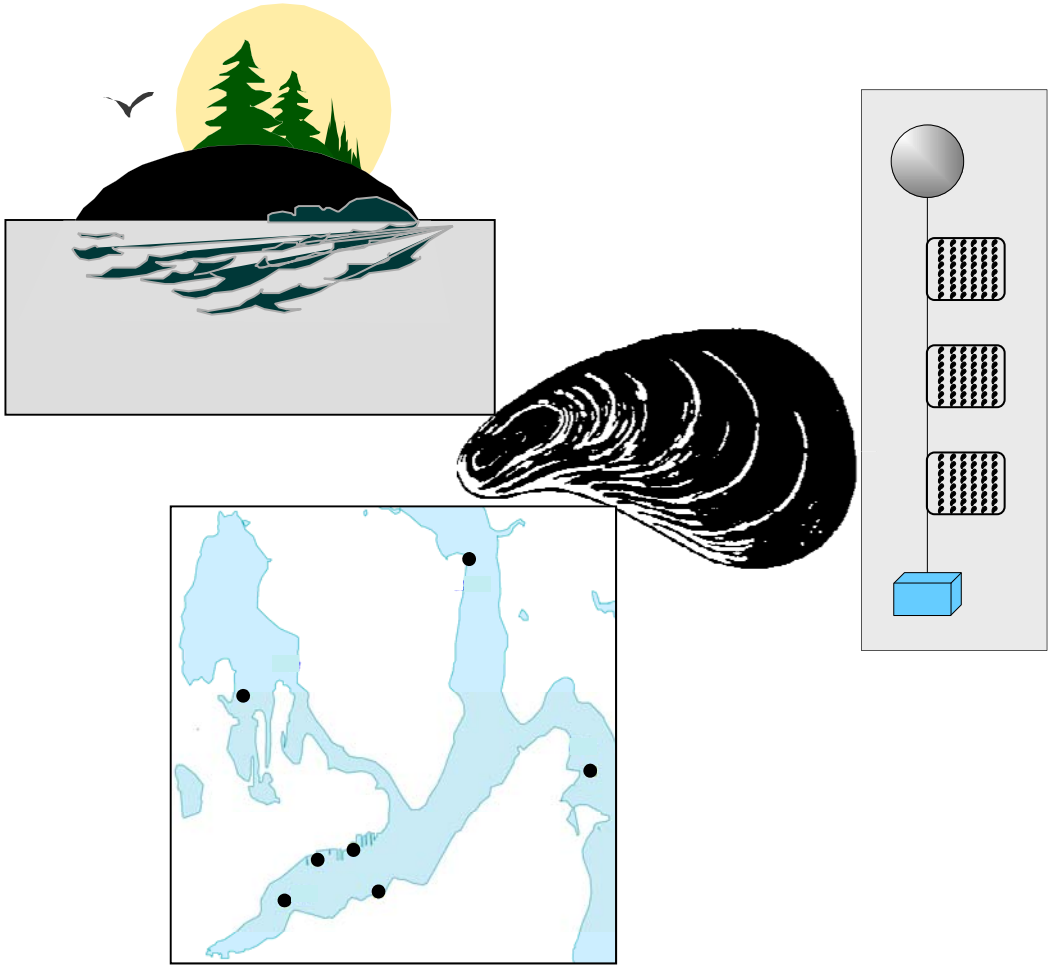
ENVVEST 2005 Caged Mussel Study:
Puget Sound Naval Shipyard & Intermediate Maintenance Facility

# Using Caged Mussels to Characterize Exposure and Effects over Small Spatial Scales in Sinclair Inlet – A Risk Assessment-Based Approach



Applied Biomonitoring

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# Using Caged Mussels to Characterize Exposure & Effects over Small Spatial Scales in Sinclair Inlet: A Risk Assessment Based Approach

A Caged Mussel Study for
Puget Sound Naval Shipyard & Intermediate Maintenance Facility Project
ENVVEST

Final Report

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LIST OF ACRONYMS

| | |
|---|---|
| A | Anthracene |
| AC | Acenaphthylene |
| AE | Acenaphthene |
| Ag | silver |
| ANOVA | Analysis of variance |
| As | arsenic |
| ASTM | American Society for Testing and Materials |
| BA | Benzo(a)anthracene |
| BAP | Benzo(a)pyrene |
| BB | Benzo(b)fluoranthene |
| BEP | Benzo(e)pyrene |
| BI | Biphenyl |
| BK | Benzo(k)fluoranthene |
| BOT | beginning-of-test |
| BP | Benzo(g,h,i)perylene |
| BTP | Bremerton Treatment Plant |
| BTPO | Bremerton Treatment Plant Outfall |
| BVNM | Brownsville North Marina |
| C | Chrysene |
| C1 | C1-Chrysenes |
| C2 | C2-Chrysenes |
| C3 | C3-Chrysenes |
| C4 | C4-Chrysenes |
| CBR | critical body residue |
| Cd | cadmium |
| CI | Confidence Interval |
| CIx | Condition Index |
| CIA | Controlled Industrial Area |
| COC | Chemical of concern |
| Cr | chromium |
| CSC | Computer Sciences Corporation |
| Cu | copper |
| D | Dibenzothiophene |
| D1 | C1-Dibenzothiophenes |
| D2 | C2-Dibenzothiophenes |
| D3 | C3-Dibenzothiophenes |
| D4 | C4-Dibenzothiophenes |
| DA | Dibenz(a,h)anthracene |
| DBF | Dibenzofuran |
| DL | detection limit |
| dw | dry weight |
| ENVVEST | Environmental Investment |
| EOT | end-of-test |
| EPA | Environmental Protection Agency |
| F | Fluorene |
| F/P1 | C1-Fluoranthenes/Pyrenes |

| | |
|---|---|
| F/P2 | C2-Fluoranthenes/Pyrenes |
| F/P3 | C3-Fluoranthenes/Pyrenes |
| F1 | C1-Fluorenes |
| F2 | C2-Fluorenes |
| F3 | C3-Fluorenes |
| FL | Fluoranthene |
| g | gram |
| GC/MS | gas chromatography/mass spectrometry |
| GPC | gel permeation column |
| GPS | global positioning system |
| GR | growth rate |
| HCH | hexachlorocyclohexane |
| HCl | hydrochloric acid |
| Hg | mercury |
| HPLC | high pressure liquid chromatography |
| HQ | Hazard quotient |
| $HQ_{tiss}$ | Hazard Quotients Tissue |
| IMF | Intermediate Maintenance Facility |
| INAV | Indigenous Naval Station |
| IP | Indeno(1,2,3-cd)pyrene |
| IPOM | Indigenous Port Orchard Marina |
| IWP | Indigenous Waterman Point |
| LEL | lower effects level |
| MCUL | minimum clean up level |
| mg | milligram |
| mm | millimeter |
| N | Naphthalene |
| N1 | C1-Naphthalenes |
| N2 | C2-Naphthalenes |
| N3 | C3-Naphthalenes |
| N4 | C4-Naphthalenes |
| ng | nanogram |
| Ni | nickel |
| NOAA | National Atmospheric and Oceanic Administration |
| NR | not retrieved |
| NSD | no significant difference |
| NS&T | National Status & Trends |
| OBDI | Ostrich Bay Dyes Inlet |
| P | Phenanthrene |
| P/A1 | C1-Phenanthrenes/Anthracenes |
| P/A2 | C2-Phenanthrenes/Anthracenes |
| P/A3 | C3-Phenanthrenes/Anthracenes |
| P/A4 | C4-Phenanthrenes/Anthracenes |
| PAHs | polyaromatic hydrocarbons |
| Pb | lead |
| PCBs | polychlorinated biphenyls |
| PEL | probable effects level |
| PER | Perylene |

| | |
|---|---|
| POM | Port Orchard Marina |
| POP | Port Orchard Passage |
| POTPO | Port Orchard Treatment Plant Outfall |
| PP DDE | para-para dichlorodiphenyldichloroethylene |
| ppb | parts per billion (= ng/g) |
| ppm | parts per million (= ug/g) |
| PSNS | Puget Sound Naval Shipyard |
| PVC | polyvinyl chloride |
| PYR | Pyrene |
| r | correlation coefficient |
| RIFS | Remedial Investigation Feasibility Study |
| ROD | Record of Decision |
| RIS | internal standard |
| RP | Rich Passage |
| SCIA | Shipyard Controlled Industrial Area |
| SEL | severe effects level |
| SI | Sinclair Inlet |
| SIRP | Sinclair Inlet Ross Point |
| SNAV | Sinclair Inlet Naval Station |
| SQRT | screening quick reference table |
| SQS | sediment quality standards |
| SSC | Space and Naval Warfare Systems Center |
| T1234CB | 1,2,3,4-Tetrachlorobenzene |
| T1245CB | 1,2,4,5-Tetrachlorobenzene |
| $T_0$ | Time Zero |
| T DDT | total Dichloro-Diphenyl-Trichloroethane |
| TEF | Toxicity equivalent factors |
| TMDL | Total maximum daily load |
| tPAHs | total PAHs |
| tPCBs | total PCBs |
| UCM | unresolved complex mixture |
| ug | microgram |
| WAWW | whole-animal wet-weight |
| WDOE | Washington Department of Ecology |
| WER | water effect ratio |
| wk | week |
| Zn | zinc |

## 1.0 EXECUTIVE SUMMARY

A caged mussel study was conducted between June and September 2005 in Sinclair and Dyes Inlet to characterize exposure and effects over small spatial scales. This study was part of an ecological risk assessment-based approach to support ongoing monitoring, assessment and modeling for the Puget Sound Naval Shipyard & Intermediate Maintenance Facility (PSNS & IMF) as part of the Project ENVVEST (Environmental Investment).

***Objectives**:* The primary purpose of this study was to establish performance targets and identify zones of influence with respect to chemical exposure and associated biological effects. The five most important questions to be answered by this study are listed below. The first three questions are exposure questions and the last two are effects questions. The short answer to each question is provided after each question and more detailed answers follow here and in the report.

- Are chemicals of concern entering Sinclair Inlet? *Yes*
- Are chemicals of concern in Sinclair Inlet biologically available? *Yes*
- Are biologically available chemicals associated with current or past discharges? *Both*
- Are these chemicals causing adverse effects? *Some may be and some may not*
- Are the chemicals associated with adverse effects related to PSNS/IMF activities? *Some may be and some may not*

***Approach***: An in-situ caged mussel study was conducted to establish performance targets and identify zones of influence with respect to chemical exposure and associated biological effects. Procedures followed the American Society for Testing and Materials (ASTM) Standard Guide (ASTM 2001) E-2122. Tissue chemistry was used to estimate chemical exposure and determine the bioavailability of selected metals and organic chemicals. Growth (i.e., changes in whole-animal wet weights (WAWWs) and soft tissue weights) were measured for three purposes: 1) to help "calibrate" tissue chemistry results; 2) to evaluate whether the caged mussels meet performance criteria for a successful test; and 3) as an effects endpoint to help determine if adverse effects are occurring as a result of exposure to site-related conditions. The following guidelines were used to interpret the data and form conclusions about exposure and effects:

*Q1. Is there evidence of exposure to the chemicals of concern (COC)?*

YES - tissue concentrations are significantly higher than beginning of test (BOT)
NO - no difference or lower than BOT

*Q2. If higher than BOT, Is there evidence of elevated exposure to the COC (e.g. potential source)?*

YES - tissue concentrations are higher than BOT and the station has significantly higher concentration of COC than other sites (belongs to statistically significant higher grouping)
NO - no difference between sites or statistically significant lower grouping

*Q3. Is there evidence of a negative biological response (to survival or growth)?*

STRONG - there is strong evidence of negative biological response because the station has a statistically significant indication of a biological impact (impaired growth or survival)
WEAK - some evidence of reduced biological function, but overall biological condition promotes growth and survival

NONE - no evidence of negative biological response; no difference between sites or statistically significant grouping with higher growth response

*Q4. Is there evidence of a potential ecological effect?*

NEGLIGIBLE - the tissue residue is less than conservative "no effect" threshold
LOW - the tissue residue is greater than or equal to most conservative "no effect" threshold but less than the less conservative "no effect" threshold
MEDIUM - tissue residue exceeds “no effect” thresholds but less than “low effect” thresholds
HIGH - the tissue residue is greater than or equal to "low effect" benchmark/threshold

The above questions were answered for each station and sum of Toxic Units (sum HQ) used to derive a risk interpretation based on the data obtained from the study.

While the caged mussel bioassay provides the most direct method of quantifying chemical exposure and associated biological effects over space and time, the effects questions are difficult to answer. Others have used four generic questions to direct monitoring and assessment activities: 1) Are contaminants entering the system? 2) Are contaminants bioavailable? 3) Is there a measurable response? 4) Are contaminants causing this response? (Aquatic Effects Technology Evaluation (AETE) 1997, Borgmann 2000).

Even with a weight-of-evidence and multiple lines of evidence approach it was difficult to provide the final answer to the effects questions. The primary lines of evidence for effects were provided by direct measurements of growth and comparisons of measured tissue chemistry with their respective threshold body residues associated with biological effects in other studies. It should be acknowledged that there is a certain degree of uncertainty associated with these tissue residue benchmarks and this approach is relatively new compared to water and sediment quality guidelines. Nevertheless, this does not mean that the more established guidelines are more environmentally relevant. In fact, there is a growing body of evidence suggesting that the tissue quality guidelines are more closely related to real-world conditions (Salazar and Salazar 2006). Furthermore, tissue residue guidelines are being developed as part of the new sediment evaluation framework for freshwater environments in the Pacific Northwest (US Army Corps of Engineers, 2009), and have been applied to the Portland Harbor Superfund Site (Shepard 2009). This is an emerging approach in other jurisdictions as well.

We relied heavily on tissue chemistry values measured as part of this study and compared them with other studies to validate the range of concentrations measured. We also relied on sediment concentrations measured as part of this and other studies to validate those and to compare with appropriate benchmarks for sediment. For most chemicals measured in caged mussel tissues and sediment, the values were below established benchmarks.

***Results***: Survival was generally between 66 and 100% among replicated cages at the stations. Significant differences in survival were found between the Shipyard Controlled Industrial Area (SCIA) and Sinclair Inlet Naval Station (SNAV) only. No differences were found among the other stations. Mussel growth, based on the six growth metrics, was similar for SCIA, Sinclair Inlet Ross Point (SIRP) and Port Orchard Marina (POM). Mussels at these three stations had growth rates that were significantly lower than those at Port Orchard Passage (POP) and Ostrich Bay Dyes Inlet (OBDI). Growth of mussels at SNAV was intermediate between these two groups.

Considering all metals measured in this study, tissue chemistry concentrations were generally highest at SCIA and lowest at OBDI. While concentrations of these metals were highest at SCIA, most measurements were below those associated with adverse effects shown in other studies and measurements in other studies. Tissue chemistry content was generally lowest at SIRP and highest at

OBDI. For the transplanted mussels, the trends shown on the concentration graphs were similar on the content graphs for mercury (Hg), lead (Pb), chromium (Cr), total polyaromatic hydrocarbons (tPAH), and total polychlorinated biphenyls (tPCB), with some minor exceptions within some of the graphs. The relative rankings of the stations for concentration were very different from the rankings for content. Whereas the concentration data show that mussels deployed at OBDI accumulated the least amount of chemicals and those at SCIA accumulated the most, the content data show that mussels at SIRP had the lowest amount of chemicals per animal, while those at OBDI had the most. For the indigenous mussels, the relative rankings of the stations [Indigenous Port Orchard Marina (IPOM), Indigenous Waterman Point (IWP), and Indigenous Naval Station (INAV)] was similar for both concentration and content (i.e., INAV highest, IPOM lowest), except for copper (i.e., IWP highest, IPOM lowest).

***Conclusions***: Based on an ecotoxicological interpretation of the data, the risk assessment framework, and CBRs the following conclusions can be made from this study:

· There was no indication of risk from silver, chromium, copper, nickel, zinc, and PAH exposure in Sinclair Inlet. However, PAH critical body residues may be too low based on recent studies and a growing body of evidence suggesting that the UCM, which is not routinely quantified in monitoring studies such as the 2005 caged mussel study, may represent a significant source of toxicity. Instead of the CBR for scope for growth we used to normalize effects on mussels of 2,250, the CBR could be as low as 500 to 750 ng/g dw. Measured concentrations of PAH are within this range only at SCIA but the other stations within Sinclair Inlet are approaching these lower CBR concentrations. We are most confident in the copper CBRs because there is so much information available for copper toxicity to marine mussels.

· There was no indication of risk from lead exposure and any exposure to lead is probably not affecting mussel growth. There may be a source of lead in the vicinity of SCIA, but tissue concentrations are well below the CBR to be of immediate concern.

· There was no indication of risk from mercury exposure and any exposure to mercury is probably not affecting mussel growth. The outfalls at Bremerton and Port Orchard may be sources of mercury at SIRP and POM, respectively. We do not believe that the higher concentrations of mercury found at SIRP and POM are directly related to activities associated with SCIA or SNAV. The elevated concentrations in mussel tissues may be related to differences in bioavailability and/or local sources. Additional caged bivalve studies could be used to clarify these and other sources of mercury or to reject this hypothesis.

· There was evidence of risk from exposure to arsenic and a potential indication of risk for cadmium at some stations and exposure to these COC may be affecting mussel growth. However, the CBRs are probably too conservative for these metals. Nevertheless, since arsenic and cadmium have been identified as potential risk stressors in other studies, more focusedresearch should be conducted to clarify the potential risk associated with arsenic and cadmium which we identified as potential risks at caged mussel studies in Sinclair Inlet, Dyes Inlet, and the Port Orchard Passage.

· tPCBs were not found to be a risk at any stations except SCIA where concentrations in tissues were associated with adverse effects on mussel growth. When contaminant levels exceed tissue residue benchmarks for growth it is likely that the chemical exposure may have contri¬buted to the reduced growth observed along with other factors. Additional work is needed to relate the concentrations measured in mussel tissues and sediment to potential effects on other species in the overall risk assessment. An extensive amount of monitoring has been conducted on fish in Sinclair Inlet and these data could be used as a starting point (Johnston et al 2007).

· The differences in chemical exposure and effects endpoints we measured at SCIA and SNAV were statistically significant. This demonstrates the importance of small spatial scales in the Inlet as part of the overall risk assessment. Other caged mussel studies have demonstrated that stations can be significantly different in terms of exposure and effects when separated by as little as 2 meters vertical distance and a few hundred meters in horizontal distance. This demonstrates the folly of attempting to use a single station to characterize an entire water body such as Sinclair Inlet or even to characterize the PSNS/IMF complex. The 2005 caged mussel study showed that SNAV and SCIA were very different in terms of exposure and effects, even though they are only separated by 1100 meters. Additional studies will be required to conduct an adequate ecological risk assessment of the PSNS/IMF complex. It is also important to note that statistically significant differences do not always translate to environmentally

significant differences. That involves another level of complexity to a complete and more integrated ecological risk assessment beyond the scope of this report.

· SIRP and POM are unexpectedly high in both sediment and tissue concentrations of several metals. These results may be attributed to several factors, including depositional areas of Sinclair Inlet, high concentrations of COC in treatment plant outfalls at Bremerton and Port Orchard, and marina activities.

· The data suggest sediment as a source for some chemicals, sediment and water as sources for others and primarily water for other chemicals. The 2005 caged mussel study was not designed to categorically differentiate differences in exposure pathways for each chemical because there was insufficient replication. Nevertheless, replication of mussel cages at various depths could establish these pathways of exposure more clearly. Similarly, strategic transplants along suspected chemical gradients could more clearly identify sources.

## 2.0 INTRODUCTION

The Sinclair Inlet Puget Sound Naval Shipyard (PSNS) & Intermediate Maintenance Facility (IMF) have undergone increased scrutiny because of new environmental regulations requiring monitoring and assessment of copper discharged from the facility. As a result, the Space and Naval Warfare Systems Center (SSC), San Diego, has developed a comprehensive monitoring and assessment plan for the surface waters adjacent to PSNS/IMF. Copper is a contaminant of concern at all Navy sites due to its widespread use as an antifouling paint, presence in facility discharges, and potential toxicity at low concentrations. PSNS/IMF has recently been required to quantify potential exposure and effects associated with its copper discharges. The study has helped assess the potential impacts of copper on surface waters, sediment, and biota by utilizing a caged mussel field bioassay conducted in-situ. This approach is important because it helps bridge the gap between traditional laboratory testing and field monitoring. This caged mussel study will help establish links between laboratory toxicity tests and field sampling of wild fish to assess their health and abundance in the area. Links will be established by making similar biomarker measurements in both caged mussels and fish as well as using copper bioaccumulation in mussels to quantify biologically available copper. Deploying caged mussels along suspected chemical gradients in Sinclair Inlet, Dyes Inlet, Port Orchard, and Rich Passage has helped distinguish copper inputs from PSNS/IMF, Dyes Inlet, Port Orchard, and Rich Passage (Figure 1).

### 2.1 Study Objectives

The overall goal of the 2005 PSNS/IMF caged mussel study was to develop risk assessment based performance targets to aid in developing management plans and cleanup priorities. The general study objectives were to evaluate potential exposure and biological effects related to chemicals associated with the PSNS/IMF complex, and distinguish these from other sources using a risk assessment based approach. Exposure was characterized by measuring biologically available chemicals in tissues of caged mussels strategically placed along suspected chemical gradients from suspected sources. Effects were characterized by measuring mussel growth rates. These data can be used to help establish links between potential exposure and effects in laboratory toxicity tests, caged mussel bioaccumulation and growth, and biochemistry of indigenous fish, indigenous mussels and caged mussels.

The specific objective of the 2005 PSNS/IMF caged mussel study was to characterize chemical exposure and associated biological effects and establish “zones of influence” over small spatial scales within Sinclair Inlet. Results of this study will help answer the following key questions:

- Are chemicals of concern entering Sinclair Inlet?
- Are these chemicals biologically available?
- Are these chemicals causing adverse effects?
- Are the chemicals associated with adverse effects related to PSNS/IMF activities?
- Are biologically available chemicals associated with current or past discharges?

### 2.2 Report Focus and Organization

This report summarizes the methods used to conduct the study, the results, and conclusions on copper exposure and associated effects based of mussel tissue chemistry and growth and other supporting evidence (% lipids, % water, condition index). This report is divided into six sections. An Executive Summary is provided in Section 1. Section 2, the Introduction, describes pertinent background information and identifies project objectives. Section 3 describes the study methods, including the experimental design and specific methods used in conducting the in-situ field study. Results are

provided in Section 4. Section 5 is the discussion of test results and compares data among stations. References are provided in Section 6.

## 3.0 SUMMARY OF STUDY METHODS

The transplant methodology used for the in-situ caged mussel study was based on procedures described in the American Society for Testing and Materials (ASTM) Standard Guide (ASTM 2001). In summary, tissue chemistry was used to estimate chemical exposure and determine the bioavailability of selected metals and organic chemicals. Growth (i.e., changes in whole animal wet weights (WAWWs) and soft tissue weights) were measured for three purposes: 1) to help "calibrate" tissue chemistry results; 2) to evaluate whether the caged mussels meet performance criteria for a successful test; and 3) as an effects endpoint to help determine if adverse effects are occurring as a result of exposure to site-related conditions. The ASTM Standard Guide suggests that if mussels lose more than 20% of their tissue weight that tissue chemistry results will have a high degree of uncertainty. This criterion was used for both the interpretation of tissue chemistry data and determining if the test met standardized performance criteria. In addition, it is necessary to know if the mussel tissue mass increased or decreased during the study so that the apparent "increases" or "decreases" of chemicals in tissues are appropriately attributed to bioavailable chemicals and not to changes in tissue mass.

### 3.1 Approach and Study Design

The caged mussel study was a collaborative effort between the PSNS/IMF, SSC San Diego, Computer Sciences Corporation (CSC), and Applied Biomonitoring. The study design consisted of collecting mussels (*Mytilus galloprovincialis*) from a relatively clean source, caging individuals of a specific measured size range, and transplanting them to each station for approximately 82 days. Mussel tissues (i.e., all soft tissues) were collected twice during the study for chemical analysis — at the beginning of the test (BOT) from a selected subset of test animals to determine background, or Time Zero ($T_0$), concentrations of chemicals and at the end of the test (EOT) from transplanted mussels to assess chemical bioavailability. A subset of mussels from each cage were used for DNA analysis, conducted by CSC personnel. In addition to measuring chemicals in deployed mussels, native mussels were collected from three of the caged mussel stations for analysis of size, condition, and DNA. Their tissues were also prepared for chemical analysis. The indigenous mussel collection sites, 2005 mussel transplant sites, treatment plant outfall sites, 2000 mussel transplant sites, and the 1996 mussel transplant sites are shown in Figure 1. The study design is summarized as follows:

- Three reference stations: Rich Passage, Port Orchard Passage, and Ostrich Bay/Dyes Inlet to evaluate potential chemical inputs from these contiguous basins
- Two PSNS/IMF stations: Shipyard CIA and Shipyard NAVSTA
- Two civilian/public high boat traffic areas: Sinclair Inlet (SI) Ross Point and SI Port Orchard Marina
- Three cages at each station, Total = 21 cages
- 56 mussels/cage
- 82-day deployment period
- Native mussels collected from three locations at end of study for tissue chemistry: Waterman Point, SI Port Orchard Marina (SN12), and Shipyard NAVSTA (P2)
- Three BOT tissue chemistry samples were prepared by compositing soft tissues from 56 mussels
- Maximum of 63 EOT tissue chemistry samples, each prepared from soft tissues of all live

mussels in a given cage, plus 9 tissue chemistry samples, prepared from soft tissues of native mussels

Mussel tissue chemistry was the measurement endpoint to estimate chemical exposure and biological availability as part of characterizing exposure. All tissues from surviving mussels in a given cage at a particular station were pooled to form one composite sample for chemical analysis. The level of replication was each composite tissue sample. To characterize effects mussel growth and supporting metrics were used as measurement endpoints, the level of replication was each individual mussel.

Several mussel metrics were used as effects indicators in a weight-of-evidence approach. These metrics also helped interpret the mussel tissue chemistry data, and were used to demonstrate that the test was successful: WAWW, shell length, growth rates based on changes in whole-animal weight and shell length, tissue weight, shell weight, percent lipids, and percent water. These mussel growth metrics have been shown to be sensitive measurement endpoints for effects, data interpretation, and test acceptability; they are relatively easy to measure, and they can be measured with a relatively high degree of accuracy and precision (ASTM 2001). Percent lipids and water were used as additional health metrics.

The following null hypotheses were developed for characterizing exposure:

- There is no significant difference in chemical concentration or content in mussel tissue when BOT is compared to EOT concentrations.
- There is no significant difference in chemical concentration or content in mussel tissue among stations.

The following null hypotheses were developed for characterizing effects using growth metrics:

- There is no significant difference in whole-animal weight or shell length among cages or stations (3 cages) at the beginning of the test.
- There is no significant change in WAWW, shell length, shell weight, or tissue weight among stations after the 82-d exposure period.
- There is no significant difference in end-of-test mussel survival, WAWW, shell length, shell weight, growth rate, or tissue weight, among stations.

Null hypotheses were tested at the 95 percent confidence level ($\alpha = 0.05$).

## 3.2 Station Locations

All stations (i.e, public, Navy, and reference) were located in Puget Sound, Washington, and limited to Dyes Inlet, Sinclair Inlet, Port Orchard, and Rich Passage (Table 1, Figures 1, 2). The Rich Passage cages were lost during the deployment period. Three cages were deployed at each station. The three reference stations were located approximately 6 miles from PSNS/IMF to eliminate any potential for mussels accumulating metals associated with shipyard activities and to estimate potential exposure and effects from copper at these locations. Estimated water depth at all stations where cages were retrieved varied between 30 and 41 feet. The station where cages were not retrieved was at a depth of 67 feet but the deployment array ended up on a slope which was parallel to substantial currents. Therefore, we do not believe that depth was a significant factor in losing these mussel cages. A random number table was used to assign cages to stations. Cages were randomly assigned to stations.

Table 1. Station locations, and cages deployed in the 2005 monitoring study.

| Station Name | NAV Code | Station Code | Acronym | Estimated Depth (ft) | Lat (°N) | Long (°W) | Cage Numbers |
|---|---|---|---|---|---|---|---|
| Rich Passage | M1 | CMUS1 | RP | 67 | 47.587 | 122.536 | 2, 13, 22 |
| Port Orchard Passage | M2 | CMUS2 | POP | 41 | 47.609 | 122.591 | 6, 17, 19 |
| Ostrich Bay Dyes Inlet | M6 | CMUS3 | OBDI | 30 | 47.601 | 122.676 | 5, 7, 21 |
| SI Port Orchard Marina | SN12 | CMUS4 | POM | 35 | 47.547 | 122.637 | 11, 16, 23 |
| SI Ross Point | M4 | CMUS5 | SIRP | 34 | 47.545 | 122.657 | 1, 9, 18 |
| Shipyard CIA | P3 | CMUS6 | SCIA | 38 | 47.557 | 122.638 | 4, 8, 14 |
| Shipyard NAVSTA | P2 | CMUS7 | SNAV | 37 | 47.553 | 122.652 | 10, 15, 24 |
| Beginning of Test | $T_0$ Chems | na | BOT | na | na | na | 3, 12, 20 |
| Waterman Point | IN-WP | IMUS1 | IWP | na | 47.585 | 122.571 | na |
| PSNS/IMF NAVSTA (P2) | IN-P2 | IMUS2 | INAV | na | 47.553 | 122.652 | na |
| POM (P12) Nav Buoy | IN-P12 | IMUS3 | IPOM | na | 47.546 | 122.632 | na |
| Brownsville North Marina (2000 Study) | na | na | BVNM | na | 47.657 | 122.613 | na |
| RIFS 488 (1996 Study) | na | na | na | 28 | 47.547 | 122.664 | na |
| RIFS 489 (1996 Study) | na | na | na | 35 | 47.549 | 122.650 | na |
| RIFS 490 (1996 Study) | na | na | na | 38 | 47.549 | 122.638 | na |
| RIFS 491 (1996 Study) | na | na | na | 50 | 47.555 | 122.631 | na |

na = not applicable

Table 1 also contains the lat/long coordinates for the 2005 caged mussel stations, which were positioned using global positioning system (GPS) and line-of-site methods, the coordinates for the indigenous mussels collected as part of this study, and coordinates for other caged mussel studies conducted in the area. To assist in retrieval at each station, a drag line was attached to the anchor holding the three replicate cages (Figure 3). Coordinates are also shown for other caged mussel studies conducted in the area where the tissue chemistry and growth results are relevant to this study. The North Brownsville Marina was used as a region-wide PAH assessment for potential and relative impacts of herring in the Cherry Point Reach (Applied Biomonitoring 2001). Caged mussels were also deployed at five stations as part of the remedial investigation/field study (RIFS; URS 1994) conducted in 1994, and four of these five were located in Sinclair Inlet adjacent to PSNS. The relative distances between monitoring stations is shown in Table 2. The main difference between the 1994 and 2005 studies is that the caged mussels were mainly outside of the pier influence in the RIFS and inside the piers in 2005. As a result the concentrations of most chemicals were much lower in the RIFS than in 2005. Interestingly, the concentrations of polyaromatic hydrocarbons (PAHs) and other chemicals measured at the Brownsville North Marina in (BVNM) 2000 were similar to those measured at the shipyard in 2005.

Table 2. Relative distances from SCIA to other test stations and other relevant sites.

| From | To | Miles | From | To | Miles |
|---|---|---|---|---|---|
| SCIA | SNAV | 0.7 | SNAV | RIFS 489 | 0.28 |
| SCIA | POM | 0.7 | POM | RIFS 490 | 0.15 |
| SCIA | SIRP | 1.2 | SIRP | RIFS 488 | 0.36 |
| SCIA | IWP | 3.7 | SCIA | RIFS 491 | 0.39 |
| SCIA | POP | 5.0 | | | |
| SCIA | OBDI | 5.6 | | | |
| SCIA | BVNM | 7.3 | | | |

## 3.3 Schedule

Mussel cages were deployed on June 22, 2005 and retrieved after 82 days on September 12, 2005. The in-situ mussel study was conducted according to the following schedule:

- June 20, 2005: Mussels collected from Taylor United Shellfish Farm by Applied Biomonitoring, sorted into 1-mm size groups, and transported to the US Environmental Protection Agency (EPA) Laboratory, Manchester, Washington. Mussels, held in mesh bags, were suspended from the floating dock and held under ambient conditions for 18 hours.
- June 21, 2005: Measurement and distribution of mussels to compartmentalized mesh bags; removal of soft tissues for beginning-of-test background tissue chemistry measurements. Compartmentalized mesh bags containing mussels attached to polyvinyl chloride (PVC) frames; mooring lines attached to cages. Caged mussels suspended from the floating dock for approximately 12 hours.
- June 22, 2005: Mussels deployed at all stations.
- September 12, 2005: Mussels retrieved from all stations except Rich Passage (Station 1) and suspended from the floating dock.
- September 13, 2005: End-of-test measurements and tissue removal on all mussels. Native mussels collected, measured, and tissues removed for chemical analysis.

## 3.4 Mussel Collection

The Mediterranean mussel (*Mytilus galloprovincialis*) was selected as the test species because 1) it is commonly cultured in Puget Sound, has a widespread geographical distribution, and data across these large geographic areas can be compared, 2) of the ease of obtaining sufficient numbers of test species from a relatively clean source, 3) its lengthy historic and continued use as a test species in monitoring studies conducted by other researchers in other parts of the world, and 4) historical data available for mussels regarding the uptake of metals and effects from metal exposure. 5) *M. galloprovincialis* is a spring spawner, and would not spawn during the summer/fall test period. 6) Unlike the native *M. trossulus*, *M. galloprovincialis* does not suffer from high summer mortality associated with neoplasia.

Naturally-set and grown mussels were harvested from a Taylor United culture raft in Totten Inlet, south Puget Sound on June 20, 2005. Cultured mussels were selected over wild mussels because tissues of cultured mussels are less likely to be contaminated, and the mussels will be less fouled because of their relatively rapid growth. In addition, the time for collection and sorting is significantly reduced because cultured mussels are more readily available in large numbers and less time is required to clean mussel shells because of less fouling. Once the mussels were removed from the culture raft, they were placed in buckets and kept in the shade until sorted.

## 3.5 Mussel Sorting and Distribution

Mussels were sorted shore side at the Taylor United Mussel Farm in Totten Inlet. Shell length (longest axis, from the anterior end near the beak to the leading posterior end, as determined with vernier calipers) was used to select mussels for this study. The initial sorting process took place immediately after collection on June 20, 2005, and required approximately 4 hours. A 10 ft. x 10 ft. sunshade was used to protect the mussels and researchers from heat, and precipitation. Periodically during the sorting process, mussels that were already assigned to size groups were put into mesh bags and submerged in the intertidal zone to minimize anaerobic metabolism and heat stress. Mussels were sorted into 1-mm size increments; all mussels between 45 and 55 mm shell length were retained. Mussels in the 45- to

55-mm size range were selected for this study because this range represents a compromise between the smallest mussels with the highest growth rates and the largest mussels with the most tissue for chemical analysis. After the pre-sort, the number of mussels per each size category was determined (Table 3). Mussels in the 49 to 53 mm size range were used to initiate the study because this size range had the maximum number of animals and the greatest potential for reducing variability in growth and tissue weights. The overall size range was less than 10 mm, which is necessary to minimize variability in growth rate and accumulation of chemicals.

Table 3. Number of mussels in each 1-mm size group measured during the initial sort.

| | | | | | Length & number of mussels used in this study | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| Number | 87 | 112 | 191 | 244 | 316 | 292 | 361 | 287 | 266 | 200 | 101 |

After a sufficient number of mussels was collected, the mussels were placed in mesh bags with each size group in one bag. The bags of sorted mussels were placed in ice chests containing wet ice and transported by van to the US EPA Laboratory, Manchester, Washington, where the bagged mussels were suspended from a floating dock in ambient seawater for approximately 18 hours.

BOT shell length was measured to the nearest 0.1 mm with electronic vernier calipers and BOT WAWW to the nearest 0.01 g with a portable electronic balance. Mussels were distributed among tubular nylon mesh bags on June 21, 2005, following methods provided in the standardized ASTM procedures (ASTM 2001). All measurements, caging, and tissue extraction occurred in a large storage building provided by US EPA. Measurements began at approximately 0800 hrs with the 49-mm mussels and proceeded sequentially with larger size groups until all the bags were filled. To ensure an even distribution, mussels for BOT tissue chemistry were selected and placed in compartmentalized trays at the same time and in the same manner as those distributed among the mesh bags. Four bags of mussels were prepared for each cage, with 14 mussels per bag. Ambient water collected in the vicinity of the floating pier where the mussels had been suspended was used to hold mussels during the measurement process and water temperature maintained with ice in plastic bags. Due to the potential stress of elevated temperatures during the measurement process, water was changed frequently and fresh bags of ice added to maintain water temperature. Unmeasured mussels were held in ice chests containing wet ice until needed for distribution. Two teams of three persons each made the final mussel measurements and distributed the mussels to the mesh bags. Only live animals that were fully closed, or those that closed immediately upon light physical stimulation were used. The measurement data were recorded electronically into an Excel spreadsheet on a portable computer.

Mussels sacrificed for BOT tissue chemistry measurements were selected weighed and measured as if they were going into bags, but instead of placing them in the mesh bags these mussels were placed in compartmentalized boxes and held until tissue removal and measurement of each tissue and shell. Compartmentalized boxes were used to maintain the order of mussels after length and weight measurements. After all length and weight measurements were made and prior to deployment, an Analysis of Variance (ANOVA) was used to confirm no statistical difference in size distribution among cages or stations and the BOT reference mussels. Results of the ANOVA by cage and by station are summarized in the results section.

## 3.6 Mesh Bags and PVC Cages

Tubular mesh bags (approximately 4" in diameter and 6' long; 0.25" mesh size) made from thin nylon filament were used to hold the mussels on the sorting rack. Four bags were prepared for each cage, and each bag contained 14 mussels, adjusted within the mesh bag to fit between the longest dimension of the PVC frame. Nylon cable ties were used to separate mussels and create the individual cells. The mesh netting facilitated water circulation and ensured a more even exposure to environmental conditions; sufficient space was provided between cable ties to permit valve opening, growth, and movement by each animal. The "one animal per cell" approach was used to permit measuring growth effects on an individual-by-individual basis. A colored bead, which provided an easy way to identify bag number, and a plastic label identifying both cage and bag number were attached to each bag. A random number table was used to assign cages to stations.

A complete cage consisted of bagged mussels attached to PVC frame and surrounded with predator mesh (i.e., heavy plastic mesh with a 3/8" mesh size). Four mesh bags were attached to each PVC frame (approximately 19" x 40"). The loose ends of the mesh bags were tied to the PVC frame, and the knot was secured with 6" nylon cable ties. At each station, one temperature monitor was attached to the side of one of the replicate PVC frames. Each PVC frame supporting four mussel bags was wrapped with predator mesh to protect the mussels during transportation and deployment, and to discourage predation by crabs and starfish during deployment. The completed cages were suspended from the floating dock and held overnight.

On June 22, 2005, the cages, buoys, and anchors were attached to the deployment lines while aboard the US Navy work boat prior to deployment at each station. Cages were attached to these lines in transit or upon arrival at each station.

## 3.7 Deployment

Deployment began on June 22, 2005 at approximately 0900 hrs and was completed by 1430 hrs. All cages were deployed from a small US Navy work boat. Three cages were deployed at each station. Concrete blocks were used to secure the cages in place (Figure 3). The caged mussels were deployed in the water column so the bottom of the cages were approximately 1, 2, and 3 m above the bottom.

## 3.8 Baseline Tissue Weight, Shell Weight and Tissue Chemistry

By random assignment, three groups of mussels that would have been distributed to mesh bags for deployment were put into separate compartmentalized trays and used to determine baseline (i.e., BOT) tissue weights, shell weights, and tissue chemistry. In addition to making WAWW and shell length measurements on these individuals, their tissues were removed. Complete methods for tissue extraction and dissection are given in Section 3.11. The empty shells were also weighed. These tissue and shell weights were used to estimate BOT tissue and shell weights for mussels deployed in the field. Tissue and shell weights of the deployed mussels could not be measured at the start of the test because these measurements are destructive. Three composite tissue samples were prepared for chemical analysis, each containing soft tissues from 56 mussels.

## 3.9 Mussel Retrieval

The mussel cages were retrieved on September 12, 2003. All cages except the three deployed in Rich Passage (Station 1) were retrieved. While aboard the deployment vessel, the cages were detached from the mooring line by cutting the cable ties woven through the three-strand polypropylene line. The cages were transported to the US EPA Laboratory, Manchester, and suspended from the floating dock overnight. The EOT measurements were made the following day. Prior to making the EOT measurements, the mussel bags were removed from the PVC frame and placed in an ice chest containing wet ice for holding.

## 3.10 EOT Mussel Measurements

All EOT measurements were made on September 13, 2005, beginning at approximately 0730 hrs at the same facility used to conduct BOT measurements. EOT measurements, which were made on a cage-by-cage basis, began by removing the mussels from the mesh bags and placing them in compartmentalized trays. Mussels with broken shells or those that did not close upon light physical stimulation were considered dead. Each live mussel was measured for WAWW and shell length prior to tissue removal. Soft tissue extraction followed the same procedure used at the beginning of the test, as described in Section 3.11. Shell weight measurements were made on all live mussels. Compartmentalized cages were used to maintain the order of mussels during measurement, shucking, and weighing of tissues and shells, and to permit calculation of individual growth rates.

Six mussels from each cage were reserved for the biomarker measurements (Steinert 2006). These mussels were measured for length and WAWW prior to extracting tissues for biomarker measurements. No tissue or shell weight measurements were made on these individuals. Biomarker measurements were made as part of an associated study (Steinert 2006).

## 3.11 Collection and Preparation of Bivalve Tissues for Chemical Analysis

Tissues were removed according to procedures in ASTM (2001). All instruments used in tissue extraction were made of ceramic or stainless steel to minimize possible contamination. Ceramic knives (Kyocera®) were used for dissection to facilitate removing soft tissues; stainless steel knives were only used to sever the adductor muscle. All instruments and surfaces were thoroughly and "chemically" cleaned according to the following process before shucking: wash with Liquinox® (a soap-free cleaning solution), rinse with hot tap water, rinse with distilled water, rinse with 5% hydrochloric acid (HCl). All instruments were re-cleaned after shucking all live mussels in a given cage. Gloves were not worn as the contribution of contaminants from hands is minimal (B. LaSorsa, PNNL or Pacific Northwest National Laboratory, Sequim WA, personal communication) and gloves become slippery during tissue extraction increasing the opportunity for staff to cut themselves. Shucking staff washed hands thoroughly with Liquinox® and rinsed with distilled water before shucking mussels from a new cage. Tissue extraction began by severing the adductor muscle with a stainless steel knife. Excess liquid was drained from tissues prior to weighing. Once the soft tissues from a given mussel were removed, the tissues were placed inside the mussel's shell and aligned on a holding tray until they were weighed. All tissues from mussels in a given cage were pooled to form a composite sample for chemical analysis. All sample containers were provided by Battelle Marine Sciences Laboratory. Tissue weights were recorded electronically by the computer. Tissue samples were placed in a freezer within one hour of collection, and kept frozen until sample analysis. The individual shells were weighed after all tissues from mussels in a given cage were shucked, weighed, and composited.

## 3.12 Mussel Tissue Chemistry

Chemical analyses were conducted by Battelle Marine Sciences Laboratory, Sequim, Washington. Tissue samples were extracted for PAH following general National Atmospheric and Oceanic Administration (NOAA) National Status and Trends (NS&T) methods. For this analytical batch of tissue samples, 15 - 30 g of tissue was spiked with surrogates and extracted three times with methylene chloride using tissuemizer and shaker table techniques. The combined extract was dried over anhydrous sodium sulfate, concentrated, processed through alumina cleanup column, concentrated, and further purified by a gel permeation column (GPC) and high pressure liquid chromatography (HPLC). The post HPLC extract was concentrated, fortified with internal standard (RIS) and submitted for analysis. Extracts intended for PAH analysis were analyzed using gas chromatography/mass spectrometry (GC/MS), following Battelle SOP 5-157. Sample data were quantified by the method of internal standards, using the RIS compounds. The concentration (i.e., the ratio of the weight of chemicals to the weight of the tissue sample) of each chemical was reported by the laboratory in terms of wet weight. The mass fraction of tissue solids (i.e., percent solids) was also determined by the Battelle Marine Sciences Laboratory.

Dry weight (dw) conversions were made according to the following formula:

$Concentration_{dry}$ = ($concentration_{wet}$) / (percent solids as decimal equivalent; e.g. 20% as 0.20)

Although concentration is most commonly used metric because of its toxicological significance, content (i.e., the mass of chemical per whole animal, nanogram (ng)/mussel) provides a method for normalizing the effects of tissue growth on diluting the chemicals within tissues. In general, increases in content are related to increases in biomass. The chemical content was determined in order to normalize the expression of chemical uptake per unit time by eliminating the effects of growth on changing tissue masses. The concentration of chemicals can change dramatically depending on the amount of tissue added or lost during the deployment period. However, by expressing chemical uptake on a content basis and comparing beginning and end of test content, it is possible to determine whether there was any increase or decrease in the chemical mass without interference from tissue mass. Chemical content was determined according to the following formula [gram (g), microgram (ug)]:

Content (ug/mussel) = ($Tissue\ weight_{g\text{-}dry}$ * $Concentration_{ug/g\text{-}dry}$)

where

$Tissue\ weight_{g\text{-}dry}$ = ($tissue\ weight_{g\text{-}wet}$) * (percent solids as decimal equivalent; e.g. 20% as 0.20)

## 3.13 Data Analysis & Presentation

The data from the caged mussel study was statistically analyzed to determine whether mussels accumulated significant amounts of chemicals compared to baseline tissue chemistry, and whether exposure to site conditions had an adverse effect on mussel growth. Statistical analyses were conducted on all mussel parameters measured at the end of the test (survival, whole-animal wet-weight, and tissue weight) and the tissue chemistry data. Descriptive statistics, such as mean and standard deviation, were also calculated for these parameters.

### *3.13.1 Bioaccumulation Data*

EOT tissue concentration and content data were compared against the baseline BOT data to determine if there was uptake of chemicals during the exposure period. An ANOVA was used to make these comparisons. EOT tissue chemistry concentration and content data by location (i.e., shallow stations and

deep stations) were also compared using an ANOVA and the Turkey-Kramer multiple comparison test. The convention of replacing non-detects with a "0" was used during analysis of the PAH and polychlorinated biphenyl (PCB) data. The total PCBs (tPCBs) as reported by Battelle were used in this analysis. They calculated total PCBs as: 2 x (sum of individual congener concentrations).

Hazard quotients (HQs) were calculated for individual metals and organics as:

HQ = tissue concentration / critical body residue,

where critical body residue equals the concentration associated with adverse acute and chronic effects in other studies. The total risk was estimated for each station by summing the individual HQs.

### *3.13.2 Survival and Mussel Growth Metrics*

Potential effects from exposure to chemicals were assessed by evaluating survival, comparing 82-d mussel metrics to BOT measurements, and comparing both survival and changes in mussel metrics across stations.

The Simes method (Piegorsch and Bailer 1997) was used to evaluate differences in survival among stations because it allows greater flexibility in multiple comparisons among binomial populations than the traditional contingency table approach. Survival was calculated as initial number deployed minus number dead, with initial number reflecting only the number of mussels deployed in the actual cages retrieved (i.e., mussel cages not retrieved were not included in the initial “n”). For this study, dead mussels were defined as those where empty shells or shells with decaying tissue were found. Mussels that did not close after light physical stimulation were also considered dead.

Six metrics were used to assess relative growth and estimate animal health: shell length, WAWW, wet tissue weight, shell weight, shell length growth rate, and WAWW growth rate. Only WAWW and shell length were measured for each individual at the start of the test because they are non-destructive measurements. Therefore, growth rates based on the change (i.e., increase or decrease) over time could only be determined for these two metrics. Growth rates were determined for each individual mussel that survived and mean growth rates by station were calculated from these individual measurements. Growth rates for individual mussels were calculated as [milligram (mg), week (wk)]:

Growth Rate (mg/wk) = (EOT Measurement - BOT measurement)/time,
where time = 82 days (11.7 weeks).

Changes in tissue and shell weights after the deployment period were estimated from BOT measurements. There was no significant difference in either tissue weight ($p = 0.055$) or shell weight ($p = 0.058$) among the three replicates used to determine beginning of test tissue weight, shell weight, and tissue chemistry. Because of the similarity among the three BOT replicates and the even size distribution among all 21 cages at the start of the test, it was assumed that the mean tissue weight and shell weight calculated for the BOT surrogates also applied to the deployed mussels. Based on this assumption, the EOT tissue weights and shell weights were compared to the BOT estimate and evaluated for statistical differences among stations as were the EOT shell lengths and WAWWs. Any differences between EOT and BOT were assumed to have occurred during the test period.

Condition indices (CIx) were calculated as:

CIx = EOT tissue weight / EOT shell weight.

Descriptive summary statistics (e.g., mean and standard error, standard deviation) were calculated for all growth metrics. The descriptive statistics were used to prepare tables and graphs showing the overall mean, plus or minus the 95% confidence interval (95% CI) for the population mean, by station for each parameter measured. The 95% CIs were determined using an Excel® function based on desired alpha, the standard deviation, and population size. The 95% CIs are a quick metric for evaluating relative differences among stations. The following statistical analyses were performed on EOT survival and growth data to test the hypotheses listed in Section 3.1:

| Hypothesis ($H_0$: There is no significant...): | Statistical Process (a = 0.05): |
|---|---|
| • Difference in whole-animal weight or shell length among cages or among stations at the beginning of the test. | • ANOVA |
| • Change in mussel metrics after the 82-d exposure period at any station (compare BOT to EOT) | • For WAWW and shell length, paired t-test. For tissue weight and shell weight, ANOVA and Dunnett's multiple comparison test |
| • Difference in mussel survival among stations after 82 days | • Simes Binomial Multiple Comparison |
| • Difference in mussel whole-animal wet weight, shell length, shell weight, growth rate, tissue weight, % lipids or % water among stations | • One-way ANOVA, Tukey-Kramer multiple comparison test |

GraphPad InStat (GraphPad Software, San Diego California), a statistical software package, was used for all data analyses. This program automatically checks for normality using the Kolmogorov Smirnov test and common variances using Bartlett's test prior to running either the parametric ANOVA or the non-parametric Kruskal-Wallis equivalent. Non-parametric tests were used if the data failed to meet the normality or common variance requirements. The program also selects the appropriate multiple comparison test to identify where those differences occurred (i.e., Tukey-Kramer for parametric analyses and Dunn's Multiple Comparison Test for non-parametric analyses). All statistical analyses were run at the 95 percent confidence level ($\alpha = 0.05$).

An ANOVA was used to compare EOT tissue and shell weight measurements for each cage to the BOT tissue weight and shell weight measurements made on the sacrificed individuals, followed by Dunnett's multiple comparison test. Dunnett's compares all data sets to a single value (i.e., the BOT baseline). To compare EOT measurements to BOT for WAWW and shell length, t-tests were run on a cage-by-cage basis comparing the individual measurements made at the end-of-test to those made at the beginning. It was not possible to evaluate for changes in tissue and shell weights because no BOT measurements were made on individual mussels for these metrics; baseline measurements were destructive and could not be made on the mussels deployed in the field.

Mussel growth results based on shell length and whole-animal wet-weight generally provide the most accurate assessment of effects on growth because these measurements are paired for individual mussels. However, when growth rates are low or when other factors control a particular metric, tissue or shell weight may be more useful for station comparisons. Tissue weight and shell weight represent a

comparison between EOT measurements on individual mussels and a BOT estimate determined by measuring these parameters on a separate group of mussels at the beginning of the test that were within the same size range as mussels deployed.

### *3.13.3 Water Temperature*

Water temperature was measured to help understand the bioaccumulation and growth results and to determine if there were any differences among stations that could be attributed to temperature. Maximum, minimum, mean, and range in water temperature were calculated for each station. Water temperature profiles based on all the data collected during the field deployment were used to identify trends in water temperature. To reduce variability and autocorrelation in the temperature data for statistical analyses, the temperature series for each station was reduced to average daily temperatures. The following null hypotheses were tested for stations where a temperature probe was retrieved:

| Hypothesis ($H_0$: There is no significant...): | Statistical Process (a = 0.05): |
|---|---|
| • difference in daily average temperatures among stations | • ANOVA, Turkey-Kramer multiple comparison test |
| • difference in daily temperature ranges among stations | • ANOVA, Turkey-Kramer multiple comparison test |

*Testing for Differences in Daily Average Temperature*

Daily average temperatures were also calculated for each station. These data did not meet the requirements for a parametric analysis (i.e., failed to meet the assumptions of common variances or normality). Therefore, differences in daily average temperatures among stations were determined using the Kruskal-Wallis Test (a = 0.05). Dunn's Multiple Comparison Test was used to identify which stations were statistically similar and associated with homogeneous groupings.

*Testing for Differences in Temperature Range*

For each station, the minimum and maximum daily temperatures were first determined, then the minimum temperature was subtracted from the maximum temperature to determine the range in daily temperature. These data did not meet the requirements for a parametric analysis (i.e., failed to meet the assumptions of common variances or normality). Therefore, the daily temperature ranges among stations were statistically analyzed using the Kruskal-Wallis Test (a = 0.05). Dunn's Multiple Comparison Test was used to identify which stations were significantly different.

## 4.0 RESULTS

Results are presented in the following order: Survival, growth, and bioaccumulation. In the context of this study, growth metrics are used for three different purposes: 1) as an effects endpoint; 2) to help "calibrate" bioaccumulation; and 3) to compare with established standards for a successful or acceptable test. The relative contribution of each metal by station, on a total concentration (ug/g dw) basis and on a total mass (ug/animal) basis (content), provide the best overview of the tissue chemistry results. They show the chemical gradients, or lack thereof, or potential sources. The bioaccumulation results will include most priority pollutants, but copper will be emphasized because of total maximum daily load issues and regulatory implications. All tissue chemistry results are presented in terms of dry weight.

Analyzing the data on a content basis helps normalize increases or decreases in tissue mass during the deployment period. Important inferences can be made with respect to the environmental significance of the relative tissue burdens through this normalization process. Important inferences can also be made by comparing tissue burdens with associated growth metrics such as changes in WAWW and tissue weights.

## 4.1 Data Quality Review

The ASTM standard guide (ASTM 2001) suggests that two criteria be used to determine bioaccumulation data acceptability: 1) There should be no significant loss in tissue weight during the exposure period; and 2) If survivors have not lost significant tissue mass, a survival criterion of >45% may be acceptable to interpret the bioaccumulation data.

Outliers were determined by performing the Grubbs' test (also called the extreme studentized deviate; GraphPad Software, http://www.graphpad.com/quickcalcs/Grubbs1.cfm). Two distinct outliers were found in the dataset: one survival value (17.9% at POP) and one chromium value (2.250 ug/g dw at POM). One silver value (0.0699 ug/g dw at OBDI) was borderline with a z-value of 1.14 ($z_{crit}$ = 1.15). It was considered an outlier because it met the Excel criterion of being greater than the mean $\pm$ 4SD. Therefore, the one survival data point and two tissue chemistry data points were excluded from the data analyses.

All mussels except six had positive increases in WAWW and/or shell length during the exposure period. Based on the appearance of internal tissues, most tissues appeared normal with the presence of reproductive tissues in most individuals. All mussel growth data are considered usable for the purpose of this report. No mussel growth data were considered outliers and none were excluded from the data set.

## 4.2 Mussel Survival

Survival by individual cage ranged from a low of 17.9% in one of the POP cages to a high of 100% in one of the SCIA cages. The extremely low survival in the one POP cage was attributed to starfish preying on the caged mussels. Even though the mussels were surrounded by heavy duty plastic mesh, starfish and crabs were able to reach the mussels within this cage. It is unclear why this cage had such a large amount of predators within the protective mesh while the other cages did not.

By excluding the 17.9% outlier (as described above), mean survival for mussels deployed at the POP station was 91.1% (95% CI = 3.5%). Using these data, mean survival by station ranged from 83.3% at SCIA to 94.6% at SNAV (Table 4; Figure 4). Survival was generally consistent within a station. At SCIA, survival was 66.1, 83.9, and 100% for the three cages. This was the only station with such variability in survival among cages. It should be remembered that the cages were at slightly different depths.

Only one statistically significant difference in survival was found (Table 5A); survival at SCIA was significantly lower than survival at SNAV. This provides the first piece of evidence that there may be a difference in environmental conditions at the two shipyard stations. Nevertheless, the high variability at SCIA suggests that other unmeasured factors could have affected survival here as well.

Table 4. Percent survival by individual cage and mean by station.

| Station: | RP | POP | OBDI | SIPOM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|---|---|
| Cage 1 | NR | 89.3% | 91.1% | 80.4% | 85.7% | 66.1% | 92.9% |
| Cage 2 | NR | 17.9%* | 92.9% | 89.3% | 89.3% | 83.9% | 96.4% |
| Cage 3 | NR | 92.9% | 92.9% | 94.6% | 92.9% | 100.0% | 94.6% |
| Station **0** | na | 91.1%* | 92.3% | 88.1% | 89.3% | 83.3% | 94.6% |
| Overall Mean Survival = 89.8% | | | | | | | |

NR = cage not retrieved
na = not applicable
* = data for Cage 2 excluded from station mean (highlighted value)

Table 5A. Results of Simes Multiple Comparison Test on survival data.
(Outlier at Station 2 Excluded from Analysis)

$H_0$: No significant difference between stations. Reject $H_0$ if Pc < Pt.

| ***Comparisons*** | ***Simes-corrected Critical P Pc*** | ***Calculated test statistic Pt*** | ***Result*** |
|---|---|---|---|
| POP vs OBDI | 0.7346 | 0.0333 | NSD |
| POP vs POM | 0.4391 | 0.0286 | NSD |
| POP vs SIRP | 0.6343 | 0.0310 | NSD |
| POP vs SCIA | 0.0651 | 0.0095 | NSD |
| POP vs SNAV | 0.2948 | 0.0214 | NSD |
| OBDI vs POM | 0.2189 | 0.0167 | NSD |
| OBDI vs SIRP | 0.3647 | 0.0238 | NSD |
| OBDI vs SCIA | 0.0182 | 0.0048 | NSD |
| OBDI vs SNAV | 0.4101 | 0.0262 | NSD |
| POM vs SI RP | 0.7435 | 0.0357 | NSD |
| POM vs SCIA | 0.2446 | 0.0190 | NSD |
| POM vs SNAV | 0.0428 | 0.0071 | NSD |
| SIRP vs SCIA | 0.1373 | 0.0143 | NSD |
| SIRP vs SNAV | 0.0869 | 0.0119 | NSD |
| SCIA vs SNAV | 0.0018 | 0.0024 | Significant Difference |

NSD = no significant difference

Table 5B. Multiple Range Test Results

| Station: | RP | SCIA | POM | SIRP | POP | OBDI | SNAV |
|---|---|---|---|---|---|---|---|
| | NR | 83.3% | 88.1% | 89.3% | 91.1% | 92.3% | 94.6% |

NR = not retrieved

The results of the multiple range test are shown as Table 5B. Underlined stations are similar and the companion test shows that differences in mussel survival between SCIA and SNAV were statistically significant.

## 4.3 Mussel Growth

Analysis of all growth metrics measured in this study and subsequent ranking of these metrics, showed that mussel growth was highest at OBDI and lowest at SCIA (Tables 6, 7). Each station was ranked on the performance of each mussel growth parameter, with 1 being the lowest performance and 6 being the

highest (Table 7). These ranks were summed for each station for an overall estimate of mussel performance. The sum of ranks ranged from 9 at SCIA to 36 at OBDI. The results of the rankings are shown below in rank order, from lowest (SCIA), to highest (OBDI). This overall assessment of mussel performance shows that performance by metric was fairly consistent across stations. Mussels performed best at OBDI and poorest SCIA. Mussel performance at SNAV was nearly equal to that at POP, one of the "reference" stations.

A non-parametric statistical analysis was used to test for groupings among stations. Results of this analysis shows two fairly distinct groupings, with the exception of placement of Station SNAV. SNAV (sum of ranks = 24) was found to be a part of both the "low" and "high" performance groups.

### *4.3.1 Shell Length*

At the start of the test, shell lengths for individual mussels ranged from 49.0 to 53.9 mm, a range of 4.9 millimeters (mm; Table 6). Mean initial shell length for all stations was 51.3 mm. There was no statistically significant difference in mean shell lengths among mussels in individual cages ($p = 0.8935$) or among mussels at all stations ($p = 0.4178$) at the beginning of the test.

There was a significant increase in shell length at all stations ($p < 0.0001$), with an average increase in shell length across all stations of approximately 7 mm. EOT shell lengths for individual mussels ranged from 49.6 to 76.8 mm (Table 6). Mean EOT shell length by station ranged from 58.0 mm at SIRP to 60.1 mm at OBDI (Table 6, Figure 5A). The mean percentage increase in shell length across stations ranged from 13% at SCIA to 17.4% at OBDI (Table 6, Figure 5B).

Although the overall difference in mean EOT shell length among stations was not large (i.e., approximately 2 mm), there were several significant differences among stations ($p < 0.0001$). The stations are shown below in ascending order of shell length. Stations with statistically similar EOT shell lengths are grouped together with an underline. Two general groups were identified: SIRP, SCIA, and POM formed one group and SNAV and OBDI formed a second. Shell length at POP was similar to all other stations and was statistically part of both groups. Shell lengths at SNAV and OBDI were statistically greater than those at SIRP, SCIA, and POM.

| | SIRP | SCIA | POM | POP | SNAV | OBDI |
|---|---|---|---|---|---|---|
| Mean EOT Shell Length (mm): | 58.0 | 58.1 | 58.1 | 58.7 | 59.5 | 60.1 |

EOT length growth rates by station ranged from 0.56 mm/wk at POM and SCIA to 0.74 mm/wk at OBDI (Table 6; Figure 5C). Although the overall difference in length growth rates among stations was not large (i.e., approximately 0.18 mm/wk), there were several significant differences in length growth rates among stations ($p < 0.0001$). The stations are shown below in ascending order of length growth rates. Stations with statistically similar growth rates are grouped together with an underline. Two general groups were identified: SCIA, POM, and SIRP forming one group and SNAV and OBDI forming a second. Length growth rates at POP were similar to all other stations except OBDI. Length growth rates at SNAV and OBDI were statistically greater than those at SCIA, POM, and SIRP.

| | SCIA | POM | SIRP | POP | SNAV | OBDI |
|---|---|---|---|---|---|---|
| Mean Length Growth Rate (mm/wk): | 0.57 | 0.58 | 0.59 | 0.64 | 0.70 | 0.76 |

Table 6. Summary of mussel growth metrics for transplanted mussels.
(No data are shown for RP because cages from this location were lost and not retrieved.)

| | POP | OBDI | POM | SIRP | SCIA | SNAV | Mean All Stations* | $T_0$ |
|---|---|---|---|---|---|---|---|---|
| Percent Survival | 66.7% | 92.3% | 88.1% | 89.3% | 83.3% | 94.6% | 85.7% | na |
| % Change Weight | 67.3% | 83.1% | 58.4% | 60.3% | 54.1% | 66.5% | 65.1% | na |
| % Change Shell Length | 14.6% | 17.4% | 13.2% | 13.4% | 13.0% | 15.9% | 14.6% | na |
| Est % Change Tissue Wt | 56.6% | 71.7% | 37.8% | 41.1% | 25.8% | 33.7% | 44.1% | na |
| Est % Change Shell Wt | 82.8% | 96.8% | 66.7% | 65.8% | 70.6% | 78.9% | 76.8% | na |
| ***Initial Weight (g-wet)*** | | | | | | | | |
| Mean | 12.12 | 12.13 | 12.32 | 12.10 | 12.13 | 12.15 | 12.15 | 12.07 |
| Min | 9.60 | 8.45 | 9.05 | 8.93 | 9.21 | 9.17 | 8.45 | 9.12 |
| Max | 15.94 | 15.34 | 16.41 | 15.96 | 15.33 | 15.53 | 16.41 | 15.84 |
| StDev | 1.28 | 1.23 | 1.43 | 1.33 | 1.25 | 1.27 | 1.30 | 1.38 |
| N | 168 | 168 | 168 | 168 | 168 | 168 | 1344 | 168 |
| 95% CI | 0.193 | 0.186 | 0.216 | 0.201 | 0.188 | 0.192 | 0.070 | 0.209 |
| ***EOT WAWW (g-wet)*** | | | | | | | | |
| Mean | 20.18 | 22.18 | 19.53 | 19.31 | 18.82 | 20.15 | 20.05 | na |
| Min | 13.59 | 11.43 | 11.95 | 9.02 | 12.66 | 10.97 | 9.02 | na |
| Max | 26.76 | 30.74 | 27.94 | 28.35 | 28.27 | 29.52 | 30.74 | na |
| StDev | 2.60 | 3.51 | 3.05 | 3.27 | 2.76 | 3.36 | 3.31 | na |
| N | 112 | 155 | 148 | 150 | 140 | 159 | 864 | na |
| 95% CI | 0.48 | 0.55 | 0.49 | 0.52 | 0.46 | 0.52 | 0.22 | na |
| ***WAWW Growth Rate (mg/wk)*** | | | | | | | | |
| Mean | 671 | 836 | 597 | 603 | 548 | 668 | 656 | na |
| Min | 233 | -46 | 100 | -183 | 140 | -8 | -183 | na |
| Max | 1156 | 1472 | 1123 | 1334 | 1078 | 1278 | 1472 | na |
| StDev | 207 | 268 | 207 | 231 | 193 | 246 | 246 | na |
| N | 112 | 155 | 148 | 150 | 140 | 159 | 864 | na |
| 95% CI | 38 | 42 | 33 | 37 | 32 | 38 | 16 | na |
| ***Initial Shell Length (mm)*** | | | | | | | | |
| Mean | 51.29 | 51.22 | 51.34 | 51.16 | 51.23 | 51.31 | 51.27 | 51.24 |
| Min | 49.01 | 49.02 | 49.00 | 49.00 | 49.00 | 49.03 | 49.00 | 49.01 |
| Max | 53.80 | 53.81 | 53.89 | 53.86 | 53.87 | 53.92 | 53.97 | 53.92 |
| StDev | 1.35 | 1.38 | 1.34 | 1.33 | 1.28 | 1.36 | 1.34 | 1.30 |
| N | 168 | 168 | 168 | 168 | 168 | 168 | 1344 | 168 |
| 95% CI | 0.20 | 0.21 | 0.20 | 0.20 | 0.19 | 0.21 | 0.07 | 0.20 |
| ***EOT Shell Length (mm)*** | | | | | | | | |
| Mean | 58.69 | 60.12 | 58.13 | 58.03 | 58.10 | 59.45 | 58.78 | na |
| Min | 51.00 | 49.63 | 49.83 | 50.10 | 50.59 | 50.42 | 49.63 | na |
| Max | 67.27 | 76.83 | 67.02 | 70.19 | 64.58 | 68.36 | 76.83 | na |
| StDev | 3.11 | 4.34 | 3.44 | 3.61 | 2.98 | 3.95 | 3.72 | na |
| N | 112 | 155 | 148 | 150 | 140 | 159 | 864 | na |
| 95% CI | 0.58 | 0.68 | 0.55 | 0.58 | 0.49 | 0.61 | 0.25 | na |
| ***Length Growth Rate (mm/wk)*** | | | | | | | | |
| Mean | 0.64 | 0.76 | 0.58 | 0.59 | 0.57 | 0.70 | 0.64 | na |
| Min | 0.10 | -0.01 | -0.05 | -0.04 | 0.04 | 0.01 | -0.05 | na |
| Max | 1.41 | 2.16 | 1.28 | 1.58 | 1.26 | 1.41 | 2.16 | na |
| StDev | 0.26 | 0.36 | 0.28 | 0.28 | 0.26 | 0.32 | 0.30 | na |
| N | 112 | 155 | 148 | 150 | 140 | 159 | 864 | na |
| 95% CI | 0.05 | 0.06 | 0.04 | 0.04 | 0.04 | 0.05 | 0.02 | na |

| | POP | OBDI | POM | SIRP | SCIA | SNAV | Mean All Stations* | $T_0$ |
|---|---|---|---|---|---|---|---|---|
| ***EOT Wet Tissue Weight (g-wet)*** | | | | | | | | |
| Mean | 6.83 | 7.50 | 6.02 | 6.16 | 5.50 | 5.84 | 6.30 | 4.37 |
| Min | 3.65 | 2.53 | 2.87 | 3.76 | 2.35 | 1.90 | 1.90 | 2.50 |
| Max | 10.21 | 13.38 | 10.59 | 10.40 | 8.56 | 10.37 | 13.38 | 7.19 |
| StDev | 1.40 | 1.84 | 1.50 | 1.55 | 1.04 | 1.39 | 1.62 | 0.84 |
| N | 102 | 138 | 133 | 132 | 127 | 142 | 774 | 168 |
| 95% CI | 0.27 | 0.31 | 0.26 | 0.26 | 0.18 | 0.23 | 0.11 | 0.13 |
| ***EOT Shell Weight (g-wet)*** | | | | | | | | |
| Mean | 6.33 | 6.77 | 5.74 | 5.70 | 5.87 | 6.16 | 6.09 | 3.44 |
| Min | 3.72 | 3.98 | 4.04 | 3.95 | 4.16 | 3.10 | 3.10 | 2.50 |
| Max | 8.95 | 9.73 | 8.70 | 8.55 | 10.75 | 8.86 | 10.75 | 6.51 |
| StDev | 0.93 | 1.02 | 0.78 | 0.82 | 0.86 | 0.89 | 0.96 | 0.50 |
| N | 103 | 137 | 133 | 132 | 127 | 141 | 773 | 168 |
| 95% CI | 0.18 | 0.17 | 0.13 | 0.14 | 0.15 | 0.15 | 0.07 | 0.08 |
| ***Percent Solids*** | | | | | | | | |
| Mean | 22.2 | 24.8 | 21.9 | 22.3 | 22.0 | 22.7 | 22.7 | 23.8 |
| ***Percent Lipids*** | | | | | | | | |
| Mean | 1.57 | 1.82 | 1.44 | 1.36 | 1.46 | 1.48 | 1.52 | 1.44 |
| ***Condition Index*** | | | | | | | | |
| Mean | 1.10 | 1.11 | 1.05 | 1.08 | 0.946 | 0.943 | 1.03 | 1.28 |

*$T_0$ values not included in Mean All Stations calculations

Table 7. Ranking Table based on growth metrics
(1 = lowest performance; 6 = highest performance).
Statistically similar stations are grouped by an underline.

| | SCIA | SIRP | POM | SNAV | POP | OBDI |
|---|---|---|---|---|---|---|
| Shell Length | 2 | 1 | 3 | 5 | 4 | 6 |
| Length GR | 1 | 3 | 2 | 5 | 4 | 6 |
| WAWW | 1 | 2 | 3 | 4 | 5 | 6 |
| WAWW GR | 1 | 3 | 2 | 4 | 5 | 6 |
| Tissue Weight | 1 | 4 | 3 | 2 | 5 | 6 |
| Shell Weight | 3 | 1 | 2 | 4 | 5 | 6 |
| ***Sum Ranks*** | ***9*** | ***14*** | ***15*** | ***24*** | ***28*** | ***36*** |
| | ***Low Performance High Stress*** | | | ***Part of both groups*** | ***High Performance Low Stress*** | |

GR = growth rate

### *4.3.2 Whole-Animal Wet-Weight (WAWW)*

At the start of the test, WAWW for individual mussels ranged from 8.45 to 16.41 g-wet, a range of 7.96 g-wet (Table 6). Mean initial WAWW among stations ranged from 12.1 to 12.3 g-wet. There was no statistically significant difference in mean WAWWs among mussels in individual cages ($p = 0.997$) or among mussels at all stations ($p = 0.670$) at the beginning of the test.

There was a significant increase in WAWW at all stations ($p < 0.0001$), with an average increase in WAWW across all stations of approximately 7.9 g-wet. EOT WAWW for individual mussels ranged from

9.02 to 30.74 g-wet (Table 6). Mean EOT WAWW by station ranged from 18.82 g-wet at SCIA to 22.18 g-wet at OBDI (Table 6, Figure 6A), a difference of only 3.4-g (wet). The mean percentage increase in WAWW across stations ranged from 54.1% at the SCIA to 83.1% at OBDI (Table 6; Figure 6B).

Although the difference in mean EOT WAWWs was 3.4 g, there were several statistical differences among the stations. The stations are shown below in ascending order of WAWW. Stations with statistically similar EOT WAWWs are grouped together with an underline. WAWWs at OBDI were significantly higher at than any of the other stations, while WAWWs at SCIA, were significantly lower than Station SNAV, POP, and OBDI.

| | SCIA | SIRP | POM | SNAV | POP | OBDI |
|---|---|---|---|---|---|---|
| Mean EOT WAWW (g-wet): | 18.8 | 19.3 | 19.5 | 20.1 | 20.2 | 22.2 |

EOT WAWW growth rates by station ranged from 548 mg/wk at SCIA to 836 mg/wk at OBDI (Table 6; Figure 6C). The stations are shown below in ascending order of WAWW growth rate. Stations with statistically similar WAWW growth rates are grouped together with an underline. The statistical groupings are the same as for WAWW, with WAWW growth rates at OBDI significantly higher at than any of the other stations, and WAWW growth rates at SCIA significantly lower than SNAV, POP, and OBDI.

| | SCIA | POM | SIRP | SNAV | POP | OBDI |
|---|---|---|---|---|---|---|
| Mean WAWW Growth Rate (mg/wk): | 548 | 597 | 603 | 668 | 671 | 836 |

### *4.3.3 Wet Tissue Weights*

Mean whole soft tissue weight at the start of the test was estimated at 4.37 g-wet (Table 6) based on the tissue weights from the 168 baseline BOT measurements. Based on this BOT value, mean whole soft tissue weights increased at all stations during the 82-day exposure period. Mean EOT wet tissue weights by station ranged from 5.50 g-wet at SCIA, to 7.5 g-wet at OBDI (Table 6, Figure 7A). The percentage change in wet tissue weight across stations ranged from 25.8% at SCIA to 71.7% at OBDI and a mean of 44% (Table 6; Figure 7B).

There was a significant increase in tissue weight at all stations ($p < 0.0001$) when compared to the BOT tissue weights. There were several statistically significant differences among stations in EOT tissue weights. The stations are shown below in ascending order of EOT tissue weight. Stations with statistically similar tissue weights are grouped together with an underline. Tissue weights at POP and OBDI were significantly higher at than any of the other stations, and tissue weights at SCIA were significantly lower than SIRP.

| | SCIA | SNAV | POM | SIRP | POP | OBDI |
|---|---|---|---|---|---|---|
| Mean EOT Tissue Weight (g-wet): | 5.50 | 5.84 | 6.02 | 6.16 | 6.83 | 7.50 |

### *4.3.4 Shell Weight*

Mean shell weight at the start of the test was estimated at 3.44 g-wet (Table 6) based on the shell weights from the 168 baseline BOT measurements. Based on this BOT value, mean shell weights increased at all stations during the 82-day exposure period. Mean EOT shell weights by station ranged

from 5.70 g-wet at SIRP to 6.77 g-wet at OBDI (Table 6, Figure 8A). The percentage change in shell weight across stations ranged from 65.8% at SIRP to 96.8% at OBDI (Table 5; Figure 8B).

There was a significant increase in shell weight at all stations ($p < 0.0001$) when compared to the BOT shell weights. There were several statistically significant differences among stations in EOT shell weights. The stations are shown below in ascending order of EOT shell weight. Stations with statistically similar shell weights are grouped together with an underline. EOT shell weights at Station 3 (OBDI) were significantly higher than at all other stations except Station 2 (POP). EOT shell weights at Stations SIRP, POM and SCIA were statistically similar, and significantly lower than all other stations.

| | SIRP | POM | SCIA | SNAV | POP | OBDI |
|---|---|---|---|---|---|---|
| Mean EOT Shell Weight (g-wet): | 5.70 | 5.74 | 5.87 | 6.16 | 6.33 | 6.77 |

### *4.3.5 Percent Lipids*

Mean percent lipids at the start of the test was estimated at 1.44% (Table 6) based on the analysis of the three composite BOT tissue samples. At the end of the test, percent lipids ranged from 1.36% at SIRP to 1.82% at OBDI (Figure 9). There was a significant change only at OBDI in percent lipids during the deployment period based on this BOT value as an estimate for all deployed mussels ($p = 0.0122$). At the end of the test, percent lipids in mussels deployed at OBDI were significantly higher than those at SIRP and POM ($p = 0.0171$). There was no significant difference among mussels at the other stations.

| | | | | | | | * |
|---|---|---|---|---|---|---|---|
| | BOT | SIRP | POM | SCIA | SNAV | POP | OBDI |
| Mean Percent Lipids: | 1.44 | 1.36 | 1.44 | 1.46 | 1.48 | 1.57 | 1.82 |

* = significantly different than BOT

### *4.3.6 Percent Solids in Whole Soft Tissues*

Mean percent solids at the start of the test was estimated at 23.8% (Table 6) based on the analysis of the three composite BOT tissue samples. At the end of the test, percent solids ranged from 21.9% at POM to 24.8% at OBDI (Figure 10). There was no significant change in percent solids during the deployment period based on this BOT value as an estimate for all deployed mussels ($p = 0.1691$). Similarly, there was no significant difference at the end of the test in percent solids among the deployed mussels ($p = 0.2373$). It is interesting to note that both percent solids and percent lipids were highest at OBDI.

| | BOT | POM | SCIA | POP | SIRP | SNAV | OBDI |
|---|---|---|---|---|---|---|---|
| Mean Percent Solids: | 23.8 | 21.9 | 22.0 | 22.2 | 22.3 | 22.7 | 24.8 |

### *4.3.7 Condition Index*

Condition Indices (CIx), calculated as tissue weight divided by shell weight, were determined for each station. Mean CIx at the start of the test was estimated at 1.28 (Table 6) based on the analysis of the three composite BOT tissue samples. At the end of the test, CIx ranged from 0.943 at SNAV to 1.11 at OBDI (Figure 11). At the end of the test, the CIx was significantly lower at all stations compared to the BOT value estimated for all deployed mussels ($p < 0.0001$). It is interesting to note that, percent solids, percent lipids, and CIx were highest at OBDI.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | SIRP | POP | POM | SCIA | SNAV |
| Condition Index: | 1.28 | 1.11 | 1.08 | 1.05 | 1.05 | 0.946 | 0.943 |

* = significantly different than BOT

### *4.3.8 Indigenous Mussels*

Indigenous mussels were collected from three areas to compare tissue chemistry with the caged mussels. A different number of mussels were collected from each location because of the variability in mussel density at each indigenous mussel sampling station (Table 8). Mussels from IWP had a mean shell length of 39.7 mm and mean WAWW of 10.6 g-wet (Table 8). Mussels from INAV had a mean shell length of 33.2 mm and mean WAWW of 4.1 g-wet. Mussels from IPOM had a mean shell length of 24.3 mm and mean WAWW of 1.64 g-wet. All available mussels (up to a total of 30 for each composited tissue sample) were measured and the tissues removed for analysis. The condition indices calculated for the indigenous mussels were: 0.62 at IPOM, 0.70 at IWP, and 0.80 at INAV.

The differences in mussel metrics between the indigenous and transplanted specimens are shown in Figure 5A for shell length, Figure 6A for WAWW, Figure 7A for tissue weight, Figure 8A for shell weight, Figure 9 for percent lipids, Figure 10 for percent solids, and Figure 11 for condition index.

## 4.4 Mussel Tissue Chemistry

Considering all metals measured in this study, tissue chemistry concentrations were generally highest at SCIA and lowest at OBDI (Table 9). While concentrations of these metals were highest at SCIA, most measurements were below those associated with adverse effects shown in other studies and measurements in other studies. No data are shown in Table 9 for Rich Passage (Station 1) because none of the cages were retrieved from this location. Tissue chemistry content was generally lowest at SIRP and highest at OBDI. For the transplanted mussels, the trends shown on the concentration graphs were similar on the content graphs for mercury, lead, chromium, total polyaromatic hydrocarbons(tPAH), and total polychlorinated biphenyls (tPCB), with some minor exceptions within some of the graphs. The relative rankings of the stations for concentration were very different from the rankings for content. Whereas the concentration data show that mussels deployed at OBDI accumulated the least amount of chemicals and those at SCIA accumulated the most, the content data show that mussels at SIRP had the lowest amount of chemicals per animal, while those at OBDI had the most. For the indigenous mussels, the relative rankings of the stations was similar for both concentration and content (i.e., INAV highest, IPOM lowest), except for copper (i.e., IWP highest, IPOM lowest).

Table 8. Growth metrics for indigenous mussels.

| | IWP | INAV | IPOM | Mean Indigenous | Mean Transplants | Ratio T/I |
|---|---|---|---|---|---|---|
| ***WAWW (g-wet)*** | | | | | | |
| Mean | 11.32 | 8.27 | 7.71 | 9.10 | 20.05 | 2.20 |
| Min | 6.71 | 1.44 | 1.88 | | | |
| Max | 21.29 | 22.37 | 48.96 | | | |
| StDev | 2.95 | 4.97 | 6.14 | | | |
| N | 69 | 38 | 90 | | | |
| 2SE | 0.70 | 1.58 | 1.27 | | | |
| ***Shell Length (mm)*** | | | | | | |
| Mean | 47.91 | 42.02 | 39.60 | 43.2 | 58.8 | 1.36 |
| Min | 38.80 | 22.74 | 24.74 | | | |
| Max | 60.40 | 61.67 | 74.85 | | | |
| StDev | 4.60 | 10.02 | 8.63 | | | |
| N | 69 | 38 | 90 | | | |
| 2SE | 1.09 | 3.19 | 1.78 | | | |
| ***Wet Tissue Weight (g-wet)*** | | | | | | |
| Mean | 3.12 | 2.39 | 2.13 | 2.55 | 6.30 | 2.47 |
| Min | 1.24 | 0.44 | 0.10 | | | |
| Max | 6.11 | 6.89 | 14.09 | | | |
| StDev | 1.04 | 1.58 | 1.81 | | | |
| N | 69 | 38 | 87 | | | |
| 2SE | 0.24 | 0.50 | 0.38 | | | |
| ***Shell Weight (g-wet)*** | | | | | | |
| Mean | 4.49 | 2.90 | 3.46 | 3.62 | 6.09 | 1.68 |
| Min | 2.71 | 0.48 | 0.80 | | | |
| Max | 8.53 | 7.90 | 18.65 | | | |
| StDev | 1.12 | 1.77 | 2.53 | | | |
| N | 69 | 38 | 88 | | | |
| 2SE | 0.26 | 0.56 | 0.53 | | | |
| ***Mean Percent Solids*** | 21.4 | 21.0 | 24.4 | 22.3 | 22.7 | 1.02 |
| ***Mean Percent Lipids*** | 1.50 | 1.55 | 1.82 | 1.62 | 1.52 | 0.94 |
| ***Mean Condition Index*** | 0.70 | 0.80 | 0.62 | 0.70 | 1.03 | 1.47 |

Table 9. Concentration of metals (ug/g dw) measured in deployed and indigenous mussels, and percent increase above BOT for deployed mussels.

| | | | | | | | | | Indigenous | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV | IWP | INAV | IPOM |
| Cu | Rep 1 | 4.76 | 5.73 | 5.00 | 5.03 | 5.33 | 7.24 | 5.35 | 5.76 | 8.48 | 5.95 |
| | Rep 2 | 4.31 | 5.73 | 5.17 | 5.03 | 5.17 | 6.72 | 5.16 | 5.95 | 6.97 | 5.51 |
| | Rep 3 | 4.57 | 5.37 | 4.58 | 5.53 | 5.05 | 6.86 | 5.20 | 5.34 | 5.19 | 4.76 |
| | Mean | 4.55 | 5.61 | 4.92 | 5.20 | 5.18 | 6.94 | 5.24 | 5.68 | 6.88 | 5.41 |
| | 95% CI | 0.26 | 0.24 | 0.34 | 0.33 | 0.16 | 0.30 | 0.11 | 0.35 | 1.86 | 0.68 |
| | Stdev | 0.23 | 0.21 | 0.30 | 0.29 | 0.14 | 0.27 | 0.10 | 0.31 | 1.65 | 0.60 |
| % Increase above BOT: | | | 23.4% | 8.1% | 14.3% | 14.0% | 52.6% | 15.2% | na | na | na |
| Hg | Rep 1 | 0.031 | 0.076 | 0.089 | 0.210 | 0.244 | 0.110 | 0.083 | 0.086 | 0.153 | 0.113 |
| | Rep 2 | 0.027 | 0.075 | 0.081 | 0.222 | 0.229 | 0.109 | 0.085 | 0.085 | 0.133 | 0.112 |
| | Rep 3 | 0.027 | 0.062 | 0.075 | 0.218 | 0.163 | 0.106 | 0.087 | 0.080 | 0.103 | 0.106 |
| | Mean | 0.028 | 0.071 | 0.082 | 0.217 | 0.212 | 0.108 | 0.085 | 0.084 | 0.130 | 0.110 |
| | 95% CI | 0.003 | 0.009 | 0.008 | 0.007 | 0.049 | 0.003 | 0.002 | 0.004 | 0.028 | 0.004 |
| | Stdev | 0.002 | 0.008 | 0.007 | 0.006 | 0.043 | 0.002 | 0.002 | 0.003 | 0.025 | 0.004 |
| % Increase above BOT: | | | 151% | 189% | 664% | 649% | 283% | 200% | na | na | na |
| Zn | Rep 1 | 56.6 | 81.5 | 86.7 | 87.4 | 91.8 | 98.1 | 93.8 | 180 | 208 | 162 |
| | Rep 2 | 50.1 | 92.7 | 77.8 | 93.7 | 91 | 100 | 97.7 | 139 | 247 | 136 |
| | Rep 3 | 58.4 | 74.6 | 71 | 95.5 | 77.1 | 95.50 | 96.2 | 138 | 131 | 123 |
| | Mean | 55.0 | 82.9 | 78.5 | 92.2 | 86.6 | 97.9 | 95.9 | 152 | 195 | 140 |
| | 95% CI | 4.94 | 10.34 | 8.91 | 4.81 | 9.35 | 2.56 | 2.23 | 27.1 | 66.8 | 22.5 |
| | Stdev | 4.37 | 9.13 | 7.87 | 4.25 | 8.27 | 2.26 | 1.97 | 24.0 | 59.0 | 19.9 |
| % Increase above BOT: | | | 50.7% | 42.6% | 67.5% | 57.4% | 77.8% | 74.3% | na | na | na |
| As | Rep 1 | 4.87 | 8.08 | 6.74 | 7.26 | 7.44 | 8.78 | 7.82 | 7.63 | 6.73 | 6.64 |
| | Rep 2 | 4.71 | 7.86 | 6.79 | 7.41 | 6.86 | 8.77 | 7.74 | 7.70 | 7.36 | 6.18 |
| | Rep 3 | 4.88 | 7.83 | 6.41 | 7.96 | 6.60 | 7.78 | 7.47 | 6.95 | 5.05 | 5.98 |
| | Mean | 4.82 | 7.92 | 6.65 | 7.54 | 6.97 | 8.44 | 7.68 | 7.43 | 6.38 | 6.27 |
| | 95% CI | 0.108 | 0.154 | 0.234 | 0.417 | 0.487 | 0.650 | 0.208 | 0.469 | 1.351 | 0.383 |
| | Stdev | 0.095 | 0.137 | 0.206 | 0.369 | 0.430 | 0.574 | 0.183 | 0.414 | 1.194 | 0.338 |
| % Increase above BOT: | | | 64.4% | 37.9% | 56.5% | 44.5% | 75.2% | 59.3% | na | na | na |
| Cd | Rep 1 | 1.85 | 2.34 | 2.45 | 2.16 | 2.13 | 2.32 | 2.50 | 4.09 | 3.63 | 2.00 |
| | Rep 2 | 1.55 | 3.45 | 2.57 | 2.18 | 2.22 | 2.28 | 2.58 | 3.54 | 2.88 | 2.29 |
| | Rep 3 | 1.71 | 2.67 | 2.71 | 2.01 | 2.11 | 2.22 | 2.51 | 3.23 | 1.71 | 2.35 |
| | Mean | 1.70 | 2.82 | 2.58 | 2.12 | 2.15 | 2.27 | 2.53 | 3.62 | 2.74 | 2.21 |
| | 95% CI | 0.17 | 0.65 | 0.15 | 0.11 | 0.07 | 0.06 | 0.05 | 0.49 | 1.09 | 0.21 |
| | Stdev | 0.15 | 0.57 | 0.13 | 0.09 | 0.06 | 0.05 | 0.04 | 0.44 | 0.97 | 0.19 |
| % Increase above BOT: | | | 65.6% | 51.3% | 24.3% | 26.4% | 33.5% | 48.5% | na | na | na |
| Ni | Rep 1 | 0.811 | 0.93 | 0.714 | 0.774 | 0.884 | 1.13 | 0.948 | 0.834 | 0.761 | 0.867 |
| | Rep 2 | 0.729 | 1.07 | 0.682 | 0.813 | 0.648 | 1.13 | 0.882 | 0.885 | 0.565 | 0.60 |
| | Rep 3 | 0.778 | 0.729 | 0.58 | 0.813 | 0.563 | 1.10 | 0.851 | 0.884 | 0.417 | 0.57 |
| | Mean | 0.773 | 0.910 | 0.659 | 0.800 | 0.698 | 1.120 | 0.894 | 0.868 | 0.581 | 0.679 |
| | 95% CI | 0.047 | 0.194 | 0.079 | 0.025 | 0.188 | 0.020 | 0.056 | 0.033 | 0.195 | 0.185 |
| | Stdev | 0.041 | 0.171 | 0.070 | 0.023 | 0.166 | 0.017 | 0.050 | 0.029 | 0.173 | 0.164 |
| % Increase above BOT: | | | 17.7% | -14.8% | 3.5% | -9.6% | 45.0% | 15.7% | na | na | na |

| | | | | | | | | | Indigenous | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV | IWP | INAV | IPOM |
| Pb | Rep 1 | 0.216 | 0.932 | 0.860 | 0.957 | 1.490 | 1.850 | 1.240 | 0.968 | 1.880 | 1.030 |
| | Rep 2 | 0.167 | 0.795 | 0.782 | 1.180 | 1.050 | 1.730 | 1.120 | 1.030 | 1.820 | 0.841 |
| | Rep 3 | 0.190 | 0.672 | 0.637 | 1.170 | 0.763 | 1.460 | 1.010 | 0.905 | 1.030 | 0.825 |
| | Mean | 0.191 | 0.800 | 0.760 | 1.102 | 1.101 | 1.680 | 1.123 | 0.968 | 1.577 | 0.899 |
| | 95% CI | 0.028 | 0.147 | 0.128 | 0.143 | 0.414 | 0.226 | 0.130 | 0.071 | 0.537 | 0.129 |
| | Stdev | 0.025 | 0.130 | 0.113 | 0.126 | 0.366 | 0.200 | 0.115 | 0.063 | 0.474 | 0.114 |
| % Increase above BOT: | | | 319% | 298% | 477% | 476% | 780% | 488% | na | na | na |
| Cr | Rep 1 | 0.433 | 0.673 | 0.492 | 0.574 | 0.609 | 0.891 | 0.627 | 0.583 | 0.729 | 0.529 |
| | Rep 2 | 0.417 | 0.639 | 0.504 | 0.577 | 0.557 | 0.717 | 0.523 | 0.655 | 0.534 | 0.596 |
| | Rep 3 | 0.426 | 0.562 | 0.488 | 2.25* | 0.503 | 0.757 | 0.598 | 0.634 | 0.409 | 0.580 |
| | Mean | 0.425 | 0.625 | 0.495 | 0.576 | 0.556 | 0.788 | 0.582 | 0.624 | 0.557 | 0.568 |
| | 95% CI | 0.009 | 0.065 | 0.009 | 0.002 | 0.060 | 0.103 | 0.061 | 0.042 | 0.182 | 0.040 |
| | Stdev | 0.008 | 0.057 | 0.008 | 0.002 | 0.053 | 0.091 | 0.054 | 0.037 | 0.161 | 0.035 |
| % Increase above BOT: | | | 46.8% | 16.3% | 35.3% | 30.8% | 85.3% | 36.9% | na | na | na |
| Ag | Rep 1 | 0.045 | 0.029 | 0.0699* | 0.023 | 0.023 | 0.020 | 0.021 | 0.078 | 0.019 | 0.052 |
| | Rep 2 | 0.033 | 0.030 | 0.034 | 0.021 | 0.020 | 0.019 | 0.018 | 0.074 | 0.016 | 0.044 |
| | Rep 3 | 0.029 | 0.0290 | 0.026 | 0.024 | 0.019 | 0.021 | 0.018 | 0.071 | 0.013 | 0.038 |
| | Mean | 0.035 | 0.029 | 0.0230 | 0.022 | 0.021 | 0.020 | 0.019 | 0.074 | 0.016 | 0.045 |
| | 95% CI | 0.009 | 0.001 | 0.007 | 0.002 | 0.003 | 0.002 | 0.002 | 0.004 | 0.004 | 0.008 |
| | Stdev | 0.008 | 0.001 | 0.006 | 0.002 | 0.002 | 0.001 | 0.002 | 0.003 | 0.003 | 0.007 |
| % Increase above BOT: | | | -17.2% | -16.0% | -36.8% | -41.0% | -43.8% | -46.9% | na | na | na |

highlighted cells = data points considered as outliers and excluded from calculations

### *4.4.1 Copper (Cu) Concentrations in Mussel Tissues*

When comparing BOT copper concentrations with EOT concentrations, mussels at all stations accumulated significant amounts of copper in their tissues ($p < 0.0001$). There was an average increase of 21% across all stations. Increases in copper concentrations ranged from a low of 8.1% at OBDI to a high of 52.6% at SCIA. Mean copper concentrations ranged from a low of 4.92 ug/g dw (OBDI) to a high of 6.94 ug/g dw (SCIA) (Table 9, Figures 12A, 13). The average for all transplanted mussels was 5.51 ug/g dw.

At BOT, copper concentrations in the three replicates were 4.76, 4.31, and 4.57 ug/g dw (Table 9). This is a range of only 0.45 ug/g dw and shows good consistency in the measurements and confidence in the mean of 4.55 ug/g dw. The tightness of these data facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT copper concentrations among stations was not large (4.92 to 6.94 ug/g dw; a range of 2.02 ug/g dw), there were several significant differences among stations ($p < 0.0001$). The stations are shown below in ascending order of copper concentration. Stations with statistically similar EOT copper concentrations are grouped together with an underline. Three general groups were identified: BOT was a group by itself, Stations OBDI, SIRP, POM, SNAV formed one group and Stations SIRP, POM, SNAV, and POP formed a second. The only station without overlapping the two groups was SCIA, the station with the highest copper concentrations. SCIA was different from all stations. It should be remembered that although these differences might even be statistically significant, the concentrations were much lower than those associated with measured adverse effects. For copper, the station groupings based on concentration were much different than those based on content.

| | | | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | SIRP | POM | SNAV | POP | SCIA |
| Mean Cu (ug/g dw): | 4.55 | 4.92 | 5.18 | 5.20 | 5.24 | 5.61 | 6.94 |

* = significantly different than BOT

Mean copper concentrations in indigenous mussels ranged from 5.41 to 6.88 ug/g dw (Table 9, Figure 12), and were within the range measured in the transplanted mussels.

### *4.4.2 Mercury (Hg) Concentrations in Mussel Tissues*

When comparing BOT mercury concentrations with EOT concentrations, mussels at all stations accumulated significant amounts of mercury in their tissues ($p < 0.0001$). There was an average increase of 356% across all stations. Increases in mercury concentrations ranged from a low of 151% at POP to a high of 664% at SCIA. Mean mercury concentrations ranged from a low of 0.071 ug/g dw at OBDI to a high of 0.217 ug/g dw at POM (Table 9, Figures 14A, 15). The average for all transplanted mussels was 0.13 ug/g dw.

At BOT, mercury concentrations in the three replicates were 0.031, 0.027, and 0.027 ug/g dw (Table 9). This is a range of only 0.004 ug/g dw and shows good consistency in the measurements and confidence in the mean of 0.028 ug/g dw. The tightness of these data facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT mercury concentrations among stations was not large (0.071 to 0.217 ug/g dw = range of 0.146), there were several significant differences among stations ($p < 0.0001$). The stations are shown below in ascending order of mercury concentration. Stations with statistically similar EOT mercury concentrations are grouped together with an underline. Two very distinct groups were identified for EOT mercury concentrations: Stations POP, OBDI, SNAV, and SCIA formed one distinct group and Stations SIRP, and POM formed another distinct group. There was no overlap among stations in either group. Unlike copper, the two shipyard stations (SNAV and SCIA) were part of the same statistical grouping when mercury concentration was evaluated.

Interestingly, SIRP and POM, the two stations on the southern side of Sinclair Inlet opposite the shipyard, had significantly higher concentrations of mercury than the two shipyard stations. Although these differences are statistically significant, the concentrations of mercury found in mussel tissues were much lower than those associated with measured adverse effects. Nevertheless, mercury is much more toxic than copper and even small differences could potentially lead to adverse effects. Unfortunately, the tissue concentrations of mercury associated with adverse effects are not as well understood as those with copper. For mercury, the station groupings based on concentration were identical to those based on content.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | SNAV | SCIA | SIRP | POM |
| Mean Hg (ug/g dw): | 0.028 | 0.071 | 0.082 | 0.085 | 0.110 | 0.212 | 0.217 |

* = significantly different than BOT

Mean mercury concentrations in indigenous mussels ranged from 0.084 to 0.130 ug/g dw (Table 9, Figure 14), and were within the range measured in the transplanted mussels.

### *4.4.3 Zinc (Zn) Concentration in Mussel Tissues*

When comparing BOT zinc concentrations with EOT concentrations, mussels at all stations accumulated significant amounts of zinc in their tissues ($p < 0.0001$). There was an average increase of 62% across all stations. Increases in zinc concentrations ranged from a low of 42.6% at OBDI to a high of 77.8% at SCIA. Mean zinc concentrations ranged from a low of 78.5 ug/g dw at OBDI to a high of 97.9 ug/g dw at SCIA (Table 9, Figures 16A, 17). The average for all transplanted mussels was 89.0 ug/g dw.

At BOT, zinc concentrations in the three replicates were 56.6, 50.1, and 58.4 ug/g dw (Table 9). This is a range of only 7.3 ug/g dw and shows good consistency in the measurements and confidence in the mean of 55 ug/g dw. The tightness of these data facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT zinc concentrations among stations was not large (78.5 to 97.9 = range of 19.4), there were several significant differences among stations ($p < 0.0001$). Zinc concentrations at OBDI were significantly lower than at SNAV and SCIA. The stations are shown below in ascending order of zinc concentration. Stations with statistically similar EOT zinc concentrations are grouped together with an underline. Two general groups were identified for EOT zinc concentrations: Stations OBDI, POP, SIRP, and POM formed one group and Stations POP, SIRP, POM, SNAV, and SCIA formed another. Unlike copper, mussels at the two shipyard stations accumulated similar amounts of zinc. Although statistically significant differences in zinc concentrations were found among stations, the tissue concentrations of zinc were much lower than those associated with measured adverse effects. Zinc is much less toxic than copper or mercury, and the small differences in accumulation would probably not lead to adverse effects. Unfortunately, the tissue concentrations of zinc associated with adverse effects are not as well understood as those with copper. Interestingly while SCIA was the station with the highest measured concentrations of copper, both SCIA and SNAV, the two naval shipyard stations, had the highest concentrations of zinc, but not the highest zinc content.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | POP | SIRP | POM | SNAV | SCIA |
| Mean Zn (ug/g dw): | 55.0 | 78.5 | 82.9 | 86.6 | 92.2 | 95.9 | 97.9 |

* = significantly different than BOT

Mean zinc concentrations in indigenous mussels ranged from 140 to 195 ug/g dw (Table 9, Figure 16), and were higher than concentrations measured in the transplanted mussels.

### *4.4.4 Arsenic (As) Concentrations in Mussel Tissues*

When comparing BOT arsenic concentrations with EOT concentrations, mussels at all stations accumulated significant amounts of arsenic in their tissues ($p < 0.0001$). There was an average increase of 56% across all stations. Increases in arsenic concentrations ranged from a low of 37.9% at OBDI to a high of 75.2% at SCIA. Mean arsenic concentrations ranged from a low of 6.65 ug/g dw at OBDI to a high of 8.44 ug/g dw at SCIA (Table 9, Figures 18A, 19). The average for all transplanted mussels was 7.53 ug/g dw.

At BOT, arsenic concentrations in the three replicates were 4.87, 4.71, and 4.88 ug/g dw (Table 9). This is a range of only 0.17 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 4.82 ug/g dw. The tightness of these data facilitated detecting statistically significant differences

between BOT and EOT arsenic concentrations.

Although the overall difference in mean EOT arsenic concentrations among stations was not large (6.65 to 8.44 ug/g dw = range of 1.79), there were several significant differences among stations (p = 0.0005). The stations are shown below in ascending order of arsenic concentration. Arsenic concentrations at OBDI were significantly lower than at SNAV, POP, and SCIA. Similarly, concentrations at SIRP were significantly lower than at SCIA. Stations with statistically similar EOT arsenic concentrations are grouped together with an underline. Three groups were identified for EOT arsenic concentrations with much overlap among the groups. Unlike copper, mussels at the two shipyard stations, SNAV and SCIA, and at the POP station accumulated similar amounts of arsenic. The tissue concentrations of arsenic were all above concentrations associated with adverse effects.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | SIRP | POM | SNAV | POP | SCIA |
| Mean As (ug/g dw): | 4.82 | 6.65 | 6.97 | 7.54 | 7.68 | 7.92 | 8.44 |

* = significantly different than BOT

Mean arsenic concentrations in indigenous mussels ranged from 6.27 to 7.43 ug/g dw (Table 9, Figure 18), and were within the range measured in the transplanted mussels.

### *4.4.5 Cadmium (Cd) Concentrations in Mussel Tissues*

When comparing BOT with EOT concentrations, mussels at POP, OBDI, SCIA, and SNAV accumulated significant amounts of cadmium (p = 0.001); mussels at POM and SIRP did not. There was an average increase of 42% across all stations. Increases in cadmium concentrations ranged from a low of 24.3% at POM to a high of 65.6% at POP. Mean cadmium concentrations ranged from a low of 2.12 ug/g dw at POM to a high of 2.82 ug/g dw at POP (Table 9, Figures 20A, 21). The average for all transplanted mussels was 2.41 ug/g dw. The relatively large error bars associated with measurements at POP and the indigenous mussels represent a larger spread in measurements at these stations. For mussels deployed at POP, the EOT cadmium concentrations in the individual tissue replicates were 2.34, 2.67, and 3.45 ug/g dw, a difference of 1.11 ug/g dw. The range in cadmium concentrations at the other caged mussel stations was from 0.08 to 0.26 ug/g dw.

At BOT, cadmium concentrations in the three replicates were 1.85, 1.55, and 1.71 ug/g dw (Table 9). This is a range of only 0.30 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 1.70 ug/g dw. The tightness of these data facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT cadmium concentrations among stations was not large (2.12 to 2.82 ug/g dw = range of 0.70), there was one significant difference among stations (p = 0.0264); POP was significantly higher than POM. The stations are shown below in ascending order of cadmium concentration. Stations with statistically similar EOT cadmium concentrations are grouped together with an underline. Two groups were identified for EOT cadmium concentrations with much overlap among the groups. Mussels at the two shipyard stations, SNAV and SCIA, accumulated similar amounts of cadmium, and these concentrations were intermediate among the stations sampled. Although statistically significant differences in cadmium concentrations were found among stations, the tissue concentrations of cadmium were lower than those associated with measured adverse effects.

| | BOT | POM | SIRP | SCIA * | SNAV * | OBDI * | POP * |
|---|---|---|---|---|---|---|---|
| Mean Cd (ug/g dw): | 1.70 | 2.12 | 2.15 | 2.27 | 2.53 | 2.58 | 2.82 |

* = significantly different than BOT

Mean cadmium concentrations in indigenous mussels ranged from 2.21 to 3.65 ug/g dw (Table 9, Figure 21), and were within the range measured in the transplanted mussels.

### *4.4.6 Nickel (Ni) Concentrations in Mussel Tissues*

When comparing BOT with EOT concentrations, mussels at SCIA were the only ones in which nickel accumulation was significantly higher than the BOT concentration ($p < 0.0009$). Nickel concentrations in mussels at the other stations were not significantly different than BOT. The concentration of nickel in mussels deployed at OBDI and SIRP decreased during the deployment period. There was an average increase of 10% across all stations. Increases in nickel concentrations ranged from a low of -14.8% at OBDI to a high of 45% at SCIA. Mean nickel concentrations ranged from a low of 0.698 ug/g dw at SIRP to a high of 1.120 ug/g dw at SCIA (Table 9, Figures 22A, 23). The average for all transplanted mussels was 0.85 ug/g dw. While nickel concentration decreased as some stations, nickel content increased at all stations.

At BOT, nickel concentrations in the three replicates were 0.811, 0.729, and 0.778 ug/g dw (Table 9). This is a range of only 0.082 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 0.773 ug/g dw. The tightness of these data also facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT nickel concentrations among stations was not large (0.659 to 1.120 ug/g dw = range of 0.461), there were three significant differences among stations ($p = 0.0018$). The stations are shown below in ascending order of nickel concentration. Nickel concentrations at SCIA were significantly higher than at OBDI, SIRP, and POM. Stations with statistically similar EOT nickel concentrations are grouped together with an underline. Two groups were identified for EOT nickel concentrations with SNAV overlapping the lower and higher groups. Mussels at the two shipyard stations, SNAV and SCIA, accumulated similar amounts of nickel, and these concentrations were among the higher concentrations measured. Although statistically significant differences in nickel concentrations were found among stations, the tissue concentrations of nickel were much lower than those associated with measured adverse effects.

| | BOT | OBDI | SIRP | POM | SNAV | POP | SCIA * |
|---|---|---|---|---|---|---|---|
| Mean Ni (ug/g dw): | 0.773 | 0.659 | 0.698 | 0.800 | 0.894 | 0.910 | 1.120 |

* = significantly different than BOT

Mean nickel concentrations in indigenous mussels ranged from 0.581 to 0.868 ug/g dw (Table 9, Figure 22), and were within the range measured in the transplanted mussels.

### *4.4.7 Lead (Pb) Concentrations in Mussel Tissues*

When comparing BOT with EOT concentrations, mussels at all stations accumulated significant amounts of lead ($p = 0.0001$). There was an average increase of 473% across all stations. Increases in lead

concentrations ranged from a low of 297.7% at OBDI to a high of 779.6% at SCIA. Mean lead concentrations ranged from a low of 0.760 ug/g dw at OBDI to a high of 1.680 ug/g dw at SCIA (Table 9, Figures 24A, 25). The average for all transplanted mussels was 1.09 ug/g dw.

At BOT, lead concentrations in the three replicates were 0.216, 0.167, and 0.190 ug/g dw (Table 9). This is a range of only 0.049 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 0.191 ug/g dw. The tightness of these data also facilitated detecting statistically significant differences between BOT and EOT concentrations.

Although the overall difference in mean EOT lead concentrations among stations was not large (0.760 to 1.680 ug/g dw = range of 0.92), there were significant differences among stations (p = 0.0013). The stations are shown below in ascending order of lead concentration. Lead concentrations at SCIA were significantly higher than at all other stations. Stations with statistically similar EOT lead concentrations are grouped together with an underline. Although statistically significant differences in lead concentrations were found among stations, the tissue concentrations of lead were much lower than those associated with measured adverse effects. Relative increases in both concentration and content of lead were very similar when compared to BOT.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | POP | SIRP | POM | SNAV | SCIA |
| Mean Pb (ug/g dw): | 0.191 | 0.760 | 0.800 | 1.101 | 1.102 | 1.123 | 1.680 |

* = significantly different than BOT

Mean lead concentrations in indigenous mussels ranged from 0.899 to 1.58 ug/g dw (Table 9, Figure 24), and were within the range measured in the transplanted mussels.

### *4.4.8 Chromium (Cr) Concentrations in Mussel Tissues*

When comparing BOT with EOT concentrations, none of the mussels accumulated significant amounts of chromium (p = 0.3382). There was an average increase of 41.9% across all stations. Increases in chromium concentrations ranged from a low of 16.3% at OBDI to a high of 85% at SCIA. Mean chromium concentrations ranged from a low of 0.495 ug/g dw at OBDI to a high of 0.79 dw at SCIA (Table 9, Figures 26A, 27). The average for all transplanted mussels was 0.60 ug/g dw. One outlier at POM (2.25 ug Cr/g) was excluded from data analysis (Table 9).

At BOT, chromium concentrations in the three replicates were 0.433, 0.417, and 0.426 ug/g dw (Table 9). This is a range of only 0.009 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 0.425 ug/g dw. The tightness of these data also facilitated detecting statistically significant differences between BOT and EOT concentrations.

The overall difference in mean EOT chromium concentrations among stations was not large (0.425 to 0.788 ug/g dw = range of 0.363) and there were significant differences among stations (p = 0.0011). The stations are shown below in ascending order of chromium concentration. The chromium content by station showed a somewhat different pattern.

| | | | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | OBDI | SIRP | POM | SNAV | POP | SCIA |
| Mean Cr (ug/g dw): | 0.425 | 0.495 | 0.556 | 0.576 | 0.582 | 0.625 | 0.788 |

* = significantly different than BOT

Mean chromium concentrations in indigenous mussels ranged from 0.557 to 0.624 ug/g dw (Table 9, Figure 26), and were within the range measured in the transplanted mussels.

### *4.4.9 Silver (Ag) Concentrations in Mussel Tissues*

When comparing BOT with EOT concentrations, none of the mussels accumulated statistically significant amounts of silver (p = 0.0516). Mussels at all stations lost silver during the deployment period. There was an average increase of -33.6% across all stations. Increases in silver concentrations ranged from a low of -46.9% at SNAV to a high of-16% at OBDI. Mean silver concentrations ranged from a low of 0.188 ug/g dw at SNAV to a high of 0.030 dw at OBDI (Table 9, Figures 28A, 29). The average for all transplanted mussels was 0.02 ug/g dw.

At BOT, silver concentrations in the three replicates were 0.0445, 0.0327, and 0.0289 ug/g dw (Table 9). This is a range of only 0.0156 ug/g dw and shows excellent consistency in the measurements and confidence in the mean of 0.0345 ug/g dw. The tightness of these data also facilitated detecting statistically significant differences between BOT and EOT concentrations. There were no significant differences between the BOT concentration and EOT concentration at any station (p = 0.0516)

The overall difference in mean EOT silver concentrations among stations was not large (0.0188 to 0.0431 ug/g dw = range of 0.0423) and there were no significant differences among stations (p = 0.0715). The stations are shown below in ascending order of silver concentration. Stations with statistically similar EOT silver concentrations are grouped together with an underline. Unlike the BOT comparisons for concentration, when compared to BOT silver content, EOT content was higher at two stations.

| | BOT | SNAV | SCIA | SIRP | POM | POP | OBDI |
|---|---|---|---|---|---|---|---|
| Mean Ag (ug/g dw): | 0.035 | 0.019 | 0.020 | 0.021 | 0.022 | 0.029 | 0.030 |

Mean silver concentrations in indigenous mussels ranged from 0.016 to 0.074 ug/g dw (Table 9, Figure 28), and were higher than concentrations measured in the transplanted mussels except at INAV.

### *4.4.10 Total Measured PAH Concentrations in Mussel Tissues*

The individual PAH compounds and tPAH concentrations are provided in Table 10. Tissues were analyzed for a total of 43 PAH compounds; 20 of these were parent compounds and 23 homologs. Nineteen of the 20 parent compounds were used in the calculation of tPAH concentrations; dibenzothiophene was not included in the total because it is not one of the PAH compounds utilized by the NOAA Status and Trends program. The 19 compounds used in calculating tPAH concentrations are highlighted in blue (Table 10). These 19 compounds represent the seven parent low molecular weight PAHs (with 2 or 3 rings): naphthalene, biphenyl, acenaphthene, acenaphthylene, fluorene, phenanthrene, anthracene, plus the sum of the 12 parent high molecular weight PAHs (4 or more rings): fluoranthene, pyrene, benz[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[e]pyrene, benzo[a]pyrene, perylene, dibenz[a,h]anthracene, indeno[1,2,3-cd]pyrene, benzo[ghi]perylene (Kimbrough et al 2008).

When comparing BOT with EOT concentrations, mussels at Stations SIRP, POM, SNAV, SCIA accumulated statistically significant amounts of tPAH (p = <0.0001); mussels at POP and OBDI did not (Table 10, Figures 30A, 31). Mean tPAH concentrations ranged from 61.5 ng/g dw at POP to 324 ng/g dw at SCIA. The average for all transplanted mussels was 193 ng/g dw. There was an average increase in tPAH of 305% across all stations; 432% if only considering Stations SIRP, POM, SNAV, SCIA. Increases in tPAH

concentrations ranged from a low of 29% at POP to a high of 581% at SCIA.

At BOT, tPAH concentrations in the three replicates were 48.2, 46.7, and 47.8 ng/g dw. This is a range of only 1.5 ng/g dw and shows excellent consistency in the measurements and confidence in the mean of 47.5 ng/g dw. The tightness of these data facilitated detecting statistically significant differences between BOT and EOT concentrations.

The overall difference in mean EOT tPAH concentrations among stations was moderate (61.5 to 323.8 ng/g dw = range of 262.3 ng/g dw), and there statistically significant differences among stations ($p = <0.0001$). The stations are shown below in ascending order of tPAH concentration. tPAH concentrations at POP were significantly lower than at SCIA. Stations with statistically similar EOT tPAH concentrations are grouped together with an underline. Mussels deployed at the two shipyard stations, SNAV and SCIA as well as those deployed at POM and SIRP, accumulated similar amounts of tPAH. tPAH concentrations were much lower at POP and OBDI, and these two stations formed a statistical grouping. Although statistically significant differences in tPAH concentrations were found among stations, the tissue concentrations of tPAH were much lower than those associated with measured adverse effects in most other studies.

| | | | | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | SIRP | POM | SNAV | SCIA |
| Mean tPAH (ng/g dw): | 47.2 | 61.5 | 83.3 | 202.5 | 234.9 | 250.2 | 323.8 |

* = significantly different than BOT

Mean tPAH concentrations in indigenous mussels ranged from 127 to 412 ng/g dw (Table 10, Figure 30), and were within the range measured in the transplanted mussels except at IPOM where the concentrations were the highest measured.

The individual PAH compound profiles for transplanted mussels are presented in Figure 32A. The BOT concentrations (yellow circles) are shown on each profile for comparative purposes. The red bars in figure 32A identify PAHs within a homolog grouping. The profiles are very similar for POP and OBDI; all PAH concentrations were below 10 ng/g dw. The BOT concentrations were all less than or equal to the concentrations measured in mussels deployed at POP and OBDI except for phenanthrene. Phenanthrene in the BOT mussels was 10.63 ng/g dw, and only 3.36 and 8.57, respectively, in mussels deployed at POP and OBDI. The concentration of phenanthrene in the BOT mussels was only exceeded by mussels deployed at POM (14.83 ng/g dw), SIRP (13.74 ng/g dw), and NAV (21.71 ng/g dw). The primary compounds found at POP and OBDI were naphthalenes, phenanthracenes-anthracenes, and fluoranthenes-pyrenes. At all other stations, the concentrations of the individual PAH compounds were higher than those measured at mussels deployed at POP and OBDI, with the fluoranthenes-pyrenes and dibenzothiophenes present at the highest concentrations. In mussels deployed at POM, SIRP, SCIA, and SNAV, pyrene was the largest fraction, ranging from 51.7 to 75.3 ng/g dw, accounting for 12.1 to 18.7% of the tPAHs measured (Table 10).

The individual PAH compound profiles for indigenous mussels (Figure 32B) show how the concentrations were quite different than the transplanted mussels. In the indigenous mussels, the concentrations of the phenanthracenes-anthracenes were slightly less than the concentrations of fluoranthenes-pyrenes. In the transplanted mussels, however, the concentrations of fluoranthenes-pyrenes were much higher than any of the other homolog groups, and the benzene homologs were second highest in mussels at four of the transplant locations (POM, SIRP, SCIA, and SNAV). The benzene homologs were among the lowest for

the indigenous mussels. For most stations, the distribution of petrogenic and pyrogenic PAH is fairly similar between the indigenous and transplanted mussels, about 50% each. The largest difference is at the POM station where the indigenous mussels had twice the concentration of pyrogenic PAHs as petrogenic PAHs. Table 11 provides the percent of the total PAH value, using a tPAH value based on all compounds measured, for each of the individual PAH compounds in mussel tissues.

PAHs derived from petrogenic sources (i.e., crude oil and its refined products) are characterized by their distributions of alkylated homologs of naphthalene, fluorene, phenanthrene, dibenzothiophene, and chrysene, where the parent PAH for each series is least abundant (Page et al. 1995). PAHs derived from pyrogenic sources (i.e,. PAHs produced in combustion processes) are generally characterized by high concentrations of PAHs with molecular weights greater than C3-dibenzothiophene and/or high concentrations of the parent compound. PAHs derived from biogenic sources (i.e., PAHs produced by bacterial modification of recent inputs of organic matter) are characterized by the presence of perylene. Combustion-related sources produce a PAH distribution dominated by the parent compounds of the 3-, 4-, and 5-ring PAHs and fluoranthene and pyrene, and are referred to as petrogenic PAHs.

Although some PAHs can be both pyrogenic and petrogenic, a general characterization of PAHs accumulated by aquatic organisms can be achieved using the following equations (Page et al. 1995):

[Pyrogenic PAHs] = sum of 17 EPA priority PAHs*
[Biogenic PAHs] = [perylene]
[Petrogenic PAHs] = [total PAH] - [pyrogenic + biogenic]
*US Environmental Protection Agency; Acenaphthene, Acenaphthylene, Anthracene, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(ah)anthracene, Dibenzothiophene, Fluoranthene, Fluorene, Indeno(123-cd)pyrene, Naphthalene, Phenanthrene, Pyrene

For the BOT mussels, the majority of PAHs in their tissues were pyrogenic (57%), followed by petrogenic (43%), and a very small amount of biogenic (1%). The majority of PAHs measured in the deployed mussel tissues were petrogenic category (49 to 59%), with the pyrogenic PAHs making up nearly all the rest (39 to 50%). Only 1 to 2% of the accumulated PAHs were biogenic (Table 12). The pattern was similar for the indigenous mussels except for IPOM. At IWP and INAV, pyrogenic PAHs ranged from 45.4 to 51.7% and the pattern was very similar to the transplanted mussels. At IPOM however, pyrogenic PAHs the indigenous mussels constituted 64.5% of the total. Biogenic PAHs made up < 1% in all the indigenous mussels.

Table 10. Mean PAH Compound Concentration (ng/g dw) in mussel tissues by Station and mean detection limits (ng/g dw).

| | | Mean | Transplanted Mussels | | | | | | | Mean | Indigenous Mussels | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DL* | BOT | POP | OBDI | POM | SIRP | CIA | NAV | DL* | IWP | INAV | IPOM |
| N | Naphthalene | *0.684* | 2.24 | 1.72 | 2.00 | 3.28 | 3.14 | 2.72 | 2.79 | *2.34* | 3.63 | 9.07 | 7.62 |
| N1 | C1-Naphthalenes | *0.684* | 2.41 | 1.19 | 3.65 | 5.64 | 4.61 | 2.17 | 4.77 | *2.34* | 2.89 | 7.98 | 9.07 |
| N2 | C2-Naphthalenes | *0.684* | 3.93 | 5.60 | 6.64 | 8.98 | 8.36 | 6.82 | 8.65 | *2.34* | 8.63 | 15.04 | 14.72 |
| N3 | C3-Naphthalenes | *0.684* | 3.20 | 5.88 | 6.08 | 8.21 | 8.14 | 6.43 | 7.86 | *2.34* | 9.78 | 11.36 | 16.81 |
| N4 | C4-Naphthalenes | *0.684* | 2.38 | 8.00 | 6.66 | 6.59 | 7.05 | 5.67 | 6.99 | *2.34* | 7.38 | 4.24 | 12.16 |
| BI | Biphenyl | *0.215* | 0.43 | 0.21 | 0.39 | 0.56 | 0.60 | 0.38 | 0.68 | *0.66* | 1.03 | 1.69 | 1.90 |
| AC | Acenaphthylene | *0.123* | 0.36 | 0.59 | 0.81 | 1.46 | 1.61 | 2.27 | 1.92 | *0.33* | 1.22 | 1.71 | 2.82 |
| AE | Acenaphthene | *0.217* | 3.61 | 3.60 | 3.53 | 5.27 | 5.13 | 4.99 | 5.02 | *0.70* | 8.58 | 7.19 | 14.30 |
| DBF | Dibenzofuran | *0.173* | 2.40 | 0.93 | 1.73 | 2.31 | 2.37 | 1.95 | 2.75 | *0.57* | 3.49 | 4.07 | 9.37 |
| F | Fluorene | *0.264* | 3.04 | 1.58 | 2.99 | 4.05 | 4.36 | 3.61 | 5.06 | *0.84* | 4.65 | 5.38 | 11.21 |
| F1 | C1-Fluorenes | *0.264* | 1.14 | 1.73 | 2.42 | 3.27 | 3.11 | 2.92 | 3.57 | *0.84* | 2.62 | 5.46 | 5.26 |
| F2 | C2-Fluorenes | *0.264* | 2.41 | 4.07 | 4.84 | 7.07 | 7.36 | 6.16 | 7.32 | *0.84* | 6.20 | 7.99 | 9.19 |
| F3 | C3-Fluorenes | *0.264* | 0.00 | 1.99 | 3.26 | 4.33 | 2.60 | 4.96 | 3.03 | *0.84* | 0.00 | 0.00 | 3.06 |
| A | Anthracene | *0.215* | 0.73 | 0.84 | 1.34 | 3.50 | 4.37 | 5.67 | 5.09 | *0.66* | 3.97 | 3.07 | 5.55 |
| P | Phenanthrene | *0.428* | 10.63 | 3.36 | 8.57 | 14.83 | 13.74 | 9.25 | 21.71 | *1.40* | 17.07 | 23.02 | 83.85 |
| P/A1 | C1-Phenanthrenes/Anthracenes | *0.428* | 3.31 | 6.06 | 6.98 | 10.52 | 9.74 | 9.72 | 12.53 | *1.40* | 8.11 | 11.39 | 22.32 |
| P/A2 | C2-Phenanthrenes/Anthracenes | *0.428* | 2.13 | 5.18 | 5.74 | 12.27 | 12.52 | 13.34 | 14.19 | *1.40* | 9.78 | 17.19 | 18.88 |
| P/A3 | C3-Phenanthrenes/Anthracenes | *0.428* | 1.60 | 4.67 | 4.59 | 10.20 | 11.61 | 13.99 | 11.45 | *1.40* | 6.95 | 17.98 | 11.03 |
| P/A4 | C4-Phenanthrenes/Anthracenes | *0.428* | 0.18 | 1.87 | 1.70 | 4.82 | 7.75 | 10.56 | 6.04 | *1.40* | 2.47 | 11.01 | 4.61 |
| D | Dibenzothiophene | *0.310* | 0.94 | 0.38 | 0.74 | 1.45 | 1.21 | 0.92 | 1.61 | *1.03* | 1.11 | 1.51 | 5.28 |
| D1 | C1-Dibenzothiophenes | *0.310* | 0.83 | 1.19 | 1.14 | 2.68 | 2.51 | 2.57 | 2.44 | *1.03* | 2.74 | 1.21 | 4.24 |
| D2 | C2-Dibenzothiophenes | *0.310* | 1.16 | 3.77 | 3.03 | 6.44 | 7.39 | 7.30 | 5.41 | *1.03* | 2.74 | 1.95 | 6.44 |
| D3 | C3-Dibenzothiophenes | *0.310* | 0.00 | 2.07 | 2.08 | 7.15 | 8.24 | 10.70 | 7.04 | *1.03* | 2.46 | 1.61 | 5.73 |
| D4 | C4-Dibenzothiophenes | *0.310* | 0.00 | 1.35 | 1.43 | 5.46 | 7.34 | 10.51 | 6.74 | *1.03* | 0.00 | 1.81 | 1.39 |
| FL | Fluoranthene | *0.356* | 9.34 | 9.39 | 13.41 | 33.36 | 28.68 | 30.79 | 40.03 | *1.16* | 24.99 | 32.06 | 135.75 |
| PYR | Pyrene | *0.592* | 6.48 | 8.87 | 13.81 | 75.26 | 51.65 | 68.72 | 57.96 | *2.00* | 11.90 | 27.90 | 70.92 |
| F/P1 | C1-Fluoranthenes/Pyrenes | *0.592* | 2.67 | 5.86 | 7.49 | 22.93 | 27.88 | 43.05 | 32.71 | *2.00* | 11.58 | 17.93 | 25.86 |
| F/P2 | C2-Fluoranthenes/Pyrenes | *0.592* | 0.93 | 3.01 | 3.40 | 13.62 | 17.56 | 30.12 | 20.19 | *2.00* | 2.86 | 6.67 | 10.28 |
| F/P3 | C3-Fluoranthenes/Pyrenes | *0.592* | 0.21 | 1.62 | 2.81 | 11.66 | 15.76 | 28.81 | 17.22 | *2.00* | 3.29 | 1.75 | 5.16 |
| BA | Benzo(a)anthracene | *0.123* | 0.91 | 2.29 | 2.87 | 8.47 | 8.57 | 19.02 | 11.05 | *0.37* | 5.70 | 4.62 | 8.66 |
| C | Chrysene | *0.211* | 2.79 | 5.11 | 6.22 | 12.60 | 12.37 | 21.18 | 16.65 | *0.60* | 11.24 | 8.83 | 24.32 |
| C1 | C1-Chrysenes | *0.211* | 0.83 | 1.98 | 2.08 | 5.62 | 5.87 | 14.41 | 7.12 | *0.60* | 3.37 | 3.97 | 5.04 |
| C2 | C2-Chrysenes | *0.211* | 0.00 | 1.62 | 1.68 | 5.76 | 6.25 | 11.74 | 6.42 | *0.60* | 0.00 | 0.00 | 0.00 |
| C3 | C3-Chrysenes | *0.211* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.60* | 0.00 | 0.00 | 0.00 |
| C4 | C4-Chrysenes | *0.211* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.60* | 0.00 | 0.00 | 0.00 |
| BB | Benzo(b)fluoranthene | *0.217* | 1.43 | 4.86 | 5.88 | 16.15 | 15.97 | 38.38 | 19.4 | *0.70* | 7.03 | 5.89 | 11.27 |
| BK | Benzo(k)fluoranthene | *0.243* | 1.30 | 3.89 | 4.81 | 13.41 | 12.87 | 33.23 | 16.9 | *0.66* | 8.77 | 9.94 | 15.22 |
| BEP | Benzo(e)pyrene | *0.354* | 1.95 | 7.65 | 9.50 | 25.8 | 25.4 | 49.3 | 28.0 | *1.12* | 6.51 | 5.01 | 9.99 |
| BAP | Benzo(a)pyrene | *0.266* | 0.38 | 1.39 | 1.77 | 5.41 | 5.33 | 16.52 | 7.91 | *0.90* | 3.64 | 0.76 | 2.90 |
| PER | Perylene | *0.173* | 0.62 | 2.36 | 1.82 | 4.58 | 4.43 | 8.86 | 5.03 | *0.57* | 1.80 | 0.29 | 1.46 |
| IP | Indeno(1,2,3-cd)pyrene | *0.341* | 0.43 | 1.31 | 1.24 | 1.98 | 1.49 | 3.40 | 1.77 | *1.07* | 2.56 | 1.78 | 2.02 |
| DA | Dibenz(a,h)anthracene | *0.123* | 0.11 | 0.38 | 0.29 | 0.55 | 0.52 | 1.21 | 0.60 | *0.33* | 0.95 | 0.00 | 0.46 |
| BP | Benzo(g,h,i)perylene | *0.447* | 0.74 | 2.10 | 2.04 | 4.31 | 2.30 | 4.35 | 2.51 | *1.45* | 2.12 | 2.93 | 1.68 |
| ***tPAH (NOAA NS&T PAH list - 19 cmpds)*** | | | ***47.5*** | ***61.5*** | ***83.3*** | ***234.8*** | ***202.5*** | ***323.8*** | ***250.1*** | | ***127.4*** | ***151.1*** | ***411.9*** |
| ***% increase above BOT:*** | | | ***na*** | ***29%*** | ***75%*** | ***394%*** | ***326%*** | ***581%*** | ***426%*** | | ***na*** | ***na*** | ***na*** |
| ***Min*** | | | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | | ***0*** | ***0*** | ***0*** |
| ***Max*** | | | ***10.6*** | ***9.4*** | ***13.8*** | ***75.3*** | ***51.6*** | ***68.7*** | ***58.0*** | | ***25.0*** | ***32.1*** | ***136*** |
| ***Mean*** | | | ***1.87*** | ***3.06*** | ***3.80*** | ***9.35*** | ***9.02*** | ***13.2*** | ***10.4*** | | ***5.25*** | ***7.05*** | ***14.4*** |
| ***tPAH (Parent + homologs)*** | | | ***80*** | ***132*** | ***164*** | ***402*** | ***388*** | ***569*** | ***446*** | | ***226*** | ***303*** | ***618*** |

* DL = Detection Limit

Table 11. Individual PAH Compounds in mussel tissues as Percent of Total PAHs using all measured compounds.

| | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV | IWP | INAV | IPOM |
|---|---|---|---|---|---|---|---|---|---|---|
| N | 2.80% | 1.31% | 1.22% | 0.82% | 0.81% | 0.48% | 0.63% | 1.61% | 2.99% | 1.23% |
| N1 | 3.01% | 0.90% | 2.23% | 1.40% | 1.19% | 0.38% | 1.07% | 1.28% | 2.63% | 1.47% |
| N2 | 4.90% | 4.26% | 4.06% | 2.24% | 2.16% | 1.20% | 1.94% | 3.82% | 4.96% | 2.38% |
| N3 | 3.99% | 4.47% | 3.72% | 2.04% | 2.10% | 1.13% | 1.76% | 4.33% | 3.75% | 2.72% |
| N4 | 2.97% | 6.09% | 4.07% | 1.64% | 1.82% | 1.00% | 1.57% | 3.27% | 1.40% | 1.97% |
| BI | 0.54% | 0.16% | 0.24% | 0.14% | 0.15% | 0.07% | 0.15% | 0.46% | 0.56% | 0.31% |
| AC | 0.45% | 0.45% | 0.50% | 0.36% | 0.42% | 0.40% | 0.43% | 0.54% | 0.56% | 0.46% |
| AE | 4.50% | 2.74% | 2.16% | 1.31% | 1.32% | 0.88% | 1.13% | 3.80% | 2.37% | 2.31% |
| DBF | 2.99% | 0.71% | 1.06% | 0.57% | 0.61% | 0.34% | 0.62% | 1.54% | 1.34% | 1.52% |
| F | 3.79% | 1.20% | 1.83% | 1.01% | 1.12% | 0.64% | 1.13% | 2.06% | 1.78% | 1.81% |
| F1 | 1.42% | 1.32% | 1.48% | 0.81% | 0.80% | 0.51% | 0.80% | 1.16% | 1.80% | 0.85% |
| F2 | 3.01% | 3.10% | 2.96% | 1.76% | 1.90% | 1.08% | 1.64% | 2.75% | 2.64% | 1.49% |
| F3 | 0.00% | 1.51% | 2.00% | 1.08% | 0.67% | 0.87% | 0.68% | 0.00% | 0.00% | 0.49% |
| A | 0.91% | 0.64% | 0.82% | 0.87% | 1.13% | 1.00% | 1.14% | 1.76% | 1.01% | 0.90% |
| P | ***13.25%*** | 2.56% | 5.24% | 3.69% | 3.54% | 1.63% | 4.87% | 7.56% | 7.59% | ***13.57%*** |
| P/A1 | 4.13% | 4.61% | 4.27% | 2.62% | 2.51% | 1.71% | 2.81% | 3.59% | 3.76% | 3.61% |
| P/A2 | 2.66% | 3.94% | 3.51% | 3.05% | 3.23% | 2.35% | 3.18% | 4.33% | 5.67% | 3.06% |
| P/A3 | 1.99% | 3.55% | 2.81% | 2.54% | 2.99% | 2.46% | 2.57% | 3.08% | 5.93% | 1.79% |
| P/A4 | 0.23% | 1.42% | 1.04% | 1.20% | 2.00% | 1.86% | 1.35% | 1.09% | 3.63% | 0.75% |
| D | 1.17% | 0.29% | 0.46% | 0.36% | 0.31% | 0.16% | 0.36% | 0.49% | 0.50% | 0.86% |
| D1 | 1.03% | 0.90% | 0.70% | 0.67% | 0.65% | 0.45% | 0.55% | 1.21% | 0.40% | 0.69% |
| D2 | 1.45% | 2.87% | 1.86% | 1.60% | 1.90% | 1.28% | 1.21% | 1.21% | 0.64% | 1.04% |
| D3 | 0.00% | 1.58% | 1.27% | 1.78% | 2.12% | 1.88% | 1.58% | 1.09% | 0.53% | 0.93% |
| D4 | 0.00% | 1.03% | 0.87% | 1.36% | 1.89% | 1.85% | 1.51% | 0.00% | 0.60% | 0.23% |
| FL | ***11.65%*** | 7.14% | 8.20% | 8.30% | 7.40% | 5.41% | 8.97% | ***11.07%*** | ***10.57%*** | ***21.97%*** |
| PYR | 8.08% | 6.75% | 8.45% | ***18.73%*** | ***13.32%*** | ***12.09%*** | ***12.99%*** | 5.27% | 9.20% | ***11.48%*** |
| F/P1 | 3.32% | 4.45% | 4.58% | 5.71% | 7.19% | 7.57% | 7.33% | 5.13% | 5.91% | 4.19% |
| F/P2 | 1.16% | 2.29% | 2.08% | 3.39% | 4.53% | 5.30% | 4.53% | 1.27% | 2.20% | 1.66% |
| F/P3 | 0.26% | 1.23% | 1.72% | 2.90% | 4.06% | 5.07% | 3.86% | 1.46% | 0.58% | 0.84% |
| BA | 1.14% | 1.74% | 1.76% | 2.11% | 2.21% | 3.35% | 2.48% | 2.52% | 1.52% | 1.40% |
| C | 3.48% | 3.88% | 3.80% | 3.13% | 3.19% | 3.72% | 3.73% | 4.98% | 2.91% | 3.94% |
| C1 | 1.03% | 1.51% | 1.27% | 1.40% | 1.51% | 2.53% | 1.60% | 1.49% | 1.31% | 0.82% |
| C2 | 0.00% | 1.24% | 1.03% | 1.43% | 1.61% | 2.06% | 1.44% | 0.00% | 0.00% | 0.00% |
| C3 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| C4 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| BB | 1.78% | 3.69% | 3.60% | 4.02% | 4.12% | 6.75% | 4.35% | 3.11% | 1.94% | 1.82% |
| BK | 1.63% | 2.96% | 2.94% | 3.34% | 3.32% | 5.84% | 3.79% | 3.88% | 3.28% | 2.46% |
| BEP | 2.43% | 5.82% | 5.81% | 6.42% | 6.55% | 8.66% | 6.28% | 2.88% | 1.65% | 1.62% |
| BAP | 0.47% | 1.06% | 1.08% | 1.35% | 1.38% | 2.91% | 1.77% | 1.61% | 0.25% | 0.47% |
| PER | 0.77% | 1.79% | 1.12% | 1.14% | 1.14% | 1.56% | 1.13% | 0.80% | 0.09% | 0.24% |
| IP | 0.54% | 0.99% | 0.76% | 0.49% | 0.38% | 0.60% | 0.40% | 1.13% | 0.59% | 0.33% |
| DA | 0.14% | 0.29% | 0.18% | 0.14% | 0.13% | 0.21% | 0.13% | 0.42% | 0.00% | 0.08% |
| BP | 0.93% | 1.60% | 1.25% | 1.07% | 0.59% | 0.76% | 0.56% | 0.94% | 0.97% | 0.27% |

Table 12. PAH Sources: Pyrogenic, Biogenic, Petrogenic. All values in ppb dw and on a percentage basis for transplanted and indigenous mussels.

| | *Transplants* | | | | | | | *Indigenous* | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV | IWP | INAV | IPOM |
| Pyrogenic | 45.5 | 51.7 | 72.3 | 205 | 173 | 266 | 218 | 25.4 | 31.5 | 98.9 |
| Biogenic | 0.62 | 2.36 | 1.82 | 4.58 | 4.43 | 8.86 | 5.03 | 0.38 | 0.24 | 0.36 |
| Petrogenic | 34.1 | 77.5 | 89.3 | 192 | 210 | 294 | 223 | 23.4 | 35.7 | 52.5 |
| | | | | | | | | | | |
| % Pyrogenic | 57 | 39 | 44 | 50 | 45 | 47 | 49 | 51.7 | 45.4 | 64.5 |
| % Biogenic | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 0.8 | 0.4 | 0.2 |
| % Petrogenic | 43 | 59 | 55 | 49 | 54 | 52 | 50 | 47.5 | 54.2 | 35.3 |

### *4.4.11 tPCB Concentrations in Mussel Tissues*

Mussel tissues were analyzed for 21 PCB congeners and 10 levels of chlorination (LOC; Table 13). The reported concentrations for a large portion of the individual congeners were below the detection limits as provided in Table 13. The total PCB concentrations shown in Table 13 were calculated 1) by multiplying the sum of the concentrations of the individual 21 congeners by 2, and 2) by summing the concentrations measured for each LOC. As with the PAH data, the convention of replacing non-detects with a "0", was used during analysis of these data.

There was an average increase in tPCB of 674% across all stations. Increases in tPCB concentrations ranged from a low of 174% at POP to a high of 1515% at SCIA. Mean tPCB concentrations ranged from 42 ng/g dw at POP to 244 ng/g dw at SCIA (Table 13, Figures 33A, 34). The average EOT tPCB concentration for all transplanted mussels was 117 ng/g dw.

Mussels at POM, SIRP, SCIA, and SNAV accumulated PCBs at concentrations that were significantly elevated above the mean BOT concentration of 15 ng/g dw; mussels at POP and OBDI did not ($p = <0.0001$).

| | | | | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | POM | SNAV | SIRP | SCIA |
| Mean tPCB (ng/g dw): | 15 | 42 | 48 | 110 | 115 | 144 | 244 |

* = significantly different than BOT

Mean tPCB concentrations in indigenous mussels ranged from 76.2 to 161 ng/g dw (Table 13, Figure 33), and were within the range measured in the transplanted mussels. Three congeners were consistently the highest among the 21 measured in tissues from all deployed mussel: PCB-153, PCB-138, PCB-101. PCB-118 and PCB-187 were also accumulated by all mussels, with mussels at POM, SIRP, SCIA, and SNAV accumulating higher concentrations than those at POP and OBDI (Figure 35A). PCB concentrations were highest in mussels deployed at SCIA. The concentration of PCB-153 in mussels deployed at SCIA was 31.1 ng/g dw, the highest concentration measured of an individual PCB congener. The pattern of uptake for the indigenous mussels was similar to the transplanted specimens (Figure 35B).

Toxicity equivalent factors (TEFs) have been developed for a select group of dioxin-like coplanar PCB congeners. The most toxic congener, PCB-126, has a TEF of 0.1 (Ahlborg et al. 1994, Van den Berg et al. 1998). PCB-126 was not detected in the tissues of any deployed mussels. The WHO 1997 list of TEFs only includes two other PCB congeners measured in this study: PCB-77 and PCB-105. PCB-77 was only detected in mussels deployed at SIRP. PCB-105 was detected in all mussel tissues, and the concentrations ranged

from 0.36 ng/g dw at POP to 4.90 ng/g dw at SCIA.

### *4.4.12 Tissue Chemistry Ranking Results*

In order of increasing magnitude, the ranks for chemical concentrations in mussel tissues range from a low of 17 at OBDI to a high of 54 at SCIA. Results of statistical analyses on these rankings indicate that OBDI is significantly different than SNAV and SCIA, and SIRP is significantly different than SCIA. This ranking shows that cadmium is the only chemical that does not follow the uptake trend seen at other stations. Cadmium concentrations were second highest at OBDI, where concentrations of other chemicals were usually the lowest. POP did not consistently fall into a "low" or "high" group; chemical concentrations ranged from the lowest to the highest at this station. Mussels deployed at SCIA had the highest concentration of all chemicals, except for cadmium, mercury, and chromium.

Table 13. Average PCB Congener Concentration in mussel tissues by Station, detection limits, and total PCB (ng/g dw) as determined by sum of congeners.

| | Mean | Transplanted Mussels | | | | | | | Mean | Indigenous Mussels | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DL* | BOT | POP | OBDI | POM | SIRP | CIA | NAV | DL* | IWP | INAV | IPOM |
| Cl2(8) | *0.046* | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.24 | 0.00 | *0.127* | 0.00 | 0.00 | 0.00 |
| Cl3(18) | *0.046* | 0.10 | 0.00 | 0.00 | 0.48 | 0.80 | 1.19 | 0.00 | *0.117* | 0.00 | 0.00 | 0.00 |
| Cl3(28) | *0.053* | 0.43 | 0.36 | 0.61 | 1.11 | 1.20 | 1.96 | 0.28 | *0.198* | 0.31 | 0.34 | 1.20 |
| Cl4(44) | *0.071* | 0.38 | 0.92 | 1.00 | 1.90 | 2.70 | 4.92 | 1.53 | *0.217* | 0.61 | 0.42 | 1.15 |
| Cl4(52) | *0.053* | 0.59 | 1.10 | 1.30 | 2.77 | 4.07 | 7.93 | 2.83 | *0.198* | 1.12 | 3.11 | 1.93 |
| Cl4(66) | *0.053* | 0.38 | 0.74 | 0.80 | 1.60 | 2.15 | 3.95 | 1.44 | *0.178* | 0.86 | 2.56 | 1.34 |
| Cl4(77) | *0.053* | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | *0.178* | 0.00 | 0.00 | 0.00 |
| Cl5(101) | *0.053* | 1.21 | 2.74 | 3.00 | 6.62 | 8.80 | 16.8 | 7.13 | *0.178* | 2.85 | 7.11 | 4.19 |
| Cl5(105) | *0.048* | 0.01 | 0.36 | 0.63 | 1.86 | 2.54 | 4.90 | 2.35 | *0.146* | 0.15 | 0.19 | 0.57 |
| Cl5(118) | *0.136* | 0.84 | 2.00 | 2.41 | 5.48 | 7.01 | 13.7 | 6.16 | *0.359* | 2.10 | 5.16 | 3.26 |
| Cl5(126) | *0.048* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.146* | 0.00 | 0.00 | 0.00 |
| Cl6(128) | *0.053* | 0.08 | 0.46 | 0.73 | 1.63 | 2.08 | 3.22 | 1.76 | *0.161* | 0.40 | 0.25 | 0.53 |
| Cl6(138) | *0.053* | 1.19 | 3.31 | 3.58 | 9.47 | 13.0 | 20.5 | 10.6 | *0.161* | 3.86 | 8.02 | 5.24 |
| Cl6(153) | *0.071* | 1.79 | 6.21 | 6.93 | 15.8 | 19.7 | 31.1 | 16.2 | *0.217* | 4.77 | 9.29 | 6.96 |
| Cl7(170) | *0.046* | 0.00 | 0.06 | 0.09 | 0.23 | 0.19 | 0.42 | 0.31 | *0.127* | 0.00 | 0.05 | 0.09 |
| Cl7(180) | *0.046* | 0.03 | 0.29 | 0.47 | 1.09 | 1.24 | 2.35 | 1.67 | *0.127* | 0.36 | 0.32 | 0.60 |
| Cl7(187) | *0.048* | 0.52 | 2.18 | 2.27 | 5.18 | 6.25 | 8.94 | 5.09 | *0.146* | 1.66 | 3.38 | 2.10 |
| Cl8(195) | *0.053* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.198* | 0.00 | 0.00 | 0.00 |
| Cl8(200) | *0.053* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.161* | 0.00 | 0.00 | 0.00 |
| Cl9(206) | *0.048* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.146* | 0.00 | 0.00 | 0.00 |
| Cl10(209) | *0.046* | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | *0.094* | 0.00 | 0.00 | 0.00 |
| *$tPCB_{Sum\ Congeners}$* | | *15.1* | *41.5* | *47.7* | *110* | *144* | *244* | *115* | | *38.1* | *80.4* | *58.3* |
| *% increase above BOT* | | | *174%* | *215%* | *630%* | *852%* | *1515%* | *659%* | | *ma* | *na* | *na* |

* DL = Detection Limit

Table 14. Rankings of chemical concentrations in mussel tissues (1 = lowest concentration; 6 = highest concentration). Statistically similar stations are grouped by an underline.

| | OBDI | SIRP | POP | POM | SNAV | SCIA |
|---|---|---|---|---|---|---|
| Copper | 1 | 2 | 5 | 3 | 4 | 6 |
| Mercury | 2 | 5 | 1 | 6 | 3 | 4 |
| Zinc | 1 | 3 | 2 | 4 | 5 | 6 |
| Arsenic | 1 | 2 | 5 | 3 | 4 | 6 |
| Cadmium | 5 | 2 | 6 | 1 | 4 | 3 |
| Nickel | 1 | 2 | 5 | 3 | 4 | 6 |
| Lead | 1 | 3 | 2 | 4 | 5 | 6 |
| Chromium | 1 | 2 | 4 | 6 | 3 | 5 |
| PAH | 2 | 3 | 1 | 4 | 5 | 6 |
| PCB | 2 | 5 | 1 | 3 | 4 | 6 |
| Sum Rank | 17 | 29 | 32 | 37 | 41 | 54 |

### *4.5 Mussel Tissue Content*

Mussel content (ug/mussel) was calculated to help interpret the effects of growth and bioaccumulation by providing data on the total amount of metal in each mussel by using means. Table 15 includes those results and will be used later to compare the relative total metal to the concentration of metal in each mussel.

#### *4.5.1 Copper Content in Mussel Tissues*

The content data (Table 15; Figure 12B) show a significant increase ($p < 0.0001$) in EOT copper content at all stations when compared to the BOT value of 4.71 ug/mussel. EOT copper content ranged from 6.82 ug/mussel at POM to 9.13 ug/mussel at OBDI. Mussels at OBDI and POP had the highest growth rates which explains why these animals had the highest content values; there was more biomass for these individuals and thus more net copper per individual.

Copper content was significantly higher at OBDI than at POM and SNAV ($p = 0.0145$). There were no other significant differences in copper content among the stations.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POM | SNAV | SIRP | SCIA | POP | OBDI |
| Mean Cu Content (ug/mussel): | 4.71 | 6.82 | 6.95 | 7.11 | 8.41 | 8.45 | 9.13 |

* = significantly different than BOT

Mean copper content in indigenous mussels was generally lower than that determined for transplanted mussels (Table 15, Figure 12B).

Table 15. Content of metals (ug/mussel) calculated in deployed and indigenous mussels.

| | | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV | IWP | INAV | IPOM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cu | Rep 1 | 4.78 | 8.11 | 8.63 | 6.36 | 5.79 | 8.74 | 6.69 | 3.73 | 4.15 | 2.69 |
| | Rep 2 | 4.65 | 8.48 | 9.75 | 6.40 | 6.78 | 8.01 | 6.59 | 3.90 | 4.10 | 2.77 |
| | Rep 3 | 4.71 | 8.76 | 9.01 | 7.70 | 8.76 | 8.47 | 7.56 | 3.74 | 2.85 | 2.92 |
| | Mean | 4.71 | 8.45 | 9.13 | 6.82 | 7.11 | 8.41 | 6.95 | 3.79 | 3.70 | 2.80 |
| | 95% CI | 0.07 | 0.37 | 0.65 | 0.87 | 1.71 | 0.42 | 0.61 | 0.11 | 0.83 | 0.13 |
| | Stdev | 0.07 | 0.33 | 0.57 | 0.77 | 1.51 | 0.37 | 0.54 | 0.09 | 0.74 | 0.12 |
| %Increase above BOT: | | | 79.3% | 93.7% | 44.7% | 50.9% | 78.4% | 47.4% | na | na | na |
| Hg | Rep 1 | 0.031 | 0.107 | 0.155 | 0.265 | 0.265 | 0.133 | 0.104 | 0.06 | 0.07 | 0.05 |
| | Rep 2 | 0.029 | 0.111 | 0.153 | 0.282 | 0.301 | 0.130 | 0.109 | 0.06 | 0.08 | 0.06 |
| | Rep 3 | 0.028 | 0.102 | 0.148 | 0.304 | 0.283 | 0.130 | 0.127 | 0.06 | 0.06 | 0.07 |
| | Mean | 0.0294 | 0.1068 | 0.1518 | 0.2836 | 0.2830 | 0.1312 | 0.1130 | 0.0557 | 0.0698 | 0.0576 |
| | 95% CI | 0.0019 | 0.0055 | 0.0041 | 0.0218 | 0.0201 | 0.0017 | 0.0137 | 0.0001 | 0.0131 | 0.0082 |
| | Stdev | 0.0017 | 0.0049 | 0.0036 | 0.0193 | 0.0177 | 0.0015 | 0.0121 | 0.0001 | 0.0116 | 0.0072 |
| %Increase above BOT: | | | 264% | 417% | 866% | 864% | 347% | 285% | na | na | na |
| Zn | Rep 1 | 56.8 | 115.4 | 149.6 | 110.4 | 99.8 | 118.4 | 117.3 | 116.55 | 101.80 | 73.32 |
| | Rep 2 | 54.0 | 137.3 | 146.8 | 119.2 | 119.3 | 119.1 | 124.7 | 91.02 | 145.25 | 68.41 |
| | Rep 3 | 60.2 | 121.7 | 139.6 | 133.0 | 133.7 | 118.0 | 139.9 | 96.64 | 71.90 | 75.55 |
| | Mean | 57.0 | 124.8 | 145.3 | 120.9 | 117.6 | 118.5 | 127.3 | 101.4 | 106.3 | 72.4 |
| | 95% CI | 3.48 | 12.74 | 5.79 | 12.89 | 19.26 | 0.67 | 13.06 | 15.18 | 41.74 | 4.14 |
| | Stdev | 3.08 | 11.26 | 5.12 | 11.39 | 17.02 | 0.59 | 11.54 | 13.41 | 36.89 | 3.65 |
| %Increase above BOT: | | | 119% | 155% | 112% | 106% | 108% | 123% | na | na | na |
| Ag | Rep 1 | 0.045 | 0.041 | outlier | 0.028 | 0.025 | 0.024 | 0.026 | 0.05 | 0.01 | 0.02 |
| | Rep 2 | 0.035 | 0.045 | 0.064 | 0.026 | 0.027 | 0.022 | 0.022 | 0.05 | 0.01 | 0.02 |
| | Rep 3 | 0.030 | 0.046 | 0.050 | 0.034 | 0.033 | 0.026 | 0.026 | 0.05 | 0.01 | 0.02 |
| | Mean | 0.0366 | 0.0441 | 0.0571 | 0.0294 | 0.0283 | 0.0241 | 0.0248 | 0.0496 | 0.0086 | 0.0230 |
| | 95% CI | 0.0085 | 0.0029 | 0.0107 | 0.0043 | 0.0045 | 0.0024 | 0.0023 | 0.0010 | 0.0014 | 0.0011 |
| | Stdev | 0.0075 | 0.0026 | 0.0095 | 0.0038 | 0.0039 | 0.0021 | 0.0021 | 0.0009 | 0.0013 | 0.0010 |
| %Increase above BOT: | | | 20.6% | 56.0% | -19.7% | -22.7% | -34.2% | -32.1% | na | na | na |
| As | Rep 1 | 4.89 | 11.44 | 11.63 | 9.17 | 8.09 | 10.60 | 9.78 | 4.94 | 3.29 | 3.01 |
| | Rep 2 | 5.08 | 11.64 | 12.81 | 9.43 | 8.99 | 10.45 | 9.88 | 5.04 | 4.33 | 3.11 |
| | Rep 3 | 5.03 | 12.77 | 12.61 | 11.09 | 11.45 | 9.61 | 10.86 | 4.87 | 2.77 | 3.67 |
| | Mean | 5.00 | 11.95 | 12.35 | 9.90 | 9.51 | 10.22 | 10.17 | 4.95 | 3.46 | 3.26 |
| | 95% CI | 0.111 | 0.814 | 0.716 | 1.177 | 1.966 | 0.603 | 0.679 | 0.100 | 0.896 | 0.407 |
| | Stdev | 0.098 | 0.720 | 0.633 | 1.040 | 1.737 | 0.533 | 0.600 | 0.088 | 0.792 | 0.360 |
| %Increase above BOT: | | | 139% | 147% | 98% | 90% | 104% | 104% | na | na | na |
| Cd | Rep 1 | 1.86 | 3.31 | 4.23 | 2.73 | 2.32 | 2.80 | 3.13 | 2.65 | 1.78 | 0.91 |
| | Rep 2 | 1.67 | 5.11 | 4.85 | 2.77 | 2.91 | 2.72 | 3.29 | 2.32 | 1.69 | 1.15 |
| | Rep 3 | 1.76 | 4.36 | 5.33 | 2.80 | 3.66 | 2.74 | 3.65 | 2.26 | 0.94 | 1.44 |
| | Mean | 1.76 | 4.26 | 4.80 | 2.77 | 2.96 | 2.75 | 3.36 | 2.41 | 1.47 | 1.17 |
| | 95% CI | 0.11 | 1.02 | 0.63 | 0.04 | 0.76 | 0.05 | 0.30 | 0.24 | 0.52 | 0.30 |
| | Stdev | 0.09 | 0.90 | 0.55 | 0.04 | 0.67 | 0.04 | 0.27 | 0.21 | 0.46 | 0.27 |
| %Increase above BOT: | | | 141% | 172% | 56.9% | 67.9% | 56.1% | 90.3% | na | na | na |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ni | Rep 1 | 0.814 | 1.317 | 1.232 | 0.978 | 0.961 | 1.364 | 1.185 | 0.54 | 0.37 | 0.39 |
| | Rep 2 | 0.786 | 1.584 | 1.287 | 1.034 | 0.850 | 1.346 | 1.126 | 0.58 | 0.33 | 0.30 |
| | Rep 3 | 0.802 | 1.189 | 1.141 | 1.132 | 0.976 | 1.359 | 1.238 | 0.62 | 0.23 | 0.35 |
| | Mean | 0.801 | 1.363 | 1.220 | 1.048 | 0.929 | 1.356 | 1.183 | 0.580 | 0.311 | 0.348 |
| | 95% CI | 0.016 | 0.228 | 0.083 | 0.088 | 0.078 | 0.010 | 0.063 | 0.045 | 0.084 | 0.052 |
| | Stdev | 0.014 | 0.202 | 0.074 | 0.078 | 0.069 | 0.009 | 0.056 | 0.040 | 0.074 | 0.046 |
| %Increase above BOT: | | | 70.2% | 52.3% | 30.9% | 16.0% | 69.4% | 47.7% | na | na | na |
| | | | | | | | | | | | |
| Pb | Rep 1 | 0.217 | 1.319 | 1.484 | 1.209 | 1.620 | 2.233 | 1.550 | 0.63 | 0.92 | 0.47 |
| | Rep 2 | 0.180 | 1.177 | 1.475 | 1.501 | 1.377 | 2.061 | 1.430 | 0.67 | 1.07 | 0.42 |
| | Rep 3 | 0.196 | 1.096 | 1.253 | 1.630 | 1.323 | 1.804 | 1.469 | 0.63 | 0.57 | 0.51 |
| | Mean | 0.198 | 1.198 | 1.404 | 1.447 | 1.440 | 2.033 | 1.483 | 0.645 | 0.852 | 0.465 |
| | 95% CI | 0.021 | 0.128 | 0.148 | 0.244 | 0.179 | 0.245 | 0.070 | 0.029 | 0.293 | 0.047 |
| | Stdev | 0.018 | 0.113 | 0.131 | 0.215 | 0.158 | 0.216 | 0.061 | 0.026 | 0.259 | 0.042 |
| %Increase above BOT: | | | 506% | 610% | 632% | 629% | 929% | 650% | na | na | na |
| | | | | | | | | | | | |
| Cr | Rep 1 | 0.435 | 0.953 | 0.849 | 0.726 | 0.663 | 1.076 | 0.783 | 0.38 | 0.36 | 0.24 |
| | Rep 2 | 0.450 | 0.946 | 0.950 | 0.734 | 0.730 | 0.855 | 0.667 | 0.43 | 0.31 | 0.30 |
| | Rep 3 | 0.439 | 0.916 | 0.960 | outlier | 0.872 | 0.935 | 0.870 | 0.44 | 0.22 | 0.36 |
| | Mean | 0.441 | 0.939 | 0.920 | 0.730 | 0.755 | 0.955 | 0.773 | 0.417 | 0.298 | 0.298 |
| | 95% CI | 0.009 | 0.022 | 0.069 | 0.006 | 0.121 | 0.127 | 0.115 | 0.039 | 0.076 | 0.066 |
| | Stdev | 0.008 | 0.020 | 0.061 | 0.006 | 0.107 | 0.112 | 0.102 | 0.035 | 0.067 | 0.059 |
| %Increase above BOT: | | | 113% | 109% | 65.4% | 71.1% | 117% | 75.2% | na | na | na |
| | | | | | | | | | | | |
| tPAH | Rep 1 | 48.4 | 86.8 | 157.0 | 234.7 | 218.1 | 360.3 | 249.0 | 69.6 | 84.6 | 206.1 |
| | Rep 2 | 50.3 | 96.5 | 148.5 | 247.4 | 238.1 | 349.4 | 301.9 | 80.9 | 61.2 | 262.2 |
| | Rep 3 | 49.2 | 94.6 | 157.7 | 451.7 | 390.9 | 469.1 | 457.7 | 105.8 | 96.9 | 159.1 |
| | Mean | 49.3 | 92.6 | 154.4 | 311.3 | 282.3 | 392.9 | 336.2 | 85.4 | 80.9 | 209.1 |
| | 95% CI | 1.12 | 5.83 | 5.82 | 137.82 | 106.96 | 74.90 | 122.76 | 20.92 | 20.49 | 58.37 |
| | Stdev | 0.99 | 5.15 | 5.14 | 121.79 | 94.52 | 66.19 | 108.49 | 18.49 | 18.11 | 51.58 |
| %Increase above BOT: | | | 88% | 213% | 531% | 472% | 697% | 582% | na | na | na |
| | | | | | | | | | | | |
| tPCB | Rep 1 | 15.09 | 54.26 | 94.01 | 153.18 | 137.96 | 248.61 | 114.85 | 24.18 | 48.33 | 23.85 |
| | Rep 2 | 16.58 | 66.86 | 80.72 | 140.54 | 191.79 | 253.19 | 139.12 | 27.02 | 43.33 | 29.45 |
| | Rep 3 | 15.42 | 66.65 | 89.83 | 138.29 | 275.14 | 388.21 | 208.72 | 24.99 | 37.75 | 39.10 |
| | Mean | 15.7 | 62.6 | 88.2 | 144.0 | 201.6 | 296.7 | 154.2 | 25.4 | 43.1 | 30.8 |
| | 95% CI | 0.89 | 8.16 | 7.69 | 9.09 | 78.21 | 89.74 | 55.13 | 1.66 | 5.99 | 8.73 |
| | Stdev | 0.79 | 7.22 | 6.80 | 8.03 | 69.11 | 79.31 | 48.72 | 1.47 | 5.29 | 7.71 |
| %Increase above BOT: | | | 299% | 462% | 817% | 1184% | 1790% | 883% | | | |

### *4.5.2 Mercury Content in Mussel Tissues*

The content data (Table 15; Figure 14B) show a significant increase ($p < 0.0001$) in EOT mercury content at all stations when compared to the BOT value of 0.029 ug/mussel. EOT mercury content ranged from 0.107 ug/mussel at POP to 0.284 ug/mussel at POM. There were several significant differences in mercury content among the stations ($p < 0.0001$). As with mercury concentration, mercury content at SIRP and POM were significantly higher than at any other the other stations.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | | 2 | 7 | 6 | 3 | 5 | 4 |
| | BOT | POP | SNAV | SCIA | OBDI | SIRP | POM |
| Mean Hg content (ug/mussel): | 0.029 | 0.107 | 0.113 | 0.131 | 0.152 | 0.283 | 0.284 |

* = significantly different than BOT

Mean mercury content in indigenous mussels was generally lower than that determined for transplanted mussels (Table 15, Figure 14B).

### *4.5.3 Zinc Content in Mussel Tissues*

The content data (Table 15; Figure 16B) show a significant increase ($p < 0.0001$) in EOT zinc content at all stations when compared to the BOT value of 57.0 ug/mussel. EOT zinc content ranged from 117.6 ug/mussel at SIRP to 145.3 ug/mussel at OBDI. There were no significant differences in zinc content among the stations ($p = 0.0736$).

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | | 5 | 6 | 4 | 2 | 7 | 3 |
| | BOT | SIRP | SCIA | POM | POP | SNAV | OBDI |
| Mean Zn content (ug/mussel): | 57.0 | 117.6 | 118.5 | 120.9 | 124.8 | 127.3 | 145.3 |

* = significantly different than BOT

Mean zinc content in indigenous mussels was generally lower than that determined for transplanted mussels (Table 15, Figure 16B).

### *4.5.4 Arsenic Content in Mussel Tissues*

The content data (Table 15; Figure 18B) show a significant increase ($p < 0.0001$) in EOT arsenic content at all stations when compared to the BOT value of 5.00 ug/mussel. EOT arsenic content ranged from 9.51 ug/mussel at SIRP to 12.35 ug/mussel at OBDI. Only one significant difference was found in arsenic content among stations: SIRP was significantly lower than OBDI ($p = 0.0171$).

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | SIRP | POM | SCIA | SNAV | POP | OBDI |
| Mean As content (ug/mussel): | 5.00 | 9.51 | 9.90 | 10.22 | 10.17 | 11.95 | 12.35 |

* = significantly different than BOT

Mean arsenic content in indigenous mussels was lower than that determined for transplanted mussels (Table 15, Figure 18B).

### *4.5.5 Cadmium Content in Mussel Tissues*

The content data (Table 15; Figure 20B) show a significant increase ($p < 0.0001$) in EOT cadmium content at all stations except POM and SCIA when compared to the BOT value of 1.76 ug/mussel. EOT cadmium content ranged from 2.75 ug/mussel at SCIA to 4.80 ug/mussel at OBDI. Several significant differences ($p = 0.0016$) were found in cadmium content among stations, with three groupings. The lowest accumulations were found at SCIA, POM and SIRP, although SIRP was borderline with the low and middle group consisting of SIRP, SNAV, and POP. The high group consisted of POP and OBDI.

| | | | | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | SCIA | POM | SIRP | SNAV | POP | OBDI |
| Mean Cd content (ug/mussel): | 1.76 | 2.75 | 2.77 | 2.96 | 3.36 | 4.26 | 4.80 |

* = significantly different than BOT

Mean cadmium content in indigenous mussels was generally lower than that determined for transplanted mussels (Table 15, Figure 20B).

### *4.5.6 Nickel Content in Mussel Tissues*

The content data (Table 15; Figure 22B) show a significant increase ($p < 0.0001$) in EOT nickel content at all stations except SIRP when compared to the BOT value of 1.76 ug/mussel. In contrast to the concentration data, the content data show that all mussels accumulated some nickel. EOT nickel content ranged from 0.929 ug/mussel at SIRP to 1.363 ug/mussel at POP. Several significant differences ($p = 0.0011$) were found in nickel content among stations, with three groupings and considerable overlap between the groups. The lowest accumulations were found at SCIA, POM and NAV, the middle group consists of POM, SNAV, OBDI, and SCIA, and the last group consists of SNAV, OBDI, SCIA, and POP. SIRP was significantly lower than SCIA and POP.

| | | | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | | 5 | 4 | 7 | 3 | 6 | 2 |
| | BOT | SIRP | POM | SNAV | OBDI | SCIA | POP |
| Mean Ni content (ug/mussel): | 0.801 | 0.929 | 1.048 | 1.183 | 1.220 | 1.356 | 1.363 |

* = significantly different than BOT

Mean nickel content in indigenous mussels was lower than that determined for transplanted mussels (Table 15, Figure 22B).

### *4.5.7 Lead Content in Mussel Tissues*

The content data (Table 15; Figure 24B) show a significant increase ($p < 0.0001$) in EOT lead content at all stations when compared to the BOT value of 0.198 ug/mussel. EOT lead content ranged from 1.198 ug/mussel at POP to 2.033 ug/mussel at SCIA. Significant differences ($p = 0.0008$) were found in lead content among stations. Lead content at SCIA was significantly higher than at any other station.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | SIRP | POM | SNAV | SCIA |
| Mean Pb content (ug/mussel): | 0.198 | 1.198 | 1.404 | 1.440 | 1.447 | 1.483 | 2.033 |

* = significantly different than BOT

Mean lead content in indigenous mussels was lower than that determined for transplanted mussels (Table 15, Figure 24B).

### *4.5.8 Chromium Content in Mussel Tissues*

The content data (Table 15; Figure 26B) show significant increases ($p < 0.0001$) in EOT chromium content at all stations when compared to the BOT value of 0.441 ug/mussel. EOT chromium content ranged from 0.730 ug/mussel at POM to 0.939 ug/mussel at POP. No significant differences ($p = 0.0859$) were found in chromium content among stations.

| | | * | * | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POM | SIRP | SCIA | SNAV | OBDI | POP |
| Mean Cr content (ug/mussel): | 0.441 | 0.730 | 0.755 | 0.755 | 0.773 | 0.920 | 0.939 |

* = Significantly different than BOT

Mean chromium content in indigenous mussels was lower than that determined for transplanted mussels (Table 15, Figure 26B).

### *4.5.9 Silver Content in Mussel Tissues*

EOT silver content ranged from 0.024 ug/mussel at SCIA to 0.057 ug/mussel at OBDI. The content data (Table 15; Figure 28B) show that silver content increased significantly at OBDI and decreased significantly at SCIA and SNAV ($p < 0.0001$). Significant differences were found among silver contents at the end of the test ($p < 0.0001$). Silver contents at SCIA, SNAV, SIRP and POM formed a statistical grouping, and were less than the BOT value. Silver contents at POP and OBDI formed a second statistical grouping, and were higher than BOT.

| | | * | * | | | | * |
|---|---|---|---|---|---|---|---|
| | BOT | SCIA | SNAV | SIRP | POM | POP | OBDI |
| Mean Ag content (ug/mussel): | 0.037 | 0.024 | 0.025 | 0.028 | 0.029 | 0.044 | 0.057 |

* = Significantly different than BOT

Mean silver content in indigenous mussels was lower than that determined for transplanted mussels at all stations except IWP (Table 15, Figure 28B).

### *4.5.10 tPAH Content in Mussel Tissues*

EOT tPAH content ranged from 92.6 ng/mussel at POP to 393 ng/mussel at SCIA. The content data (Table 15; Figure 30B) show that tPAH content increased significantly at POM, SIRP, SCIA, and SNAV ($p = 0.0002$). Significant differences were found among tPAH contents at the end of the test ($p = 0.0055$. tPAH content at POP and OBDI were statistically similar; POP was significantly lower than all other stations. There was no significant difference among OBDI, SIRP, POM, SNAV, or SCIA.

| | | | | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | SIRP | POM | SNAV | SCIA |
| Mean tPAH content (ug/mussel): | 49.3 | 92.6 | 154 | 282 | 311 | 336 | 393 |

* = Significantly different than BOT

Mean tPAH content in indigenous mussels was generally lower than that determined for transplanted mussels at all stations except IPOM (Table 15, Figure 30B).

### *4.5.11 tPCB Content in Mussel Tissues*

EOT tPCB content ranged from 62.6 ng/mussel at POP to 297 ng/mussel at SCIA. The content data (Table 15; Figure 33B) show that tPCB content increased significantly at POM, SIRP, SCIA, and SNAV ($p < 0.0001$). Significant differences were found among tPCB contents at the end of the test ($p = 0.0008$). tPCB content at SCIA was significantly higher than POP, OBDI, POM, and SNAV. tPCB content at SIRP was significantly higher than POP.

| | | | | * | * | * | * |
|---|---|---|---|---|---|---|---|
| | BOT | POP | OBDI | POM | SNAV | SIRP | SCIA |
| Mean tPCB content (ug/mussel): | 15.7 | 62.6 | 88.2 | 144 | 154 | 202 | 297 |

* = Significantly different than BOT

Mean tPCB content in indigenous mussels was generally lower than that determined for transplanted mussels (Table 15, Figure 33B).

## 4.6 Tissue Chemistry of Indigenous Mussels

In general, the concentrations of chemicals in indigenous mussels were comparable to the transplanted mussels except for tPCBs where concentrations were considerably higher in the transplants, and silver where the concentrations were considerably higher in indigenous mussels (Tables 9, 10, 13). The ranges for each analyte are compared in Table 15. For As, Cd, Cr, Cu, Pb, Ni, tPAHs, and tPCBs, the range in concentrations in indigenous animals is contained within the range of the transplants. Zinc was the only analyte whose the range did not overlap. The range of Zn concentrations measured in transplants was 79 to 98 ug/g dw whereas the range of Zn concentrations measured in the indigenous animals was 140 to 195 ug/g dw. All Zn measurements of indigenous mussels were higher than any of the transplant measurements. However, it is the magnitude of the extremes that provides significant information, even if there is overlap in the range of measurements. The highest tPAH measurement in transplants (569 ng/g dw at SCIA) was considerably higher than the highest tPAH measurement in indigenous mussels (161 ng/g dw).

Table 16. Minimum and maximum mean concentration of each metal (ug/g dw), tPAH (ng/g dw), and tPCBs (ng/g dw) measured in the transplanted and indigenous mussels as part of this study, compared to NOAA's Mussel Watch data from the Puget Sound Region (Mearns 2001).

| | ***Transplants*** | | ***Indigenous*** | | ***NOAA - Puget*** | | ***Waterman Pt.*** |
|---|---|---|---|---|---|---|---|
| | Min | Max | Min | Max | Min | Max | Mean |
| As | 6.7 | 8.4 | 6.27 | 7.43 | 5.5 | 14 | 7.8 |
| Cd | 2.1 | 2.8 | 2.21 | 3.62 | 1.3 | 7 | 2.5 |
| Cr | 0.49 | 0.79 | 0.557 | 0.624 | 0.86 | 7.4 | 1.1 |
| Cu | 4.9 | 7.2 | 5.41 | 6.88 | 5.2 | 17 | 6.8 |
| Pb | 0.76 | 1.68 | 0.899 | 1.58 | 0.38 | 2.6 | 1.2 |
| Hg | 0.07 | 0.22 | 0.084 | 0.130 | 0.052 | 0.197 | 0.1 |
| Ni | 0.66 | 1.1 | 0.581 | 0.868 | 1.2 | 6.2 | 1.2 |
| Ag | 0.019 | 0.043 | 0.016 | 0.074 | <10 | 98 | 0.4 |
| Zn | 79 | 98 | 140 | 195 | 95 | 177 | 168 |
| tPAH | 61.5 | 324 | 127 | 412 | 174 | 32945 | 562 |
| tPCB | 42 | 244 | 38 | 80 | 24 | 533 | 176 |

For most chemicals, the concentrations measured in transplanted mussels were similar to those measured in indigenous mussels (Table 17). For zinc and silver, the concentrations in transplants were about half of that measured in the indigenous mussels. Concentrations of analytes in the transplants were never much higher than concentrations in the indigenous populations. The best comparisons can be made at SNAV and POM because the caged mussels were deployed in close proximity to the indigenous population collection sites. Ratios shown in Table 16 have been shaded to emphasize the similarities between indigenous and transplanted mussels. The shading shows that there are three general clusters: ratios greater than 1.5, ratios from 0.75 to 1.5, and ratios about 0.5. The majority of ratios fall into the 0.75 to 1.25 cluster, suggesting a similarity between transplant and indigenous mussels.

For SNAV/INAV the highest ratio measured was about 1.5 for nickel. The highest ratio for POM/IPOM was about 2 for mercury. Interestingly SNAV was only about half INAV for Zn. By contrast, while the ratio of SNAV to INAV was about 1 for silver, the transplants at POM were only about half of the resident POM population.

Table 17. Mean concentration of metals (ug/g dw), tPAHs (ng/g dw), and tPCBs (ng/g dw) in indigenous mussel tissues.

| | Indigenous Mussels | | | Mean | Mean | Ratio | Ratio | Ratio |
|---|---|---|---|---|---|---|---|---|
| | IWP | INAV | IPOM | Indigenous | Transplants | T/I* | SNAV/INAV | POM/IPOM |
| Cu | 5.68 | 6.88 | 5.41 | 5.99 | 5.51 | 0.92 | 0.76 | 0.96 |
| Hg | 0.084 | 0.130 | 0.111 | 0.108 | 0.129 | 1.19 | 0.66 | 1.96 |
| Zn | 152.3 | 195.3 | 140.3 | 163 | 89 | 0.55 | 0.49 | 0.66 |
| As | 7.43 | 6.38 | 6.27 | 6.69 | 7.53 | 1.13 | 1.20 | 1.20 |
| Cd | 3.62 | 2.74 | 2.21 | 2.86 | 2.41 | 0.84 | 0.92 | 0.96 |
| Ni | 0.868 | 0.581 | 0.679 | 0.709 | 0.847 | 1.19 | 1.54 | 1.18 |
| Pb | 0.968 | 1.577 | 0.899 | 1.15 | 1.09 | 0.95 | 0.71 | 1.23 |
| Cr | 0.624 | 0.557 | 0.568 | 0.583 | 0.64 | 1.10 | 1.04 | 1.01 |
| Ag | 0.074 | 0.016 | 0.045 | 0.045 | 0.023 | 0.51 | 1.17 | 0.50 |
| tPAHs | 127 | 151 | 412 | 230 | 193 | 0.84 | 1.66 | 0.57 |
| tPCBs | 38.1 | 80.4 | 58.3 | 58.9 | 117 | 1.99 | 1.43 | 1.87 |

*T/I = Transplants / indigenous

■ = ratios greater than 1.5; ■ = ratios from 0.75 to 1.5; □ = ratios about 0.5

## 4.7 Water Temperature

All water temperature monitors were retrieved except the one deployed at Reference Station 1 (Rich Passage). The temperature monitor attached to the cage at SNAV malfunctioned during deployment and did not record any data.

The mean, minimum, maximum, and range in water temperature at each station is provided in Table 18. Water temperature profiles for each station are shown in Figure 36; the daily average water temperatures and the range in daily water temperature (i.e., maximum minus minium) are shown in Figures 37A, B, respectively. Water temperatures for all stations in Sinclair Inlet (i.e, POM, SIRP, and SCIA) and POP had very similar profiles. Temperatures were lowest (i.e., approximately 12.5°C during the beginning of the test (i.e., mid-June) and increased steadily until the first part of August at which time water temperature appeared to stabilize at approximately 14.5°C. The water temperature profile at OBDI was similar to the others, but temperatures were always 2 to 3 degrees warmer (Figure 36).

The daily range in water temperature (Figure 37A) was greatest at POP. This wide fluctuation was associated with the greater tidal exchange of warmer water from Sinclair Inlet and colder water from the north. The daily ranges in water temperatures were somewhat alike for the remaining stations.

Table 18. Mean, minimum, maximum, and range in water temperature (°C).

| | Mean | Min | Max | Range |
|---|---|---|---|---|
| POP | 13.9 | 12.2 | 16.3 | 4.1 |
| OBDI | 15.5 | 13.8 | 17.0 | 3.2 |
| POM | 14.2 | 12.7 | 15.7 | 3.0 |
| SIRP | 14.2 | 12.8 | 15.9 | 3.1 |
| SCIA | 13.9 | 12.5 | 15.8 | 3.3 |

The statistical analyses conducted on both the average daily water temperatures and average daily range indicated several significant differences. However, there may be less environmental significance to these differences. Results indicated that the daily average water temperature was significantly higher at OBDI, when compared to all other stations, and that the range in daily temperature was significantly greater at POP, when compared to all other stations. These differences are demonstrated in Figures 37A, B.

Results of the statistical analyses also indicated that daily average water temperatures were different among all other stations except between POP and SCIA, and between POM and SIRP. The presence of these significant differences among stations within Sinclair Inlet is most likely due to the extremely large data set used in the analyses. On a given day, there was approximately 0.5°C difference in water temperature among these stations. The overall effect of one-half degree difference on mussel performance is probably insignificant.

## 4.8 Tissue Hazard Quotients ($HQ_{tiss}$)

The tissue hazard quotient is another way of expressing the relative risk associated with various chemicals of concern. In this case, the $HQ_{tiss}$ is defined as the EOT concentration of a given chemical in mussel tissues divided by the critical body residue (CBR) associated with possible adverse effects in mussels. It is used in much the same way as water effect ratios (WER) or sediment hazard quotients. The hazard quotient data (Table 19, Figure 38) show that only As, Cd, and PCBs were considered to pose a significant risk. Arsenic was determined to present a significant risk at all stations, cadmium at POP, and PCBs at SCIA. It should be emphasized that the relative risk is highly dependent on the accuracy of the estimated CBR, and that although there is some evidence to suggest that CBRs should be equipotent among species, for purposes of this report we are only attributing these effects levels to mussels or perhaps bivalves in general. It should also be acknowledged that based on the available data, some CBRs have more confidence than others.

Hazard quotients ranged from 3.38 at OBDI to 5.29 at SCIA and relative risks at these two stations were statistically significant. All the other stations could be considered to be similar, although there were slight differences between the lower risk group of POP and POM compared with the higher risk group of SNAV and SIRP. Relative risks at all stations was significantly higher than BOT; mussels from the Taylor United Mussel Farm (Shelton, WA) had an HQ of 2.24. In other words, even at the mussel collection site, there is a slight potential for risk. All of the indigenous mussels should be considered in the high risk group. We did not compare the indigenous mussels directly with the transplanted mussels because of differences in the size and age of the indigenous mussels, their exposure regime, handling procedures, and uncertainty

regarding the period of time chemicals in tissues represented. Nevertheless, relative risk at IPOM, IWP, and INAV was 3.85, 4.37 and 4.5 (Figure 39), respectively, and no statistically significant differences among stations were detected (p=0.418). At the two stations where transplanted and indigenous mussels were co-located, the residents were associated with a greater risk than the transplants. Similarly, arsenic was considered a significant risk at all indigenous stations just like the transplants. While cadmium was only considered a significant risk at POP, it was determined to be a significant risk at both IWP and INAV. The contribution of risk by chemical, on a percent basis, suggests that arsenic poses the highest risk to mussels at the monitoring stations (Figure 40).

Table 19. Calculated Hazard Quotients (HQ = [EOT]/[CBR], where EOT = end of test tissue concentration, and CBR = critical body residue or screening level based on previous studies.

| | Screening Level | BOT | POP | OBDI | POM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|---|---|---|
| As | 6.66 | 0.724 | 1.19 | 0.998 | 1.133 | 1.046 | 1.268 | 1.153 |
| Cd | 3.0 | 0.568 | 0.94 | 0.859 | 0.706 | 0.718 | 0.758 | 0.843 |
| Cr | 3.6 | 0.118 | 0.174 | 0.137 | 0.160 | 0.155 | 0.219 | 0.162 |
| Ci | 20 | 0.227 | 0.281 | 0.246 | 0.260 | 0.259 | 0.347 | 0.262 |
| Pb | 3.5 | 0.055 | 0.228 | 0.217 | 0.315 | 0.315 | 0.48 | 0.321 |
| Hg | 0.56 | 0.051 | 0.127 | 0.146 | 0.387 | 0.379 | 0.194 | 0.152 |
| Ni | 7.0 | 0.11 | 0.13 | 0.094 | 0.114 | 0.1 | 0.16 | 0.128 |
| Ag | 2.5 | 0.0141 | 0.0117 | 0.0119 | 0.0089 | 0.0083 | 0.0079 | 0.0075 |
| Zn | 200 | 0.275 | 0.415 | 0.393 | 0.461 | 0.433 | 0.489 | 0.48 |
| PAH | 2250 | 0.021 | 0.027 | 0.037 | 0.104 | 0.090 | 0.144 | 0.111 |
| PCB | 200 | 0.08 | 0.21 | 0.24 | 0.56 | 0.72 | 1.22 | 0.58 |
| Sum HQ | | 2.243 | 3.734 | 3.379 | 4.209 | 4.223 | 5.287 | 4.200 |

## 4.9 Correlation Matrix

The purpose of correlation analysis is to make inferences regarding the association between one variable and another. However, correlation does not necessarily establish causality. A correlation analysis may result in a significant correlation coefficient, but this does not mean that the two variables correlate at all. The observed correlation may be a coincidence. Correlation analysis also relies, at least in part, on the magnitude of the numbers, which do not necessarily reflect relative toxicity or bioavailability. Therefore, it might be appropriate to use something like the water effect, sediment effect ratio, or critical body residues to put these values in the appropriate ecotoxicological context. The tissue chemistry data should account for bioavailability, but not necessarily relative toxicity.

Correlation coefficients for each of the test parameters are shown in Table 20. For data evaluation purposes, correlation coefficients (r) above 0.7 (positive or negative) are considered potentially significant. Most of the mussel growth metrics were also highly correlated with each other and many of the metals were also highly correlated with each other. Mussel survival was negatively correlated with tissue concentrations of copper (r = -0.78), lead (r = -0.76), chromium (r = -0.75), and tPCB (r = -0.76), while positively correlated with EOT shell length (r = 0.74) and length growth rate (r = 0.77). EOT length and length growth rate were not correlated with any of the chemicals measured (all r values < 0.7). Lead was negatively correlated with three growth metrics; EOT WAWW (r = -0.76), WAWW growth rate (r = -0.77), and soft tissue weight (r = -0.87). Arsenic was not correlated with any of mussel growth metrics; cadmium

was only correlated with shell weight (r = 0.80). Interestingly, temperature was correlated with all mussel growth metrics except shell weight (r = 0.68). All WAWW metrics were negatively correlated with both tPAHs (r values ranged from -0.73 to -0.93) and tPCBs (r values ranged from -0.76 to -0.83).

Several of the mussel growth metrics were correlated to each other. EOT shell length and length growth rates were strongly correlated with EOT WAWW and WAWW growth rates, with correlation coefficients about 0.93. Shell length and length growth rate were also correlated with temperature (r = 0.71 and 0.72, respectively). All growth metrics were strongly correlated with percent lipids and percent solids, and the correlation coefficients ranged from 0.77 to 0.96.

Percent lipids and percent solids were highly correlated with each other (r = 0.88) and with seawater temperature (r = 0.81 and 0.94, respectively). Percent solids were not correlated with any chemical.

There were also several correlations between metals. Copper was highly correlated with arsenic (r = 0.84), nickel (r = 0.91), lead (r = 0.82) and chromium (r = 0.99). Mercury was negatively correlated with cadmium (r = -0.88). Lead was positively correlated with copper (r = 0.82), zinc (r = 0.85) and nickel (r = 0.74). tPAHs and tPCBs were strongly correlated with zinc (r = 0.93 and 0.79, respectively) and lead (r = 0.92 and 0.98, respectively), but negatively correlated with silver (r = -0.94 and -0.78). tPAHs and tPCBs were correlated to each other (r = 0.92).

Seawater temperature was most correlated with EOT WAWW (r = 0.86) and WAWW growth rate (r = 0.85) and least correlated with EOT length (r = 0.71) and length growth rate (r = 0.72). The correlation between temperature and tissue weight was intermediate (r = 0.76). Seawater temperature was only correlated with one chemical, As (r = -0.79).

Table 20. Results of correlation analyses on 2005 bivalve and tissue chemistry data.
Shaded cells ( )indicate potentially significant correlations.

| | Percent Survival | EOT Length | Length GR | EOT WAWW | WAWW GR | Tissue Wt. | Shell Weight | Cu | Hg | Zn | Ag | As | Cd | Ni | Pb | Cr | tPAH | tPCB | Water Temp | % lipids | % Solids |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Survival | 1.00 | | | | | | | | | | | | | | | | | | | | |
| EOT Length | ***0.74*** | 1.00 | | | | | | | | | | | | | | | | | | | |
| Length GR | ***0.77*** | ***0.99*** | 1.00 | | | | | | | | | | | | | | | | | | |
| EOT WAWW | 0.66 | ***0.92*** | ***0.93*** | 1.00 | | | | | | | | | | | | | | | | | |
| WAWW GR | 0.69 | ***0.92*** | ***0.94*** | 1.00 | 1.00 | | | | | | | | | | | | | | | | |
| Soft Tissue Wt. | 0.50 | 0.66 | ***0.70*** | ***0.89*** | ***0.89*** | 1.00 | | | | | | | | | | | | | | | |
| Shell Weight | 0.56 | ***0.91*** | ***0.91*** | ***0.92*** | ***0.93*** | ***0.82*** | 1.00 | | | | | | | | | | | | | | |
| Cu | ***-0.78*** | -0.48 | -0.54 | -0.61 | -0.62 | -0.58 | -0.32 | 1.00 | | | | | | | | | | | | | |
| Hg | -0.35 | -0.67 | -0.64 | -0.49 | -0.51 | -0.35 | ***-0.78*** | -0.20 | 1.00 | | | | | | | | | | | | |
| Zn | -0.42 | -0.47 | -0.53 | ***-0.75*** | ***-0.76*** | ***-0.96*** | -0.66 | 0.58 | 0.17 | 1.00 | | | | | | | | | | | |
| Ag | 0.28 | 0.47 | 0.50 | ***0.73*** | ***0.72*** | ***0.93*** | ***0.76*** | -0.33 | -0.41 | ***-0.89*** | 1.00 | | | | | | | | | | |
| As | -0.52 | -0.48 | -0.54 | -0.66 | -0.68 | -0.66 | -0.36 | ***0.84*** | -0.24 | ***0.70*** | -0.37 | 1.00 | | | | | | | | | |
| Cd | 0.56 | 0.63 | 0.63 | 0.57 | 0.60 | 0.58 | ***0.80*** | -0.11 | ***-0.88*** | -0.47 | 0.65 | 0.05 | 1.00 | | | | | | | | |
| Ni | -0.54 | -0.38 | -0.45 | -0.60 | -0.61 | -0.65 | -0.28 | ***0.91*** | -0.34 | ***0.71*** | -0.39 | ***0.97*** | 0.06 | 1.00 | | | | | | | |
| Pb | ***-0.76*** | -0.57 | -0.63 | ***-0.76*** | ***-0.77*** | ***-0.87*** | -0.64 | ***0.82*** | 0.19 | ***0.85*** | ***-0.77*** | 0.67 | -0.57 | 0.74 | 1.00 | | | | | | |
| Cr | ***-0.75*** | -0.55 | -0.60 | ***-0.70*** | ***-0.70*** | -0.67 | -0.40 | ***0.99*** | -0.16 | 0.67 | -0.40 | ***0.91*** | -0.12 | ***0.95*** | ***0.83*** | 1.00 | | | | | |
| tPAH | -0.54 | -0.52 | -0.57 | ***-0.74*** | ***-0.75*** | ***-0.93*** | ***-0.73*** | 0.56 | 0.36 | ***0.93*** | ***-0.94*** | 0.49 | ***-0.70*** | 0.55 | ***0.92*** | 0.60 | 1.00 | | | | |
| tPCB | ***-0.76*** | -0.60 | -0.64 | ***-0.76*** | ***-0.76*** | ***-0.83*** | -0.67 | ***0.77*** | 0.27 | ***0.79*** | ***-0.78*** | 0.55 | -0.64 | 0.63 | ***0.98*** | ***0.77*** | ***0.92*** | 1.00 | | | |
| Seawater Temp | 0.32 | ***0.71*** | ***0.72*** | ***0.86*** | ***0.85*** | ***0.76*** | 0.68 | -0.52 | -0.15 | -0.67 | 0.56 | ***-0.79*** | 0.13 | -0.69 | -0.51 | -0.65 | -0.49 | -0.45 | 1.00 | | |
| % lipids | 0.39 | ***0.84*** | ***0.83*** | ***0.92*** | ***0.91*** | ***0.85*** | ***0.96*** | -0.29 | -0.64 | -0.68 | ***0.80*** | -0.41 | 0.63 | -0.32 | -0.58 | -0.40 | -0.69 | -0.60 | ***0.81*** | 1.00 | |
| % Solids | 0.48 | ***0.88*** | ***0.89*** | ***0.93*** | ***0.93*** | ***0.77*** | ***0.84*** | -0.46 | -0.43 | -0.63 | 0.55 | -0.69 | 0.37 | -0.56 | -0.52 | -0.59 | -0.52 | -0.48 | ***0.94*** | ***0.88*** | 1.00 |

## 5.0 DISCUSSION

A risk assessment model (USEPA 1998) to characterize exposure and effects. The caged bivalve model is well suited to this approach because caged bivalves are relatively easy to collect, cage, and measure and because measuring accumulated chemicals is the best way to quantify bioavailable chemicals (ASTM 2001). The 2005 caged mussel study should be considered successful because it answered several key questions relative to exposure and effects and the ultimate ecological risk assessment such as those posed earlier:

- Are chemicals of concern entering Sinclair Inlet?
- Are these chemicals biologically available?
- Are these chemicals causing adverse effects?
- Are the chemicals associated with adverse effects related to PSNS and IMF activities?
- Are biologically available chemicals associated with current or past discharges?

At the most basic level, the caged mussels survived and they grew. They accumulated some chemicals of concern which could be related to chemicals in sediment and perhaps even water, helping to establish "zones of influence" over small spatial scales within Sinclair Inlet. It is clear that some of the accumulated chemicals, particularly at the stations within the PSNS and IMF complex (SNAV and SCIA) are associated with naval activities. At stations SIRP and POM, there appeared to be a different source for the elevated mercury, possibly a localized source or higher bioavailability of the mercury present at those locations. SIRP is particularly anomalous since chemicals in mussels caged there seem higher than they should be and yet they do not appear to be originating at either SNAV or SCIA.

The environmental significance of the results form this caged mussel study was quantified through the use of critical body residues used to link measured exposure and effects with an ecotoxicological interpretation (Widdows and Donkin 1992). This approach helps answer the *"So What"* question routinely asked about traditional monitoring results. Several conceptual models were used to help explain results from this caged mussel study. Perhaps the most important of these are 1) the caged bivalve model; 2) the tissue residue effects model; and 3) the effects range model. In a more general sense, the Exposure Dose Response Triad model (Salazar and Salazar 1998) was used to satisfy the requirements of characterizing exposure and effects necessary for any ecological risk assessment. Key to this is the need to characterize exposure by measuring chemicals in the three major environmental compartments; i.e., chemicals in water, sediment and tissues. There is a big difference between the sediment quality triad and the exposure dose response triad models because the sediment quality triad does not include measurements of chemicals in biota. This element is crucial to any credible ecological risk assessment.

Although not explicitly stated, implicit in the objective of this study were questions about the ability of the caged bivalve methodology to distinguish differences in bioaccumulation and growth among stations and over space and time. Statistically significant differences were found in mussel growth among stations, and between stations inside, and outside of Sinclair Inlet. Results are also consistent with results from other studies, such as dye dispersion studies, plume modeling, water and sediment monitoring, and a previous caged mussel study conducted in the same area as part of the RIFS.

### 5.1 Are chemicals of concern entering Sinclair Inlet?

This question is traditionally addressed by measuring chemicals in the major environmental compartments: i.e, water, sediments, and biota. Sinclair Inlet was identified as an area "high" in many chemicals of concern, and the PSNS/IMF complex is a Superfund Site as part

of the RIFS process and listed on the 303d list. In 1994 a caged bivalve study was conducted as part of the RIFS process. The caged bivalve study described in this report was conducted in 2005. Strategic deployment of mussels along suspected chemical gradients and potential sources were used to help answer questions regarding chemicals entering Sinclair inlet and their potential bioavailability. The caged mussel bioaccumulation data were evaluated along with chemicals in water, sediment, and indigenous species to identify sources and pathways of exposure.

This integrated analysis suggests that chemicals entering Sinclair Inlet are coming from sources along the shore, and perhaps from other parts of the watershed. More detailed studies by Project ENVVEST have been conducted by Battelle as part of an ongoing program to identify and model sources of chemical input to Sinclair Inlet. The purpose of a gradient design using caged bivalves is to rely on concentration gradients to identify the source of various chemicals. The same is true for water and sediment monitoring for source identification. Based on comparisons of chemical concentrations in mussels deployed at the reference stations (i.e., POP and OBDI), mussels within Sinclair Inlet had higher concentrations of all chemicals, except cadmium, suggesting that areas outside of Sinclair Inlet are not contributing to the mass of chemicals within the inlet. Concentrations of all chemicals in caged mussel tissues were higher in mussels deployed in Sinclair Inlet than in mussels deployed outside Sinclair Inlet. For both POP and OBDI, the concentrations of chemicals of concern (except cadmium) were always lower than those measured in caged mussels deployed in Sinclair Inlet. Mussels deployed at SCIA had the highest concentrations of most chemicals, suggesting a possible source in the vicinity of SCIA. Cadmium was the only chemical with higher concentrations measured in mussels deployed at POP and OBDI; the only statistically significant difference was between POP (2.8 ppm) and POM (2.1 ppm). Because the overall range in cadmium concentrations was so narrow (i.e., 2.12 to 2.82 ppm), and all mussels accumulated cadmium when compared to BOT, it appears that cadmium concentrations are fairly even across the areas monitored in this study, and POP does not appear to be a source to Sinclair Inlet. Perhaps we should have used stations closer to the other inlets and to the entrance to Sinclair Inlet and the NAVSTA/SCIA complex. It is important to note that SCIA was closest to other basins. It might be expected to observe higher dilution there due to incoming water which might be expected to be cleaner. However, there is no evidence that chemicals are coming from other basins.

## 5.2 Are chemicals of concern in Sinclair Inlet biologically available?

Measuring bioaccumulation is the link between mussels as indicators of external exposure (water and sediment) and internal exposure (bioavailable chemicals). Furthermore, it is important to make the distinction between “high” concentrations of chemicals and eocotoxicologically significant concentrations of chemicals. In short, all of the chemicals measured except silver are biologically available to some degree. The increases of most chemicals compared to BOT and among stations demonstrate that most of these chemicals are biologically available within Sinclair Inlet. The possible exception is silver as all caged mussels lost silver from their tissues. Mussels deployed at SCIA and SNAV lost nearly 50% of the silver during the deployment period. This is probably attributable to lower exposure concentrations of silver in both water and sediment. The interesting question is, why were silver concentrations in the mussels from the Taylor United Mussel Farm were higher than in Sinclair Inlet. In this case, we refer to “high” on a relative basis because the concentration at BOT clearly was not close to that associated with contaminated sites. The Mussel Watch National Mean is 0.284 ppm, about an order of magnitude higher than that measured at BOT, and the estimated CBR is about two orders of magnitude higher than that measured at BOT. Nevertheless, it raises an interesting question with respect to the source of silver at the mussel farm. Silver has been suggested as a tracer of sewage pollution (Martin et al 1988) but we are unaware of sewage sources in Totten Inlet. There may have also been some historical silver mining activity in the area.

## 5.3 Are these chemicals causing adverse effects?

We did not measure severe effects on growth at any station relative to other studies. We did measure statistically significant differences in growth when comparing stations within Sinclair Inlet and relative to reference sites. We also found statistically significant differences in tissue chemistry at various sites and identified possible adverse effects using critical body residues or tissue quality guidelines. Similar approaches have been used for water quality criteria and sediment quality guidelines.

### *5.3.1 Assessing Effects with Measured Growth Metrics*

There is a need to characterize and understand chemical exposure before characterizing and understanding effects. Survival and growth metrics were used to characterize effects. Growth was also used to help "calibrate" tissue chemistry results, and to evaluate whether the caged mussels meet performance criteria for a successful test. The ASTM Standard Guide suggests that if mussels lose more than 20% of their tissue weight that tissue chemistry results will have a high degree of uncertainty. This criterion was used for both the interpretation of tissue chemistry data and determining if the test met standardized performance criteria.

Changes in tissue mass (e.g., tissue growth) are used to"calibrate" bioaccumulation results. It is necessary to know if the mussel tissue mass increased or decreased during the study so that the apparent "increases" or "decreases" of chemicals in tissues are appropriately attributed to bioavailable chemicals and not to changes in tissue mass. If mussel growth rates are high relative to the rate of accumulation, it is possible that the added tissue will dilute the chemicals being accumulated and result in growth dilution (Reinfelder et al 1998). Alternatively, if mussel growth rates are low relative to the rate of accumulation or if mussels lose tissue mass, it is possible that the lost tissue mass will result in an artificial enhancement through de-growth magnification. Both growth dilution and de-growth magnification could lead to a questionable interpretation in terms of the environmental significance of measured tissue concentrations.

Survival was relatively high at all test sites, and therefore, it was not an extremely sensitive indicator of effects. The outlier of 17.9% represented predation upon the mussels by crabs and starfish. Including this value in the statistical analysis would not result in environmentally significant differences. Statistical analysis conducted without this outlier only resulted in a statistically significant difference between SCIA and SNAV. We believe that this difference is environmentally significant based on the growth, tissue chemistry, and sediment chemistry data. The more parameters evaluated, the more we were convinced that SCIA and SNAV were very different from each other.

Growth rates have always been a more sensitive indicator effects in our caged bivalve studies as they have generally been in laboratory toxicity testing. The most compelling evidence for differences in overall mussel health among stations is provided by ranking the various stations using all the mussel growth metrics. These results (Table 7) show the large difference between SCIA and SNAV. The data show that caged mussels at SCIA had the lowest performance ranking (9) and suggested the highest stress level associated with environmental conditions during the deployment period. Interestingly, next in order of summed ranks were SIRP and POM with ranks of 14 and 15, respectively. With a rank sum of 24, SNAV was separated from SCIA by 15 points and two other stations considered closer to SCIA. SNAV was the only station included in both the high stress and the low stress group. Also included in the low stress group were POP and OBDI (the two reference stations) with ranks of 28 and 36, respectively. It is

important to note that SNAV was considered much closer to the two reference stations than SCIA given their close proximity. It is generally assumed that SNAV/SCIA is similar in terms of environmental stress, but both the growth data and the tissue chemistry data show how very different these two stations are, even though separated by only 1100 meters.

We have previously encountered the effect of size and changes in tissue mass affecting measured tissue concentrations in a caged mussel study at the Harbor Island Superfund site (Salazar and Salazar 1995; Salazar et al 1995). Although this study utilized *Mytilus trossulus* rather than *Mytilus galloprovincialis* as in the 2005 caged mussel study, similar results have been reported in other studies. Results from this study document tissue burdens for chromium, copper and TBT along a contamination gradient with Carr Inlet being the reference site (CAR), Kellogg Island a moderately contaminated site (K01, K09), and the most contaminated site before remediation at Todd Shipyard (N07). These mussels were also caged about 1 meter above the bottom as in the 2005 caged mussel study. In the Harbor Island study, PCBs were quantified using Aroclor 1254, and there is not an easy or reliable method for converting Aroclor data to tPCB data. However, the ranges of Aroclors measured were between 1.2 to 22 ng/g dw (Table 21). This represents a 1x to 18x increase in tissue burdens as Aroclors over concentrations measured at the beginning of the test. These increases are similar to those measured in both the 1994 Remedial Investigation (10x to 15x) and the current caged mussel study (3x to 16x).

### *5.3.2 Assessing Effects with Measured Tissue Chemistry and Critical Body Residues and Risk with Hazard Quotients*

Ultimately, there is always a need for an ecotoxicological interpretation rather than monitoring chemicals in water, sediment, and biota. A benchmark is needed to interpret the environmental significance of those measured. Water quality criteria and sediment quality criteria are more well established because they have been used for a longer period of time than tissue quality guidelines and critical body residues (CBRs). However, this does not mean that the more established guidelines are more environmentally relevant. Tissue residue effects theory suggests that effects can be predicted based on critical or threshold tissue chemistry guidelines based on effects measured in other studies (McCarty 1998). Hazard quotients, which are based on tissue quality guidelines and include an ecotoxicological interpretation of the tissue residues, allow the relative risk to be determined for each station, and apportion the relative risk to each chemical at that station. Apitz (2007) has used a stacked hazard quotient approach with contaminated sediments to help express relative risk. A similar approach was used here, resulting in a statistically significant relationship between sediment quality guidelines, tissue quality guidelines, and mussel growth rates. Multiple linear regression analyses were used to help understand these relationships, even when the regressions may not have been statistically significant (Salazar et al 1995).

When compared to BOT tissue concentrations, the largest increases in transplanted mussel tissues occurred with mercury, lead, tPAH and tPCBs. This is not surprising since previous studies have identified these as chemicals of concern in the area (PSAMP 2000). It was surprising to find that the concentrations of copper and zinc, also identified as chemicals of concern at PSNS & IMF, were so low. With respect to the highest increases, it was surprising to find that the highest concentrations of mercury were not at the shipyard, suggesting mercury bioavailability may be greater outside the shipyard. Tissue concentrations at the POM and SIRP were about double those at the two Naval Station stations. Lead concentrations were significantly higher at SCIA, but lead was elevated throughout Sinclair Inlet, POP and OBDI. tPAHs were also elevated throughout Sinclair Inlet, but the concentrations again were highest at SCIA. On the other hand, concentrations at POP and OBDI were significantly lower than those in Sinclair Inlet and showed that these basins were not a source of PAH for Sinclair Inlet mussels. tPCBs were elevated throughout Sinclair

Inlet, but based on the high concentrations at SCIA and lower concentrations at other Sinclair Inlet, SCIA appeared to be a source of PCBs. As with tPAHs, the tPCB concentrations at POP and OBDI were much lower and did not appear to be a source. Although copper concentrations were also highest at SCIA, they appeared to be well below concentrations associated with adverse effects in mussels.

The summed hazard quotients provide the most compelling evidence that relative environmental risks at SCIA are different than at all other stations, including SNAV (Figure 38). The relative risk, determined by summing the individual HQs for each of the chemicals measured in this study, ranged from a low of 2.3 at BOT to a high of 5.4 at SCIA. The relative risk at SCIA was significantly different from all stations. From an ecotoxicological perspective, the concentrations of most chemicals were below predicted critical body residues even with the elevations when compared to BOT. This is important because of difficulties in comparing "reference" and "treatment" sites. At BOT, none of the chemicals had an HQ > 0.9, indicating there was not much risk associated with the chemicals in their tissues. The relative risk at BOT was significantly lower than all deployed mussels, indicating that chemicals accumulated during the deployment period caused these differences (Figure 38). Relative risk at OBDI was the lowest (3.42) and similar only to POP. Relative risks at POM, SNAV and SIRP were statistically similar, while POM was also statistically similar to POM. It is possible that the relative risks associated with chemical exposure would be different at these sites if other unmeasured chemicals (i.e., pesticides, nonylphenols, etc) were included in the hazard quotient (Widdows and Donkin 1992). It is unclear if the ranking of stations would be changed based on the inclusion of other chemicals.

The highest risks (HQ's > 0.9) at the end of the test, were associated with arsenic, cadmium, and tPCBs at some stations (Figure 38). PCBs were considered a statistically significant risk at SCIA and cadmium a statistically significant risk at POP. This is particularly interesting since POP was considered a reference station. However, all of the cadmium values were relatively close and ranged from 2.1 at POM to 2.82 at POP. In other words, this statistically significant difference may not be environmentally significant due to uncertainties in the CBR guideline, the somewhat arbitrary nature of the 0.9 cut off selected here, and the fact that all the cadmium tissue concentrations were so close.

Relative risk among indigenous mussels was 4.24 at IPOM, 4.60 at IWP, and 5.06 at INAV, and there were no statistically significant differences in relative risk among any of the indigenous mussels (Figure 39). When comparing deployed mussels to indigenous, POM and IPOM were virtually identical, while SNAV and INAV were substantially different.

The relative risk determined by summing the hazard quotients tell only part of the story, however. It is important to identify where the relative risks lie in order to manage these risks from different chemicals. At SCIA, for example, the percent relative risk of tPCBs and arsenic accounted for almost half of the total risk to mussels there (23% each). By comparison, percent relative risks associated with cadmium were only 14 and 9%, respectively. Percent relative risk for arsenic was relatively uniform across all stations, and ranged from a low of 23% at SCIA to a high of 32% at both BOT and POP. Percent relative risk associated with cadmium ranged from a low of 14% at SCIA to a high of 25% at BOT, OBDI, and POP. Percent relative risk associated with zinc was even more uniform across stations, ranging from a low of 9% at SCIA to a high of 12% at BOT. The largest variance in percent relative risk was associated with tPCBs, which ranged from a high of 23% at SCIA to a low of only 4% at BOT. In general, there was low relative risk associated with mercury, except at both POM and SIRP where it accounted for 9% of the total risk. Interestingly, the highest percentage risk for copper was at BOT (10%); all the other stations were between 6% and 7% and considered environmentally insignificant.

One of the advantages of the tissue residue approach used in this study is focusing on effects associated with accumulated tissue burdens of chemicals. Therefore, although some chemicals at lower environmental concentrations might be more biologically available, this is almost irrelevant in terms of effects associated with accumulated burdens. In this case, it is the internal dose that is most relevant and not the external dose in water or sediment.

The percent relative risk by station is shown for each chemical in Figure 40. It is important to remember the total risk by station in Figure 38 when considering these relative percent risks in that the relative percentages are kept in the proper perspective. As shown in Figure 38 for relative risk, it was not surprising to find that the relative percent risk by station was highest for arsenic, was relatively consistent across stations, and ranged from a low of 23% at SCIA to a high of 32% BOT and POP. Similarly, cadmium was relatively consistent across stations and ranged from a low of 14% at SCIA to a high of 25% at BOT, OBDI, and POP. Mercury accounted for 9% of the total risk at POM and SIRP and much lower percentages at all the other stations. Percent relative risk for zinc was the most consistent of all and ranged from a low of 9% at SCIA to a high of only 12% at BOT. Percent relative risk for zinc was 11% at OBDI, POP, POM and SNAV and only 10% at SIRP. PCB was the only chemical that showed an apparent gradient across stations and also showed the most variability among stations. The percent relative risk of PCB ranged from a low of only 4% at BOT to a high of 33% at SCIA. This, along with the total concentrations of PCB measured at SCIA suggest that it may be near a source of PCB in Sinclair Inlet.

## 5.4 Comparisons with Tissue Chemistry Measurements from Other Studies

We used weight of evidence and multiple lines of evidence to assess the relative risk associated with chemical accumulation measured as part of the 2005 caged mussel study. Part of that evidence was tissue concentrations measured in other studies (Puget Sound, the US, and around the world). It is important to compare tissue concentrations from other studies to put data from the current study in its proper perspective. The most pertinent studies relative to the results from this caged mussel study are listed below. The first three are caged mussel studies using the same methodology and were conducted by the same investigators. Results are summarized in Table 21. The last study is the ongoing NOAA Status & Trends Mussel Watch Program and results for Waterman Point between 1986 - 2004 are summarized in Table 22.

- 1994 Remedial Investigation for PSNS/IMF - comparisons between 1994 and 2005 Sinclair Inlet studies. The RIFS is important because it provides the best estimate of chemicals in mussel tissues measured by the same investigators and using the same methodology. To compare tissue chemistry from the 2005 caged mussel study and the 1994 Remedial Investigation/Feasibility Study (RIFS) caged mussel study where the same chemicals were measured, the 2005 stations were paired with the following RIFS stations based on proximity: SIRP with Station 488, POM with Station 489, SNAV with Station 490, and SCIA with Station 491. While all the 2005 PSNS/IMF/SCIA study sites were within the piers, the comparable RIFS study sites were outside of the piers and generally closer to mid-channel. The RIFS study sites were approximately 0.15 to 0.39 miles from the 2005 caged mussel sites. The 1994 Remedial Investigation for PSNS/IMF is important because of weight of evidence and multiple lines of evidence. In theory, this 1994 RIFS should have been the best study to compare the results with the current PSNS/IMF risk assessment because the RIFS used the same caged mussel methodology and measured many of the same chemicals. However, several differences made the comparisons difficult.

- Cherry Point 2000 Study - current discharges Port Orchard Passage

The 2000 Cherry Point Study conducted by Department of Natural Resources is important because caged

mussels were deployed at the Brownsville marina, in Port Orchard Passage approximately 7 miles north of POP, the station used for the 2005 Sinclair Inlet study. Mussel tissue chemistry and growth rates are available for comparison with the 2005 Sinclair Inlet Study. Bioaccumulation and growth results for the Cherry Point Study are summarized in Table 21.

• 1995 Harbor Island Caged Mussel Study - Comparative results at two Superfund sites

This study is important because it was the first study conducted in Puget Sound using what are now standardized protocols developed by investigators of the current study and through the consensus-based ASTM process. It also provides historical data on the magnitude of chemical exposures in sediment and tissues and past discharges at another Superfund site in Puget Sound. In the 1995 caged mussel study at the Harbor Island Superfund site, the mussels were deployed in contaminated sites approximately 1 meter off the bottom and results were compared between juvenile and adult mussels. We found a statistically significant relationship between chemicals in sediment, chemicals in tissues and mussel growth. It is important to note that *Mytilus trossulus* from the Penn Cove Mussel Farm was used in this study and there may be differences in bioaccumulation and growth among the different species compared in these various studies.

• Puget Sound Mussel Watch 1986 - 2004 - current versus past discharges (1986-2004)

The Mussel Watch data are important because it provides the best time series of chemicals in mussel tissues over the longest period of time. The best overview of bioavailable chemicals over space and time is provided by the NOAA Mussel Watch Data from Puget Sound (including Sinclair Inlet) although these data may not be directly comparable to the caged mussel data for reasons previously discussed. For the last 25 years, NOAA has been measuring mussel tissue chemistry in indigenous mussels at approximately 15 sites in the Puget Sound area (Table 22, Figure 41) as part of the NS&T Mussel Watch Program (O'Connor 1998). These data are important for comparative purposes because they provide both a regional and a national perspective on the relative concentrations measured during the 2005 caged mussel study. The data provide comparisons regarding temporal and spatial scales in the Puget Sound region. A table and a series of graphs for each chemical will be discussed separately below. Figure 42 shows the metals concentrations measured in mussel tissues collected as part of the NOAA Status and Trends Mussel Watch program (Mearns 2001). The relative positions of these collection sites are provided in Table 23 (Mearns 2001). tPAH data collected in 2001 (Mearns 2001) and the 2004/2005 sampling program (Kimbrough et al 2008) are provided in Figure 52. The ratios of region-to-coast median concentrations in indigenous mussels for sites in the Northwest Straits and sites in Puget Sound (Table 24).

Each of the following sections on specific chemicals are divided into four parts that discuss results with respect to 1) graphs showing the relative percent increase in each chemical for each station from BOT to EOT, 2) maps created by Mearns (2001) showing the actual concentrations measured by NOAA as part of the Status & Trends Mussel Watch Program, 3) mussel tissue chemistry graphs created as part of the Project ENVVEST to establish comparative baselines for exposure data, and 4) a series of graphs comparing results of 1994 RIFS caged mussel study to the current caged mussel study. Note that after 1994, NOAA stopped collecting three replicate samples in their Status & Trends program, so all data points since that time are based on only one value.

Table 21. Transplant history showing survival, bioaccumulation and growth for the Harbor Island Superfund Site, Puget Sound Naval Shipyard RIFS, Cherry Point-Puget Sound study, the Sinclair Inlet 2005 study, and other relevant studies to place the current study (i.e., Sinclair Inlet 2005) in the proper perspective using the same methodology by the same investigators. (Two values per cell = min and max for that parameter)

| Site | Dates | # Sites | Exposure in days (Time of year) | Temp Range (°C) | Species | Size Range (mm) | WAWW Growth Rate (mg/wk) | Length Growth Rate (mm/wk) | Total # | EOT Tissue Wt. (g wet) | % Survival | Cu ppm (ug/g dw) | Zn ppm (ug/g dw) | Pb ppm (ug/g dw) | Hg ppm (ug/g dw) | PAH ppb (ng/g dw) | PCB ppb (ng/g dw) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| San Diego Bay, CA | 1987-90 | 18 | 84<br>Jan/Sep | 12.6<br>26.8 | M. gallo | 10-12<br>50-70 | 17<br>505 | 0.21<br>2.4 | 2000<br>200 | 0.11<br>2.3 | 93<br>80 | 9<br>197 | 60<br>204 | 1.5<br>62 | 0<br>9.35 | 0<br>2000 | na |
| San Diego Bay, CA | 1993 | 6 | 85<br>Jul/Sep | 13.1<br>26.7 | M. gallo | 26-29 | 235<br>631 | na | 704 | 0.76<br>4.5 | 90 | 10<br>155 | 113<br>275 | 1.5<br>3.2 | na | 263<br>1535 | na |
| Harbor Island, WA | 1991 - 92 | 14 | 82<br>Oct/Jan | 8<br>12 | M. tross | 24-30<br>50-60 | 59<br>276 | 0.3<br>1.1 | 432<br>3300 | 0.6<br>1.35 | 72<br>88 | 0.92<br>3.01 | 16.0<br>22.1 | 0.07<br>0.52 | 0.04<br>0.04 | 36<br>597 | 1.2<br>22 |
| Sinclair Inlet, WA | 1994 | 8 | 90<br>Mar/Jun | 9<br>13 | M. gallo | 32-38 | 219<br>256 | 0.44<br>0.46 | 1500 | 2.1<br>2.3 | 96<br>100 | 1.6<br>3.7 | 13.3<br>21.9 | 0<br>2.85 | 0.05<br>0.10 | na | BDL<br>21 |
| Hylebos Waterway, WA | 1995 | 2 | 97<br>Mar/Jun | 8<br>12 | M. gallo | 44-49 | 216<br>260 | 0.24<br>0.28 | 300 | 3.9<br>4.2 | 84<br>98 | 11<br>12.5 | 90<br>110 | 1.9<br>3.8 | 0.065<br>0.085 | na | na |
| Cherry Point | 1998 | 12 | 28<br>May/Jun | 9.8<br>16.7 | M. gallo | 33-41 | 251<br>392 | 0.47<br>0.62 | 3510 | 2.1<br>2.6 | 3<br>82 | na | na | na | na | 110<br>435 | na |
| Cherry Point | 1999 | 44 | 60<br>Apr/Jun | 9.7<br>13.5 | M. gallo | 38-46 | 209<br>238 | 0.31<br>0.35 | 6885 | 2.7<br>3.0 | 47<br>71 | 5.74<br>12.0 | 77.9<br>103 | 0.34<br>0.95 | 0.057<br>0.098 | 156<br>530 | na |
| Cherry Point | 2000 | 52 | 60<br>Apr/Jun | 8.8<br>15.2 | M. gallo | 42-56 | 224<br>385 | 0.26<br>0.40 | 6579 | 3.5<br>5.9 | 75<br>100 | 7.59<br>10.4 | 73.1<br>88 | 0.38<br>0.61 | 0.024<br>0.050 | 168<br>730 | na |
| San Diego Bay, CA | 2002 | 5 | 82<br>Jul/Sep | 13.6<br>26.9 | M. gallo | 55-62 | 195<br>444 | 0.14<br>0.35 | 1008 | 4.9<br>6.9 | 79<br>91 | 8.07<br>108 | 84<br>163 | 0.44<br>1.25 | na | na | na |
| Santa Barbara CA, (channel) | 2003 | 6 | 58<br>Feb/Apr | na | M. gallo | 47-55 | 346<br>421 | 0.42<br>0.55 | 2585 | 3.2<br>4.8 | 92 | na | na | na | na | 63<br>163 | na |
| Sinclair Inlet | 2005 | 7 | 82<br>Jun/Sep | 12.2<br>15.5 | M. gallo | 49-53 | 548<br>836 | 0.57<br>0.76 | 1344 | 5.5<br>7.5 | 83<br>95 | 4.92<br>6.94 | 55<br>97.9 | 0.76<br>1.68 | 0.07<br>0.22 | 132<br>569 | 15.1<br>244 |
| Duwamish River | 2009 | 5 | 42<br>Aug/Sep | na | M. Gallo | 65-69 | 23<br>1292 | 0<br>0.98 | 168 | na | 71 | na | na | na | na | na | na |

na = not available

BDL = below detection limit

Table 22. Mean concentrations (metals: ug/g dw, organics: ng/g dw) of chemicals in mussel tissues from the mouth of Sinclair Inlet at Waterman Point (SIWP NOAA designator) between 1986 and 2004. Outliers are highlighted with grey and bolded, and excluded from calculated mean.

| | As | Cd | Cr | Cu | Pb | Hg | Ni | Ag | Zn | tPAH | tPCB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986 | 9.17 | 2.93 | 1.13 | 8.27 | 1.70 | 0.12 | 1.14 | 0.09 | 173 | | |
| 1987 | 7.83 | 3.10 | 1.96 | 7.60 | 1.25 | 0.11 | 1.86 | 0.21 | 190 | | |
| 1988 | 7.43 | 2.13 | 0.46 | 8.50 | 1.23 | 0.09 | 1.47 | 0.06 | 137 | | 193 |
| 1989 | 7.03 | 2.33 | 0.77 | 7.37 | 0.88 | 0.08 | 0.93 | 0.05 | 143 | 225 | 168 |
| 1990 | 7.80 | 2.78 | 0.59 | 6.56 | 1.11 | 0.11 | 0.99 | 0.07 | 177 | 458 | 296 |
| 1991 | 7.50 | 3.37 | 1.83 | 6.50 | 1.50 | 0.01 | 2.53 | 0.05 | 207 | 540 | 155 |
| 1992 | 6.32 | 1.96 | 1.68 | 5.66 | 0.85 | 0.08 | 0.89 | 0.04 | 160 | 378 | 144 |
| 1993 | 7.99 | 2.87 | 1.21 | 6.30 | 1.10 | 0.08 | 0.80 | 0.00 | 220 | 601 | 174 |
| 1994 | 7.65 | 2.62 | 1.14 | 6.37 | 1.55 | 0.08 | 0.68 | 0.04 | 220 | 205 | 91 |
| 1995 | no data for this sampling year | | | | | | | | | | |
| 1996 | 8.70 | 2.51 | 1.10 | 5.40 | 1.30 | 0.10 | 0.91 | 0.05 | 139 | 1553 | 251 |
| 1997 | no data for this sampling year | | | | | | | | | | |
| 1998 | 8.99 | 1.89 | 1.35 | 7.13 | 1.08 | 0.09 | 1.37 | 0.02 | 140 | 688 | 185 |
| 1999 | no data for this sampling year | | | | | | | | | | |
| 2000 | 9.11 | 2.19 | 0.78 | 7.57 | 0.83 | 0.10 | 1.12 | 3.48 | 142 | 645 | |
| 2001 | no data for this sampling year | | | | | | | | | | |
| 2002 | 7.60 | 2.06 | 0.60 | 5.47 | 0.88 | 0.12 | 0.75 | 0.07 | 131 | 325 | 106 |
| 2003 | no data for this sampling year | | | | | | | | | | |
| 2004 | 10.5 | 3.55 | 3.54 | 16.1 | 2.43 | 1.28 | 2.21 | 0.67 | 257 | 2000 | 163 |
| ***Mean*** | *7.78* | *2.52* | *1.12* | *6.82* | *1.17* | *0.10* | *1.19* | *0.06* | *168* | *452* | *175* |

Table 23. Code name, location description, county, latitude, longitude, and species sampled for 18 NOAA National Status and Trends, National Mussel Watch Program, sites in Washington and Oregon. M. = ***Mytilus***. Adapted from Mearns 2001.

| Site | General Location | Specific Location | County | N. Latitude | W. Longitude | Species |
|---|---|---|---|---|---|---|
| | | | ***COAST*** | | | |
| CRSJ | Columbia River | South Jetty | Clatsop | 46.2333 | 124.046 | *M. californianus* |
| CRNJ | Columbia River | North Jetty | Pacific | 46.2778 | 124.062 | *M. californianus* |
| WBMA | Willapa Bay | Nahcotta | Pacific | 46.5080 | 124.006 | *M. trossulus* |
| GHWJ | Grays Harbor | Westport Jetty | Grays Harbor | 46.9125 | 124.118 | *M. californianus* |
| JFCF | Juan de Fuca Strait | Cape Flattery | Clallam | 48.3883 | 124.721 | *M. californianus* |
| | | | ***NORTHWEST STRAITS*** | | | |
| PSPA | Puget Sound | Port Angeles | Clallam | 48.1397 | 123.417 | *M. trossulus* |
| PSPT | Puget Sound | Port Townsend | Jefferson | 48.1030 | 122.765 | *M. trossulus* |
| PSHC | Puget Sound | Hood Canal | Jefferson | 47.8317 | 122.687 | *M. trossulus* |
| BBSM | Bellingham Bay | Squalicum Jetty | Skagit | 48.7452 | 122.500 | *M. trossulus* |
| PRPR | Point Roberts | Point Roberts | Skagit | 48.9817 | 123.022 | *M. trossulus* |
| | | | ***PUGET SOUND BASIN*** | | | |
| SSBI | South Puget Sound | Budd Inlet | Thurston | 47.1005 | 122.912 | *M. trossulus* |
| CBTP | Commencement Bay | Tahlequah Point | Mason | 47.3358 | 122.502 | *M. trossulus* |
| PSSS | Puget Sound | South Seattle | King | 47.5288 | 122.399 | *M. trossulus* |
| EDBH | Elliott Bay | Duwamish Head | King | 47.5758 | 122.418 | *M. trossulus* |
| EBFR | Elliott Bay | Four-Mile Rock | King | 47.6392 | 122.412 | *M. trossulus* |
| ***SIWP*** | ***Sinclair Inlet*** | ***Waterman Point*** | ***Kitsap*** | ***47.5508*** | ***122.627*** | ***M. trossulus*** |
| WIPP | Whidbey Island | Possession Point | Island | 47.9025 | 122.380 | *M. trossulus* |
| PSEH | Puget Sound | Everett Harbor | Snohomish | 47.9738 | 122.237 | *M. trossulus* |

Table 24. Ratios of region-to-coast median concentrations in indigenous mussels for sites in the Northwest Straits and sites in Puget Sound. N = 4 for the coastal region. For ratios > 1, the regional median is higher than coastal. Data are grouped by similar ratios. Based on NOAA NS&T Mussel Watch data for 1997-1998 (Mearns 2001).

| Northwest Straits (N = 5) | | | Puget Sound (N = 7) | | |
|---|---|---|---|---|---|
| Rank | Analyte | Ratio | Rank | Analyte | Ratio |
| 1 | tPAHs | 4.1 | 1 | tPAHs | 5.8 |
| 2 | Pentachlorbenzene | 3.0 | 2 | tPCBs | 4.3 |
| 3 | Selenium | 1.2 | 3 | T1245CB | 3.0 |
| | | | 4 | Pentachlorobenzene | 2.7 |
| 4 | Zinc | 1.0 | 5 | Total Chlordane | 2.1 |
| 5 | Cadmium | 1.0 | 6 | Total HCH | 1.3 |
| 6 | tPCBs | 1.0 | 7 | Lipid (%) | 1.3 |
| 7 | Lead | 1.0 | 8 | T DDT | 1.1 |
| 8 | Nickel | 0.9 | 9 | Lead | 1.0 |
| 9 | Lipid (%) | 0.9 | 10 | Zinc | 1.0 |
| 10 | Manganese | 0.8 | 11 | Manganese | 1.0 |
| 11 | Total HCH | 0.8 | 12 | PP DDE | 1.0 |
| 12 | T1245CB | 0.8 | | | |
| 13 | T1234CB | 0.7 | 13 | Selenium | 0.8 |
| 14 | Copper | 0.7 | 14 | Cadmium | 0.8 |
| 15 | Arsenic | 0.6 | 15 | Copper | 0.7 |
| 16 | Silver | 0.6 | 16 | Arsenic | 0.7 |
| 17 | Mercury | 0.6 | 17 | Nickel | 0.7 |
| | | | 18 | Mercury | 0.6 |
| 18 | Aluminum | 0.5 | 19 | Chromium | 0.5 |
| 19 | T DDT | 0.5 | 20 | Silver | 0.4 |
| 20 | Chromium | 0.5 | 21 | Aluminum | 0.4 |
| 21 | Iron | 0.4 | 22 | Iron | 0.3 |

para-para dichlorodiphenyldichloroethylene (PP DDE )
Total hexachlorocyclohexane (Total HCH)
1,2,3,4-Tetrachlorobenzene (T1234CB)
1,2,4,5-Tetrachlorobenzene (T1245CB)
total Dichloro-Diphenyl-Trichloroethane (T DDT)

### *5.4.1 Copper*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, copper was not considered a significant risk at any caged mussel or indigenous station. 1) All the caged mussels accumulated copper during the deployment period, but the mean percent increase was only 21.3% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 13). 2) The maximum caged mussel concentration measured during this 2005 study was 6.9 ug/g dw, slightly more than half the national mean for indigenous mussels of 10.5 ug/g dw, measured by the NOAA Mussel Watch. 3) The mean copper concentration measured in caged mussels was about half the predicted critical body residue for copper. Furthermore, because there are more tissue chemistry data for copper associated with effects (or no effects) we are more confident in this number than any other.

This is important because the Navy is currently required to conduct NPDES monitoring of copper in their effluents. One uncertainty however is that water concentrations of copper are much more ephemeral than concentrations measured in more effective integrators of copper such as sediment and mussel tissues. Finally, sediment copper concentrations at all of the caged mussel stations (including the Sinclair Inlet stations) were below the Washington Department of Ecology (WDOE) standard for copper (390 ug/g dw; see sediment section). Copper, however, was the only chemical that exceeded this standard as part of the metals re-evaluation study (Kohn et al 2004).

Copper concentrations in indigenous mussels collected by NOAA in 1998 ranged from 5.2 ppm dw in Budd Inlet to 17 ppm dw at the Columbia River South Jetty (Figure 42, Mearns 2001). The highest concentrations were in mussels (*Mytilus californianus*) from the coast (range 10 to 17 ppm dw.) Copper concentrations from mussels in the Northwest Straits and Puget Sound were all below the national average of 11.9 ppm dw and at the low end of the national range of 5.2 to 22 ppm dw, whereas those from the coast were equal to or above the national average. Mussel copper concentrations displayed no systematic trend between 1986 and 1998 (Mearns 2001) or from our analyses of the data from 1986-2004 (Figures 43A,B). Interestingly, in the original research supporting the development of the NOAA Mussel Watch program, Freitas et al (1989) found statistically significant differences in tissue burdens of several metals and pesticides when *M. californianus* and *M. edulis* (really *M. trossulus*) were compared. Nevertheless, since the absolute concentrations were small, NOAA chose to treat these species as the same (O'Connor 1998). It seems reasonable to assume that if the exposure concentrations were higher as in many Puget Sound sites, that the differences would have been significantly greater. Monitoring data from both the NOAA Mussel Watch (Kimbrough et al 2008) and the California Mussel Watch (California State Water Resources Control Board 1995) also show differences in bioaccumulation patterns among the species used in their respective monitoring programs (*M. californianus*, *M. edulis*, *M. galloprovincialis*, and *M. trossulu*s. Other more detailed studies have shown significant differences in bioaccumulation, among *Mytilus* species to further support the assumption that there are significant differences among them (Kimbrough et al 2008, Martin and Severeid 1984, Mucklow 1996, Reyes 1995).

Copper tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 range from 5 to 10 ug/g dw (Figures 43A,B). Two apparent outliers were found; 45 ug/g dw in 1987 and 16.1 in 2004. The mean of 45 in 1987 was based on three data points (6.7, 120, and 8.5 ug/g dw). The 120 ug/g dw value was eliminated from the mean, as it appeared to be an outlier; the new mean of 7.6 is more in line with the other historical data (Table 22). In 2004, only one sample was collected and analyzed. The mussel tissue contained 16.1 ug Cu/g dw, which was approximately 2.4 times greater than the mean of 6.82 ug/g dw determined for samples collected between 1986 and 2002 (excluding 2004). Most of the metals analyzed in 2004 mussels were elevated

but the elevation appears to be an artifact because it seems unlikely that all of the metals would increase concomitantly. Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 43B). Although there appear to be two other outliers from other Puget Sound Sites, Waterman Pt. values were generally at the low end of all Puget Sound sites except in 2004 when it was at the high end but probably an outlier.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 43C). Copper concentrations in the 2005 caged mussel study at SIRP, POM, SNAV, and SCIA were within a factor of two than their respective RIFS stations in 1994. Interestingly, these concentrations were all lower than their respective RIFS stations in 1994. Similarly the 2005 tissue chemistry measurements from mussels at Waterman Point were about 20% lower (5.7 ug/g dw) than the mean value from NOAA Mussel Watch data at Waterman Point (7.0 ug/g dw), but very close to the mean of the caged bivalves at the RIFS stations (Figure 43C). This shows an apparent significant decrease in copper concentrations in Sinclair Inlet since the mid-1990's.

### *5.4.2 Mercury*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, mercury was not considered a significant risk at any caged mussel or indigenous station. 1) All caged mussels accumulated mercury during the deployment period and the mean percent increase was about a factor of four compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 15). 2) The maximum caged mussel concentration measured during the 2005 study was 0.22 ug/g dw, about 70% of the national mean of 0.184 ug/g dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean mercury concentration measured in caged mussels was 0.13 ug/g dw, about 25% of the predicted critical body residue for mercury of 0.56 ug/g dw. There are fewer tissue chemistry data for mercury associated with effects (or no effects), decreasing the confidence in the predicted critical body residue value. Finally, sediment mercury concentrations at all of the caged mussel stations (including the two reference stations) were all above the WDOE standard (0.41 ug/g dw; See sediment section).

Mercury was not considered a significant risk at any caged mussel or indigenous station. However, because mercury is so toxic these results too require additional scrutiny. Mercury concentrations in 1998 Puget Sound mussels, collected by NOAA, ranged fivefold from 52 ppb dw at the Westport Jetty to 254 ppb dw at the Everett Harbor site (Figure 42, Mearns 2001). With the exception of Everett Harbor, the range of mercury concentrations was similar in mussels from coastal sites (52 to 197 ppb dw), the Northwest Straits (85 to 160 ppb dw) and Puget Sound (64 to 149 ppb dw). Most of the concentrations in Washington were below the national mean of 184 ppb dw and toward the low end of the national range of 44 to 703 ppb dw (Mearns 2001).

Most of the mercury tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) between 1986-2004 range between 0.08 and 0.123 ug/g dw (Figures 44A,B). Again an apparent outlier was measured in 2004 at 1.28 ug Hg/g dw. As with copper and all the other chemicals, only one sample was measured, and it was more than an order of magnitude higher than the overall mean between 1986-2002 of 0.10 ug Hg/g dw (Table 22). Most of the metals analyzed in 2004 mussels were elevated but the elevation appears to be an artifact because it seems unlikely that all of the metals would increase concomitantly. Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 44B). Without the Waterman Pt. outlier in 2004 (an order of magnitude above the

mean from all other years), Waterman Point data were generally between the low end middle of values from the other sites.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 44C). In the 2005 study, mercury concentrations at SIRP were approximately 4X greater than that measured in the 1994 RIFS. The 2005 POM results were approximately 2X greater than the RIFS. However, concentrations measured at SNAV and SCIA were virtually identical to those measured in the 1994 RIFS. The 2005 tissue chemistry measurements from mussels at Waterman Point were virtually identical (0.08 ug/g dw) to the mean value from NOAA Mussel Watch data at Waterman Point (0.10 ug/g dw). The 2005 Waterman Point data were also very similar to the mean of the caged bivalves at the RIFS stations (Figure 44C), with the exception of RIFS Station 488 which was about half this value at 0.05 ug/g dw. It should be remembered that all of the RIFS sampling stations were located in the middle of Sinclair Inlet where concentrations were expected to be lower.

### *5.4.3 Zinc*

Based on the relative percent increase graphs, zinc was not considered a significant risk at any caged mussel or indigenous station for several reasons. 1) All the caged mussels accumulated zinc during the deployment period but the mean percent increase was only about 60% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 17). 2) The maximum caged mussel concentration of zinc measured during the 2005 study was 98 ug/g dw, about 70% of the national mean of 127 ug/g dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean zinc concentration measured in caged mussels was 89 ug/g dw, about half the predicted critical body residue for zinc of 200 ug/g dw. There are several tissue chemistry data for zinc associated with effects (or no effects), heightening the confidence in this value. Finally, sediment zinc concentrations at all of the caged mussel stations (including the Sinclair Inlet stations) were below the WDOE standard (410 ug/g dw; See sediment section).

Zinc was not considered a significant risk at any caged mussel or indigenous station. Based on the 1998 data collected by NOAA, there was a two-fold difference in zinc concentrations within Puget Sound (Figure 42, Mearns 2001). Zinc concentrations in 1998 Puget Sound mussels ranged from a low of 72 ppm dw at Waterman Point, Sinclair Inlet, to a high of 177 ppm in the Everett Harbor mussels. With the exception of the Sinclair Inlet site, zinc concentrations appeared to be comparable among the three geographic areas. Concentrations of zinc in Puget Sound mussels were within the national range of 62 to 246 ppm dw.

Most of the zinc tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) between 1986-2004 range from 131 and 220 ug/g dw (Figures 45A,B). A possible outlier was measured in 2004 at 257 ug Zn/g dw. As with copper and all the other chemicals, only one sample was measured. However, it was more difficult to designate this value as an outlier because similar measurements were reported in both 1993 and 1994 (220 ug/g dw). More telling is the relative constant trend between 1994 and 2002 where zinc concentrations were 139, 140, 142, and 131 ug/g dw (Table 22). Finally, the 2004 value of 257 ug/g dw was almost double the 2002 value of 131 ug/g dw. We believe that the 2004 value was probably an outlier but we will leave the final decision to the reader of this report. Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 45B). Unlike the copper and mercury data which were generally lower than most Puget Sound sites, Waterman Point data for zinc were generally at the high end of other Puget Sound sites.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 45C). Zinc concentrations in the 2005 caged mussel study at SIRP, POM , SNAV, and SCIA were very close to their respective 1994 RIFS stations. Similarly, the 2005 tissue chemistry measurements from mussels at Waterman Point were virtually identical (152 ug/g dw) to the mean value from NOAA Mussel Watch data at Waterman Point (170 ug/g dw), and higher than the mean of the caged bivalves in both the 2005 and the 1994 RIFS caged mussel studies (Figure 45C). As suggested previously, the RIFS stations would be expected to have lower concentrations because of their location in the middle of Sinclair Inlet.

### *5.4.4 Arsenic*

Based on the estimated benchmark CBR of 6.66 ug/g dw, arsenic was considered a significant risk at all caged mussel and indigenous stations. 1) All the caged mussels accumulated arsenic during the deployment period but the mean percent increase was only about 60% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 19). 2) The maximum caged mussel concentration of arsenic measured during the 2005 study, 8.4 ug/g dw, was about 70% of the national mean of 10.5 ug/g dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean arsenic concentration measured in caged mussels, 7.53 ug/g dw, was about 10% over the predicted critical body residue concentration for arsenic of 6.7 ug/g dw. However, because there are few tissue chemistry data for arsenic associated with effects (or no effects), we are not very confident in this number and believe that the critical body residue for arsenic is probably too conservative. Finally, sediment arsenic concentrations at all of the caged mussel stations (including the Sinclair Inlet stations) were below the WDOE standard (57 ug/g dw; See sediment section).

Therefore, based on weight of evidence, and multiple lines of evidence in the relative percent increase graphs, arsenic should not be considered a significant risk at every caged and indigenous mussel station The mean BOT value (4.82 ug/g dw) was the only value which was significantly different only from SCIA. Furthermore, both BOT and EOT measurements are in the range of all arsenic studies we could find in the US and around the world. In a mid-Atlantic study measuring arsenic in *Mytilus edulis*, Greene and Crecelius (2006), total arsenic varied between 4.65 and 7.65 ug/g dw. In another study which also measured arsenic in *Mytilus edulis*, values ranged from 6.5 to 14.0 ug/g dw. Even higher measurements were found in the marine clam *Meretrix lusoria* where values ranged between 1.05 and 16.25 ug/g dw (Liu et al 2007). This study is particularly important because these clams were being farmed for human consumption! Several other studies have also shown that inorganic arsenic concentrations in deposit-feeding clams generally exceeds those found in epibenthic bivalves such as mussels, oysters, and scallops and attribute this to ingestion of larger quantities of arsenic-contaminated sediments.

Inorganic arsenic is of less concern because it is the predominant form of arsenic in water and sediment while the predominant form in organisms is organic arsenic due to methylation in biological systems (Liu et al 2007). Organic arsenic is generally considered much less toxic inorganic arsenic. Most studies have shown that inorganic arsenic only comprises about 1 to 10% of the total arsenic in marine bivalves (Airas et al 2004, Greene and Crecelius 2006, Liu et al 2007).

The 1998 NOAA Mussel Watch data show tissue arsenic concentrations that varied by about threefold, ranging from 5.5 ppm dw at Possession Point (Whidbey Island) to 14.0 ppm dw at Cape Flattery (Figure 42). Arsenic concentrations were higher in mussels collected from the coast (6.2 to 11 ppm dw) than in Puget Sound (5.5 to 7.8 ppm dw) or the Northwest Straits (6.3 to 8.3 ppm dw). The three highest concentrations were from coastal samples of the California mussel, *Mytilus californianus*. With the

exception of Cape Flattery, Puget Sound mussels generally contained lower concentrations of arsenic than the national mean of 10.5 ppm dw (range 4.8 to 23.7 ppm dw). There were no obvious long-term trends in arsenic from 1986 to 1998 in the Puget Sound (Mearns 2001). We extended the database considered by Mearns (2001) to include all the data for Waterman Point (the only Mussel Watch station in Sinclair Inlet and about 3.7 miles from SCIA) and confirmed that there were no obvious trends in arsenic or any other metal at Waterman Point.

Most of the arsenic tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 range from 6.32 to 9.17 ug/g dw (Figure 46A). A possible outlier, 10.5 ug As/g dw, was measured in 2004. It was more difficult to designate this value as an outlier because only one sample was measured and similar values (9.17 ug/g dw and 9.11 ug/g dw) were reported in 1986 and 2000, respectively. The 2004 value of 10.5 ug/g dw is about 40% above the 2002 value of 7.6 ug/g dw, suggesting it may be an outlier (Table 22). Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 46A). Unlike the copper, mercury and zinc data which were generally higher or lower than most Puget Sound sites, Waterman Point data for arsenic were generally highly variable with respect to measurements at other Puget Sound sites.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 46B). Arsenic concentrations in the 2005 caged mussel study at SIRP, POM, SNAV, and SCIA were two to four times higher than their respective RIFS stations in 1994. While it might be concluded that concentrations of arsenic have increased dramatically over the last 10 years, it seems more likely that concentrations were higher because the mussel cages were within the pier areas in 2005 rather than closer to the center of the channel in the 1994 RIFS. The 2005 Waterman Point sample taken from indigenous mussels as part of the caged mussel study (7.4 ug/g dw) and the mean Waterman Point concentrations between 1986 and 2004 (7.8 ug/g dw) were virtually identical.

### *5.4.5 Cadmium*

Based on the relative percent increase graphs, there was an indication of possible risk for cadmium only at one of the caged mussel stations – the reference station POP. This may be attributed to the fact that we used a conservative estimate of risk at 90% of the critical body residue. 1) All the caged mussels accumulated cadmium during the deployment period (Figure 20A), but the mean percent increase was only 41.6% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 21). 2) The mean caged mussel concentration of cadmium measured during the 2005 study was 2.41 ug/g dw, about 90% of the national mean of 2.68 ug/g dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean cadmium concentration measured in all caged mussels, 2.41 ug/g dw, was below the critical body residue value of 3 ug/g dw. However, because there are few tissue chemistry data for cadmium associated with effects (or no effects) we are not very confident in this number and believe that the critical body residue for cadmium is uncertain. Finally, sediment cadmium concentrations at all of the caged mussel stations (including the Sinclair Inlet stations) were well below the WDOE standard (5.1 ug/g dw; See sediment section).

There was an indication of risk from cadmium only at POP and the indigenous stations IWP and INAV. Cadmium concentrations in mussels collected in 1998 by NOAA Mussel Watch also varied about threefold, ranging from a low of 1.3 ppm dw at Four Mile Rock in Elliot Bay to 7.0 ppm dw at Cape Flattery (Figure 42). The second highest concentration, 5.4 ppm dw, was measured in mussels collected at Port Angeles. By contrast, the second lowest concentration, 1.6 ppm, was measured in mussels

collected inside Puget Sound at Possession Point. Cadmium concentrations in Puget Sound mussels were similar to the national mean of 2.66 ppm dw and well within the national range of 0.4 to 10.4 ppm dw (Mearns 2001).

Most of the cadmium tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 range from 1 to 20 ug/g dw (Figure 47A). Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 47A). Unlike the copper, mercury and zinc data which were generally higher or lower than most Puget Sound sites, Waterman Point data for cadmium were generally highly variable with respect to measurements at other Puget Sound sites. Similarly, the cadmium data for POP were also more variable than at the other caged mussel stations. This variability in replicate data at selected stations may be associated with cadmium's strong affinity to organic matter; there may have been patchiness in organics at POP and the indigenous collection locations that affected the accumulation of cadmium by mussels .

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 47B). Cadmium concentrations in the 2005 caged mussel study at SIRP, POM, SNAV, and SCIA were a factor of two or less of the concentrations measured in the 1994 RIFS at their respective stations. Interestingly, these concentrations were all lower than their respective RIFS stations in 1994. Similarly the 2005 tissue chemistry measurements from mussels at Waterman Point were about 50% higher (3.6 ug/g dw) higher than the mean value from NOAA Mussel Watch data at Waterman Point (2.5 ug/g dw) but very close to the mean of the caged bivalves at the RIFS stations (Figure 47B). These data suggest a reduction in cadmium exposure between 1994 and 2005.

### *5.4.6 Nickel*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, risk from nickel was not indicated at any caged or indigenous mussel station. 1) All the caged mussels accumulated nickel during the deployment period except OBDI and SIRP where they lost approximately 15% and 9% of their tissue burden, respectively. The mean percent increase was only about 10% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 23). 2) The mean caged mussel concentration of nickel measured during the 2005 study was 0.85 ug/g dw, about 30% of the national mean of 3.1 ug/g dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean nickel concentration measured in caged mussels was 0.85 ug/g dw, only about 10% of the predicted critical body residue for nickel of 7 ug/g dw. However, because there are few tissue chemistry data for nickel associated with effects (or no effects), there is less confidence in this value, and the critical body residue for nickel may be uncertain. A WDOE has not published a sediment nickel standard, which also adds to the uncertainty of the predicted critical body residue value. The lower effects level (LEL) and severe effect level (SEL) for nickel are 16 ug/g dw and 75 ug/g dw, respectively (MacDonald et al 2000). The sediment nickel concentrations measured at the caged mussel stations ranged between roughly 40 ug/g dw and 60 ug/g dw and are near the probable effects level (PEL) for sediment. (See Sediment Section)

Nickel concentrations in 1998 Puget Sound mussels collected by NOAA Mussel Watch ranged less than threefold from a low of 1.2 ppm dw in mussels from Budd Inlet to a high of 6.2 ppm at the Squalicum Marina Jetty in Bellingham (Figure 42, Mearns 2001). Ranges of concentrations were generally comparable in mussels from coastal sites (2.8 to 5.8 ppm dw), the Northwest Straits (1.5 to 6.2 ppm dw) and Puget Sound (1.2 to 5.7 ppm dw). There was apparently no temporal trend in nickel concentrations

between 1986 and 1998 (Mearns 2001).

Most of the nickel tissue chemistry data for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 range from 0.75 to 1.86 ug/g dw (Figure 48A). Two mean values were substantially higher than other nickel data, and are considered outliers for purposes of calculating an overall mean (Table 22). Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 48A). The Waterman Point data for nickel were generally at the low end with respect to measurements at other Puget Sound sites.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 48B). Nickel concentrations in the 2005 caged mussel study at SIRP, POM, SNAV, and SCIA were about a factor of five less than the concentrations measured in the 1994 RIFS at their respective stations. Interestingly, these concentrations were all lower than their respective RIFS stations in 1994. The 2005 tissue chemistry measurements from indigenous mussels at Waterman Point (0.87 ug/g dw) were very similar to the mean value from NOAA Mussel Watch data at Waterman Point (1.2 ug/g dw) and very close to the mean of the caged bivalves at the 2005 caged mussel stations. Figure 48B suggests a decrease in nickel exposure when the 1994 and 2005 data are compared.

### *5.4.7 Lead*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, risk from lead was not indicated at any caged mussel or indigenous station. 1) All the caged mussels accumulated lead during the deployment period, but lead increased by about a factor of five compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 25). 2) The mean caged mussel concentration of lead measured during the 2005 study was 1.09 ug/g dw, less than half the national mean for indigenous mussels of 2.68 ug/g dw measured by the NOAA Mussel Watch (Figure 25, Mearns 2001). 3) The mean lead concentration measured in caged mussels was only about one third of the predicted critical body residue for lead. However, because there are few tissue chemistry data for lead associated with effects (or no effects), there is less confidence and more uncertainty in this value. Finally, sediment lead concentrations at all of the caged mussel stations (including the Sinclair Inlet stations) were well below the WDOE standard (450 ug/g dw; See sediment section).

Although all mussels showed a large increase in lead accumulation when compared to the BOT value, there was no indication of risk from lead. This points to the importance of an ecotoxicological interpretation. Nevertheless, because of the large elevations, additional scrutiny is required to confirm these results. In the 1998 NOAA Mussel Watch study, lead concentrations varied about 10X, ranging from 0.38 ppm dw at Port Angeles to 3.5 ppm dw at Everett Harbor (Figure 42, Mearns 2001). With the notable exception of Everett Harbor, the ranges of lead were similar in mussels from the coast, the Northwest Straits and Puget Sound. Concentrations of lead in Puget Sound mussels were generally below the national average of 1.7 ppm dw and at the lower end of the national range of 0.22 to 11.6 ppm dw (Mearns 2001).

Most of the lead tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 range from 0.85 to 1.3 ug/g dw (Figure 49AB, Table 22). One possible outlier was measured in 2004 (2.43 ug/g dw) and another in 1987 (a mean of almost 5 ug/g dw). Closer inspection of the 1987 data show that this mean was calculated based on three replicates of 1.3,

12, and 1.2 ug/g dw. We believe that the 12 ug/g dw value should be considered an outlier and discarded. The resulting mean would be 1.25 ug/g dw (Table 22). Additional insight is gained by comparing the SIWP data with other Puget Sound sites. The Waterman Point data for lead were generally at the high end with respect to measurements at other Puget Sound sites (Figure 49A,B).

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 49C). In the 1994 RIFS, lead was only detected at Station 489. It was reported as non-detected at the other three stations in Sinclair Inlet. The concentration reported for Station 489 was about twice that measured in mussels in the 2005 study. The 2005 lead concentrations for mussels from Waterman Point were virtually identical (0.97 ug/g dw) to the mean value from the NOAA Mussel Watch data at Waterman Point (1.2 ug/g dw), and also very close to the mean of the caged bivalves at the RIFS stations (Figure 49C).

### *5.4.8 Chromium*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, there was no indication of risk from chromium exposure at any caged mussel or indigenous station. 1) All the caged mussels accumulated chromium during the deployment period, but chromium only increased by about 40% compared to the concentrations measured in mussels from the relatively pristine mussel farm (Figure 27). 2) The mean caged mussel concentration of chromium measured during the 2005 study was 0.60 ug/g dw, one-sixth of the national mean for indigenous mussels of 3.72 ug/g dw measured by the NOAA Mussel Watch (Mearns 2001). 3) The chromium concentration measured in caged mussels (0.60 ug/g dw) was also about one-sixth of the predicted critical body residue for chromium of 3.6 ug/g dw (Martin and Severeid, 1984). Even though the estimated CBR for chromium of 3.6 ug/g dw may have some uncertainty, it is interesting to note that this value is very close to the national mean for indigenous mussels of 3.72 ug/g dw.

No indication of risk from chromium exposure was measured at any caged mussel or indigenous station. Chromium concentrations in mussels collected from Puget Sound in 1998 as part of the NOAA Mussel Watch study varied a factor of three, ranging from a low of 0.86 ug/g dw at the station in Port Angeles to 4.5 ppm in mussels from the Columbia River South Jetty (Mearns 2001, Figure 42). Coastal concentrations of chromium were higher than those in mussels sampled from the interior regions of Puget Sound. The Puget Sound chromium concentrations were comparable to the national average of 3.72 ug/g dw and range from 0 to 17.4 ug/g dw (Mearns 2001). Finally, sediment chromium concentrations at all of the caged mussel stations, including the Sinclair Inlet stations, were about half the WDOE standard (260 ug/g dw; See sediment section).

Most of the chromium tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 ranged from 0.46 to 1.96 ug/g dw (Figure 50A, Table 22). A probable outlier was measured in 2004 at 3.54 ug/g dw. This value should be discarded, resulting in a new mean of 1.12 ug/g dw (Table 22). Furthermore, the trend between 1998, 2000, and 2002 is consistently decreasing from 1.35, 0.779, and 0.601, respectively. Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 50A). The Waterman Point data for chromium were generally at the low end with respect to measurements at other Puget Sound sites.

For corresponding stations, tissue chemistry data from the 1994 RIFS study (URS 1994) and the current 2005 caged mussel study were compared to the mean Waterman Point data from NOAA (Figure 50B). In

the 1994 RIFS, chromium concentrations were about an order of magnitude higher than chromium concentrations measured in the 2005 caged mussel study. The 2005 chromium concentrations for indigenous mussels from Waterman Point were about half (0.62 ug/g dw) to the mean value from the NOAA Mussel Watch data at Waterman Point (1.1 ug/g dw), and also very close to the mean of the caged bivalves at the RIFS stations (Figure 50B). The comparison between the 1994 RIFS data and this 2005 mussel study indicate a decrease in chromium exposure.

### *5.4.9 Silver*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, there was no indication of risk from silver exposure at any caged mussel or indigenous station. 1) All the caged mussels lost silver during the deployment period (Figure 29). 2) The maximum caged mussel concentration measured during the 2005 study was 0.030 ug/g dw a factor of six less than the national mean of 0.284 ugug dw for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean silver concentration measured in caged mussels was 0.02 ug/g dw, two orders of magnitude lower than the predicted critical body residue for silver of 2.5 ug/g dw. Finally, sediment silver concentrations at all of the caged mussel stations (including the Sinclair Inlet stations between about 1 and 2 ug/g dw) were well below the WDOE standard (6.1 ug/g dw; See sediment section).

Since all the caged mussels lost silver during the exposure period, it is probably of less concern than any other metal. Silver concentrations in 1998 Puget Sound mussels collected as part of the NOAA Mussel Watch study ranged by a factor of 10 or more from lows of < 10 ppb dw at Four Mile Rock and Duwamish Head in central Puget Sound, and the Columbia River South Jetty, to a high of 98 ppb dw in mussels from Cape Flattery (Mearns 2001, Figure 42). All silver concentrations in Puget Sound mussels were far below the national average concentration of 284 ppb dw (range < 10 to 4,940 ppb dw). Although there appears to be a tendency for higher silver concentrations in mussels from the coast compared to the Straits or the Sound (differences in accumulation between *M. californianus* and *M. trossulus*), there were no clear regional differences with one exception: silver was not measured above the detection limit of 10 ppb dw at the two sites near Seattle (Mearns, 2001).

Most of the silver tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) collected between 1986-2004 ranged from 0.02 to 0.21 ug/g dw (Figure 51A, Table 22). A probable outlier was measured in 2000 at 3.48 ppm dw. This value should be discarded, resulting in a new mean of 0.06 ppm dw. Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 51A). The Waterman Point data for silver were generally at the low end with respect to measurements at other Puget Sound sites (Figure 51A). In 2000 however, only one Puget Sound site was higher in silver than Waterman Pt.

We could not compare silver mussel tissue chemistry data from the 1994 RIFS and 2005 caged mussel studies at similar stations because silver was not measured as part of the RIFS. This suggests that silver was not considered a chemical of significant concern in 1994 and we do not consider it a chemical of significant concern because all caged mussels lost silver during the deployment period. We could however, still compare current results with the mean Waterman Point indigenous mussel data from NOAA and the 2005 indigenous mussel data (Figure 51B). We made these comparisons as part of the weight of evidence to test the ability of caged mussels to predict the concentrations of indigenous mussels and vice versa. The 2005 silver concentrations for indigenous mussels from Waterman Point were about a factor of two less (0.07 ug/g dw) than the mean value from the NOAA Mussel Watch data at Waterman Point (0.11) ug/g dw), and also within a factor of two of the mean of the 2005 caged

bivalves stations (Figure 51B).

### *5.4.10 tPAHs*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, there was no indication of risk from tPAH exposure at any caged mussel or indigenous station. 1) All the caged mussels accumulated tPAH during the deployment period by a factor of approximately four above concentrations measured in animals from the mussel farm at the beginning of the test (Figure 31). 2) The mean caged mussel concentration measured at the end of the 2005 study was about a factor of four less than the national mean for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean tPAH concentration measured in caged mussels at the end of the study was about a factor of seven lower than the predicted critical body residue for tPAH (Widdows and Donkin 1992). Although, WDOE does not have sediment quality guidelines for tPAH, they do have guidelines for high- and low-molecular weight PAHs normalized to organic carbon (Washington Department of Ecology 1995). The corresponding Threshold Effects Level (TEL) and Probable Effects Level (PEL) for tPAH are 1684 ppb dw and 16,770 ppb dw (NOAA 2008). The highest sediment concentrations (4235 ppb dw at SCIA) are about a factor of 2.5 above the TEL and a factor of 4 below the PEL.

In general, PAHs were not considered a significant risk but critical body residues may have been too high based on existing data and recent studies have suggested that unmeasured components (unresolved complex mixture) may have caused significant toxicity that we did not account for. tPAH mussel tissue chemistry for the 2005 study could not be compared to the 1994 RIFS caged mussel study because tPAH were not measured in 1994. Nevertheless, the 2005 caged mussel results could be compared with results from indigenous mussels at Waterman Pt. between 1986 and 2004 (NOAA Mussel Watch, Figure 52) and the indigenous mussels collected in 2005 as part of the caged mussel study (Figure 53C). In 1998, tPAH measurements in Puget Sound mussels ranged from 174 to 3295 ppb dw. By contrast, the caged mussel max was only 324 ppb. Indigenous mussel measurements were 127, 151, and 412 ppb at Waterman Point, Naval Station, and Port Orchard Marina respectively. However, exposure conditions, sizes, and methods differed.

Most of the tPAH tissue chemistry data, as presented by project ENVVEST, for Waterman Point (SIWP = NOAA ID) between 1989-2004 (no data for 1986-1988) range between 225 and 1553 ppb dw (Figure 53A,B, Table 22). A probable outlier was measured in 2005 at 2000 ppb dw. Eliminating the outliers from the overall mean results in a mean of 452 ng/g dw (Table 22). Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 53A,B). The Waterman Point data for PAHs were generally at the low end with respect to tPAH measurements at other Puget Sound sites (Figure 53A,B). In 2004 however, only one Puget Sound site was higher in tPAHs than Waterman Pt.

Although tPAHs were not measured in the 1994 RIFS, the results for the 2005 study can be compared with the mean Waterman Point indigenous mussel data from NOAA and the 2005 indigenous mussel data (Figure 53C). These comparisons were made as part of the weight of evidence to test the ability of caged mussels to predict the concentrations of indigenous mussels and vice versa. The 2005 tPAH concentrations for indigenous mussels from Waterman Point were about a factor of two less (226 ng/g dw) than the mean value from the NOAA Mussel Watch data at Waterman Point (452 ng/g dw), and also within a factor of two of the mean of the 2005 caged bivalve stations (Figure 53C).

Fig 53D compares the BOT and EOT tPAH concentrations measured as part of the current 2005 caged mussel study with the Mussel Watch tPAH concentrations measured in various portions of Puget Sound.

The highest concentration measured after deployment during the current 2005 caged mussel study (i.e., SCIA at 569 ppb dw), was about a factor of five lower than the closest Mussel Watch station (i.e., Waterman Point in Sinclair Inlet at 2397 ppb dw). Not only were these data collected at about the same time, but the tPAH concentrations include the same PAH compounds. Some of the comparisons with Mussel Watch data are difficult because the PAH compounds used in calculating a total value has steadily increased from about 19 compounds in 1986 to about 48 compounds in 2000. The mean concentration of tPAH at the beginning of the 2005 mussel study was 47.5 ppb dw. After 60 days of exposure at the Sinclair Inlet sites, the mean tPAH concentration was 284 ppb dw, and increase of almost 6X. The mean concentration of the 2005 coastal sites for Mussel Watch was slightly higher at 325 ppb dw. The mean for three of the four Northwest Straits sites was 454 ppb dw, again slightly elevated when compared to the caged mussel study and coastal values. The fourth Northwest Strait site was considerably higher at 2586 ppb, which increased the overall mean tPAH concentration for the region to 987 ppb dw. By contrast, all the Puget Sound Basin sites exceeded 1000 ppb dw tPAH. Even so, only four of the six sites were in the range of 2,250 ppb dw tPAH, where effects on mussels would be expected based on the Scope for Growth effects endpoint (Widdows and Donkin 1992). The overall mean for the Puget Sound Basin was calculated to be 2875 ppb tPAH dw, which is not only above the predicted effects concentration, but also about two times higher than the Mussel Watch national mean of 1498 ppb dw.

### *5.4.11 tPCBs*

Based on weight of evidence and multiple lines of evidence in the relative percent increase graphs, there was no indication of risk from tPCB exposure at any caged mussel or indigenous station. 1) All the caged mussels accumulated tPCB during the deployment period by a factor of approximately seven above concentrations measured in animals from the mussel farm at the beginning of the test (Figure 34). 2) The mean caged mussel concentration measured during the 2005 study was about half the national mean for indigenous mussels measured by the NOAA Mussel Watch. 3) The mean tPCB concentration measured in caged mussel tissues (117 ng/g dw) was also about half the predicted critical body residue for tPCB (200 ng/g dw; Krishnkumar et al 1994). The highest TOC-normalized sediment concentrations (3.72 mg/kg organic carbon) were found at SCIA; these are about a factor of 3 below the WDOE sediment quality standard (12 mg/kg organic carbon; See Sediment Section). The TOC normalized sediment concentrations use for comparison to the sediment quality standard and shown in figure 58B were calculated using the study average of 2.95% TOC (Brandenberger et al 2006).

In general, PCBs were not considered a significant risk, but critical body residues may have been too high based on existing data and more sensitive endpoints than scope for growth or other mussel growth metrics. We could not compare tPCB mussel tissue chemistry between the 2005 study and the 1994 RIFS caged mussel study because tPCBs were not measured in 1994. In 1994 PCBs were quantified using 1254, and there is not an easy or reliable method for converting Aroclor data to tPCB data. However, the ranges of Aroclors measured were between 0 (below detection limit) to 21 ng/g dw (Table 21). This represents a 10x to 15x increase in tissue burdens as Aroclors compared to the beginning of test concentrations. These increases are very similar to both the current study and Harbor Island study (Table 21). We could also compare the 2005 caged mussel results with those from indigenous mussels at Waterman Pt. between 1986 and 2004 (Mearns 2001, Figure 54) and the indigenous mussels collected in 2005 as part of the caged mussel study (Figure 55C). In 1998, tPCB measurements in Puget Sound mussels ranged from 24 to 533 ppb dw (Mearns 2001). By contrast, the caged mussel max was only about 250 ppb. Indigenous mussel measurements were 76, 161, and 117 ppb dw at Waterman Point, Naval Station, and Port Orchard Marina respectively. However, exposure conditions, sizes, and methods

differed.

Most of the tPCB tissue chemistry data, as presented by Project ENVVEST, for Waterman Point (SIWP = NOAA ID) between 1988-2004 (no data for 1986-1987) range between 91 and 193 ppb dw (Figure 55A,B, Table 22), with an overall mean of 175 ng/g dw . Additional insight is gained by comparing the SIWP data with other Puget Sound sites (Figure 55A,B). The Waterman Point data for tPCBs were generally at the high end with respect to tPCB measurements at other Puget Sound sites (Figure 55A,B, Table 22).

Although tPCBs were not measured in the 1994 RIFS, the results for the 2005 study can be compared with the mean Waterman Point indigenous mussel data from NOAA and the 2005 indigenous mussel data (Mearns 2001, Figure 55C). We made these comparisons as part of the weight of evidence to test the ability of caged mussels to predict the concentrations of indigenous mussels and vice versa. The 2005 tPCB concentrations for indigenous mussels from Waterman Point were about a factor of two less (76 ng/g dw) than the mean value from the NOAA Mussel Watch data at Waterman Point (176 ng/g dw), and also within a factor of two of the mean of the 2005 caged bivalve stations (Figure 55C).

## 5.5 Are the chemicals associated with adverse effects related to PSNS & IMF activities?

Based on our interpretation of tissue reside benchmarks some accumulated chemicals reached concentrations that might be associated with adverse effects. However, the predicted effects are site-specific (different at SNAV and SCIA) and chemical specific (effects with some chemicals not others). As with the exposure questions, tissue chemistry provided at least part of the answer to chemicals entering Sinclair Inlet and whether or not they were biologically available. These effects questions related to effects associated with Naval activities are much more complex and will need more of an integration between tissue chemistry, mussel growth rates and sediment chemistry. For that reason, a more complete answer will be provided in the sediment section where the three will be integrated.

## 5.6 Are Accumulated Chemicals Associated with Current or Past Discharges?

It is difficult to answer this questions because of numerous potential sources in the area. One line of evidence for identifying potential sources is to strategically transplant mussels along suspected chemical gradients. A second line of evidence is necessary to help establish links between exposure and effects over space and time. For example, sediment appeared to be a source of PAHs and PCBs due to the high positive correlation between chemicals in caged mussel tissues and chemicals in bottom sediment. For these chemicals, the highest concentrations were generally measured in caged mussels closest to the bottom (1 m above bottom sediment). To more clearly identify and confirm particular sites as sources, it would be necessary to replicate cages along suspected chemical gradients across Sinclair Inlet or down Sinclair Inlet.

While the Mussel Watch data were collected over a longer period of time to establish status and trends of bioavailable chemicals of concern, Waterman Pt. (i.e., the NOAA collection site) is about 4 miles away from both SCIA and POM (and IPOM) and probably does not represent the same exposure regime or pathways of exposure. This is one of the disadvantages of using indigenous mussels in that they are different in a number of ways. Sediment is also a good indicator of chemical exposure because it too integrates chemicals over space and time and there has been extensive sampling in the vicinity of the PSNS/IMF complex due to regulatory concerns over high concentrations in sediment (remember that this does not necessarily indicate effects), listing of the site, and follow-up monitoring. While it is beyond the scope of this report to document all of these changes over space and time, some discussion

is necessary to explain the caged mussel results from 1994 and 2005.

The 2005 caged mussel study was not designed to differentiate differences between chemicals associated with current and past discharges because there was insufficient replication to distinguish between biologically available chemicals in sediment versus the water column. Because there was only one cage within 1 meter of the bottom to perhaps represent sediment exposures and cages approximately 1 and 2 meters above that, all three cages were intended to nominally represent sediment exposures. Results suggest that for many chemicals, particularly lead, PCBs, and PAHs, there was a statistically significant relationship between chemicals in sediment and caged mussel tissues at all three depths. However, concentrations for many chemicals were highest in mussels caged closest to bottom sediments (1 meter above).

### *5.6.1 Metals Verification Study*

Outside Sinclair Inlet, all silver, cadmium, copper, lead, and zinc concentrations were below Washington state Sediment Quality Standards (SQS) and Minimum Cleanup Levels (MCUL) (Kohn et al 2004). These sediment metals do not appear to be affecting water quality outside Sinclair Inlet (including Ostrich Bay in Dyes Inlet). Within Sinclair Inlet, concentrations of Ag and Cd were below SQS in all sediment samples. Thus current measurements do not support 303(d) listing based on the concentration of these metals in sediment. Current copper, lead, and zinc measurements also show that current concentrations of metals in sediment are substantially lower than before cleanup and capping. The following were the only two exceptions:

1) Measured or predicted copper concentrations in sediment exceeded the SQS and MCUL in only 2 of the 103 samples.

2) Measured or predicted zinc concentrations in sediment exceeded the SQS in 6 of the 103 samples and the MCUL in just 1.

The Metals Verification Study data (Kohn et al 2004) indicate that sediment quality in Sinclair Inlet has improved dramatically since implementation of clean-up and source control activities. These 2003 data do not support 303(d) listing for most if not all the metals measured in this study. The Metals Verification Study also supports Sinclair-Dyes Inlet watershed and water quality models by providing temporally and spatially distributed sediment metals data collected throughout the Sinclair-Dyes Inlet water quality modeling domain.

This is important because of the need to characterize exposure and effects and establish links between chemicals in water, sediment, and biota. We did not find any significant relationships between chemicals in water and mussel tissues. This is not surprising because the frequency of water sampling was not sufficient to adequately characterize chemical exposure via waterborne pathways. Even if the sampling had been more frequent, there is often not a significant relationship between chemicals in water and biota since what is measured is not biologically available, even if separated between the dissolved and total compartments. It is somewhat surprising that we found significant relationships between chemicals in sediment and chemicals in tissues for PAH, PCBs, copper, and lead. PSAMP monitoring has shown relationships between PAHs and PCBs in fish tissues and sediment but no such relationships have been reported here for metals and bivalve tissues. Plotting mussel tissue concentrations versus sediment concentrations for the four chemicals of concern demonstrates some substantial differences among stations. Although the study was not designed to detect statistically

significant differences in mussel tissue chemistry among depths there was a trend suggesting that the highest concentrations were generally measured in mussels closest to the bottom. This led to other inferences regarding pathways of exposure and the relationships between chemicals in various environmental compartments. In almost every comparison, differences between SCIA and NAV appeared to be substantial even though no statistically significant differences were detected using the multiple range test. The series of graphs for PAH, PCBs, copper, and lead are all plotted as tissue concentration versus sediment concentration and circles are used to identify possible groups, without the benefit of statistical analysis.

### *5.6.2 The Current Sediment Connection*

Circulation patterns within Sinclair Inlet suggest that there is a net transport of sediment and water out of the inlet rather than into the inlet. The only caveat here, however, is that we have already identified that many of these chemical relationships between water, sediment, and tissues are very site-specific, and there were no caged mussel stations in the "arms" between Dyes Inlet and Port Orchard Passage to quantify the relative importance of other potential pathways of exposure to Sinclair Inlet. Therefore, the circulation patterns and sediment transport models were relied on to reject the hypothesis that chemicals were entering Sinclair Inlet from other basins. The first clue for differences between sediment concentrations of PCBs and PAHs at SNAV is shown in Figure 56 which shows the large difference between PCBs at SCIA and NAV. PCB concentrations in sediments at SCIA were 2442 ng/g dw, roughly two times higher than those at SNAV of 4235 ng/g dw. On the other hand, PAHs in sediment at SCIA were somewhat lower (39310 ng/g dw) than those at NAV (42350 ng/g dw). We attribute these differences to dredging at SNAV that significantly reduced the PCB burden there. The smaller differences in PAHs suggest a more universal contamination in the entire area with specific point sources along the shore.

Caged mussels were deployed within 1 meter of the bottom to assess the bioavailability of chemicals in sediments and we found statistically significant relationships between PAHs and PCBs in sediments and mussel tissues $R^2$ values were 0.80 and 0.92, respectively (Figures 57A,58A). We also found a statistically significant relationship between lead in sediment and lead in mussel tissues that was almost as good (Figure 59). The $R^2$ value of 0.89. These data demonstrate a significant pathway of exposure between PAH, PCB, and lead in sediments and caged mussel tissues. Although not statistically significant we found relationships with other metals in sediment and mussel tissues that were also approaching statistical significance. This series of graphs is intended to show the statistically significant relationships in addition to general patterns found while investigating these relationships. The most interesting is the visualization of the dramatic differences between SNAV and SCIA in each graph series. Since both stations are a part of the PSNS/IMF complex, one might expect exposure and effects to be more similar than we found. The observed differences were quite surprising. It was also interesting to find that sediment concentrations of silver, cadmium, and chromium at SIRP were higher than any other station (including SCIA). Sediment concentrations of mercury at SIRP (0.939 ng/g dw) were very close to concentrations measured at SCIA (0.949 ng/g dw). These could be related to the Bremerton Treatment Plant Outfall (BTPO, Figure 74). Sediment and tissue concentrations of silver, cadmium, and chromium were also unexpectedly high at POM and may also be related to the Port Orchard Treatment Plant Outfall (POTPO, Figure 74). Sediments from all of the stations had mercury concentrations that were above the sediment quality standard of 0.41 ug/g dw.

Mussels at SCIA had the highest concentration of all contaminants measured, except mercury. Caged mussels deployed in POM and SIRP had the highest concentrations of mercury, suggesting one or more

mercury sources on the southern shore of Sinclair Inlet or high mercury bioavailability. While the most direct interpretation of these results suggest non-naval sources of mercury in Sinclair Inlet, another possible explanation has been presented. It has been suggested that the area around the PSNS/IMF complex has been dredged, eliminating a source of mercury within the NAV/SCIA complex. This explanation does not seem to substantiate the current findings, particularly since recent sediment sampling within the PSNS/IMF complex has shown that sediment mercury concentrations at SCIA are very similar to those at SIRP. The higher tissue burdens of mercury at SIRP could be associated with both a sediment and water column pathway. Furthermore, pre-dredging and post-dredging data do not show high concentrations of mercury across Sinclair Inlet in the vicinity of the POM and SIRP. This might suggest a waterborne exposure pathway rather than a sediment pathway, or a combination of each. We can verify that the concentrations of mercury have decreased within the NAV/SCIA complex. However, the pre-dredging data do not suggest that significant amounts of mercury were transported across Sinclair Inlet. Although a sediment transport model suggests that some chemicals on fine particles (mud) could be transported across the inlet, it seems unlikely that it actually occurred. Lead concentrations, for example, were mapped in sediments within Sinclair Inlet and they seem largely confined to the vicinity of the PSNS/IMF complex, prior to dredging and remediation at the site (PSAMP 2000). Because mercury has a strong partitioning coefficient for sediment like lead, the weight of evidence and multiple lines of evidence suggest that both lead and mercury coming from the PSNS/IMF complex are largely confined to that area and are not transported beyond the mid-channel line within Sinclair Inlet. We believe that most of the other chemicals are confined as well.

#### *5.6.2.1 tPAHs*

Three interesting relationships between sediment and tissue concentrations of tPAHs were found at stations measured in the 2005 caged mussel study. The first is at SCIA and SNAV (Figure 57B) where, even though the sediment concentrations are relatively close, the tissue concentrations are quite different, with concentrations higher at SCIA. This is yet another indication that SCIA and SNAV are very different even though separated by only 1100 meters. The second is between POM and SIRP where both sediment concentrations and tissue concentrations were fairly similar. This is understandable because these two stations are relatively close together. The third interesting relationship occurs for POP and OBDI. Even though the sediment concentrations are very different (factor of 3X), the tissue burdens are virtually identical.

The data suggest that above a sediment concentration of about 1500 ng/g dw the tissue burdens also increase significantly. Below sediment concentrations of 1500 ng/g dw, tissue burdens were less than 50 ng/g dw and above this sediment concentration, tissue burdens increase to 150 ng/g dw and higher. Most important of all however is that we found a statistically significant relationship between PAHs in sediment and PAHs in caged mussel tissues. Several other studies have demonstrated a similar relationship. Finally although WDOE does not have sediment quality standards for tPAH, NOAA Screening Quick Reference Tables (SQRT; NOAA 2008) show that POM, SIRP, SCIA and SNAV are all above the TEL of 1684 ppb dw but below the PEL of 16,770 ppb dw. The regression coefficient 0.80 shows a good relationship between tPAHs in sediment and tPAHs in mussel tissues.

Although English sole may naturally develop liver lesions as they age, researchers with the National Marine Fisheries Service and Washington Department of Fish and Wildlife have shown that exposure to contaminated sediments, particularly high molecular weight PAHs, is the main risk factor associated with increased lesion prevalence in English sole (PSAMP 2000).

*5.6.2.2 tPCBs*

Sediment and tissue concentrations of tPCBs are quite different for SCIA and SNAV (Figure 58B), which may be yet another indication that SCIA and SNAV are very different even though separated by only 1100 meters. The TOC normalized sediment concentrations provided in figure 58B were calculated using the study average of 2.95% TOC (Brandenberger et al 2006). While SCIA and SNAV are very different, sediment and tissue concentrations of tPCBs at SNAV and SIRP are very close. This is also understandable since these stations are also relatively close together. A similar pattern exists for POP and OBDI. Sediment and tissue burdens at POM are in between these two groupings, suggesting the POM is different from other stations. POM is on the shore opposite SCIA and SNAV which may account for the observed results.

Most important of all however is that we found a statistically significant relationship between PCBs in sediment and PCBs in caged mussel tissues. Several other studies have demonstrated a similar relationship. All of the caged mussel stations were below the WDOE sediment quality standard of 12 ng/kg oc dw (Figure 58B). The regression coefficient 0.92 shows a good relationship between tPCBs in sediment and tPCBs in mussel tissues. Exposure to PCB-contaminated sediments was believed to be the main factor associated with PCB accumulation in English sole (PSAMP 2000). Results from the 2005 caged mussel studies suggest the same pathway of exposure. Results from other studies provide additional evidence for this pathway (Young et al 1988).

*5.6.2.3 Lead*

Mussel tissue concentrations at SCIA were significantly different from all other stations and the sediment concentrations mirror that difference in concentrations that are approximately 2x higher than any other station. Again, not only are the lead patterns for sediment and tissue interesting, they emphasize the large differences between SCIA and NAV. Figures 59A,B show that both sediment concentrations and tissue concentrations are very different. Alternatively, sediment and tissue concentrations of copper at SNAV, SIRP, POM, and OBDI are very close. A somewhat different pattern exists for POP which appears to be in a group by itself. All of the caged mussel stations were below the sediment quality standard of 450 ppm dw. The regression coefficient 0.89 shows a good relationship between lead in sediment and lead in mussel tissues. Results of PSAMP (2000) monitoring suggest that English sole from the Sinclair Inlet area are exposed to significantly higher lead levels than are sole from any other area of Puget Sound, and that lead in sediment as a source (Figures 70, 71). This is important because it shows similar pathways of exposure for mussels and fish.

*5.6.2.4 Zinc*

Mussel tissue zinc concentrations at most stations were relatively close (0.2x) even though the sediment concentrations varied by a factor of 7x. Again, not only are the zinc patterns for sediment and tissue interesting, they emphasize the large differences between SCIA and NAV. Figures 60A,B show that both sediment concentrations and tissue concentrations are very different. All of the caged mussel stations were below the sediment quality standard of 410 ppm dw. The regression coefficient 0.54 shows a reasonable relationship between lead in sediment and lead in mussel tissues. However, if only the data from the bottom cages is used, the regression coefficient increases to 0.90. This suggests that the sediment exposure pathway may be significant for zinc as well.

*5.6.2.5 Silver*

Mussel tissue silver concentrations at most stations were relatively close (0.5x) even though the sediment concentrations varied by a factor of about 7x. As with zinc, the concentrations of silver in sediment and tissue emphasize the large differences between SCIA and NAV. Figures 61A,B show that both sediment concentrations and tissue concentrations are very different. All of the caged mussel stations were well below the sediment quality standard of 6.1 ppm dw. The regression coefficient 0.44 suggests a poor relationship between silver in sediment and silver in mussel tissues. However, if only the data from the SNAV, SCIA, and SIRP are used, the regression is a virtual straight line going in the opposite direction. This suggests that the sediment exposure pathway may be somewhat significant for silver as well. The fact that the highest concentrations of silver were found at SIRP is consistent with silver being suggested as a tracer in mussel tissues (Martin et al 1988).

*5.6.2.6 Copper*

Not only are the copper patterns for sediment and tissue interesting, they emphasize the large differences between SCIA and NAV. Figures 62A,B show that both sediment concentrations and tissue concentrations are very different. Alternatively, sediment and tissue concentrations of copper at SNAV, SIRP, and POM are very close. This is also understandable since these stations are also relatively close together. A somewhat different pattern exists for POP and OBDI. Sediment copper concentrations are higher at OBDI but the tissue concentrations are higher at POP. The data suggest that above a sediment concentration of about 115 ug/g dw the tissue burdens also increase significantly. Most interesting of all perhaps is that the two highest concentrations of copper in caged mussel tissues were measured at the highest and lowest sediment concentrations of copper (Figure 62A), stressing the importance of bioavailability. Sediment concentrations of copper were all below the WDOE SQS of 390 ug/g dw.

*5.6.2.7 Mercury*

The sediment mercury concentrations at both SNAV and SCIA are about half those at POM and SIRP and yet the mercury tissue concentrations at SIRP and POM are about double those at SNAV and SCIA (Figures 63A,B). This strongly suggests different pathways of exposure and different sources. Furthermore, the regression coefficient for all sediment and tissue chemistry data for mercury is only 0.30 which suggests a waterborne source (or perhaps a combination of water and sediment pathways). It seems likely that the BTPO or the POTPO may contribute mercury at SIRP and POM, respectively. Sediment concentrations of mercury were all above the WDOE SQS of 0.41 ppm dw.

Mercury accumulation was detected in all fish species sampled by the PSAMP (2000), but the highest concentrations were measured in quillback and brown rockfish, two long-lived species. Rockfish from Sinclair Inlet contained especially high levels of mercury, but not as high as in fish from the Strait of Georgia (Johnston et al 2007). Analysis of data from annual sampling at fixed sites showed no temporal trends in contaminant accumulation. Despite attempts to control sources of variation that can mask trends, data were too variable for most species to demonstrate temporal trends in contaminant accumulation.

*5.6.2.8 Arsenic*

The sediment arsenic concentrations are highly variable with a regression coefficient of only 0.011 and no apparent relationship between arsenic in sediment and caged mussel tissues. Arsenic concentrations

in sediment are very similar at SNAV and SCIA but the tissue concentrations are quite different. The only other interesting observation that is consistent with other chemicals is that SIRP and POM appear quite similar in terms of sediment and tissue arsenic. Sediment concentrations of arsenic were about half the WDOE SQS of 57 ppm dw.

#### *5.6.2.9 Cadmium*

The sediment cadmium concentrations are even more variable than arsenic and no regression coefficient was calculated because there was no apparent relationship between cadmium in sediment and cadmium in caged mussel tissues. The highest sediment concentrations of cadmium were about one third the WDOE SQS of 5.1 ppm dw.

#### *5.6.2.10 Chromium*

The sediment chromium concentrations are also highly variable and again, we did not show the regression coefficient because there was no apparent relationship between chromium in sediment and chromium in caged mussel tissues. Some suggested relationships are suggested in Figure 66. The highest sediment concentrations of chromium were about half the WDOE SQS of 260 ppm dw.

#### *5.6.2.11 Nickel*

The sediment chromium concentrations are also highly variable and again, we did not even show the regression coefficient because there was no apparent relationship between nickel in sediment and nickel in caged mussel tissues. Some suggested relationships are suggested in Figure 67. Again we will leave the interpretation of environmental significance of this relationship to the reader. The highest sediment concentrations of chromium were about two orders of magnitude below the NOAA SQRT TEL of 15,900 ppm dw (NOAA 2008)

### *5.6.3 The Past Sediment Connection*

The past sediment connection is established by quantifying and mapping using SEDQUAL data (Washington State Department of Ecology). The maps in Figure 68 were developed by the Navy SPAWAR lab in San Diego for six chemicals that exceeded WDOE sediment standards as of 2000 (arsenic, copper, lead, mercury, tPCBs and zinc). This established a baseline and allowed comparisons with sediment sampling conducted at the caged mussel study sites. Although the specific patterns are quite different for each chemical,there are some interesting and useful trends that can be inferred by these exceedance maps. The first is that there appear to be two to four different shore-based sources for each chemical. These appear to be PSNS/IMF, the BTPO, and an unidentified source across the inlet from the PSNS/IMF complex (Figure 74). For arsenic the sources appear to be PSNS/IMF, BTPO, and the unidentified source. For copper the sources appear to be PSNS/IMF, BTPO and the unidentified source. For lead, the only identified sources appear to be PSNS/IMF and BTPO. This is also surprising because only PSNS/IMF and BTPO are identified as sources and the contamination appears quite localized. The caged mussel tissue chemistry data however suggests that the contamination is more widespread. This could indicate other shore-based water pathways of exposure for lead. Mercury is the most widespread sediment contaminant and suggests several sources on both sides of Sinclair Inlet as well as several sources in Dyes Inlet. Sediment contaminated with PCBs suggests that the only two sources are the PSNS/IMF and the BTPO. This is also interesting because the highest concentrations of PCBs in caged mussel tissues were measured at SCIA. Finally, zinc is the only chemical that appears to be associated

with four distinct sources; PSNS/IMF, BTPO and the unidentified source on the opposite side of the inlet.

While it is beyond the scope of this report to consider every chemical of concern, it might be most appropriate to consider mercury in contaminated sediments because it is so widespread and potentially very toxic. Mercury, PAH, and PCB are the only chemicals currently still above the sediment quality standards based on sediment sampling conducted at the caged mussel study sites. More detailed data on USEPA Record of Decision (ROD) (US Navy 2000) is provided in Figure 69 which also shows the relative position of the caged mussel studies conducted in 1994 and 2005. This map shows that the highest concentrations of mercury are largely restricted to the PSNS/IMF boundary. This is particularly true for sampling stations to the east and the south of that boundary. To the west however, many of the higher concentrations are found outside of the boundary. If either PSNS/IMF or CIA were sources for mercury, a gradient of decreasing concentrations with distance would be expected from those potential sources. It seems more likely that the BTPO is a more likely source of these high sediment mercury concentrations.

Some scientists have suggested that the reason for higher mercury concentrations at POM and SIRP are associated with previous deposits of high mercury-contaminated sediments from the PSNS/IMF complex. Neither the caged mussel tissue chemistry data nor the sediment chemistry data (both pre- and post-dredging) support that hypothesis. The sediment concentrations at SNAV and SCIA were similar to those at POM and SIRP but the mercury tissue concentrations at POM and SIRP were double those at SNAV and SCIA (Figure 63). Furthermore, the regression coefficient for all sediment and tissue chemistry data for mercury is only 0.30 which suggests bioavailability is an issue, or there is a waterborne source. As previously suggested, outfalls may be the likely sources of mercury at SIRP and POM. In contrast, the sediment and tissue concentrations of silver were unexpectedly low, since silver is known to be tracer of sewage effluents (Martin et al 1988).

### *5.6.4 Linking Current and Past Sediment Connections*

Because mercury and lead have similar partitioning characteristics, additional inferences can be gained by comparing the distribution of lead in current sediments, past sediments, and caged mussel tissues. The Richter graphs show that there were lead exceedances only at CIA and BTP (close to SIRP). As of 2000, and before dredging at PSNS & IMF, there is no indication that lead from the PSNS & IMF complex was traversing Sinclair Inlet and contaminating SIRP and POM. This is further substantiated by a combination of SEDQUAL data and English sole monitoring conducted by PSAMP (PSAMP 2000). Figure 70 shows average lead concentrations as of 1998 (pre-dredging) and demonstrates that the highest concentrations are restricted to the vicinity of the PSNS & IMF boundary (approximately mid-inlet) and the vicinity of BTP (approximately mid-inlet). While the sharp distinction shown in the map is largely a function of the software used to produce this map, it shows that all of the sediment lead concentrations are below the sediment quality standard of 450 ppm and that the concentrations are much higher in the northern part of Sinclair Inlet.

Another important point to be made here is the difference between “high” concentrations and concentrations that are toxicologically significant. While the PSAMP report (PSAMP 2000) suggests that concentrations of lead in sediment and English sole are elevated throughout Sinclair Inlet, Figure 70 shows that the highest concentrations of lead in sediment are restricted to the northern portion. The concentrations of lead in sediment are comparable to those measured in 1998-2000. Again, all these measured concentrations are below the sediment quality standard of 450 ppm. The PSAMP report (PSAMP 2000) further plots lead concentrations in English sole livers from six Puget Sound locations and

shows (Figure 71) that all of the measurements from Sinclair Inlet are significantly higher than those measured at other locations. There are two important points to remember here. First, English sole were only measured in the vicinity of PSNS & IMF and not CIA or BTPO. Second, while the lead concentrations are significantly higher in English sole livers within Sinclair Inlet, it is only from those locations sampled at the north side of the inlet in close proximity to PSNS/IMF and there is no toxicological link provided to suggest that these concentrations are associated with adverse effects. Similarly, while the EOT lead concentrations measured in caged mussel tissues were extremely elevated compared to BOT concentrations, they were well below critical body residues associated with adverse effects in mussels.

### *5.6.5 Integrating Tissue Chemistry, Sediment Chemistry, and Mussel Growth*

In order of increasing magnitude, the ranks for chemical concentrations in sediment range from a low of 11 at POP to a high of 59 at SCIA (Table 25 ). Results of statistical analyses on these rankings indicate that OBDI is significantly different than SNAV, SIRP, and SCIA, and OBDI is significantly different than SCIA. This ranking shows that cadmium is the only chemical that does not follow the uptake trend seen at other stations. Mussels deployed at SCIA had the highest concentration of nearly all chemicals, followed closely by SIRP.

By comparing the ranking order for each of the parameters assessed, it is possible to determine whether mussel growth (performance) is following trends associated with chemicals in tissues or sediments. This is part of the ecological risk assessment process of characterizing exposure and effects, as well as the exposure-dose-response triad. The rank orders are summarized in Table 26, with the order for growth reversed (i.e., from highest to lowest) to allow effects comparisons. For each parameter, SCIA had the highest rank (i.e., highest sediment and tissue chemistry; lowest growth metrics). Growth metrics appear to follow tissue chemistry more than sediment chemistry, as seen by the overlap at three stations: OBDI, POM, and SCIA. There were only two overlaps between growth and sediment: SIRP and SCIA. Food availability, temperature, and other environmental factors can also affect growth.

Table 25. Ranking table based on sediment chemistry
(1 = lowest concentration; 6 = highest concentration).
Statistically similar stations are grouped by an underline.

| | POP | OBDI | POM | SNAV | SIRP | SCIA |
|---|---|---|---|---|---|---|
| Ag | 1 | 2 | 4 | 3 | 6 | 5 |
| As | 1 | 3 | 4 | 2 | 5 | 6 |
| Cd | 1 | 4 | 2 | 5 | 6 | 3 |
| Cr | 1 | 5 | 3 | 2 | 6 | 4 |
| Cu | 1 | 2 | 3 | 5 | 4 | 6 |
| Ni | 1 | 3 | 4 | 2 | 5 | 6 |
| Pb | 1 | 2 | 4 | 3 | 5 | 6 |
| Zn | 1 | 2 | 3 | 5 | 4 | 6 |
| Hg | 1 | 2 | 3 | 4 | 5 | 6 |
| PAH | 1 | 2 | 3 | 6 | 4 | 5 |
| PCB | 1 | 2 | 5 | 4 | 5 | 6 |
| ***Sum Ranks*** | ***11*** | ***29*** | ***38*** | ***41*** | ***55*** | ***59*** |

Table 26. Summary of ranking results for sediment chemistry, tissue chemistry, and growth metrics. Also shown is an Total Rank, calculated as the sum of the individual ranking parameters.

| | | | | | | |
|---|---|---|---|---|---|---|
| Sediment: | POP | OBDI | POM | SNAV | SIRP | SCIA |
| | 11 | 29 | 38 | 41 | 55 | 59 |
| Tissues: | OBDI | SIRP | POP | POM | SNAV | SCIA |
| | 17 | 29 | 32 | 37 | 41 | 54 |
| Growth: | OBDI | POP | SNAV | POM | SIRP | SCIA |
| | 9 | 14 | 15 | 24 | 28 | 36 |
| | ***OBDI*** | ***POP*** | ***SNAV*** | ***POM*** | ***SIRP*** | ***SCIA*** |
| ***Total Rank*** | ***55*** | ***57*** | ***97*** | ***99*** | ***112*** | ***149*** |

The sum of ranks for each parameter are also provided in Table 26, with a total rank determined by adding the sediment rank + tissue rank + growth rank. This exercise shows how similar OBDI and POP are when these three parameters are considered, and that these two locations were probably wise choices for reference stations. It also shows overall how similar SNAV and POM are, even though these two stations are on opposites sides of the inlet. SIRP basically stands alone, intermediate between SNAV/POM and SCIA.

The risk assessment analysis framework provided by R.K. Johnston (personal communication) was applied to the data collected from the 2005 study to help determine which chemicals were of greatest risk at the stations monitored. Table 27 is a summary of the specific questions posed, the interpretation questions and guidelines, and results for each chemical and station evaluated.

Table 27. Risk assessment framework and results for the 2005 Puget Sound Naval Shipyard caged mussel study.

*Q1. Is there evidence of exposure to the COC?*
YES - tissue concentrations are significantly higher than BOT
NO - no difference or lower than BOT

| | POP | OBDI | POM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|---|
| Cu | YES | YES | YES | YES | YES | YES |
| Hg | YES | YES | YES | YES | YES | YES |
| Zn | YES | YES | YES | YES | YES | YES |
| As | YES | YES | YES | YES | YES | YES |
| Cd | YES | YES | no | no | YES | YES |
| Ni | no | no | no | no | YES | no |
| Pb | YES | YES | YES | YES | YES | YES |
| Cr | no | no | no | no | no | no |
| Ag | no | no | no | no | no | no |
| tPAH | no | no | YES | YES | YES | YES |
| tPCBs | no | no | YES | YES | YES | YES |

*Q2. If higher than BOT, is there evidence of elevated exposure to the COC (e.g. potential source)?*
YES - tissue concentrations are higher than BOT and the station has significantly higher concentration of COC than other sites (belongs to statistically significant higher grouping)

NO - no difference between sites or statistically significant lower grouping

| | POP | OBDI | POM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|---|
| **Cu** | no | no | no | no | yes | no |
| **Hg** | no | no | YES | YES | no | no |
| **Zn** | no | no | no | no | no | no |
| **As** | no | no | no | no | no | no |
| **Cd** | no | no | no | no | no | no |
| **Ni** | no | no | no | no | YES | no |
| **Pb** | no | no | no | no | YES | no |
| **Cr** | no | no | no | no | YES | no |
| **Ag** | no | no | no | no | no | no |
| **tPAH** | no | no | YES | YES | YES | YES |
| **tPCBs** | no | no | YES | YES | YES | YES |

*Q3. Is there evidence of a negative biological response (to survival or growth)?*

STONG - there is strong evidence of negative biological response because the station has a statistically significant indication of a biological impact (impaired growth or survival)

WEAK - some evidence of reduced biological function, but overall biological condition promotes growth and survival

NONE - no evidence of negative biological response; no difference between sites or statistically significant grouping with higher growth response

| POP | OBDI | POM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|
| no | no | weak+ | weak+ | med strong | no |

*Q4. Is there evidence of a potential ecological effect?*

NEGLIGIBLE - the tissue residue is less than conservative "no effect" threshold

LOW - the tissue residue is greater than or equal to most conservative "no effect" threshold but less than the less conservative "no effect" threshold

MEDIUM - tissue residue exceeds “no effect” thresholds but less than “low effect” thresholds

HIGH - the tissue residue is greater than or equal to "low effect" benchmark/threshold

| | POP | OBDI | POM | SIRP | SCIA | SNAV |
|---|---|---|---|---|---|---|
| **Cu** | neg | neg | neg | neg | neg | neg |
| **Hg** | neg | neg | neg | neg | neg | neg |
| **Zn** | neg | neg | neg | neg | neg | neg |
| **As** | HIGH | low | HIGH | med | HIGH | HIGH |
| **Cd** | low | low | low | low | low | low |
| **Ni** | neg | neg | neg | neg | neg | neg |
| **Pb** | neg | neg | neg | neg | neg | neg |
| **Cr** | neg | neg | neg | neg | neg | neg |
| **Ag** | neg | neg | neg | neg | neg | neg |
| **tPAH** | neg | neg | neg | neg | neg | neg |
| **tPCBs** | neg | neg | neg | neg | HIGH | neg |

Based on the above analysis, the results can be sorted by station to determine the estimated risk associated with the COCs. The primary chemicals of concern for all stations are arsenic and cadmium, with mercury, tPAH, and tPCB posing some potential concern at one station:

POM: Hg, tPAH, tPCB: no indication of risk, but elevated exposure may be site related
As: strong indication of risk, but may not be site related
Cu, Zn, Cd, Ni, Pb, Cr, Ag: no indication of risk (response may be from some other factor)

SIRP As: Potential indication of risk, but not site related
Cu, Hg, Zn, Cd, Ni, Pb, Cr, Ag, tPAH, tPCB: no indication of risk (response may be from some other factor)

POP As: indication of risk, but may not be site related
Cd: potential indication of risk, but may not be site related
Cu, Hg, Zn, Ni, Pb, Cr, Ag, tPAH, tPCB: no indication of risk

OBDI As: potential indication of risk, but may not be site related
Cd: potential indication of risk, but may not be site related
Cu, Hg, Zn, Ni, Pb, Cr, Ag, tPAH, tPCB: no indication of risk

SCIA tPCBs: Strong indication of Risk from COC at site
As: strong indication of risk, but may not be site related
Cd: potential indication of risk, but may not be site related
Cu, Hg, Zn, Ni, Pb, Cr, Ag, tPAH: no indication of risk (response may be from some other factor)

SNAV As: indication of risk, but may not be site related
Cd: potential indication of risk, but may not be site related
Cu, Hg, Zn, Ni, Pb, Cr, Ag, tPAH, tPCB: no indication of risk

## 6.0 SUMMARY & CONCLUSIONS

Based on an ecotoxicological interpretation of the data, the risk assessment framework, and CBRs the following conclusions can be made from this study:

· There was no indication of risk from silver, chromium, copper, nickel, zinc, and PAH exposure in Sinclair Inlet. However, PAH critical body residues may be too low based on recent studies and a growing body of evidence suggesting that the UCM, which is not routinely quantified in monitoring studies such as the 2005 caged mussel study, may represent a significant source of toxicity. Instead of the CBR for scope for growth we used to normalize effects on mussels of 2,250, the CBR could be as low as 500 to 750 ng/g dw. Measured concentrations of PAH are within this range only at SCIA but the other stations within Sinclair Inlet are approaching these lower CBR concentrations. We are most confident in the copper CBRs because there is so much information available for copper toxicity to marine mussels.

· There was no indication of risk from lead exposure and any exposure to lead is probably not affecting mussel growth. There may be a source of lead in the vicinity of SCIA, but tissue concentrations are well below the CBR to be of immediate concern.

· There was no indication of risk from mercury exposure and any exposure to mercury is probably not affecting mussel growth. The outfalls at Bremerton and Port Orchard may be sources of mercury at SIRP and POM, respectively. We do not believe that the higher concentrations of mercury found at SIRP and POM are directly related to activities associated with SCIA or SNAV. The elevated concentrations in mussel tissues may be related to differences in bioavailability and/or local sources. Additional caged bivalve studies could be used to clarify these and other sources of mercury or to reject this hypothesis.

· There was an indication of risk from exposure to arsenic and a potential indication of risk for cadmium at several stations. Exposure to these COC may be affecting mussel growth. However, the CBRs are probably too conservative for these metals. Nevertheless, since arsenic and cadmium have been identified as potential risk stressors in other studies, additional studies and literature searches should be conducted to clarify the potential risk associated with arsenic and cadmium which we identified as potential risk drivers.

· tPCBs were not found to be a risk at all stations except SCIA where concentrations in tissues were associated with adverse effects on mussel growth. When contaminant levels exceed tissue residue benchmarks it is likely that the chemical exposure may have contributed to the reduced growth observed along with other factors. Additional work is needed to relate the concentrations measured in mussel tissues and sediment to potential effects on other species in the overall risk assessment. An extensive amount of monitoring has been conducted on fish in Sinclair Inlet and these data could be used as a starting point (Johnston et al 2007).

· SCIA and SNAV are significantly different in terms of chemical exposure and effects endpoints, demonstrating the importance of small spatial scales in the Inlet as part of the overall risk assessment. Other caged mussel studies have demonstrated that stations can be significantly different in terms of exposure and effects when separated by as little as 2 meters vertical distance and a few hundred meters in horizontal distance. This demonstrates the folly of attempting to use a single station to characterize an entire water body such as Sinclair Inlet or even to characterize the PSNS/IMF complex. The 2005 caged mussel study has identified that SNAV and SCIA were very different in terms of exposure and effects, even though they are only separated by 1100 meters. Additional studies will be required to conduct an adequate ecological risk assessment of the PSNS/IMF complex.

• SIRP and POM are unexpectedly high in both sediment and tissue concentrations of several metals. These results may be attributed to several factors, including depositional areas of Sinclair Inlet, high concentrations of COC in treatment plant outfalls at Bremerton and Port Orchard, and marina activities.

• The data suggest sediment as a source for some chemicals, sediment and water as sources for others and primarily water for other chemicals. The 2005 caged mussel study was not designed to categorically differentiate differences in exposure pathways for each chemical because there was insufficient replication. Nevertheless, replication of mussel cages at various depths could establish these pathways of exposure more clearly. Similarly, strategic transplants along suspected chemical gradients could mor clearly identify sources.

## 7.0 ACKNOWLEDGMENTS

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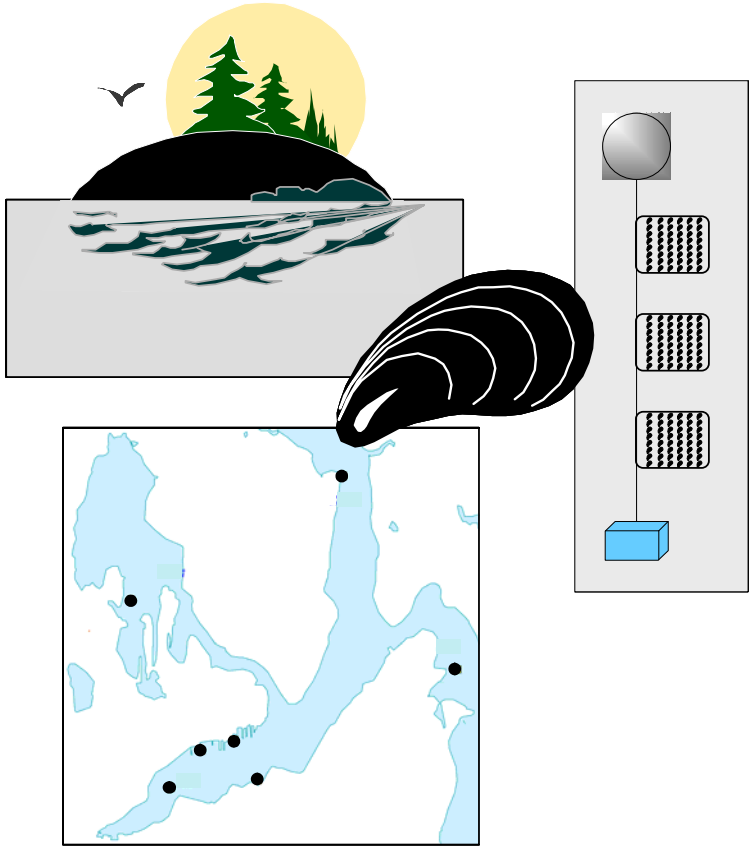
# ENVVEST 2005 Caged Mussel Study: Puget Sound Naval Shipyard & Intermediate Maintenance Facility
# Using Caged Mussels to Characterize Exposure and Effects over Small Spatial Scales in Sinclair Inlet: A Risk Assessment-Based Approach



# Figures

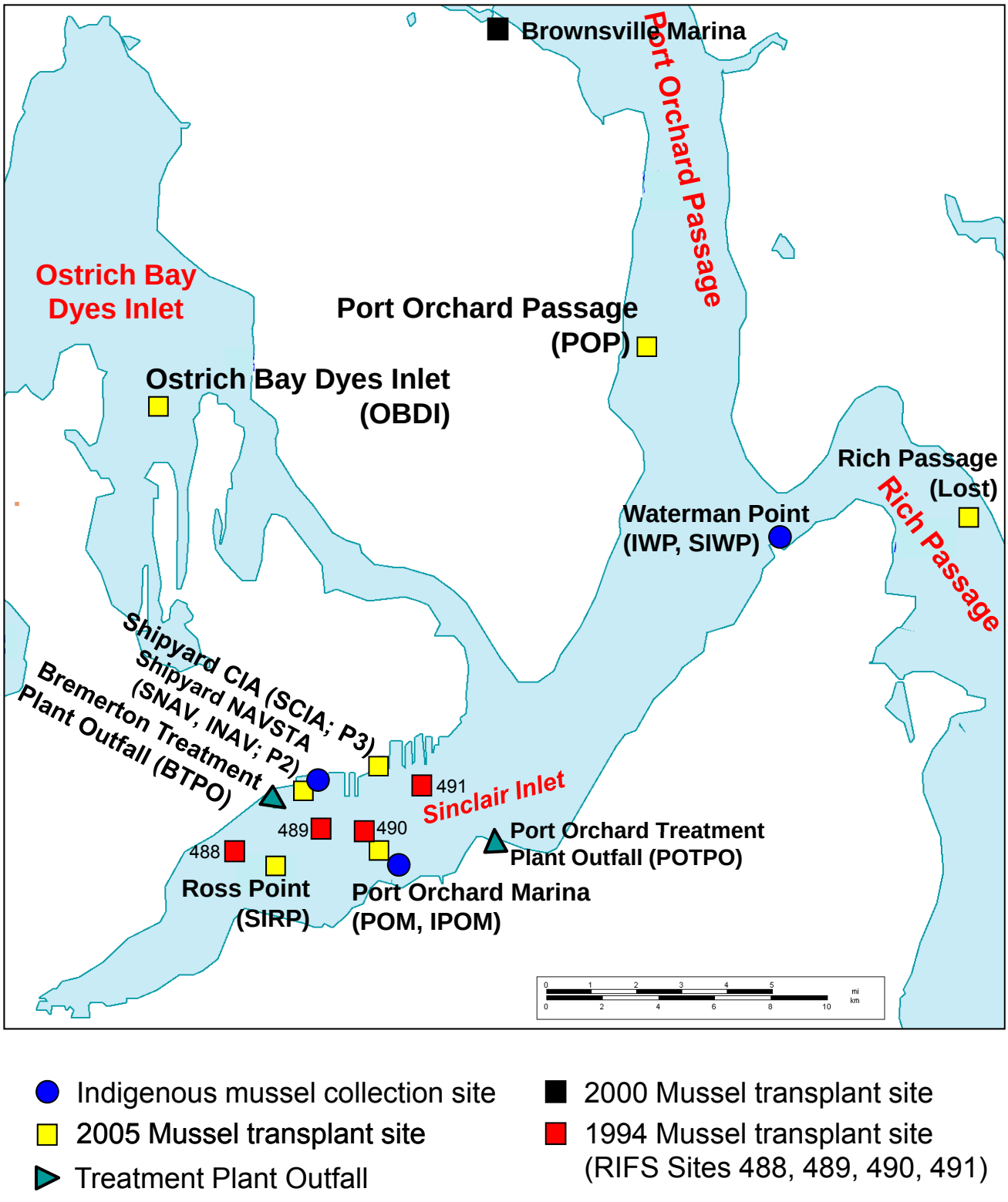



Figure 1. Mussel transplant sites, indigenous mussel collection sites, and stations from previous monitoring events.

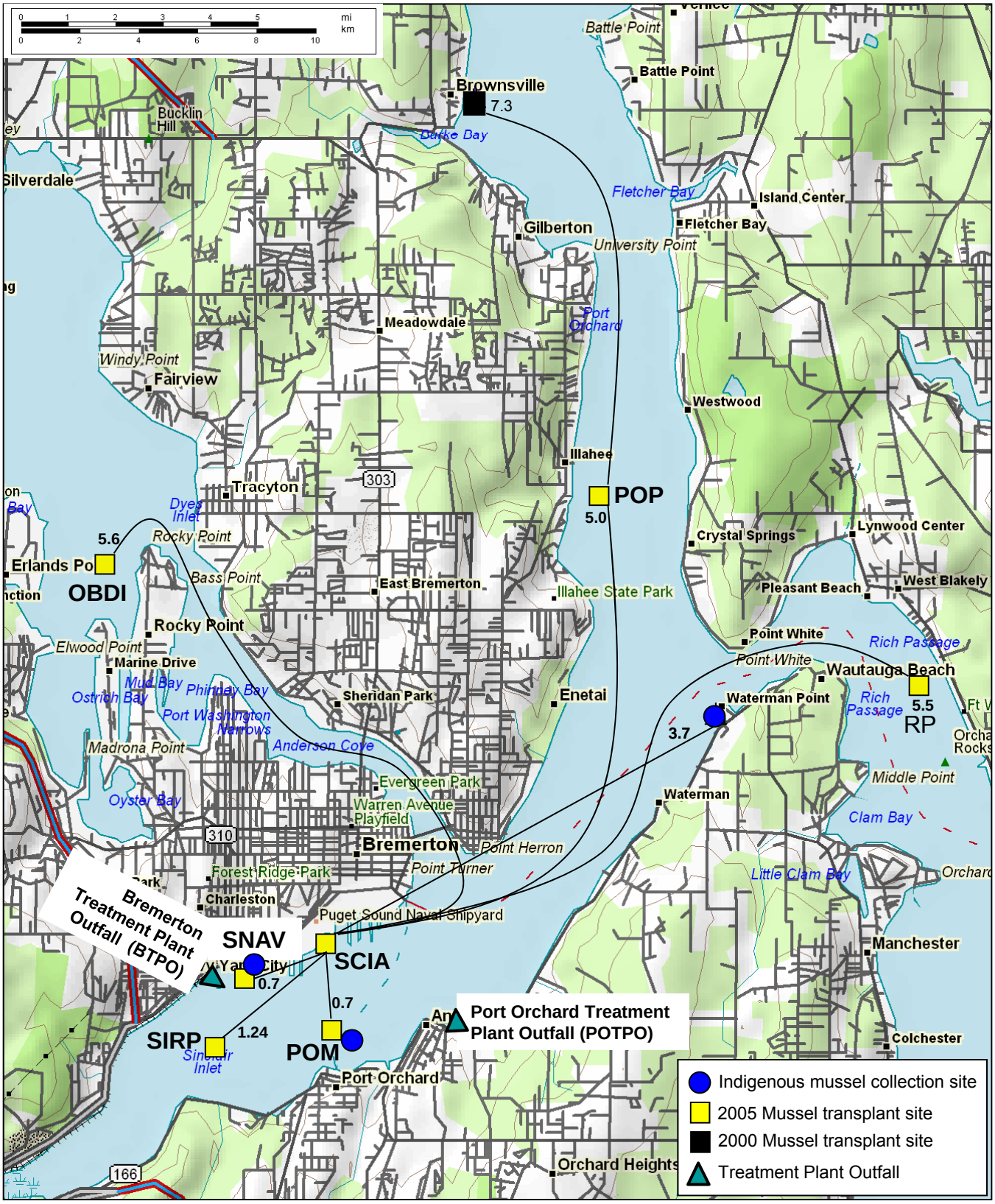



Figure 2. Relative distances (miles) between SICA and other transplant stations, indigenous mussel collection stations in this study, and the Cherry Pt. 2000 study.

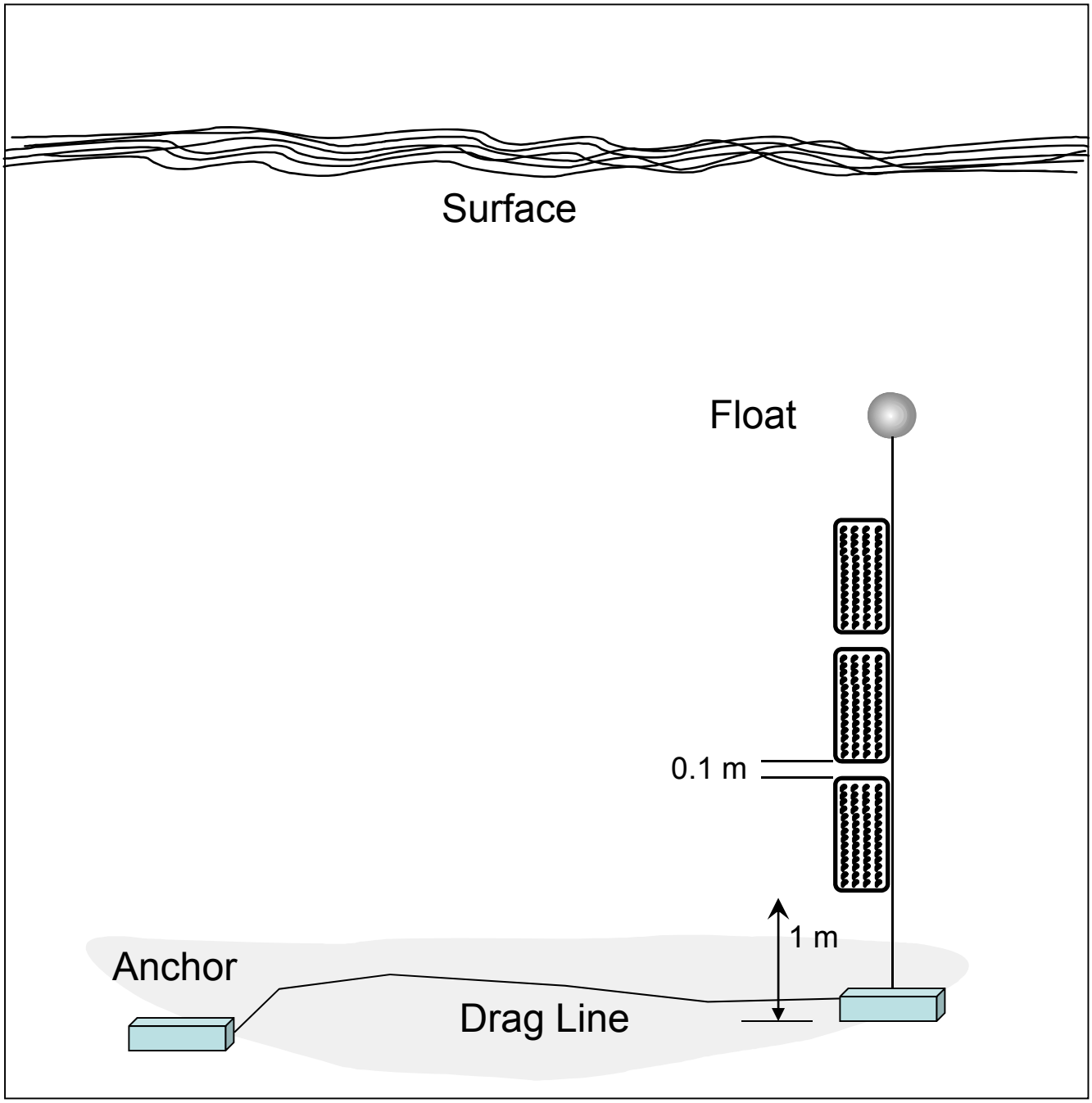



Figure 3. Mussel deployment configuration showing subsurface float, cages, anchors, and drag line.

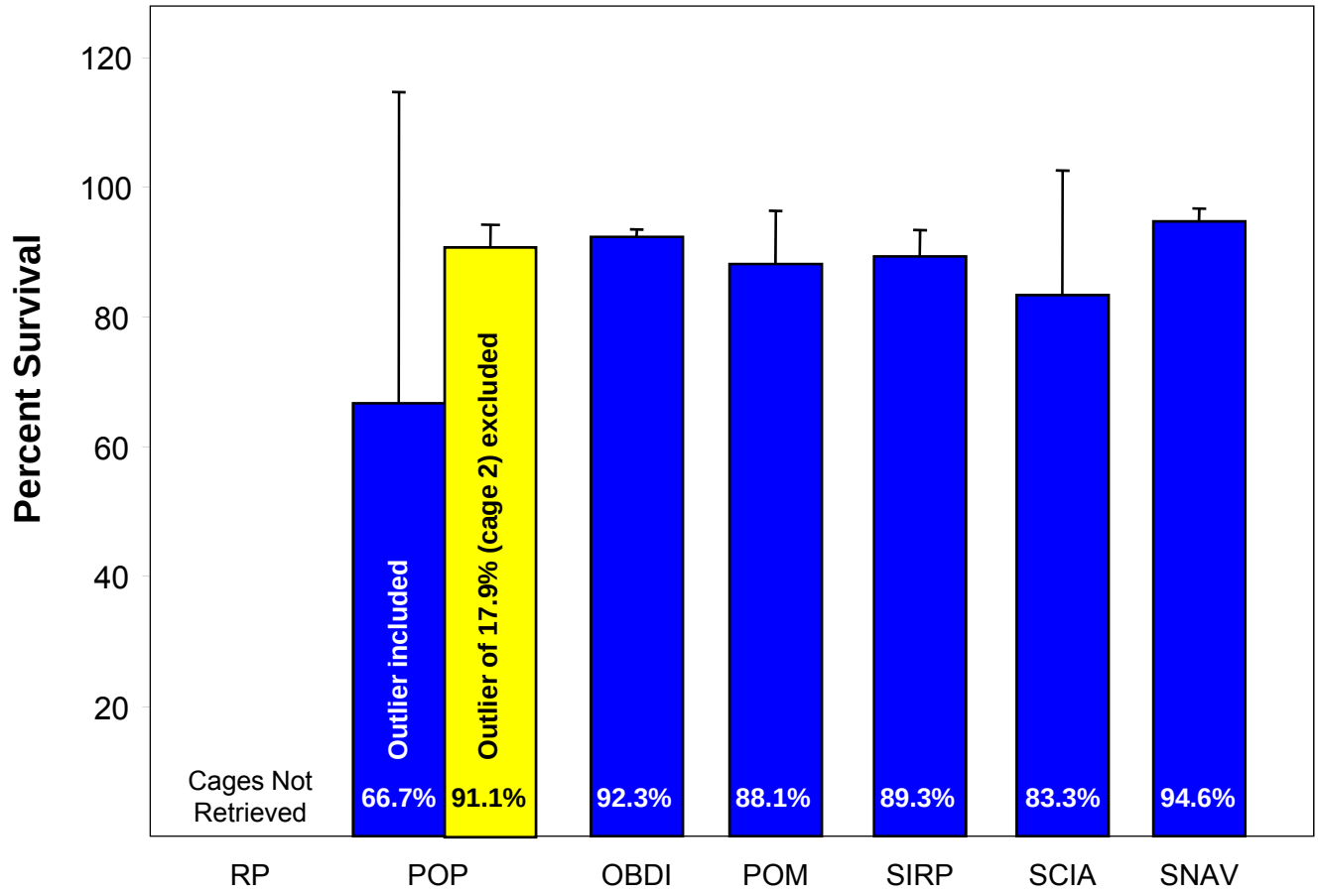



Figure 4. Percent survival by station, with and without outlier at POP.

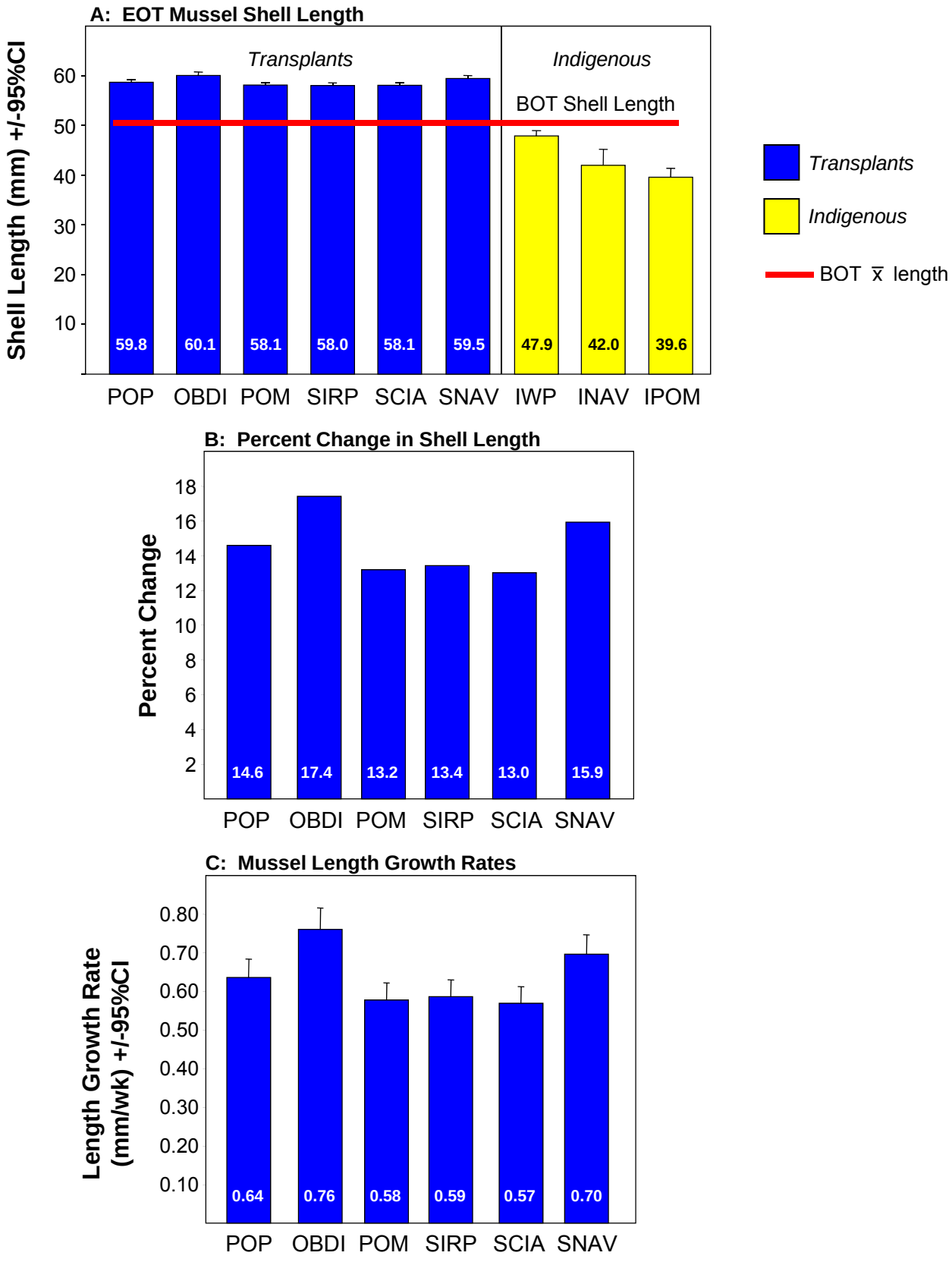



Figure 5. Mussel length metrics: A = EOT shell length; B = percent change in shell length; C = length growth rate (mm/wk).

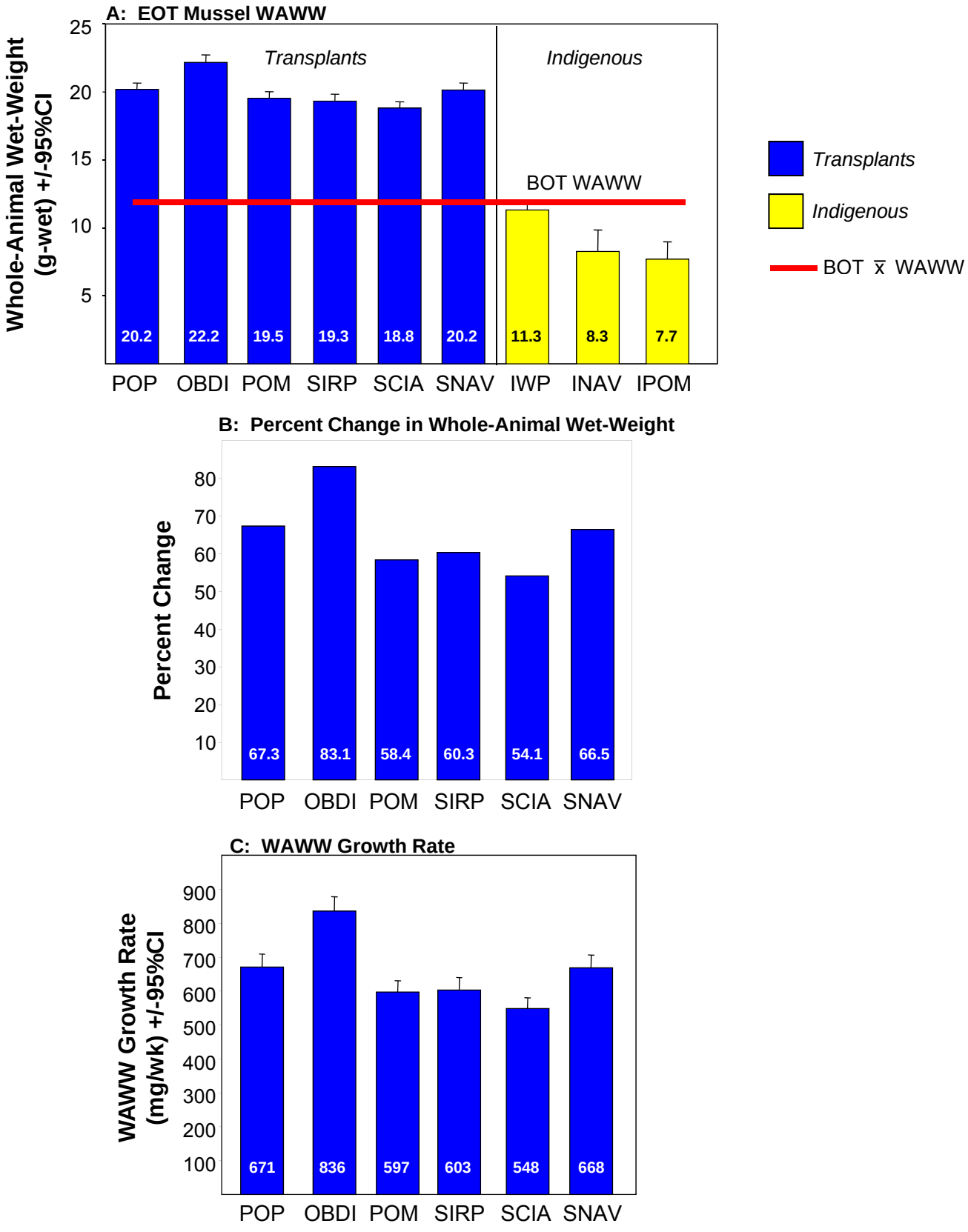



Figure 6. Mussel WAWW metrics: A = EOT WAWW; B = percent change in WAWW; C = WAWW growth rate (mg/wk).

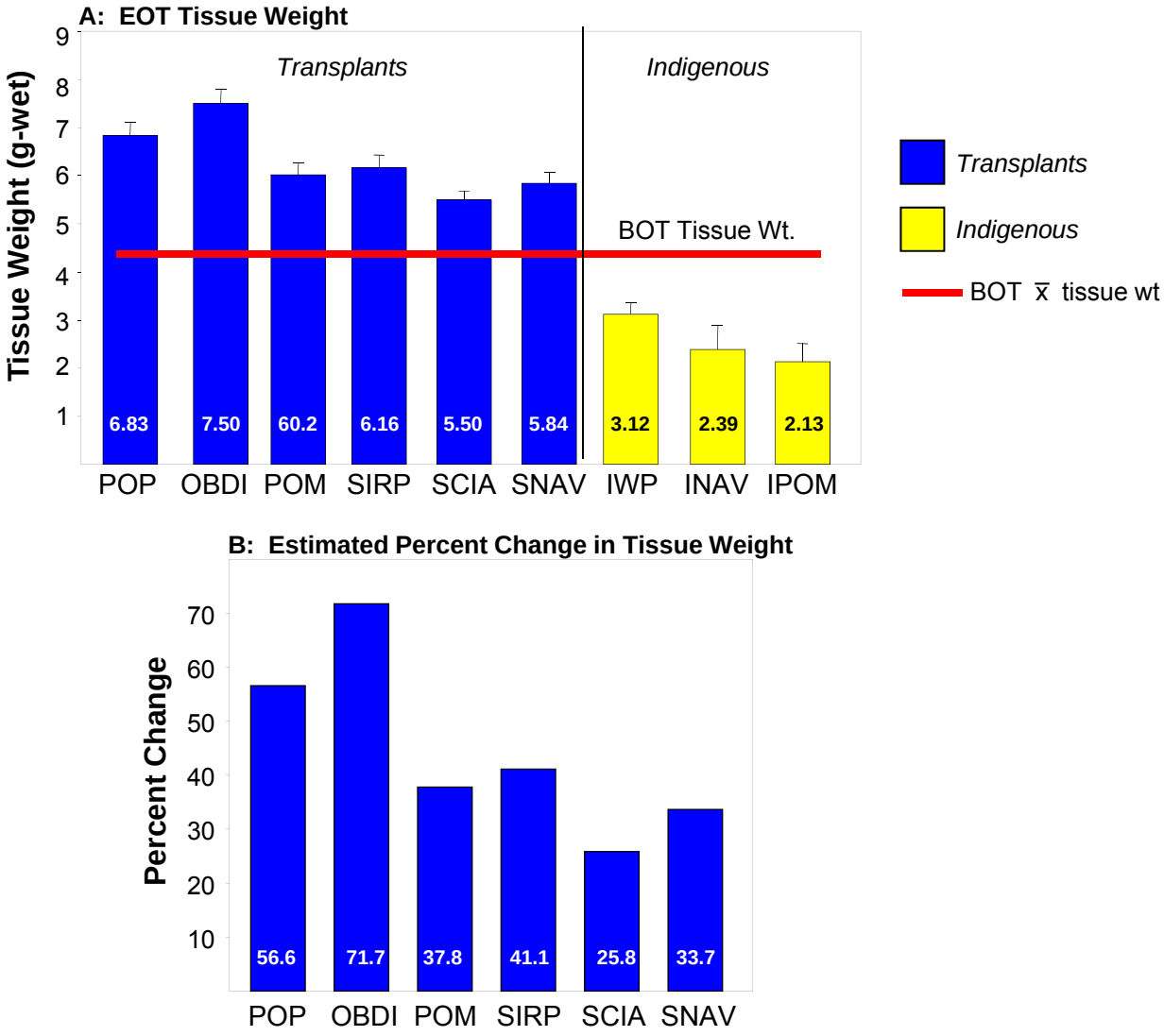



Figure 7. Mussel tissue weight metrics: A = EOT tissue weight compared to BOT; B = percent change in tissue weight.

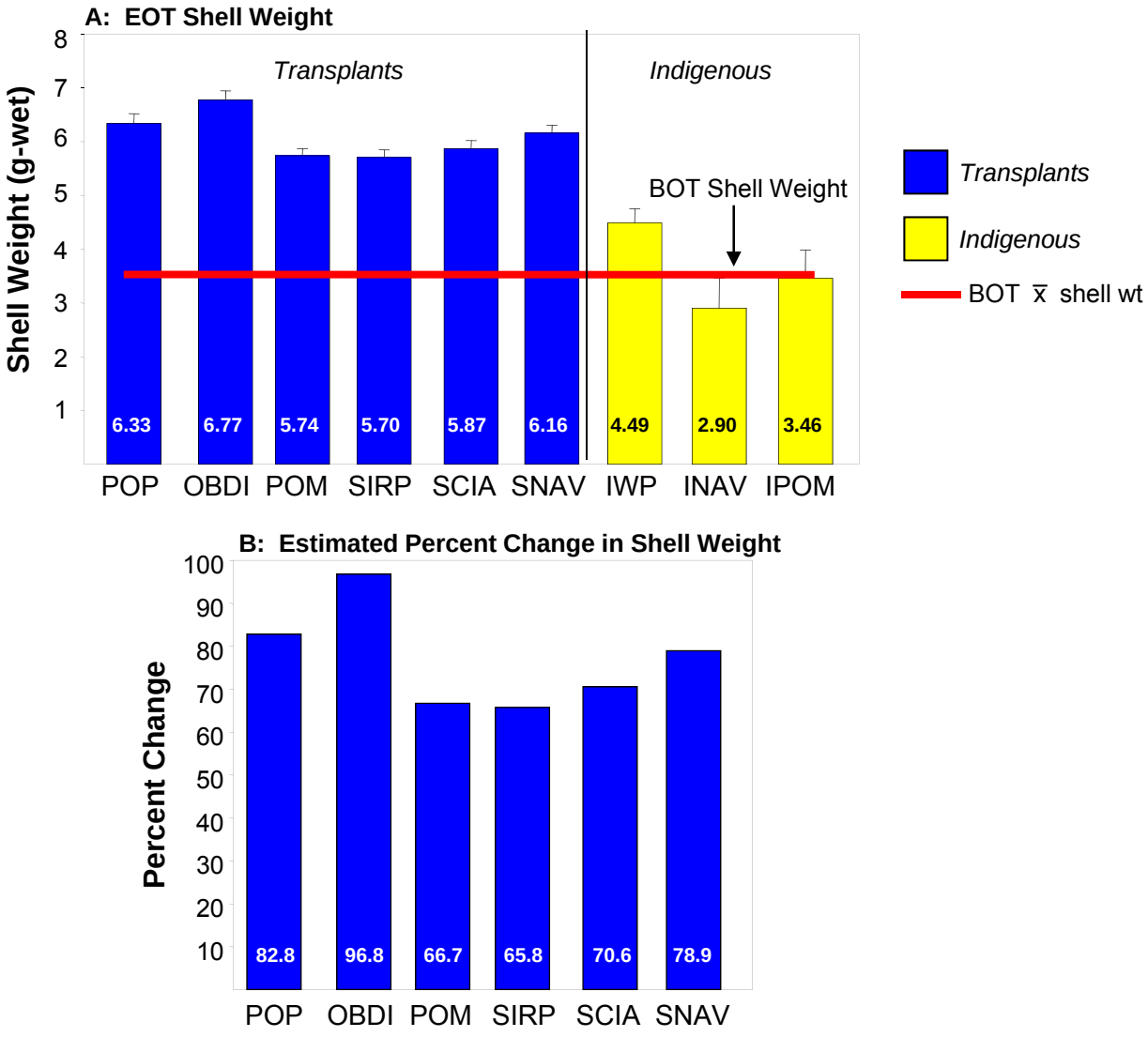



Figure 8. Mussel shell weight metrics: A = EOT shell weight compared to BOT; B = percent change in shell weight.

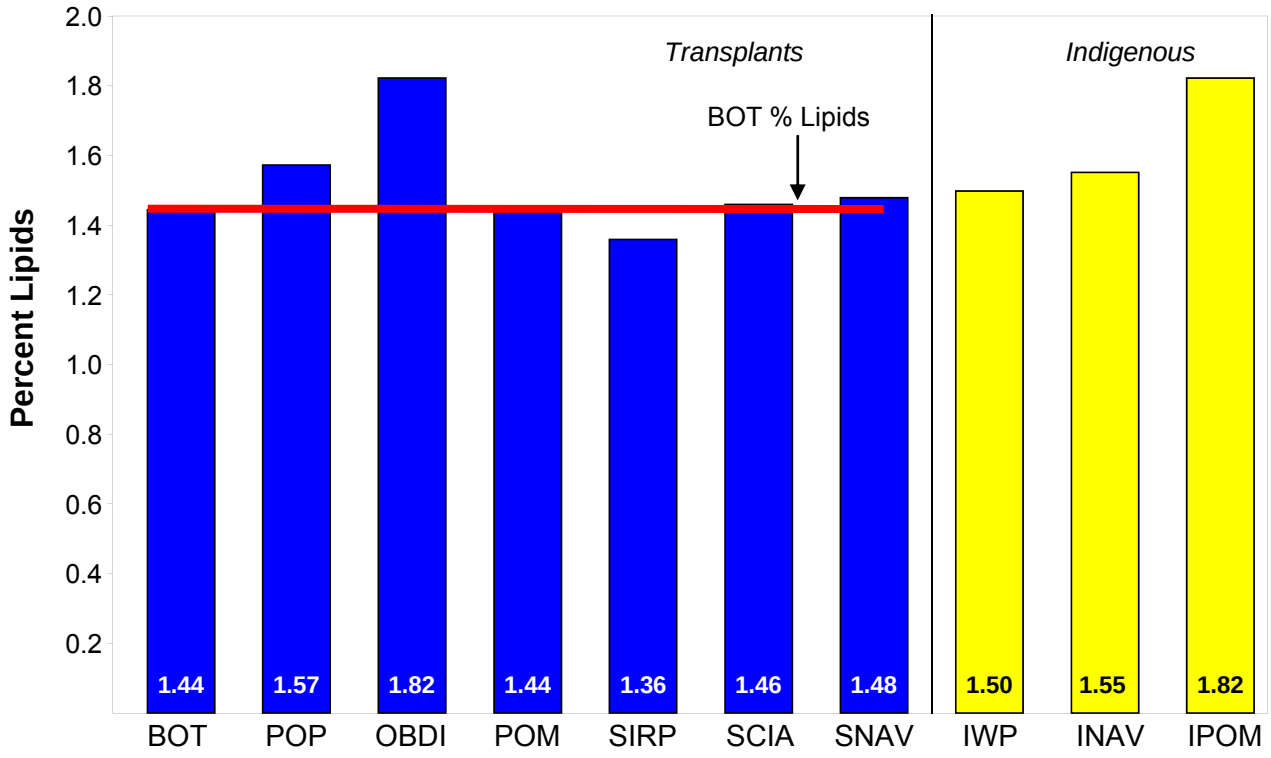



Figure 9. Percent lipids in mussel tissues.

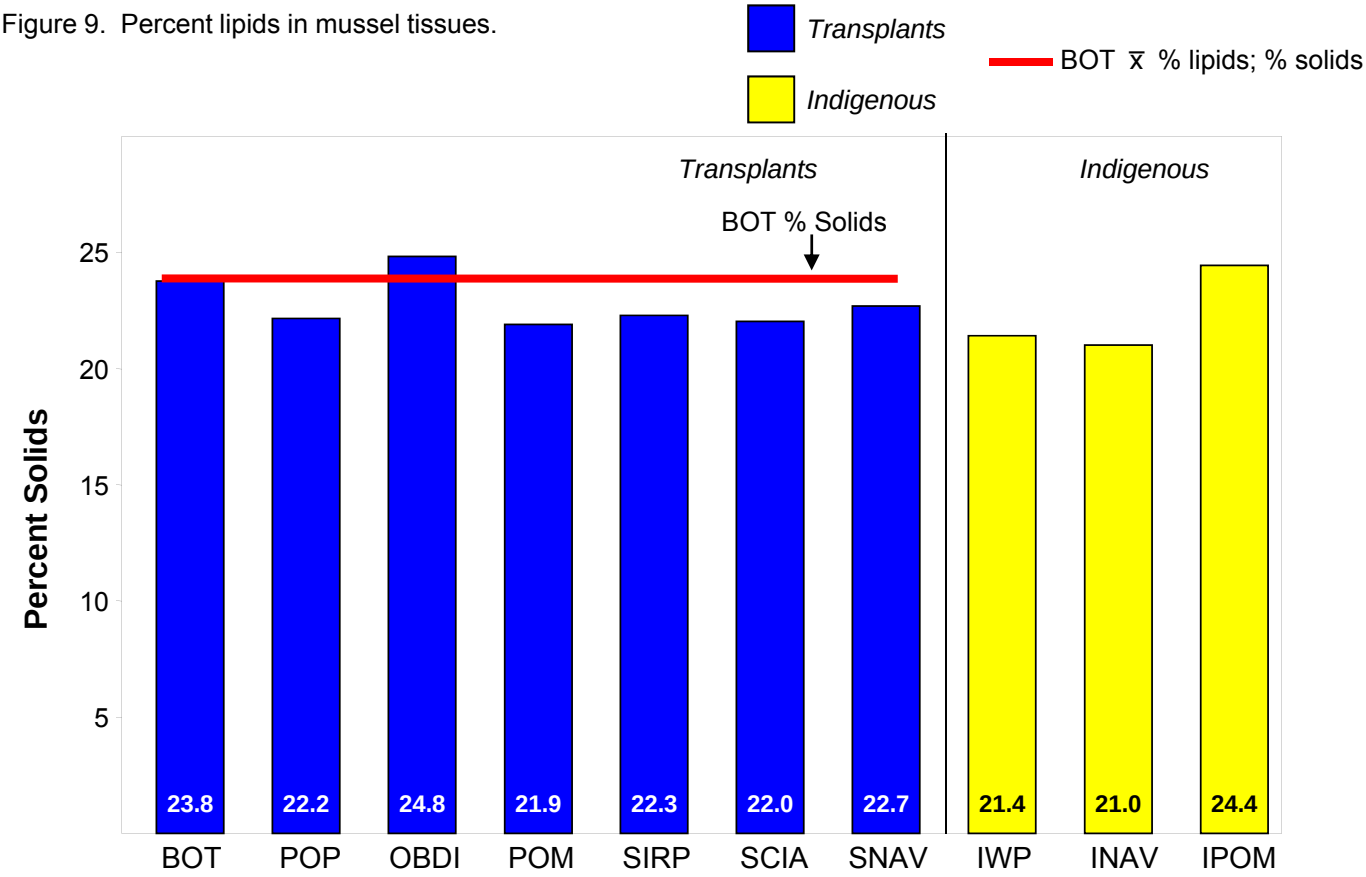



Figure 10. Percent solids in mussel tissues.

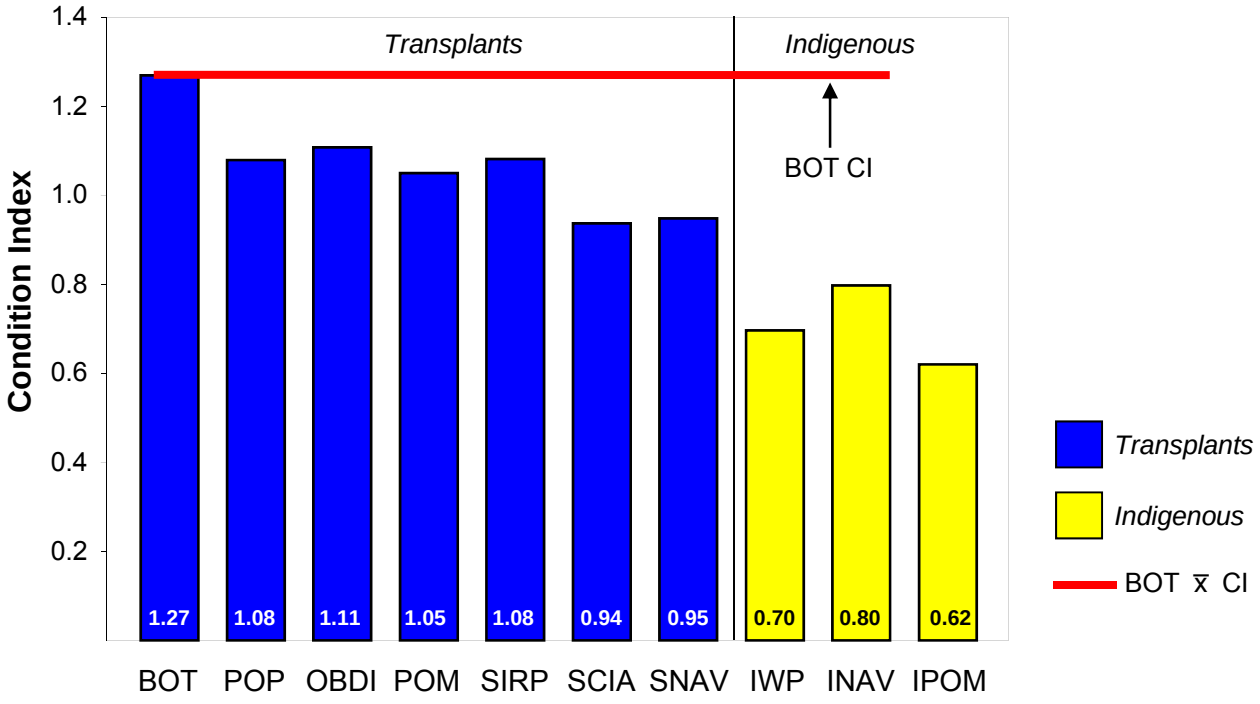



Figure 11. Condition Index (CI) calculated as tissue weight / shell weight.

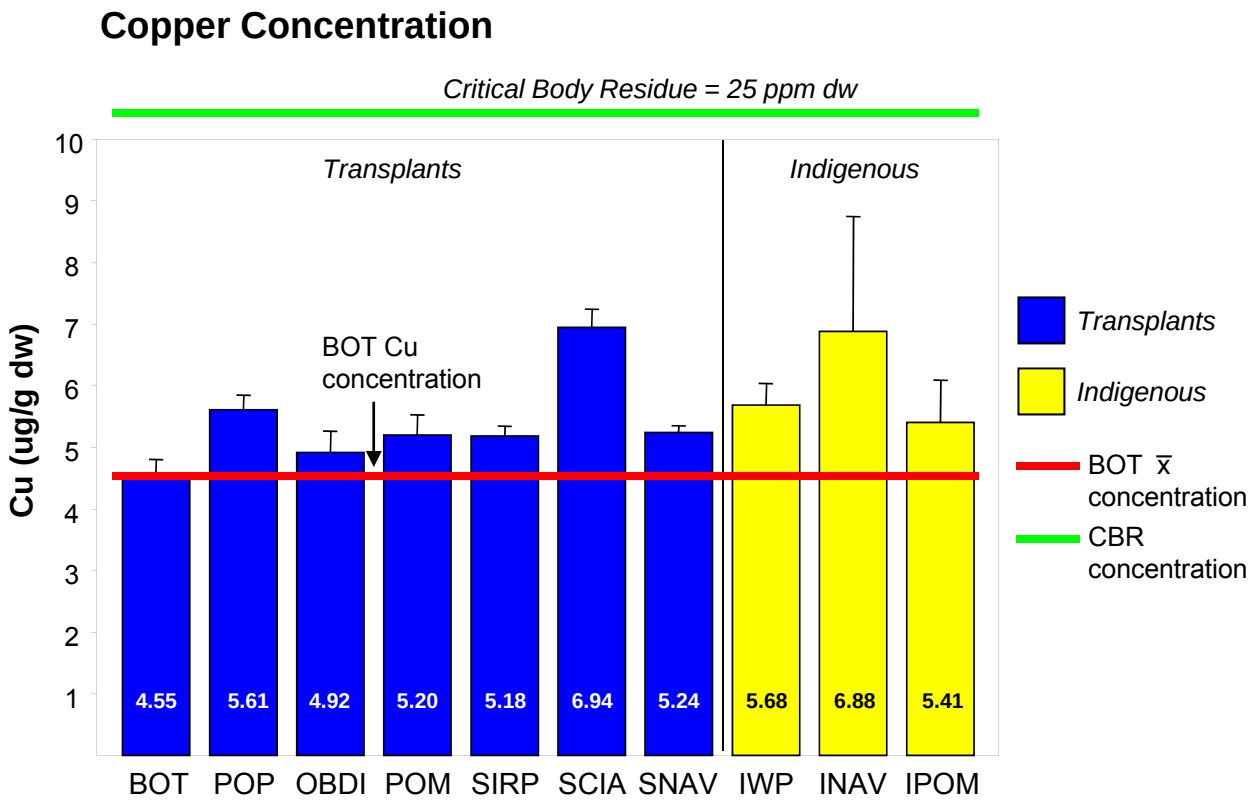



Figure 12A. Copper concentrations measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Copper in indigenous mussels is also shown.

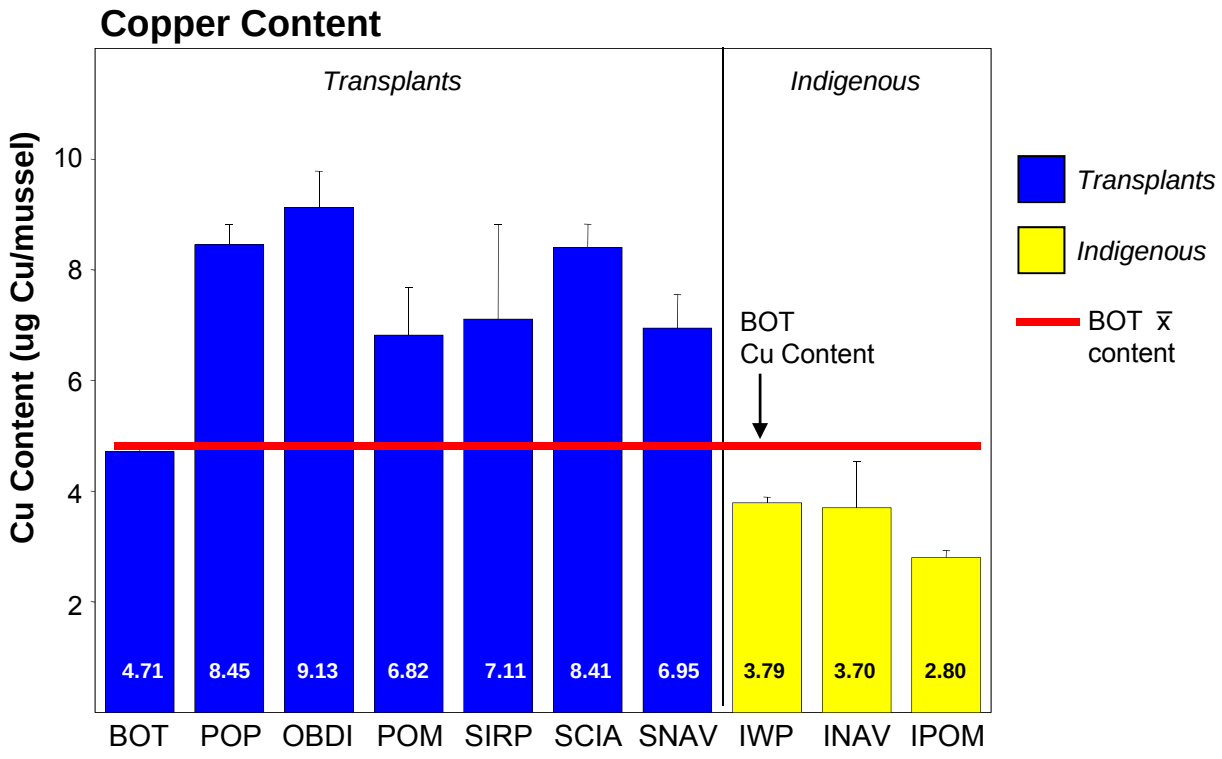
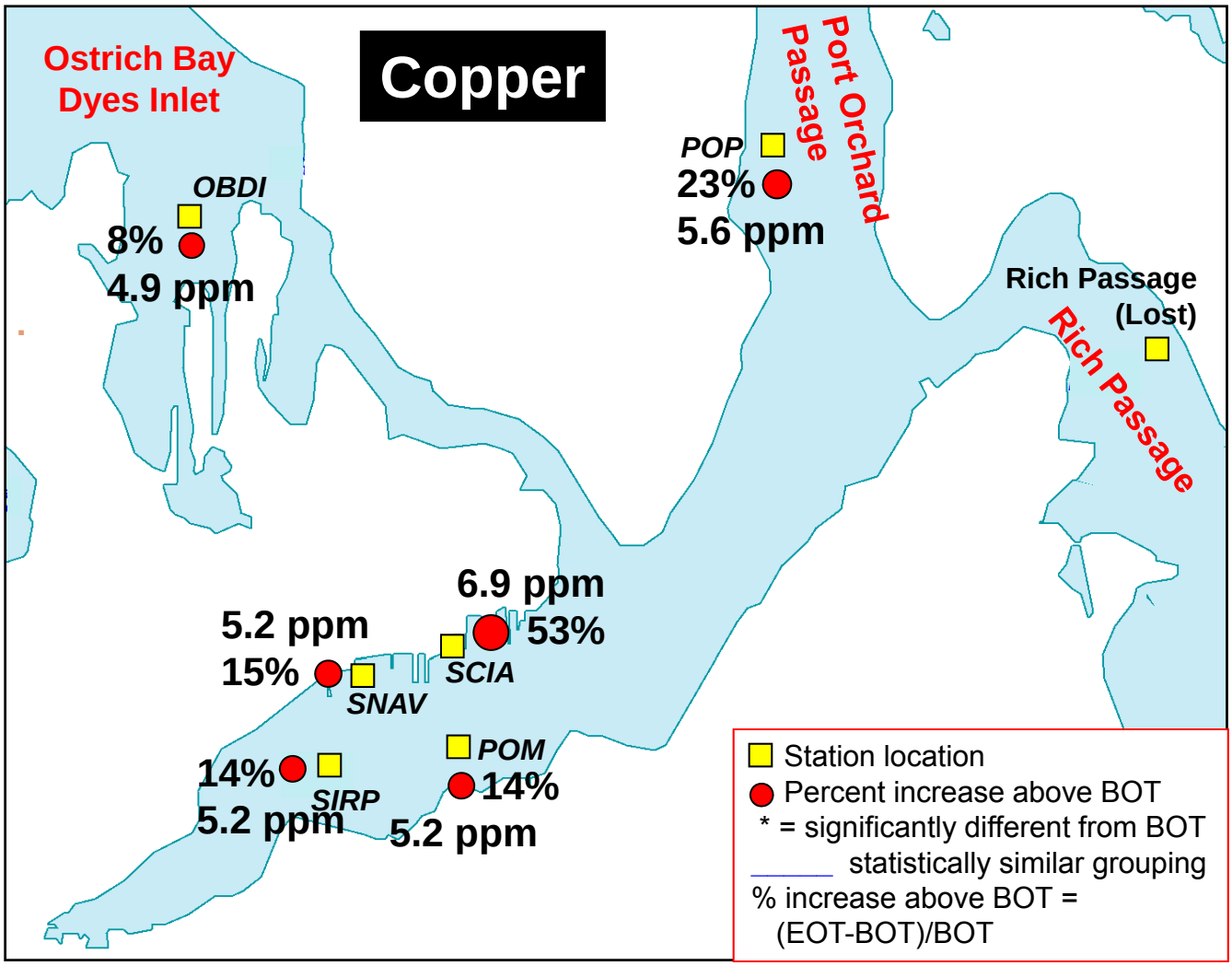



Figure 12B. Copper content calculated in mussel tissues at BOT and EOT. Copper content in indigenous mussels is also shown.




| BOT | OBDI | SIRP * | POM * | SNAV * | POP * | SCIA * |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT = 4.6 ppm dw (ug/g dw)
$\overline{X}$ EOT = 5.51 ppm dw
**Mean % Increase above BOT = 21.3%**

Critical Body Residue (CBR) = 25 ppm dw
Mean SFG = 20 ppm dw (Salazar & Salazar, 2006)
**All measurements below CBR**

Mussel Watch National Mean = 10.5 ppm dw

Figure 13. Copper in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

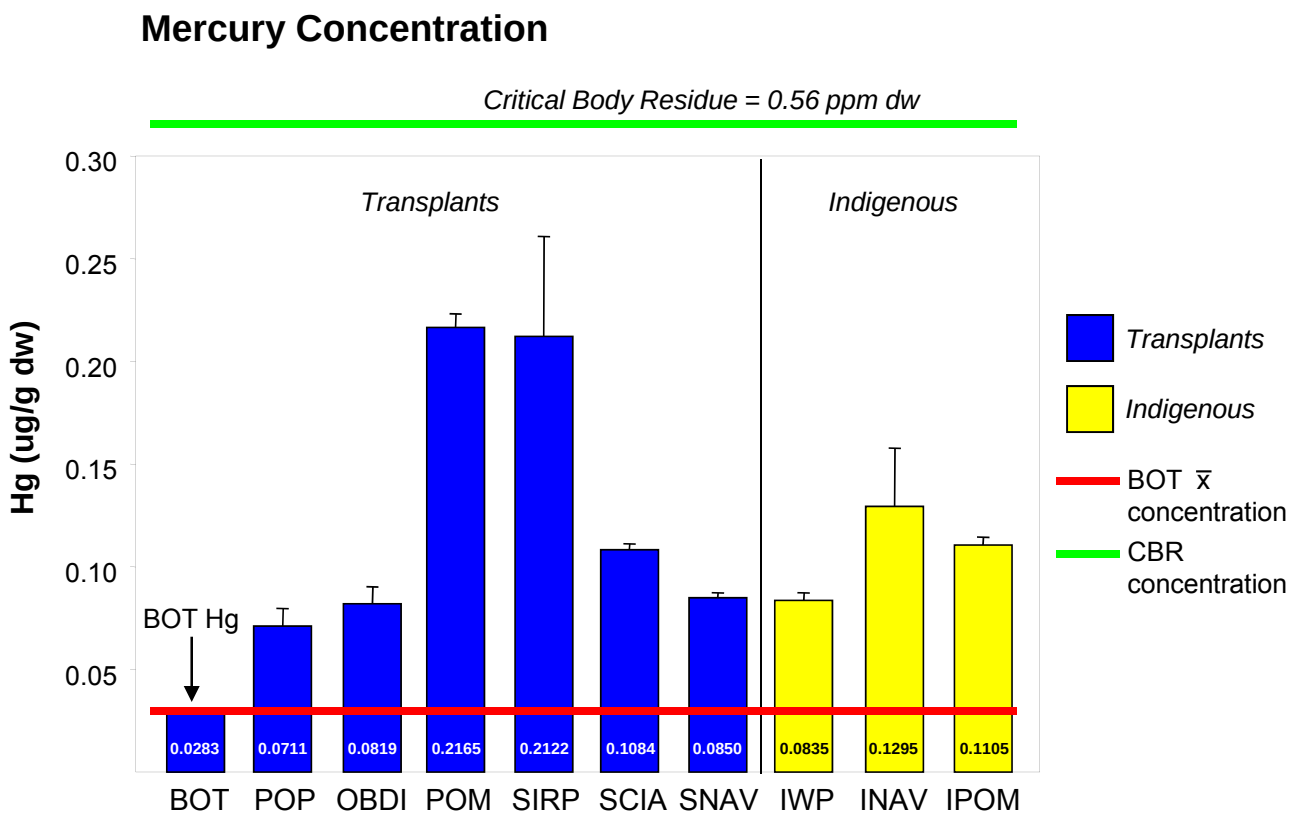



Figure 14A. Mercury concentrations measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is mercury in indigenous mussels.

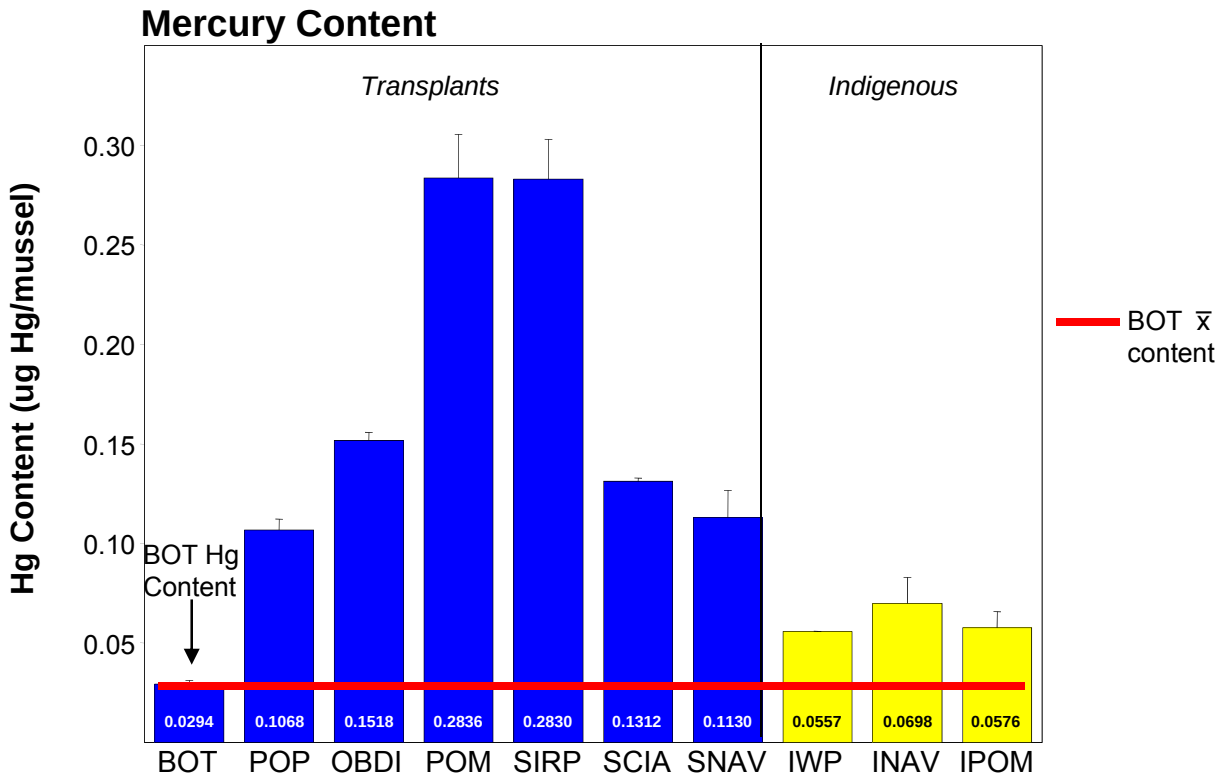
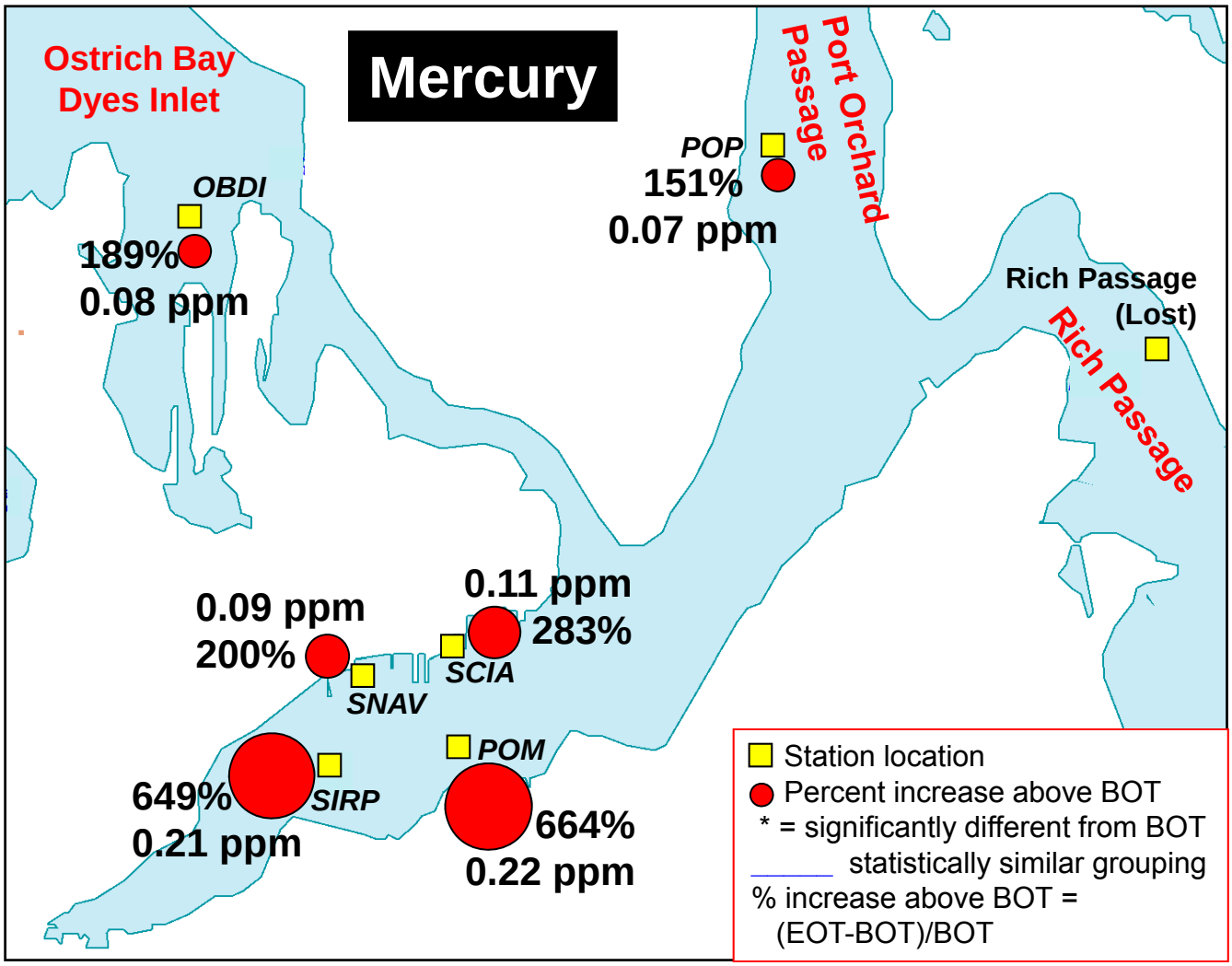



Figure 14B. Mercury content calculated in mussel tissues at BOT and EOT. Also shown is mercury content in indigenous mussels.




| BOT | POP * | OBDI * | SNAV * | SCIA * | SIRP * | POM |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT = 0.028 ppm dw (ug/g dw)
$\overline{X}$ EOT = 0.13 ppm dw
**Mean % Increase above BOT = 356%**

Critical Body Residue (CBR) = 0.56 ppm dw
Scope for Growth (Martin et al. 1984)
**All measurements below CBR**

Mussel Watch National Mean = 0.184 ppm dw

Figure 15. Mercury in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

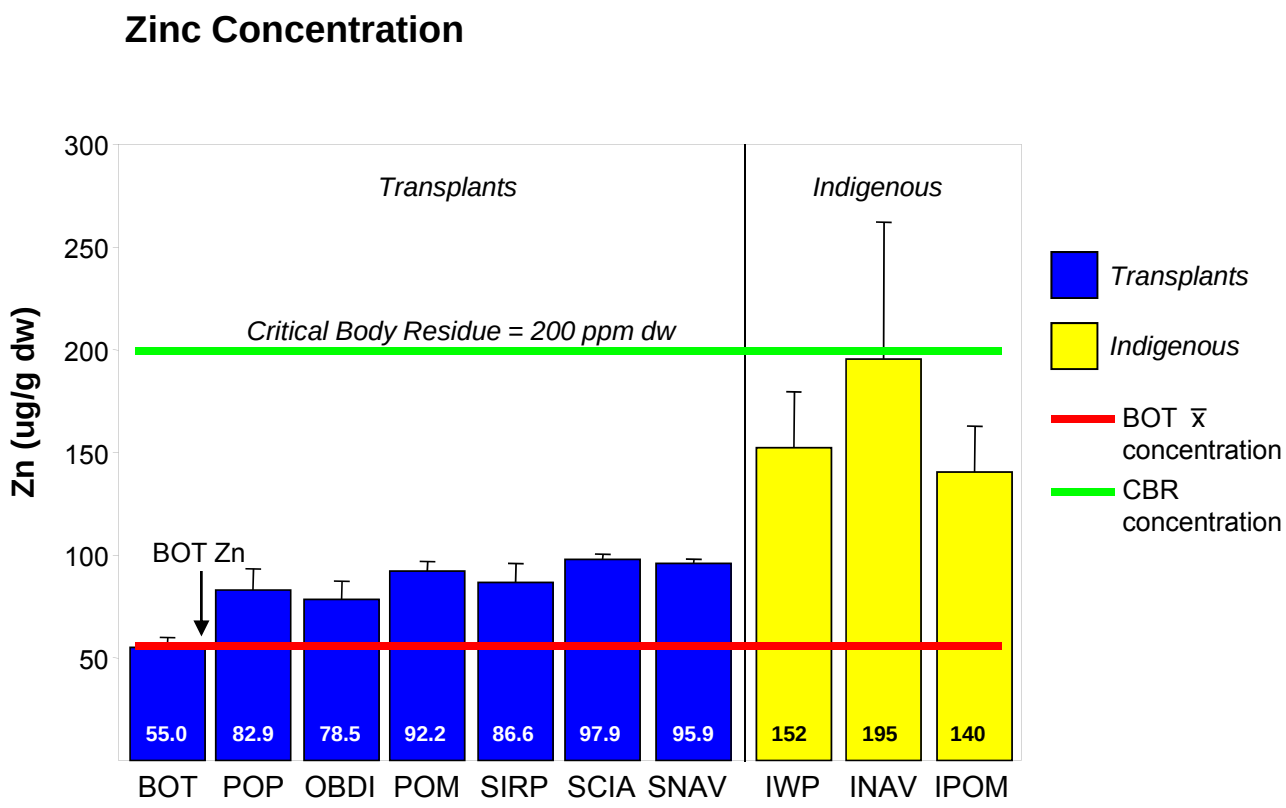



Figure 16A. Zinc concentrations measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is zinc in indigenous mussels.

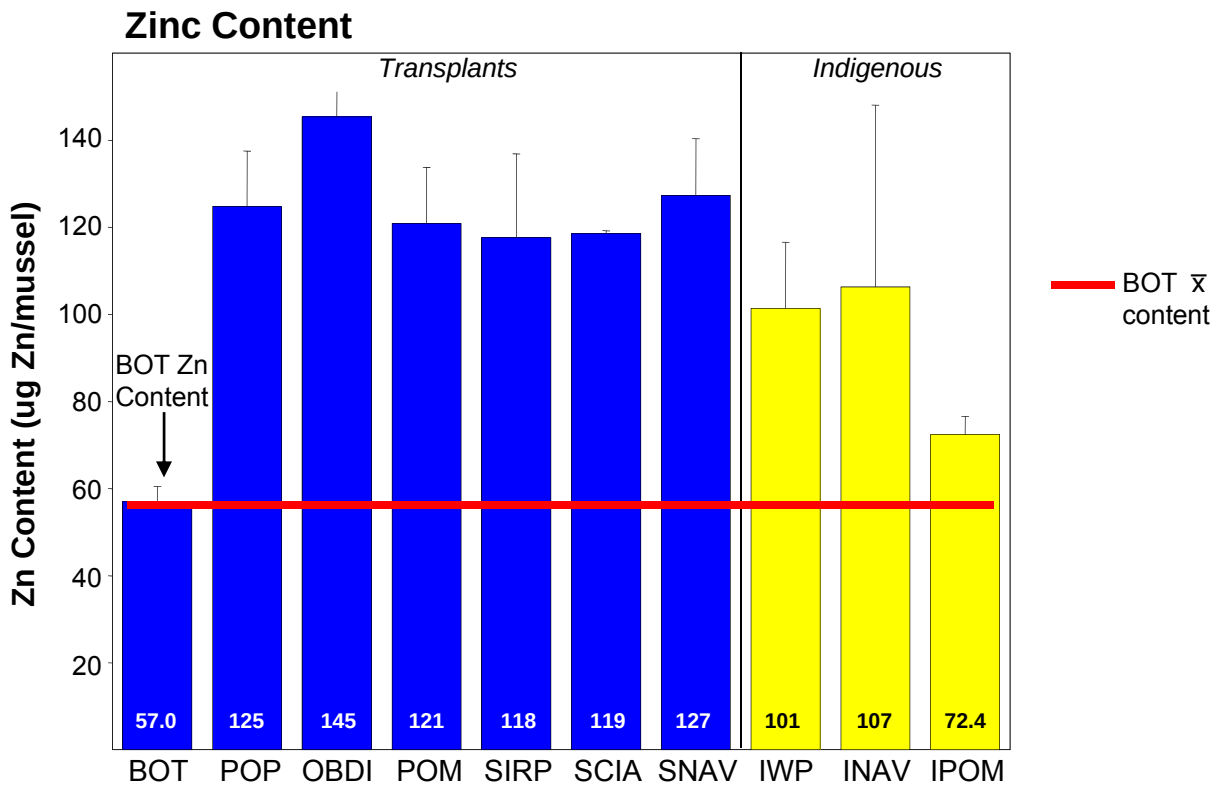
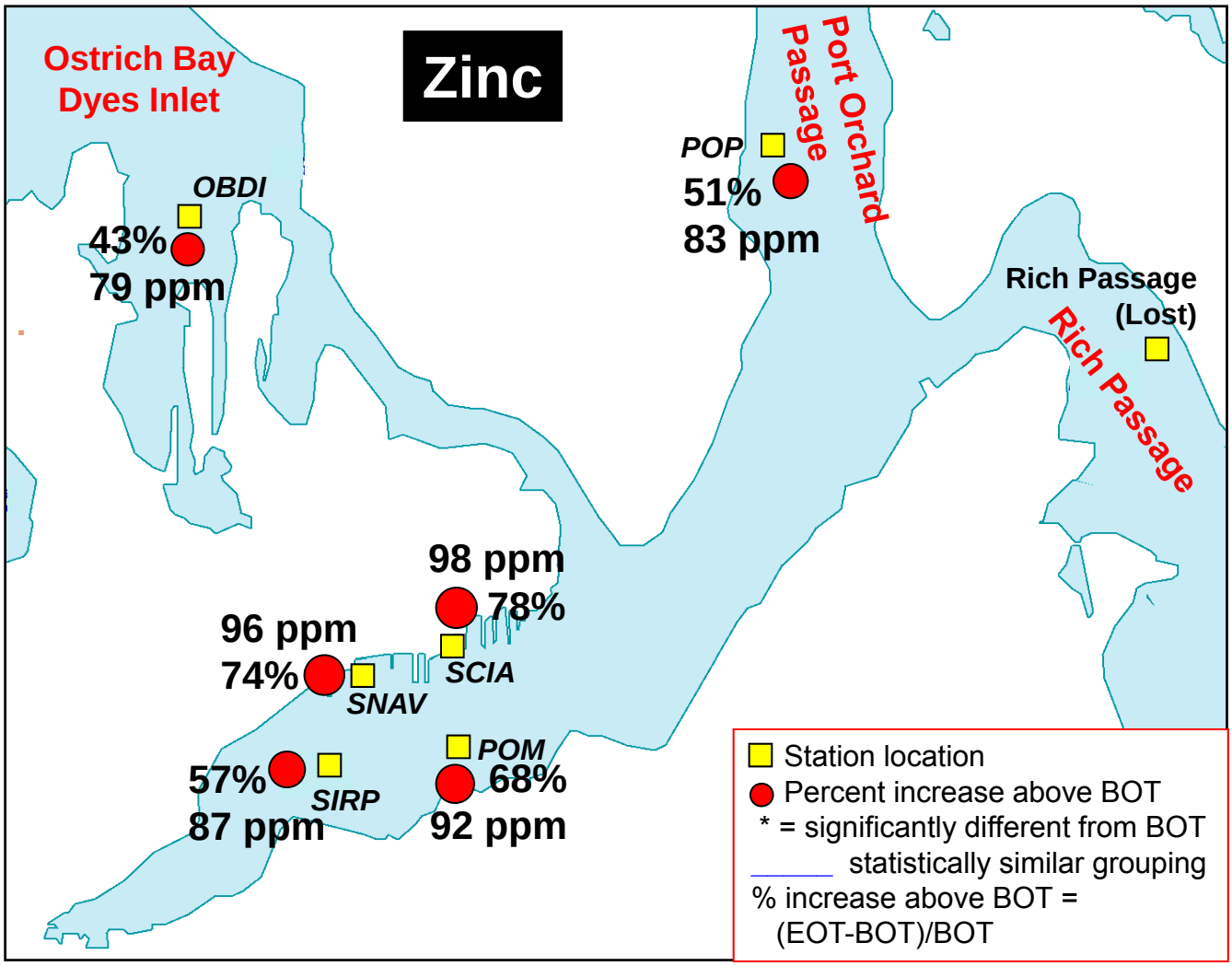



Figure 16B. Zinc content calculated in mussel tissues at BOT and EOT. Also shown is zinc content in indigenous mussels.




| BOT | OBDI* | POP* | SIRP* | POM* | SNAV* | SCIA* |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT = 55 ppm dw (ug/g dw)
$\overline{X}$ EOT = 89 ppm dw
**Mean % Increase above BOT = 61.7%**

Critical Body Residue (CBR) = 200 ppm dw
Scope for Growth (Martin et al. 1984)
**All measurements below CBR**

Mussel Watch National Mean = 127 ppm dw

Figure 17. Zinc in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

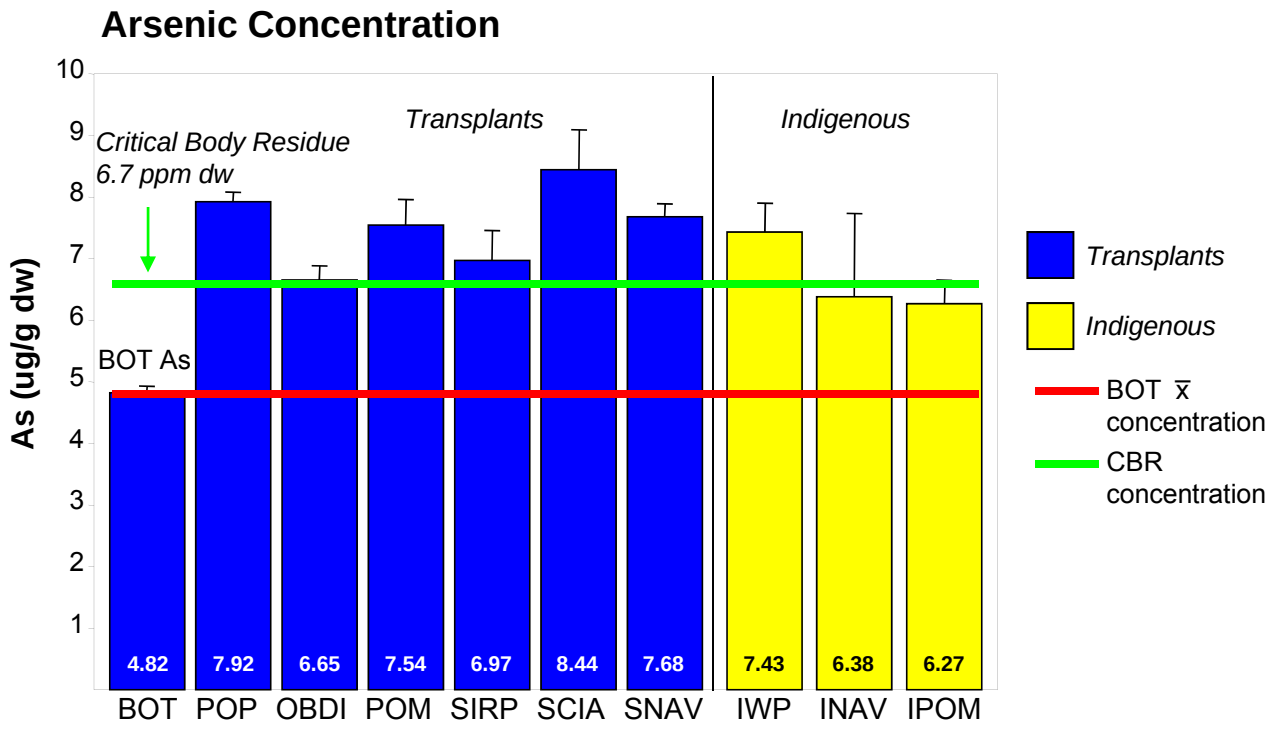



Figure 18A. Arsenic concentrations measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is arsenic in indigenous mussels.

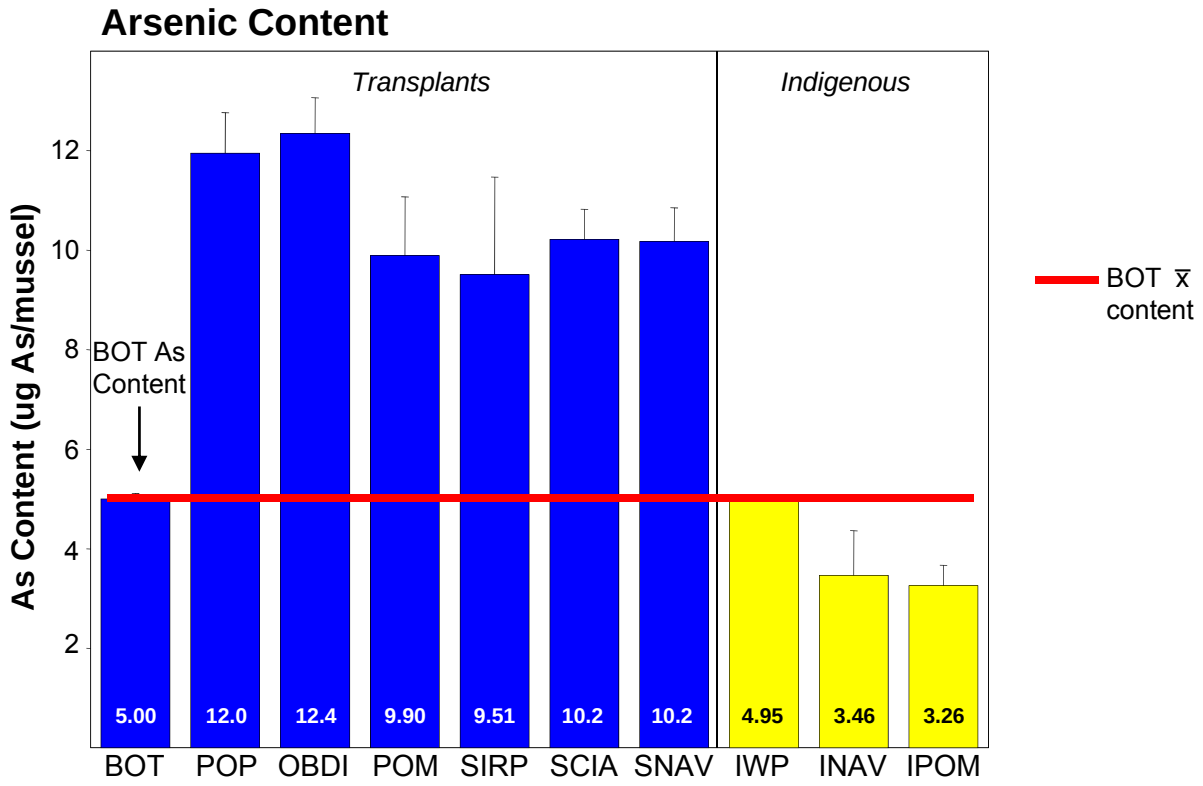
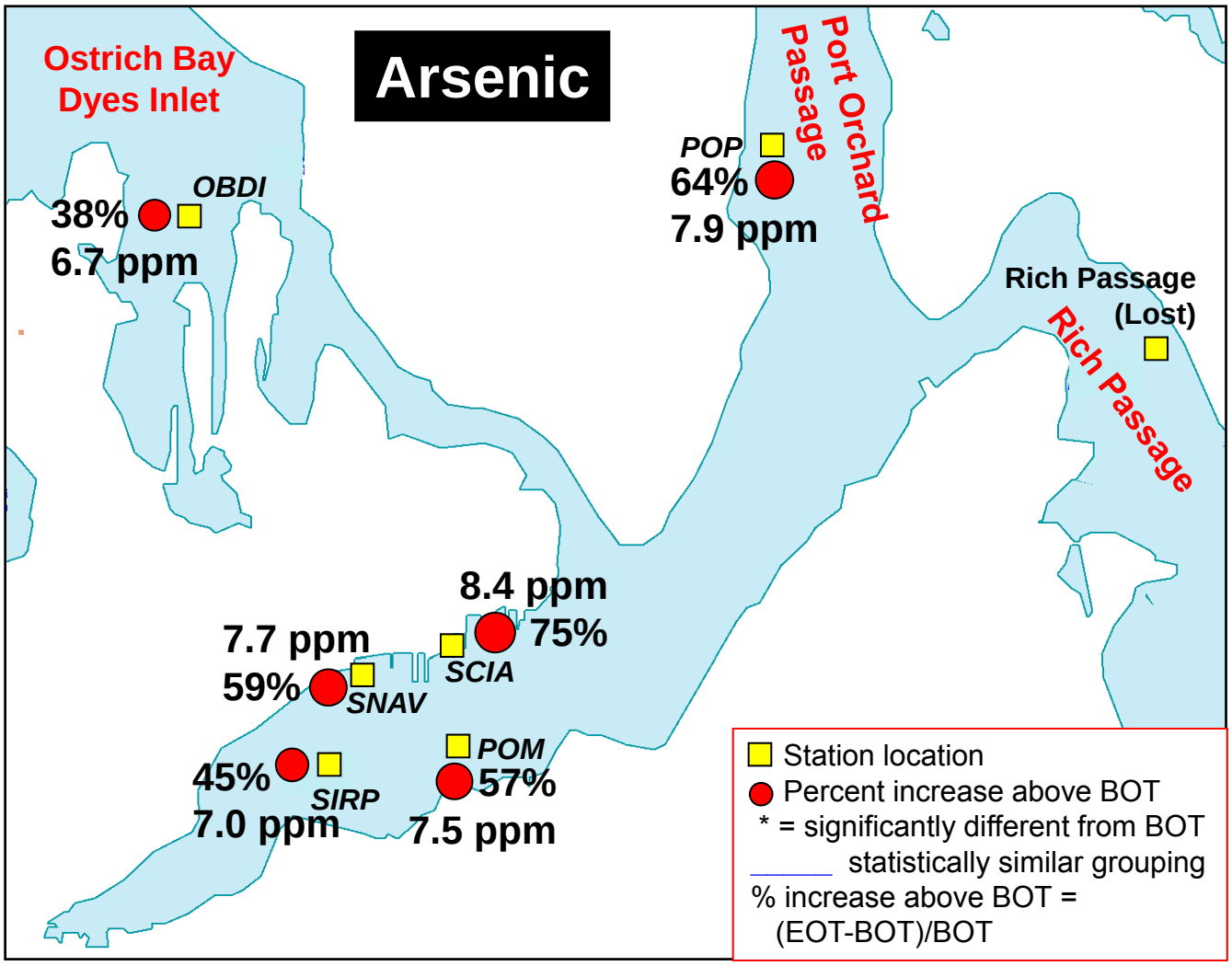



Figure 18B. Arsenic content calculated in mussel tissues at BOT and EOT. Also shown is arsenic content in indigenous mussels.




| BOT | OBDI* | SIRP* | POM* | SNAV* | POP* | SCIA* |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT = 4.82 ppm dw (ug/g dw)
$\overline{X}$ EOT = 7.53 ppm dw
**Mean % Increase above BOT = 56.3%**

Critical Body Residue (CBR) = 6.66 ppm dw
Scope for Growth (Martin et al. 1984)
**All measurements above CBR**

Mussel Watch National Mean = 10.5 ppm dw

Figure 19. Arsenic in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

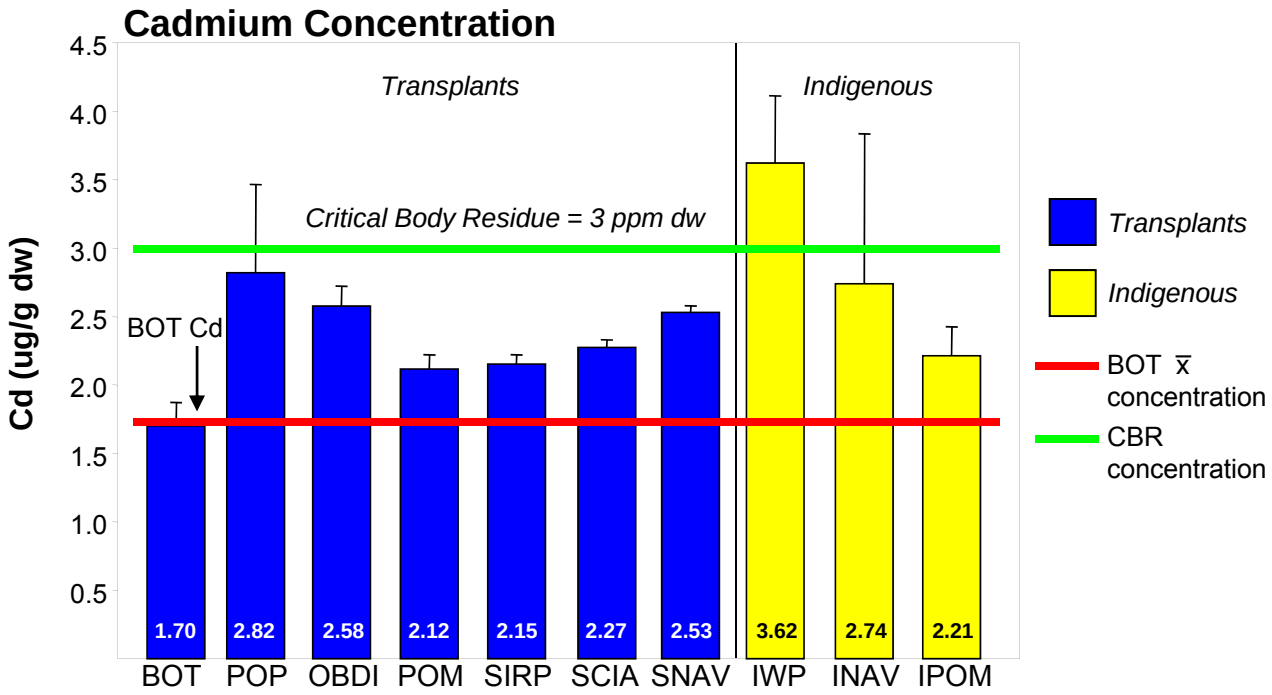



Figure 20A. Cadmium concentrations measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is cadmium in indigenous mussels.

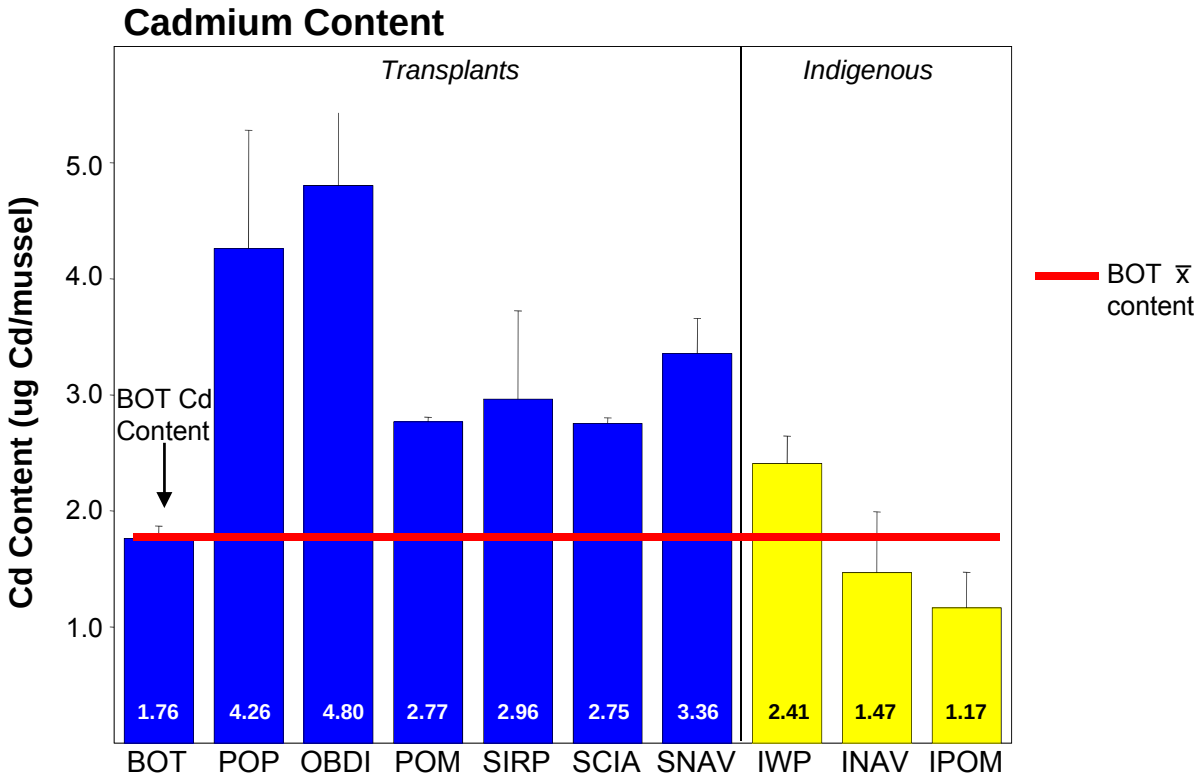
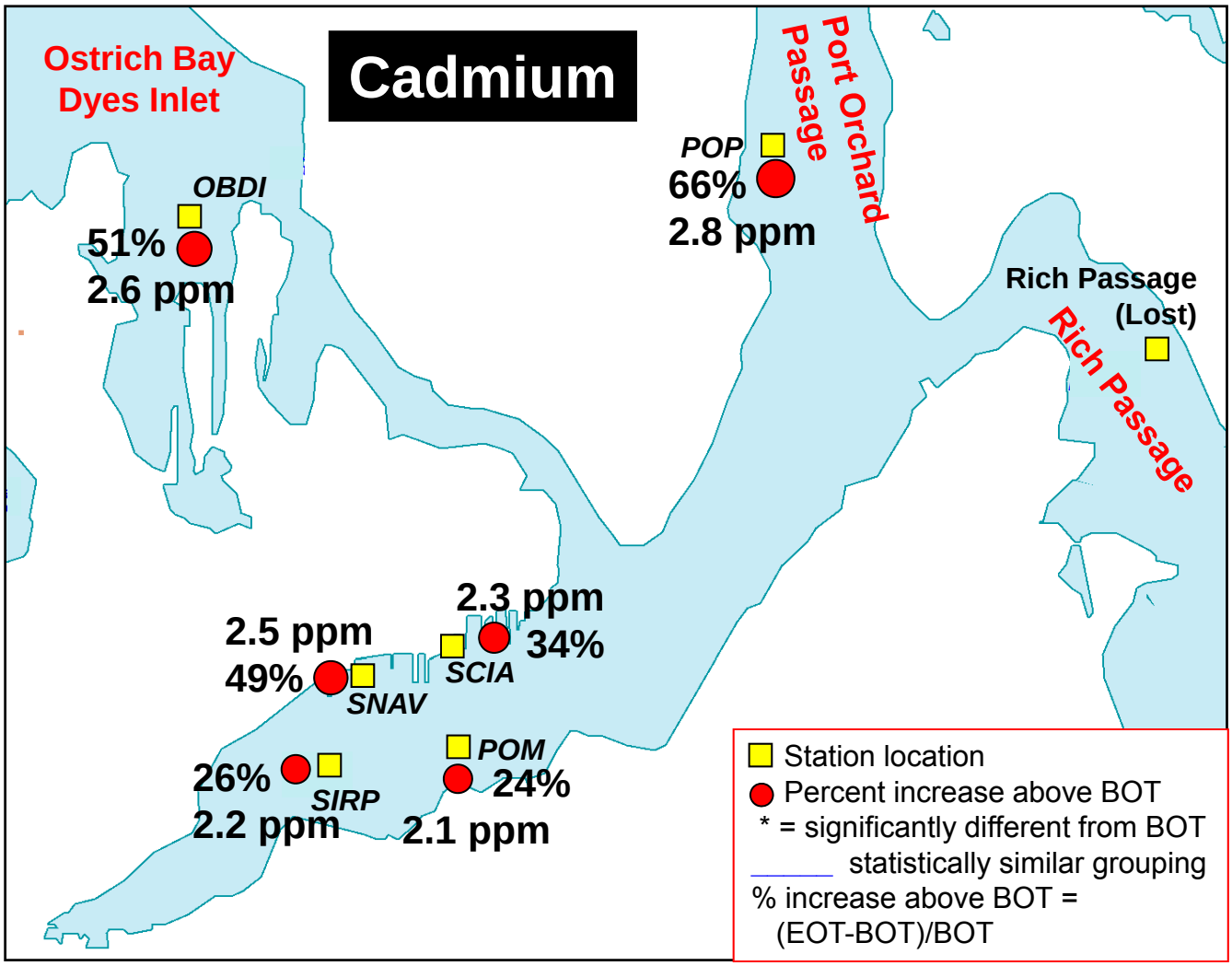



Figure 20B. Cadmium content calculated in mussel tissues at BOT and EOT. Also shown is cadmium content in indigenous mussels.




**BOT** POM SIRP SCIA* SNAV* OBDI* POP*

$\overline{X}$ BOT = 1.70 ppm dw (ug/g dw)
$\overline{X}$ EOT = 2.41 ppm dw
**Mean % Increase above BOT = 41.6%**

Critical Body Residue (CBR) = 3 ppm dw
Scope for Growth (Widdows & Johnson 1988)
**Many measurements near CBR**

Mussel Watch National Mean = 2.68 ppm dw

Figure 21. Cadmium in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

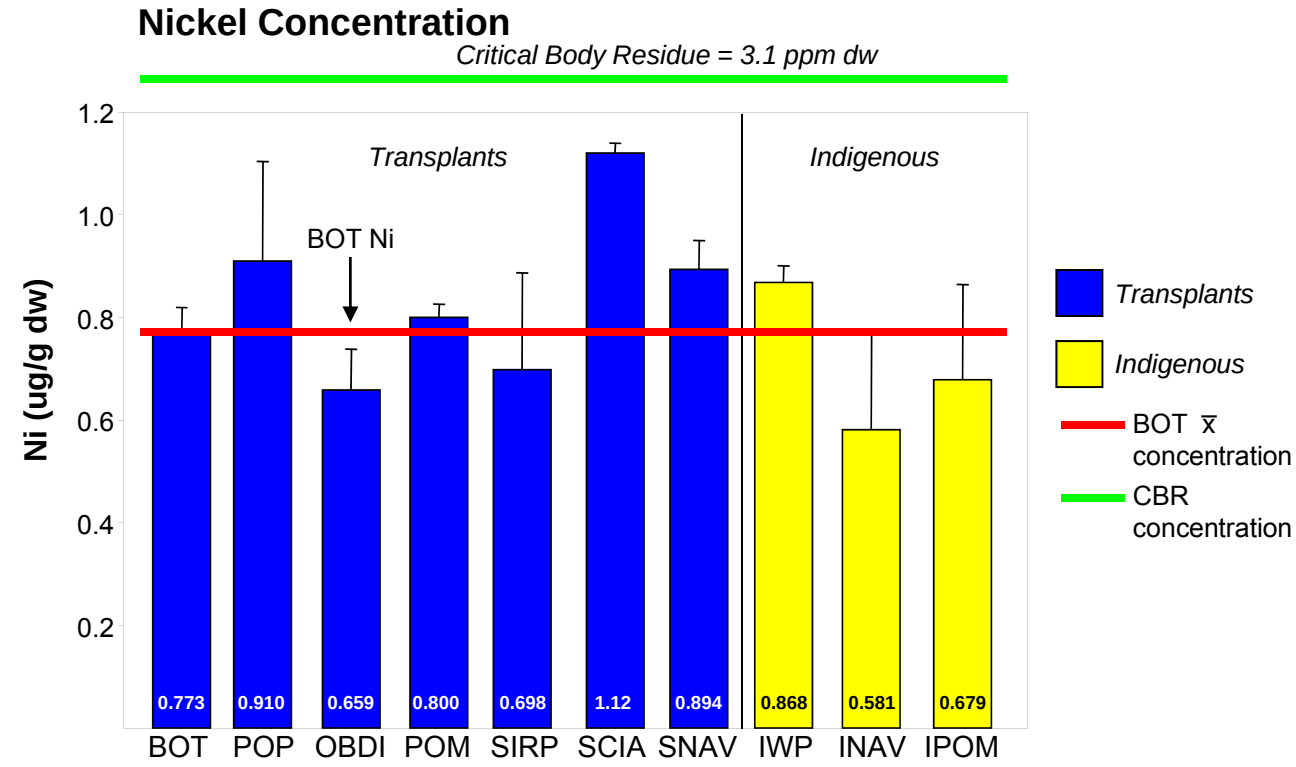



Figure 22A. Nickel concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is nickel in indigenous mussels.

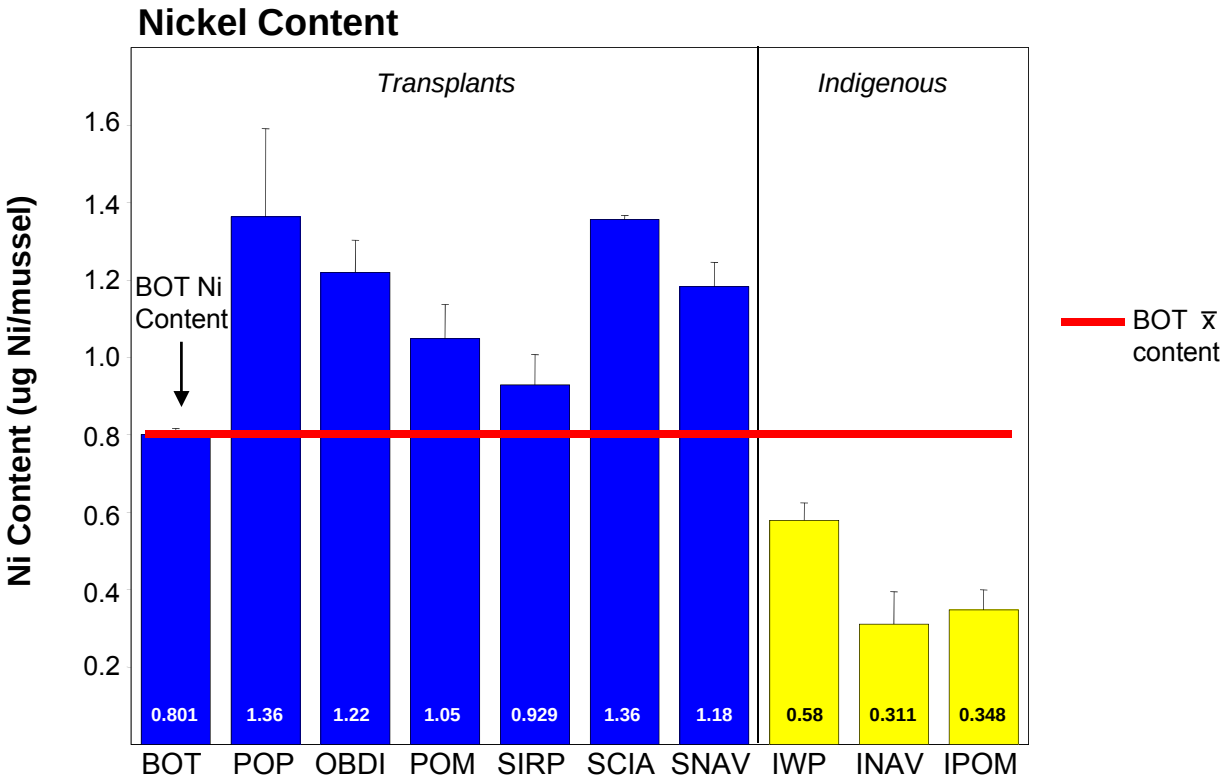
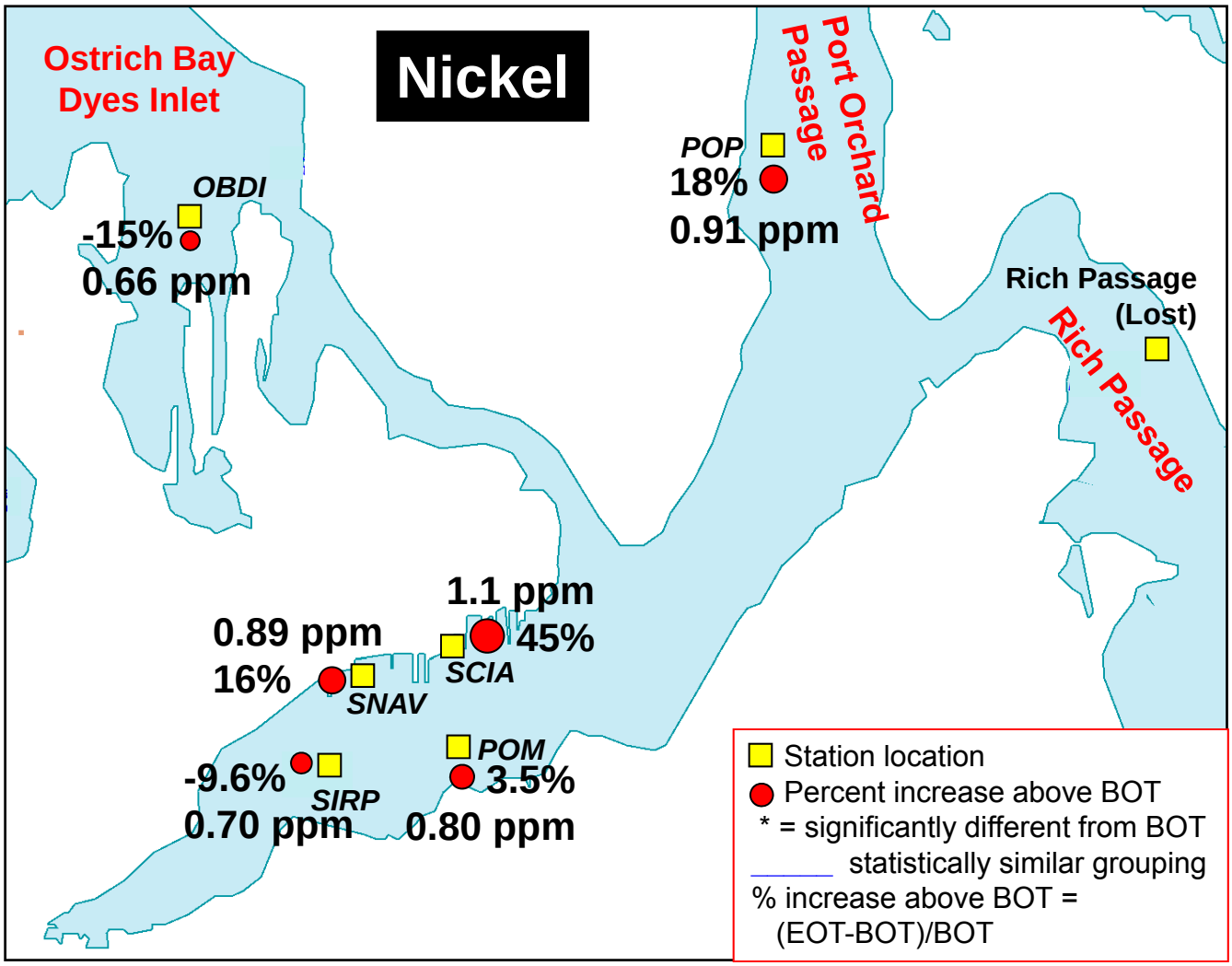



Figure 22b. Nickel content calculated in mussel tissues at BOT and EOT. Also shown is nickel content in indigenous mussels.




**BOT** **OBDI SIRP POM SNAV POP SCIA***

$\overline{X}$ BOT = 0.77 ppm dw (ug/g dw)
$\overline{X}$ EOT = 0.85 ppm dw
**Mean % Increase above BOT = 9.6%**

Critical Body Residue (CBR) = 7 ppm dw
Scope for Growth (Widdows et al. 1981)
**All measurements below CBR**

Mussel Watch National Mean = 3.1 ppm dw

Figure 23. Nickel in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

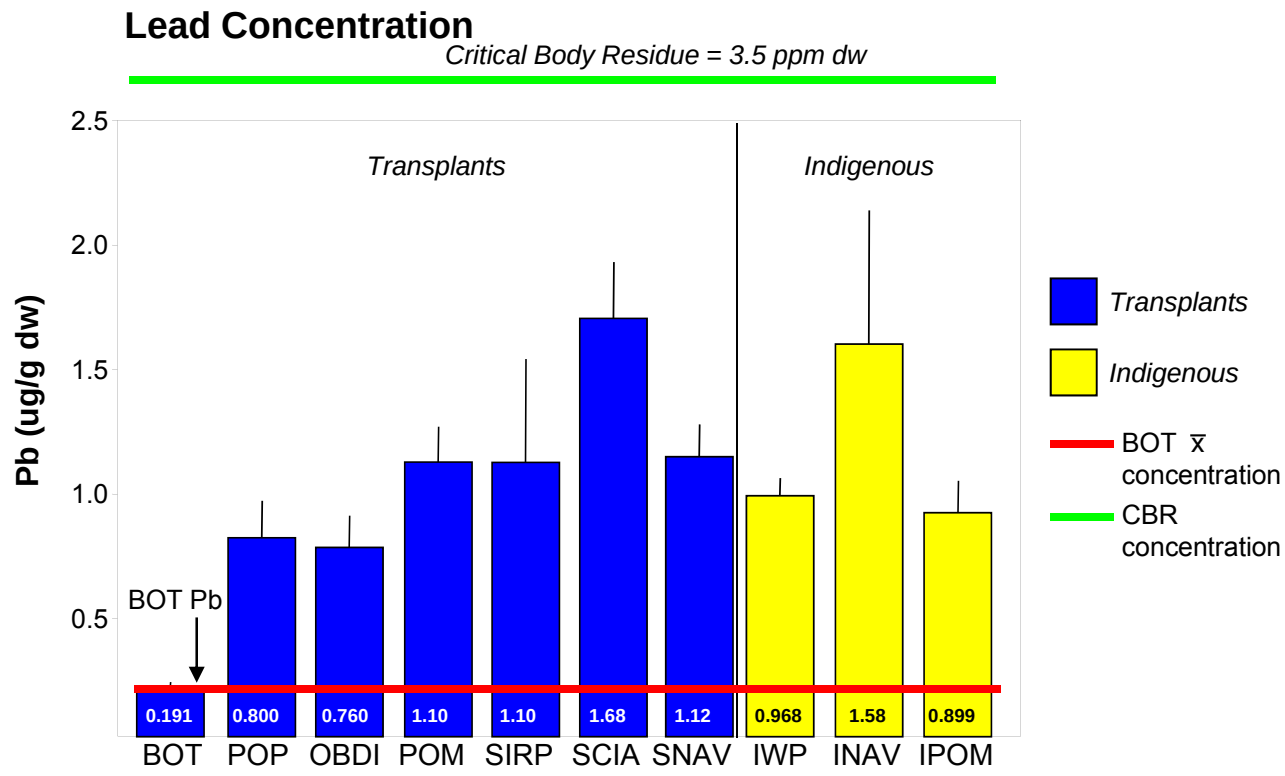



Figure 24A. Lead concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is lead in indigenous mussels.

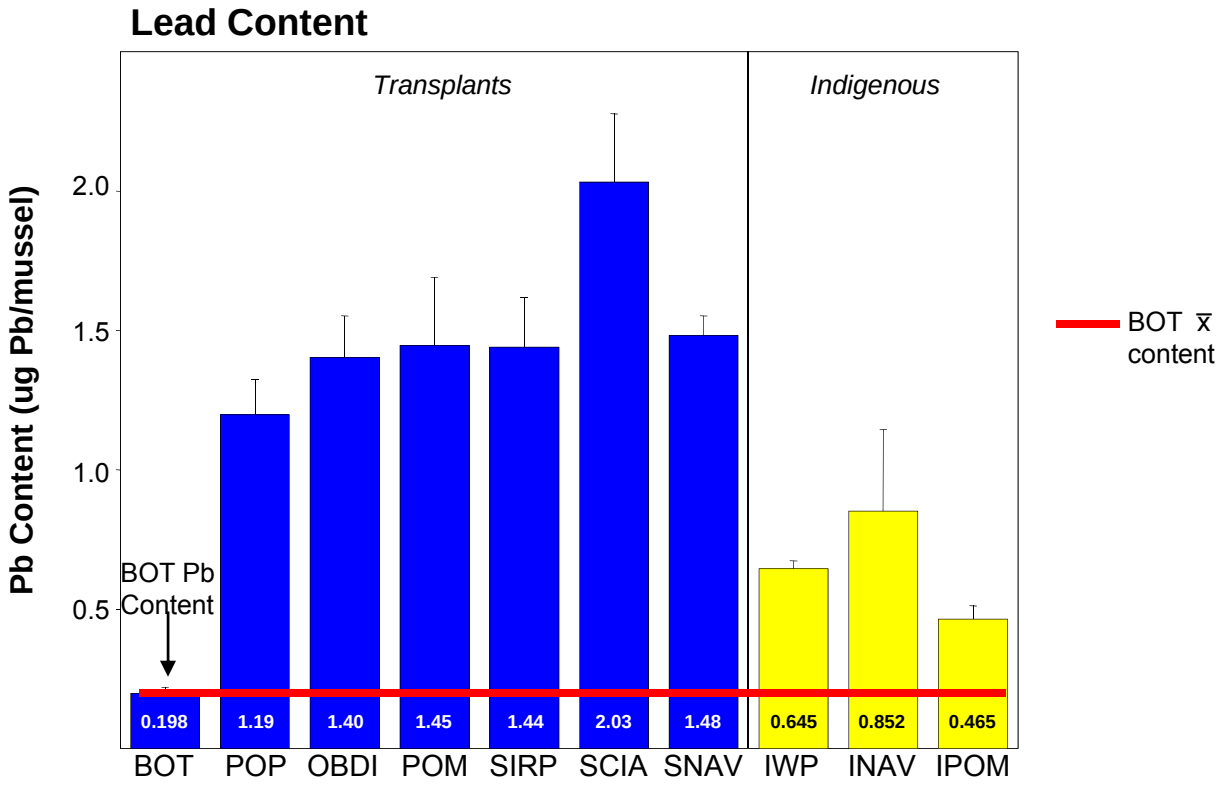
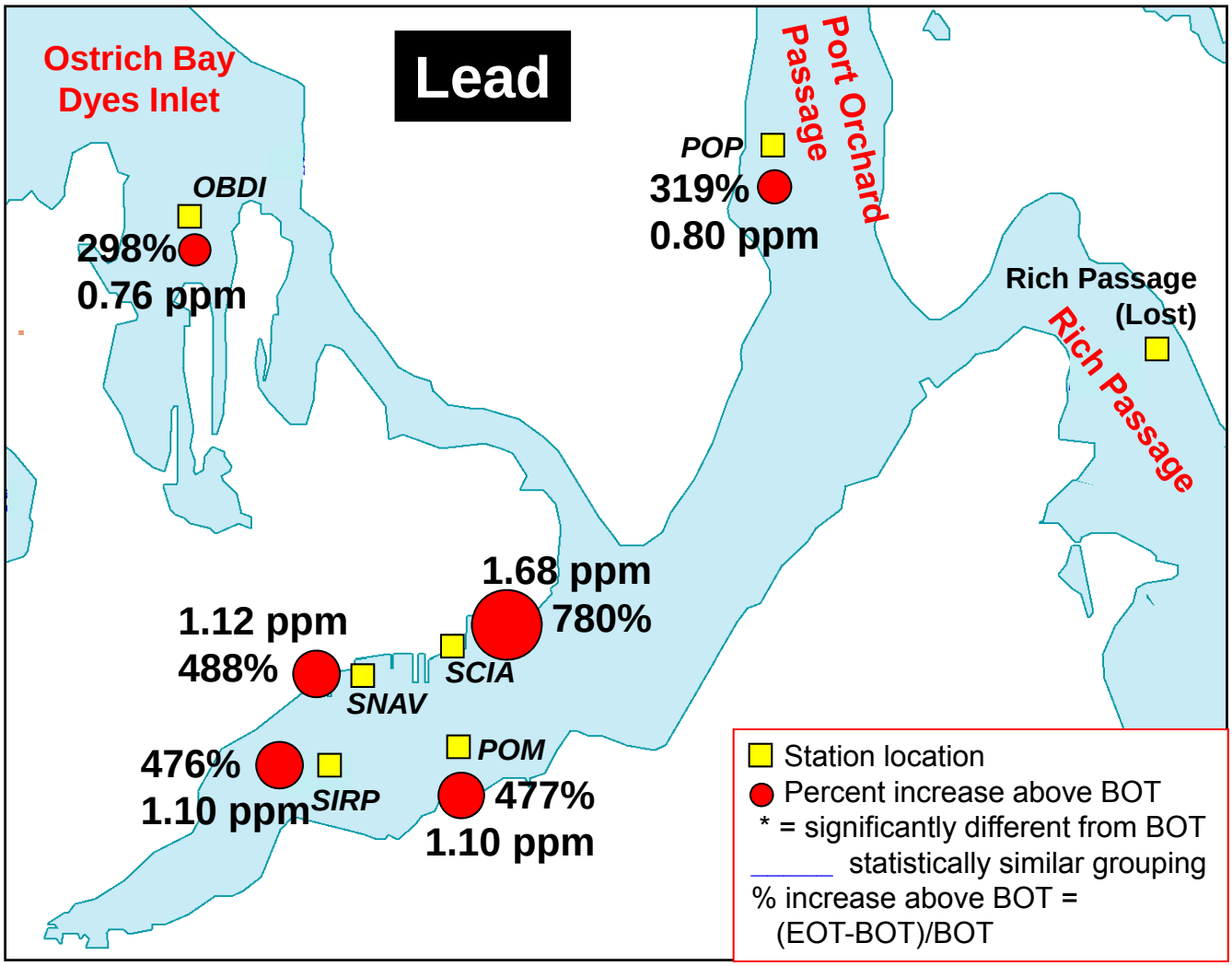



Figure 24B. Lead content calculated in mussel tissues at BOT and EOT. Also shown is lead content in indigenous mussels.




| BOT | OBDI * | POP * | SIRP * | POM * | SNAV * | SCIA * |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT = 0.19 ppm dw (ug/g dw)
$\overline{X}$ EOT = 1.09 ppm dw
**Mean % Increase above BOT = 473%**

Critical Body Residue (CBR) = 3.5 ppm dw
Scope for Growth (Widdows & Johnson 1988)
**All measurements below CBR**

Mussel Watch National Mean = 2.68 ppm dw

Figure 25. Lead in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

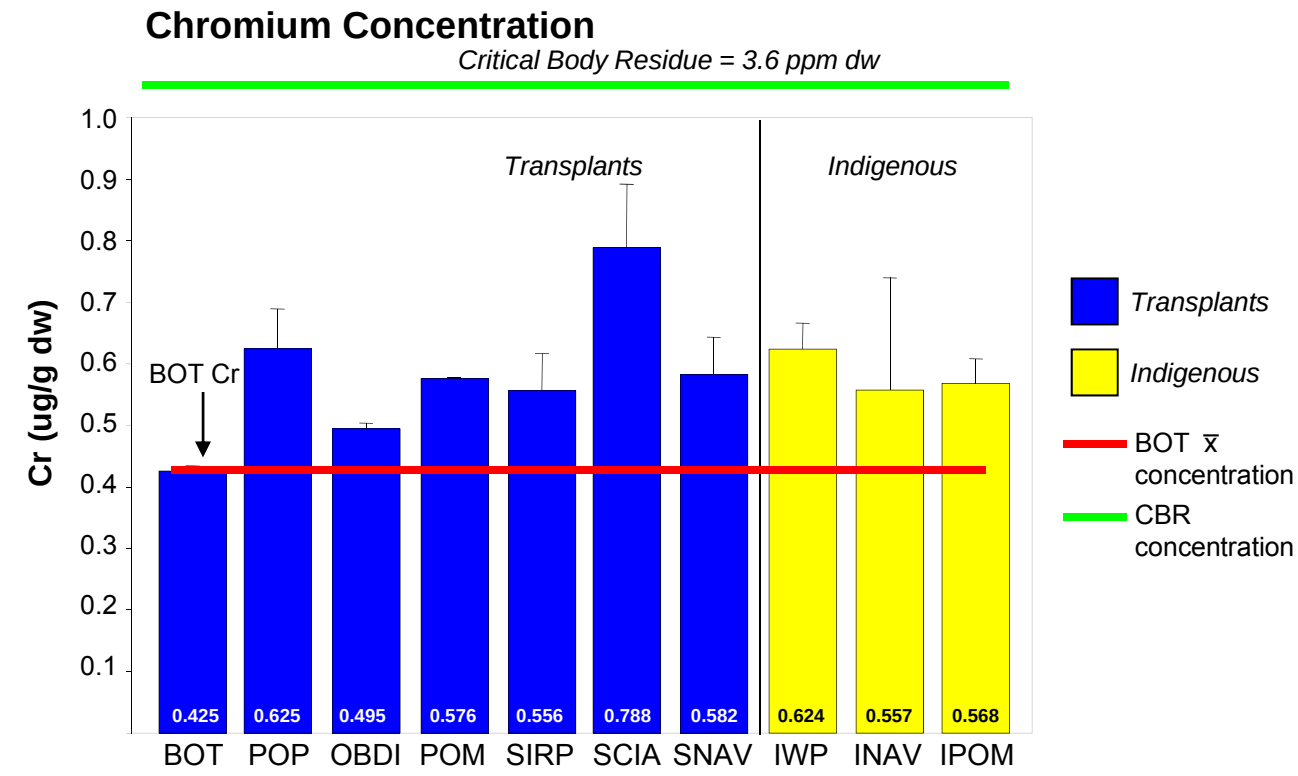



Figure 26A. Chromium concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is chromium in indigenous mussels.

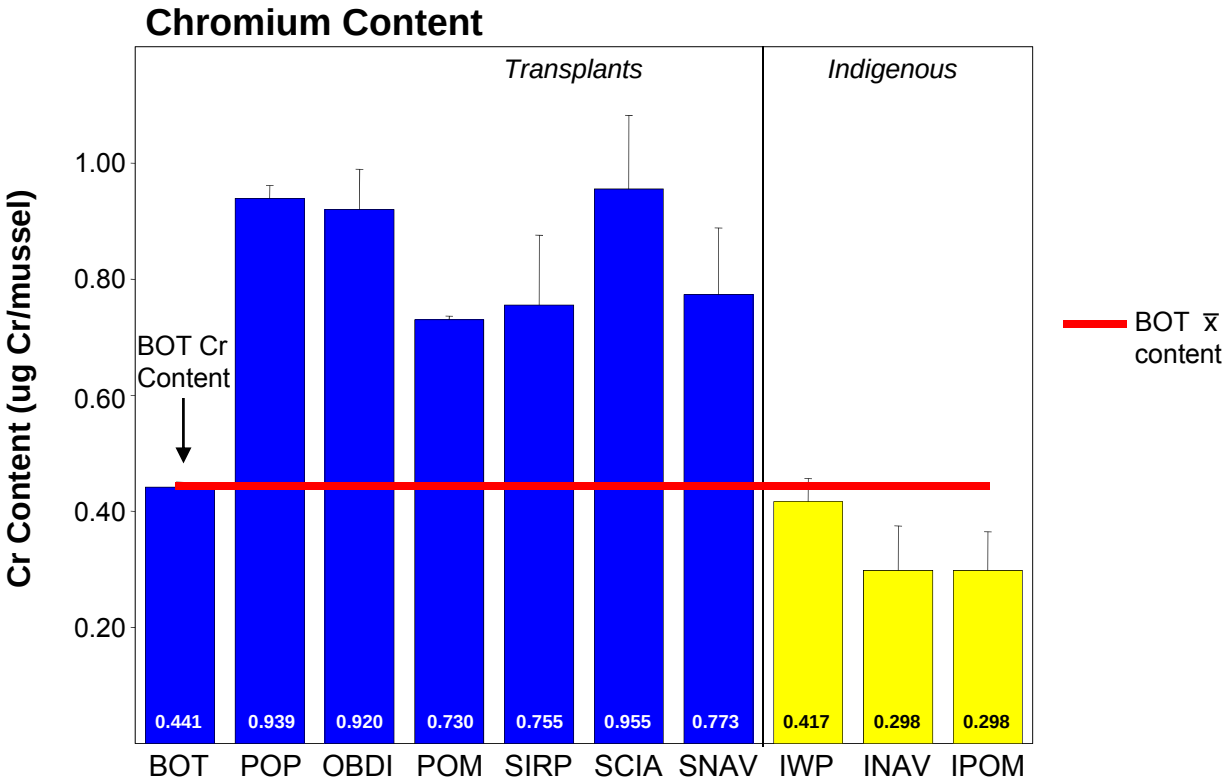
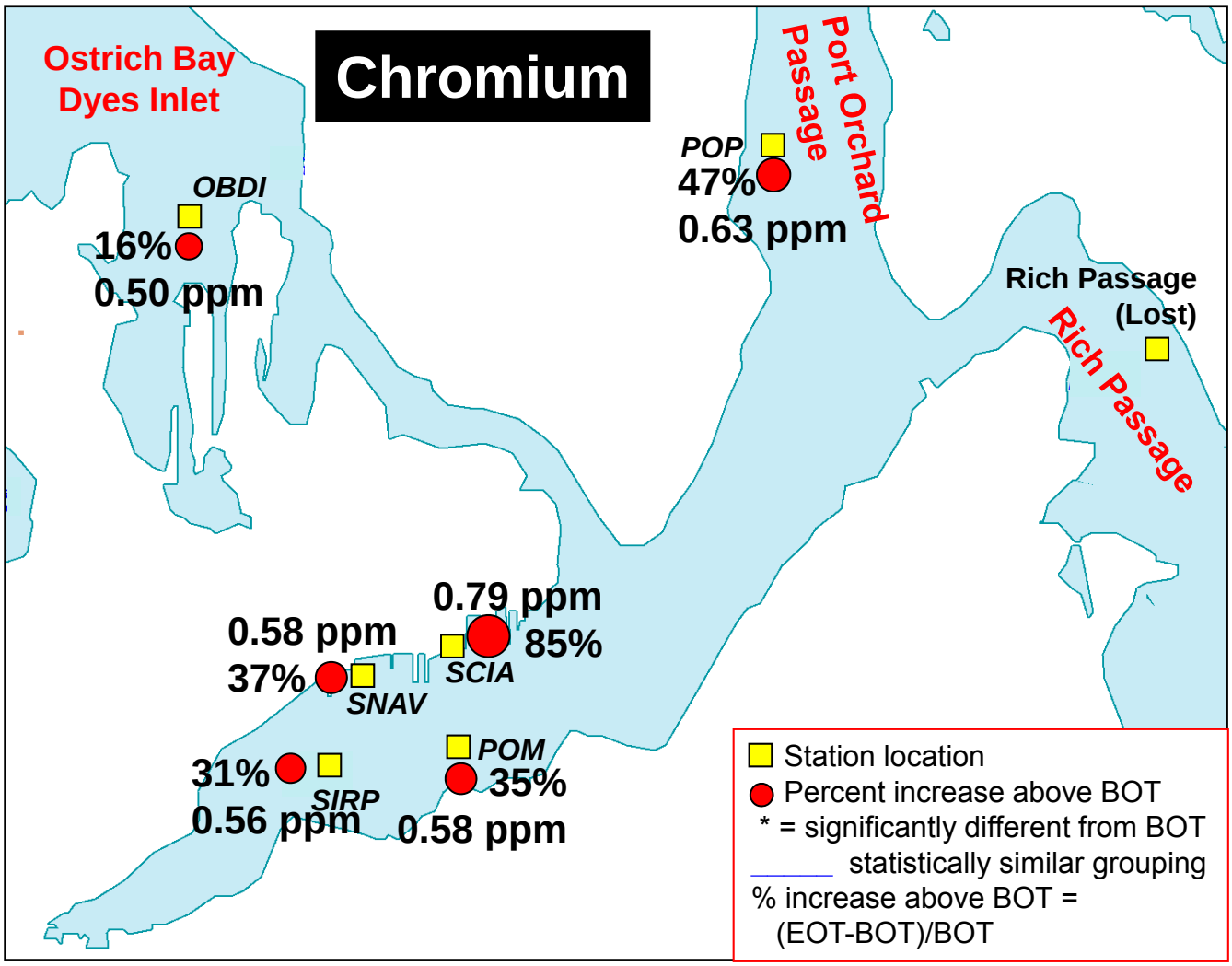



Figure 26B. Chromium content calculated in mussel tissues at BOT and EOT. Also shown is chromium content in indigenous mussels.




| BOT | OBDI | SIRP* | POM* | SNAV* | POP* | SCIA* |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT 0.43 ppm dw (ug/g dw)
$\overline{X}$ EOT = 0.60 ppm dw
**Mean % Increase above BOT = 41.9%**

Critical Body Residue (CBR) = 3.6 ppm dw
Scope for Growth (Martin et al. 1984)
**All measurements below CBR**

Mussel Watch National Mean = 3.72 ppm dw

Figure 27. Chromium in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

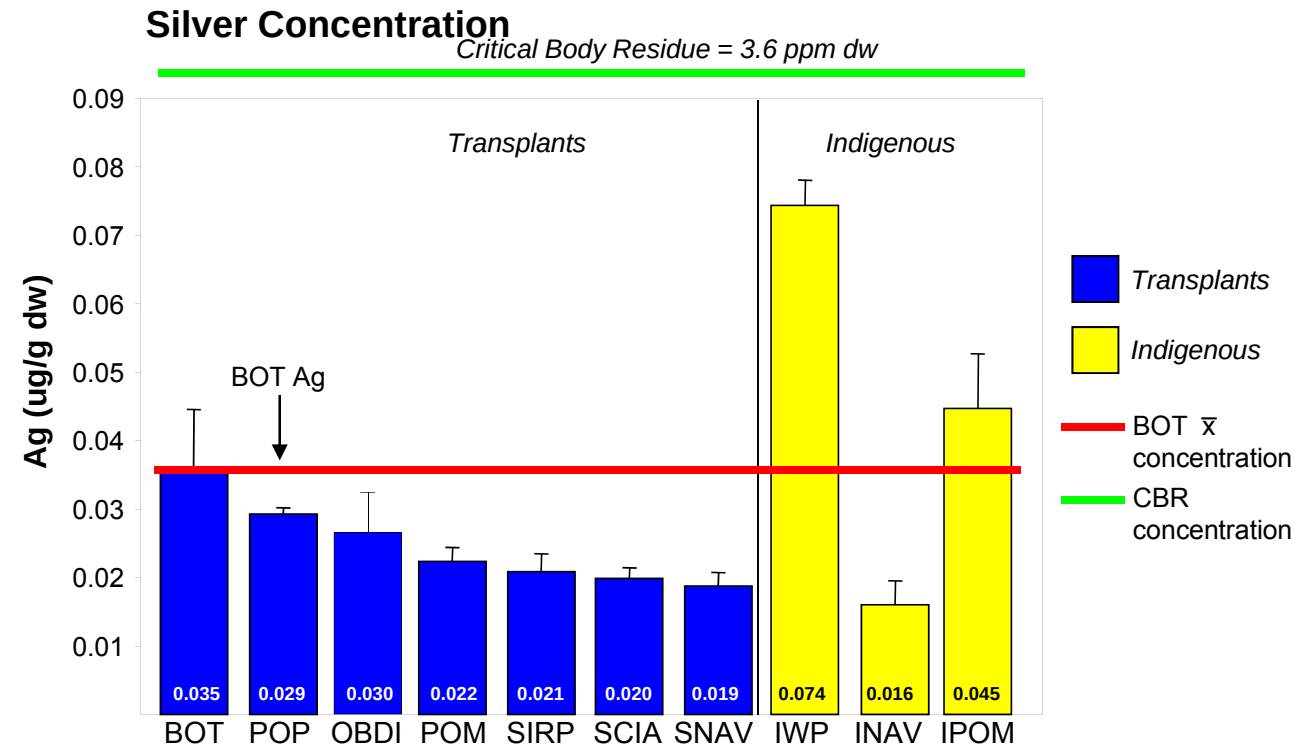



Figure 28A. Silver concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is silver in indigenous mussels.

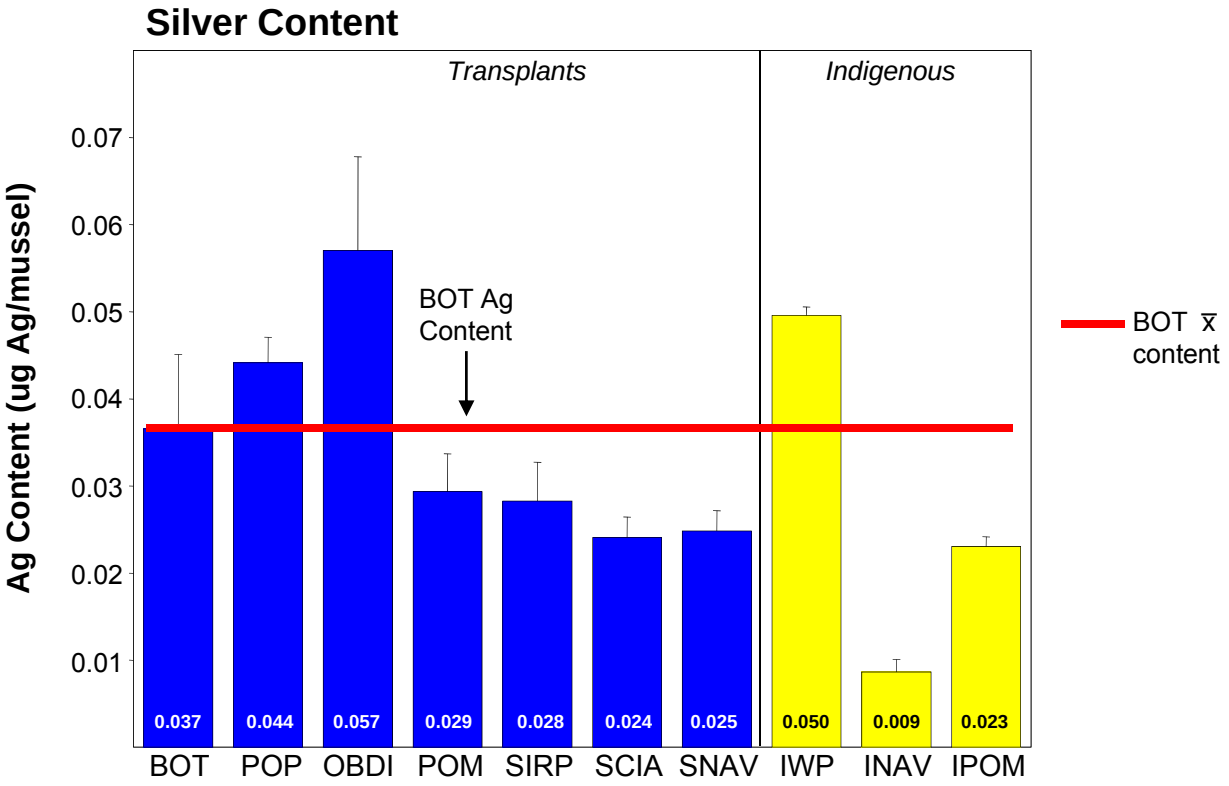
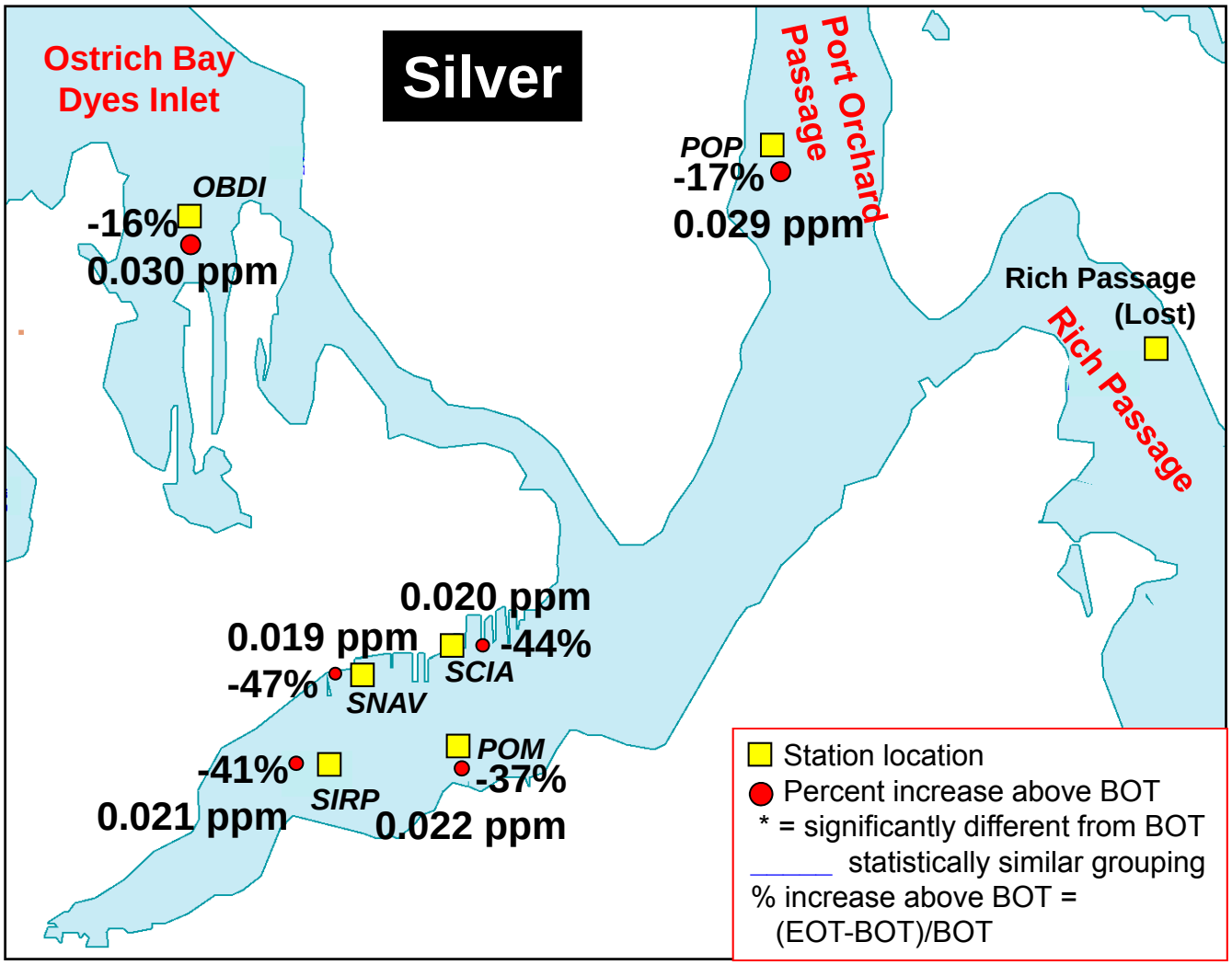



Figure 28B. Silver content calculated in mussel tissues at BOT and EOT. Also shown is silver content in indigenous mussels.




**BOT** **SNAV** **SCIA** **SIRP** **POM** **POP** **OBDI**

$\overline{X}$ BOT 0.035 ppm dw (ug/g dw)
$\overline{X}$ EOT = 0.02 ppm dw
**Mean % Increase above BOT = -33.6%**

Critical Body Residue (CBR) = 2.5 ppm dw
Scope for Growth (Martin et al. 1984)
**All measurements below CBR**

Mussel Watch National Mean = 0.284 ppm dw

Figure 29. Silver in mussel tissues: concentration (ppm), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

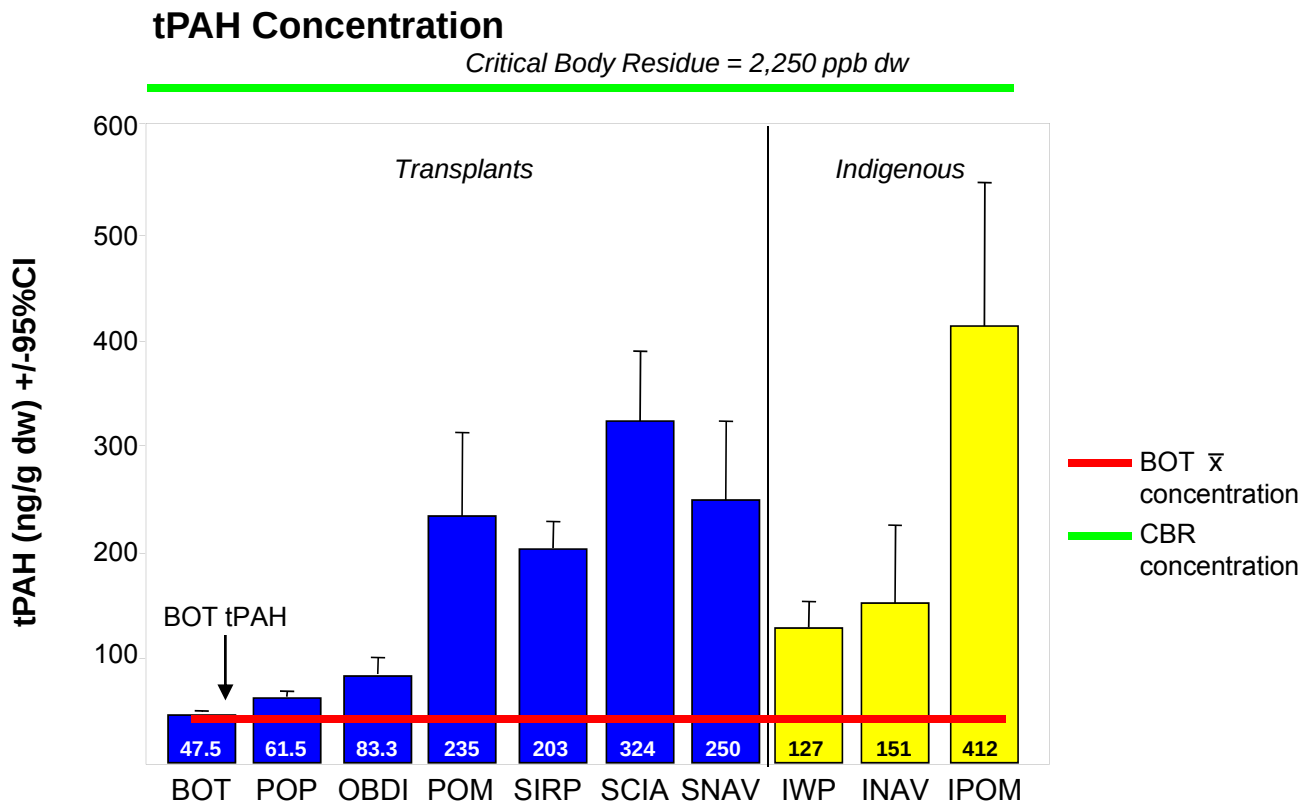



Figure 30A. tPAH concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is tPAH in indigenous mussels.

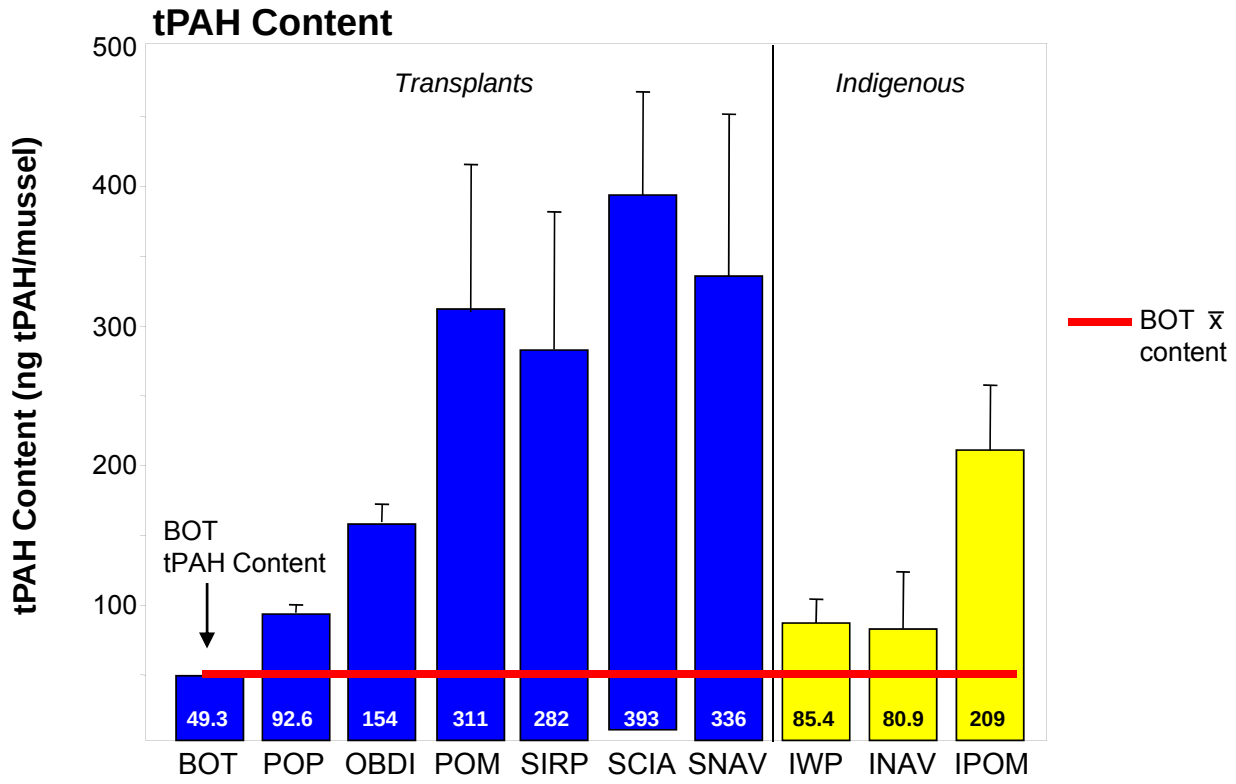
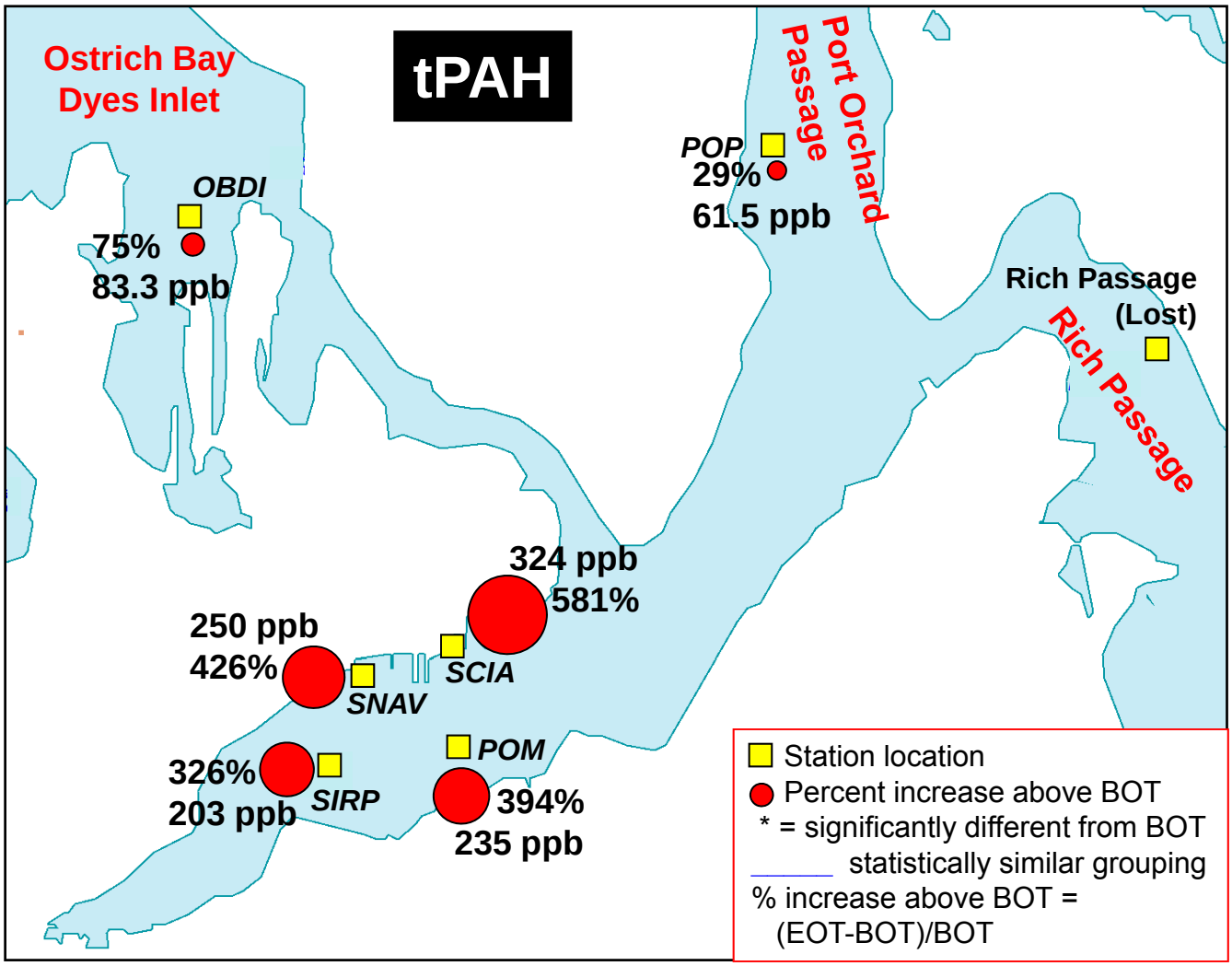



Figure 30B. tPAH content calculated in mussel tissues at BOT and EOT. Also shown is tPAH content in indigenous mussels.




| BOT | POP | OBDI | SIRP * | POM * | SNAV * | SCIA * |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT 47.5 ppb dw (ng/g dw)
$\overline{X}$ EOT = 193 ppb dw
**Mean % Increase above BOT = 305%**

Critical Body Residue (CBR) = 2,250 ppb dw
Scope for Growth (Widdows & Donkin 1992)
**All measurements below CBR**

Mussel Watch National Mean = 1498 ppb dw
National Median = 604 ppb

Figure 31. tPAH in mussel tissues: concentration (ppb), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Scope for Growth (SFG), and National Mussel Watch values.

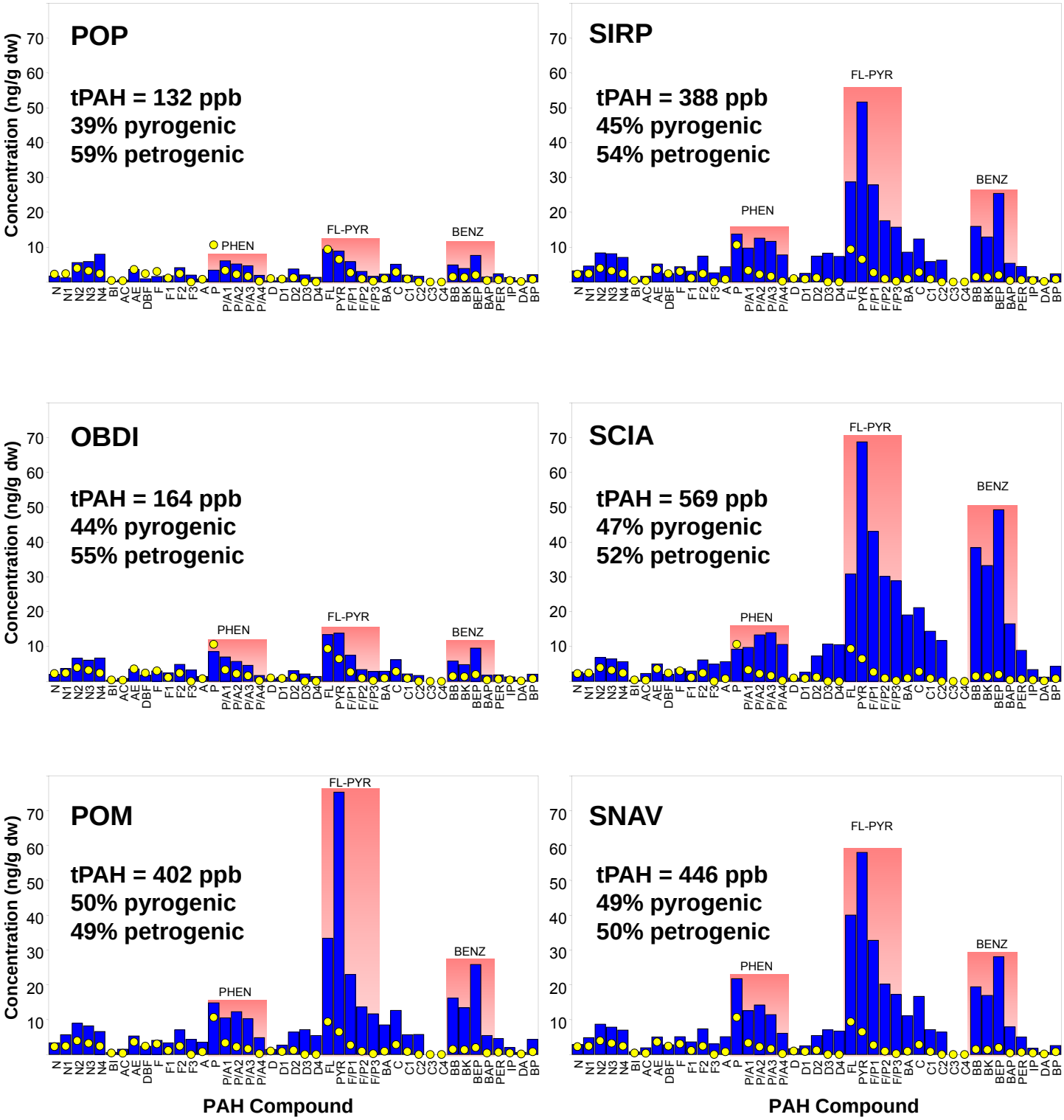



Figure 32A. Individual PAH compounds measured in transplanted mussel tissues at BOT (●) and EOT. Also shown is percentage of the pyrogenic and petrogenic compounds. Phenanthrene, fluroanthene-pyrene, and benzene homolog groupings indicated with red shading.

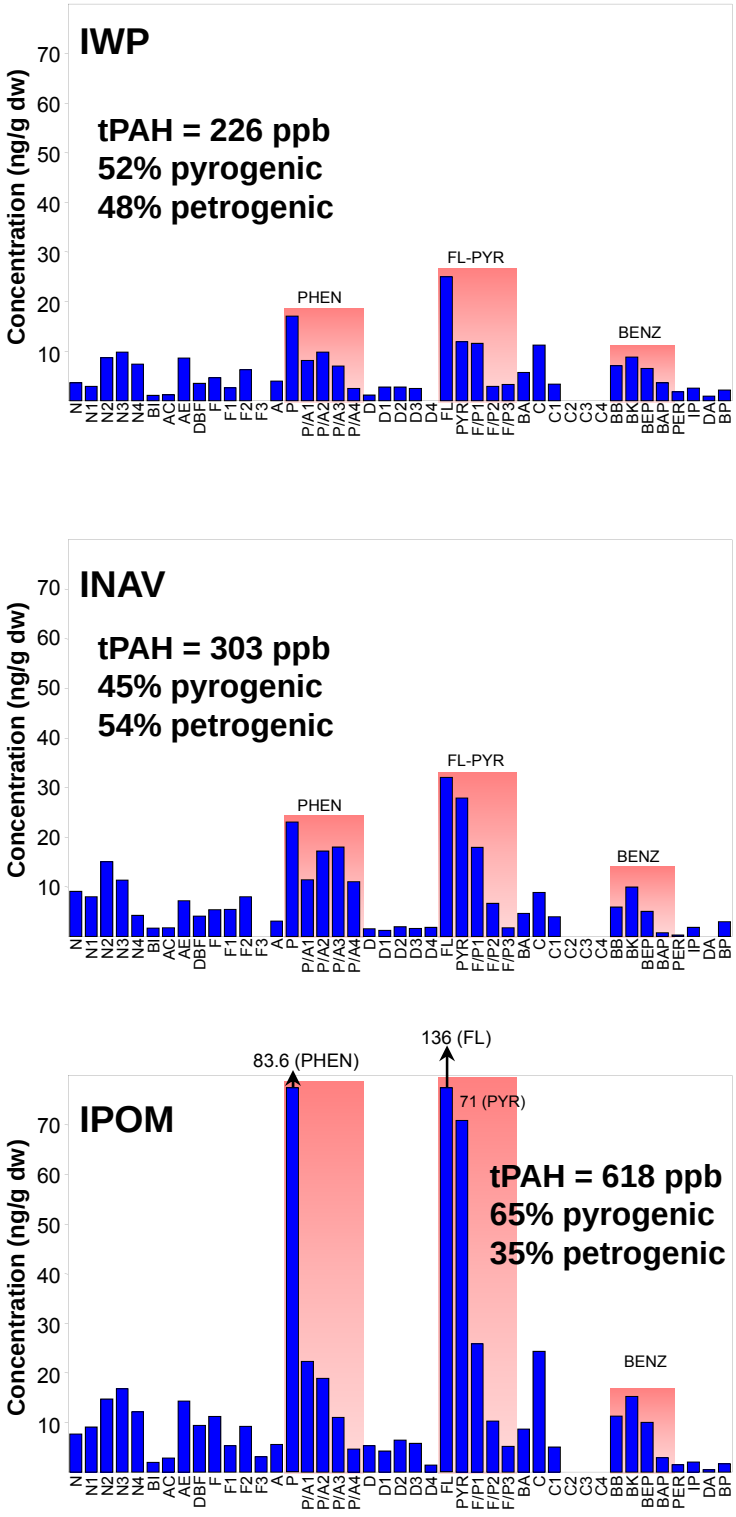



Figure 32B. Individual PAH compounds measured in indigenous mussel tissues at EOT. Also shown is percentage of the pyrogenic and petrogenic compounds. Phenanthrene, fluroanthene-pyrene, and benzene homolog groupings indicated with red shading.

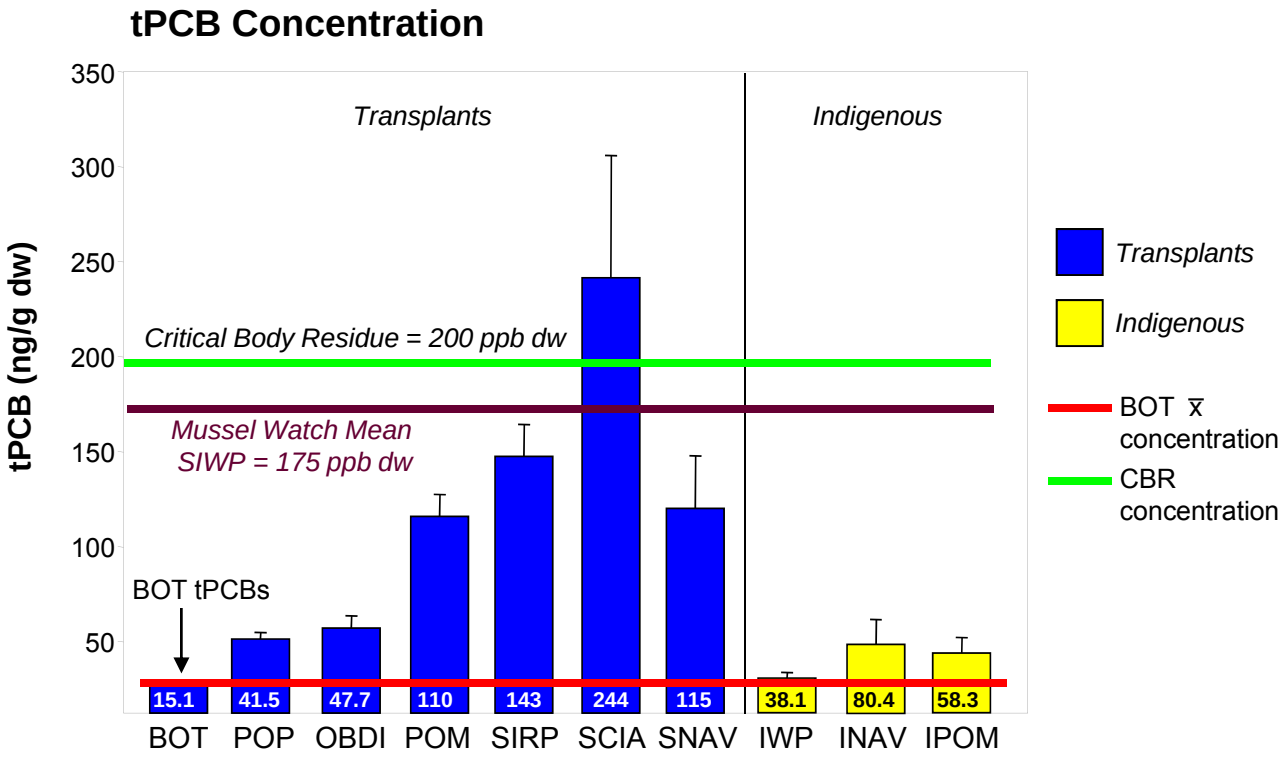



Figure 33A. tPCB concentration measured in mussel tissues at BOT and EOT and estimated Critical Body Residue. Also shown is tPCB in indigenous mussels. (tPCB = 2*Σcongeners)

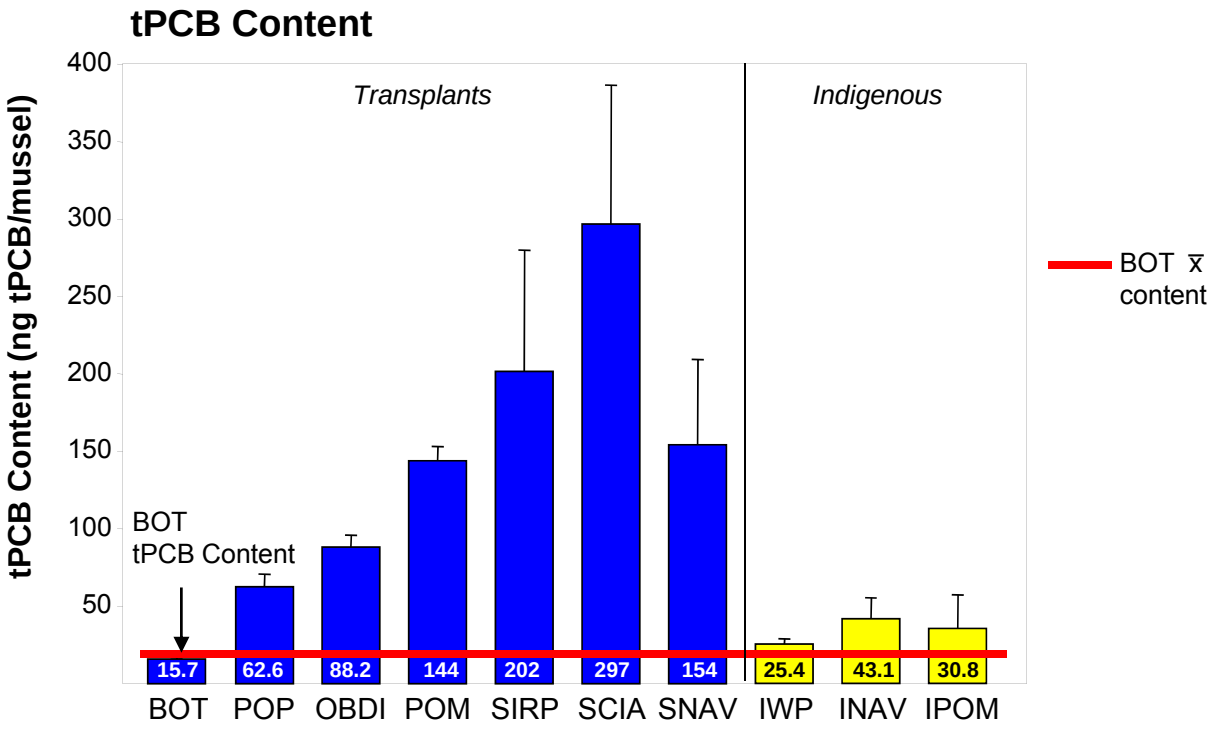
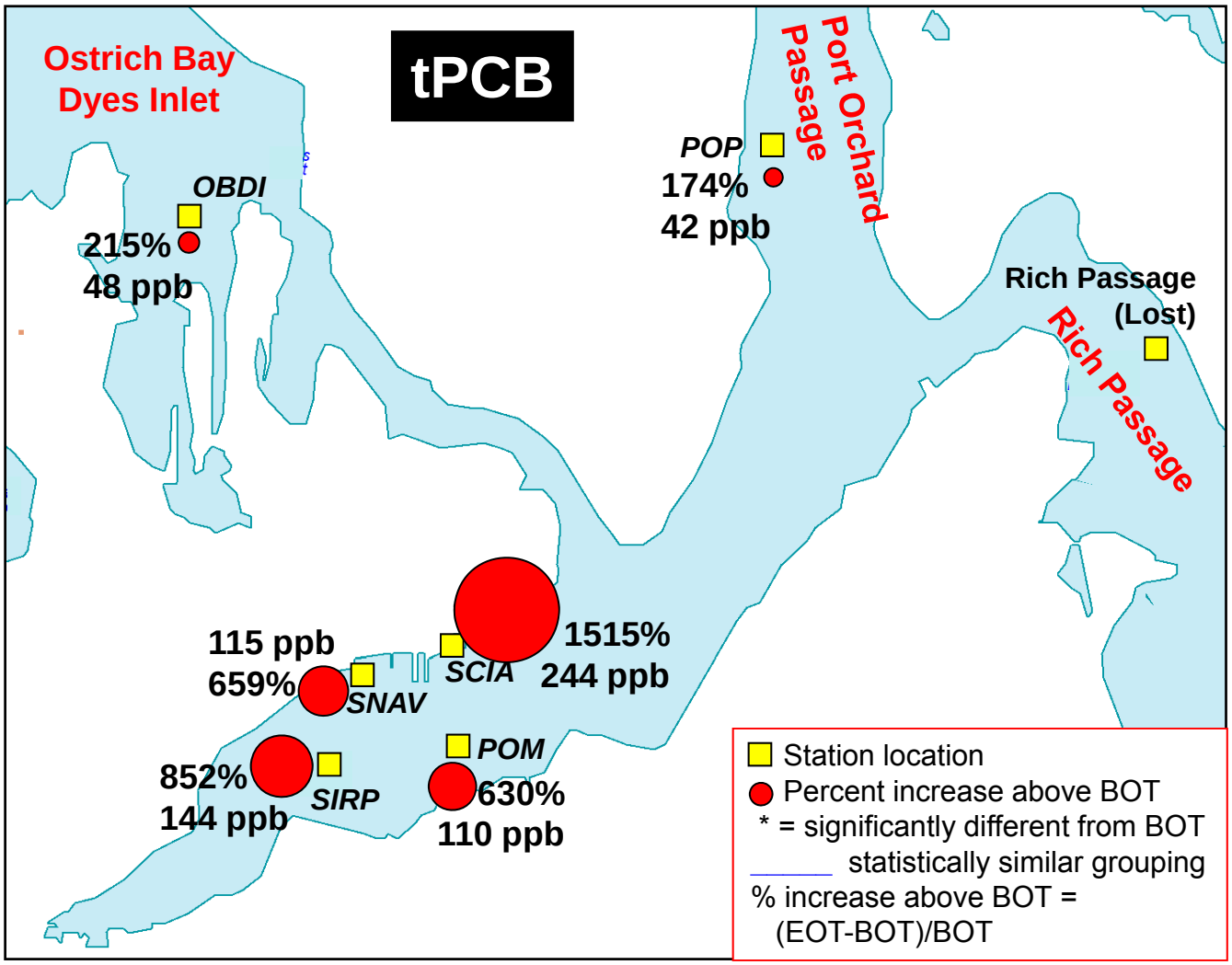



Figure 33B. tPCB content calculated in mussel tissues at BOT and EOT. Also shown is tPCB content in indigenous mussels.




| BOT | POP | OBDI | POM * | NAV * | SIRP * | SCIA * |
|---|---|---|---|---|---|---|

$\overline{X}$ BOT 15 ppb dw (ng/g dw)
$\overline{X}$ EOT = 117 ppb dw
**Mean % Increase above BOT = 674%**

Critical Body Residue (CBR) = 200 ppb dw
Mussel Growth (Krishnkumar et al 1994)
**All measurements below CBR**

Mussel Watch National Mean = 255 ppb dw
National Median = 96 ppb

Figure 34. tPCB in mussel tissues: concentration (ppb), percent change compared to BOT, statistically significant groupings, and comparison to CBR based on Mussel Growth, and National Mussel Watch values.

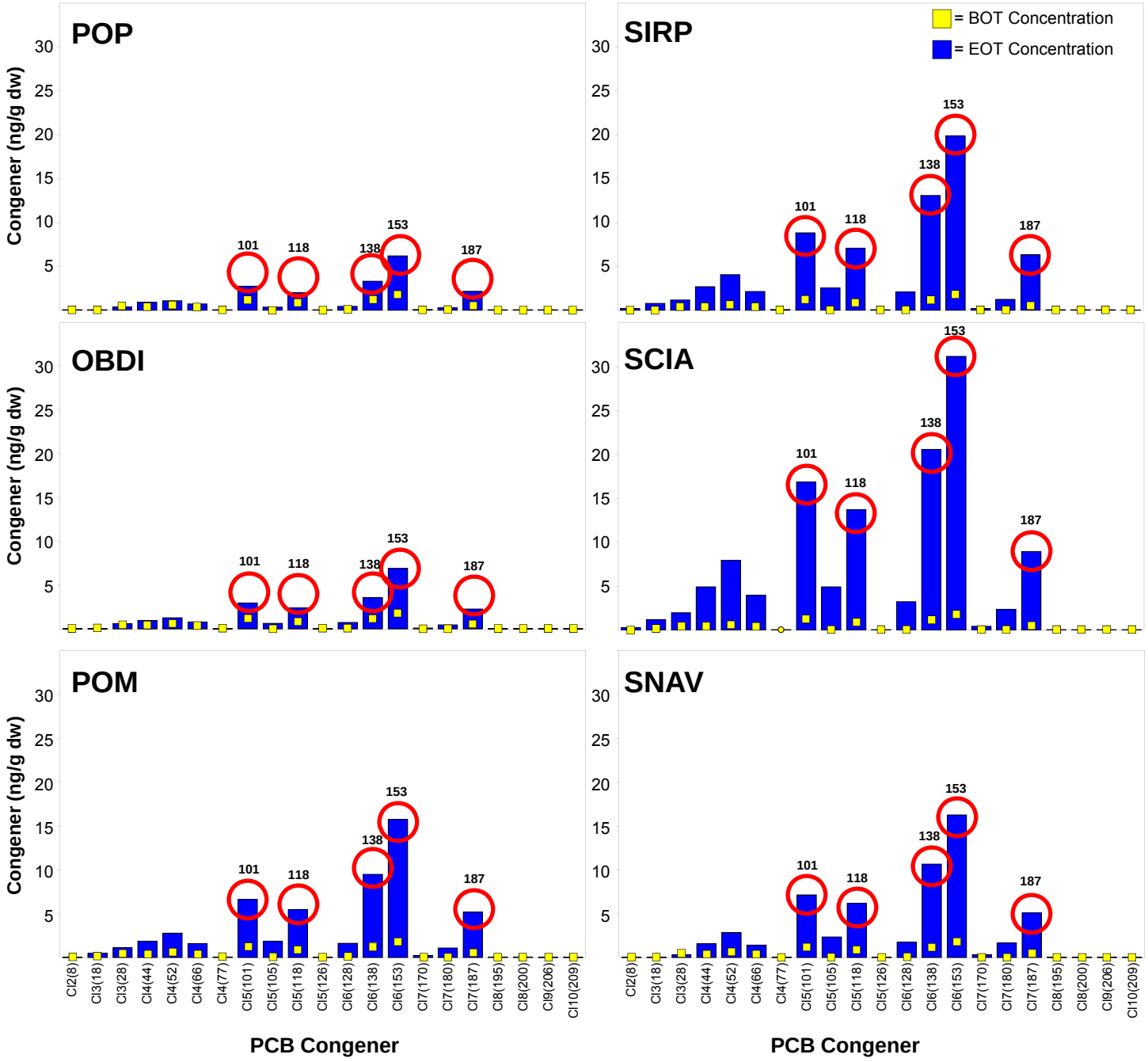



Figure 35A. Individual PCB congeners measured in mussel tissues at BOT and EOT. ○ used to highlight PCB congeners 101, 118, 138, 153, and 187. Three congeners were consistently the highest among the 21 measured in tissues from all deployed mussel: 101, 138, and153. PCB-118 and PCB-187 were also accumulated by all mussels.

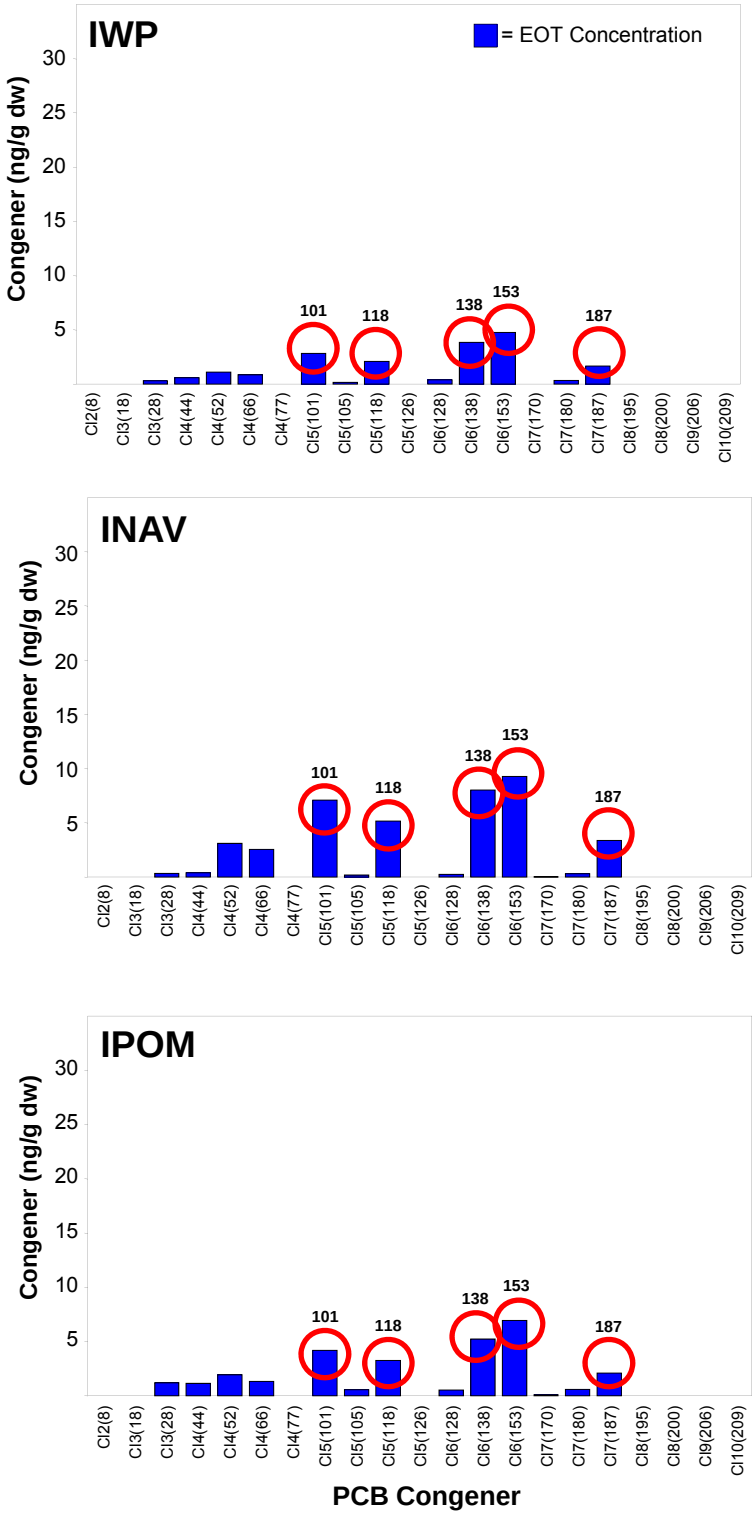
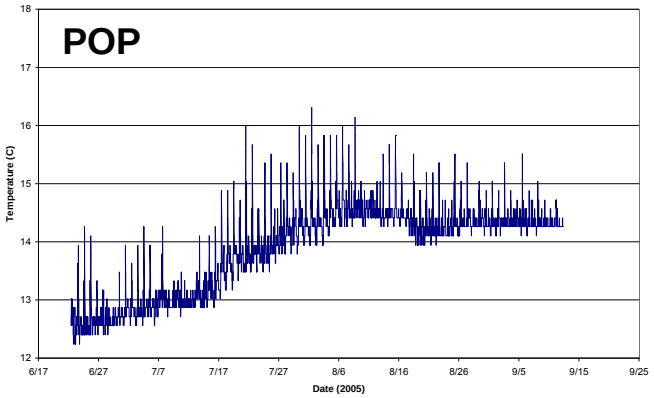
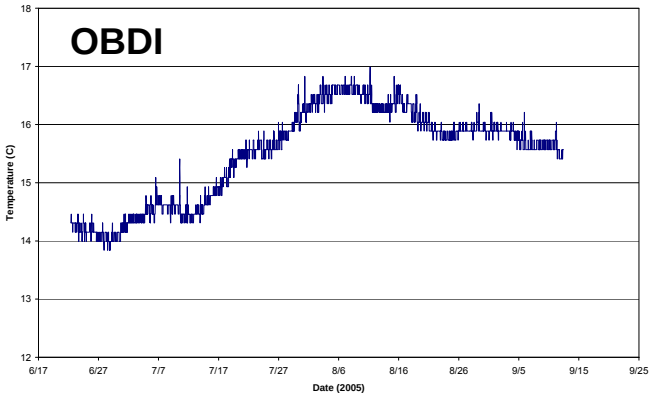
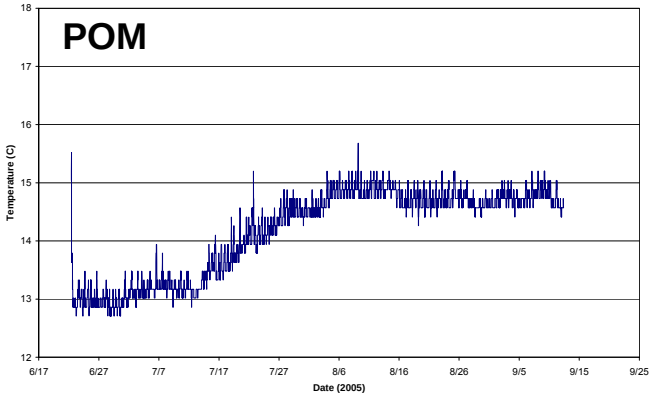
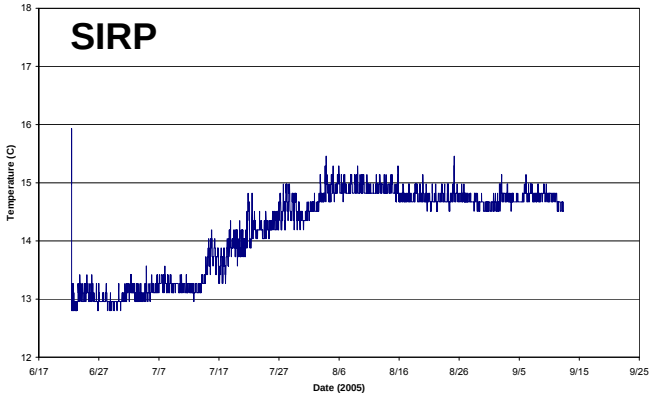



Figure 35B. Individual PCB congeners measured in indigenous mussel tissues at EOT. ◯ used to highlight PCB congeners 101, 118, 138, 153, and 187. Three congeners were consistently the highest among the 21 measured in tissues from all deployed mussel: 101, 138, and153. PCB-118 and PCB-187 were also accumulated by all mussels.



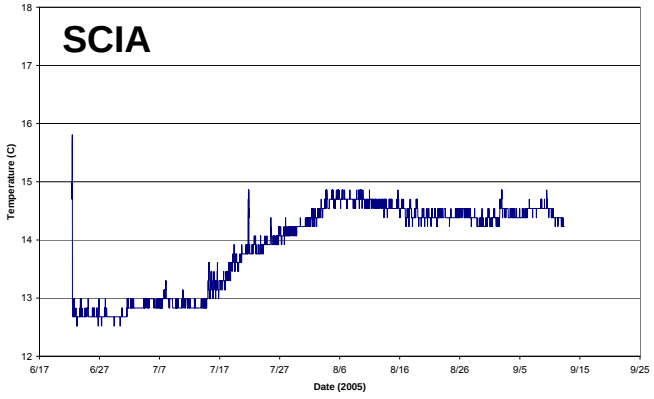




Figure 36. Individual seawater temperature (°C) profiles during mussel deployment.

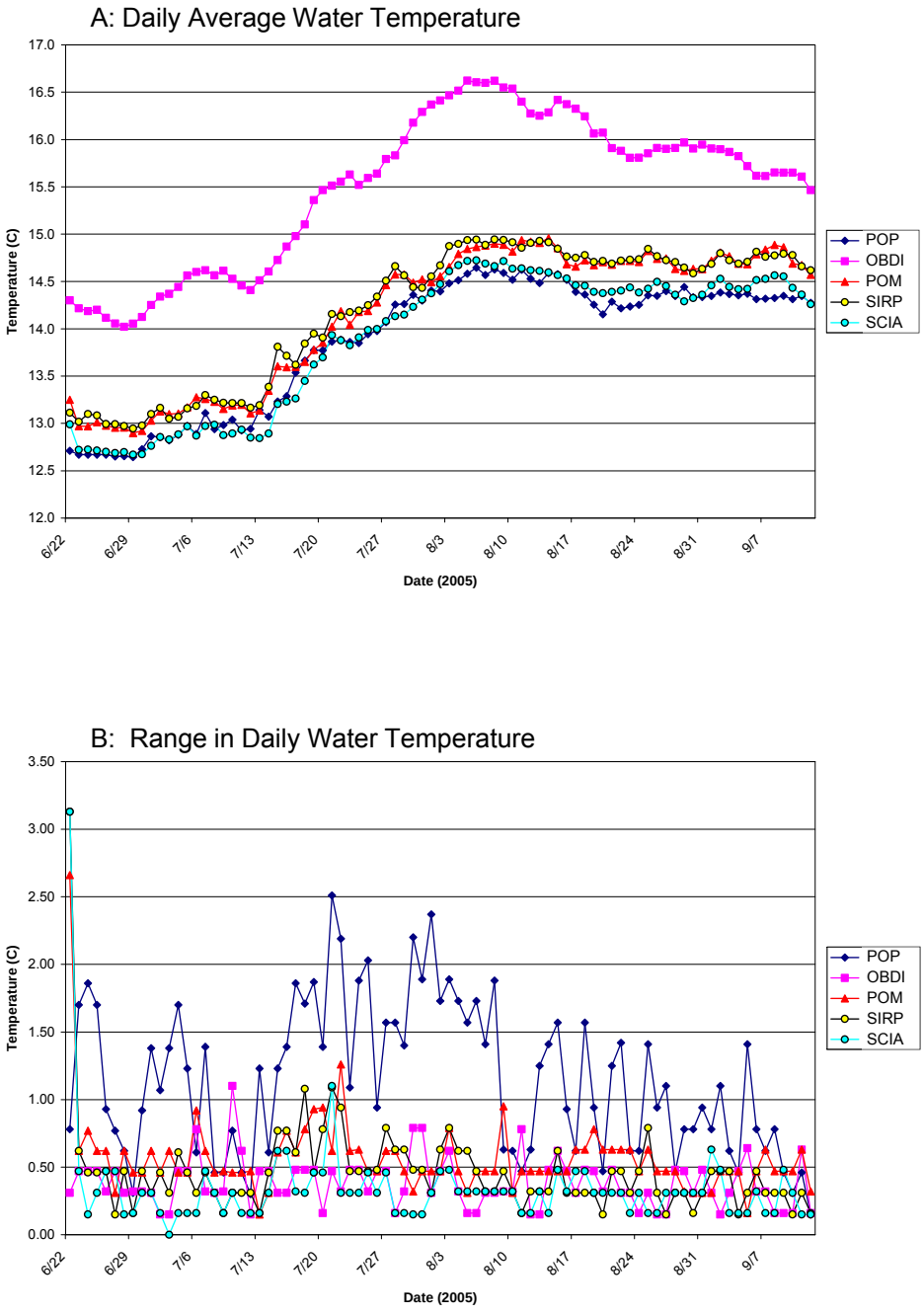



Figure 37. A. Daily average water temperatures (qC) at each deployment station. B. Range in daily water temperature (qC) at each deployment station.

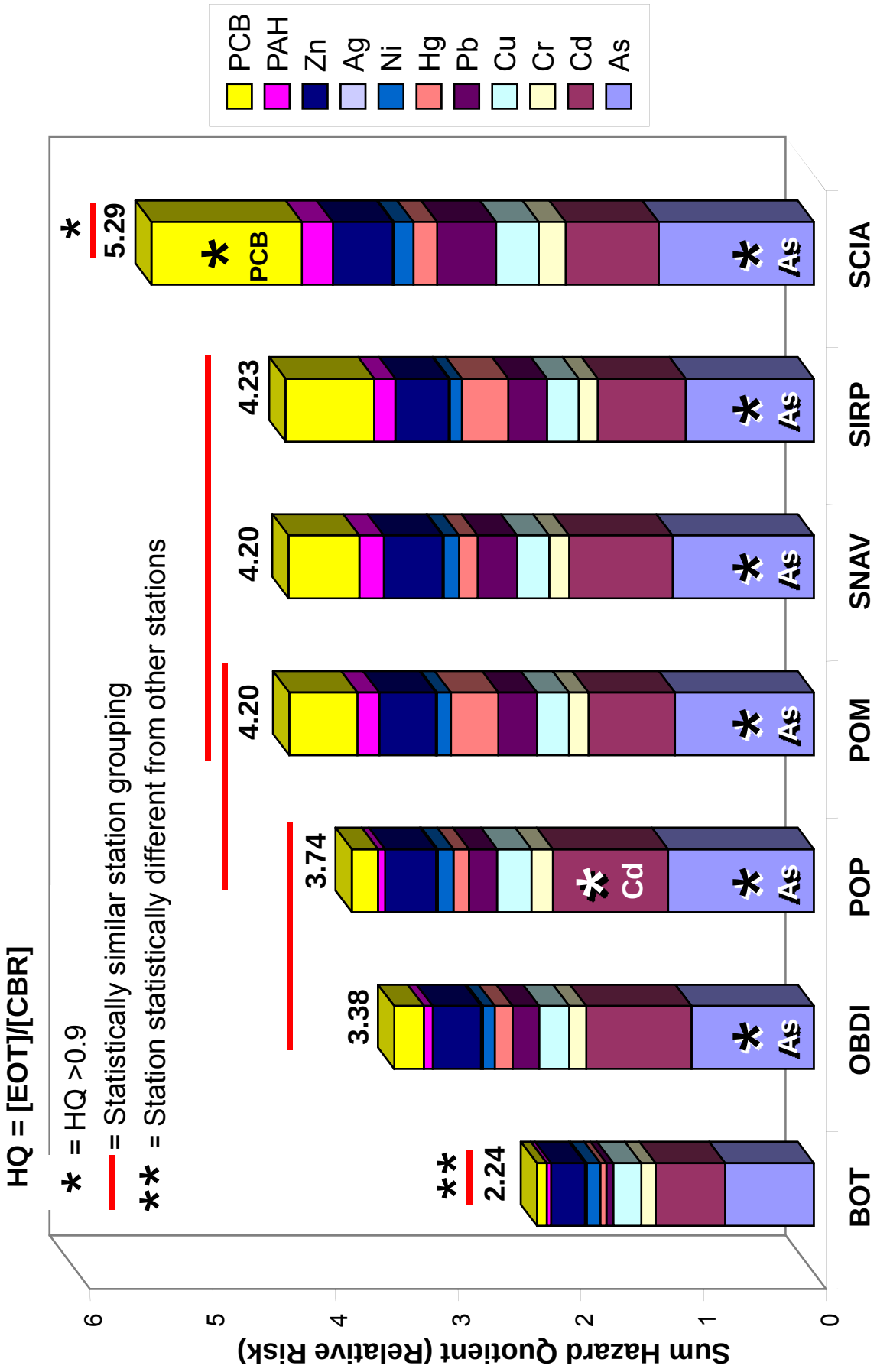



Figure 38. Estimated individual hazard quotients for each chemical of concern, and the estimated total risk determined by summing the individual HQs for each chemical. Sum of hazard quotients shown above the stack of HQs for each station.

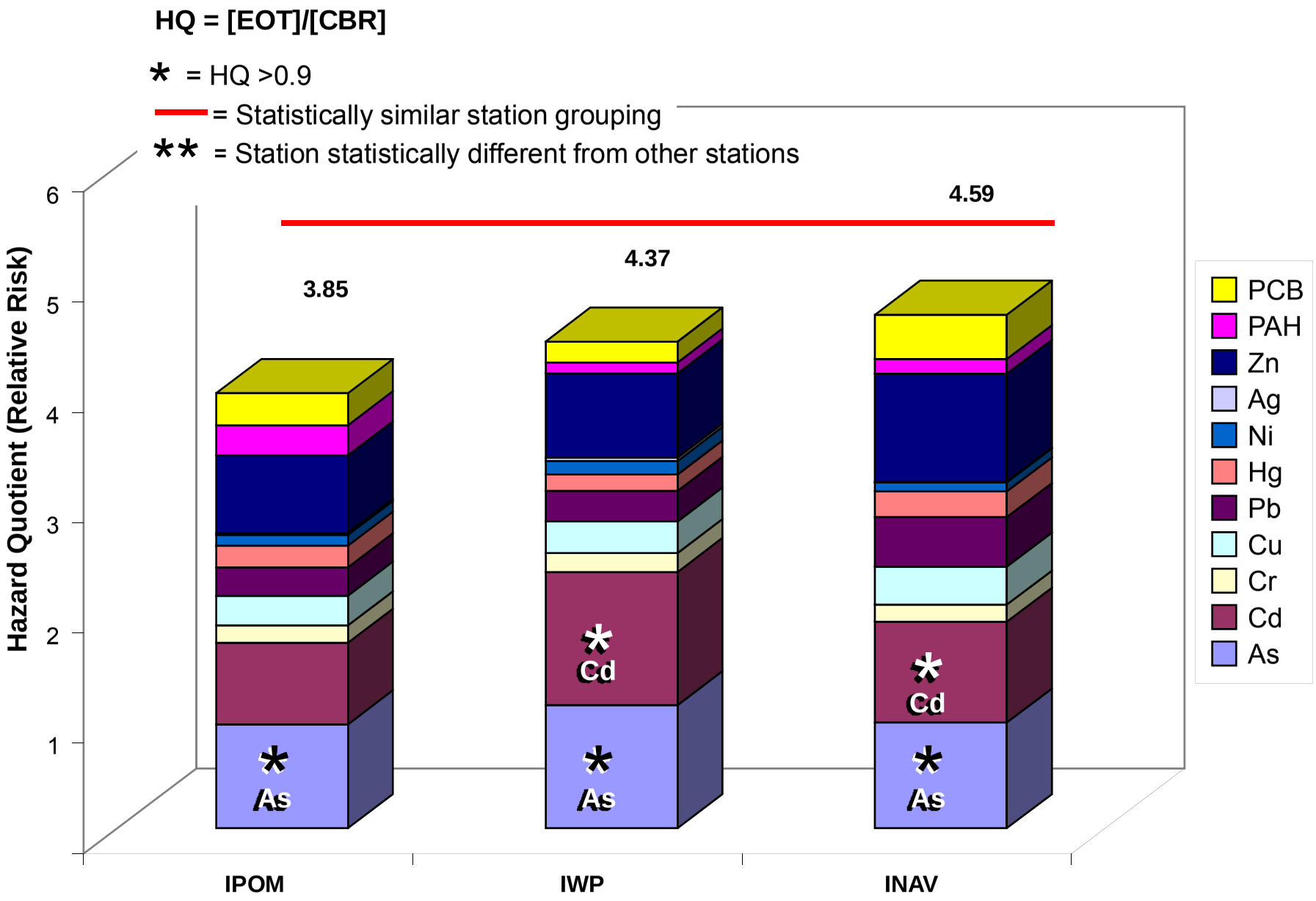



Figure 39. Estimated hazard quotients for each chemical of concern in indigenous (wild, native, resident) mussels, and the estimated total risk determined by summing the individual HQs for each chemical. Sum of hazard quotients shown above the stack of HQs for each station.

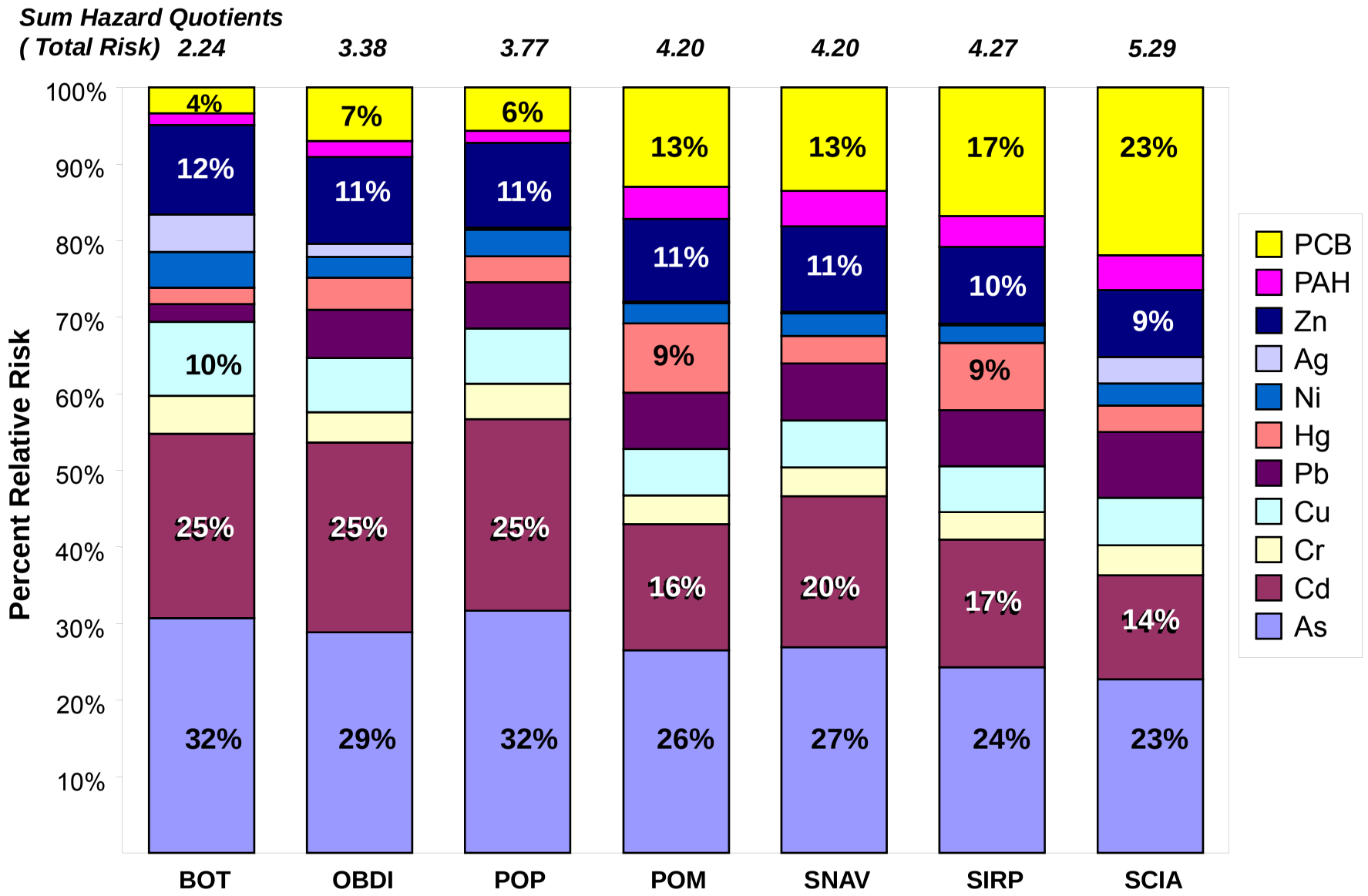



Figure 40. The contribution of risk by chemical, on a percent basis, at each station. Stations ordered by increasing incremental risk.

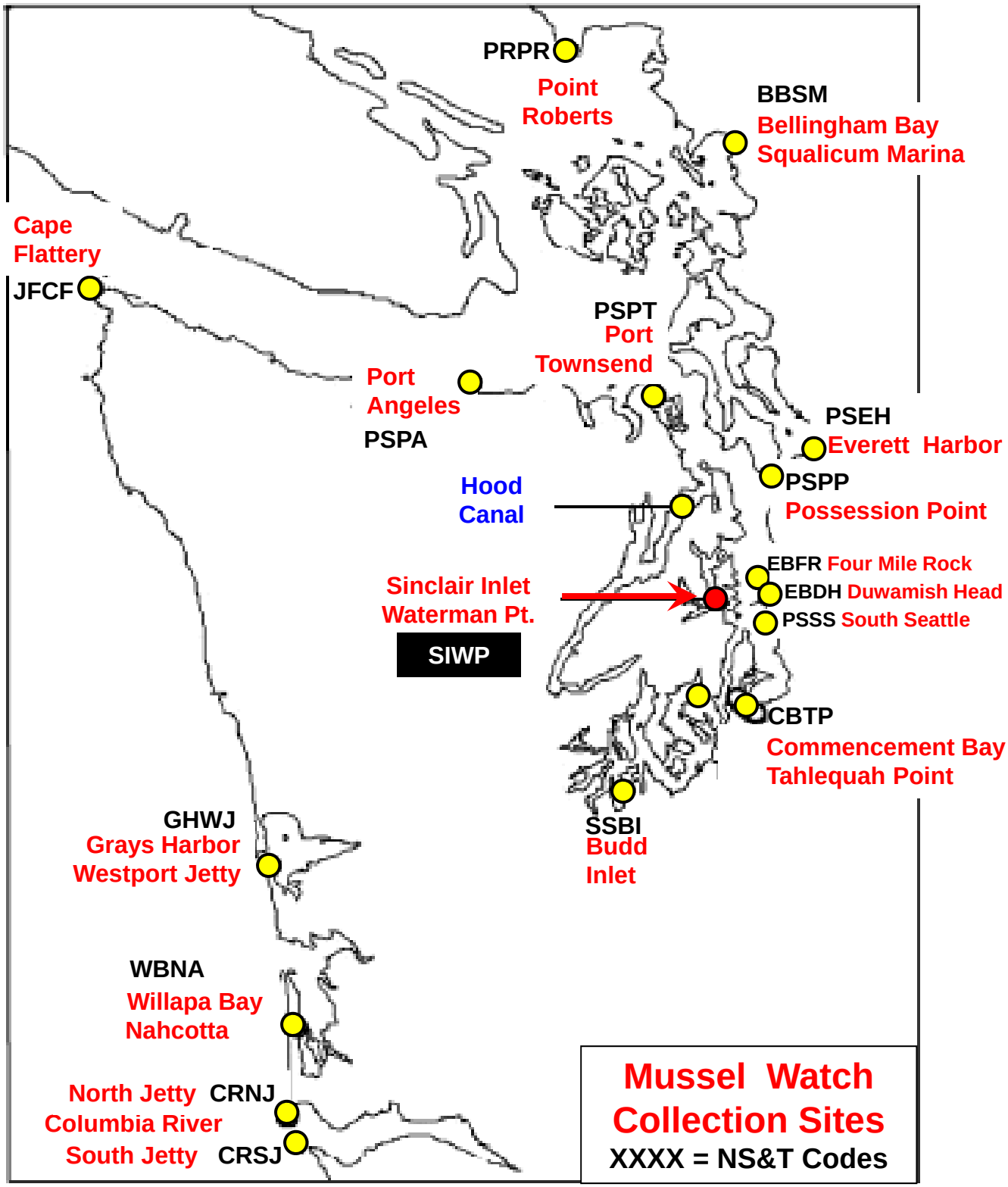



Figure 41. Names and locations of National Status & Trends Mussel Watch Sites in Puget Sound area (Mearns 2001)

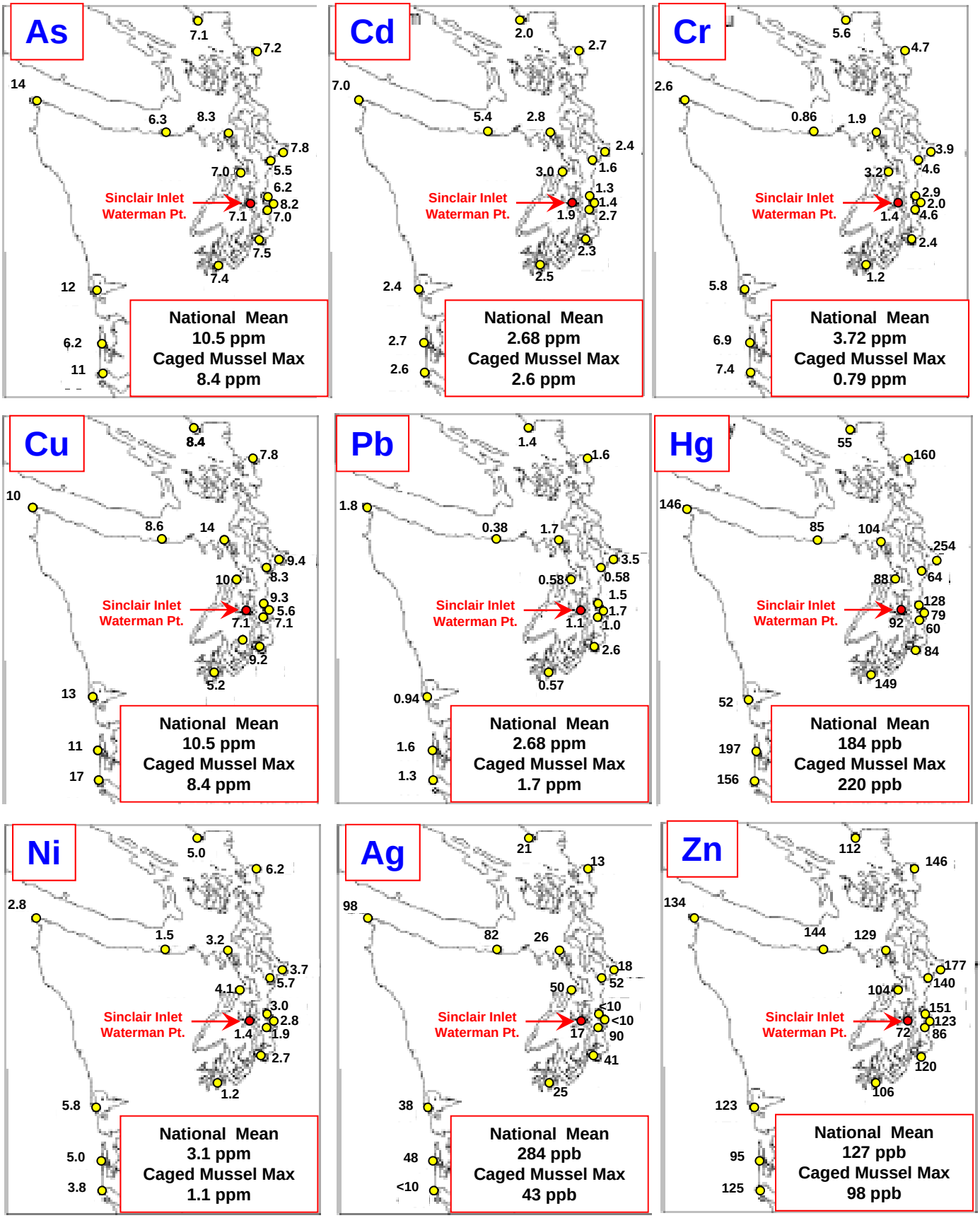



Figure 42. Metals concentrations in mussel tissues from Puget Sound from NOAA Status and Trends Mussel Watch program (Mearns, 2001). All units ppm dw except Hg and Ag (ppb dw).

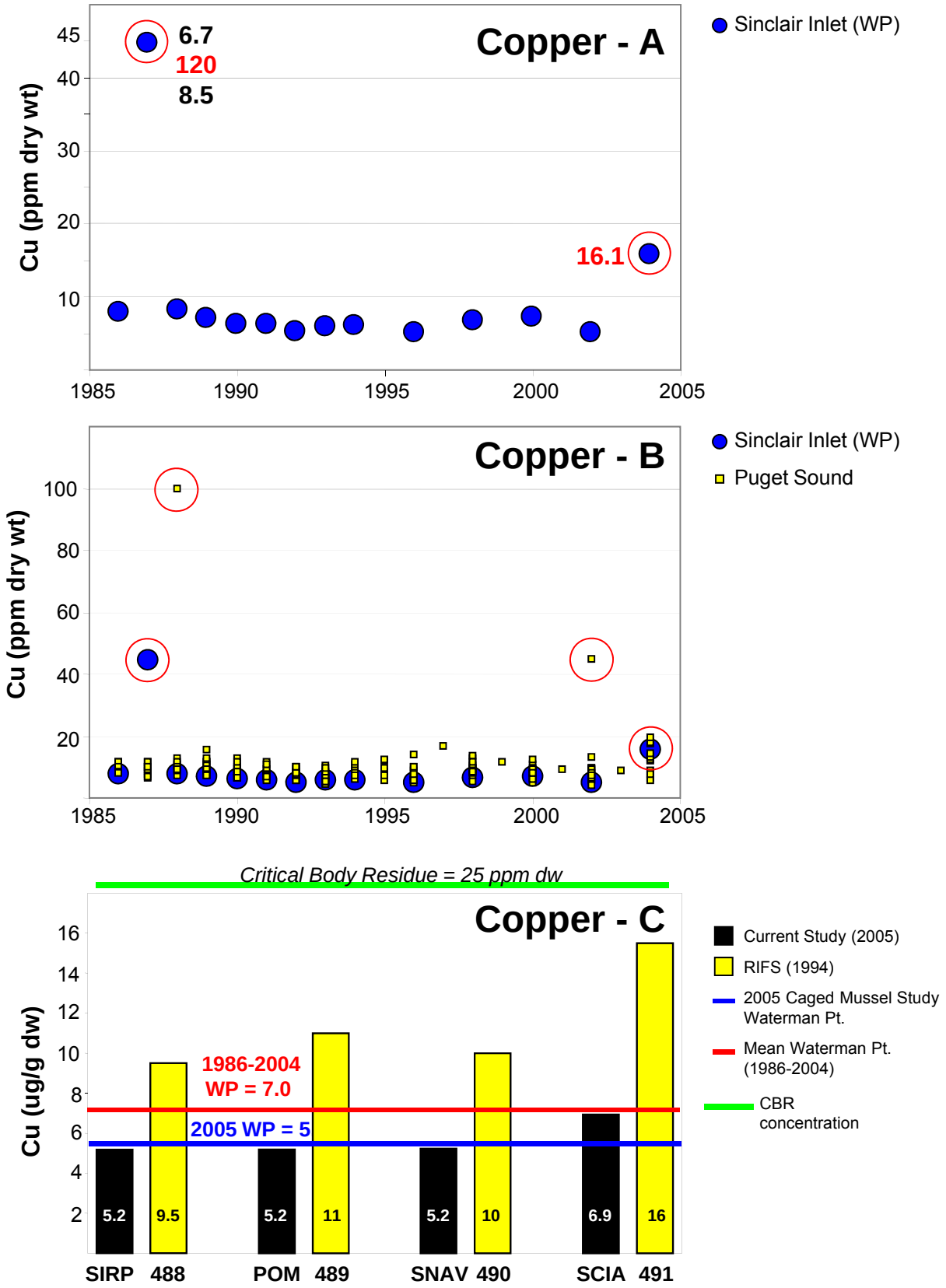



Figure 43. Copper concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) Copper concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled.

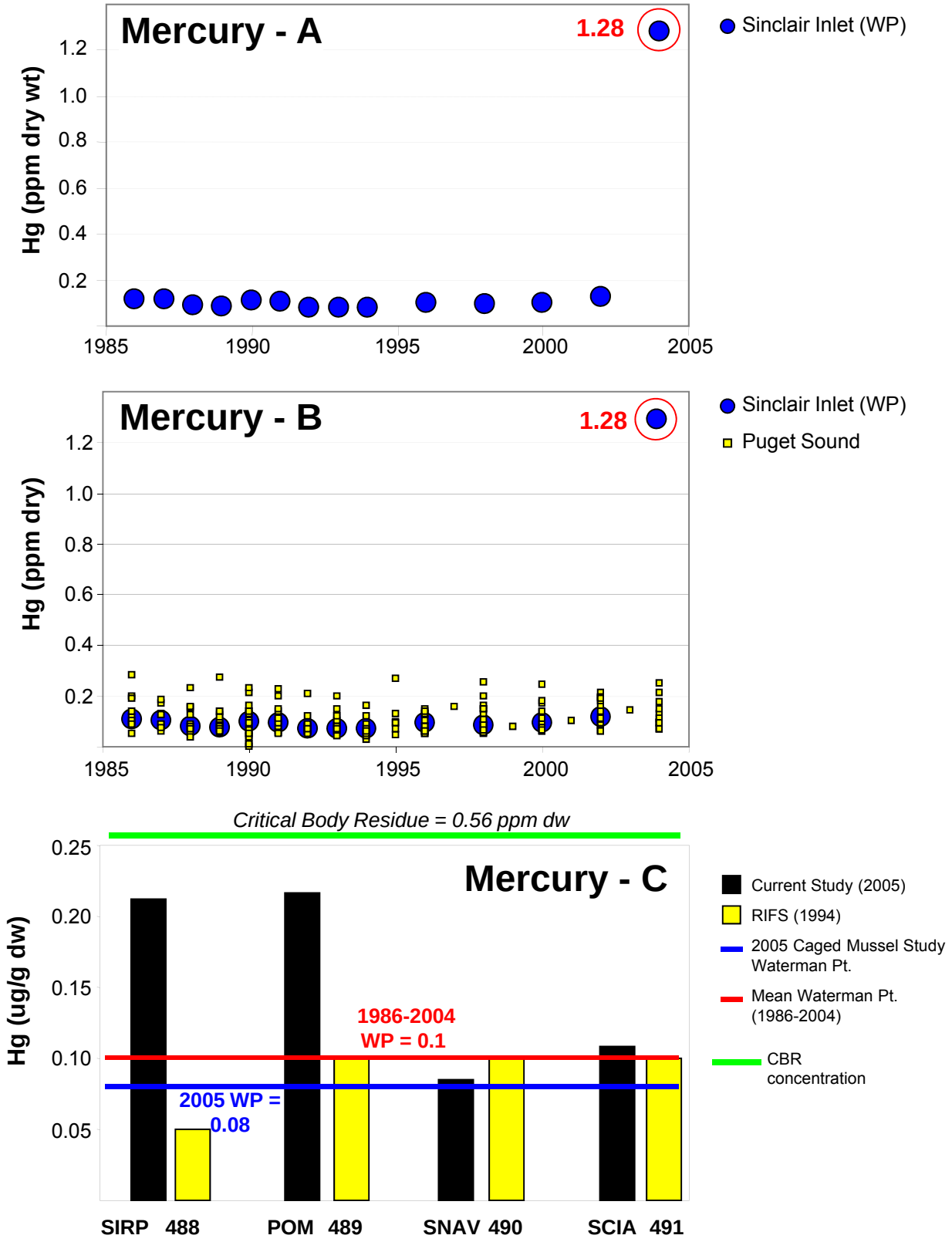



Figure 44. Mercury concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) Mercury concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled.

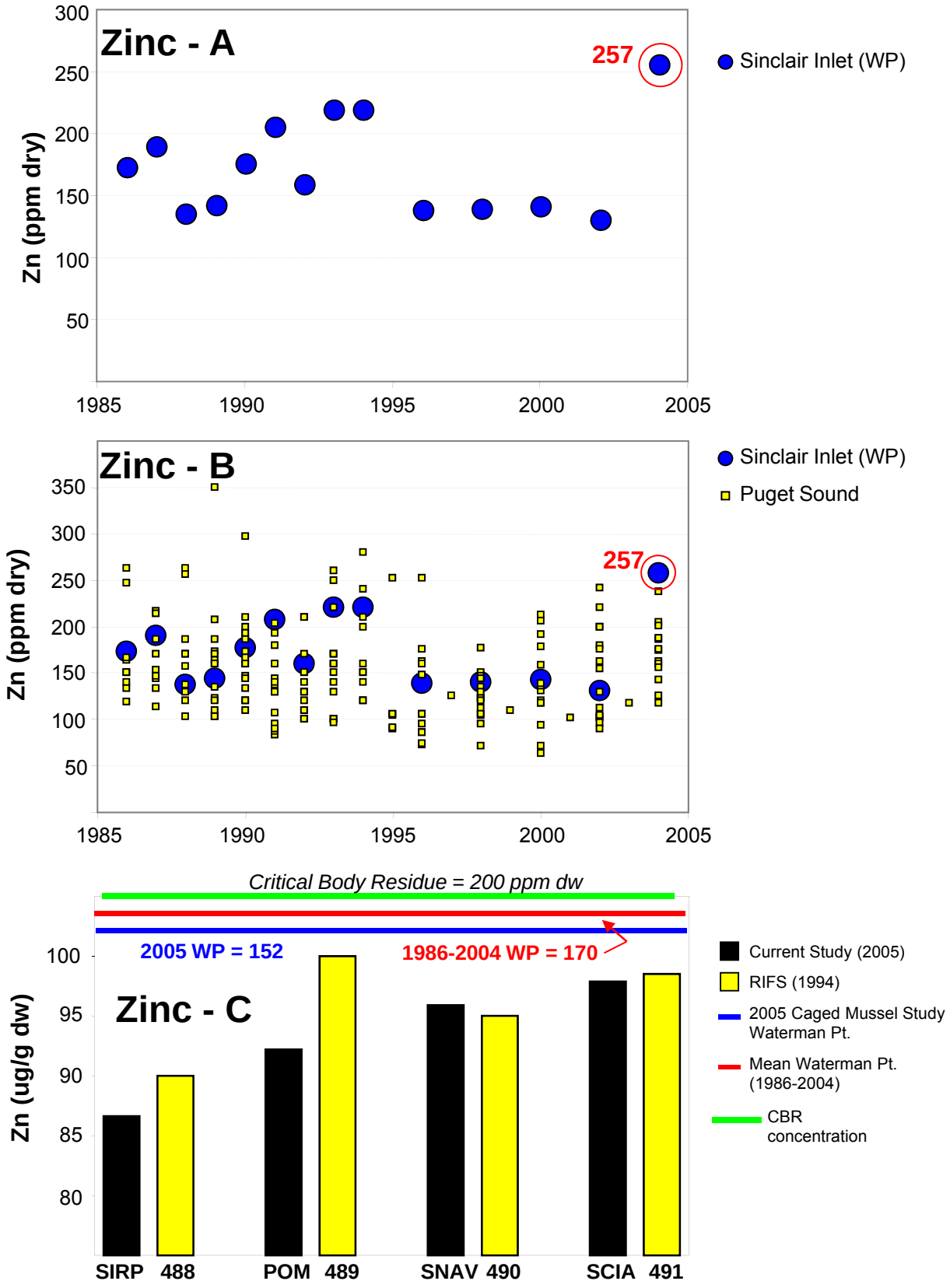



Figure 45. Zinc concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) Zinc concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled.

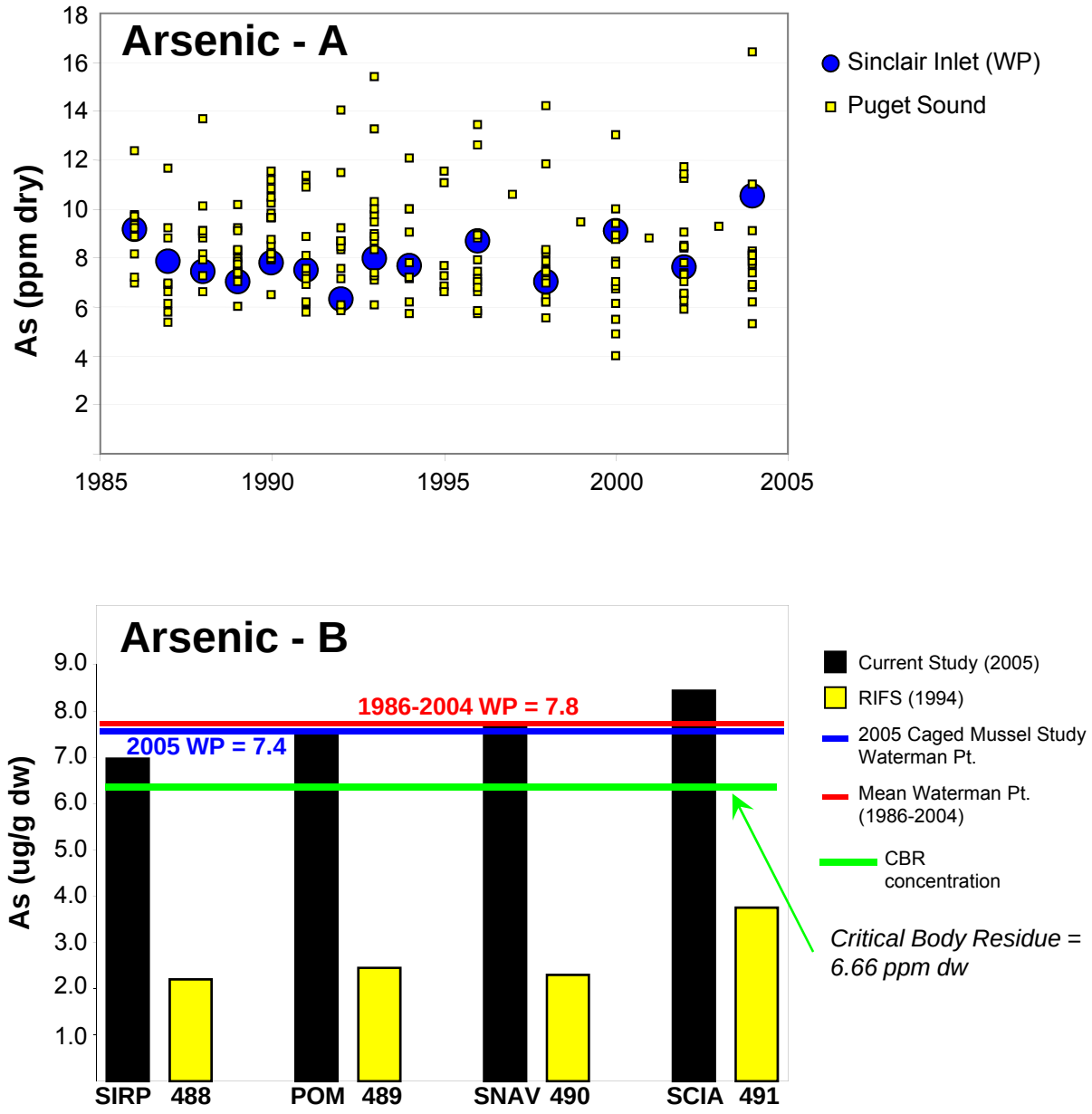



Figure 46. Arsenic concentrations from indigenous mussels. A) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. B) Arsenic concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown.

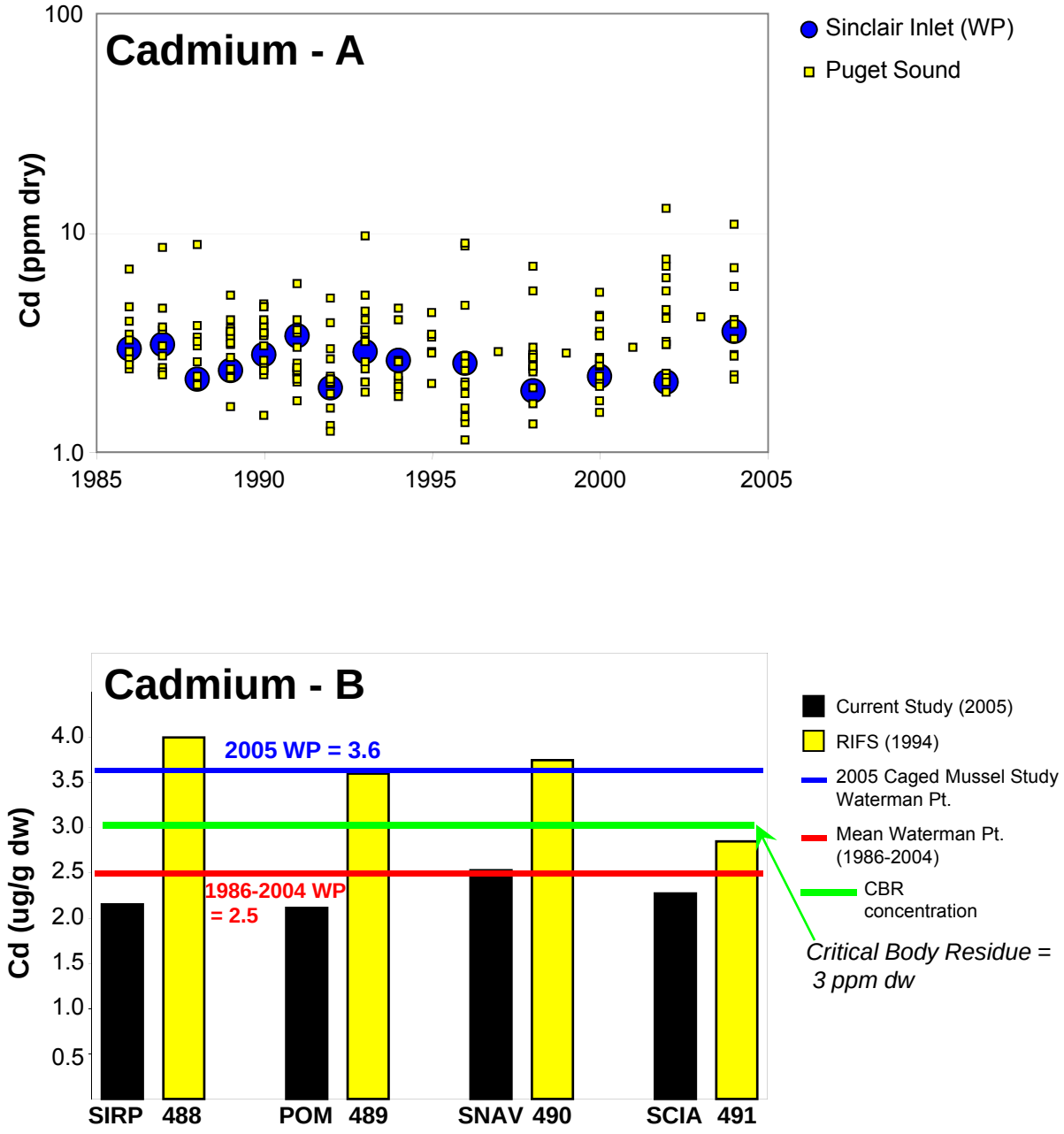



Figure 47. Cadmium concentrations from indigenous mussels. A) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. B) Cadmium concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown.

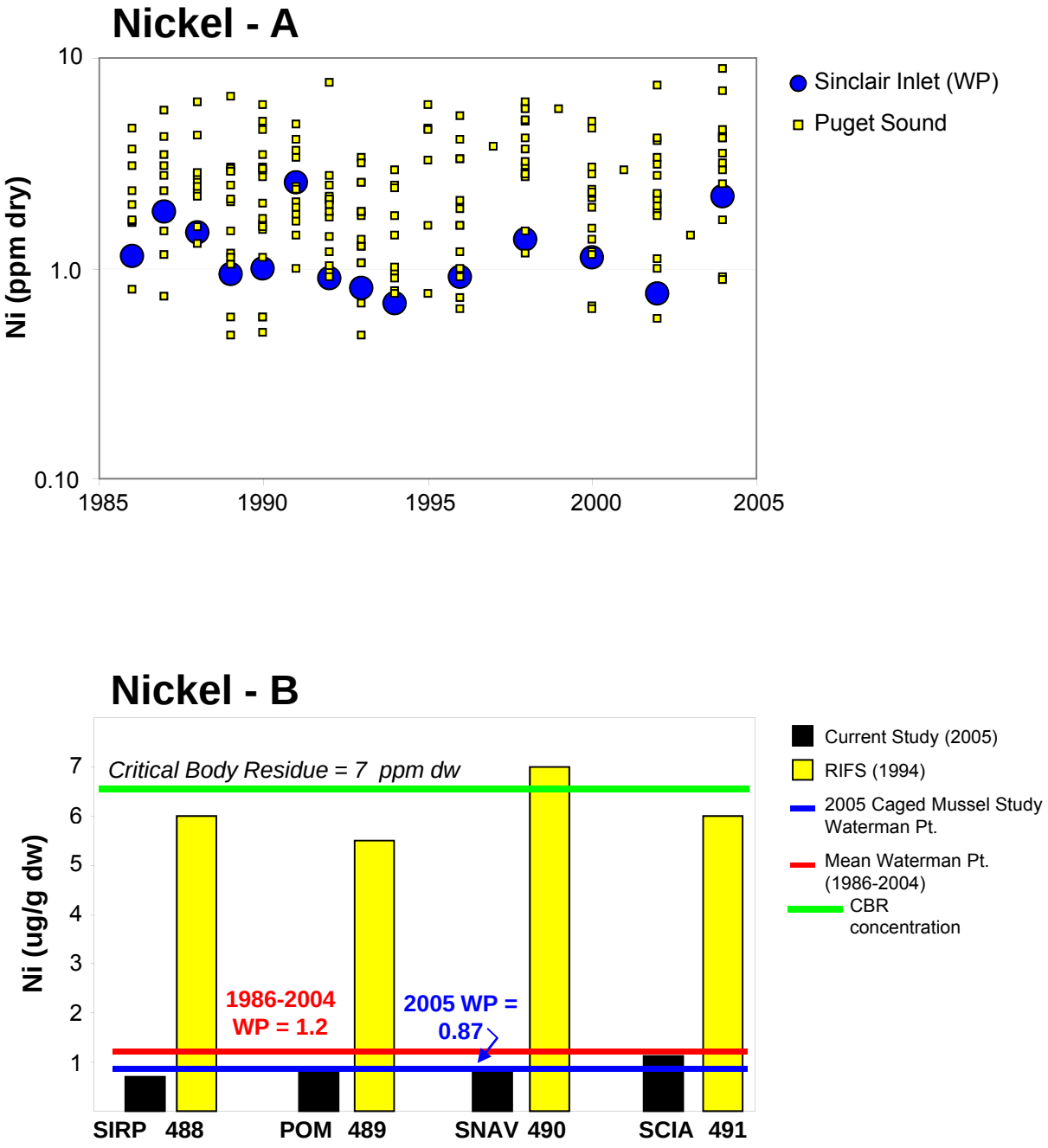



Figure 48. Nickel concentrations from indigenous mussels. A) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. B) Nickel concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown.

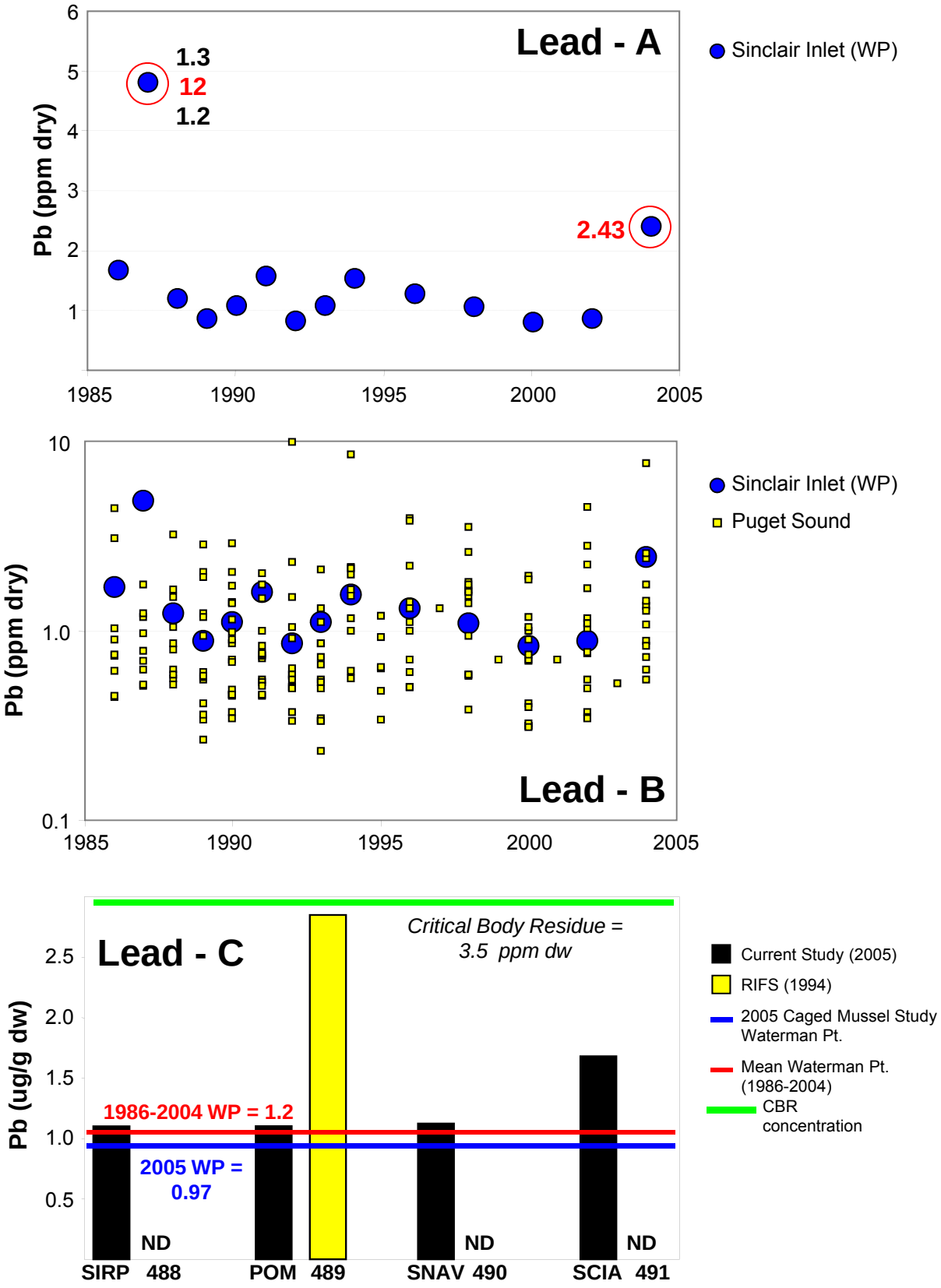



Figure 49. Lead concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) Lead concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled. ND = not detected.

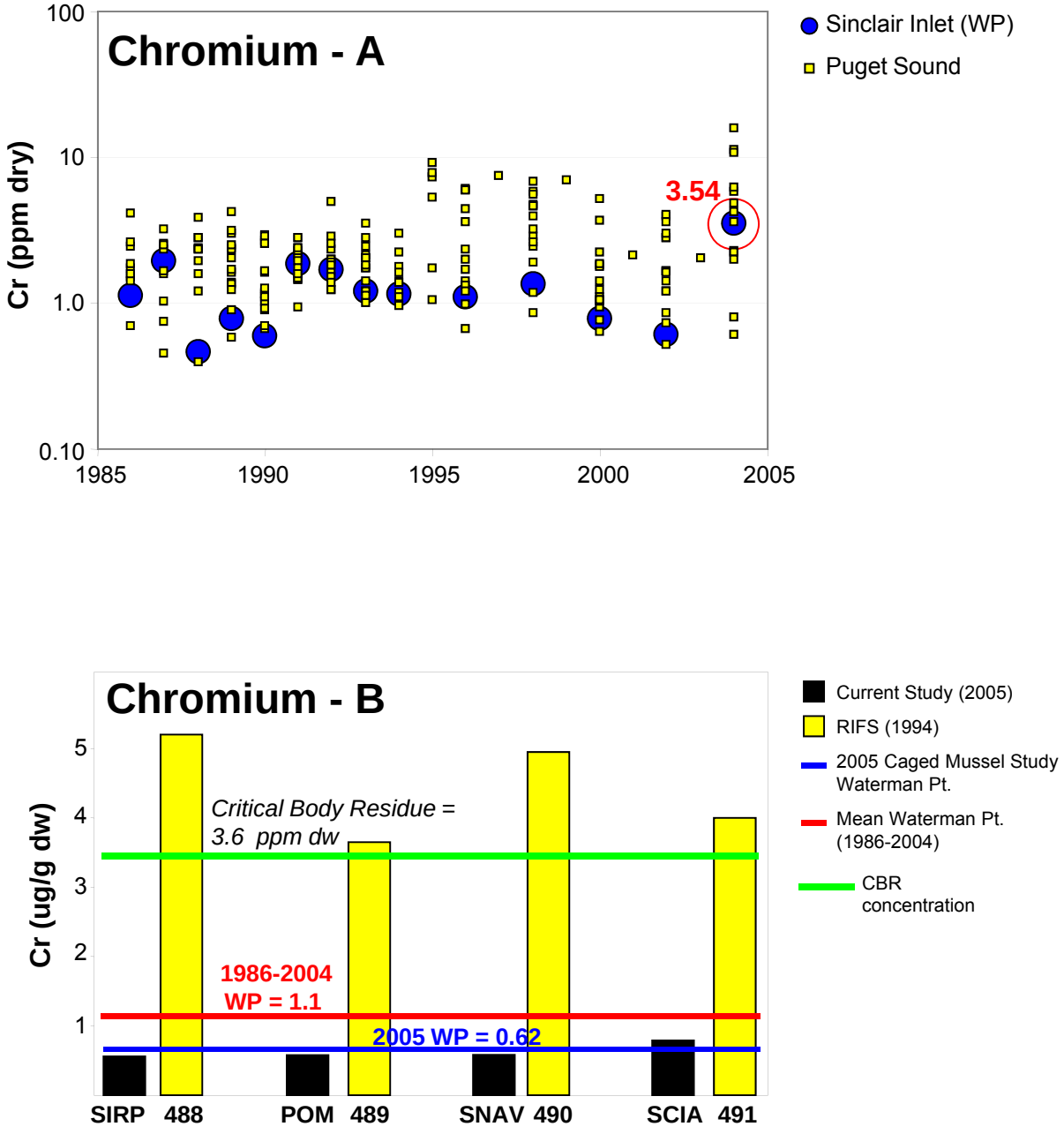



Figure 50. Chromium concentrations from indigenous mussels. A) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. B) Chromium concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled.

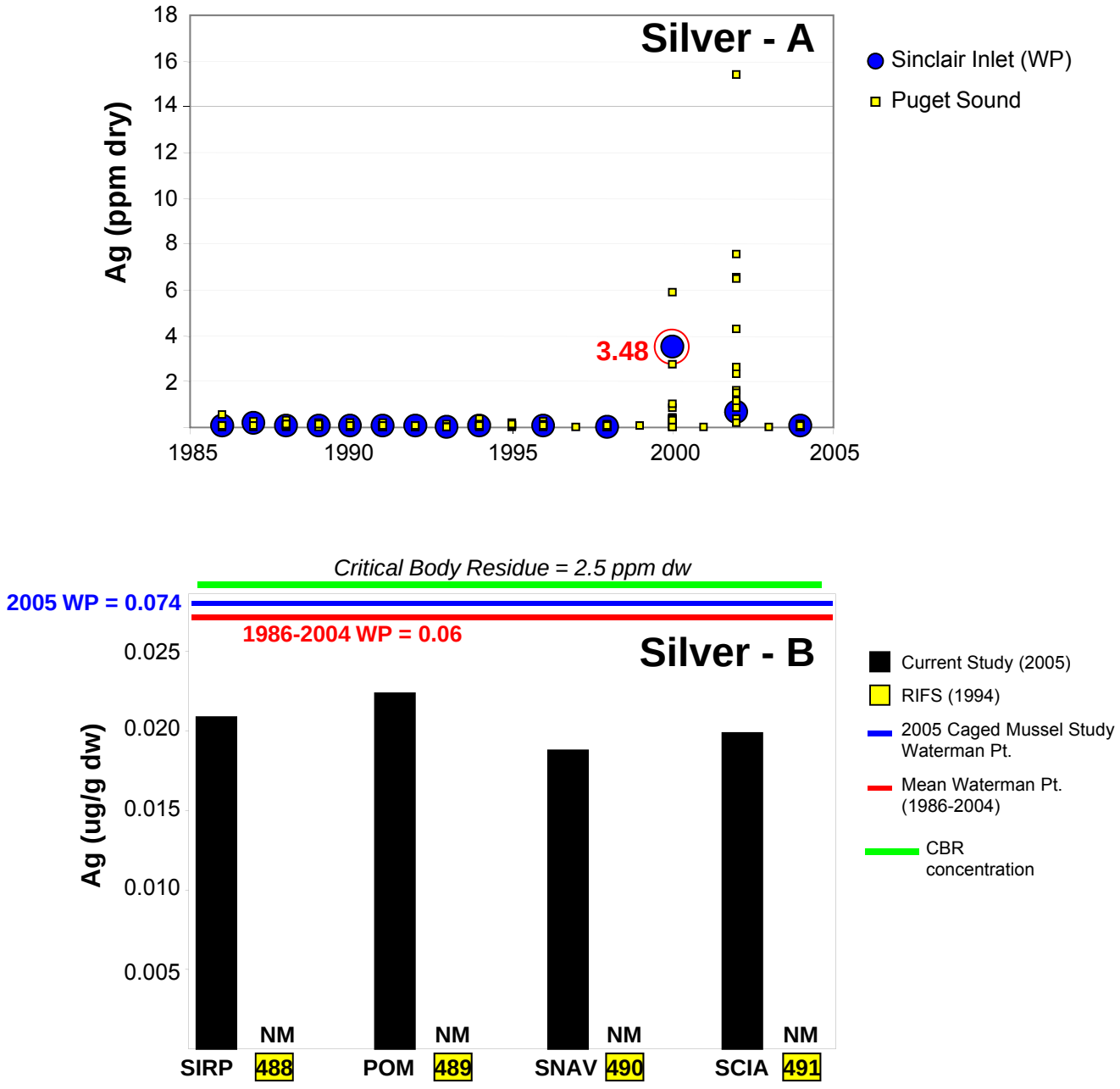
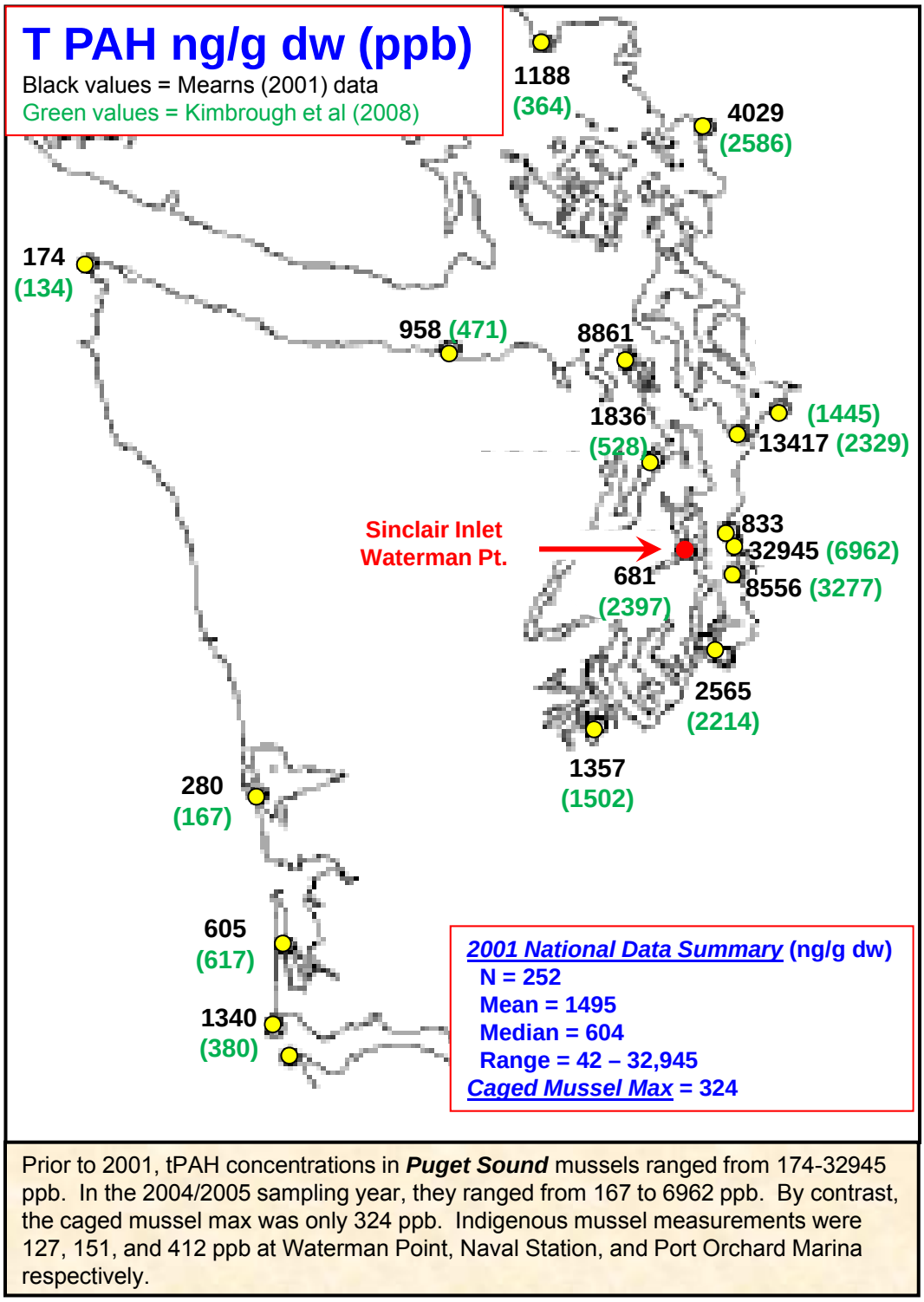



Figure 51. Silver concentrations from indigenous mussels. A) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. B) Silver concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled. (NM = not measured)




Prior to 2001, tPAH concentrations in ***Puget Sound*** mussels ranged from 174-32945 ppb. In the 2004/2005 sampling year, they ranged from 167 to 6962 ppb. By contrast, the caged mussel max was only 324 ppb. Indigenous mussel measurements were 127, 151, and 412 ppb at Waterman Point, Naval Station, and Port Orchard Marina respectively.

Figure 52. tPAH concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). (NM = not measured) (Mearns 2001)

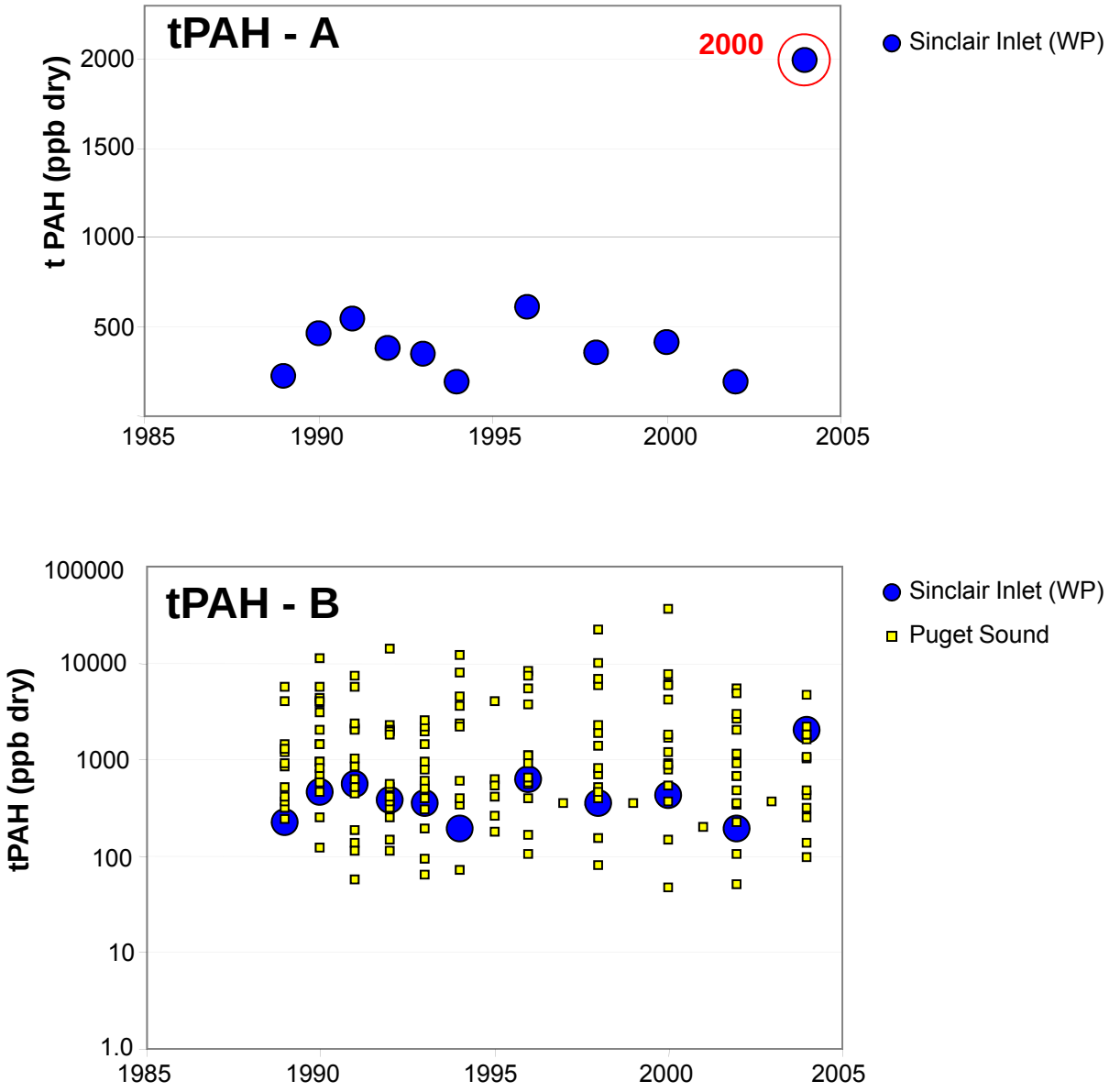
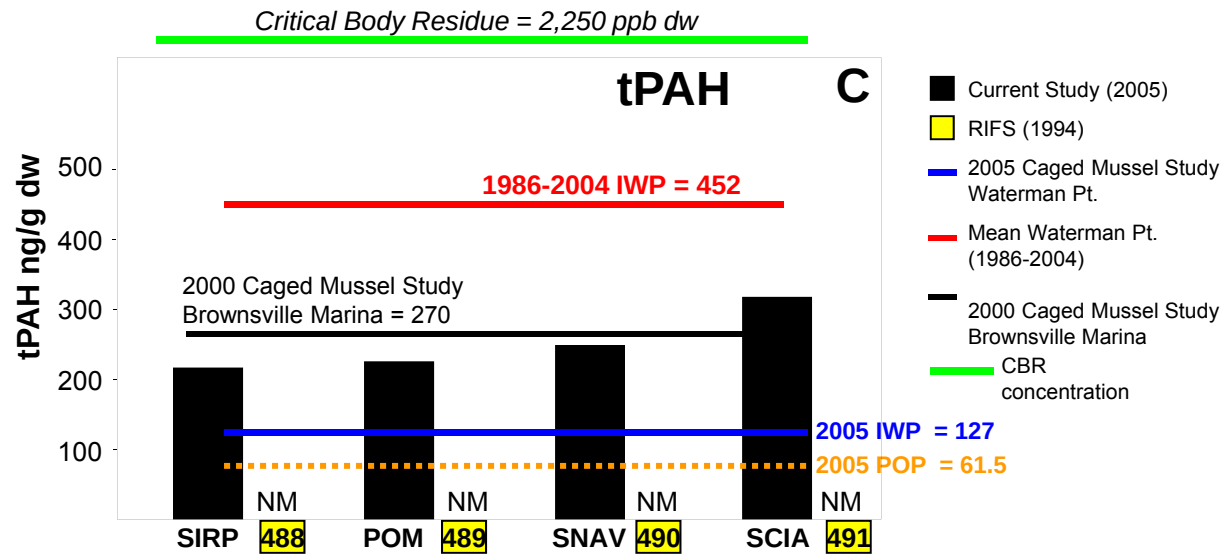



Figure 53. tPAH concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) tPAH concentrations from caged mussel studies (1994, 2000 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled. NM = not measured (Figure 53 continued next page)



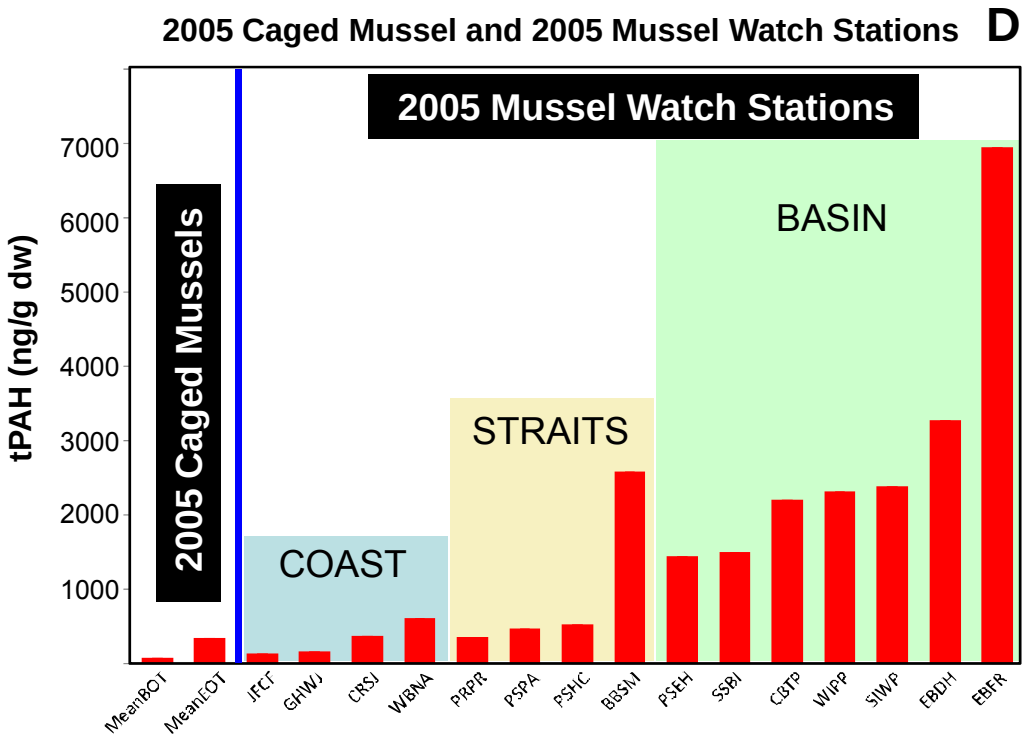




Figure 53 (continued). tPAH concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) tPAH concentrations from caged mussel studies (1994, 2000 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. Apparent outliers are circled. D) Comparison of current 2005 caged mussel study results with 2005 Mussel Watch data for the coast, straits, and basin. NM = not measured

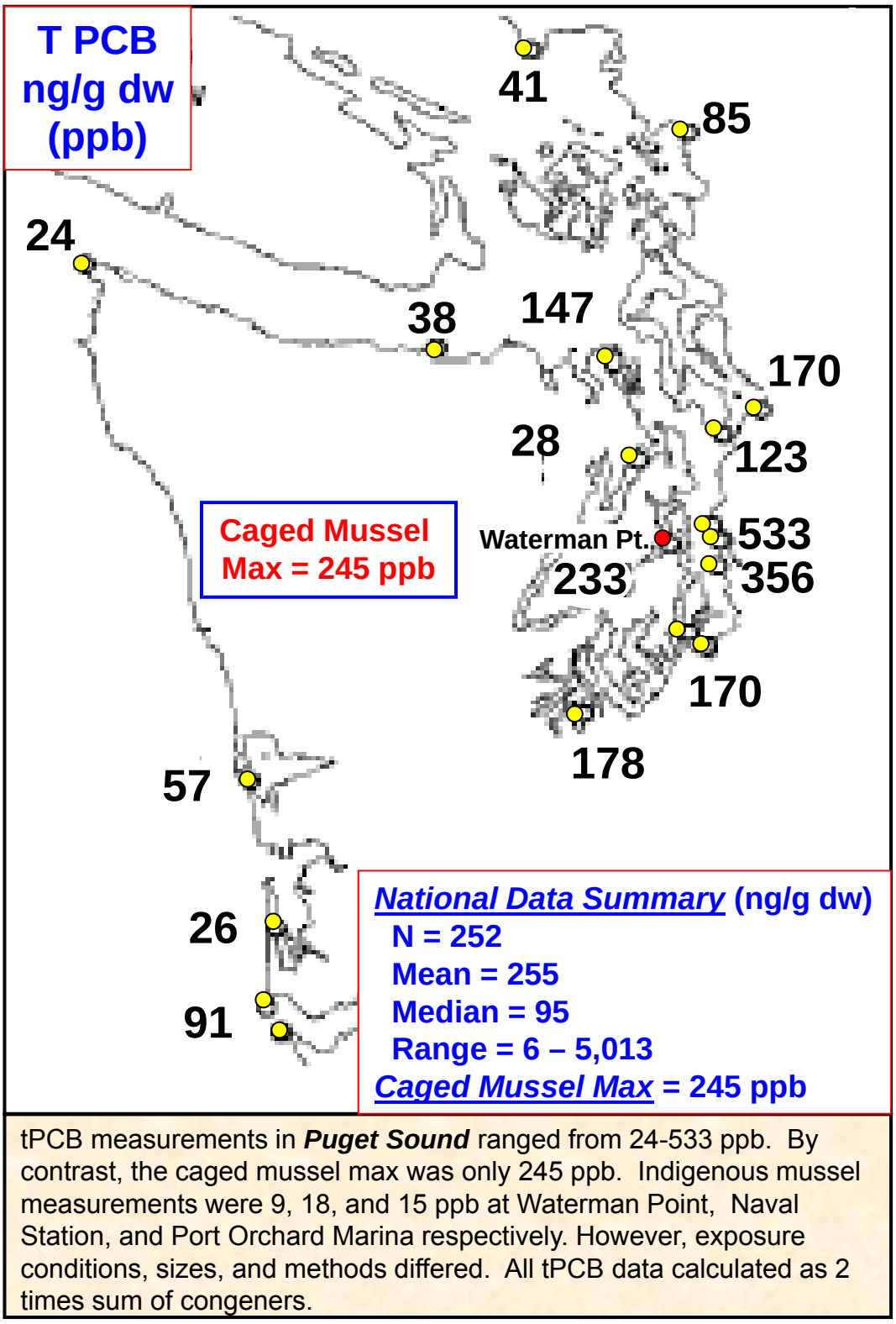



Figure 54. tPCB concentrations from Waterman Point data from NOAA Mussel Watch (1996 – 1998) from Mearns (2001).

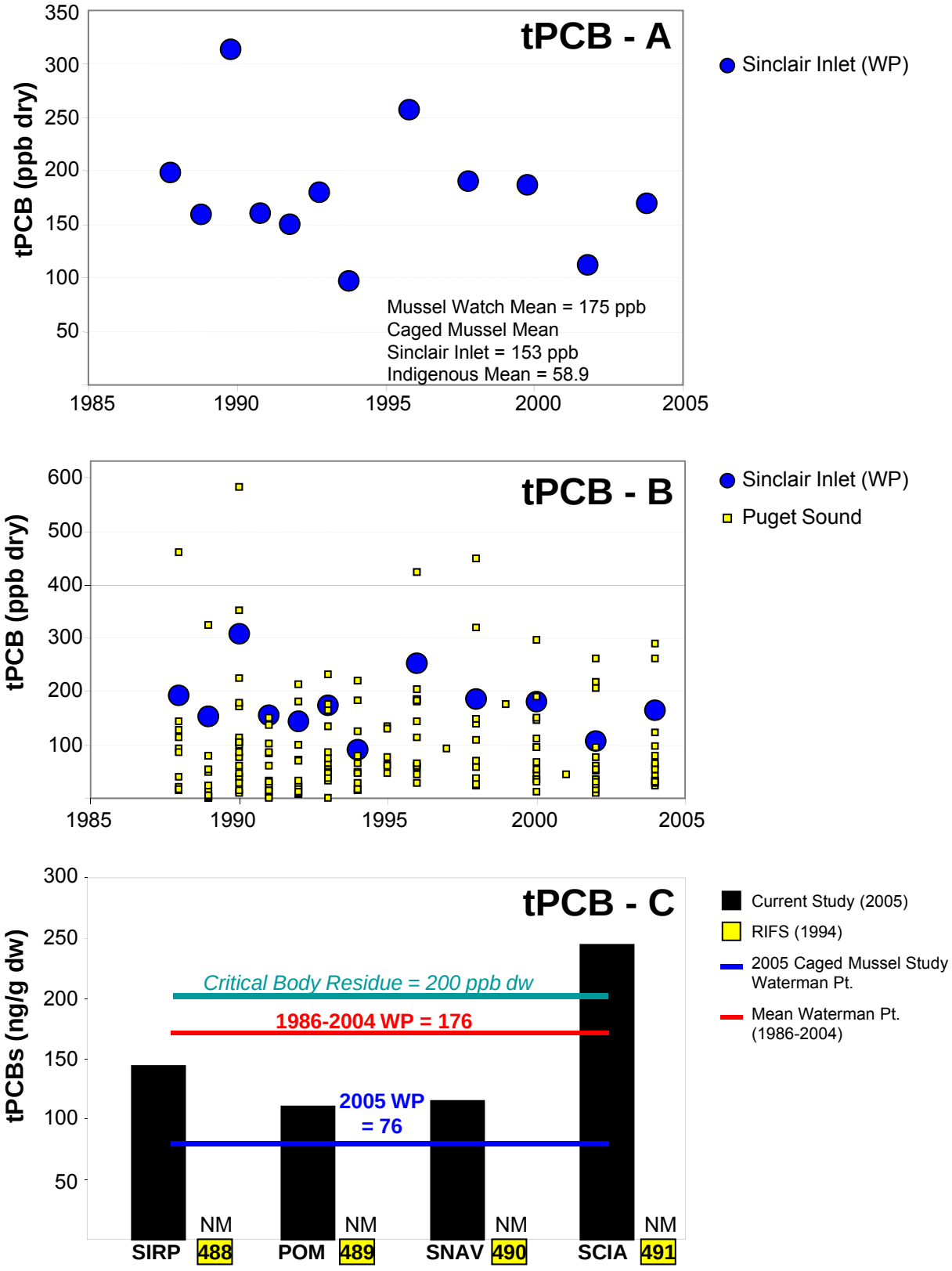



Figure 55. tPCB concentrations from indigenous mussels. A) Waterman Point NOAA Mussel Watch sampling site from 1986 to 2004. B) Waterman Point and other Puget Sound sampling sites from NOAA Mussel Watch between 1986 and 2004. C) tPCB concentrations from caged mussel studies (1994 & 2005), indigenous mussels (2005), and mean Waterman Point data from NOAA Mussel Watch (1986 – 2004). CBRs are also shown. NM = not measured. tPCB calculated as 2 times sum congeners.

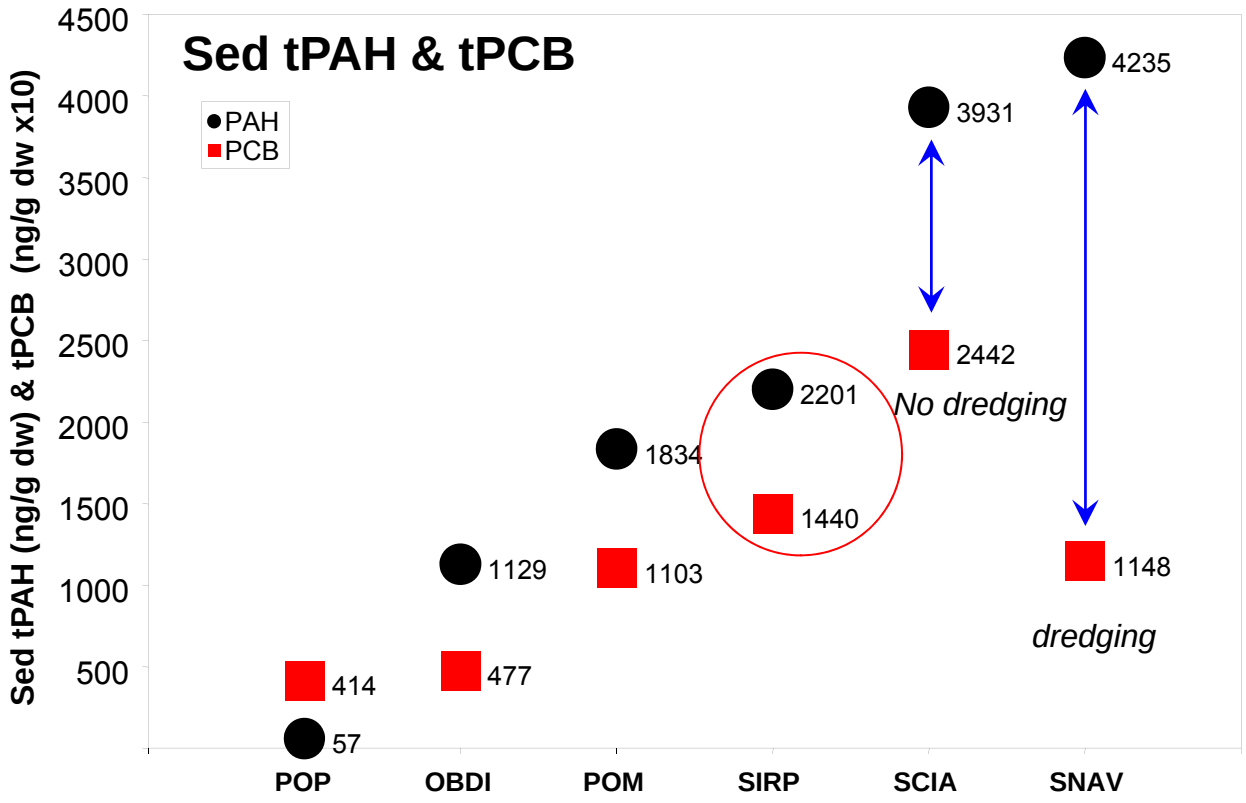



Figure 56. Comparison of tPAH and tPCB concentrations in sediment collected as part of the caged mussel study. Note the large differences between SCIA and SNAV and that SNAV follows an increasing gradient for tPAH but not for PCBs. Dredging at SNAV may explain the differences in PCB concentrations but not PAH concentrations.

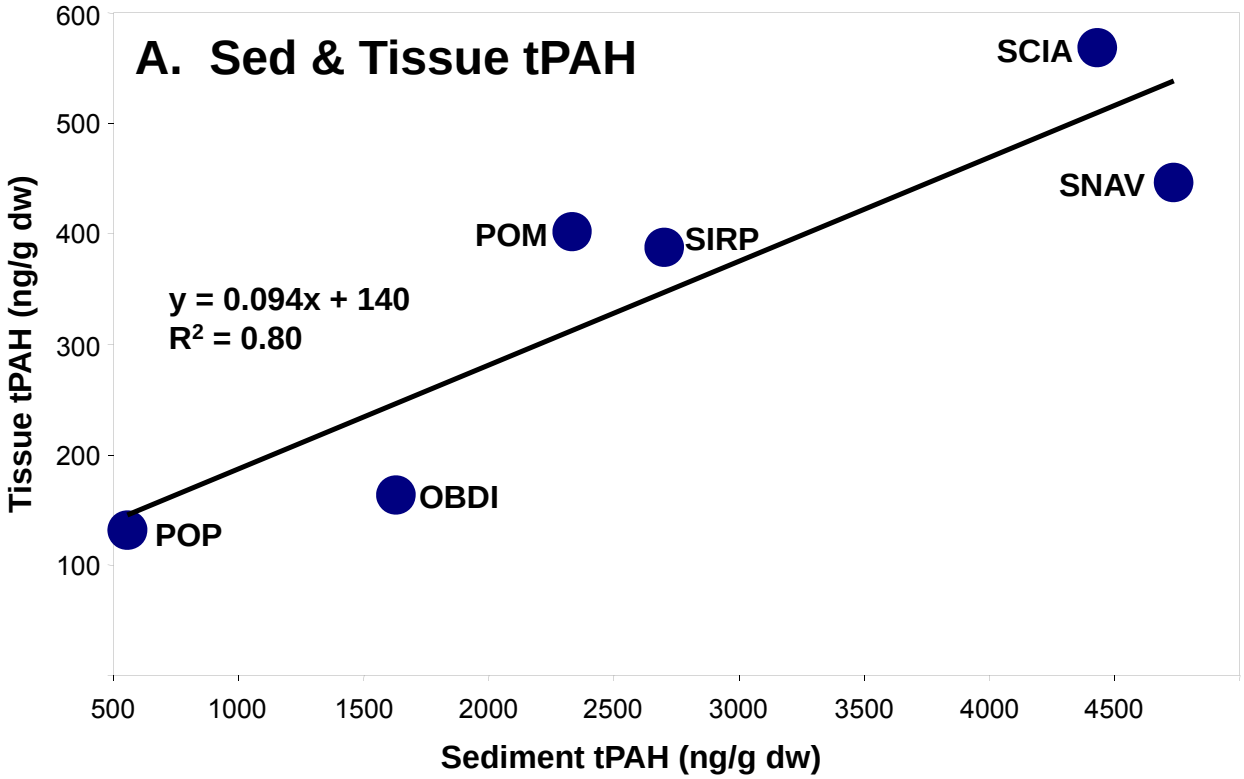



Figure 57A. Relationship between mean tPAH concentrations in sediment and caged mussel tissues Sediment values are shown as ng/kg dry weight..

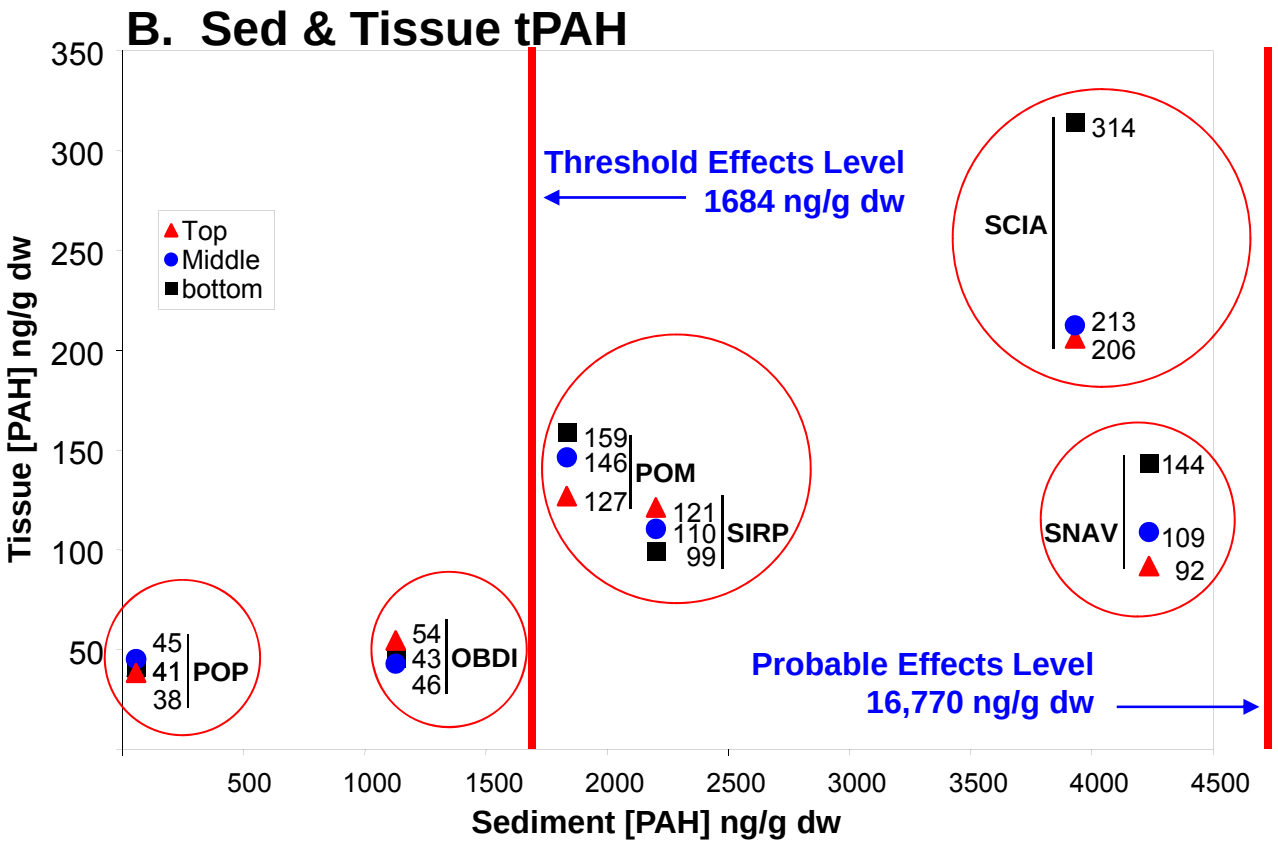



Figure 57B. Relationship between tPAH concentrations in sediment and caged mussel tissues. Each circle shows the distribution of measurements at a deployment station for the top, middle, and bottom positions. Effects level concentrations (in units of ng/g dry weight) are from NOAA Screening Quick Reference Tables (SQRT; NOAA 2008) .

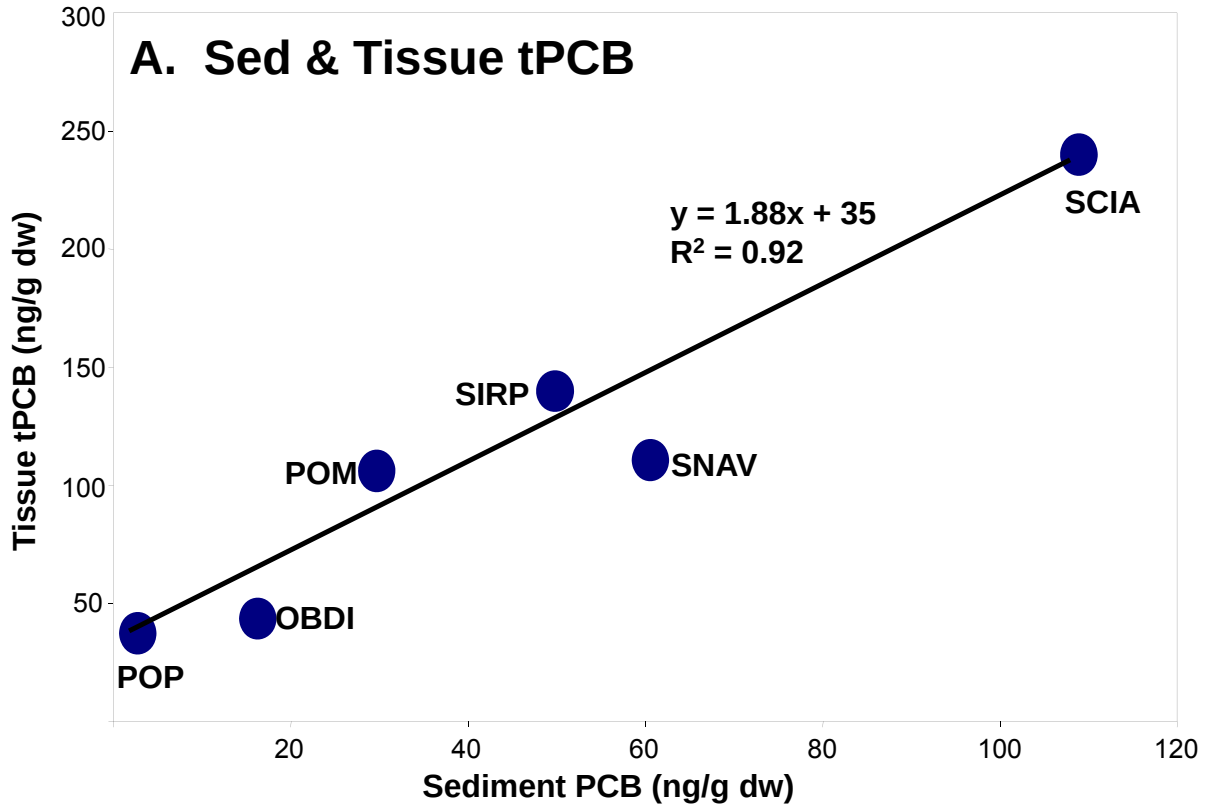



Figure 58A. Relationship between mean tPCB concentrations in sediment and caged mussel tissues. Sediment values are shown as ng/kg dry weight.

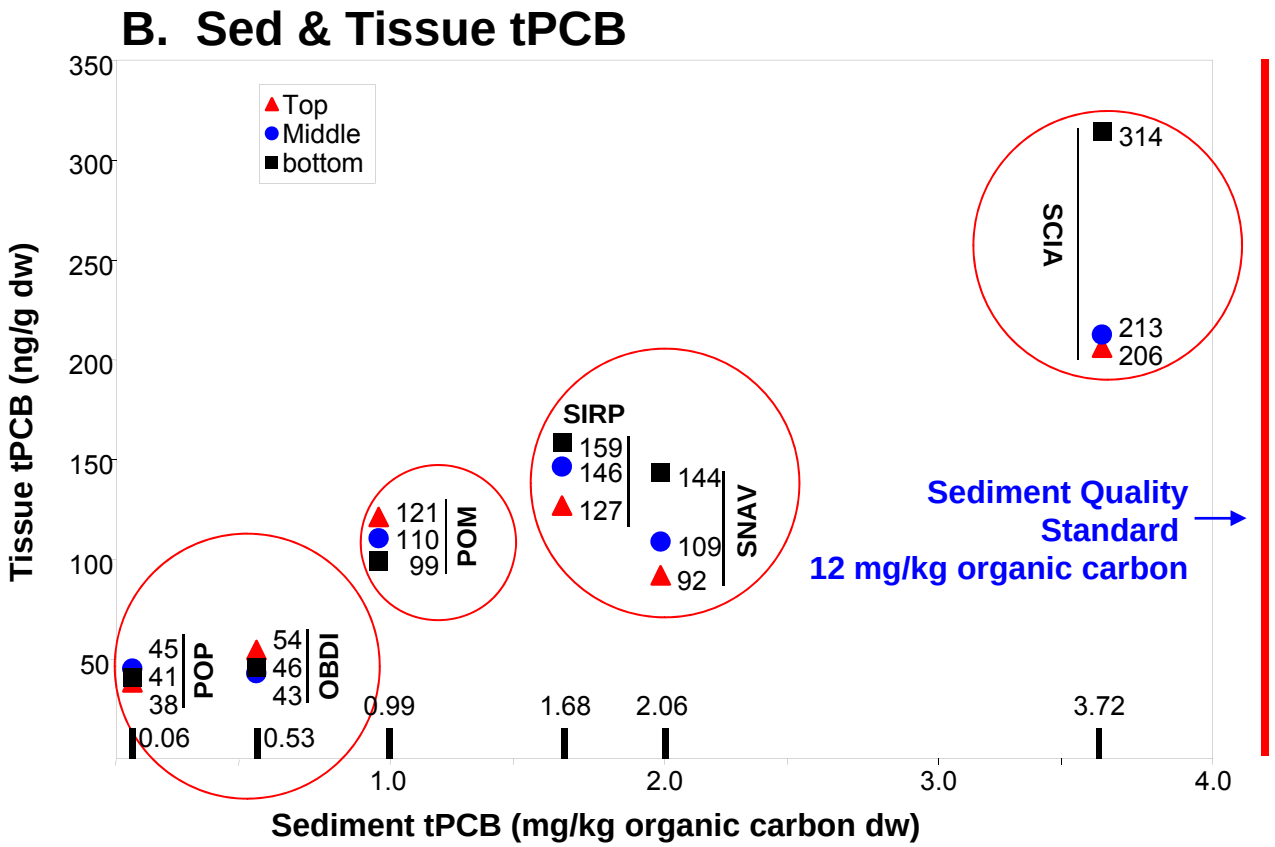



Figure 58B. Relationship between tPCB concentrations in sediment and caged mussel tissues. Each circle shows potentially similar groupings. TOC normalized sediment concentrations were calculated using study average of 2.95% TOC (Brandenberger et al 2006).

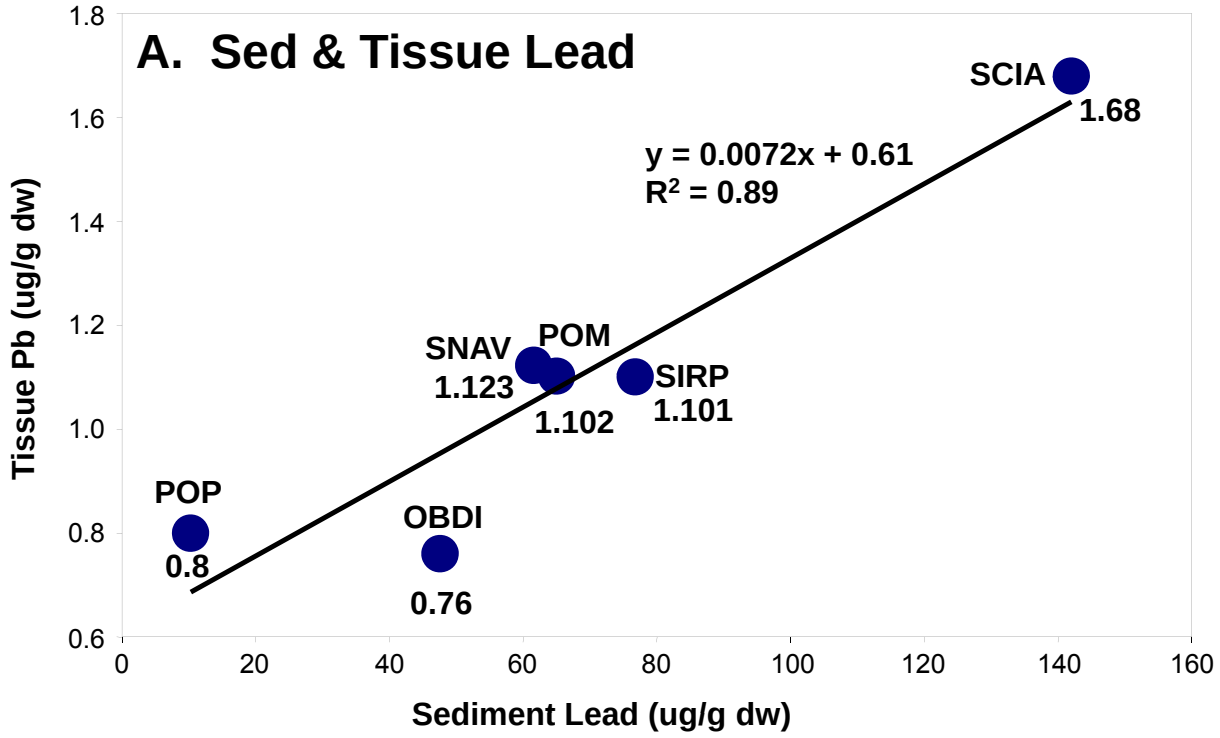



Figure 59A. Relationship between mean lead concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

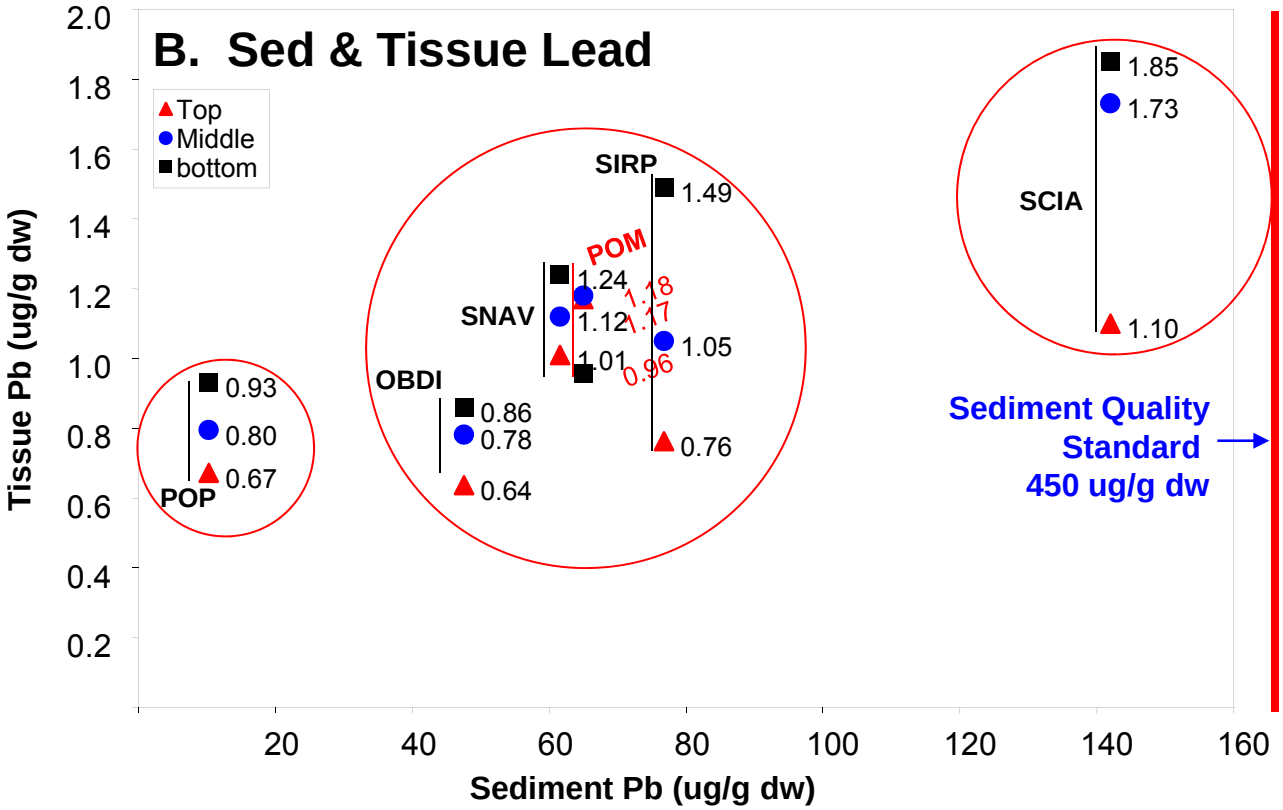



Figure 59B. Relationship between lead concentrations in sediment and caged mussel tissues. Each circle shows potentially similar groupings.

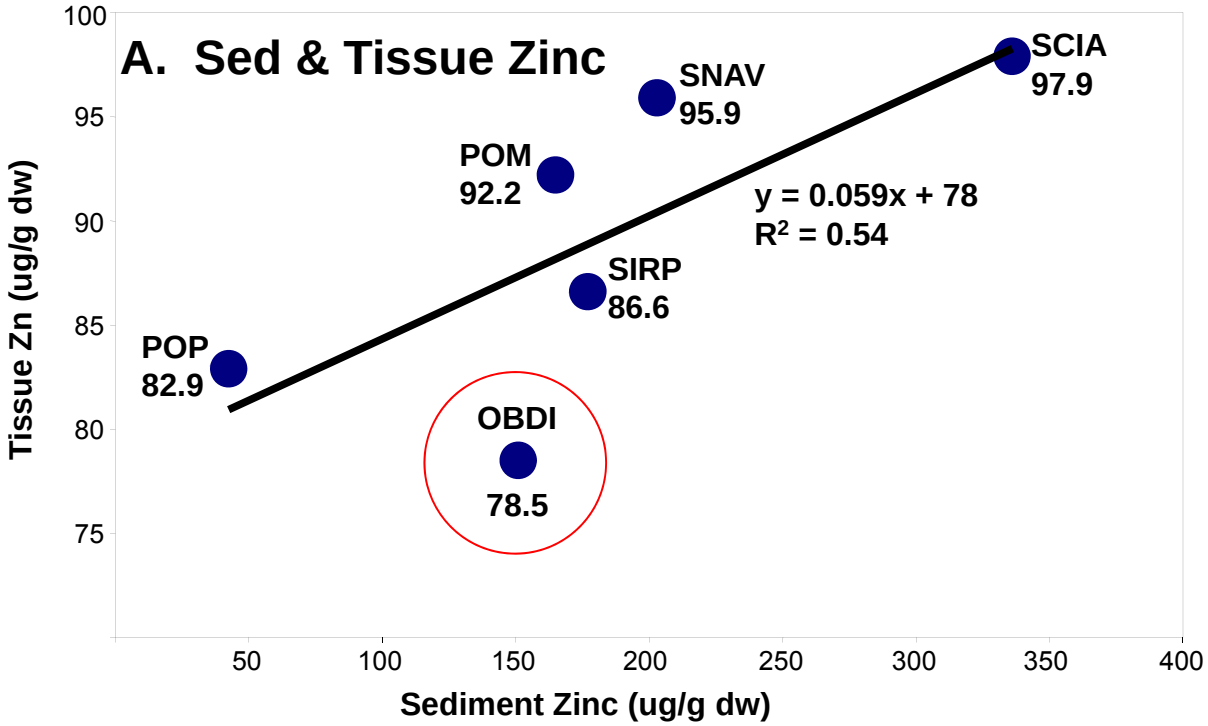



Figure 60A. Relationship between mean zinc concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

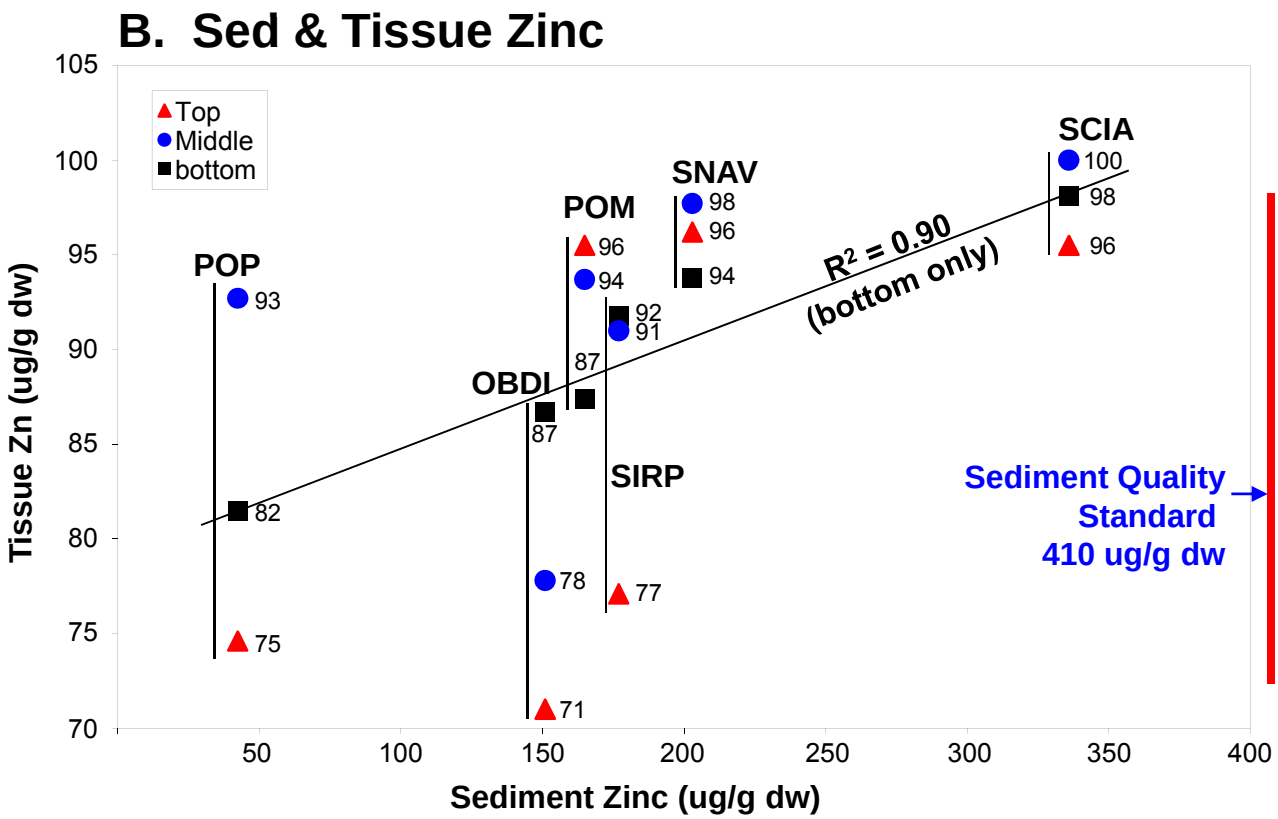



Figure 60B. Relationship between zinc concentrations in sediment and caged mussel tissues.

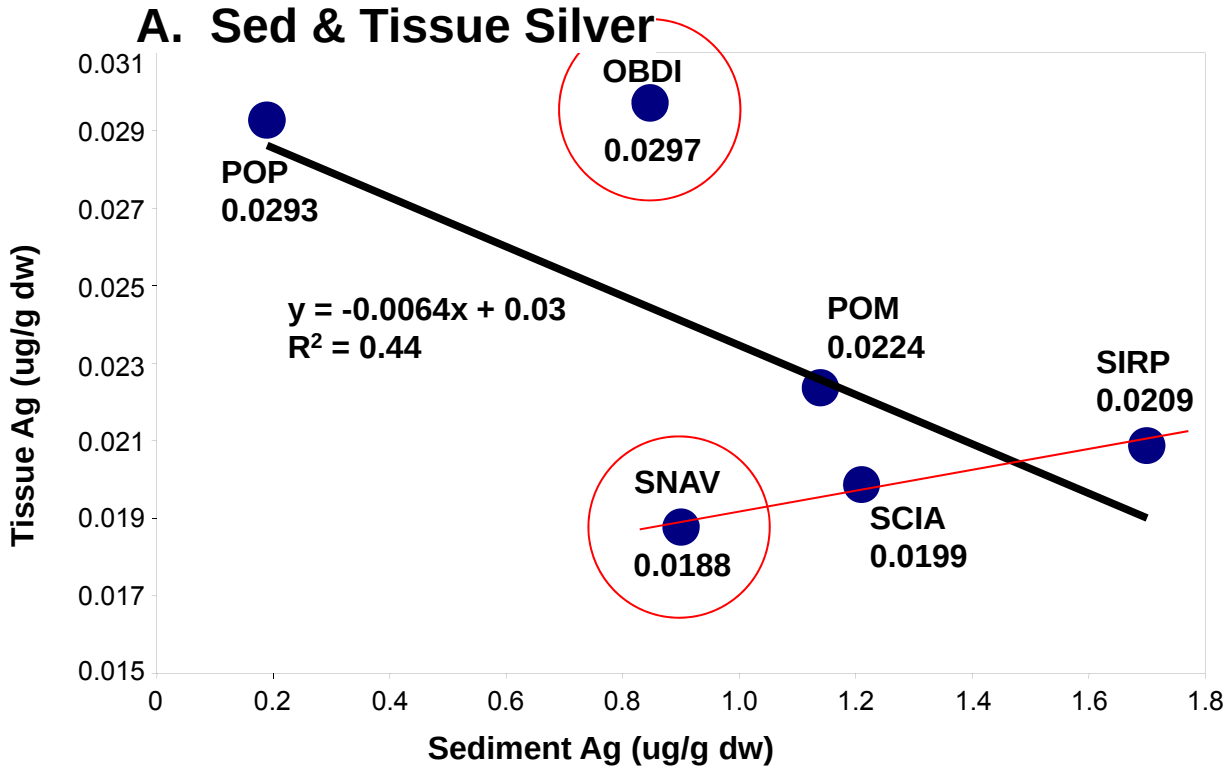



Figure 61A. Relationship between mean silver concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

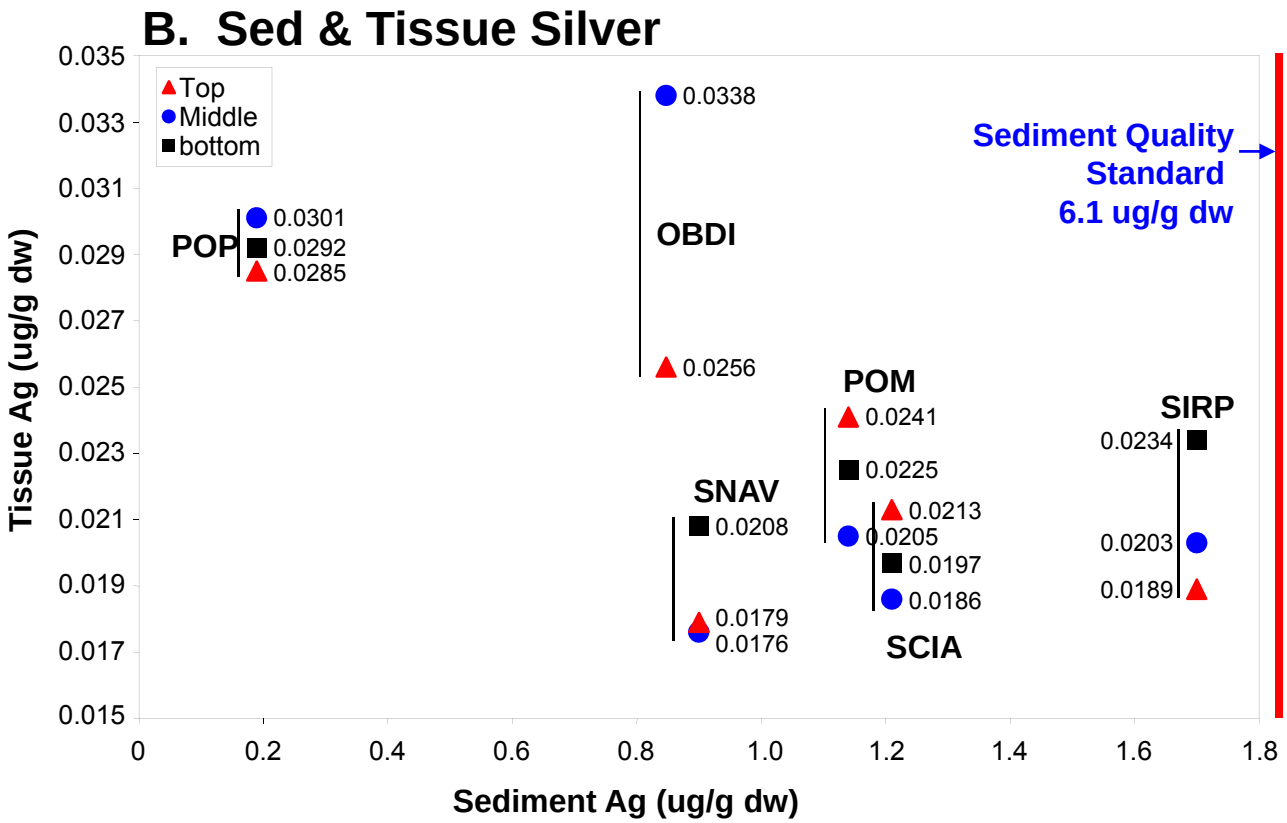



Figure 61B. Relationship between silver concentrations in sediment and caged mussel tissues.

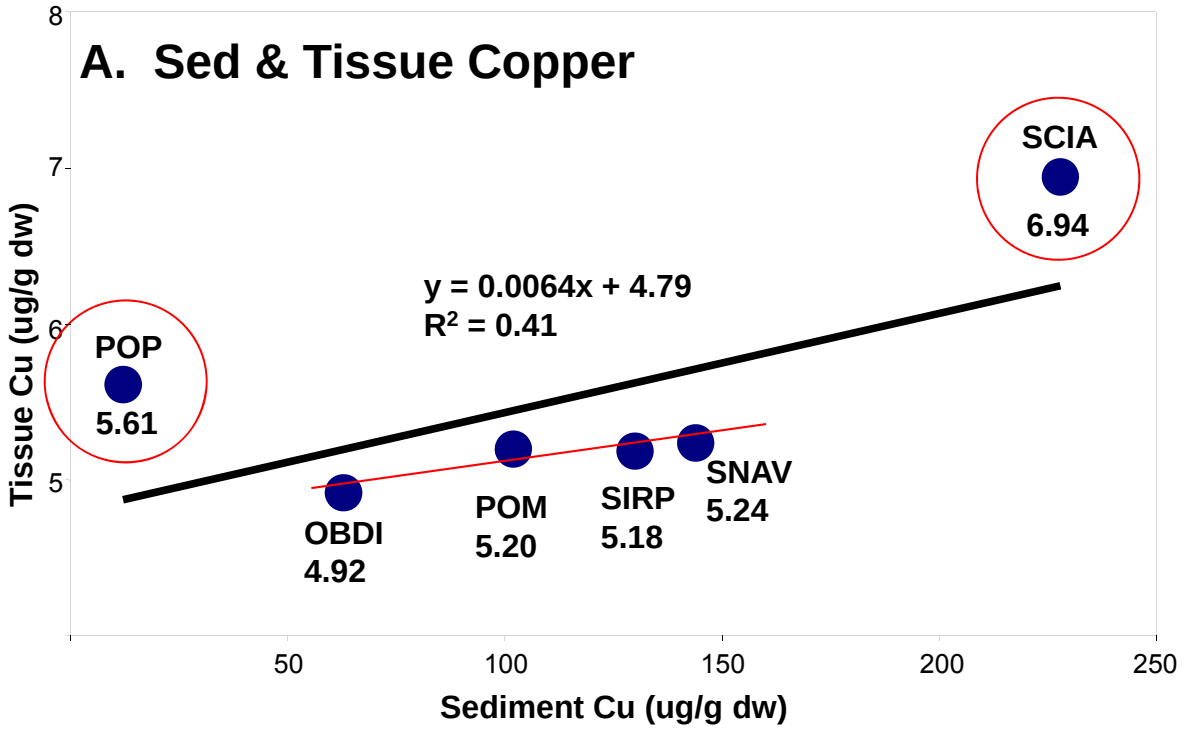



Figure 62A. Relationship between mean copper concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

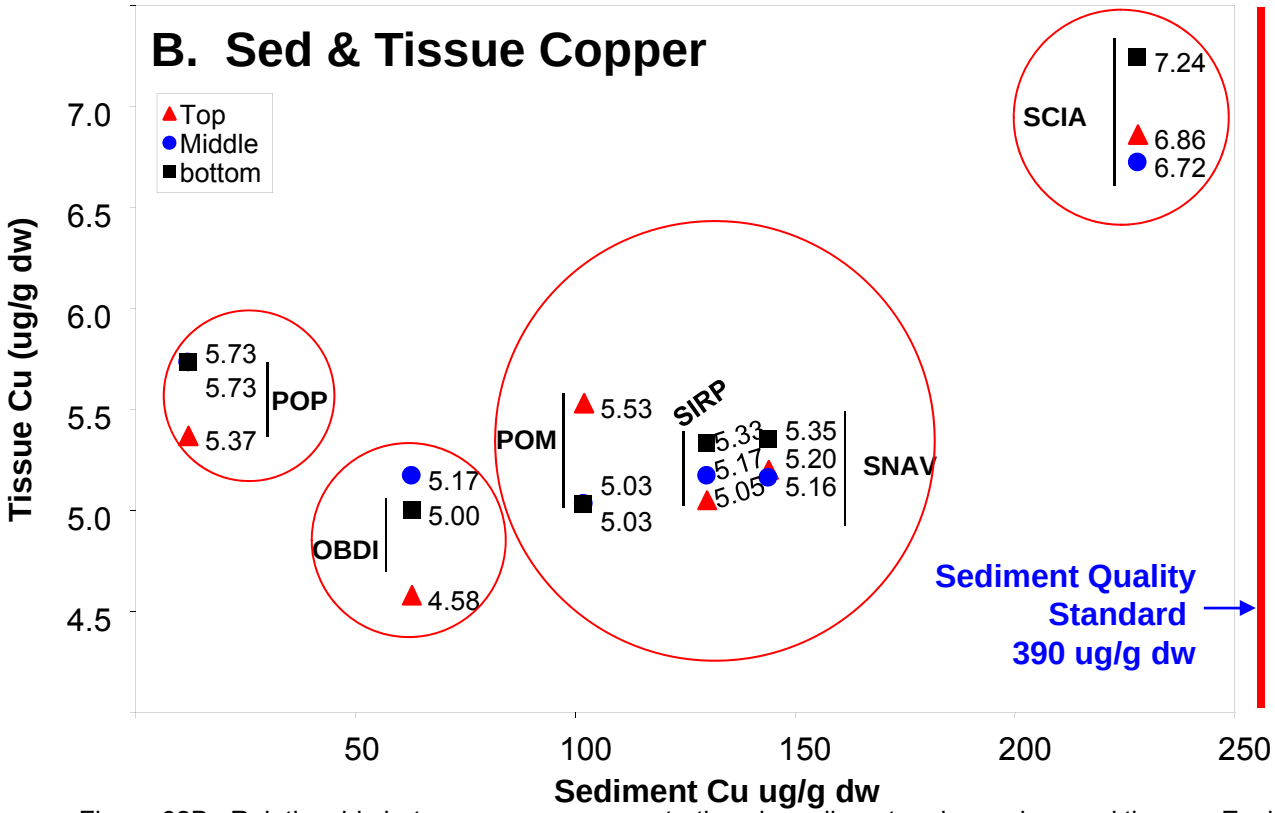



Figure 62B. Relationship between copper concentrations in sediment and caged mussel tissues. Each circle shows potentially similar groupings.

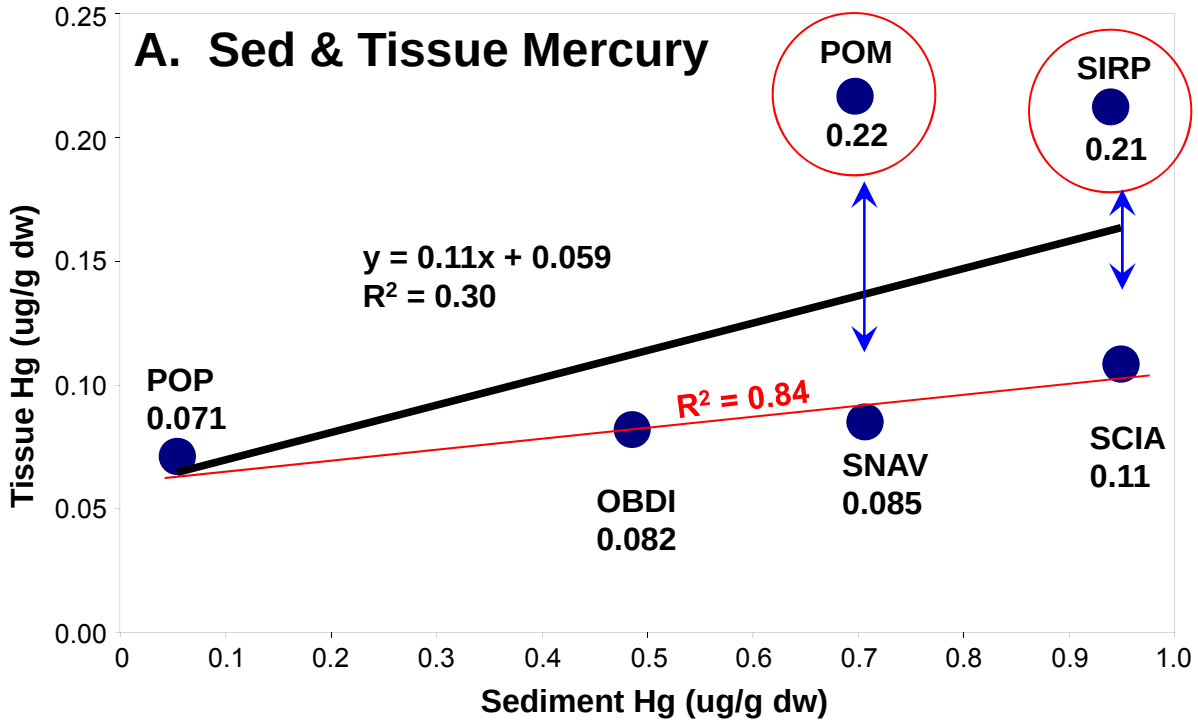



Figure 63A. Relationship between mean mercury concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

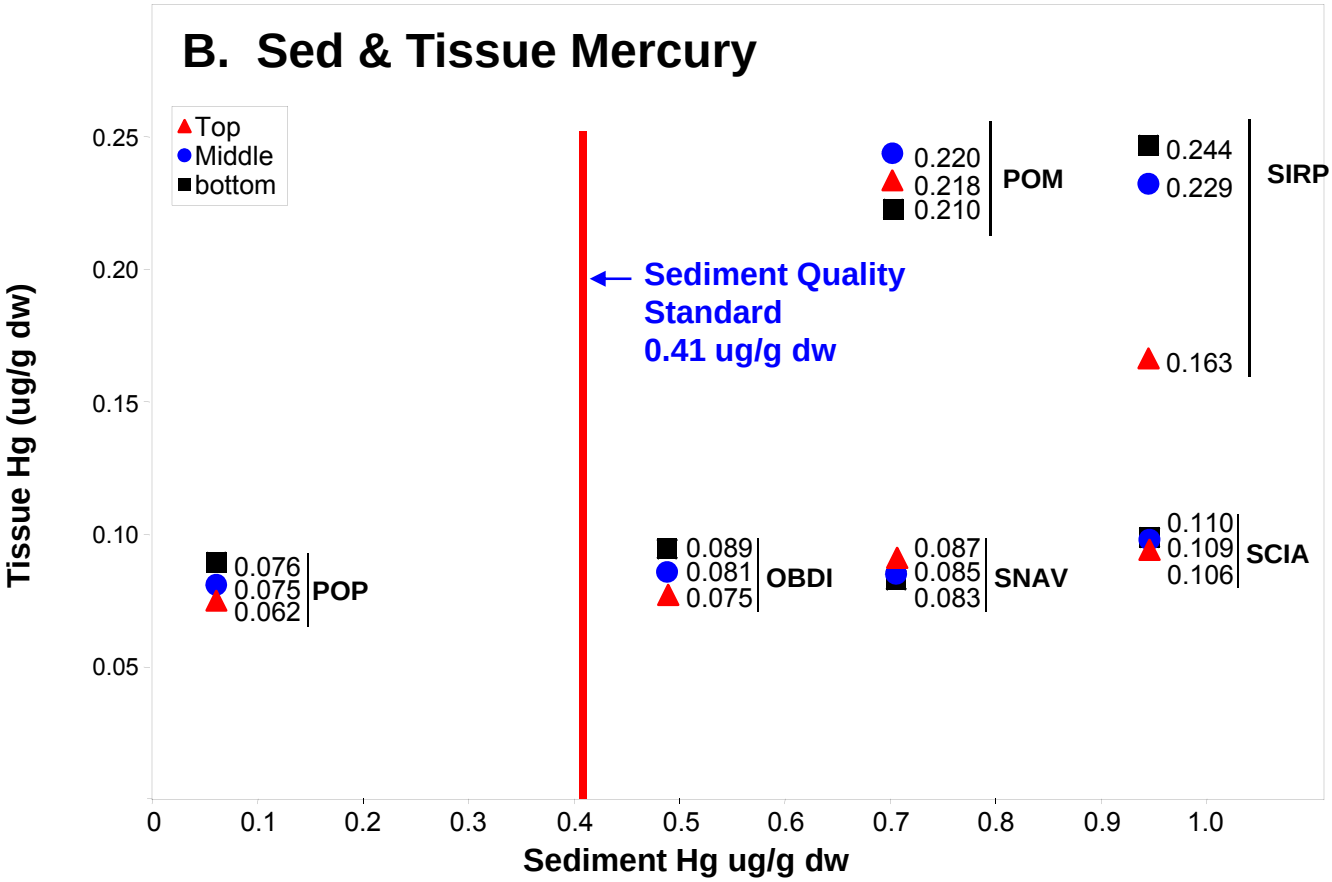



Figure 63B. Relationship between mercury concentrations in sediment and caged mussel tissues.

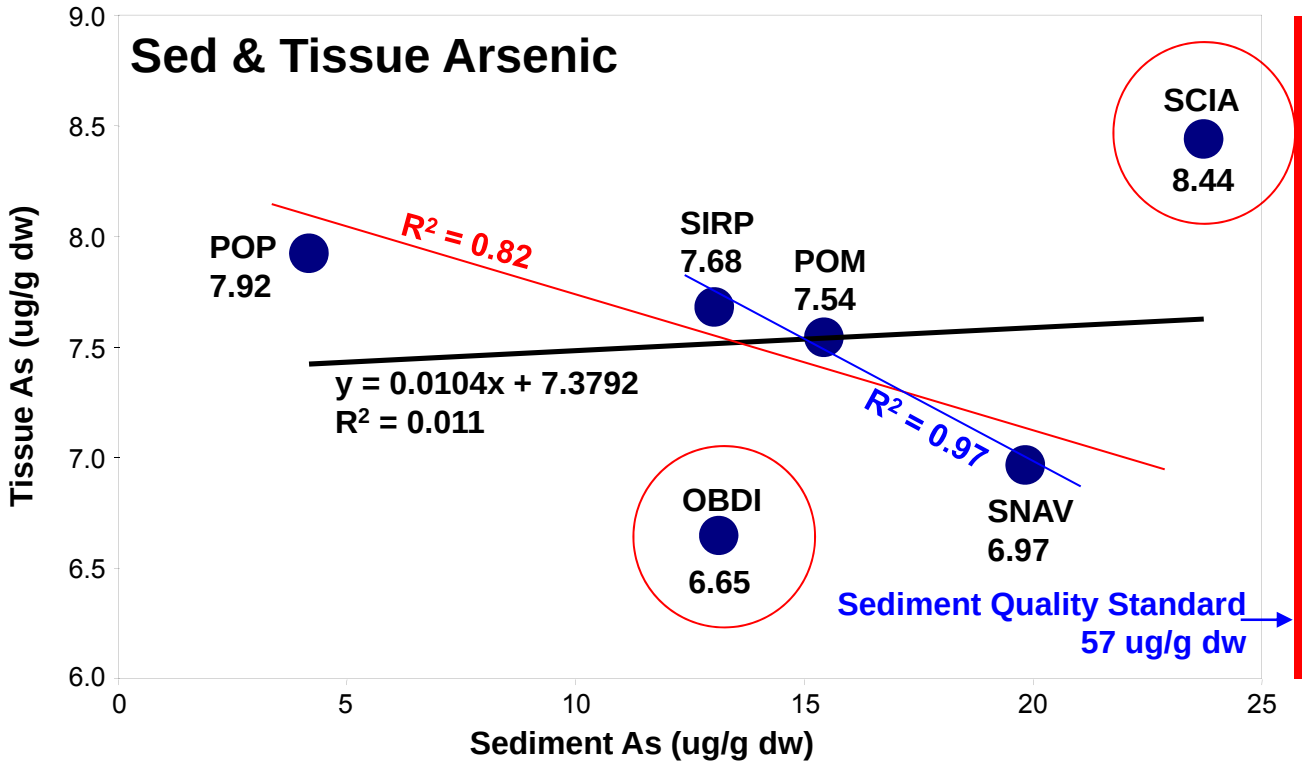



Figure 64. Relationship between mean arsenic concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

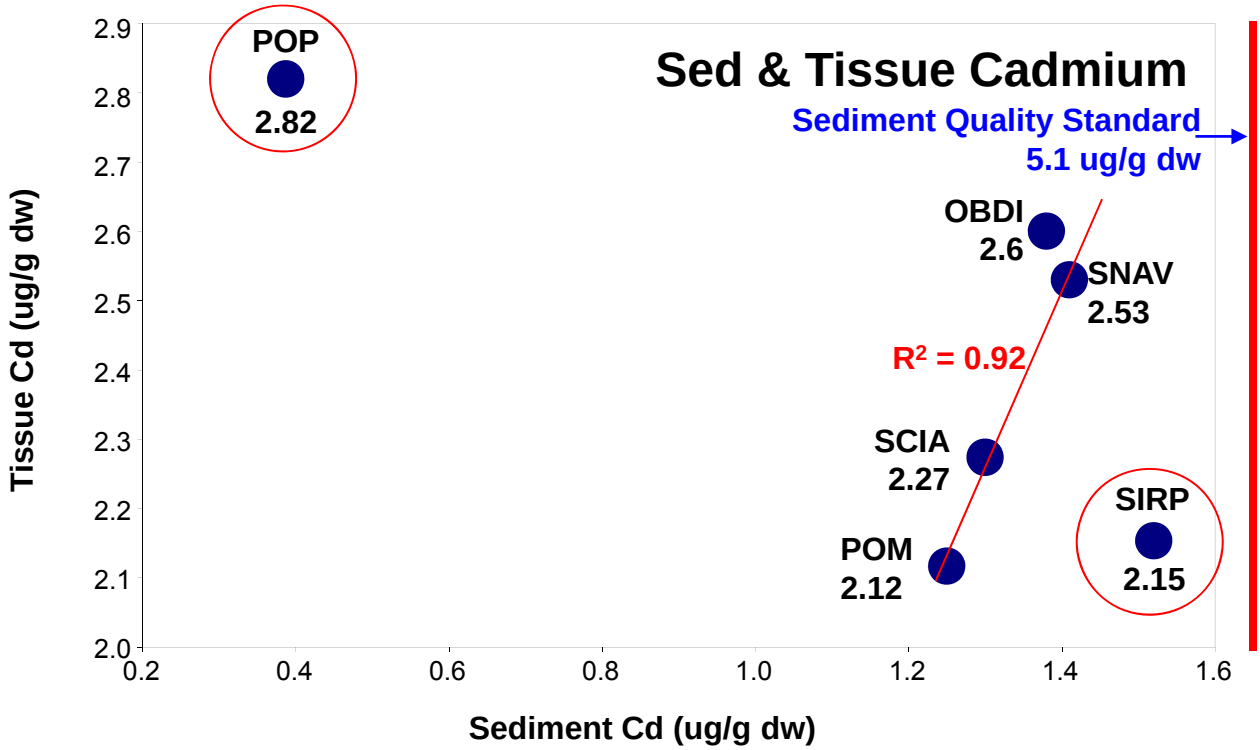



Figure 65. Relationship cadmium concentrations in sediment and caged mussel tissues. Possible outliers are circled.

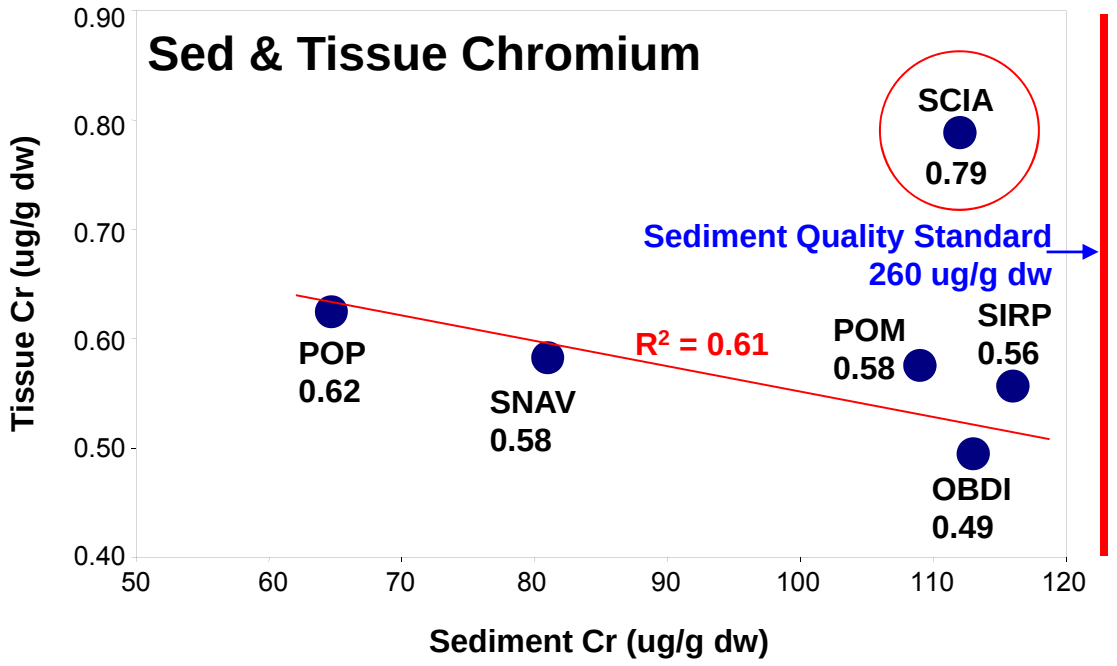



Figure 66. Relationship between mean chromium concentrations in sediment and caged mussel tissues. Sediment values are shown as ug/kg dry weight.

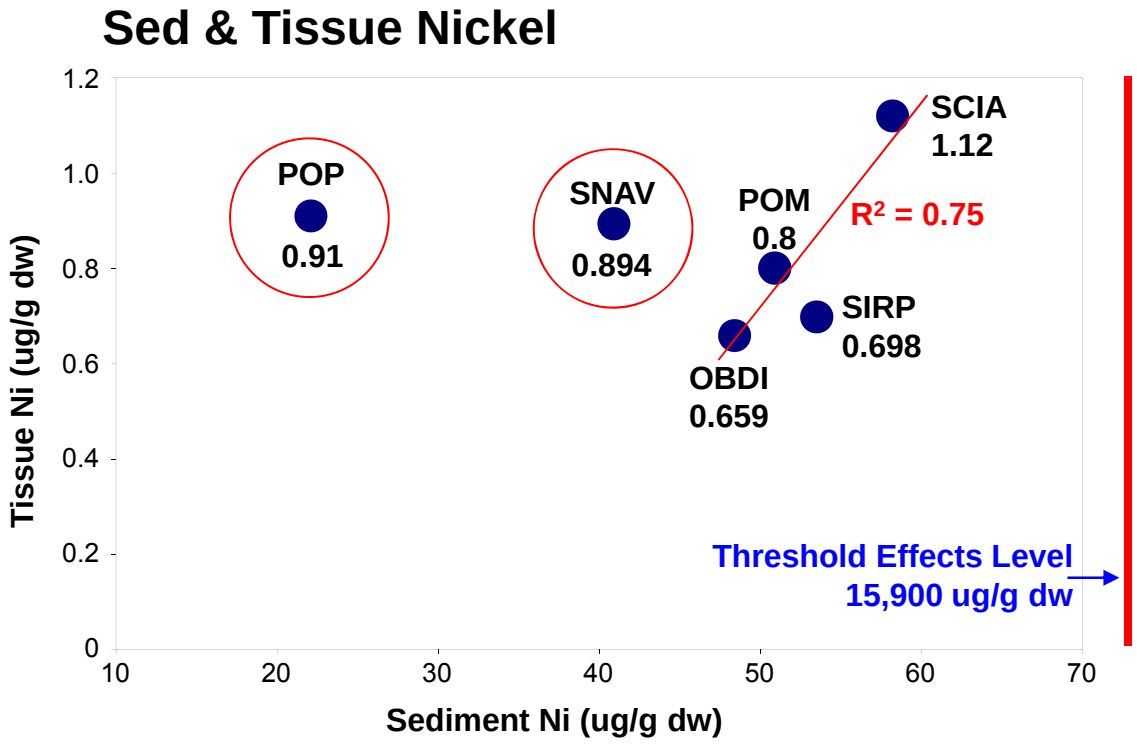



Figure 67. Relationship between nickel concentrations in sediment and caged mussel tissues. Possible outliers are circled.

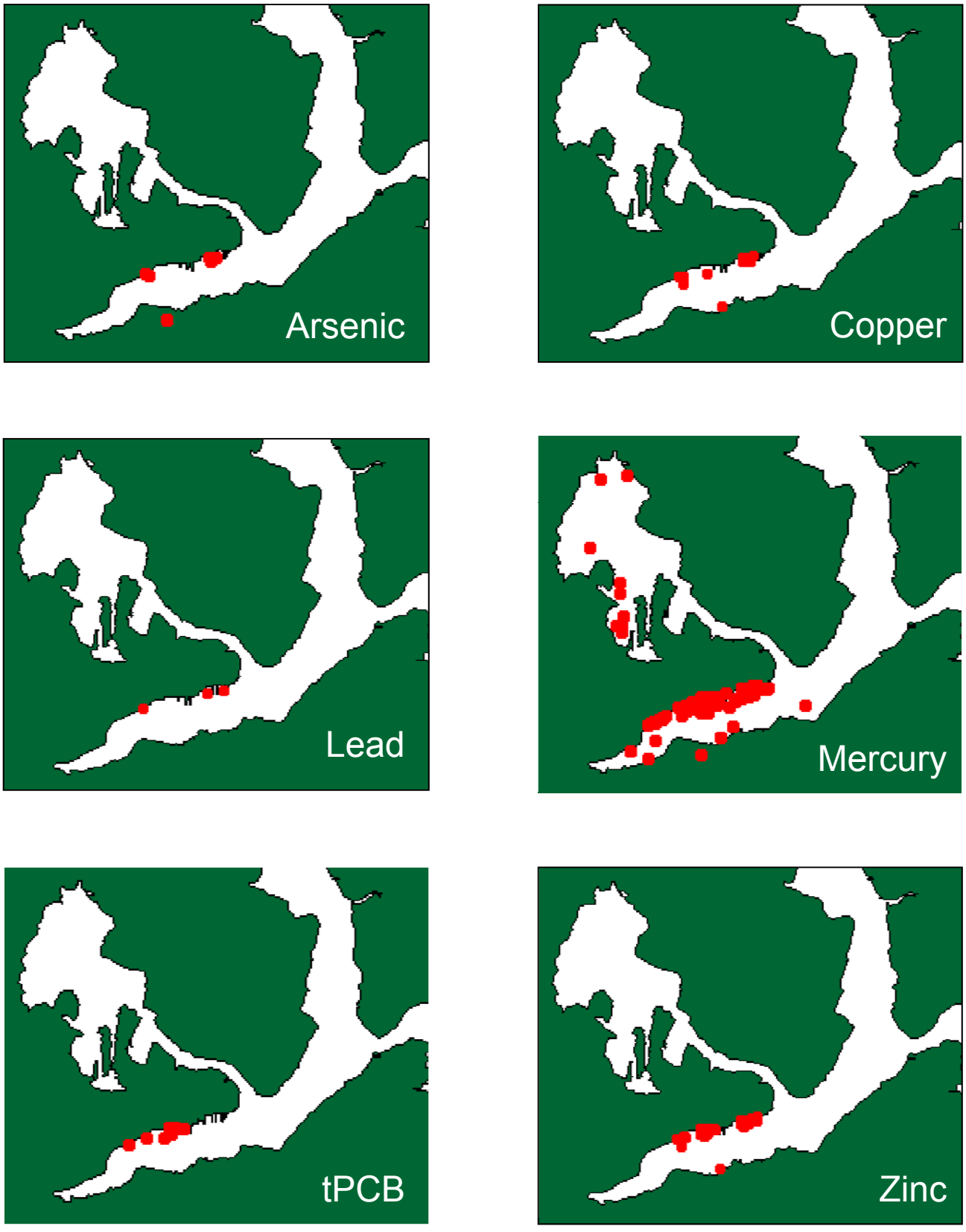



Figure 68. Sediment chemical exceedances from SEDQUAL data in 2000. (Courtesy K. Richter, SPAWAR)

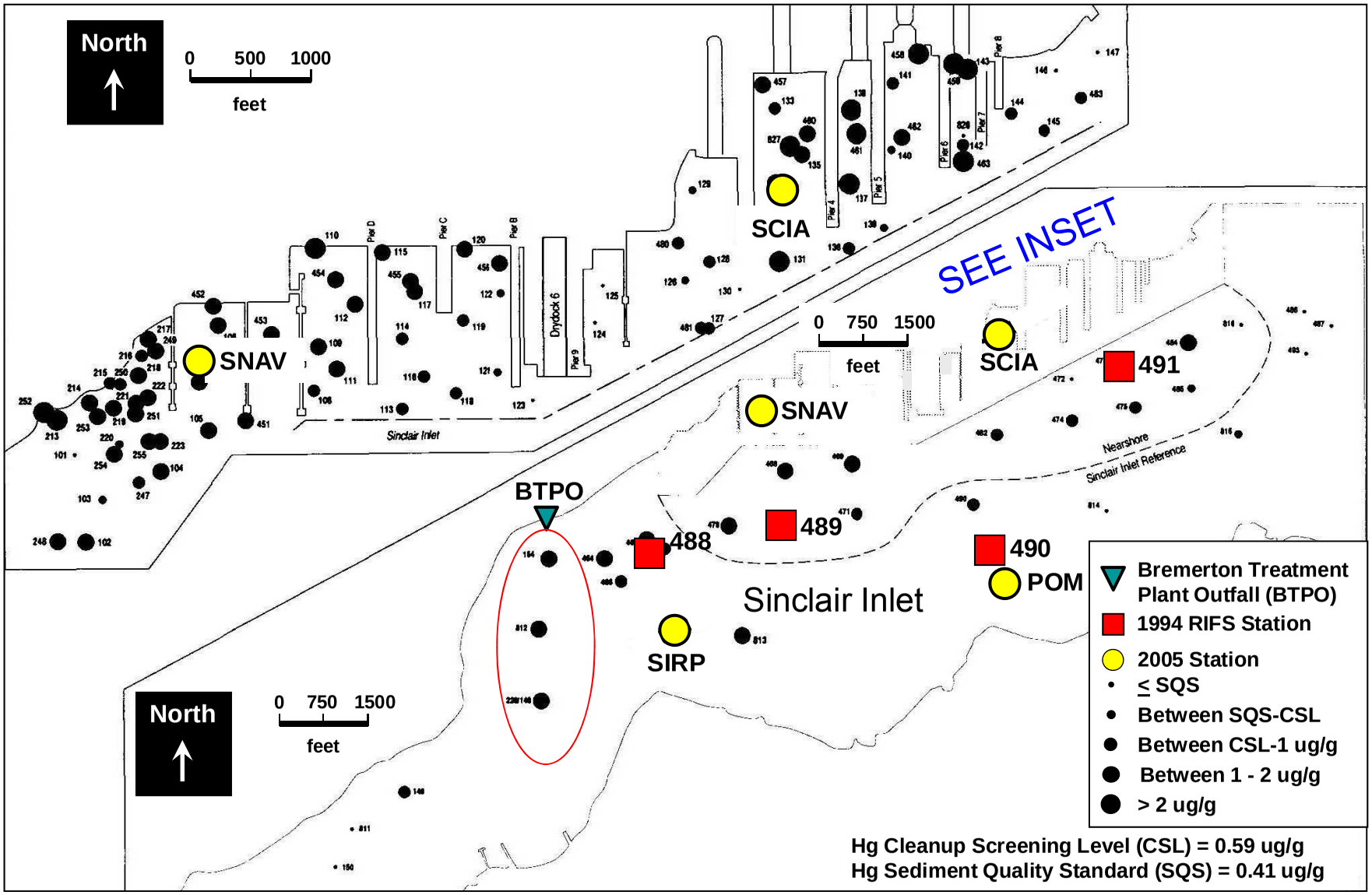



Figure 69. Sediment mercury exceedances from ROD. Also shown are 1994 RIFS and 2005 caged mussel stations.

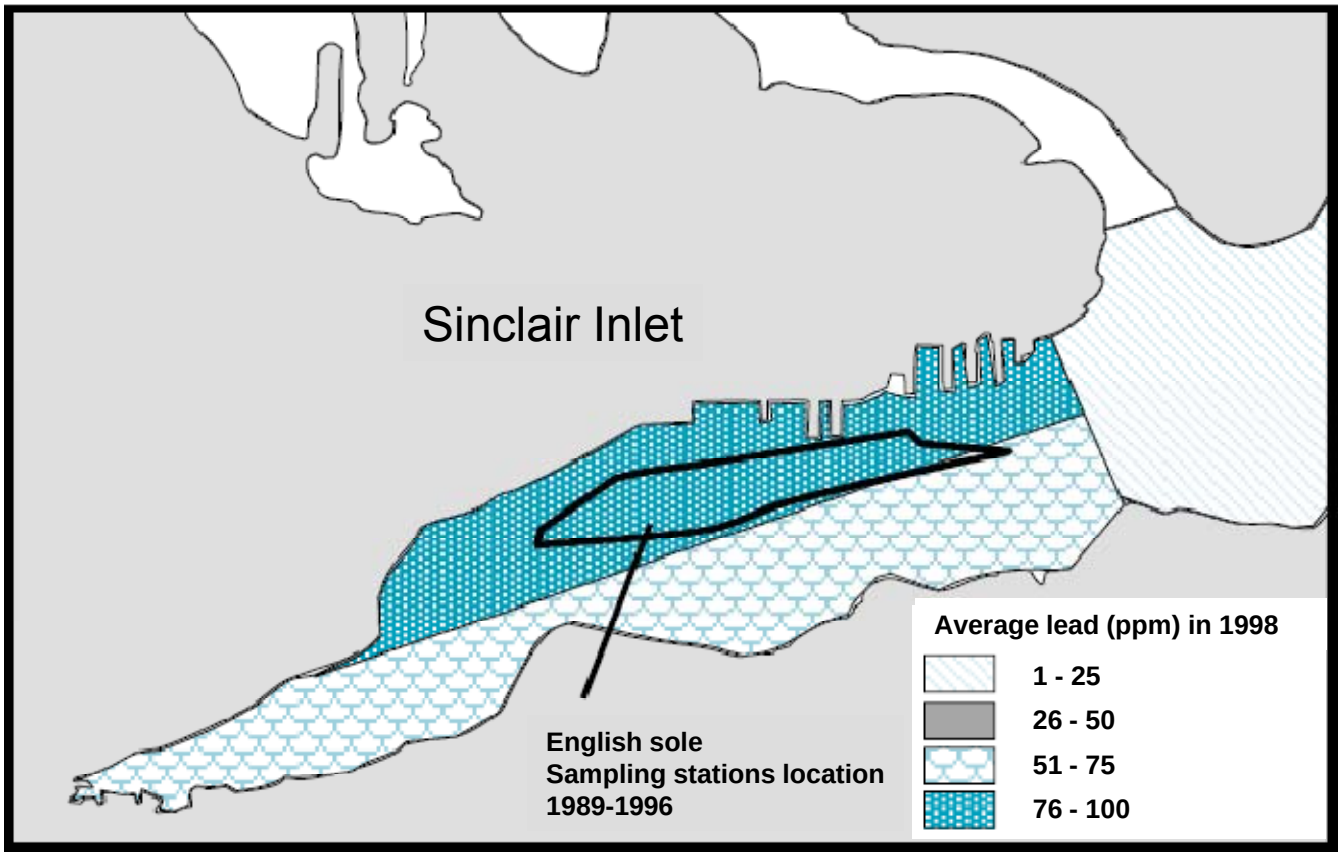



Figure 70. Sediment lead concentrations in Sinclair Inlet. 1998 Sediment Sampling Strata. (PSAMP 2000)

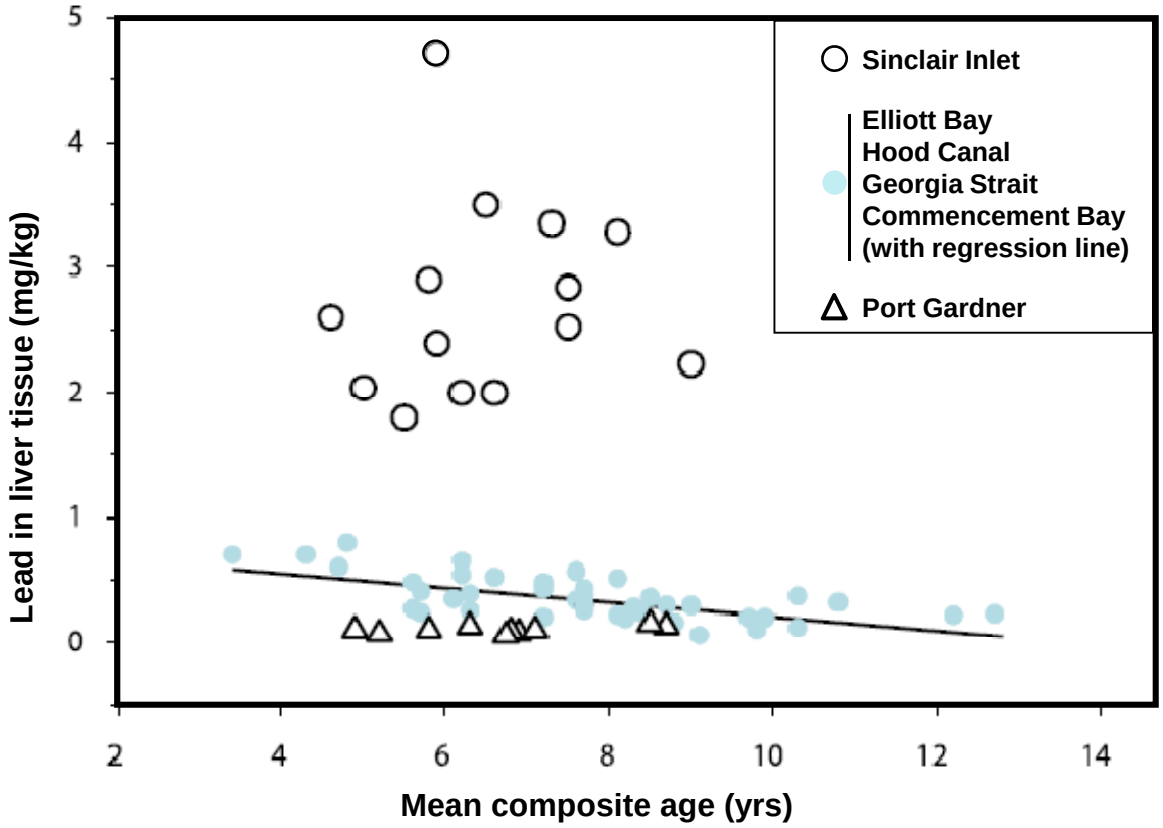



Figure 71. Lead concentration in English sole liver tissue from six Puget Sound locations.

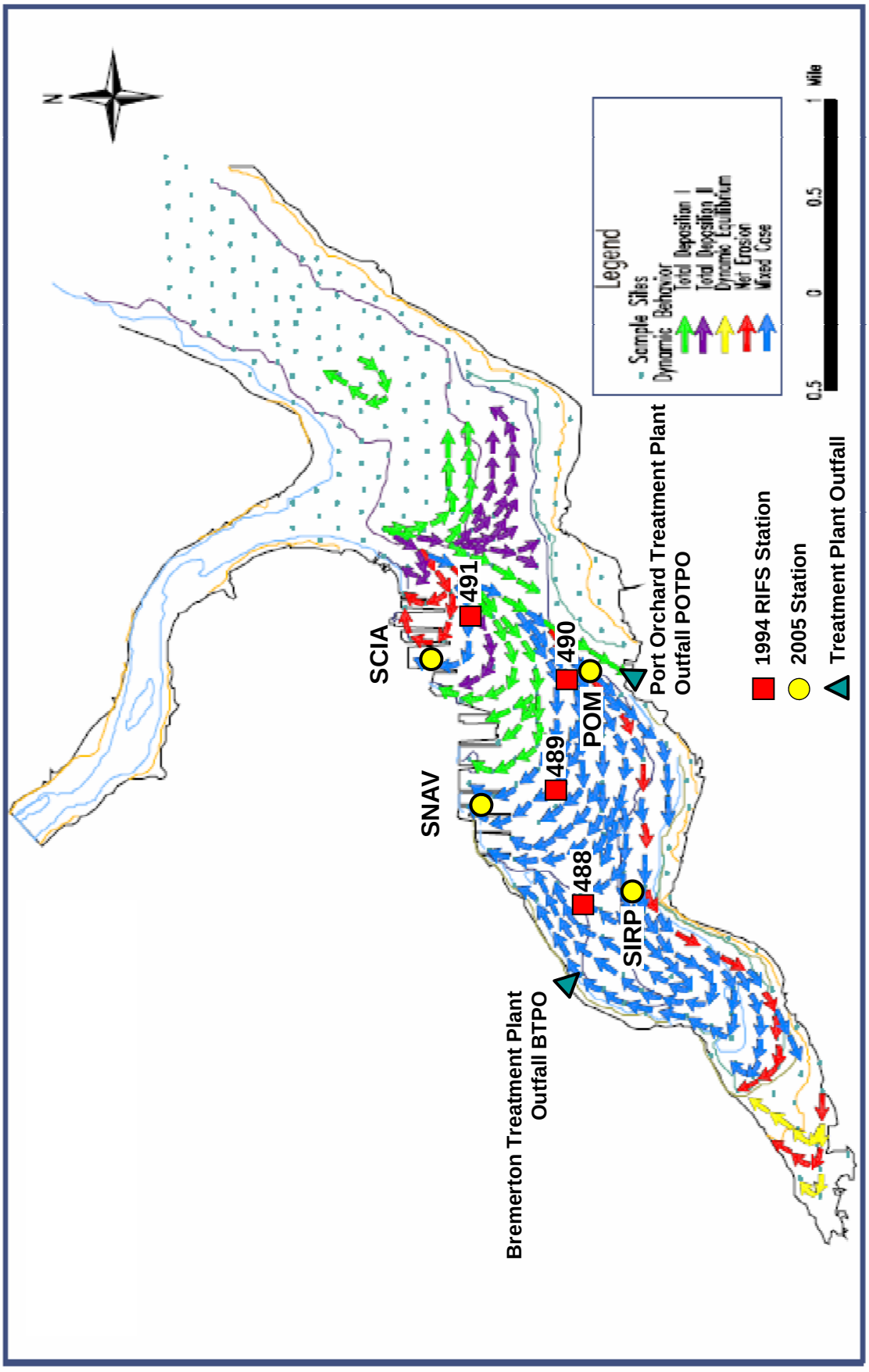



Figure 72. Sediment transport vectors for muds in Sinclair Inlet (McLaren 1998). Caged mussel stations are also shown.

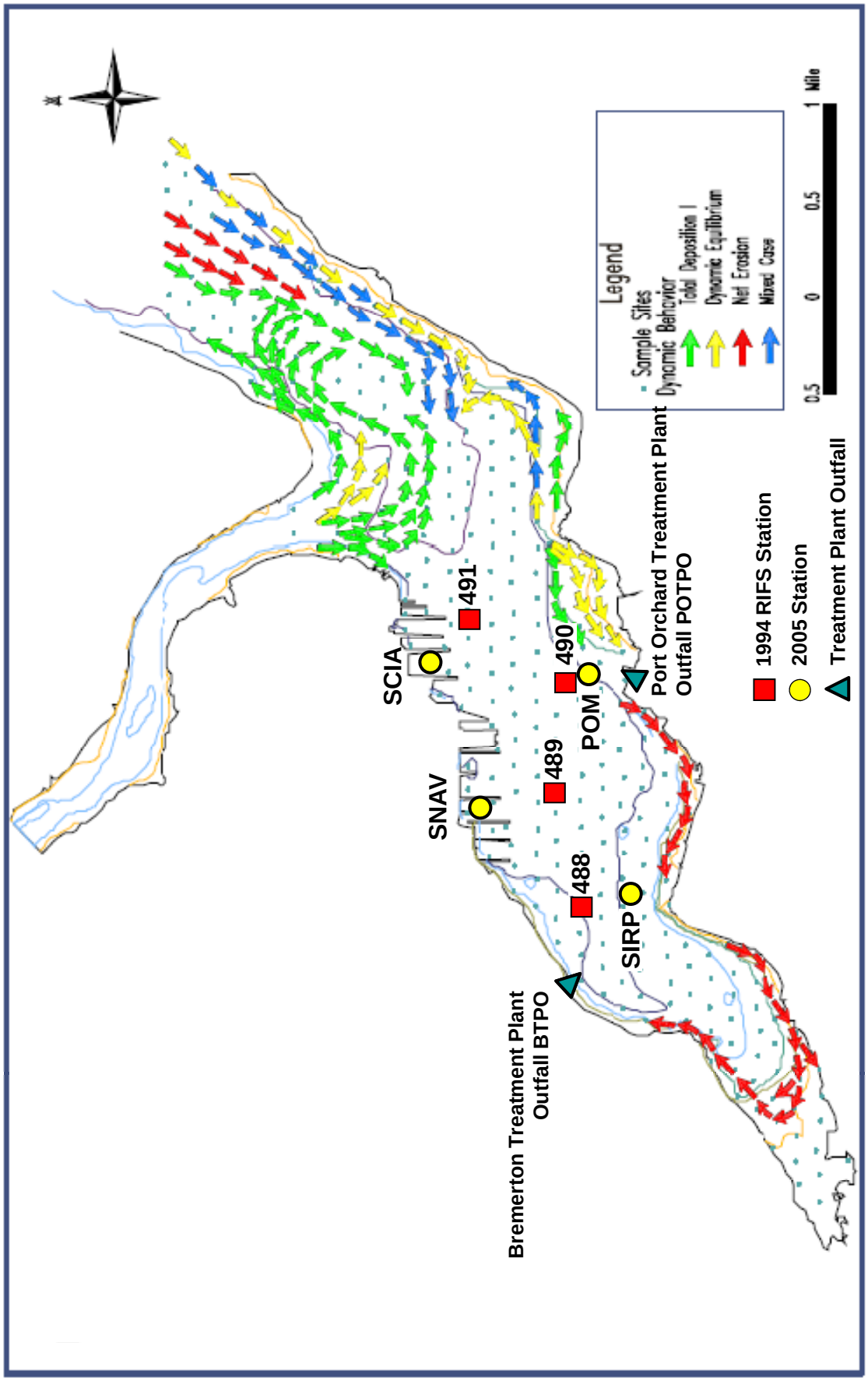



Figure 73. Sediment transport vectors for sands adjacent to Sinclair Inlet (McLaren 1998). Caged mussel stations are also shown.

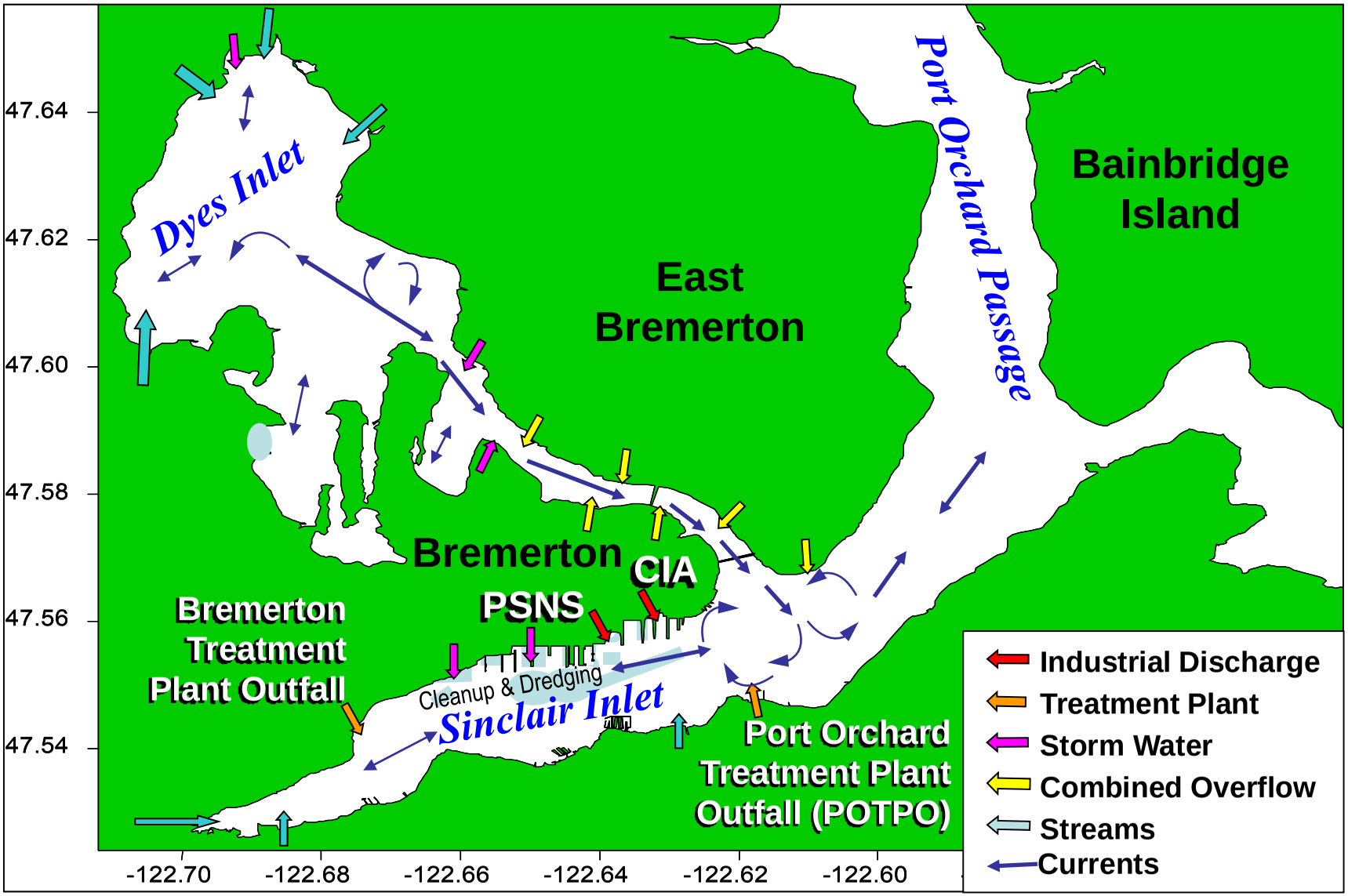



Figure 74 Mass balance conceptual model showing hypothetical industrial discharges, treatment plants, storm water, combined overflows, streams, and currents (Crecelius et al, 2004).

ENVVEST 2005 Caged Mussel Study:
Puget Sound Naval Shipyard & Intermediate Maintenance Facility

Using Caged Mussels to Characterize Exposure and Effects over Small Spatial Scales in Sinclair Inlet – A Risk Assessment-Based Approach

# APPENDICES

## Raw Mussel Growth Data
## Indigenous Mussel Data
## Water Temperature Data

## Beginnin-of-Test Whole Animal Wet Weight (g-wet) by Station

| | | | | | | | | | | Overall Mean |
|---|---|---|---|---|---|---|---|---|---|---|
| | mean | 12.14 | 12.12 | 12.13 | 12.32 | 12.10 | 12.13 | 12.15 | 12.07 | 12.15 |
| | min | 9.04 | 9.6 | 8.45 | 9.05 | 8.93 | 9.21 | 9.17 | 9.12 | 8.45 |
| | max | 15.16 | 15.94 | 15.34 | 16.41 | 15.96 | 15.33 | 15.53 | 15.84 | 16.41 |
| | stdev | 1.28 | 1.28 | 1.23 | 1.43 | 1.33 | 1.25 | 1.27 | 1.38 | 1.30 |
| | N | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 1344 |
| | 95 CI | 0.1929 | 0.1933 | 0.1861 | 0.2161 | 0.2009 | 0.1883 | 0.1921 | 0.2086 | 0.0698 |
| | | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | 3, 12, 20 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | T0 | |
| Replicate Cage #1 | 1 | 12.10 | 11.35 | 10.78 | 10.66 | 9.26 | 10.03 | 9.59 | 11.00 | |
| | 2 | 10.75 | 10.76 | 11.49 | 13.17 | 9.82 | 10.85 | 12.92 | 9.12 | |
| | 3 | 12.30 | 11.06 | 10.01 | 12.32 | 11.91 | 11.65 | 11.23 | 11.06 | |
| | 4 | 9.08 | 9.91 | 10.33 | 9.73 | 9.10 | 10.59 | 9.26 | 10.60 | |
| | 5 | 11.60 | 11.68 | 11.58 | 11.29 | 10.37 | 11.02 | 13.09 | 10.57 | |
| | 6 | 12.22 | 11.55 | 11.85 | 11.86 | 11.93 | 9.92 | 13.10 | 10.88 | |
| | 7 | 12.55 | 10.85 | 11.16 | 9.73 | 11.50 | 11.18 | 12.51 | 11.43 | |
| | 8 | 11.43 | 12.61 | 10.49 | 12.15 | 10.73 | 11.83 | 9.80 | 12.13 | |
| | 9 | 11.38 | 10.21 | 10.04 | 11.16 | 11.05 | 12.60 | 10.16 | 10.65 | |
| | 10 | 12.79 | 12.12 | 10.99 | 9.69 | 11.07 | 10.23 | 9.43 | 12.21 | |
| | 11 | 10.23 | 10.64 | 10.58 | 10.51 | 10.35 | 10.80 | 11.51 | 13.11 | |
| | 12 | 10.88 | 10.77 | 12.05 | 10.87 | 11.31 | 10.05 | 11.11 | 11.24 | |
| | 13 | 9.79 | 10.59 | 10.07 | 10.29 | 12.25 | 10.85 | 10.63 | 9.78 | |
| | 14 | 12.72 | 11.49 | 11.80 | 12.13 | 12.73 | 11.41 | 13.49 | 14.58 | |
| | 15 | 10.26 | 11.03 | 11.93 | 11.89 | 11.40 | 12.01 | 11.47 | 10.70 | |
| | 16 | 11.20 | 11.85 | 10.62 | 10.31 | 10.20 | 11.32 | 11.69 | 11.34 | |
| | 17 | 10.30 | 10.84 | 12.88 | 11.55 | 12.99 | 12.46 | 10.87 | 10.07 | |
| | 18 | 12.15 | 11.48 | 13.50 | 12.45 | 11.99 | 11.38 | 11.67 | 13.67 | |
| | 19 | 11.31 | 12.09 | 12.98 | 11.28 | 12.41 | 12.06 | 13.66 | 11.16 | |
| | 20 | 10.57 | 11.65 | 11.98 | 10.20 | 11.53 | 11.57 | 12.99 | 13.06 | |
| | 21 | 13.22 | 11.29 | 11.95 | 13.04 | 12.15 | 13.06 | 10.35 | 11.29 | |
| | 22 | 10.33 | 10.97 | 11.15 | 11.82 | 11.31 | 11.19 | 11.67 | 10.74 | |
| | 23 | 11.53 | 12.53 | 12.80 | 9.85 | 11.14 | 9.65 | 10.45 | 10.23 | |
| | 24 | 12.23 | 11.79 | 11.02 | 14.84 | 13.17 | 12.32 | 13.10 | 9.75 | |
| | 25 | 13.02 | 10.32 | 10.57 | 12.21 | 13.16 | 11.80 | 12.23 | 14.12 | |
| | 26 | 11.81 | 11.82 | 11.41 | 11.70 | 12.40 | 15.24 | 10.73 | 13.44 | |
| | 27 | 13.08 | 13.05 | 14.60 | 12.13 | 12.34 | 11.84 | 12.44 | 13.54 | |
| | 28 | 13.79 | 15.18 | 12.17 | 12.43 | 13.30 | 11.47 | 13.30 | 10.80 | |
| | 29 | 12.70 | 11.42 | 12.92 | 13.15 | 11.78 | 12.77 | 11.75 | 12.91 | |
| | 30 | 10.61 | 12.59 | 10.50 | 13.76 | 13.42 | 12.91 | 9.96 | 13.99 | |
| | 31 | 12.89 | 10.50 | 11.22 | 11.48 | 11.83 | 13.15 | 12.31 | 12.11 | |
| | 32 | 11.98 | 10.40 | 13.98 | 13.01 | 12.50 | 13.15 | 13.30 | 12.20 | |
| | 33 | 12.21 | 12.99 | 11.97 | 15.06 | 12.47 | 13.15 | 12.32 | 12.07 | |
| | 34 | 12.32 | 13.00 | 13.35 | 12.64 | 11.49 | 11.84 | 11.26 | 11.92 | |
| | 35 | 12.62 | 11.23 | 13.71 | 12.08 | 12.45 | 11.15 | 11.66 | 11.30 | |
| | 36 | 11.41 | 11.29 | 13.69 | 12.40 | 10.27 | 13.13 | 12.36 | 11.58 | |
| | 37 | 12.69 | 12.73 | 11.23 | 13.57 | 13.33 | 12.47 | 14.20 | 12.88 | |
| | 38 | 11.89 | 13.07 | 11.33 | 11.50 | 11.62 | 11.06 | 11.97 | 11.58 | |
| | 39 | 11.41 | 11.24 | 13.66 | 13.42 | 11.14 | 10.97 | 13.26 | 11.88 | |
| | 40 | 11.63 | 12.82 | 13.96 | 12.53 | 11.96 | 14.54 | 13.26 | 13.43 | |
| | 41 | 12.67 | 14.30 | 14.29 | 14.70 | 12.41 | 13.93 | 11.99 | 11.09 | |
| | 42 | 13.21 | 14.06 | 13.98 | 11.46 | 12.92 | 11.24 | 12.86 | 13.21 | |
| | 43 | 14.02 | 12.74 | 13.47 | 12.72 | 12.01 | 12.34 | 13.62 | 12.66 | |
| | 44 | 14.74 | 12.52 | 13.73 | 12.52 | 13.44 | 12.84 | 11.62 | 10.86 | |
| | 45 | 12.23 | 12.87 | 12.90 | 13.18 | 12.51 | 13.02 | 13.27 | 11.99 | |
| | 46 | 13.13 | 12.12 | 12.61 | 12.51 | 13.31 | 13.48 | 14.93 | 11.87 | |
| | 47 | 13.29 | 11.68 | 13.80 | 10.11 | 12.76 | 12.44 | 12.95 | 13.01 | |
| | 48 | 13.23 | 12.58 | 13.06 | 13.67 | 12.86 | 10.79 | 12.75 | 14.23 | |
| | 49 | 12.53 | 12.65 | 10.35 | 14.16 | 12.70 | 13.09 | 12.98 | 11.90 | |
| | 50 | 14.16 | 15.87 | 13.30 | 13.50 | 11.92 | 13.76 | 13.71 | 12.18 | |
| | 51 | 12.81 | 14.21 | 13.27 | 15.52 | 14.27 | 13.01 | 13.00 | 14.55 | |

# 2005 PSNS IMF Raw Mussel Growth Data

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 52 | 13.21 | 15.07 | 13.63 | 14.06 | 15.25 | 12.54 | 15.18 | 13.89 | |
| | 53 | 12.01 | 13.54 | 12.23 | 14.77 | 12.32 | 15.14 | 13.21 | 13.76 | |
| | 54 | 13.07 | 12.87 | 12.12 | 16.41 | 13.29 | 12.02 | 14.84 | 13.81 | |
| | 55 | 13.66 | 13.14 | 11.85 | 13.22 | 14.64 | 14.79 | 13.06 | 13.44 | |
| | 56 | 12.97 | 13.84 | 13.48 | 14.03 | 13.63 | 13.68 | 13.19 | 13.72 | |
| Replicate Cage #2 | 1 | 11.20 | 10.73 | 10.97 | 11.23 | 10.24 | 11.16 | 10.57 | 11.70 | |
| | 2 | 10.69 | 10.94 | 11.53 | 11.81 | 11.55 | 11.17 | 10.91 | 12.45 | |
| | 3 | 9.04 | 11.01 | 11.76 | 10.61 | 8.93 | 11.14 | 11.97 | 10.27 | |
| | 4 | 9.67 | 11.65 | 12.29 | 11.93 | 9.15 | 11.31 | 10.43 | 11.88 | |
| | 5 | 10.96 | 10.58 | 10.61 | 9.05 | 10.10 | 10.15 | 10.43 | 11.76 | |
| | 6 | 10.35 | 10.40 | 10.59 | 12.57 | 10.09 | 9.70 | 11.79 | 9.34 | |
| | 7 | 9.86 | 9.67 | 11.06 | 11.67 | 11.24 | 11.20 | 11.36 | 11.51 | |
| | 8 | 9.99 | 10.49 | 8.45 | 10.44 | 12.84 | 11.38 | 11.64 | 11.75 | |
| | 9 | 12.23 | 10.66 | 9.37 | 9.91 | 12.23 | 12.18 | 10.82 | 11.16 | |
| | 10 | 11.40 | 10.80 | 10.73 | 11.29 | 11.06 | 11.27 | 11.12 | 10.92 | |
| | 11 | 10.13 | 12.05 | 9.99 | 9.76 | 10.98 | 11.98 | 10.61 | 11.67 | |
| | 12 | 9.76 | 10.66 | 12.26 | 11.32 | 11.06 | 13.10 | 9.99 | 10.11 | |
| | 13 | 10.23 | 13.29 | 10.37 | 12.38 | 10.01 | 10.95 | 9.17 | 12.28 | |
| | 14 | 12.02 | 11.45 | 11.57 | 13.90 | 12.86 | 11.11 | 12.28 | 11.37 | |
| | 15 | 13.16 | 11.94 | 10.71 | 11.27 | 9.36 | 11.85 | 10.56 | 11.35 | |
| | 16 | 10.75 | 11.82 | 11.28 | 11.22 | 11.53 | 11.51 | 11.03 | 12.80 | |
| | 17 | 13.06 | 13.08 | 13.56 | 11.26 | 11.55 | 11.55 | 11.78 | 11.45 | |
| | 18 | 9.65 | 10.32 | 11.87 | 12.28 | 11.72 | 11.22 | 10.40 | 11.26 | |
| | 19 | 13.77 | 12.92 | 12.10 | 12.30 | 12.13 | 12.76 | 10.52 | 11.01 | |
| | 20 | 11.41 | 12.38 | 10.49 | 11.58 | 11.74 | 12.16 | 11.73 | 10.48 | |
| | 21 | 13.30 | 11.42 | 12.06 | 12.82 | 11.68 | 12.88 | 13.82 | 11.20 | |
| | 22 | 10.90 | 11.14 | 11.06 | 11.44 | 10.15 | 10.77 | 11.84 | 11.16 | |
| | 23 | 10.56 | 10.44 | 12.15 | 11.17 | 9.99 | 11.72 | 11.71 | 10.78 | |
| | 24 | 12.05 | 12.25 | 11.50 | 11.56 | 11.51 | 10.98 | 12.70 | 10.49 | |
| | 25 | 13.08 | 11.81 | 11.30 | 11.48 | 11.65 | 13.55 | 12.18 | 12.62 | |
| | 26 | 12.61 | 14.35 | 11.81 | 12.90 | 10.83 | 11.54 | 13.33 | 13.24 | |
| | 27 | 11.04 | 10.83 | 13.23 | 11.85 | 13.29 | 11.57 | 11.51 | 11.10 | |
| | 28 | 12.10 | 11.07 | 10.36 | 10.41 | 11.89 | 11.85 | 13.75 | 13.08 | |
| | 29 | 10.82 | 12.06 | 12.38 | 10.83 | 10.79 | 10.93 | 13.05 | 10.94 | |
| | 30 | 11.82 | 11.04 | 12.35 | 11.16 | 11.48 | 13.49 | 13.03 | 12.56 | |
| | 31 | 13.81 | 12.27 | 13.03 | 12.72 | 12.27 | 12.96 | 14.18 | 12.36 | |
| | 32 | 10.34 | 12.03 | 12.77 | 14.01 | 12.81 | 12.57 | 13.11 | 10.69 | |
| | 33 | 13.77 | 13.48 | 13.30 | 10.28 | 12.04 | 10.95 | 10.78 | 12.03 | |
| | 34 | 12.40 | 12.13 | 13.25 | 11.92 | 11.47 | 12.96 | 12.77 | 15.24 | |
| | 35 | 12.65 | 11.75 | 11.82 | 13.09 | 12.39 | 12.94 | 12.51 | 13.96 | |
| | 36 | 10.89 | 12.79 | 11.85 | 13.96 | 12.35 | 11.55 | 12.40 | 10.44 | |
| | 37 | 11.82 | 11.72 | 13.07 | 10.75 | 12.84 | 11.72 | 11.69 | 12.43 | |
| | 38 | 14.33 | 12.60 | 12.81 | 13.26 | 12.40 | 12.16 | 12.25 | 12.54 | |
| | 39 | 13.08 | 14.74 | 14.23 | 13.80 | 12.29 | 11.10 | 13.06 | 11.78 | |
| | 40 | 12.24 | 12.32 | 13.56 | 11.61 | 13.54 | 11.61 | 12.20 | 13.64 | |
| | 41 | 12.62 | 13.72 | 12.21 | 14.69 | 11.58 | 15.33 | 11.18 | 13.45 | |
| | 42 | 11.57 | 14.07 | 14.91 | 12.02 | 12.74 | 12.76 | 11.52 | 13.28 | |
| | 43 | 13.49 | 11.25 | 12.89 | 14.42 | 13.93 | 12.05 | 12.55 | 13.07 | |
| | 44 | 12.65 | 12.75 | 12.26 | 12.09 | 12.20 | 12.27 | 14.57 | 12.81 | |
| | 45 | 12.62 | 13.41 | 12.87 | 14.39 | 12.16 | 12.65 | 12.58 | 13.17 | |
| | 46 | 13.19 | 11.10 | 13.53 | 13.70 | 13.19 | 13.31 | 14.44 | 14.18 | |
| | 47 | 13.16 | 12.32 | 12.78 | 14.20 | 12.77 | 14.61 | 10.86 | 12.14 | |
| | 48 | 12.55 | 12.54 | 14.06 | 14.65 | 14.42 | 11.77 | 12.48 | 12.67 | |
| | 49 | 12.87 | 12.64 | 14.90 | 12.79 | 12.00 | 11.74 | 11.31 | 10.94 | |
| | 50 | 13.65 | 12.47 | 13.86 | 12.63 | 12.48 | 14.60 | 11.35 | 12.44 | |
| | 51 | 11.94 | 14.87 | 12.72 | 14.79 | 13.11 | 12.53 | 14.26 | 12.36 | |
| | 52 | 14.29 | 13.67 | 13.50 | 13.66 | 14.49 | 14.78 | 12.97 | 15.14 | |
| | 53 | 12.77 | 11.57 | 12.42 | 14.50 | 14.14 | 14.12 | 13.90 | 14.54 | |
| | 54 | 14.53 | 15.94 | 11.61 | 12.11 | 13.42 | 13.52 | 14.13 | 13.81 | |
| | 55 | 13.42 | 12.04 | 12.80 | 13.69 | 15.16 | 11.14 | 11.63 | 15.24 | |
| | 56 | 12.48 | 12.85 | 11.66 | 13.61 | 15.69 | 13.29 | 12.97 | 13.68 | |
| Replicate Cage #3 | 1 | 12.41 | 10.79 | 11.91 | 11.42 | 10.41 | 10.87 | 11.07 | 9.88 | |
| | 2 | 12.67 | 12.04 | 12.05 | 12.97 | 11.00 | 11.60 | 11.26 | 11.17 | |

# 2005 PSNS IMF Raw Mussel Growth Data

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 12.25 | 11.51 | 10.28 | 11.61 | 10.30 | 11.64 | 11.42 | 9.89 | |
| | 4 | 9.38 | 9.60 | 12.15 | 11.51 | 12.61 | 9.21 | 11.09 | 11.13 | |
| | 5 | 11.37 | 9.82 | 10.68 | 9.80 | 10.26 | 10.83 | 13.42 | 9.68 | |
| | 6 | 10.00 | 12.28 | 11.17 | 11.61 | 10.41 | 10.39 | 11.22 | 10.95 | |
| | 7 | 11.51 | 12.03 | 11.50 | 13.01 | 11.92 | 10.89 | 11.36 | 10.69 | |
| | 8 | 10.69 | 10.34 | 11.82 | 12.56 | 10.70 | 11.87 | 9.99 | 12.62 | |
| | 9 | 10.25 | 9.91 | 9.33 | 11.65 | 11.17 | 15.20 | 10.14 | 10.48 | |
| | 10 | 11.93 | 12.14 | 10.88 | 10.89 | 11.78 | 11.00 | 11.65 | 9.92 | |
| | 11 | 11.62 | 11.50 | 11.23 | 11.35 | 10.18 | 11.87 | 11.95 | 11.80 | |
| | 12 | 12.30 | 11.52 | 11.53 | 9.47 | 11.39 | 11.22 | 10.47 | 11.74 | |
| | 13 | 12.12 | 11.26 | 12.59 | 12.36 | 12.11 | 11.38 | 13.79 | 11.43 | |
| | 14 | 10.93 | 10.80 | 11.60 | 11.77 | 12.29 | 11.78 | 12.57 | 10.53 | |
| | 15 | 10.70 | 12.69 | 11.25 | 12.76 | 13.54 | 11.93 | 10.44 | 10.08 | |
| | 16 | 11.56 | 13.68 | 10.64 | 12.04 | 12.17 | 11.40 | 11.33 | 11.04 | |
| | 17 | 11.26 | 11.68 | 10.66 | 10.67 | 13.34 | 13.04 | 12.46 | 10.70 | |
| | 18 | 10.79 | 11.17 | 11.56 | 12.37 | 11.29 | 10.26 | 13.07 | 9.78 | |
| | 19 | 11.46 | 10.41 | 11.93 | 10.56 | 12.34 | 11.62 | 10.57 | 9.88 | |
| | 20 | 12.50 | 12.14 | 12.15 | 13.22 | 10.64 | 12.18 | 11.24 | 11.29 | |
| | 21 | 11.67 | 11.60 | 11.17 | 10.97 | 11.22 | 12.38 | 11.69 | 13.28 | |
| | 22 | 10.03 | 11.22 | 11.71 | 10.67 | 11.65 | 13.27 | 10.79 | 11.15 | |
| | 23 | 14.24 | 12.29 | 11.95 | 11.33 | 10.03 | 11.53 | 11.75 | 11.17 | |
| | 24 | 11.55 | 11.14 | 15.34 | 12.55 | 11.91 | 12.34 | 11.49 | 11.80 | |
| | 25 | 11.79 | 11.08 | 12.35 | 11.99 | 13.40 | 10.21 | 12.90 | 14.11 | |
| | 26 | 12.74 | 12.80 | 11.64 | 12.33 | 14.02 | 11.33 | 11.78 | 13.88 | |
| | 27 | 13.22 | 11.98 | 12.23 | 11.84 | 11.52 | 13.20 | 12.58 | 12.42 | |
| | 28 | 13.11 | 12.18 | 11.69 | 13.74 | 10.44 | 12.66 | 9.86 | 11.72 | |
| | 29 | 12.49 | 12.20 | 10.63 | 10.85 | 13.45 | 11.93 | 13.08 | 12.53 | |
| | 30 | 12.62 | 13.73 | 12.15 | 12.61 | 11.52 | 11.97 | 11.85 | 10.30 | |
| | 31 | 11.56 | 13.15 | 12.47 | 12.07 | 14.96 | 12.29 | 11.29 | 12.95 | |
| | 32 | 13.99 | 12.37 | 12.67 | 12.32 | 11.45 | 13.05 | 11.70 | 12.06 | |
| | 33 | 13.21 | 12.38 | 13.68 | 11.58 | 13.85 | 12.59 | 11.25 | 15.84 | |
| | 34 | 10.65 | 12.96 | 12.76 | 9.87 | 11.59 | 11.86 | 12.34 | 12.94 | |
| | 35 | 15.16 | 12.27 | 13.60 | 14.18 | 14.09 | 10.70 | 12.22 | 12.10 | |
| | 36 | 12.43 | 12.21 | 11.32 | 11.77 | 11.72 | 13.34 | 12.67 | 10.07 | |
| | 37 | 12.83 | 14.63 | 11.47 | 11.85 | 12.86 | 12.04 | 14.34 | 12.12 | |
| | 38 | 13.41 | 11.89 | 12.06 | 14.43 | 13.45 | 11.97 | 13.11 | 12.27 | |
| | 39 | 11.13 | 13.40 | 12.89 | 12.87 | 11.83 | 11.96 | 12.98 | 13.09 | |
| | 40 | 12.30 | 12.24 | 13.11 | 12.57 | 11.48 | 13.23 | 12.21 | 13.44 | |
| | 41 | 11.78 | 12.28 | 12.50 | 12.91 | 11.36 | 13.40 | 12.75 | 13.08 | |
| | 42 | 11.83 | 10.99 | 13.01 | 12.03 | 12.08 | 11.57 | 14.06 | 14.77 | |
| | 43 | 12.66 | 12.51 | 12.15 | 13.20 | 12.77 | 13.17 | 12.24 | 14.18 | |
| | 44 | 11.53 | 12.20 | 10.19 | 12.36 | 13.25 | 12.36 | 13.07 | 12.34 | |
| | 45 | 13.65 | 11.94 | 13.37 | 11.73 | 12.77 | 11.31 | 12.52 | 12.71 | |
| | 46 | 13.84 | 11.73 | 13.03 | 13.61 | 12.53 | 10.92 | 12.57 | 11.67 | |
| | 47 | 13.17 | 13.48 | 11.97 | 12.76 | 11.95 | 10.26 | 12.96 | 14.03 | |
| | 48 | 14.21 | 11.95 | 10.59 | 13.35 | 11.36 | 12.36 | 12.49 | 10.76 | |
| | 49 | 13.22 | 12.35 | 12.56 | 13.86 | 11.86 | 12.36 | 13.47 | 11.48 | |
| | 50 | 13.22 | 14.23 | 12.94 | 12.87 | 14.80 | 13.85 | 13.79 | 13.79 | |
| | 51 | 15.13 | 15.53 | 13.27 | 16.14 | 12.31 | 12.30 | 12.11 | 11.99 | |
| | 52 | 12.77 | 12.40 | 13.85 | 13.63 | 13.70 | 15.14 | 13.31 | 12.70 | |
| | 53 | 14.00 | 15.19 | 13.58 | 14.71 | 14.16 | 14.00 | 14.38 | 12.47 | |
| | 54 | 13.67 | 11.85 | 13.58 | 15.75 | 15.96 | 15.25 | 11.94 | 12.61 | |
| | 55 | 12.78 | 13.56 | 12.41 | 12.49 | 12.82 | 14.18 | 15.53 | 12.15 | |
| | 56 | 13.72 | 14.61 | 13.79 | 13.80 | 13.81 | 13.44 | 12.59 | 14.90 | |

## Beginnin-of-Test Shell Length (mm) by Station

| | | | | | | | | | | Overall Mean |
|---|---|---|---|---|---|---|---|---|---|---|
| | mean | 51.34 | 51.29 | 51.22 | 51.34 | 51.16 | 51.23 | 51.31 | 51.24 | 51.27 |
| | min | 49.01 | 49.01 | 49.02 | 49 | 49 | 49 | 49.03 | 49.01 | 49 |
| | max | 53.97 | 53.8 | 53.81 | 53.89 | 53.86 | 53.87 | 53.92 | 53.92 | 53.97 |
| | stdev | 1.37 | 1.35 | 1.38 | 1.34 | 1.33 | 1.28 | 1.36 | 1.30 | 1.34 |
| | N | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 168 | 1344 |
| | 95 CI | 0.2073 | 0.2038 | 0.2080 | 0.2025 | 0.2016 | 0.1942 | 0.2053 | 0.1971 | 0.0715 |
| | | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | 3, 12, 20 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | T0 | |
| Replicate Cage #1 | 1 | 50.14 | 49.25 | 49.54 | 49.51 | 49.03 | 49.95 | 49.28 | 49.58 | |
| | 2 | 49.26 | 49.11 | 49.08 | 51.63 | 49.65 | 49.52 | 49.76 | 49.27 | |
| | 3 | 50.24 | 49.03 | 49.17 | 49.70 | 51.44 | 49.93 | 49.49 | 49.97 | |
| | 4 | 49.04 | 49.38 | 49.28 | 49.61 | 49.04 | 50.12 | 49.67 | 49.82 | |
| | 5 | 49.74 | 49.77 | 49.80 | 49.49 | 49.01 | 49.24 | 49.28 | 49.04 | |
| | 6 | 49.69 | 49.85 | 49.51 | 49.15 | 49.25 | 49.07 | 50.87 | 49.68 | |
| | 7 | 49.80 | 49.14 | 49.98 | 49.28 | 49.56 | 49.73 | 49.95 | 49.80 | |
| | 8 | 50.07 | 49.89 | 49.03 | 50.05 | 49.94 | 49.18 | 49.26 | 49.29 | |
| | 9 | 49.48 | 49.01 | 49.15 | 50.20 | 49.05 | 52.26 | 49.67 | 49.02 | |
| | 10 | 49.31 | 50.08 | 49.03 | 49.57 | 49.38 | 49.50 | 49.06 | 49.91 | |
| | 11 | 49.08 | 49.66 | 49.36 | 49.12 | 49.38 | 49.72 | 49.36 | 50.51 | |
| | 12 | 49.47 | 49.48 | 49.08 | 49.19 | 49.46 | 49.20 | 49.03 | 49.50 | |
| | 13 | 49.30 | 49.60 | 49.53 | 49.00 | 49.64 | 49.85 | 49.40 | 49.61 | |
| | 14 | 49.61 | 49.83 | 51.02 | 49.87 | 50.03 | 50.40 | 49.69 | 51.14 | |
| | 15 | 50.67 | 50.51 | 50.20 | 50.68 | 50.57 | 50.43 | 52.66 | 50.49 | |
| | 16 | 50.32 | 49.99 | 50.69 | 49.77 | 50.58 | 50.46 | 50.63 | 50.18 | |
| | 17 | 50.93 | 50.14 | 50.69 | 50.70 | 50.75 | 50.39 | 49.83 | 49.87 | |
| | 18 | 51.28 | 50.55 | 50.48 | 50.33 | 50.22 | 49.54 | 50.32 | 50.04 | |
| | 19 | 49.88 | 50.02 | 50.64 | 50.63 | 50.84 | 50.36 | 50.03 | 50.99 | |
| | 20 | 50.18 | 50.78 | 49.39 | 50.34 | 50.60 | 49.79 | 50.56 | 50.79 | |
| | 21 | 50.53 | 50.06 | 50.34 | 49.90 | 50.48 | 50.47 | 50.54 | 50.47 | |
| | 22 | 50.52 | 51.15 | 50.40 | 50.61 | 49.60 | 50.27 | 50.47 | 50.29 | |
| | 23 | 50.72 | 50.65 | 51.01 | 50.04 | 49.20 | 50.34 | 50.70 | 50.79 | |
| | 24 | 50.01 | 50.34 | 50.65 | 51.57 | 50.50 | 50.50 | 50.96 | 50.21 | |
| | 25 | 50.61 | 50.31 | 49.69 | 50.00 | 49.93 | 50.56 | 49.97 | 50.73 | |
| | 26 | 52.28 | 51.38 | 50.74 | 51.01 | 51.42 | 51.64 | 50.36 | 51.00 | |
| | 27 | 51.32 | 51.98 | 52.93 | 51.45 | 51.26 | 50.65 | 50.82 | 51.39 | |
| | 28 | 51.65 | 51.92 | 51.55 | 51.54 | 51.47 | 51.71 | 51.90 | 49.91 | |
| | 29 | 51.56 | 51.32 | 51.86 | 51.11 | 50.70 | 50.98 | 50.84 | 51.31 | |
| | 30 | 51.22 | 51.62 | 50.67 | 51.67 | 52.33 | 51.18 | 51.30 | 52.24 | |
| | 31 | 51.01 | 50.99 | 51.86 | 51.52 | 51.04 | 51.37 | 51.98 | 51.29 | |
| | 32 | 51.51 | 50.72 | 51.88 | 52.40 | 51.65 | 50.81 | 51.69 | 51.44 | |
| | 33 | 51.56 | 51.71 | 51.35 | 51.97 | 51.48 | 51.58 | 51.09 | 51.50 | |
| | 34 | 51.80 | 51.58 | 51.36 | 51.49 | 51.34 | 51.86 | 51.41 | 51.25 | |
| | 35 | 51.54 | 51.45 | 50.85 | 50.95 | 50.91 | 50.89 | 51.11 | 50.92 | |
| | 36 | 51.79 | 51.24 | 52.82 | 50.87 | 50.93 | 51.46 | 51.34 | 51.53 | |
| | 37 | 51.99 | 51.33 | 51.30 | 51.87 | 51.25 | 51.73 | 51.47 | 51.49 | |
| | 38 | 50.62 | 51.47 | 51.04 | 50.97 | 51.16 | 51.11 | 51.32 | 51.31 | |
| | 39 | 51.77 | 50.96 | 50.70 | 51.03 | 51.65 | 51.18 | 51.78 | 51.36 | |
| | 40 | 51.36 | 52.27 | 52.50 | 52.17 | 51.49 | 52.04 | 52.16 | 52.93 | |
| | 41 | 51.95 | 52.65 | 52.08 | 52.50 | 53.52 | 52.75 | 51.87 | 52.14 | |
| | 42 | 52.80 | 51.92 | 51.94 | 50.80 | 52.60 | 52.41 | 52.05 | 52.23 | |
| | 43 | 52.22 | 52.96 | 53.12 | 52.00 | 52.24 | 51.89 | 52.74 | 52.25 | |
| | 44 | 52.77 | 51.76 | 51.44 | 52.12 | 52.14 | 52.50 | 51.29 | 52.08 | |
| | 45 | 51.77 | 52.36 | 51.70 | 52.26 | 52.00 | 52.40 | 52.71 | 51.84 | |
| | 46 | 52.03 | 51.55 | 52.74 | 51.91 | 52.47 | 53.02 | 53.26 | 52.59 | |
| | 47 | 52.58 | 52.06 | 52.02 | 51.87 | 52.53 | 52.43 | 51.84 | 52.19 | |
| | 48 | 52.19 | 52.36 | 51.93 | 52.41 | 52.46 | 51.85 | 52.88 | 52.60 | |
| | 49 | 52.27 | 52.10 | 52.10 | 52.81 | 52.76 | 52.06 | 52.50 | 52.05 | |
| | 50 | 52.46 | 52.82 | 52.95 | 53.20 | 52.86 | 53.30 | 53.04 | 52.13 | |
| | 51 | 53.07 | 53.39 | 52.85 | 53.66 | 53.48 | 52.67 | 53.64 | 52.85 | |
| | 52 | 53.80 | 53.54 | 53.78 | 53.56 | 53.70 | 53.43 | 53.84 | 53.25 | |
| | 53 | 53.37 | 53.30 | 53.56 | 53.32 | 53.86 | 53.65 | 53.15 | 53.78 | |
| | 54 | 53.18 | 53.80 | 53.02 | 53.56 | 53.12 | 52.55 | 53.92 | 52.68 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 55 | 53.13 | 53.68 | 52.56 | 53.01 | 53.03 | 53.35 | 53.10 | 53.51 | |
| | 56 | 52.89 | 53.63 | 53.47 | 53.67 | 52.99 | 53.06 | 53.34 | 53.50 | |
| Replicate Cage #2 | 1 | 50.10 | 49.65 | 49.02 | 49.58 | 49.73 | 49.39 | 49.56 | 49.96 | |
| | 2 | 49.28 | 49.18 | 49.23 | 49.01 | 50.12 | 49.60 | 49.79 | 49.03 | |
| | 3 | 49.59 | 49.84 | 49.72 | 49.97 | 49.09 | 50.90 | 50.98 | 49.12 | |
| | 4 | 49.20 | 49.50 | 50.67 | 49.14 | 49.69 | 49.84 | 49.15 | 49.20 | |
| | 5 | 49.36 | 50.12 | 49.33 | 49.09 | 49.45 | 49.08 | 49.20 | 50.75 | |
| | 6 | 49.19 | 50.20 | 49.31 | 50.29 | 49.56 | 49.19 | 49.51 | 50.06 | |
| | 7 | 49.40 | 50.72 | 49.03 | 49.46 | 49.67 | 49.36 | 49.77 | 49.41 | |
| | 8 | 49.34 | 50.21 | 49.60 | 49.10 | 49.05 | 49.61 | 49.43 | 50.20 | |
| | 9 | 49.52 | 49.04 | 49.10 | 49.32 | 50.45 | 50.24 | 49.84 | 49.66 | |
| | 10 | 49.27 | 50.19 | 50.02 | 49.78 | 49.49 | 49.30 | 49.22 | 49.44 | |
| | 11 | 49.92 | 52.13 | 49.71 | 49.13 | 49.12 | 49.00 | 49.94 | 49.51 | |
| | 12 | 49.80 | 49.57 | 49.36 | 49.71 | 50.18 | 50.08 | 49.10 | 49.54 | |
| | 13 | 49.67 | 50.66 | 49.75 | 50.84 | 49.66 | 49.73 | 50.10 | 51.77 | |
| | 14 | 51.05 | 51.08 | 50.37 | 50.97 | 50.23 | 49.79 | 50.46 | 50.55 | |
| | 15 | 50.26 | 50.62 | 50.09 | 50.70 | 49.48 | 50.29 | 50.02 | 50.21 | |
| | 16 | 51.37 | 50.48 | 50.80 | 50.33 | 50.23 | 50.26 | 50.12 | 50.11 | |
| | 17 | 50.18 | 50.92 | 51.09 | 50.39 | 50.15 | 49.87 | 50.42 | 49.35 | |
| | 18 | 49.39 | 50.59 | 49.54 | 50.88 | 49.95 | 49.97 | 50.08 | 50.51 | |
| | 19 | 51.28 | 50.25 | 50.92 | 49.55 | 50.24 | 50.57 | 50.80 | 50.70 | |
| | 20 | 50.43 | 49.99 | 49.99 | 50.74 | 49.80 | 50.58 | 50.11 | 49.80 | |
| | 21 | 50.05 | 50.58 | 50.85 | 50.69 | 50.05 | 51.07 | 50.62 | 50.29 | |
| | 22 | 50.61 | 50.64 | 50.38 | 50.51 | 49.71 | 50.51 | 50.51 | 50.65 | |
| | 23 | 50.68 | 51.14 | 50.43 | 50.72 | 50.35 | 49.69 | 50.69 | 49.81 | |
| | 24 | 50.11 | 51.68 | 50.30 | 50.68 | 50.24 | 49.94 | 50.02 | 50.32 | |
| | 25 | 51.98 | 49.59 | 50.83 | 51.61 | 50.35 | 51.59 | 51.64 | 52.41 | |
| | 26 | 51.19 | 51.32 | 50.87 | 52.22 | 50.29 | 50.74 | 51.87 | 52.65 | |
| | 27 | 50.99 | 52.43 | 52.03 | 50.70 | 50.84 | 51.63 | 51.73 | 51.10 | |
| | 28 | 50.86 | 51.25 | 51.27 | 52.22 | 51.04 | 51.46 | 51.54 | 51.61 | |
| | 29 | 51.30 | 52.09 | 51.55 | 51.63 | 50.94 | 51.19 | 51.60 | 51.53 | |
| | 30 | 51.51 | 51.03 | 51.21 | 51.01 | 51.40 | 51.71 | 52.09 | 50.68 | |
| | 31 | 51.58 | 51.50 | 51.74 | 53.31 | 50.98 | 53.19 | 51.81 | 51.25 | |
| | 32 | 51.64 | 51.88 | 51.42 | 51.80 | 51.54 | 51.59 | 52.07 | 51.23 | |
| | 33 | 51.81 | 51.28 | 52.52 | 51.52 | 51.88 | 51.60 | 51.11 | 51.59 | |
| | 34 | 51.49 | 51.18 | 51.06 | 51.53 | 51.00 | 51.15 | 51.90 | 50.87 | |
| | 35 | 51.88 | 51.42 | 50.54 | 52.34 | 51.77 | 50.79 | 51.60 | 52.13 | |
| | 36 | 51.62 | 51.49 | 51.33 | 51.43 | 50.96 | 51.16 | 51.58 | 51.43 | |
| | 37 | 50.87 | 51.28 | 51.49 | 51.76 | 50.84 | 51.76 | 51.72 | 51.78 | |
| | 38 | 52.73 | 52.05 | 50.67 | 52.33 | 51.28 | 51.49 | 53.05 | 51.75 | |
| | 39 | 52.49 | 52.51 | 51.75 | 52.36 | 51.28 | 50.73 | 51.99 | 50.87 | |
| | 40 | 52.53 | 53.17 | 51.89 | 52.45 | 52.08 | 52.54 | 52.39 | 52.41 | |
| | 41 | 52.49 | 52.90 | 51.81 | 52.89 | 50.63 | 52.11 | 51.66 | 52.06 | |
| | 42 | 52.34 | 52.50 | 52.95 | 52.04 | 52.17 | 51.97 | 51.94 | 52.67 | |
| | 43 | 53.03 | 52.27 | 52.52 | 52.54 | 52.47 | 52.39 | 52.35 | 51.65 | |
| | 44 | 52.81 | 52.90 | 52.96 | 52.77 | 52.11 | 51.87 | 52.52 | 52.33 | |
| | 45 | 52.64 | 53.45 | 52.81 | 52.61 | 51.70 | 52.51 | 53.02 | 52.24 | |
| | 46 | 52.16 | 52.59 | 52.68 | 52.84 | 52.60 | 52.36 | 53.37 | 52.58 | |
| | 47 | 52.62 | 52.53 | 52.58 | 52.82 | 52.25 | 51.54 | 52.66 | 52.10 | |
| | 48 | 52.41 | 52.95 | 51.64 | 51.99 | 52.70 | 52.24 | 53.58 | 52.72 | |
| | 49 | 52.60 | 51.98 | 53.00 | 53.20 | 52.09 | 52.42 | 52.31 | 51.85 | |
| | 50 | 53.39 | 53.31 | 53.38 | 53.46 | 52.23 | 53.37 | 53.26 | 53.42 | |
| | 51 | 53.19 | 53.29 | 53.48 | 53.13 | 53.41 | 53.56 | 52.82 | 52.65 | |
| | 52 | 53.46 | 53.77 | 52.70 | 53.25 | 53.17 | 53.56 | 53.27 | 53.26 | |
| | 53 | 53.97 | 53.28 | 53.73 | 53.62 | 53.72 | 53.46 | 53.91 | 53.64 | |
| | 54 | 53.77 | 53.33 | 52.14 | 53.08 | 53.57 | 53.14 | 53.53 | 52.87 | |
| | 55 | 53.35 | 53.09 | 52.90 | 53.02 | 52.99 | 53.08 | 53.22 | 53.24 | |
| | 56 | 53.67 | 53.64 | 53.51 | 53.84 | 53.77 | 53.27 | 53.82 | 53.63 | |
| Replicate Cage #3 | 1 | 49.57 | 49.09 | 49.67 | 49.02 | 49.83 | 49.66 | 50.01 | 49.01 | |
| | 2 | 51.19 | 51.66 | 49.48 | 49.25 | 50.09 | 49.86 | 49.81 | 49.24 | |
| | 3 | 50.71 | 49.97 | 49.05 | 49.77 | 49.12 | 51.13 | 50.70 | 49.76 | |
| | 4 | 49.09 | 49.32 | 49.65 | 49.61 | 49.48 | 49.61 | 49.05 | 49.53 | |
| | 5 | 49.01 | 49.27 | 49.19 | 49.65 | 49.92 | 49.68 | 49.88 | 49.71 | |
| | 6 | 49.90 | 49.03 | 49.63 | 50.75 | 49.05 | 49.89 | 49.99 | 49.84 | |
| | 7 | 49.37 | 49.40 | 49.02 | 51.30 | 50.05 | 49.55 | 49.65 | 49.78 | |
| | 8 | 49.50 | 49.06 | 49.31 | 49.46 | 49.66 | 50.12 | 49.65 | 49.85 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | 49.27 | 49.54 | 49.61 | 49.84 | 49.00 | 52.68 | 49.63 | 49.54 | |
| | 10 | 50.09 | 49.31 | 50.14 | 49.52 | 49.79 | 49.18 | 50.16 | 49.47 | |
| | 11 | 50.71 | 49.41 | 49.76 | 49.27 | 49.37 | 49.41 | 49.47 | 49.71 | |
| | 12 | 50.93 | 50.02 | 49.80 | 49.75 | 50.12 | 49.18 | 49.18 | 50.19 | |
| | 13 | 50.59 | 50.74 | 50.51 | 50.26 | 49.89 | 49.98 | 51.25 | 50.30 | |
| | 14 | 50.18 | 49.22 | 50.36 | 50.64 | 49.71 | 50.51 | 50.63 | 51.27 | |
| | 15 | 50.94 | 50.06 | 50.68 | 51.48 | 50.76 | 50.07 | 50.10 | 50.79 | |
| | 16 | 50.25 | 50.52 | 49.33 | 50.72 | 51.15 | 50.54 | 50.06 | 50.49 | |
| | 17 | 50.80 | 50.57 | 50.41 | 50.63 | 50.42 | 50.85 | 50.23 | 50.26 | |
| | 18 | 49.96 | 49.90 | 50.21 | 50.20 | 50.71 | 49.85 | 50.03 | 49.68 | |
| | 19 | 49.82 | 50.42 | 51.17 | 50.70 | 50.66 | 50.13 | 50.41 | 50.45 | |
| | 20 | 50.69 | 50.92 | 50.71 | 51.24 | 50.34 | 50.76 | 51.23 | 50.63 | |
| | 21 | 50.31 | 49.82 | 50.21 | 50.34 | 51.15 | 50.65 | 51.00 | 50.65 | |
| | 22 | 49.82 | 50.05 | 50.12 | 51.60 | 51.12 | 50.60 | 50.67 | 50.50 | |
| | 23 | 50.55 | 50.18 | 49.90 | 50.69 | 50.82 | 50.90 | 50.32 | 49.96 | |
| | 24 | 51.96 | 50.91 | 52.21 | 51.78 | 50.80 | 51.67 | 51.71 | 51.04 | |
| | 25 | 51.12 | 51.38 | 52.19 | 51.42 | 52.71 | 50.97 | 51.76 | 52.72 | |
| | 26 | 52.00 | 51.17 | 50.39 | 51.53 | 51.90 | 51.04 | 51.90 | 51.59 | |
| | 27 | 51.64 | 50.98 | 51.45 | 51.72 | 51.64 | 51.44 | 49.82 | 51.74 | |
| | 28 | 51.46 | 51.24 | 52.14 | 52.83 | 51.07 | 51.54 | 51.00 | 51.57 | |
| | 29 | 52.02 | 50.98 | 51.81 | 51.20 | 51.40 | 51.46 | 51.97 | 51.13 | |
| | 30 | 50.99 | 51.39 | 51.41 | 51.02 | 51.20 | 50.50 | 50.97 | 51.44 | |
| | 31 | 51.02 | 51.13 | 51.56 | 52.09 | 51.68 | 51.45 | 51.03 | 51.48 | |
| | 32 | 52.07 | 51.47 | 51.88 | 51.40 | 51.22 | 51.15 | 51.61 | 51.41 | |
| | 33 | 52.98 | 51.24 | 51.92 | 51.59 | 51.55 | 51.59 | 51.74 | 51.08 | |
| | 34 | 51.63 | 51.48 | 52.59 | 51.58 | 51.88 | 51.76 | 50.86 | 51.16 | |
| | 35 | 51.28 | 51.81 | 51.63 | 51.29 | 51.34 | 51.52 | 52.20 | 51.38 | |
| | 36 | 51.71 | 51.79 | 51.85 | 51.08 | 51.38 | 51.17 | 52.07 | 50.98 | |
| | 37 | 52.79 | 52.45 | 52.28 | 52.74 | 52.49 | 51.51 | 52.21 | 52.32 | |
| | 38 | 52.39 | 52.14 | 52.41 | 52.25 | 52.54 | 52.93 | 52.63 | 51.94 | |
| | 39 | 51.82 | 52.23 | 53.26 | 53.14 | 52.55 | 52.97 | 52.85 | 53.04 | |
| | 40 | 52.92 | 52.87 | 52.31 | 51.87 | 52.25 | 52.84 | 52.11 | 53.10 | |
| | 41 | 52.31 | 52.87 | 52.75 | 51.91 | 52.53 | 52.59 | 52.51 | 52.10 | |
| | 42 | 52.98 | 52.46 | 52.51 | 52.76 | 51.73 | 52.41 | 53.29 | 53.42 | |
| | 43 | 52.58 | 52.66 | 53.15 | 52.04 | 52.49 | 52.36 | 52.33 | 52.50 | |
| | 44 | 52.90 | 52.26 | 52.40 | 52.28 | 52.07 | 52.13 | 52.37 | 52.47 | |
| | 45 | 53.13 | 52.29 | 52.05 | 52.60 | 52.51 | 52.30 | 52.51 | 52.76 | |
| | 46 | 52.89 | 52.62 | 52.56 | 52.34 | 51.78 | 52.08 | 52.21 | 52.50 | |
| | 47 | 53.06 | 52.68 | 52.63 | 52.93 | 53.34 | 52.57 | 52.35 | 52.61 | |
| | 48 | 52.76 | 53.33 | 52.24 | 52.92 | 52.84 | 52.83 | 52.69 | 52.86 | |
| | 49 | 53.97 | 52.67 | 52.93 | 53.33 | 51.96 | 51.98 | 53.72 | 52.20 | |
| | 50 | 53.96 | 53.25 | 53.61 | 53.10 | 53.57 | 53.37 | 52.81 | 53.76 | |
| | 51 | 53.82 | 53.06 | 53.81 | 53.33 | 53.11 | 53.31 | 53.21 | 53.60 | |
| | 52 | 53.16 | 53.13 | 53.45 | 53.34 | 53.15 | 53.12 | 53.81 | 53.84 | |
| | 53 | 52.96 | 53.29 | 53.08 | 53.89 | 52.95 | 53.87 | 53.31 | 53.07 | |
| | 54 | 53.81 | 53.38 | 53.36 | 53.23 | 53.65 | 53.22 | 53.03 | 53.04 | |
| | 55 | 53.92 | 53.46 | 53.08 | 53.06 | 53.84 | 53.19 | 53.16 | 52.89 | |
| | 56 | 53.29 | 53.79 | 53.61 | 53.22 | 53.35 | 53.10 | 53.30 | 53.92 | |

## Beginnin-of-Test Tissue Weight (g-wet) by Station

| | | | | Overall Mean |
|---|---|---|---|---|
| mean | 4.21 | 4.58 | 4.31 | 4.37 |
| min | 2.5 | 3.16 | 2.51 | 2.5 |
| max | 6.68 | 7.19 | 6.95 | 7.19 |
| stdev | 0.78 | 0.85 | 0.86 | 0.84 |
| N | 56 | 56 | 56 | 168 |
| 2SE | 0.208 | 0.226 | 0.231 | 0.130 |
| Mussel No.: | **Cage 3** | **Cage 12** | **Cage 20** | |
| 1 | 3.41 | 3.70 | 3.69 | |
| 2 | 2.50 | 4.70 | 4.17 | |
| 3 | 3.71 | 3.40 | 3.59 | |
| 4 | 4.36 | 5.07 | 3.39 | |
| 5 | 2.84 | 4.31 | 3.44 | |
| 6 | 3.81 | 3.27 | 4.02 | |
| 7 | 3.93 | 4.13 | 3.52 | |
| 8 | 4.03 | 5.07 | 4.87 | |
| 9 | 4.69 | 4.17 | 3.32 | |
| 10 | 4.18 | 4.56 | 3.11 | |
| 11 | 4.35 | 4.65 | 4.93 | |
| 12 | 3.63 | 4.39 | 4.16 | |
| 13 | 2.91 | 3.85 | 3.57 | |
| 14 | 5.41 | 4.03 | 2.95 | |
| 15 | 3.20 | 3.46 | 3.60 | |
| 16 | 4.74 | 4.66 | 4.12 | |
| 17 | 2.92 | 4.61 | 3.25 | |
| 18 | 4.70 | 4.75 | 2.51 | |
| 19 | 3.94 | 3.65 | 2.74 | |
| 20 | 4.02 | 3.53 | 3.53 | |
| 21 | 3.76 | 4.45 | 4.92 | |
| 22 | 2.94 | 4.12 | 3.85 | |
| 23 | 3.51 | 3.96 | 4.40 | |
| 24 | 3.03 | 3.69 | 5.12 | |
| 25 | 5.42 | 4.47 | 5.24 | |
| 26 | 4.19 | 5.01 | 5.22 | |
| 27 | 4.80 | 4.23 | 3.82 | |
| 28 | 3.11 | 5.29 | 4.44 | |
| 29 | 4.67 | 3.16 | 4.26 | |
| 30 | 4.88 | 4.30 | 3.69 | |
| 31 | 4.13 | 4.08 | 4.10 | |
| 32 | 4.72 | 4.02 | 5.38 | |
| 33 | 4.99 | 4.60 | 6.95 | |
| 34 | 4.79 | 7.19 | 4.48 | |
| 35 | 4.31 | 3.91 | 5.26 | |
| 36 | 4.68 | 3.99 | 3.88 | |
| 37 | 3.93 | 5.66 | 4.05 | |
| 38 | 4.76 | 5.72 | 4.19 | |
| 39 | 4.35 | 3.69 | 5.67 | |
| 40 | 4.46 | 4.23 | 4.98 | |
| 41 | 4.04 | 5.26 | 4.91 | |
| 42 | 5.33 | 3.78 | 5.60 | |
| 43 | 3.95 | 4.70 | 4.26 | |
| 44 | 3.82 | 4.02 | 4.07 | |
| 45 | 4.70 | 4.94 | 4.33 | |
| 46 | 4.41 | 5.36 | 3.25 | |
| 47 | 5.12 | 5.83 | 5.06 | |
| 48 | 4.22 | 5.39 | 4.64 | |
| 49 | 3.62 | 4.35 | 3.66 | |
| 50 | 4.69 | 5.63 | 4.84 | |
| 51 | 5.37 | 4.59 | 4.21 | |
| 52 | 6.68 | 5.84 | 5.34 | |
| 53 | 4.20 | 6.02 | 5.57 | |
| 54 | 3.92 | 5.19 | 4.79 | |
| 55 | 4.76 | 6.71 | 5.20 | |
| 56 | 4.45 | 5.21 | 5.13 | |

## Beginnin-of-Test Shell Weight (g-wet) by Station

| | | | | Overall Mean |
|---|---|---|---|---|
| mean | 3.37 | 3.57 | 3.38 | 3.44 |
| min | 2.5 | 2.7 | 2.52 | 2.5 |
| max | 4.29 | 6.51 | 4.66 | 6.51 |
| stdev | 0.40 | 0.60 | 0.48 | 0.50 |
| N | 56 | 56 | 56 | 168 |
| 2SE | 0.107 | 0.160 | 0.127 | 0.078 |
| Mussel No.: | **Cage 3** | **Cage 12** | **Cage 20** | |
| 1 | 3.06 | 3.58 | 2.81 | |
| 2 | 2.50 | 3.55 | 3.28 | |
| 3 | 2.90 | 3.05 | 3.03 | |
| 4 | 3.21 | 3.51 | 2.95 | |
| 5 | 2.86 | 3.49 | 3.09 | |
| 6 | 2.89 | 6.51 | 3.00 | |
| 7 | 3.54 | 2.99 | 3.43 | |
| 8 | 3.33 | 3.29 | 3.72 | |
| 9 | 3.15 | 3.34 | 2.84 | |
| 10 | 3.38 | 2.98 | 2.81 | |
| 11 | 3.91 | 3.18 | 3.14 | |
| 12 | 3.29 | 3.01 | 3.25 | |
| 13 | 2.70 | 3.50 | 3.34 | |
| 14 | 3.79 | 3.52 | 2.98 | |
| 15 | 2.91 | 2.70 | 2.78 | |
| 16 | 3.21 | 3.74 | 2.91 | |
| 17 | 2.96 | 3.06 | 2.84 | |
| 18 | 3.97 | 2.85 | 2.52 | |
| 19 | 3.01 | 3.00 | 2.81 | |
| 20 | 3.73 | 3.14 | 2.89 | |
| 21 | 3.30 | 3.11 | 3.84 | |
| 22 | 3.06 | 3.17 | 3.05 | |
| 23 | 2.85 | 3.07 | 3.46 | |
| 24 | 2.78 | 3.14 | 3.53 | |
| 25 | 4.11 | 3.79 | 4.12 | |
| 26 | 3.36 | 3.81 | 3.82 | |
| 27 | 3.46 | 3.08 | 3.41 | |
| 28 | 3.10 | 3.74 | 3.29 | |
| 29 | 3.75 | 3.26 | 3.40 | |
| 30 | 3.74 | 3.46 | 2.80 | |
| 31 | 3.48 | 3.36 | 3.65 | |
| 32 | 3.20 | 2.73 | 3.73 | |
| 33 | 3.29 | 4.25 | 4.59 | |
| 34 | 3.06 | 3.21 | 3.43 | |
| 35 | 3.01 | 3.83 | 3.09 | |
| 36 | 3.09 | 4.07 | 2.79 | |
| 37 | 3.37 | 3.54 | 3.11 | |
| 38 | 3.16 | 3.44 | 3.01 | |
| 39 | 3.26 | 3.16 | 4.03 | |
| 40 | 3.81 | 3.94 | 4.00 | |
| 41 | 3.32 | 3.77 | 3.48 | |
| 42 | 3.72 | 4.03 | 4.09 | |
| 43 | 3.56 | 3.56 | 3.78 | |
| 44 | 3.11 | 3.38 | 3.62 | |
| 45 | 3.84 | 3.96 | 3.78 | |
| 46 | 3.73 | 4.30 | 3.10 | |
| 47 | 2.94 | 3.49 | 4.66 | |
| 48 | 3.64 | 3.86 | 3.49 | |
| 49 | 3.79 | 3.61 | 3.70 | |
| 50 | 3.29 | 3.68 | 3.45 | |
| 51 | 3.44 | 4.77 | 3.85 | |
| 52 | 4.29 | 4.06 | 3.40 | |
| 53 | 3.71 | 3.65 | 3.40 | |
| 54 | 3.84 | 4.37 | 3.18 | |
| 55 | 4.02 | 4.11 | 3.50 | |
| 56 | 3.91 | 4.30 | 4.35 | |

## End-of-Test Whole Animal Wet Weight (g-wet) by Station

| | | | | | | | | | Overall Mean |
|---|---|---|---|---|---|---|---|---|---|
| | mean | #DIV/0! | 20.18 | 22.18 | 19.53 | 19.31 | 18.82 | 20.15 | 20.05 |
| | min | 0 | 13.59 | 11.43 | 11.95 | 9.02 | 12.66 | 10.97 | 9.02 |
| | max | 0 | 26.76 | 30.74 | 27.94 | 28.35 | 28.27 | 29.52 | 30.74 |
| | stdev | #DIV/0! | 2.60 | 3.51 | 3.05 | 3.27 | 2.76 | 3.36 | 3.31 |
| | N | 0 | 112 | 155 | 148 | 150 | 140 | 159 | 864 |
| | 95 CI | #DIV/0! | 0.4817 | 0.5523 | 0.4906 | 0.5230 | 0.4566 | 0.5217 | 0.2210 |
| | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | |
| Replicate Cage #1 | 1 | | 17.55 | | 17.00 | 11.54 | | | |
| | 2 | | | 23.93 | 19.51 | 16.83 | | 17.22 | |
| | 3 | | 18.74 | 18.66 | 19.58 | 18.14 | | 15.85 | |
| | 4 | | 19.69 | 20.44 | 14.47 | 13.05 | 16.82 | 16.58 | |
| | 5 | | 15.47 | 17.83 | | 13.29 | | 23.60 | |
| | 6 | | 21.67 | 17.66 | | 19.91 | | 18.87 | |
| | 7 | | 15.71 | 17.78 | 15.26 | 17.58 | | 18.42 | |
| | 8 | | 21.23 | 16.74 | 17.22 | 16.99 | | 13.11 | |
| | 9 | | 15.76 | | 13.14 | 15.86 | 14.84 | 13.28 | |
| | 10 | | 19.27 | 20.92 | 15.86 | 16.45 | | 14.18 | |
| | 11 | | 16.57 | 17.87 | 13.09 | 15.86 | | 16.64 | |
| | 12 | | 14.22 | 21.75 | 13.26 | 13.02 | | 17.44 | |
| | 13 | | 19.38 | 19.95 | | 17.67 | 17.35 | 15.53 | |
| | 14 | | | 21.45 | 16.20 | 17.56 | | 18.53 | |
| | 15 | | 21.69 | 20.45 | 17.67 | | | 21.63 | |
| | 16 | | 19.11 | 16.63 | 15.70 | 16.89 | | 20.90 | |
| | 17 | | 19.58 | 17.18 | 18.92 | 23.28 | | 22.43 | |
| | 18 | | 23.84 | | 18.47 | 17.72 | | 16.39 | |
| | 19 | | | 25.02 | | 16.67 | | 20.37 | |
| | 20 | | 21.38 | 11.43 | 15.94 | 16.91 | | 20.73 | |
| | 21 | | 19.26 | 26.11 | | 17.07 | | 17.79 | |
| | 22 | | 22.66 | 20.21 | 14.64 | 18.96 | 16.79 | 14.94 | |
| | 23 | | 19.42 | 21.22 | | 15.28 | 15.29 | 17.27 | |
| | 24 | | 17.77 | 23.36 | 19.04 | 17.86 | 18.64 | 17.36 | |
| | 25 | | 17.14 | 20.87 | 19.46 | 20.09 | 16.96 | 16.35 | |
| | 26 | | 22.37 | 17.53 | 15.66 | 17.86 | 20.69 | 11.72 | |
| | 27 | | 17.02 | 30.30 | 18.30 | | | 18.33 | |
| | 28 | | 18.22 | 25.30 | 16.39 | | 18.60 | 21.44 | |
| | 29 | | 15.97 | 22.29 | 20.31 | 17.30 | 17.58 | 16.67 | |
| | 30 | | 15.62 | 21.33 | 19.20 | 19.33 | 21.66 | 17.15 | |
| | 31 | | 19.04 | 21.03 | 19.40 | | 20.45 | 22.67 | |
| | 32 | | 17.13 | 21.54 | 17.55 | 17.60 | 20.94 | 23.27 | |
| | 33 | | 18.36 | 20.47 | 24.44 | | 21.32 | 21.83 | |
| | 34 | | | 23.66 | 17.74 | 14.93 | 18.84 | 17.40 | |
| | 35 | | 17.76 | 26.70 | 17.36 | | 17.52 | 19.46 | |
| | 36 | | 19.94 | 23.33 | 18.39 | 17.90 | 23.00 | 21.89 | |
| | 37 | | 19.42 | 25.43 | | 16.59 | 20.72 | 22.67 | |
| | 38 | | 20.39 | 22.25 | 16.17 | 18.35 | 16.61 | 18.97 | |
| | 39 | | 24.26 | 21.68 | 22.22 | 16.79 | 15.66 | 18.71 | |
| | 40 | | 24.33 | 23.22 | 17.47 | 14.83 | 20.03 | 21.27 | |
| | 41 | | 18.69 | 17.31 | 20.57 | | 17.33 | 20.95 | |
| | 42 | | 19.57 | 24.63 | | 22.80 | 18.79 | 15.46 | |
| | 43 | | 19.79 | 25.74 | 15.73 | 17.99 | 15.97 | 23.95 | |
| | 44 | | 20.82 | 24.60 | | 17.56 | 16.40 | 23.85 | |
| | 45 | | 19.03 | 22.01 | 19.86 | 19.49 | 17.75 | 25.19 | |
| | 46 | | 19.67 | 22.02 | | 18.37 | 19.39 | 21.97 | |
| | 47 | | 21.01 | 23.79 | 15.83 | 23.06 | 15.95 | 22.83 | |
| | 48 | | 23.40 | 23.75 | 18.71 | 19.87 | 19.63 | 27.76 | |
| | 49 | | 22.16 | | 17.40 | 17.81 | 19.38 | | |
| | 50 | | | | 19.10 | | 20.10 | | |
| | 51 | | 20.92 | 24.96 | 20.80 | 21.17 | 16.24 | | |
| | 52 | | 20.94 | 14.90 | 17.42 | 18.70 | 17.32 | 21.58 | |
| | 53 | | 21.12 | 21.04 | 21.44 | 18.38 | 22.30 | 15.70 | |
| | 54 | | | 20.79 | 27.94 | 21.67 | 13.88 | 23.54 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 55 | | 19.01 | 20.76 | 19.31 | 20.37 | 22.74 | 24.08 | |
| | 56 | | 16.70 | 14.48 | | 21.58 | 20.09 | 23.03 | |
| Replicate Cage #2 | 1 | | 19.94 | 20.67 | 16.59 | 19.49 | 16.72 | 14.06 | |
| | 2 | | 17.61 | 24.22 | | 14.36 | 18.87 | 17.02 | |
| | 3 | | 23.41 | 24.01 | 17.58 | 17.70 | 18.36 | 22.21 | |
| | 4 | | | 21.45 | 19.51 | 15.96 | 16.52 | 14.71 | |
| | 5 | | | | | 16.36 | 16.87 | 18.65 | |
| | 6 | | | 20.82 | 23.80 | 14.62 | 13.98 | 16.24 | |
| | 7 | | | 21.16 | 22.22 | 18.20 | | 19.40 | |
| | 8 | | | 16.41 | 21.03 | | 17.64 | 18.79 | |
| | 9 | | | | 17.17 | 21.68 | | 17.05 | |
| | 10 | | | 24.56 | 19.89 | 16.93 | 13.00 | 11.42 | |
| | 11 | | | 19.18 | | 18.20 | 18.35 | 20.12 | |
| | 12 | | | 23.76 | 17.86 | 20.55 | 20.99 | 20.50 | |
| | 13 | | | 20.50 | 21.67 | 15.72 | 17.16 | 17.38 | |
| | 14 | | | 21.59 | 21.79 | 16.54 | 17.39 | 19.31 | |
| | 15 | | | 23.90 | 17.19 | 13.97 | 17.96 | 17.85 | |
| | 16 | | | 20.14 | 15.72 | 20.20 | | 15.38 | |
| | 17 | | | 25.10 | 18.45 | 19.23 | 16.56 | 20.84 | |
| | 18 | | | 22.12 | 21.34 | 17.24 | | 17.73 | |
| | 19 | | | 22.69 | 18.30 | | 23.81 | 17.39 | |
| | 20 | | | 12.57 | 20.21 | 19.09 | 17.22 | 20.58 | |
| | 21 | | | 28.16 | 20.60 | 19.86 | 18.12 | | |
| | 22 | | | 21.27 | 19.93 | | | 15.01 | |
| | 23 | | | 27.23 | 18.74 | 15.73 | 22.18 | 16.63 | |
| | 24 | | | 22.37 | 18.38 | 16.19 | 12.66 | 23.20 | |
| | 25 | | | 22.33 | 15.85 | 24.98 | 22.91 | 23.06 | |
| | 26 | | | 16.61 | 20.47 | 15.46 | 22.18 | 24.32 | |
| | 27 | | | 26.67 | 21.68 | 22.77 | 15.53 | 21.04 | |
| | 28 | | | 20.49 | 15.19 | | 17.97 | 26.17 | |
| | 29 | | | 24.85 | 18.53 | 18.03 | 20.46 | 20.55 | |
| | 30 | | | 21.86 | 22.17 | 15.66 | 18.47 | 20.56 | |
| | 31 | | | 26.46 | 19.23 | 17.38 | | 29.52 | |
| | 32 | | | 18.78 | 20.84 | 22.27 | | 20.51 | |
| | 33 | | 24.24 | 22.18 | 18.23 | 21.09 | 15.24 | 19.00 | |
| | 34 | | 19.13 | | 20.03 | 17.13 | 21.33 | 19.93 | |
| | 35 | | 22.07 | 20.97 | 19.55 | 20.66 | 17.81 | 19.60 | |
| | 36 | | | 27.19 | 24.03 | 20.09 | 19.18 | 18.70 | |
| | 37 | | | 25.41 | 11.95 | 20.77 | 17.24 | 17.32 | |
| | 38 | | | 25.11 | 18.79 | 16.22 | 19.36 | 21.07 | |
| | 39 | | | 24.53 | 23.29 | 19.24 | 16.08 | 19.65 | |
| | 40 | | | 20.96 | 20.65 | 21.21 | 18.42 | 19.31 | |
| | 41 | | | 20.40 | 23.97 | 18.07 | 28.27 | 21.07 | |
| | 42 | | | 29.72 | 21.16 | 19.01 | 16.91 | 23.41 | |
| | 43 | | | 18.22 | 23.81 | 21.49 | 18.66 | 21.08 | |
| | 44 | | | 16.73 | 16.85 | 22.65 | 17.63 | 21.66 | |
| | 45 | | | 21.25 | 24.11 | 18.90 | | 18.68 | |
| | 46 | | | 21.53 | 26.91 | 22.22 | 21.05 | 24.94 | |
| | 47 | | | 24.88 | | 22.75 | | 22.29 | |
| | 48 | | | 21.98 | 21.67 | | 14.48 | 20.76 | |
| | 49 | | | 26.86 | 20.73 | 18.51 | 19.93 | 20.93 | |
| | 50 | | | 24.05 | | 18.71 | 21.06 | 17.56 | |
| | 51 | | | | 19.94 | | 16.16 | 18.69 | |
| | 52 | | | 30.10 | 24.47 | 24.58 | 23.25 | | |
| | 53 | | 19.28 | 22.65 | | 23.85 | 22.34 | 23.89 | |
| | 54 | | 25.53 | 27.03 | 19.22 | 19.37 | 21.62 | 23.11 | |
| | 55 | | 23.70 | 23.07 | 25.69 | 23.54 | 18.26 | 14.25 | |
| | 56 | | 18.49 | 23.67 | 18.71 | 23.26 | 16.72 | 17.73 | |
| Replicate Cage #3 | 1 | | 18.79 | 21.07 | 16.93 | 17.87 | 18.64 | 10.97 | |
| | 2 | | 19.30 | 21.85 | 18.29 | 18.75 | 17.81 | 24.95 | |
| | 3 | | 23.99 | 20.08 | 16.29 | 17.26 | 17.42 | 21.14 | |
| | 4 | | | 20.52 | 15.62 | 21.29 | 14.98 | 23.01 | |
| | 5 | | 17.83 | 17.26 | 15.20 | 22.80 | 18.81 | 27.91 | |
| | 6 | | 24.88 | 28.83 | 22.41 | 22.04 | 15.12 | 20.37 | |
| | 7 | | 22.81 | 16.10 | 19.95 | | 21.94 | 23.58 | |
| | 8 | | 21.21 | 22.00 | 19.23 | 20.73 | 22.59 | 19.37 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 9 | | 21.43 | 19.63 | 21.85 | 17.82 | 21.43 | 22.68 | |
| | 10 | | 20.27 | 19.90 | 21.17 | | 19.43 | 19.10 | |
| | 11 | | | 17.16 | 22.17 | 18.98 | 24.66 | 24.94 | |
| | 12 | | 20.69 | 18.30 | 13.69 | 18.71 | 16.72 | 20.76 | |
| | 13 | | 25.13 | 19.86 | 20.54 | 15.37 | 14.19 | 21.53 | |
| | 14 | | 13.59 | 19.29 | 18.87 | | 17.75 | | |
| | 15 | | 19.54 | 20.62 | 18.70 | 25.11 | 21.88 | | |
| | 16 | | 19.66 | 22.16 | 18.90 | 17.50 | 18.97 | 19.77 | |
| | 17 | | 18.72 | 23.37 | 18.91 | 22.88 | 21.60 | 20.91 | |
| | 18 | | 16.76 | 20.81 | 20.68 | 16.45 | 15.36 | 20.82 | |
| | 19 | | 17.67 | 23.84 | 16.36 | 19.04 | 19.76 | 19.76 | |
| | 20 | | 22.34 | 24.07 | 23.15 | 15.47 | 17.60 | 20.32 | |
| | 21 | | 15.39 | 24.03 | 20.84 | 9.02 | 18.94 | 19.05 | |
| | 22 | | 16.88 | 23.66 | 16.59 | 21.39 | 23.18 | 22.11 | |
| | 23 | | 21.20 | 21.32 | 18.97 | 18.85 | 19.90 | 21.58 | |
| | 24 | | 20.44 | 23.37 | 22.35 | 17.46 | 14.17 | 23.97 | |
| | 25 | | 20.38 | 19.67 | 19.53 | 23.28 | 19.41 | 17.79 | |
| | 26 | | 21.66 | 24.73 | 23.57 | 22.33 | 20.72 | 17.83 | |
| | 27 | | 17.63 | 27.28 | 20.42 | 18.46 | 24.81 | 23.84 | |
| | 28 | | 20.30 | 27.75 | 20.27 | 19.70 | 19.16 | 21.83 | |
| | 29 | | 21.29 | 21.77 | 19.59 | 20.38 | 19.30 | 27.59 | |
| | 30 | | 23.79 | 23.10 | 23.03 | 26.15 | 18.83 | 22.59 | |
| | 31 | | 24.04 | | | 28.35 | 16.17 | 16.14 | |
| | 32 | | 19.90 | 18.60 | 19.00 | 23.36 | 17.26 | 17.38 | |
| | 33 | | 17.98 | 29.96 | 21.87 | 23.98 | 18.40 | 23.54 | |
| | 34 | | 24.29 | 19.47 | 15.67 | 17.22 | 19.61 | 21.03 | |
| | 35 | | 20.05 | 19.13 | 27.66 | 22.40 | 15.65 | 21.72 | |
| | 36 | | 21.05 | 18.49 | 18.44 | 21.52 | 21.98 | 24.09 | |
| | 37 | | 22.22 | 21.35 | 18.60 | | 17.70 | 20.29 | |
| | 38 | | 20.03 | 23.06 | 26.68 | 22.14 | 21.95 | 21.35 | |
| | 39 | | 21.39 | 25.72 | 22.98 | 18.53 | 14.78 | 20.09 | |
| | 40 | | | | 23.71 | 22.52 | 16.71 | 21.84 | |
| | 41 | | 20.99 | 23.57 | 20.72 | 17.50 | 20.21 | | |
| | 42 | | 21.60 | 24.47 | 24.16 | 28.09 | 16.64 | 24.43 | |
| | 43 | | 22.03 | 23.23 | 23.60 | 23.24 | 15.39 | 16.30 | |
| | 44 | | 21.43 | 22.41 | 19.65 | 20.32 | 19.96 | 22.72 | |
| | 45 | | 17.27 | 26.71 | 23.25 | 19.25 | 15.50 | 18.25 | |
| | 46 | | 20.83 | 30.06 | 20.49 | 26.14 | 21.53 | 25.38 | |
| | 47 | | 20.31 | 20.23 | 20.58 | 20.07 | 19.94 | 22.03 | |
| | 48 | | 20.53 | | 17.09 | 27.06 | 22.16 | 17.50 | |
| | 49 | | 22.31 | 20.10 | 19.24 | 17.61 | 19.81 | 21.81 | |
| | 50 | | 25.71 | 20.17 | | 19.28 | 20.68 | 21.43 | |
| | 51 | | | 25.23 | 22.04 | 23.55 | 18.57 | 23.96 | |
| | 52 | | 19.29 | 25.40 | 20.63 | 25.88 | 25.54 | 20.61 | |
| | 53 | | 18.74 | 28.94 | 26.68 | 24.39 | 20.65 | 26.81 | |
| | 54 | | 22.69 | 30.74 | 18.08 | 21.56 | 23.22 | 19.69 | |
| | 55 | | 21.73 | 22.39 | | 22.35 | 23.32 | 24.31 | |
| | 56 | | 26.76 | | 20.32 | 23.08 | 19.62 | 20.47 | |

## End-of-Test Shell Length (mm) by Station

| | | | | | | | | | Overall Mean |
|---|---|---|---|---|---|---|---|---|---|
| | mean | #DIV/0! | 58.69 | 60.12 | 58.13 | 58.03 | 58.10 | 59.45 | 58.78 |
| | min | 0 | 51 | 49.63 | 49.83 | 50.1 | 50.59 | 50.42 | 49.63 |
| | max | 0 | 67.27 | 76.83 | 67.02 | 70.19 | 64.58 | 68.36 | 76.83 |
| | stdev | #DIV/0! | 3.11 | 4.34 | 3.44 | 3.61 | 2.98 | 3.95 | 3.72 |
| | N | 0 | 112 | 155 | 148 | 150 | 140 | 159 | 864 |
| | 95 CI | #DIV/0! | 0.5765 | 0.6828 | 0.5547 | 0.5773 | 0.4934 | 0.6134 | 0.2477 |
| | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | |
| Replicate Cage #1 | 1 | | 56.73 | | 53.40 | 55.31 | | | |
| | 2 | | | 62.70 | 57.46 | 58.05 | | 52.43 | |
| | 3 | | 57.34 | 57.60 | 57.75 | 57.30 | | 55.63 | |
| | 4 | | 55.08 | 59.74 | 54.69 | 54.43 | 56.61 | 60.60 | |
| | 5 | | 55.77 | 56.76 | | 51.70 | | 59.60 | |
| | 6 | | 59.17 | 53.77 | | 57.80 | | 56.94 | |
| | 7 | | 54.82 | 56.88 | 57.26 | 55.88 | | 55.85 | |
| | 8 | | 57.73 | 54.20 | 55.00 | 56.67 | | 51.64 | |
| | 9 | | 52.82 | | 52.87 | 54.29 | 52.71 | 52.02 | |
| | 10 | | 55.02 | 60.30 | 59.81 | 56.88 | | 52.95 | |
| | 11 | | 54.46 | 56.97 | 53.66 | 57.13 | | 56.30 | |
| | 12 | | 54.16 | 56.91 | 49.83 | 52.40 | | 57.87 | |
| | 13 | | 59.19 | 61.17 | | 56.11 | 60.39 | 55.45 | |
| | 14 | | | 61.16 | 54.35 | 54.88 | | 54.07 | |
| | 15 | | 62.19 | 55.86 | 56.82 | | | 64.17 | |
| | 16 | | 58.21 | 54.82 | 51.56 | 60.03 | | 61.28 | |
| | 17 | | 56.51 | 58.76 | 58.10 | 62.86 | | 63.57 | |
| | 18 | | 61.03 | | 54.66 | 54.17 | | 54.97 | |
| | 19 | | | 62.46 | | 56.84 | | 54.88 | |
| | 20 | | 62.54 | 49.63 | 54.97 | 55.80 | | 58.74 | |
| | 21 | | 62.58 | 63.90 | | 56.16 | | 60.90 | |
| | 22 | | 60.87 | 59.12 | 54.31 | 57.19 | 58.97 | 53.98 | |
| | 23 | | 55.58 | 60.58 | | 50.77 | 56.91 | 59.89 | |
| | 24 | | 57.27 | 62.74 | 51.00 | 55.06 | 57.04 | 54.62 | |
| | 25 | | 57.79 | 63.05 | 57.52 | 56.51 | 56.51 | 51.89 | |
| | 26 | | 55.83 | 54.45 | 54.75 | 55.03 | 56.73 | 50.42 | |
| | 27 | | 55.28 | 66.13 | 55.25 | | | 56.02 | |
| | 28 | | 57.56 | 76.83 | 53.10 | | 57.55 | 58.64 | |
| | 29 | | 56.68 | 76.37 | 57.47 | 58.01 | 56.16 | 57.18 | |
| | 30 | | 52.78 | 64.12 | 55.39 | 55.61 | 61.20 | 59.54 | |
| | 31 | | 57.84 | 61.74 | 58.35 | | 56.32 | 62.89 | |
| | 32 | | 58.64 | 54.81 | 57.33 | 54.54 | 60.22 | 61.97 | |
| | 33 | | 59.83 | 61.85 | 60.44 | | 59.41 | 61.87 | |
| | 34 | | | 61.48 | 56.75 | 52.97 | 60.36 | 58.03 | |
| | 35 | | 59.35 | 57.01 | 54.56 | | 55.54 | 59.87 | |
| | 36 | | 57.49 | 60.13 | 56.26 | 57.85 | 62.69 | 62.85 | |
| | 37 | | 56.72 | 65.00 | | 53.25 | 59.29 | 62.18 | |
| | 38 | | 57.41 | 64.47 | 54.72 | 58.96 | 56.25 | 56.08 | |
| | 39 | | 62.38 | 58.30 | 59.83 | 57.60 | 56.85 | 57.25 | |
| | 40 | | 60.50 | 58.77 | 57.29 | 54.33 | 57.36 | 60.35 | |
| | 41 | | 59.34 | 59.49 | 59.55 | | 54.17 | 61.67 | |
| | 42 | | 58.27 | 61.98 | | 63.01 | 61.55 | 55.00 | |
| | 43 | | 57.13 | 63.16 | 54.17 | 56.33 | 54.30 | 63.17 | |
| | 44 | | 60.79 | 58.60 | | 54.14 | 54.34 | 66.04 | |
| | 45 | | 58.74 | 57.82 | 59.54 | 59.73 | 55.95 | 64.22 | |
| | 46 | | 58.47 | 67.84 | | 56.86 | 61.09 | 59.70 | |
| | 47 | | 58.05 | 57.83 | 55.47 | 64.08 | 53.73 | 63.99 | |
| | 48 | | 57.66 | 59.30 | 58.73 | 61.58 | 58.37 | 68.36 | |
| | 49 | | 56.67 | | 55.79 | 57.12 | 58.14 | | |
| | 50 | | | | 55.35 | | 59.29 | | |
| | 51 | | 59.40 | 64.85 | 59.58 | 60.39 | 53.91 | | |
| | 52 | | 59.37 | 54.11 | 55.68 | 55.73 | 56.53 | 57.97 | |
| | 53 | | 64.13 | 54.12 | 60.46 | 57.32 | 57.43 | 54.31 | |
| | 54 | | | 59.00 | 63.80 | 62.47 | 53.64 | 60.47 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 55 | | 58.17 | 61.00 | 57.16 | 58.22 | 60.69 | 65.09 |
| | 56 | | 55.28 | 54.73 | | 62.90 | 59.34 | 64.25 |
| Replicate Cage #2 | 1 | | 59.37 | 58.52 | 55.26 | 60.50 | 56.90 | 53.73 |
| | 2 | | 54.15 | 63.85 | | 54.81 | 59.82 | 53.10 |
| | 3 | | 62.76 | 57.81 | 56.23 | 54.55 | 60.86 | 60.33 |
| | 4 | | | 60.28 | 57.06 | 58.04 | 55.11 | 52.63 |
| | 5 | | | | | 53.16 | 56.77 | 56.74 |
| | 6 | | | 58.80 | 59.62 | 53.81 | 53.58 | 53.31 |
| | 7 | | | 58.85 | 58.60 | 57.40 | | 59.21 |
| | 8 | | | 60.18 | 61.42 | | 55.44 | 57.92 |
| | 9 | | | | 53.83 | 57.08 | | 55.53 |
| | 10 | | | 61.87 | 59.22 | 55.85 | 50.59 | 50.57 |
| | 11 | | | 60.46 | | 57.32 | 55.51 | 61.19 |
| | 12 | | | 52.56 | 58.52 | 59.24 | 58.88 | 61.87 |
| | 13 | | | 57.03 | 59.10 | 53.08 | 54.62 | 62.79 |
| | 14 | | | 60.47 | 59.40 | 50.10 | 55.81 | 54.77 |
| | 15 | | | 64.00 | 58.68 | 52.61 | 58.37 | 58.94 |
| | 16 | | | 59.88 | 53.92 | 60.06 | | 53.75 |
| | 17 | | | 59.23 | 58.96 | 58.00 | 56.21 | 62.90 |
| | 18 | | | 59.18 | 60.13 | 54.73 | | 57.26 |
| | 19 | | | 62.37 | 52.38 | | 61.85 | 61.69 |
| | 20 | | | 49.91 | 61.38 | 57.39 | 56.28 | 54.18 |
| | 21 | | | 65.74 | 61.17 | 57.71 | 53.03 | |
| | 22 | | | 56.37 | 58.67 | | | 53.95 |
| | 23 | | | 62.05 | 54.67 | 57.26 | 62.37 | 53.93 |
| | 24 | | | 56.07 | 59.32 | 55.77 | 51.51 | 62.76 |
| | 25 | | | 59.56 | 54.73 | 60.22 | 62.31 | 64.72 |
| | 26 | | | 56.74 | 58.47 | 53.41 | 64.42 | 59.86 |
| | 27 | | | 63.05 | 61.33 | 59.30 | 56.45 | 61.27 |
| | 28 | | | 55.74 | 54.47 | | 58.20 | 64.34 |
| | 29 | | | 62.81 | 59.30 | 57.77 | 57.68 | 61.12 |
| | 30 | | | 57.86 | 64.84 | 53.36 | 55.19 | 56.30 |
| | 31 | | | 59.72 | 59.58 | 55.12 | | 64.77 |
| | 32 | | | 52.15 | 55.81 | 61.32 | | 56.64 |
| | 33 | | 63.11 | 60.13 | 61.54 | 61.44 | 55.83 | 59.91 |
| | 34 | | 56.31 | | 61.20 | 54.80 | 60.22 | 58.76 |
| | 35 | | 61.38 | 55.92 | 56.46 | 61.15 | 55.99 | 58.08 |
| | 36 | | | 62.07 | 61.69 | 57.58 | 59.84 | 53.81 |
| | 37 | | | 59.43 | 51.94 | 57.08 | 57.53 | 54.18 |
| | 38 | | | 59.42 | 58.45 | 53.44 | 59.77 | 61.33 |
| | 39 | | | 60.24 | 61.08 | 56.97 | 58.86 | 56.95 |
| | 40 | | | 59.89 | 60.63 | 58.76 | 61.23 | 58.99 |
| | 41 | | | 54.45 | 61.89 | 54.97 | 64.39 | 62.67 |
| | 42 | | | 62.93 | 63.14 | 59.59 | 57.04 | 61.90 |
| | 43 | | | 55.21 | 61.37 | 57.88 | 56.90 | 62.24 |
| | 44 | | | 54.86 | 57.75 | 61.16 | 57.55 | 60.10 |
| | 45 | | | 58.67 | 62.24 | 55.00 | | 58.93 |
| | 46 | | | 60.10 | 66.03 | 60.04 | 59.33 | 64.86 |
| | 47 | | | 64.01 | | 61.73 | | 62.26 |
| | 48 | | | 56.26 | 56.53 | | 53.75 | 62.26 |
| | 49 | | | 64.44 | 62.27 | 58.53 | 59.12 | 62.91 |
| | 50 | | | 64.58 | | 58.73 | 60.33 | 59.44 |
| | 51 | | | | 56.51 | | 58.39 | 54.83 |
| | 52 | | | 69.34 | 63.37 | 59.45 | 62.25 | |
| | 53 | | 55.11 | 61.80 | | 64.06 | 62.87 | 64.67 |
| | 54 | | 65.30 | 65.15 | 61.30 | 58.46 | 58.68 | 62.88 |
| | 55 | | 60.55 | 63.88 | 64.56 | 59.66 | 61.92 | 55.44 |
| | 56 | | 59.15 | 64.64 | 55.24 | 58.81 | 56.11 | 57.23 |
| Replicate Cage #3 | 1 | | 54.80 | 57.10 | 54.26 | 54.64 | 61.46 | 53.34 |
| | 2 | | 58.07 | 61.24 | 51.11 | 55.75 | 57.89 | 66.32 |
| | 3 | | 57.66 | 61.71 | 52.37 | 54.99 | 56.74 | 62.53 |
| | 4 | | | 56.80 | 51.93 | 57.73 | 58.30 | 61.75 |
| | 5 | | 56.09 | 56.49 | 55.49 | 62.80 | 59.76 | 64.89 |
| | 6 | | 61.11 | 66.64 | 62.33 | 62.22 | 56.20 | 61.11 |
| | 7 | | 59.85 | 51.76 | 58.46 | | 64.29 | 64.40 |
| | 8 | | 60.86 | 60.90 | 55.98 | 59.38 | 62.94 | 58.62 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 9 | | 64.87 | 58.94 | 60.20 | 52.84 | 55.81 | 64.13 |
| | 10 | | 53.28 | 58.16 | 64.48 | | 60.59 | 55.64 |
| | 11 | | | 53.96 | 60.09 | 60.84 | 62.60 | 63.65 |
| | 12 | | 58.30 | 57.03 | 52.39 | 59.62 | 52.97 | 63.42 |
| | 13 | | 67.27 | 57.69 | 57.51 | 51.84 | 54.26 | 57.39 |
| | 14 | | 51.00 | 53.50 | 59.55 | | 54.82 | |
| | 15 | | 57.94 | 56.36 | 56.12 | 56.95 | 59.82 | |
| | 16 | | 54.56 | 57.25 | 55.53 | 53.32 | 56.85 | 60.44 |
| | 17 | | 58.31 | 66.84 | 55.87 | 60.98 | 59.90 | 61.75 |
| | 18 | | 56.55 | 60.24 | 57.60 | 54.93 | 56.35 | 57.67 |
| | 19 | | 60.76 | 54.41 | 56.47 | 55.67 | 58.10 | 55.80 |
| | 20 | | 60.42 | 58.35 | 61.55 | 54.11 | 53.32 | 61.14 |
| | 21 | | 54.01 | 63.97 | 61.37 | 50.70 | 57.51 | 58.97 |
| | 22 | | 58.21 | 63.84 | 58.83 | 61.41 | 59.33 | 63.46 |
| | 23 | | 59.57 | 58.16 | 60.91 | 58.55 | 62.49 | 64.38 |
| | 24 | | 61.39 | 58.81 | 61.97 | 63.43 | 54.27 | 65.50 |
| | 25 | | 59.84 | 54.65 | 60.49 | 62.88 | 60.66 | 59.16 |
| | 26 | | 61.30 | 65.43 | 63.59 | 58.60 | 63.10 | 62.19 |
| | 27 | | 57.12 | 67.78 | 56.25 | 59.55 | 64.58 | 64.94 |
| | 28 | | 54.75 | 67.07 | 56.61 | 63.32 | 56.07 | 66.07 |
| | 29 | | 63.12 | 65.06 | 62.76 | 53.71 | 60.04 | 67.38 |
| | 30 | | 57.64 | 61.50 | 60.85 | 63.47 | 59.01 | 63.12 |
| | 31 | | 59.90 | | | 63.10 | 54.31 | 54.29 |
| | 32 | | 62.48 | 57.53 | 56.88 | 64.17 | 53.85 | 56.03 |
| | 33 | | 56.64 | 65.51 | 63.16 | 60.84 | 55.01 | 63.85 |
| | 34 | | 60.72 | 60.54 | 59.32 | 57.50 | 57.04 | 57.17 |
| | 35 | | 58.13 | 58.51 | 64.54 | 58.40 | 57.00 | 61.07 |
| | 36 | | 61.67 | 52.76 | 57.08 | 62.12 | 59.12 | 62.87 |
| | 37 | | 59.67 | 59.28 | 60.90 | | 57.03 | 56.41 |
| | 38 | | 60.51 | 61.43 | 63.00 | 61.48 | 62.39 | 61.55 |
| | 39 | | 61.14 | 61.83 | 59.85 | 60.29 | 56.10 | 59.81 |
| | 40 | | | | 63.11 | 62.30 | 55.49 | 61.80 |
| | 41 | | 61.31 | 64.05 | 54.90 | 56.84 | 59.64 | |
| | 42 | | 63.59 | 60.09 | 67.02 | 70.19 | 57.61 | 58.70 |
| | 43 | | 60.41 | 63.86 | 64.09 | 63.42 | 54.13 | 57.59 |
| | 44 | | 60.29 | 61.76 | 61.24 | 60.27 | 59.38 | 63.31 |
| | 45 | | 55.28 | 60.17 | 62.14 | 59.19 | 56.07 | 57.95 |
| | 46 | | 63.51 | 67.54 | 58.25 | 67.45 | 62.15 | 63.60 |
| | 47 | | 56.14 | 57.09 | 57.28 | 58.68 | 61.16 | 59.78 |
| | 48 | | 57.68 | | 55.21 | 65.54 | 63.66 | 56.69 |
| | 49 | | 60.19 | 59.00 | 56.38 | 58.99 | 58.82 | 62.00 |
| | 50 | | 66.03 | 61.86 | | 57.15 | 58.46 | 60.09 |
| | 51 | | | 63.46 | 55.99 | 65.67 | 61.31 | 66.35 |
| | 52 | | 58.26 | 62.34 | 59.86 | 64.75 | 62.84 | 61.04 |
| | 53 | | 56.16 | 64.51 | 61.10 | 59.59 | 60.65 | 61.04 |
| | 54 | | 55.27 | 69.39 | 56.37 | 56.29 | 59.13 | 57.34 |
| | 55 | | 59.42 | 60.26 | | 64.51 | 60.49 | 55.77 |
| | 56 | | 66.68 | | 58.89 | 61.13 | 57.32 | 61.32 |

| End-of-Test Tissue Weight (g-wet) by Station | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Overall Mean |
| | mean | #DIV/0! | 6.83 | 7.50 | 6.02 | 6.16 | 5.50 | 5.84 | 6.30 |
| | min | 0 | 3.65 | 2.53 | 2.87 | 3.76 | 2.35 | 1.9 | 1.9 |
| | max | 0 | 10.21 | 13.38 | 10.59 | 10.4 | 8.56 | 10.37 | 13.38 |
| | stdev | #DIV/0! | 1.40 | 1.84 | 1.50 | 1.55 | 1.04 | 1.39 | 1.62 |
| | N | 0 | 102 | 138 | 133 | 132 | 127 | 142 | 774 |
| | 95 CI | #DIV/0! | 0.2720 | 0.3077 | 0.2554 | 0.2638 | 0.1817 | 0.2284 | 0.1144 |
| | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | |
| Replicate Cage # | 1 | | 4.23 | | 4.27 | 3.76 | | | |
| | 2 | | | 6.71 | 5.48 | 5.80 | | 5.68 | |
| | 3 | | 7.25 | 6.05 | 5.74 | 4.95 | | 4.64 | |
| | 4 | | 6.71 | 7.27 | 3.43 | 3.98 | 4.41 | 4.31 | |
| | 5 | | 3.76 | 6.12 | | 4.14 | | 6.75 | |
| | 6 | | 7.99 | 4.24 | | 4.41 | | 5.43 | |
| | 7 | | 5.58 | 3.87 | 3.93 | 3.90 | | 4.96 | |
| | 8 | | 7.78 | 4.28 | 5.43 | 4.54 | | 3.01 | |
| | 9 | | 5.43 | | 4.92 | 5.48 | 5.05 | 3.71 | |
| | 10 | | 7.04 | 7.76 | 5.65 | 4.95 | | 4.97 | |
| | 11 | | 5.92 | 5.27 | 4.48 | 4.20 | | 5.21 | |
| | 12 | | 4.64 | 8.56 | 3.50 | 4.52 | | 4.41 | |
| | 13 | | 6.75 | 6.13 | | 4.08 | 5.03 | 3.97 | |
| | 14 | | | 7.87 | 4.70 | 6.13 | | 4.84 | |
| | 15 | | 6.85 | 6.79 | 5.76 | | | 6.80 | |
| | 16 | | 5.18 | 6.65 | 6.11 | 5.27 | | 4.52 | |
| | 17 | | 6.57 | 6.08 | 6.50 | 5.64 | | 6.68 | |
| | 18 | | 7.77 | | 5.60 | 4.49 | | 4.24 | |
| | 19 | | | 9.07 | | 3.99 | | 7.16 | |
| | 20 | | 7.06 | | 4.96 | 6.29 | | 6.15 | |
| | 21 | | 7.39 | 8.06 | | 5.24 | | 4.89 | |
| | 22 | | 8.29 | 7.69 | 5.14 | 7.25 | 5.96 | 4.04 | |
| | 23 | | 7.50 | 5.90 | | 4.69 | 4.96 | 5.64 | |
| | 24 | | 5.85 | 6.81 | 7.53 | 4.32 | 5.19 | 5.00 | |
| | 25 | | 6.38 | 6.26 | 5.91 | 4.34 | 4.07 | 7.43 | |
| | 26 | | 8.43 | 6.83 | 5.29 | 6.71 | 5.89 | 3.29 | |
| | 27 | | 4.79 | 11.54 | 6.33 | | | 5.15 | |
| | 28 | | 8.09 | 9.37 | 3.65 | | 6.56 | 7.21 | |
| | 29 | | 4.77 | 8.17 | 6.56 | 4.68 | 4.98 | 6.08 | |
| | 30 | | 5.31 | 8.31 | 6.60 | 6.84 | 6.70 | 4.70 | |
| | 31 | | 5.74 | 9.22 | 7.55 | | 5.89 | 6.56 | |
| | 32 | | 4.93 | 6.92 | 4.83 | 5.26 | 7.46 | 7.45 | |
| | 33 | | 5.64 | 6.65 | 9.79 | | 6.94 | 7.73 | |
| | 34 | | | 9.19 | 4.60 | 4.65 | 6.01 | 5.22 | |
| | 35 | | 6.16 | 7.26 | 5.12 | | 6.05 | 6.13 | |
| | 36 | | 6.80 | 10.12 | 5.48 | 6.52 | 7.93 | 7.38 | |
| | 37 | | 6.88 | 7.35 | | 4.49 | 5.56 | 5.14 | |
| | 38 | | 5.91 | 8.88 | 5.64 | 4.53 | 4.56 | 6.17 | |
| | 39 | | 8.81 | 6.93 | 7.63 | 4.84 | 4.01 | 5.64 | |
| | 40 | | 7.66 | 9.89 | 8.78 | 4.46 | 6.30 | 5.53 | |
| | 41 | | 5.34 | 8.05 | 8.34 | | 4.36 | 4.95 | |
| | 42 | | 6.25 | 10.67 | | 5.11 | 6.23 | 5.45 | |
| | 43 | | 5.07 | 9.80 | 5.80 | 5.56 | 3.91 | 4.99 | |
| | 44 | | 7.37 | 9.04 | | 6.38 | 6.84 | 5.68 | |
| | 45 | | 6.06 | 9.33 | 9.17 | 4.53 | 5.66 | 7.93 | |
| | 46 | | 5.98 | 11.12 | | 6.42 | 5.15 | 5.92 | |
| | 47 | | 7.97 | 9.24 | 6.77 | 4.93 | 5.23 | 6.28 | |
| | 48 | | 7.36 | 7.73 | 7.33 | 7.03 | 4.46 | 5.76 | |
| | 49 | | 9.53 | | 7.31 | 5.31 | 6.14 | | |
| | 50 | | | | 6.81 | | 7.18 | | |
| | 51 | | | | | | 3.94 | | |
| | 52 | | | | | | 5.10 | | |

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|---|---|---|---|---|---|---|---|---|---|
| | 53 | | | | | | 5.36 | | |
| | 54 | | | | | | 3.88 | | |
| | 55 | | | | | | 6.17 | | |
| | 56 | | | | | | 5.11 | | |
| Replicate Cage # | 1 | | 5.49 | 6.47 | 4.91 | 5.47 | 3.67 | 2.70 | |
| | 2 | | 5.90 | 9.41 | | 3.91 | 5.53 | 4.92 | |
| | 3 | | 7.63 | 7.61 | 3.95 | 6.87 | 5.43 | 8.37 | |
| | 4 | | | 5.22 | 4.34 | 4.99 | 5.33 | 4.91 | |
| | 5 | | | | | 4.67 | 5.68 | 5.19 | |
| | 6 | | | 6.78 | 6.69 | 4.34 | 4.55 | 5.86 | |
| | 7 | | | 8.33 | 7.25 | 6.34 | | 5.47 | |
| | 8 | | | 4.46 | 5.97 | | 4.42 | 5.61 | |
| | 9 | | | | 4.74 | 7.62 | | 4.45 | |
| | 10 | | | 9.89 | 4.96 | 6.68 | 4.00 | 1.90 | |
| | 11 | | | 5.30 | | 6.92 | 6.60 | 6.52 | |
| | 12 | | | 8.04 | 3.75 | 7.69 | 7.36 | 7.10 | |
| | 13 | | | 5.78 | 4.80 | 7.05 | 5.37 | 5.44 | |
| | 14 | | | 6.46 | 5.19 | 8.10 | 6.08 | 4.61 | |
| | 15 | | | 8.10 | 5.32 | 4.13 | 5.06 | 4.04 | |
| | 16 | | | 7.92 | 3.78 | 6.70 | | 5.26 | |
| | 17 | | | 6.91 | 5.30 | 5.53 | 4.33 | 5.30 | |
| | 18 | | | 5.04 | 4.94 | 5.70 | | 4.14 | |
| | 19 | | | 6.49 | 4.45 | | 5.98 | 5.48 | |
| | 20 | | | 2.53 | 6.35 | 6.58 | 5.17 | 5.56 | |
| | 21 | | | 10.24 | 5.13 | 4.99 | 4.85 | | |
| | 22 | | | 8.34 | 4.97 | | | 3.97 | |
| | 23 | | | 9.05 | 5.99 | 4.06 | 5.73 | 3.28 | |
| | 24 | | | 7.38 | 3.62 | 4.09 | 2.35 | 7.04 | |
| | 25 | | | 7.19 | 3.71 | 7.68 | 6.39 | 8.85 | |
| | 26 | | | 3.92 | 4.76 | 4.55 | 7.60 | 6.59 | |
| | 27 | | | 5.98 | 6.24 | 10.40 | 4.01 | 6.09 | |
| | 28 | | | 6.32 | 3.84 | | 4.91 | 5.53 | |
| | 29 | | | 7.01 | 4.67 | 5.52 | 5.60 | 5.66 | |
| | 30 | | | 7.29 | 7.21 | 5.44 | 4.66 | 6.32 | |
| | 31 | | | 8.47 | 5.42 | 5.59 | | 8.70 | |
| | 32 | | | 4.00 | 7.49 | 9.07 | | 5.09 | |
| | 33 | | 7.31 | 5.75 | 5.32 | 5.28 | 5.24 | 4.21 | |
| | 34 | | 7.19 | | 5.63 | 5.47 | 6.46 | 5.76 | |
| | 35 | | 7.09 | 8.19 | 7.34 | 8.94 | 4.88 | 5.37 | |
| | 36 | | | 9.56 | 6.80 | 5.98 | 5.98 | 7.09 | |
| | 37 | | | 8.03 | 2.87 | 6.31 | 6.10 | 5.00 | |
| | 38 | | | 7.68 | 4.38 | 6.68 | 6.01 | 5.96 | |
| | 39 | | | 10.09 | 5.32 | 5.58 | 4.07 | 6.11 | |
| | 40 | | | 6.04 | 5.50 | 8.68 | 5.89 | 5.29 | |
| | 41 | | | 6.30 | 6.75 | 5.84 | 8.56 | 4.99 | |
| | 42 | | | 9.39 | 4.95 | 5.48 | 5.38 | 6.39 | |
| | 43 | | | 5.44 | 7.71 | 7.79 | 6.53 | 5.58 | |
| | 44 | | | 4.09 | 4.91 | 9.07 | 5.28 | 5.22 | |
| | 45 | | | 6.67 | 5.60 | 6.57 | | 6.26 | |
| | 46 | | | 7.20 | 9.06 | 7.89 | 6.28 | 8.84 | |
| | 47 | | 5.98 | 7.33 | | 7.90 | | 8.54 | |
| | 48 | | 6.95 | 7.85 | 7.08 | | 4.04 | 6.73 | |
| | 49 | | 8.37 | 10.82 | 4.28 | 6.89 | 5.16 | 5.79 | |
| | 50 | | 5.49 | 7.02 | | 8.20 | 6.82 | 3.81 | |
| | 51 | | | | | | | | |
| | 52 | | | | | | | | |
| | 53 | | | | | | | | |
| | 54 | | | | | | | | |
| | 55 | | | | | | | | |
| | 56 | | | | | | | | |
| Replicate Cage # | 1 | | 6.60 | 7.58 | 5.73 | 4.90 | 5.49 | | |
| | 2 | | 6.67 | 6.19 | 5.28 | 4.97 | 5.67 | 6.09 | |
| | 3 | | 8.70 | 6.38 | 6.16 | 5.59 | 4.75 | 6.54 | |
| | 4 | | | 5.42 | 4.77 | 7.83 | 3.36 | 6.77 | |
| | 5 | | 8.23 | 6.40 | 6.41 | 5.98 | 4.32 | 10.37 | |
| | 6 | | 9.86 | 12.06 | 5.45 | 6.60 | 4.38 | 5.05 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 7 | | 7.70 | 6.02 | 6.84 | | 6.90 | 7.38 | |
| | 8 | | 8.67 | 6.30 | 5.23 | 6.32 | 5.64 | 4.32 | |
| | 9 | | 6.51 | 6.10 | 7.61 | 6.35 | 6.47 | 6.88 | |
| | 10 | | 7.86 | 5.39 | 6.36 | | 5.25 | 5.94 | |
| | 11 | | | 6.37 | 7.36 | 5.68 | 7.40 | 8.33 | |
| | 12 | | 8.72 | 7.13 | 4.46 | 6.07 | 5.18 | 6.29 | |
| | 13 | | 7.22 | 6.90 | 6.99 | 4.95 | 4.51 | 6.38 | |
| | 14 | | 3.65 | 7.20 | 7.54 | | 4.46 | | |
| | 15 | | 7.89 | 7.63 | 5.68 | 6.95 | 7.33 | | |
| | 16 | | 6.95 | 6.90 | 6.94 | 6.71 | 5.15 | 6.77 | |
| | 17 | | 6.62 | 7.61 | 6.81 | 8.34 | 6.49 | 7.13 | |
| | 18 | | 5.34 | 6.96 | 6.48 | 6.14 | 4.04 | 6.50 | |
| | 19 | | 5.30 | 7.67 | 4.70 | 6.57 | 6.12 | 6.42 | |
| | 20 | | 8.49 | 9.42 | 7.22 | 5.50 | 5.42 | 4.32 | |
| | 21 | | 8.14 | 7.21 | 6.35 | | 5.92 | 4.62 | |
| | 22 | | 5.06 | 9.19 | 4.91 | 7.28 | 6.19 | 6.82 | |
| | 23 | | 8.92 | 5.11 | 5.68 | 6.05 | 6.55 | 7.79 | |
| | 24 | | 9.81 | 5.70 | 7.13 | 8.49 | | 7.07 | |
| | 25 | | 8.02 | 6.75 | 4.14 | 6.19 | 6.20 | 5.21 | |
| | 26 | | 8.03 | 8.38 | 7.01 | 9.76 | 5.72 | 6.08 | |
| | 27 | | 4.19 | 8.82 | 6.58 | 5.37 | 6.82 | 7.41 | |
| | 28 | | 6.89 | 10.01 | 5.10 | 6.58 | 5.08 | 6.28 | |
| | 29 | | 5.21 | 7.25 | 8.31 | 6.37 | 5.04 | 6.57 | |
| | 30 | | 7.90 | 8.67 | 9.21 | 6.88 | 6.39 | 4.79 | |
| | 31 | | 5.49 | | | 9.45 | 4.80 | 3.74 | |
| | 32 | | 8.13 | 7.33 | 5.95 | 7.87 | 5.67 | 4.96 | |
| | 33 | | 6.00 | 9.50 | 7.67 | 9.44 | 6.84 | 5.41 | |
| | 34 | | 9.41 | 7.19 | 4.54 | 5.69 | 5.28 | 6.26 | |
| | 35 | | 6.27 | 3.99 | 10.54 | 6.64 | 4.03 | 8.45 | |
| | 36 | | 6.31 | 7.61 | 7.42 | 9.56 | 6.46 | 8.18 | |
| | 37 | | 10.21 | 5.29 | 5.46 | | 6.12 | 3.80 | |
| | 38 | | 5.57 | 7.97 | 10.59 | 9.53 | 6.12 | 7.70 | |
| | 39 | | 6.41 | 10.86 | 8.23 | 6.10 | 3.98 | 5.06 | |
| | 40 | | | | 6.88 | 6.43 | 5.02 | 8.03 | |
| | 41 | | 6.63 | 9.73 | 6.97 | 4.27 | 5.00 | | |
| | 42 | | 6.75 | 7.60 | 7.08 | 8.61 | 3.94 | 6.81 | |
| | 43 | | 8.85 | 7.40 | 8.72 | 8.12 | 4.55 | 5.05 | |
| | 44 | | 8.00 | 8.43 | 5.42 | 8.19 | 5.60 | 8.55 | |
| | 45 | | 5.49 | 13.38 | 7.18 | 5.65 | 5.00 | 4.66 | |
| | 46 | | 6.87 | 11.84 | 8.69 | 9.33 | 5.09 | 5.26 | |
| | 47 | | 7.08 | 7.33 | 6.85 | 4.70 | 6.43 | 6.54 | |
| | 48 | | 5.70 | | 5.17 | 8.73 | 6.81 | 5.68 | |
| | 49 | | 5.97 | 8.24 | 7.02 | 5.86 | 6.04 | 7.65 | |
| | 50 | | 8.55 | 10.31 | | 7.25 | 5.41 | 5.38 | |
| | 51 | | | | | | | | |
| | 52 | | | | | | | | |
| | 53 | | | | | | | | |
| | 54 | | | | | | | | |
| | 55 | | | | | | | | |
| | 56 | | | | | | | | |

## End-of-Test Shell Weight (g-wet) by Station

| | | | | | | | | | Overall Mean |
|---|---|---|---|---|---|---|---|---|---|
| | mean | #DIV/0! | 6.33 | 6.77 | 5.74 | 5.70 | 5.87 | 6.16 | 6.09 |
| | min | 0 | 3.72 | 3.98 | 4.04 | 3.95 | 4.16 | 3.1 | 3.1 |
| | max | 0 | 8.95 | 9.73 | 8.7 | 8.55 | 10.75 | 8.86 | 10.75 |
| | stdev | #DIV/0! | 0.93 | 1.02 | 0.78 | 0.82 | 0.86 | 0.89 | 0.96 |
| | N | 0 | 103 | 137 | 133 | 132 | 127 | 141 | 773 |
| | 95 CI | #DIV/0! | 0.1798 | 0.1701 | 0.1324 | 0.1404 | 0.1498 | 0.1471 | 0.0679 |
| | | | | | | | | | |
| | Cage#: | 2, 13, 22 | 6, 17, 19 | 5, 7, 21 | 11, 16, 23 | 1, 9, 18 | 4, 8, 14 | 10, 15, 24 | |
| | | Station 1 | Station 2 | Station 3 | Station 4 | Station 5 | Station 6 | Station 7 | |
| Replicate Cage # | 1 | | 5.10 | | 5.44 | 4.50 | | | |
| | 2 | | | 6.41 | 6.56 | 4.96 | | 5.36 | |
| | 3 | | 6.57 | 5.61 | 6.10 | 5.32 | | 4.27 | |
| | 4 | | 5.10 | 6.21 | 4.50 | 4.39 | 5.51 | 5.80 | |
| | 5 | | 6.19 | 5.28 | | 3.95 | | 7.58 | |
| | 6 | | 4.19 | 6.12 | | 5.72 | | 5.68 | |
| | 7 | | 6.35 | 5.52 | 4.63 | 5.22 | | 4.94 | |
| | 8 | | 4.80 | 5.37 | 5.52 | 5.02 | | 4.85 | |
| | 9 | | 7.24 | | 4.43 | 5.24 | 4.82 | 4.22 | |
| | 10 | | 5.16 | 6.91 | 5.35 | 5.28 | | 5.01 | |
| | 11 | | 6.32 | 6.82 | 4.31 | 5.15 | | 5.29 | |
| | 12 | | 5.39 | 7.48 | 4.22 | 5.59 | | 4.75 | |
| | 13 | | 5.06 | 6.66 | | 4.87 | 5.09 | 5.17 | |
| | 14 | | | 6.46 | 5.27 | 5.80 | | 5.27 | |
| | 15 | | 6.46 | 6.71 | 5.12 | | | 6.32 | |
| | 16 | | 3.72 | 5.14 | 5.16 | 5.30 | | 6.08 | |
| | 17 | | 6.33 | 6.29 | 5.68 | 6.54 | | 7.13 | |
| | 18 | | 5.43 | | 5.62 | 5.28 | | 4.69 | |
| | 19 | | | 8.11 | | 5.03 | | 6.63 | |
| | 20 | | 6.79 | | 5.21 | 4.81 | | 6.20 | |
| | 21 | | 6.93 | 7.74 | | 5.60 | | 5.21 | |
| | 22 | | 6.90 | 6.07 | 5.43 | 6.35 | 4.86 | 5.14 | |
| | 23 | | 5.22 | 6.67 | | 4.69 | 4.86 | 5.08 | |
| | 24 | | 6.44 | 7.46 | 5.92 | 6.13 | 6.22 | 5.52 | |
| | 25 | | 5.67 | 6.60 | 5.85 | 5.76 | 5.24 | 5.57 | |
| | 26 | | 5.26 | 5.72 | 5.62 | 4.94 | 5.60 | 4.18 | |
| | 27 | | 6.04 | 9.73 | 5.85 | | | 5.10 | |
| | 28 | | 6.63 | 7.67 | 4.92 | | 6.24 | 6.52 | |
| | 29 | | 5.52 | 6.81 | 5.87 | 5.14 | 5.77 | 5.83 | |
| | 30 | | 5.41 | 6.13 | 5.23 | 6.46 | 7.04 | 5.09 | |
| | 31 | | 5.16 | 6.97 | 6.15 | | 7.41 | 6.19 | |
| | 32 | | 5.40 | 6.25 | 5.61 | 5.37 | 5.79 | 7.40 | |
| | 33 | | 6.07 | 6.39 | 7.35 | | 6.32 | 6.68 | |
| | 34 | | | 7.21 | 5.47 | 4.94 | 5.42 | 6.11 | |
| | 35 | | 6.11 | 8.03 | 6.13 | | 5.95 | 5.95 | |
| | 36 | | 6.19 | 7.03 | 5.54 | 5.26 | 6.30 | 6.59 | |
| | 37 | | 6.25 | 8.31 | | 5.16 | 6.44 | 6.85 | |
| | 38 | | 5.86 | 6.46 | 4.86 | 5.47 | 5.77 | 6.00 | |
| | 39 | | 5.84 | 6.54 | 6.43 | 4.96 | 4.54 | 5.58 | |
| | 40 | | 6.34 | 7.27 | 4.73 | 5.04 | 5.78 | 6.44 | |
| | 41 | | 8.95 | 7.51 | 6.26 | | 5.51 | 5.86 | |
| | 42 | | 6.70 | 7.60 | | 7.03 | 5.94 | 5.97 | |
| | 43 | | 6.14 | 7.66 | 4.70 | 5.66 | 5.14 | 7.82 | |
| | 44 | | 5.37 | 7.64 | | 5.45 | 5.38 | 7.22 | |
| | 45 | | 5.68 | 7.51 | 5.85 | 6.18 | 6.03 | 8.13 | |
| | 46 | | 6.78 | 8.13 | | 5.86 | 6.70 | 6.83 | |
| | 47 | | 5.93 | 7.82 | 5.17 | 6.22 | 5.33 | 5.99 | |
| | 48 | | 5.77 | 7.68 | 5.62 | 5.31 | 6.07 | 8.08 | |
| | 49 | | 6.23 | | 5.41 | 4.88 | 5.76 | | |
| | 50 | | 6.80 | | 5.96 | | 5.69 | | |
| | 51 | | | | | | 5.63 | | |
| | 52 | | | | | | 5.68 | | |
| | 53 | | | | | | 7.42 | | |
| | 54 | | | | | | 5.10 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 55 | | | | | | 7.63 | | |
| | 56 | | | | | | 6.29 | | |
| Replicate Cage # | 1 | | 6.68 | 6.22 | 4.57 | 5.59 | 5.55 | 4.38 | |
| | 2 | | 6.47 | 7.32 | | 4.31 | 5.74 | 5.66 | |
| | 3 | | 7.19 | 7.08 | 5.49 | 5.93 | 5.59 | 7.08 | |
| | 4 | | | 6.80 | 5.69 | 4.82 | 5.52 | 4.70 | |
| | 5 | | | | | 5.29 | 5.19 | 5.64 | |
| | 6 | | | 7.29 | 4.14 | 4.59 | 4.24 | 5.30 | |
| | 7 | | | 6.59 | 7.02 | 5.92 | | 6.04 | |
| | 8 | | | 4.84 | 6.01 | | 6.36 | 6.04 | |
| | 9 | | | | 5.67 | 6.71 | | 5.95 | |
| | 10 | | | 7.58 | 5.54 | 5.39 | 4.38 | 3.10 | |
| | 11 | | | 6.33 | | 5.46 | 6.00 | 6.18 | |
| | 12 | | | 7.39 | 4.77 | 5.64 | 6.07 | 6.58 | |
| | 13 | | | 5.53 | 5.80 | 5.18 | 5.61 | 5.33 | |
| | 14 | | | 7.29 | 5.90 | 5.46 | 5.29 | 6.28 | |
| | 15 | | | 6.61 | 4.76 | 4.42 | 10.75 | 5.39 | |
| | 16 | | | 6.23 | 5.05 | 5.76 | | 4.75 | |
| | 17 | | | 7.04 | 5.56 | 6.07 | 5.00 | 6.62 | |
| | 18 | | | 5.91 | 6.32 | 5.32 | | 5.60 | |
| | 19 | | | 6.03 | 5.72 | | 6.13 | 5.16 | |
| | 20 | | | 3.98 | 5.58 | 6.18 | 5.33 | 6.85 | |
| | 21 | | | 8.07 | 5.59 | 6.02 | 5.46 | | |
| | 22 | | | 6.00 | 5.76 | | | 4.25 | |
| | 23 | | | 9.19 | 5.63 | 4.42 | 6.98 | 5.63 | |
| | 24 | | | 7.18 | 5.68 | 4.86 | 4.22 | 6.42 | |
| | 25 | | | 6.83 | 4.62 | 6.98 | 6.60 | 7.03 | |
| | 26 | | | 4.76 | 5.62 | 4.75 | 6.15 | 6.92 | |
| | 27 | | | 7.05 | 6.86 | 6.89 | 5.86 | 6.36 | |
| | 28 | | | 7.03 | 4.80 | | 6.07 | 7.03 | |
| | 29 | | | 6.96 | 5.50 | 5.67 | 6.79 | 7.30 | |
| | 30 | | | 6.87 | 5.67 | 4.93 | 5.99 | 5.91 | |
| | 31 | | | 8.04 | 5.48 | 5.29 | | 8.86 | |
| | 32 | | | 5.92 | 6.38 | 6.37 | | 6.63 | |
| | 33 | | 8.21 | 6.42 | 5.74 | 5.88 | 4.75 | 5.37 | |
| | 34 | | 6.63 | | 6.02 | 5.73 | 6.41 | 5.80 | |
| | 35 | | 8.01 | 4.65 | 5.32 | 6.80 | 5.73 | 6.21 | |
| | 36 | | | 6.39 | 6.88 | 6.15 | 6.58 | 5.82 | |
| | 37 | | | 8.75 | 4.04 | 6.23 | 5.51 | 5.44 | |
| | 38 | | | 7.13 | 5.21 | 5.02 | 5.87 | 6.75 | |
| | 39 | | | 8.17 | 6.64 | 6.07 | 4.75 | 6.66 | |
| | 40 | | | 7.31 | 6.56 | 6.49 | 5.61 | 6.27 | |
| | 41 | | | 6.32 | 6.51 | 5.60 | 8.16 | 5.98 | |
| | 42 | | | 8.13 | 5.67 | 5.74 | 5.45 | 6.74 | |
| | 43 | | | 5.57 | 6.46 | 7.20 | 6.20 | 6.52 | |
| | 44 | | | 5.22 | 4.56 | 5.65 | 5.42 | 6.65 | |
| | 45 | | | 6.27 | 6.55 | 5.79 | | 6.69 | |
| | 46 | | | 6.74 | 7.15 | 6.46 | 5.85 | 7.04 | |
| | 47 | | 7.13 | 7.99 | | 6.86 | | 7.36 | |
| | 48 | | 8.49 | 7.75 | 6.27 | | 4.29 | 6.98 | |
| | 49 | | 7.65 | 8.56 | 6.07 | 5.74 | 6.05 | 6.55 | |
| | 50 | | 6.44 | 7.84 | | 5.83 | 6.64 | 5.72 | |
| | 51 | | | | | | | | |
| | 52 | | | | | | | | |
| | 53 | | | | | | | | |
| | 54 | | | | | | | | |
| | 55 | | | | | | | | |
| | 56 | | | | | | | | |
| Replicate Cage # | 1 | | 6.40 | 7.10 | 5.48 | 5.26 | 5.65 | | |
| | 2 | | 6.37 | 6.74 | 5.50 | 4.63 | 6.05 | 6.84 | |
| | 3 | | 7.49 | 6.12 | 4.77 | 5.38 | 5.57 | 5.86 | |
| | 4 | | | 6.38 | 4.83 | 6.03 | 4.54 | 6.01 | |
| | 5 | | 5.37 | 5.33 | 4.89 | 5.80 | 5.77 | 7.50 | |
| | 6 | | 7.49 | 8.60 | 5.88 | 6.11 | 5.33 | 5.55 | |
| | 7 | | 7.97 | 4.78 | 5.52 | | 5.97 | 6.92 | |
| | 8 | | 6.26 | 6.78 | 5.88 | 5.19 | 6.53 | 6.14 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 9 | | 6.88 | 6.40 | 6.54 | 5.13 | 6.57 | 6.63 | |
| | 10 | | 6.36 | 5.59 | 6.59 | | 5.80 | 5.40 | |
| | 11 | | | 5.21 | 7.00 | 5.30 | 7.08 | 6.98 | |
| | 12 | | 6.90 | 6.27 | 4.73 | 5.11 | 5.02 | 6.01 | |
| | 13 | | 7.49 | 6.13 | 6.45 | 4.55 | 4.81 | 6.56 | |
| | 14 | | 3.78 | 5.39 | 5.57 | | 5.81 | | |
| | 15 | | 5.73 | 6.24 | 5.44 | 7.31 | 6.47 | | |
| | 16 | | 5.87 | 6.18 | 5.67 | 5.07 | 5.78 | 6.27 | |
| | 17 | | 6.16 | 6.00 | 5.39 | 6.46 | 6.06 | 6.17 | |
| | 18 | | 4.56 | 5.93 | 6.22 | 4.90 | 4.79 | 5.96 | |
| | 19 | | 5.75 | 7.18 | 4.63 | 5.20 | 6.07 | 6.16 | |
| | 20 | | 7.64 | 7.21 | 7.01 | 5.01 | 5.92 | 5.93 | |
| | 21 | | 5.77 | 6.43 | 5.55 | | 5.83 | 5.66 | |
| | 22 | | 5.49 | 6.10 | 5.10 | 6.66 | 6.30 | 6.38 | |
| | 23 | | 6.78 | 5.54 | 5.90 | 5.63 | 6.08 | 6.46 | |
| | 24 | | 5.79 | 6.35 | 5.70 | 5.92 | | 7.01 | |
| | 25 | | 6.56 | 6.20 | 5.98 | 6.42 | 5.54 | 6.29 | |
| | 26 | | 6.23 | 6.36 | 6.48 | 5.56 | 6.28 | 5.86 | |
| | 27 | | 5.21 | 7.48 | 6.24 | 4.93 | 7.07 | 7.24 | |
| | 28 | | 7.01 | 8.13 | 6.31 | 5.28 | 5.87 | 7.27 | |
| | 29 | | 6.65 | 5.79 | 6.01 | 6.02 | 5.85 | 6.58 | |
| | 30 | | 7.15 | 7.86 | 6.57 | 8.08 | 5.46 | 5.59 | |
| | 31 | | 7.47 | | | 8.06 | 5.20 | 5.83 | |
| | 32 | | 6.62 | 5.76 | 5.32 | 6.74 | 5.82 | 6.65 | |
| | 33 | | 5.25 | 8.78 | 6.86 | 7.22 | 6.52 | 6.37 | |
| | 34 | | 7.09 | 5.90 | 4.69 | 5.11 | 6.94 | 7.03 | |
| | 35 | | 6.80 | 5.43 | 8.70 | 6.59 | 5.14 | 7.01 | |
| | 36 | | 6.82 | 5.83 | 6.15 | 6.39 | 6.86 | 5.93 | |
| | 37 | | 6.57 | 7.52 | 5.30 | | 5.35 | 6.51 | |
| | 38 | | 6.74 | 7.23 | 8.12 | 5.96 | 6.85 | 6.19 | |
| | 39 | | 6.96 | 8.73 | 5.97 | 5.09 | 4.16 | 6.94 | |
| | 40 | | | | 6.67 | 6.18 | 5.36 | | |
| | 41 | | 7.20 | 8.38 | 6.26 | 5.26 | 6.24 | | |
| | 42 | | 6.32 | 7.80 | 6.77 | 8.55 | 5.28 | 7.58 | |
| | 43 | | 6.92 | 6.32 | 6.18 | 6.45 | 4.60 | 6.25 | |
| | 44 | | 7.07 | 6.77 | 5.61 | 5.91 | 6.30 | 7.23 | |
| | 45 | | 5.84 | 8.28 | 7.22 | 7.23 | 5.36 | 5.26 | |
| | 46 | | 6.42 | 6.35 | 6.60 | 5.83 | 7.32 | 7.38 | |
| | 47 | | 6.50 | | 5.93 | 7.78 | 6.02 | 7.34 | |
| | 48 | | 6.98 | | 4.89 | 5.09 | 6.92 | 6.27 | |
| | 49 | | 7.50 | 6.82 | 5.82 | 6.73 | 6.21 | 6.80 | |
| | 50 | | 7.57 | 7.24 | | 6.61 | 6.66 | 6.81 | |
| | 51 | | | | | | | | |
| | 52 | | | | | | | | |
| | 53 | | | | | | | | |
| | 54 | | | | | | | | |
| | 55 | | | | | | | | |
| | 56 | | | | | | | | |

## Waterman Point (IWP) - WAWW (g-wet) and Shell Length (mm)

| | | | | | | |
|---|---|---|---|---|---|---|
| Grand mean | 47.91 | 11.32 | | | | |
| min | 38.80 | 6.71 | | | | |
| max | 60.40 | 21.29 | | | | |
| stdev | 4.60 | 2.95 | | | | |
| **count** | 69 | 69 | | | | |
| **95% CI** | 1.09 | 0.70 | | | | |
| mean | 47.03 | 10.70 | 48.34 | 11.74 | 48.36 | 11.53 |
| min | 40.02 | 7.12 | 38.8 | 6.71 | 41.89 | 6.86 |
| max | 54.82 | 15.75 | 60.4 | 21.29 | 57.11 | 18.19 |
| stdev | 4.06 | 2.56 | 5.15 | 3.32 | 4.61 | 2.96 |
| **count** | **23** | **23** | **23** | **23** | **23** | **23** |
| **2 SE** | 1.695 | 1.066 | 2.147 | 1.383 | 1.921 | 1.235 |
| | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** |
| | **length** | **weight** | **length** | **weight** | **length** | **weight** |
| 1 | 50.79 | 13.93 | 46.36 | 10.53 | 48.87 | 11.88 |
| 2 | 51.56 | 13.6 | 50.95 | 12.87 | 50.31 | 11.98 |
| 3 | 48.12 | 10.2 | 60.4 | 21.29 | 54.91 | 16.83 |
| 4 | 47.02 | 10.68 | 48.4 | 11.47 | 42.82 | 8.57 |
| 5 | 40.86 | 7.2 | 38.8 | 6.71 | 52.2 | 12.55 |
| 6 | 52.07 | 14.64 | 55.94 | 15.09 | 50.58 | 12.71 |
| 7 | 53.45 | 15.75 | 52.92 | 14.59 | 44.52 | 8.86 |
| 8 | 49.69 | 12.41 | 50.59 | 11.75 | 56.81 | 18.19 |
| 9 | 54.82 | 13.99 | 43.55 | 9.03 | 47.14 | 10.41 |
| 10 | 45.89 | 10.4 | 44.39 | 9.2 | 53.09 | 12.65 |
| 11 | 42.68 | 8.79 | 41.99 | 8.02 | 57.11 | 18.08 |
| 12 | 47.24 | 9.8 | 47.19 | 10.19 | 48.61 | 11.41 |
| 13 | 47.69 | 10.23 | 44.09 | 9.81 | 45.98 | 9.64 |
| 14 | 42.81 | 8.02 | 50.53 | 13.17 | 49.27 | 11.7 |
| 15 | 44.62 | 9.32 | 54.99 | 15.8 | 45.8 | 10.17 |
| 16 | 47.64 | 12.27 | 47.85 | 15.13 | 47.15 | 11.43 |
| 17 | 51.66 | 13.42 | 54.01 | 14.92 | 41.89 | 9.07 |
| 18 | 43.78 | 8.04 | 45.03 | 9.21 | 42.94 | 8.35 |
| 19 | 46.65 | 9.59 | 50.63 | 12.07 | 42.15 | 6.86 |
| 20 | 45.62 | 9.57 | 44.41 | 9.63 | 46.25 | 11.52 |
| 21 | 44.67 | 9.71 | 48.3 | 10.02 | 42.26 | 8.1 |
| 22 | 42.4 | 7.12 | 41.95 | 7.81 | 49.14 | 11.6 |
| 23 | 40.02 | 7.47 | 48.63 | 11.68 | 52.42 | 12.65 |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

## Waterman Point (IWP) - Tissue Weight (g-wet) and Shell Weight (g-wet)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Grand mean | 3.12 | 4.49 | | | | | |
| min | 1.24 | 2.71 | | | | | |
| max | 6.11 | 8.53 | | | | | |
| stdev | 1.04 | 1.12 | | | | | |
| count | 69 | 69 | | | | | |
| 95% CI | 0.24 | 0.26 | | | | | |
| mean | 2.98 | 4.20 | 3.01 | 4.66 | 3.38 | 4.61 | |
| min | 1.24 | 2.78 | 1.53 | 2.71 | 1.73 | 2.74 | |
| max | 6.11 | 5.62 | 5.81 | 8.53 | 5.59 | 7.36 | |
| stdev | 1.08 | 0.92 | 1.04 | 1.26 | 0.98 | 1.15 | |
| count | 23 | 23 | 23 | 23 | 23 | 23 | |
| 2SE | 0.45 | 0.38 | 0.44 | 0.53 | 0.41 | 0.48 | |
| | | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** | |
| | **tissue** | **shell** | **tissue** | **shell** | **tissue** | **shell** | |
| 1 | 6.11 | 4.98 | 2.47 | 4.15 | 2.76 | 5.13 | |
| 2 | 3.52 | 5.39 | 3.23 | 5.21 | 3.56 | 4.15 | |
| 3 | 2.28 | 4.11 | 3.96 | 8.53 | 5.07 | 6.67 | |
| 4 | 1.24 | 4.83 | 2.84 | 4.75 | 2.47 | 3.42 | |
| 5 | 2.5 | 2.78 | 1.8 | 2.71 | 3.89 | 4.52 | |
| 6 | 3.9 | 5.29 | 3.18 | 5.38 | 3.62 | 4.71 | |
| 7 | 3.95 | 5.26 | 3.54 | 5.61 | 2.92 | 3.64 | |
| 8 | 3.29 | 5.36 | 2.38 | 4.27 | 5.59 | 7.36 | |
| 9 | 2.97 | 5.62 | 1.53 | 4.17 | 3.09 | 4.62 | |
| 10 | 3.97 | 3.64 | 2.44 | 3.28 | 3.59 | 5.01 | |
| 11 | 2.72 | 3.28 | 1.87 | 3.01 | 3.33 | 6.84 | |
| 12 | 3.04 | 3.84 | 2.9 | 4.56 | 3.15 | 4.85 | |
| 13 | 3.12 | 4.17 | 2.41 | 4.26 | 3.34 | 3.66 | |
| 14 | 2.48 | 3.12 | 3.5 | 5.02 | 4.32 | 4.43 | |
| 15 | 3.04 | 3.65 | 5.06 | 5.54 | 3.38 | 4.5 | |
| 16 | 3.63 | 4.98 | 5.81 | 6.02 | 2.67 | 4.8 | |
| 17 | 4.55 | 5.13 | 4.44 | 6.26 | 1.73 | 3.6 | |
| 18 | 1.9 | 3.42 | 3.07 | 3.82 | 2.45 | 3.11 | |
| 19 | 1.9 | 3.92 | 2.85 | 4.39 | 1.75 | 2.74 | |
| 20 | 1.66 | 4.05 | 2.64 | 4.02 | 4.87 | 4.76 | |
| 21 | 2.07 | 3.96 | 2.27 | 4.11 | 2.47 | 3.5 | |
| 22 | 2.12 | 2.87 | 1.88 | 3.21 | 3.33 | 4.79 | |
| 23 | 2.52 | 2.91 | 3.14 | 4.85 | 4.32 | 5.21 | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |

## INAV - WAWW (g-wet) and Shell Length (mm)

| | | | | | | |
|---|---|---|---|---|---|---|
| Grand mean | 42.02 | 8.27 | | | | |
| min | 22.74 | 1.44 | | | | |
| max | 61.67 | 22.37 | | | | |
| stdev | 10.02 | 4.97 | | | | |
| **count** | 38 | 38 | | | | |
| **95% CI** | 3.19 | 1.58 | | | | |
| mean | 50.40 | 12.22 | 48.80 | 10.65 | 37.59 | 6.42 |
| min | 47.37 | 9.26 | 43.91 | 7.48 | 22.74 | 1.44 |
| max | 53.95 | 14.97 | 55.98 | 16.54 | 61.67 | 22.37 |
| stdev | 2.58 | 2.14 | 4.60 | 3.04 | 9.92 | 5.10 |
| **count** | **7** | **7** | **7** | **7** | **24** | **24** |
| **2 SE** | 1.951 | 1.617 | 3.479 | 2.297 | 4.050 | 2.083 |
| | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** |
| | **length** | **weight** | **length** | **weight** | **length** | **weight** |
| 1 | 52.19 | 14.76 | 55.98 | 16.54 | 53.28 | 15.24 |
| 2 | 48.96 | 10.21 | 44.69 | 8.41 | 49.03 | 11.27 |
| 3 | 47.37 | 11.58 | 45.38 | 8.90 | 61.67 | 22.37 |
| 4 | 52.31 | 12.07 | 49.84 | 11.17 | 43.82 | 9.19 |
| 5 | 47.37 | 9.26 | 48.31 | 10.02 | 43.93 | 8.13 |
| 6 | 53.95 | 14.97 | 43.91 | 7.48 | 52.26 | 14.08 |
| 7 | 50.64 | 12.68 | 53.46 | 12.04 | 29.24 | 2.70 |
| 8 | | | | | 31.61 | 3.44 |
| 9 | | | | | 26.00 | 1.84 |
| 10 | | | | | 22.74 | 1.44 |
| 11 | | | | | 25.35 | 1.63 |
| 12 | | | | | 28.05 | 2.33 |
| 13 | | | | | 29.50 | 2.71 |
| 14 | | | | | 27.49 | 2.04 |
| 15 | | | | | 40.46 | 8.64 |
| 16 | | | | | 37.45 | 4.95 |
| 17 | | | | | 38.80 | 5.85 |
| 18 | | | | | 28.22 | 2.36 |
| 19 | | | | | 37.23 | 4.71 |
| 20 | | | | | 36.46 | 4.77 |
| 21 | | | | | 37.42 | 5.45 |
| 22 | | | | | 37.55 | 5.32 |
| 23 | | | | | 41.95 | 7.50 |
| 24 | | | | | 42.72 | 6.21 |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

## INAV - Tissue Weight (g-wet) and Shell Weight (g-wet)

| | | | | | | |
|---|---|---|---|---|---|---|
| Grand mean | 2.39 | 2.90 | | | | |
| min | 0.44 | 0.48 | | | | |
| max | 6.89 | 7.90 | | | | |
| stdev | 1.58 | 1.77 | | | | |
| count | 38 | 38 | | | | |
| 95% CI | 0.50 | 0.56 | | | | |
| mean | 2.81 | 4.01 | 3.11 | 3.95 | 2.05 | 2.27 |
| min | 1.85 | 2.46 | 2.43 | 2.59 | 0.44 | 0.48 |
| max | 6.11 | 5.44 | 4.28 | 5.83 | 6.89 | 7.90 |
| stdev | 1.50 | 0.98 | 0.73 | 1.32 | 1.72 | 1.80 |
| count | 7 | 7 | 7 | 7 | 24 | 24 |
| 2SE | 1.13 | 0.74 | 0.55 | 1.00 | 0.70 | 0.73 |
| | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** |
| | **tissue** | **shell** | **tissue** | **shell** | **tissue** | **shell** |
| 1 | 2.49 | 5.44 | 3.66 | 5.76 | 6.89 | 4.83 |
| 2 | 2.22 | 3.55 | 2.68 | 3.24 | 3.1 | 4.1 |
| 3 | 2.9 | 4.01 | 2.56 | 2.96 | 5.71 | 7.9 |
| 4 | 1.85 | 3.51 | 3.6 | 3.89 | 2.39 | 3.52 |
| 5 | 1.9 | 2.46 | 2.55 | 3.36 | 3.21 | 2.6 |
| 6 | 6.11 | 4.88 | 2.43 | 2.59 | 4.93 | 5.22 |
| 7 | 2.2 | 4.21 | 4.28 | 5.83 | 0.53 | 0.91 |
| 8 | | | | | 0.68 | 1.33 |
| 9 | | | | | 0.71 | 0.53 |
| 10 | | | | | 0.44 | 0.48 |
| 11 | | | | | 0.55 | 0.57 |
| 12 | | | | | 1.47 | 1.72 |
| 13 | | | | | 0.81 | 0.85 |
| 14 | | | | | 1.22 | 1.5 |
| 15 | | | | | 0.95 | 1.03 |
| 16 | | | | | 1.4 | 1.99 |
| 17 | | | | | 0.59 | 0.79 |
| 18 | | | | | 2.1 | 1.79 |
| 19 | | | | | 1.39 | 3.36 |
| 20 | | | | | 2.88 | 2.54 |
| 21 | | | | | 2.26 | 1.63 |
| 22 | | | | | 2.76 | 2.01 |
| 23 | | | | | 1.56 | 2.51 |
| 24 | | | | | 0.76 | 0.88 |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

## IPOM - WAWW (g-wet) and Shell Length (mm)

| | | | | | | |
|---|---|---|---|---|---|---|
| Grand mean | 39.60 | 7.71 | | | | |
| min | 24.74 | 1.88 | | | | |
| max | 74.85 | 48.96 | | | | |
| stdev | 8.63 | 6.14 | | | | |
| **count** | 90.00 | 90.00 | | | | |
| **95% CI** | 1.78 | 1.27 | | | | |
| mean | 39.65 | 7.56 | 37.91 | 6.53 | 41.25 | 9.03 |
| min | 24.74 | 2.05 | 25.50 | 1.88 | 26.91 | 2.35 |
| max | 61.85 | 26.52 | 56.10 | 21.13 | 74.85 | 48.96 |
| stdev | 8.33 | 4.89 | 8.13 | 4.41 | 9.36 | 8.31 |
| **count** | **30** | **30** | **30** | **30** | **30** | **30** |
| **2 SE** | 3.041 | 1.786 | 2.967 | 1.611 | 3.419 | 3.036 |
| | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** |
| | **length** | **weight** | **length** | **weight** | **length** | **weight** |
| 1 | 61.85 | 26.52 | 51.24 | 14.19 | 74.85 | 48.96 |
| 2 | 47.72 | 11.31 | 40.86 | 9.77 | 51.93 | 11.82 |
| 3 | 47.78 | 12.28 | 46.67 | 10.16 | 36.75 | 6.84 |
| 4 | 44.92 | 10.52 | 34.58 | 4.27 | 41.00 | 7.40 |
| 5 | 43.88 | 9.09 | 40.39 | 3.16 | 39.15 | 6.26 |
| 6 | 46.73 | 11.82 | 28.39 | 2.23 | 36.88 | 5.25 |
| 7 | 43.89 | 8.53 | 56.10 | 21.13 | 40.99 | 8.29 |
| 8 | 54.64 | 14.19 | 47.87 | 7.89 | 33.54 | 3.82 |
| 9 | 37.50 | 7.39 | 41.56 | 7.51 | 48.77 | 11.90 |
| 10 | 45.08 | 8.95 | 48.48 | 12.82 | 42.59 | 8.18 |
| 11 | 42.07 | 7.05 | 29.43 | 3.10 | 39.07 | 6.55 |
| 12 | 40.39 | 5.81 | 32.44 | 3.75 | 39.90 | 7.42 |
| 13 | 38.21 | 6.32 | 36.92 | 5.61 | 35.76 | 4.14 |
| 14 | 34.12 | 6.43 | 44.15 | 7.92 | 45.18 | 12.27 |
| 15 | 37.56 | 7.18 | 41.67 | 8.60 | 43.21 | 7.96 |
| 16 | 41.63 | 6.40 | 33.61 | 3.98 | 33.84 | 5.46 |
| 17 | 34.43 | 4.09 | 26.11 | 1.98 | 38.71 | 6.38 |
| 18 | 38.73 | 6.34 | 30.74 | 2.89 | 33.30 | 4.62 |
| 19 | 31.74 | 3.94 | 31.71 | 3.38 | 31.44 | 2.83 |
| 20 | 30.42 | 3.03 | 27.72 | 2.42 | 30.77 | 2.85 |
| 21 | 29.82 | 2.72 | 47.60 | 11.82 | 29.78 | 2.76 |
| 22 | 29.54 | 2.05 | 42.87 | 10.02 | 26.91 | 2.35 |
| 23 | 37.53 | 6.62 | 38.51 | 6.56 | 45.89 | 12.38 |
| 24 | 44.22 | 7.31 | 36.77 | 5.15 | 46.73 | 12.36 |
| 25 | 48.99 | 12.63 | 45.58 | 8.26 | 53.97 | 14.53 |
| 26 | 27.80 | 2.23 | 35.47 | 5.01 | 48.36 | 12.44 |
| 27 | 34.59 | 4.76 | 31.60 | 3.48 | 45.95 | 10.56 |
| 28 | 38.74 | 6.04 | 34.33 | 4.02 | 42.14 | 9.69 |
| 29 | 30.13 | 3.04 | 28.44 | 2.93 | 47.90 | 10.56 |
| 30 | 24.74 | 2.30 | 25.50 | 1.88 | 32.13 | 4.20 |

## IPOM - Tissue Weight (g-wet) and Shell Weight (g-wet)

| | | | | | | |
|---|---|---|---|---|---|---|
| Grand mean | 2.13 | 3.46 | | | | |
| min | 0.10 | 0.80 | | | | |
| max | 14.09 | 18.65 | | | | |
| stdev | 1.81 | 2.53 | | | | |
| count | 87 | 88 | | | | |
| 95% CI | 0.38 | 0.53 | | | | |
| mean | 1.87 | 3.40 | 2.02 | 3.05 | 2.53 | 3.91 |
| min | 0.10 | 0.93 | 0.55 | 0.80 | 0.58 | 1.11 |
| max | 6.29 | 11.68 | 7.80 | 9.84 | 14.09 | 18.65 |
| stdev | 1.15 | 2.20 | 1.60 | 2.07 | 2.47 | 3.17 |
| count | 30 | 29 | 29 | 29 | 28 | 30 |
| 2SE | 0.42 | 0.82 | 0.59 | 0.77 | 0.93 | 1.16 |
| | | | | | | |
| | **Replicate 1** | **Replicate 1** | **Replicate 2** | **Replicate 2** | **Replicate 3** | **Replicate 3** |
| | **tissue** | **shell** | **tissue** | **shell** | **tissue** | **shell** |
| 1 | 6.29 | 11.68 | 5.67 | 5.5 | 14.09 | 18.65 |
| 2 | 2.95 | 5.15 | 2.09 | 5.44 | 2.2 | 4.91 |
| 3 | 3.32 | 6.21 | 1.74 | 4.73 | 2.57 | 2.68 |
| 4 | 2.1 | 4.4 | 1.13 | 2.04 | 2.66 | 3.11 |
| 5 | 2.31 | 3.69 | | | 1.01 | 2.42 |
| 6 | 1.38 | 5.17 | 0.61 | 1.02 | 2.16 | 4.51 |
| 7 | 2.5 | 3.3 | 7.8 | 9.84 | 2.72 | 3.72 |
| 8 | 3.43 | 6.34 | 1.71 | 4.47 | 1.45 | 1.74 |
| 9 | 1.96 | 3.58 | 2.04 | 3.39 | 2.44 | 4.48 |
| 10 | 1.94 | 3.85 | 2.96 | 6.37 | 2.29 | 3.46 |
| 11 | 1.84 | 4.14 | 1.15 | 1.6 | 1.59 | 2.93 |
| 12 | 1.25 | 2.22 | 0.79 | 1.94 | 0.64 | 3.2 |
| 13 | 1.73 | 2.7 | 1.93 | 3.17 | 3.11 | 1.65 |
| 14 | 1.86 | 3.33 | 2.28 | 3.74 | 2.42 | 6.07 |
| 15 | 0.1 | 2.92 | 2.32 | 3.53 | 1.49 | 2.96 |
| 16 | 2.36 | 1.66 | 1.31 | 1.84 | 1.36 | 2.71 |
| 17 | 1.95 | 3.19 | 0.84 | 0.83 | 1.42 | 2.98 |
| 18 | 0.94 | 2.03 | 1.09 | 1.12 | 0.86 | 2.06 |
| 19 | 1.75 | 1.35 | 1.17 | 1.44 | 0.97 | 1.45 |
| 20 | 1.3 | 1.15 | 0.89 | 1.03 | 0.58 | 1.44 |
| 21 | 1.08 | 0.93 | 4.59 | 4.94 | 2.82 | 1.11 |
| 22 | 0.78 | 3.48 | 3.65 | 4.57 | 4.9 | 5.15 |
| 23 | 0.72 | 2.93 | 1.96 | 2.76 | 2.69 | 4.97 |
| 24 | 1.57 | 4.91 | 1.51 | 2.33 | 3.53 | 6.57 |
| 25 | 2.51 | 0.96 | 1.46 | 3.46 | | 5.83 |
| 26 | 0.66 | 2.12 | 1.59 | 2.24 | | 4.45 |
| 27 | 1.35 | 2.42 | 1.22 | 1.44 | 3.13 | 4.04 |
| 28 | 2.24 | 1.6 | 1.53 | 1.37 | 2.26 | 4.8 |
| 29 | 1.06 | 1.06 | 1.08 | 1.6 | 2.42 | 2.02 |
| 30 | 0.84 | | 0.55 | 0.8 | 1.12 | 1.24 |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3 | 6/22/05 10:00 | 12.56 | 14.31 | 15.04 | 14.98 | 14.86 | no data recorded |
| 4 | 6/22/05 10:15 | 12.71 | 14.31 | 15.2 | 14.98 | 14.7 | |
| 5 | 6/22/05 10:30 | 12.71 | 14.31 | 15.52 | 14.98 | 15.01 | |
| 6 | 6/22/05 10:45 | 12.71 | 14.31 | 15.52 | 15.14 | 14.86 | |
| 7 | 6/22/05 11:00 | 12.71 | 14.46 | 13.63 | 15.93 | 15.17 | |
| 8 | 6/22/05 11:15 | 12.71 | 14.31 | 13.63 | 12.8 | 15.64 | |
| 9 | 6/22/05 11:30 | 12.87 | 14.31 | 13.63 | 12.8 | 15.81 | |
| 10 | 6/22/05 11:45 | 13.02 | 14.31 | 13.63 | 12.8 | 12.68 | |
| 11 | 6/22/05 12:00 | 12.87 | 14.31 | 13.63 | 12.8 | 12.68 | |
| 12 | 6/22/05 12:15 | 12.87 | 14.31 | 13.63 | 12.8 | 12.68 | |
| 13 | 6/22/05 12:30 | 12.71 | 14.31 | 13.63 | 12.96 | 12.68 | |
| 14 | 6/22/05 12:45 | 12.71 | 14.31 | 13.63 | 12.96 | 12.68 | |
| 15 | 6/22/05 13:00 | 12.56 | 14.31 | 13.63 | 12.96 | 12.68 | |
| 16 | 6/22/05 13:15 | 12.56 | 14.31 | 13.63 | 13.11 | 12.68 | |
| 17 | 6/22/05 13:30 | 12.87 | 14.31 | 13.63 | 13.27 | 12.68 | |
| 18 | 6/22/05 13:45 | 13.02 | 14.31 | 13.79 | 13.11 | 12.68 | |
| 19 | 6/22/05 14:00 | 13.02 | 14.31 | 13.63 | 13.11 | 12.68 | |
| 20 | 6/22/05 14:15 | 13.02 | 14.31 | 13.63 | 12.8 | 12.68 | |
| 21 | 6/22/05 14:30 | 12.87 | 14.31 | 13.17 | 12.8 | 12.68 | |
| 22 | 6/22/05 14:45 | 12.87 | 14.31 | 13.17 | 12.8 | 12.68 | |
| 23 | 6/22/05 15:00 | 12.87 | 14.31 | 13.33 | 12.8 | 12.68 | |
| 24 | 6/22/05 15:15 | 12.87 | 14.31 | 13.33 | 12.8 | 12.68 | |
| 25 | 6/22/05 15:30 | 12.87 | 14.31 | 13.17 | 12.8 | 12.68 | |
| 26 | 6/22/05 15:45 | 12.87 | 14.31 | 13.17 | 12.8 | 12.68 | |
| 27 | 6/22/05 16:00 | 12.87 | 14.31 | 13.17 | 12.8 | 12.83 | |
| 28 | 6/22/05 16:15 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 29 | 6/22/05 16:30 | 12.87 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 30 | 6/22/05 16:45 | 12.87 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 31 | 6/22/05 17:00 | 12.71 | 14.15 | 12.86 | 12.8 | 12.83 | |
| 32 | 6/22/05 17:15 | 12.71 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 33 | 6/22/05 17:30 | 12.56 | 14.15 | 13.02 | 13.27 | 12.99 | |
| 34 | 6/22/05 17:45 | 12.56 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 35 | 6/22/05 18:00 | 12.56 | 14.31 | 13.02 | 12.8 | 12.83 | |
| 36 | 6/22/05 18:15 | 12.56 | 14.31 | 13.02 | 12.8 | 12.83 | |
| 37 | 6/22/05 18:30 | 12.56 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 38 | 6/22/05 18:45 | 12.4 | 14.31 | 13.02 | 12.8 | 12.99 | |
| 39 | 6/22/05 19:00 | 12.4 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 40 | 6/22/05 19:15 | 12.4 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 41 | 6/22/05 19:30 | 12.4 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 42 | 6/22/05 19:45 | 12.4 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 43 | 6/22/05 20:00 | 12.24 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 44 | 6/22/05 20:15 | 12.24 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 45 | 6/22/05 20:30 | 12.24 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 46 | 6/22/05 20:45 | 12.24 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 47 | 6/22/05 21:00 | 12.24 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 48 | 6/22/05 21:15 | 12.24 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 49 | 6/22/05 21:30 | 12.56 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 50 | 6/22/05 21:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 51 | 6/22/05 22:00 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 52 | 6/22/05 22:15 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 53 | 6/22/05 22:30 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 54 | 6/22/05 22:45 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 55 | 6/22/05 23:00 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 56 | 6/22/05 23:15 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 57 | 6/22/05 23:30 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 58 | 6/22/05 23:45 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 59 | 6/23/05 0:00 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 60 | 6/23/05 0:15 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 61 | 6/23/05 0:30 | 12.87 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 62 | 6/23/05 0:45 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 63 | 6/23/05 1:00 | 12.87 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 64 | 6/23/05 1:15 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 65 | 6/23/05 1:30 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 66 | 6/23/05 1:45 | 12.87 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 67 | 6/23/05 2:00 | 12.87 | 14.31 | 13.02 | 12.8 | 12.83 | |
| 68 | 6/23/05 2:15 | 12.87 | 14.31 | 13.02 | 12.8 | 12.68 | |
| 69 | 6/23/05 2:30 | 12.87 | 14.31 | 13.02 | 12.8 | 12.68 | |
| 70 | 6/23/05 2:45 | 12.87 | 14.31 | 13.02 | 12.8 | 12.68 | |
| 71 | 6/23/05 3:00 | 12.56 | 14.31 | 13.02 | 12.8 | 12.68 | |
| 72 | 6/23/05 3:15 | 12.24 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 73 | 6/23/05 3:30 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 74 | 6/23/05 3:45 | 12.24 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 75 | 6/23/05 4:00 | 12.24 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 76 | 6/23/05 4:15 | 12.24 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 77 | 6/23/05 4:30 | 12.24 | 14.31 | 12.86 | 12.8 | 12.68 | |
| 78 | 6/23/05 4:45 | 12.56 | 14.31 | 12.71 | 12.8 | 12.68 | |
| 79 | 6/23/05 5:00 | 12.4 | 14.31 | 12.71 | 12.8 | 12.52 | |
| 80 | 6/23/05 5:15 | 12.56 | 14.31 | 12.71 | 12.8 | 12.52 | |
| 81 | 6/23/05 5:30 | 12.56 | 14.31 | 12.71 | 12.8 | 12.52 | |
| 82 | 6/23/05 5:45 | 12.56 | 14.31 | 12.71 | 12.8 | 12.52 | |
| 83 | 6/23/05 6:00 | 12.56 | 14.31 | 12.71 | 12.96 | 12.68 | |
| 84 | 6/23/05 6:15 | 12.56 | 14.31 | 12.71 | 12.96 | 12.52 | |
| 85 | 6/23/05 6:30 | 12.4 | 14.31 | 12.71 | 12.96 | 12.68 | |
| 86 | 6/23/05 6:45 | 12.4 | 14.31 | 12.71 | 12.96 | 12.68 | |
| 87 | 6/23/05 7:00 | 12.56 | 14.31 | 12.71 | 12.96 | 12.68 | |
| 88 | 6/23/05 7:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 89 | 6/23/05 7:30 | 12.56 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 90 | 6/23/05 7:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 91 | 6/23/05 8:00 | 12.56 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 92 | 6/23/05 8:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 93 | 6/23/05 8:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 94 | 6/23/05 8:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 95 | 6/23/05 9:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 96 | 6/23/05 9:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 97 | 6/23/05 9:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 98 | 6/23/05 9:45 | 12.56 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 99 | 6/23/05 10:00 | 12.56 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 100 | 6/23/05 10:15 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 101 | 6/23/05 10:30 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 102 | 6/23/05 10:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 103 | 6/23/05 11:00 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 104 | 6/23/05 11:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 105 | 6/23/05 11:30 | 12.56 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 106 | 6/23/05 11:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 107 | 6/23/05 12:00 | 12.87 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 108 | 6/23/05 12:15 | 13.48 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 109 | 6/23/05 12:30 | 13.48 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 110 | 6/23/05 12:45 | 13.63 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 111 | 6/23/05 13:00 | 13.63 | 14.31 | 13.02 | 13.27 | 12.68 | |
| 112 | 6/23/05 13:15 | 13.17 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 113 | 6/23/05 13:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.68 | |
| 114 | 6/23/05 13:45 | 12.56 | 14.31 | 13.17 | 13.27 | 12.68 | |
| 115 | 6/23/05 14:00 | 12.56 | 14.31 | 13.17 | 13.27 | 12.68 | |
| 116 | 6/23/05 14:15 | 12.56 | 14.31 | 13.33 | 13.11 | 12.68 | |
| 117 | 6/23/05 14:30 | 12.56 | 14.31 | 13.33 | 13.11 | 12.68 | |
| 118 | 6/23/05 14:45 | 12.56 | 14.46 | 13.17 | 13.11 | 12.68 | |
| 119 | 6/23/05 15:00 | 12.4 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 120 | 6/23/05 15:15 | 13.17 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 121 | 6/23/05 15:30 | 13.94 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 122 | 6/23/05 15:45 | 13.48 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 123 | 6/23/05 16:00 | 13.33 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 124 | 6/23/05 16:15 | 13.02 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 125 | 6/23/05 16:30 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 126 | 6/23/05 16:45 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 127 | 6/23/05 17:00 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 128 | 6/23/05 17:15 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 129 | 6/23/05 17:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 130 | 6/23/05 17:45 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 131 | 6/23/05 18:00 | 12.71 | 13.99 | 13.33 | 12.96 | 12.68 | |
| 132 | 6/23/05 18:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 133 | 6/23/05 18:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 134 | 6/23/05 18:45 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 135 | 6/23/05 19:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 136 | 6/23/05 19:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 137 | 6/23/05 19:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 138 | 6/23/05 19:45 | 12.4 | 14.15 | 13.02 | 13.42 | 12.99 | |
| 139 | 6/23/05 20:00 | 12.4 | 14.15 | 13.02 | 13.27 | 12.99 | |
| 140 | 6/23/05 20:15 | 12.24 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 141 | 6/23/05 20:30 | 12.4 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 142 | 6/23/05 20:45 | 12.4 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 143 | 6/23/05 21:00 | 12.4 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 144 | 6/23/05 21:15 | 12.4 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 145 | 6/23/05 21:30 | 12.4 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 146 | 6/23/05 21:45 | 12.4 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 147 | 6/23/05 22:00 | 12.4 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 148 | 6/23/05 22:15 | 12.4 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 149 | 6/23/05 22:30 | 12.56 | 14.15 | 12.86 | 13.27 | 12.99 | |
| 150 | 6/23/05 22:45 | 12.56 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 151 | 6/23/05 23:00 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 152 | 6/23/05 23:15 | 12.56 | 14.15 | 13.02 | 13.27 | 12.99 | |
| 153 | 6/23/05 23:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.99 | |
| 154 | 6/23/05 23:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.99 | |
| 155 | 6/24/05 0:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 156 | 6/24/05 0:15 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 157 | 6/24/05 0:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 158 | 6/24/05 0:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 159 | 6/24/05 1:00 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 160 | 6/24/05 1:15 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 161 | 6/24/05 1:30 | 12.56 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 162 | 6/24/05 1:45 | 12.56 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 163 | 6/24/05 2:00 | 12.71 | 14.15 | 13.17 | 12.96 | 12.83 | |
| 164 | 6/24/05 2:15 | 12.71 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 165 | 6/24/05 2:30 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 166 | 6/24/05 2:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 167 | 6/24/05 3:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 168 | 6/24/05 3:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 169 | 6/24/05 3:30 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 170 | 6/24/05 3:45 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 171 | 6/24/05 4:00 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 172 | 6/24/05 4:15 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 173 | 6/24/05 4:30 | 12.4 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 174 | 6/24/05 4:45 | 12.4 | 14.15 | 13.17 | 13.27 | 12.68 | |
| 175 | 6/24/05 5:00 | 12.4 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 176 | 6/24/05 5:15 | 12.4 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 177 | 6/24/05 5:30 | 12.4 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 178 | 6/24/05 5:45 | 12.4 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 179 | 6/24/05 6:00 | 12.4 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 180 | 6/24/05 6:15 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 181 | 6/24/05 6:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 182 | 6/24/05 6:45 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 183 | 6/24/05 7:00 | 12.4 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 184 | 6/24/05 7:15 | 12.56 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 185 | 6/24/05 7:30 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 186 | 6/24/05 7:45 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 187 | 6/24/05 8:00 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 188 | 6/24/05 8:15 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 189 | 6/24/05 8:30 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 190 | 6/24/05 8:45 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 191 | 6/24/05 9:00 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 192 | 6/24/05 9:15 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 193 | 6/24/05 9:30 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 194 | 6/24/05 9:45 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 195 | 6/24/05 10:00 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 196 | 6/24/05 10:15 | 12.4 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 197 | 6/24/05 10:30 | 12.4 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 198 | 6/24/05 10:45 | 12.4 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 199 | 6/24/05 11:00 | 12.56 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 200 | 6/24/05 11:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 201 | 6/24/05 11:30 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 202 | 6/24/05 11:45 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 203 | 6/24/05 12:00 | 12.56 | 14.46 | 12.86 | 13.11 | 12.68 | |
| 204 | 6/24/05 12:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 205 | 6/24/05 12:30 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 206 | 6/24/05 12:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 207 | 6/24/05 13:00 | 12.71 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 208 | 6/24/05 13:15 | 13.02 | 14.31 | 13.02 | 13.27 | 12.68 | |
| 209 | 6/24/05 13:30 | 13.33 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 210 | 6/24/05 13:45 | 13.33 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 211 | 6/24/05 14:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 212 | 6/24/05 14:15 | 12.56 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 213 | 6/24/05 14:30 | 12.56 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 214 | 6/24/05 14:45 | 12.4 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 215 | 6/24/05 15:00 | 12.56 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 216 | 6/24/05 15:15 | 12.56 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 217 | 6/24/05 15:30 | 12.4 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 218 | 6/24/05 15:45 | 13.48 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 219 | 6/24/05 16:00 | 14.26 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 220 | 6/24/05 16:15 | 14.1 | 13.99 | 13.48 | 13.11 | 12.68 | |
| 221 | 6/24/05 16:30 | 13.94 | 13.99 | 13.33 | 13.11 | 12.68 | |
| 222 | 6/24/05 16:45 | 13.63 | 13.99 | 13.02 | 13.11 | 12.68 | |
| 223 | 6/24/05 17:00 | 13.33 | 13.99 | 13.02 | 13.27 | 12.68 | |
| 224 | 6/24/05 17:15 | 13.17 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 225 | 6/24/05 17:30 | 13.02 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 226 | 6/24/05 17:45 | 13.02 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 227 | 6/24/05 18:00 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 228 | 6/24/05 18:15 | 12.87 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 229 | 6/24/05 18:30 | 12.87 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 230 | 6/24/05 18:45 | 12.87 | 14.31 | 12.86 | 13.27 | 12.68 | |
| 231 | 6/24/05 19:00 | 12.71 | 14.31 | 12.86 | 13.27 | 12.68 | |
| 232 | 6/24/05 19:15 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 233 | 6/24/05 19:30 | 12.71 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 234 | 6/24/05 19:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 235 | 6/24/05 20:00 | 12.56 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 236 | 6/24/05 20:15 | 12.56 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 237 | 6/24/05 20:30 | 12.56 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 238 | 6/24/05 20:45 | 12.4 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 239 | 6/24/05 21:00 | 12.4 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 240 | 6/24/05 21:15 | 12.4 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 241 | 6/24/05 21:30 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 242 | 6/24/05 21:45 | 12.4 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 243 | 6/24/05 22:00 | 12.4 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 244 | 6/24/05 22:15 | 12.56 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 245 | 6/24/05 22:30 | 12.4 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 246 | 6/24/05 22:45 | 12.4 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 247 | 6/24/05 23:00 | 12.56 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 248 | 6/24/05 23:15 | 12.56 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 249 | 6/24/05 23:30 | 12.71 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 250 | 6/24/05 23:45 | 12.71 | 14.15 | 12.86 | 13.42 | 12.83 | |
| 251 | 6/25/05 0:00 | 12.71 | 13.99 | 12.86 | 13.42 | 12.83 | |
| 252 | 6/25/05 0:15 | 12.71 | 14.15 | 13.02 | 13.42 | 12.83 | |
| 253 | 6/25/05 0:30 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 254 | 6/25/05 0:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 255 | 6/25/05 1:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 256 | 6/25/05 1:15 | 12.71 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 257 | 6/25/05 1:30 | 12.56 | 14.15 | 13.02 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 258 | 6/25/05 1:45 | 12.71 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 259 | 6/25/05 2:00 | 12.71 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 260 | 6/25/05 2:15 | 12.71 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 261 | 6/25/05 2:30 | 12.71 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 262 | 6/25/05 2:45 | 12.71 | 14.15 | 13.17 | 13.27 | 12.99 | |
| 263 | 6/25/05 3:00 | 12.71 | 14.15 | 13.17 | 13.27 | 12.83 | |
| 264 | 6/25/05 3:15 | 12.71 | 14.15 | 13.17 | 13.27 | 12.83 | |
| 265 | 6/25/05 3:30 | 12.56 | 14.15 | 13.17 | 13.27 | 12.83 | |
| 266 | 6/25/05 3:45 | 12.56 | 14.15 | 13.17 | 13.27 | 12.83 | |
| 267 | 6/25/05 4:00 | 12.56 | 14.15 | 13.17 | 13.27 | 12.68 | |
| 268 | 6/25/05 4:15 | 12.56 | 14.15 | 13.17 | 13.27 | 12.68 | |
| 269 | 6/25/05 4:30 | 12.56 | 14.15 | 13.17 | 13.27 | 12.68 | |
| 270 | 6/25/05 4:45 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 271 | 6/25/05 5:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 272 | 6/25/05 5:15 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 273 | 6/25/05 5:30 | 12.4 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 274 | 6/25/05 5:45 | 12.4 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 275 | 6/25/05 6:00 | 12.4 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 276 | 6/25/05 6:15 | 12.4 | 14.15 | 13.33 | 12.96 | 12.68 | |
| 277 | 6/25/05 6:30 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 278 | 6/25/05 6:45 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 279 | 6/25/05 7:00 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 280 | 6/25/05 7:15 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 281 | 6/25/05 7:30 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 282 | 6/25/05 7:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 283 | 6/25/05 8:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 284 | 6/25/05 8:15 | 12.56 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 285 | 6/25/05 8:30 | 12.56 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 286 | 6/25/05 8:45 | 12.56 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 287 | 6/25/05 9:00 | 12.56 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 288 | 6/25/05 9:15 | 12.4 | 14.15 | 12.71 | 12.96 | 12.68 | |
| 289 | 6/25/05 9:30 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 290 | 6/25/05 9:45 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 291 | 6/25/05 10:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 292 | 6/25/05 10:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 293 | 6/25/05 10:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 294 | 6/25/05 10:45 | 12.56 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 295 | 6/25/05 11:00 | 12.56 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 296 | 6/25/05 11:15 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 297 | 6/25/05 11:30 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 298 | 6/25/05 11:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 299 | 6/25/05 12:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 300 | 6/25/05 12:15 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 301 | 6/25/05 12:30 | 12.56 | 14.31 | 12.86 | 13.27 | 12.68 | |
| 302 | 6/25/05 12:45 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 303 | 6/25/05 13:00 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 304 | 6/25/05 13:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 305 | 6/25/05 13:30 | 12.56 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 306 | 6/25/05 13:45 | 12.56 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 307 | 6/25/05 14:00 | 13.02 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 308 | 6/25/05 14:15 | 13.33 | 14.31 | 13.17 | 13.11 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 309 | 6/25/05 14:30 | 13.02 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 310 | 6/25/05 14:45 | 12.87 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 311 | 6/25/05 15:00 | 12.71 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 312 | 6/25/05 15:15 | 12.56 | 14.31 | 13.33 | 12.96 | 12.68 | |
| 313 | 6/25/05 15:30 | 12.56 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 314 | 6/25/05 15:45 | 12.56 | 14.31 | 13.33 | 12.96 | 12.68 | |
| 315 | 6/25/05 16:00 | 12.56 | 14.31 | 13.33 | 12.96 | 12.68 | |
| 316 | 6/25/05 16:15 | 12.4 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 317 | 6/25/05 16:30 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 318 | 6/25/05 16:45 | 13.79 | 14.15 | 13.33 | 13.11 | 12.68 | |
| 319 | 6/25/05 17:00 | 14.1 | 14.15 | 13.33 | 13.11 | 12.68 | |
| 320 | 6/25/05 17:15 | 13.79 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 321 | 6/25/05 17:30 | 13.63 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 322 | 6/25/05 17:45 | 13.33 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 323 | 6/25/05 18:00 | 13.17 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 324 | 6/25/05 18:15 | 13.17 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 325 | 6/25/05 18:30 | 13.02 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 326 | 6/25/05 18:45 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 327 | 6/25/05 19:00 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 328 | 6/25/05 19:15 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 329 | 6/25/05 19:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 330 | 6/25/05 19:45 | 12.87 | 14.31 | 12.86 | 13.42 | 12.83 | |
| 331 | 6/25/05 20:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 332 | 6/25/05 20:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 333 | 6/25/05 20:30 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 334 | 6/25/05 20:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 335 | 6/25/05 21:00 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 336 | 6/25/05 21:15 | 12.71 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 337 | 6/25/05 21:30 | 12.71 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 338 | 6/25/05 21:45 | 12.56 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 339 | 6/25/05 22:00 | 12.56 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 340 | 6/25/05 22:15 | 12.56 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 341 | 6/25/05 22:30 | 12.4 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 342 | 6/25/05 22:45 | 12.4 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 343 | 6/25/05 23:00 | 12.4 | 14.31 | 12.86 | 13.27 | 12.68 | |
| 344 | 6/25/05 23:15 | 12.4 | 14.31 | 12.86 | 13.27 | 12.68 | |
| 345 | 6/25/05 23:30 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 346 | 6/25/05 23:45 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 347 | 6/26/05 0:00 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 348 | 6/26/05 0:15 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 349 | 6/26/05 0:30 | 12.4 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 350 | 6/26/05 0:45 | 12.56 | 14.15 | 12.86 | 13.27 | 12.68 | |
| 351 | 6/26/05 1:00 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 352 | 6/26/05 1:15 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 353 | 6/26/05 1:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 354 | 6/26/05 1:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 355 | 6/26/05 2:00 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 356 | 6/26/05 2:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 357 | 6/26/05 2:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 358 | 6/26/05 2:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 359 | 6/26/05 3:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 360 | 6/26/05 3:15 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 361 | 6/26/05 3:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 362 | 6/26/05 3:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 363 | 6/26/05 4:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 364 | 6/26/05 4:15 | 12.71 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 365 | 6/26/05 4:30 | 12.71 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 366 | 6/26/05 4:45 | 12.71 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 367 | 6/26/05 5:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 368 | 6/26/05 5:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 369 | 6/26/05 5:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 370 | 6/26/05 5:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 371 | 6/26/05 6:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 372 | 6/26/05 6:15 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 373 | 6/26/05 6:30 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 374 | 6/26/05 6:45 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 375 | 6/26/05 7:00 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 376 | 6/26/05 7:15 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 377 | 6/26/05 7:30 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 378 | 6/26/05 7:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 379 | 6/26/05 8:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 380 | 6/26/05 8:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 381 | 6/26/05 8:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 382 | 6/26/05 8:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 383 | 6/26/05 9:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 384 | 6/26/05 9:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 385 | 6/26/05 9:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 386 | 6/26/05 9:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 387 | 6/26/05 10:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 388 | 6/26/05 10:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 389 | 6/26/05 10:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 390 | 6/26/05 10:45 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 391 | 6/26/05 11:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 392 | 6/26/05 11:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 393 | 6/26/05 11:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 394 | 6/26/05 11:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 395 | 6/26/05 12:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 396 | 6/26/05 12:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 397 | 6/26/05 12:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 398 | 6/26/05 12:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 399 | 6/26/05 13:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.83 | |
| 400 | 6/26/05 13:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 401 | 6/26/05 13:30 | 12.56 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 402 | 6/26/05 13:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 403 | 6/26/05 14:00 | 12.56 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 404 | 6/26/05 14:15 | 12.56 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 405 | 6/26/05 14:30 | 12.56 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 406 | 6/26/05 14:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 407 | 6/26/05 15:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 408 | 6/26/05 15:15 | 12.87 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 409 | 6/26/05 15:30 | 12.71 | 14.15 | 13.33 | 12.96 | 12.68 | |
| 410 | 6/26/05 15:45 | 12.71 | 14.15 | 13.48 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 411 | 6/26/05 16:00 | 12.71 | 13.99 | 13.33 | 12.96 | 12.68 | |
| 412 | 6/26/05 16:15 | 12.71 | 14.15 | 13.33 | 12.96 | 12.68 | |
| 413 | 6/26/05 16:30 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 414 | 6/26/05 16:45 | 12.56 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 415 | 6/26/05 17:00 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 416 | 6/26/05 17:15 | 12.87 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 417 | 6/26/05 17:30 | 13.17 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 418 | 6/26/05 17:45 | 13.33 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 419 | 6/26/05 18:00 | 13.17 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 420 | 6/26/05 18:15 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 421 | 6/26/05 18:30 | 13.02 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 422 | 6/26/05 18:45 | 13.17 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 423 | 6/26/05 19:00 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 424 | 6/26/05 19:15 | 13.02 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 425 | 6/26/05 19:30 | 13.02 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 426 | 6/26/05 19:45 | 13.02 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 427 | 6/26/05 20:00 | 12.71 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 428 | 6/26/05 20:15 | 12.71 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 429 | 6/26/05 20:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 430 | 6/26/05 20:45 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 431 | 6/26/05 21:00 | 12.56 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 432 | 6/26/05 21:15 | 12.56 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 433 | 6/26/05 21:30 | 12.4 | 13.99 | 12.86 | 12.8 | 12.83 | |
| 434 | 6/26/05 21:45 | 12.4 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 435 | 6/26/05 22:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.99 | |
| 436 | 6/26/05 22:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 437 | 6/26/05 22:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 438 | 6/26/05 22:45 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 439 | 6/26/05 23:00 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 440 | 6/26/05 23:15 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 441 | 6/26/05 23:30 | 12.56 | 14.15 | 12.86 | 13.11 | 12.68 | |
| 442 | 6/26/05 23:45 | 12.56 | 13.99 | 12.86 | 13.27 | 12.68 | |
| 443 | 6/27/05 0:00 | 12.71 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 444 | 6/27/05 0:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 445 | 6/27/05 0:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 446 | 6/27/05 0:45 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 447 | 6/27/05 1:00 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 448 | 6/27/05 1:15 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 449 | 6/27/05 1:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 450 | 6/27/05 1:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 451 | 6/27/05 2:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 452 | 6/27/05 2:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 453 | 6/27/05 2:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 454 | 6/27/05 2:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 455 | 6/27/05 3:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 456 | 6/27/05 3:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 457 | 6/27/05 3:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 458 | 6/27/05 3:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 459 | 6/27/05 4:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 460 | 6/27/05 4:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 461 | 6/27/05 4:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 462 | 6/27/05 4:45 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 463 | 6/27/05 5:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 464 | 6/27/05 5:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 465 | 6/27/05 5:30 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 466 | 6/27/05 5:45 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 467 | 6/27/05 6:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 468 | 6/27/05 6:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 469 | 6/27/05 6:30 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 470 | 6/27/05 6:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 471 | 6/27/05 7:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 472 | 6/27/05 7:15 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 473 | 6/27/05 7:30 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 474 | 6/27/05 7:45 | 12.56 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 475 | 6/27/05 8:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 476 | 6/27/05 8:15 | 12.56 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 477 | 6/27/05 8:30 | 12.56 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 478 | 6/27/05 8:45 | 12.71 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 479 | 6/27/05 9:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 480 | 6/27/05 9:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 481 | 6/27/05 9:30 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 482 | 6/27/05 9:45 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 483 | 6/27/05 10:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 484 | 6/27/05 10:15 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 485 | 6/27/05 10:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 486 | 6/27/05 10:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 487 | 6/27/05 11:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 488 | 6/27/05 11:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 489 | 6/27/05 11:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 490 | 6/27/05 11:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 491 | 6/27/05 12:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 492 | 6/27/05 12:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 493 | 6/27/05 12:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 494 | 6/27/05 12:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 495 | 6/27/05 13:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 496 | 6/27/05 13:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 497 | 6/27/05 13:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 498 | 6/27/05 13:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 499 | 6/27/05 14:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 500 | 6/27/05 14:15 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 501 | 6/27/05 14:30 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 502 | 6/27/05 14:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 503 | 6/27/05 15:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 504 | 6/27/05 15:15 | 12.87 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 505 | 6/27/05 15:30 | 12.87 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 506 | 6/27/05 15:45 | 13.02 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 507 | 6/27/05 16:00 | 13.17 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 508 | 6/27/05 16:15 | 13.02 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 509 | 6/27/05 16:30 | 13.17 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 510 | 6/27/05 16:45 | 13.17 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 511 | 6/27/05 17:00 | 12.87 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 512 | 6/27/05 17:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 513 | 6/27/05 17:30 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 514 | 6/27/05 17:45 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 515 | 6/27/05 18:00 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 516 | 6/27/05 18:15 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 517 | 6/27/05 18:30 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 518 | 6/27/05 18:45 | 12.56 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 519 | 6/27/05 19:00 | 12.4 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 520 | 6/27/05 19:15 | 12.4 | 13.99 | 13.02 | 13.11 | 12.68 | |
| 521 | 6/27/05 19:30 | 12.4 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 522 | 6/27/05 19:45 | 12.4 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 523 | 6/27/05 20:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.83 | |
| 524 | 6/27/05 20:15 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 525 | 6/27/05 20:30 | 13.17 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 526 | 6/27/05 20:45 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 527 | 6/27/05 21:00 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 528 | 6/27/05 21:15 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 529 | 6/27/05 21:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 530 | 6/27/05 21:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 531 | 6/27/05 22:00 | 12.56 | 13.84 | 13.02 | 12.96 | 12.68 | |
| 532 | 6/27/05 22:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 533 | 6/27/05 22:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 534 | 6/27/05 22:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 535 | 6/27/05 23:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 536 | 6/27/05 23:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 537 | 6/27/05 23:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.99 | |
| 538 | 6/27/05 23:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.99 | |
| 539 | 6/28/05 0:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 540 | 6/28/05 0:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.83 | |
| 541 | 6/28/05 0:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 542 | 6/28/05 0:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 543 | 6/28/05 1:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 544 | 6/28/05 1:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 545 | 6/28/05 1:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 546 | 6/28/05 1:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 547 | 6/28/05 2:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 548 | 6/28/05 2:15 | 12.4 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 549 | 6/28/05 2:30 | 12.4 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 550 | 6/28/05 2:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 551 | 6/28/05 3:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 552 | 6/28/05 3:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 553 | 6/28/05 3:30 | 12.56 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 554 | 6/28/05 3:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 555 | 6/28/05 4:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 556 | 6/28/05 4:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 557 | 6/28/05 4:30 | 12.71 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 558 | 6/28/05 4:45 | 12.87 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 559 | 6/28/05 5:00 | 12.87 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 560 | 6/28/05 5:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.83 | |
| 561 | 6/28/05 5:30 | 12.71 | 14.15 | 13.33 | 13.27 | 12.68 | |
| 562 | 6/28/05 5:45 | 12.87 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 563 | 6/28/05 6:00 | 12.87 | 14.15 | 13.17 | 13.11 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 564 | 6/28/05 6:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 565 | 6/28/05 6:30 | 12.71 | 14.15 | 13.17 | 13.27 | 12.68 | |
| 566 | 6/28/05 6:45 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 567 | 6/28/05 7:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 568 | 6/28/05 7:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 569 | 6/28/05 7:30 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 570 | 6/28/05 7:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 571 | 6/28/05 8:00 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 572 | 6/28/05 8:15 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 573 | 6/28/05 8:30 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 574 | 6/28/05 8:45 | 12.56 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 575 | 6/28/05 9:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 576 | 6/28/05 9:15 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 577 | 6/28/05 9:30 | 13.02 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 578 | 6/28/05 9:45 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 579 | 6/28/05 10:00 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 580 | 6/28/05 10:15 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 581 | 6/28/05 10:30 | 12.71 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 582 | 6/28/05 10:45 | 12.71 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 583 | 6/28/05 11:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 584 | 6/28/05 11:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 585 | 6/28/05 11:30 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 586 | 6/28/05 11:45 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 587 | 6/28/05 12:00 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 588 | 6/28/05 12:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 589 | 6/28/05 12:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 590 | 6/28/05 12:45 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 591 | 6/28/05 13:00 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 592 | 6/28/05 13:15 | 12.4 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 593 | 6/28/05 13:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 594 | 6/28/05 13:45 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 595 | 6/28/05 14:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 596 | 6/28/05 14:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 597 | 6/28/05 14:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 598 | 6/28/05 14:45 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 599 | 6/28/05 15:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 600 | 6/28/05 15:15 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 601 | 6/28/05 15:30 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 602 | 6/28/05 15:45 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 603 | 6/28/05 16:00 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 604 | 6/28/05 16:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 605 | 6/28/05 16:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 606 | 6/28/05 16:45 | 12.71 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 607 | 6/28/05 17:00 | 12.71 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 608 | 6/28/05 17:15 | 12.87 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 609 | 6/28/05 17:30 | 12.87 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 610 | 6/28/05 17:45 | 12.87 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 611 | 6/28/05 18:00 | 12.87 | 13.99 | 13.02 | 12.8 | 12.68 | |
| 612 | 6/28/05 18:15 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 613 | 6/28/05 18:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 614 | 6/28/05 18:45 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 615 | 6/28/05 19:00 | 12.56 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 616 | 6/28/05 19:15 | 12.71 | 13.99 | 13.17 | 12.96 | 12.68 | |
| 617 | 6/28/05 19:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 618 | 6/28/05 19:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 619 | 6/28/05 20:00 | 12.71 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 620 | 6/28/05 20:15 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 621 | 6/28/05 20:30 | 12.56 | 13.84 | 12.71 | 12.96 | 12.68 | |
| 622 | 6/28/05 20:45 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 623 | 6/28/05 21:00 | 12.56 | 13.84 | 12.71 | 12.96 | 12.68 | |
| 624 | 6/28/05 21:15 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 625 | 6/28/05 21:30 | 12.56 | 13.84 | 12.86 | 12.8 | 12.68 | |
| 626 | 6/28/05 21:45 | 12.56 | 13.84 | 12.86 | 12.96 | 12.68 | |
| 627 | 6/28/05 22:00 | 12.56 | 13.99 | 12.86 | 13.11 | 12.68 | |
| 628 | 6/28/05 22:15 | 12.56 | 13.84 | 12.86 | 13.11 | 12.68 | |
| 629 | 6/28/05 22:30 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 630 | 6/28/05 22:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 631 | 6/28/05 23:00 | 12.71 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 632 | 6/28/05 23:15 | 12.71 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 633 | 6/28/05 23:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 634 | 6/28/05 23:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 635 | 6/29/05 0:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 636 | 6/29/05 0:15 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 637 | 6/29/05 0:30 | 12.56 | 13.99 | 12.71 | 12.8 | 12.68 | |
| 638 | 6/29/05 0:45 | 12.56 | 13.99 | 12.71 | 12.8 | 12.68 | |
| 639 | 6/29/05 1:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 640 | 6/29/05 1:15 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 641 | 6/29/05 1:30 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 642 | 6/29/05 1:45 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 643 | 6/29/05 2:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 644 | 6/29/05 2:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 645 | 6/29/05 2:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 646 | 6/29/05 2:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 647 | 6/29/05 3:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 648 | 6/29/05 3:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 649 | 6/29/05 3:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 650 | 6/29/05 3:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 651 | 6/29/05 4:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 652 | 6/29/05 4:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 653 | 6/29/05 4:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 654 | 6/29/05 4:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 655 | 6/29/05 5:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 656 | 6/29/05 5:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 657 | 6/29/05 5:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 658 | 6/29/05 5:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 659 | 6/29/05 6:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 660 | 6/29/05 6:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 661 | 6/29/05 6:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 662 | 6/29/05 6:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 663 | 6/29/05 7:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 664 | 6/29/05 7:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 665 | 6/29/05 7:30 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 666 | 6/29/05 7:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 667 | 6/29/05 8:00 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 668 | 6/29/05 8:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 669 | 6/29/05 8:30 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 670 | 6/29/05 8:45 | 12.56 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 671 | 6/29/05 9:00 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 672 | 6/29/05 9:15 | 12.56 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 673 | 6/29/05 9:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 674 | 6/29/05 9:45 | 12.71 | 14.15 | 12.86 | 12.8 | 12.68 | |
| 675 | 6/29/05 10:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.52 | |
| 676 | 6/29/05 10:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 677 | 6/29/05 10:30 | 12.87 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 678 | 6/29/05 10:45 | 12.87 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 679 | 6/29/05 11:00 | 12.87 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 680 | 6/29/05 11:15 | 12.87 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 681 | 6/29/05 11:30 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 682 | 6/29/05 11:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 683 | 6/29/05 12:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 684 | 6/29/05 12:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 685 | 6/29/05 12:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 686 | 6/29/05 12:45 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 687 | 6/29/05 13:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 688 | 6/29/05 13:15 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 689 | 6/29/05 13:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 690 | 6/29/05 13:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 691 | 6/29/05 14:00 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 692 | 6/29/05 14:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 693 | 6/29/05 14:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 694 | 6/29/05 14:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 695 | 6/29/05 15:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 696 | 6/29/05 15:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 697 | 6/29/05 15:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 698 | 6/29/05 15:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 699 | 6/29/05 16:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 700 | 6/29/05 16:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 701 | 6/29/05 16:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 702 | 6/29/05 16:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 703 | 6/29/05 17:00 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 704 | 6/29/05 17:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 705 | 6/29/05 17:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 706 | 6/29/05 17:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 707 | 6/29/05 18:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 708 | 6/29/05 18:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 709 | 6/29/05 18:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 710 | 6/29/05 18:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 711 | 6/29/05 19:00 | 12.87 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 712 | 6/29/05 19:15 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 713 | 6/29/05 19:30 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 714 | 6/29/05 19:45 | 12.87 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 715 | 6/29/05 20:00 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 716 | 6/29/05 20:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 717 | 6/29/05 20:30 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 718 | 6/29/05 20:45 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 719 | 6/29/05 21:00 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 720 | 6/29/05 21:15 | 12.71 | 13.99 | 13.02 | 12.96 | 12.68 | |
| 721 | 6/29/05 21:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 722 | 6/29/05 21:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 723 | 6/29/05 22:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 724 | 6/29/05 22:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 725 | 6/29/05 22:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 726 | 6/29/05 22:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 727 | 6/29/05 23:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 728 | 6/29/05 23:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 729 | 6/29/05 23:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 730 | 6/29/05 23:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 731 | 6/30/05 0:00 | 12.71 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 732 | 6/30/05 0:15 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 733 | 6/30/05 0:30 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 734 | 6/30/05 0:45 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 735 | 6/30/05 1:00 | 12.56 | 13.99 | 12.86 | 12.8 | 12.68 | |
| 736 | 6/30/05 1:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 737 | 6/30/05 1:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 738 | 6/30/05 1:45 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 739 | 6/30/05 2:00 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 740 | 6/30/05 2:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 741 | 6/30/05 2:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 742 | 6/30/05 2:45 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 743 | 6/30/05 3:00 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 744 | 6/30/05 3:15 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 745 | 6/30/05 3:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 746 | 6/30/05 3:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 747 | 6/30/05 4:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 748 | 6/30/05 4:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 749 | 6/30/05 4:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 750 | 6/30/05 4:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 751 | 6/30/05 5:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 752 | 6/30/05 5:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 753 | 6/30/05 5:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 754 | 6/30/05 5:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 755 | 6/30/05 6:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 756 | 6/30/05 6:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 757 | 6/30/05 6:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 758 | 6/30/05 6:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 759 | 6/30/05 7:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 760 | 6/30/05 7:15 | 12.87 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 761 | 6/30/05 7:30 | 12.87 | 14.15 | 13.02 | 13.27 | 12.68 | |
| 762 | 6/30/05 7:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 763 | 6/30/05 8:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 764 | 6/30/05 8:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 765 | 6/30/05 8:30 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 766 | 6/30/05 8:45 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 767 | 6/30/05 9:00 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 768 | 6/30/05 9:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 769 | 6/30/05 9:30 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 770 | 6/30/05 9:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.52 | |
| 771 | 6/30/05 10:00 | 12.71 | 14.15 | 13.17 | 12.96 | 12.52 | |
| 772 | 6/30/05 10:15 | 12.71 | 14.15 | 13.17 | 12.96 | 12.52 | |
| 773 | 6/30/05 10:30 | 12.71 | 14.15 | 13.17 | 12.96 | 12.52 | |
| 774 | 6/30/05 10:45 | 12.71 | 14.15 | 13.17 | 12.96 | 12.52 | |
| 775 | 6/30/05 11:00 | 12.71 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 776 | 6/30/05 11:15 | 12.71 | 13.99 | 13.02 | 12.96 | 12.52 | |
| 777 | 6/30/05 11:30 | 13.48 | 13.99 | 12.86 | 12.96 | 12.52 | |
| 778 | 6/30/05 11:45 | 13.33 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 779 | 6/30/05 12:00 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 780 | 6/30/05 12:15 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 781 | 6/30/05 12:30 | 12.87 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 782 | 6/30/05 12:45 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 783 | 6/30/05 13:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 784 | 6/30/05 13:15 | 12.56 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 785 | 6/30/05 13:30 | 12.56 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 786 | 6/30/05 13:45 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 787 | 6/30/05 14:00 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 788 | 6/30/05 14:15 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 789 | 6/30/05 14:30 | 12.71 | 13.99 | 12.71 | 12.96 | 12.68 | |
| 790 | 6/30/05 14:45 | 12.71 | 13.99 | 12.71 | 12.8 | 12.68 | |
| 791 | 6/30/05 15:00 | 12.71 | 13.99 | 12.71 | 12.8 | 12.68 | |
| 792 | 6/30/05 15:15 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 793 | 6/30/05 15:30 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 794 | 6/30/05 15:45 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 795 | 6/30/05 16:00 | 12.71 | 13.99 | 12.86 | 12.96 | 12.68 | |
| 796 | 6/30/05 16:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 797 | 6/30/05 16:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 798 | 6/30/05 16:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 799 | 6/30/05 17:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 800 | 6/30/05 17:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 801 | 6/30/05 17:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 802 | 6/30/05 17:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.83 | |
| 803 | 6/30/05 18:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.83 | |
| 804 | 6/30/05 18:15 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 805 | 6/30/05 18:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.83 | |
| 806 | 6/30/05 18:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.83 | |
| 807 | 6/30/05 19:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 808 | 6/30/05 19:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 809 | 6/30/05 19:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 810 | 6/30/05 19:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 811 | 6/30/05 20:00 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 812 | 6/30/05 20:15 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 813 | 6/30/05 20:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 814 | 6/30/05 20:45 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 815 | 6/30/05 21:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 816 | 6/30/05 21:15 | 12.87 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 817 | 6/30/05 21:30 | 12.71 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 818 | 6/30/05 21:45 | 12.87 | 14.15 | 13.02 | 12.96 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 819 | 6/30/05 22:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 820 | 6/30/05 22:15 | 12.87 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 821 | 6/30/05 22:30 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 822 | 6/30/05 22:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 823 | 6/30/05 23:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 824 | 6/30/05 23:15 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 825 | 6/30/05 23:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 826 | 6/30/05 23:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.68 | |
| 827 | 7/1/05 0:00 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 828 | 7/1/05 0:15 | 12.71 | 14.31 | 12.86 | 13.11 | 12.68 | |
| 829 | 7/1/05 0:30 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 830 | 7/1/05 0:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 831 | 7/1/05 1:00 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 832 | 7/1/05 1:15 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 833 | 7/1/05 1:30 | 12.71 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 834 | 7/1/05 1:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 835 | 7/1/05 2:00 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 836 | 7/1/05 2:15 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 837 | 7/1/05 2:30 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 838 | 7/1/05 2:45 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 839 | 7/1/05 3:00 | 12.56 | 14.31 | 12.86 | 12.96 | 12.68 | |
| 840 | 7/1/05 3:15 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 841 | 7/1/05 3:30 | 12.56 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 842 | 7/1/05 3:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.68 | |
| 843 | 7/1/05 4:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 844 | 7/1/05 4:15 | 12.56 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 845 | 7/1/05 4:30 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 846 | 7/1/05 4:45 | 12.71 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 847 | 7/1/05 5:00 | 12.56 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 848 | 7/1/05 5:15 | 12.71 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 849 | 7/1/05 5:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 850 | 7/1/05 5:45 | 12.71 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 851 | 7/1/05 6:00 | 12.71 | 14.46 | 13.17 | 13.11 | 12.68 | |
| 852 | 7/1/05 6:15 | 12.71 | 14.46 | 13.02 | 12.96 | 12.68 | |
| 853 | 7/1/05 6:30 | 12.71 | 14.46 | 13.17 | 12.96 | 12.68 | |
| 854 | 7/1/05 6:45 | 12.71 | 14.46 | 13.33 | 12.96 | 12.68 | |
| 855 | 7/1/05 7:00 | 12.71 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 856 | 7/1/05 7:15 | 12.71 | 14.31 | 13.17 | 12.96 | 12.68 | |
| 857 | 7/1/05 7:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.68 | |
| 858 | 7/1/05 7:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 859 | 7/1/05 8:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.68 | |
| 860 | 7/1/05 8:15 | 12.87 | 14.31 | 13.17 | 13.27 | 12.68 | |
| 861 | 7/1/05 8:30 | 12.87 | 14.31 | 13.17 | 13.27 | 12.68 | |
| 862 | 7/1/05 8:45 | 12.87 | 14.31 | 13.17 | 13.27 | 12.68 | |
| 863 | 7/1/05 9:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 864 | 7/1/05 9:15 | 12.71 | 14.15 | 13.33 | 13.11 | 12.68 | |
| 865 | 7/1/05 9:30 | 12.87 | 14.31 | 13.48 | 12.96 | 12.68 | |
| 866 | 7/1/05 9:45 | 12.87 | 14.31 | 13.48 | 13.11 | 12.68 | |
| 867 | 7/1/05 10:00 | 12.87 | 14.31 | 13.33 | 13.11 | 12.68 | |
| 868 | 7/1/05 10:15 | 12.87 | 14.46 | 13.33 | 13.11 | 12.68 | |
| 869 | 7/1/05 10:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.68 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 870 | 7/1/05 10:45 | 12.71 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 871 | 7/1/05 11:00 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 872 | 7/1/05 11:15 | 12.71 | 14.15 | 13.17 | 13.11 | 12.68 | |
| 873 | 7/1/05 11:30 | 13.33 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 874 | 7/1/05 11:45 | 13.94 | 14.15 | 13.17 | 12.96 | 12.68 | |
| 875 | 7/1/05 12:00 | 13.63 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 876 | 7/1/05 12:15 | 13.63 | 14.46 | 13.02 | 12.96 | 12.68 | |
| 877 | 7/1/05 12:30 | 13.48 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 878 | 7/1/05 12:45 | 13.48 | 14.15 | 13.02 | 13.11 | 12.68 | |
| 879 | 7/1/05 13:00 | 13.17 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 880 | 7/1/05 13:15 | 13.02 | 14.15 | 13.02 | 12.96 | 12.68 | |
| 881 | 7/1/05 13:30 | 12.87 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 882 | 7/1/05 13:45 | 12.71 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 883 | 7/1/05 14:00 | 12.71 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 884 | 7/1/05 14:15 | 12.87 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 885 | 7/1/05 14:30 | 12.71 | 14.15 | 13.02 | 12.96 | 12.83 | |
| 886 | 7/1/05 14:45 | 12.71 | 14.15 | 12.86 | 12.96 | 12.99 | |
| 887 | 7/1/05 15:00 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 888 | 7/1/05 15:15 | 12.71 | 14.15 | 13.02 | 13.27 | 12.83 | |
| 889 | 7/1/05 15:30 | 12.71 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 890 | 7/1/05 15:45 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 891 | 7/1/05 16:00 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 892 | 7/1/05 16:15 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 893 | 7/1/05 16:30 | 12.87 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 894 | 7/1/05 16:45 | 12.87 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 895 | 7/1/05 17:00 | 12.87 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 896 | 7/1/05 17:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 897 | 7/1/05 17:30 | 12.87 | 14.15 | 13.02 | 13.11 | 12.83 | |
| 898 | 7/1/05 17:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 899 | 7/1/05 18:00 | 12.87 | 14.15 | 12.86 | 13.27 | 12.83 | |
| 900 | 7/1/05 18:15 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 901 | 7/1/05 18:30 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 902 | 7/1/05 18:45 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 903 | 7/1/05 19:00 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 904 | 7/1/05 19:15 | 12.87 | 14.15 | 12.86 | 13.11 | 12.83 | |
| 905 | 7/1/05 19:30 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 906 | 7/1/05 19:45 | 12.87 | 14.31 | 12.86 | 13.27 | 12.99 | |
| 907 | 7/1/05 20:00 | 13.02 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 908 | 7/1/05 20:15 | 13.02 | 14.31 | 12.86 | 13.27 | 12.83 | |
| 909 | 7/1/05 20:30 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 910 | 7/1/05 20:45 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 911 | 7/1/05 21:00 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 912 | 7/1/05 21:15 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 913 | 7/1/05 21:30 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 914 | 7/1/05 21:45 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 915 | 7/1/05 22:00 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 916 | 7/1/05 22:15 | 13.02 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 917 | 7/1/05 22:30 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 918 | 7/1/05 22:45 | 12.87 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 919 | 7/1/05 23:00 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 920 | 7/1/05 23:15 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 921 | 7/1/05 23:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 922 | 7/1/05 23:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 923 | 7/2/05 0:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 924 | 7/2/05 0:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 925 | 7/2/05 0:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 926 | 7/2/05 0:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 927 | 7/2/05 1:00 | 12.87 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 928 | 7/2/05 1:15 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 929 | 7/2/05 1:30 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 930 | 7/2/05 1:45 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 931 | 7/2/05 2:00 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 932 | 7/2/05 2:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 933 | 7/2/05 2:30 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 934 | 7/2/05 2:45 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 935 | 7/2/05 3:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 936 | 7/2/05 3:15 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 937 | 7/2/05 3:30 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 938 | 7/2/05 3:45 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 939 | 7/2/05 4:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 940 | 7/2/05 4:15 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 941 | 7/2/05 4:30 | 12.71 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 942 | 7/2/05 4:45 | 12.71 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 943 | 7/2/05 5:00 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 944 | 7/2/05 5:15 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 945 | 7/2/05 5:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 946 | 7/2/05 5:45 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 947 | 7/2/05 6:00 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 948 | 7/2/05 6:15 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 949 | 7/2/05 6:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 950 | 7/2/05 6:45 | 12.56 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 951 | 7/2/05 7:00 | 12.56 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 952 | 7/2/05 7:15 | 12.56 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 953 | 7/2/05 7:30 | 12.56 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 954 | 7/2/05 7:45 | 12.56 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 955 | 7/2/05 8:00 | 12.56 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 956 | 7/2/05 8:15 | 12.71 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 957 | 7/2/05 8:30 | 12.71 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 958 | 7/2/05 8:45 | 12.71 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 959 | 7/2/05 9:00 | 12.87 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 960 | 7/2/05 9:15 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 961 | 7/2/05 9:30 | 13.02 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 962 | 7/2/05 9:45 | 12.87 | 14.31 | 13.33 | 13.11 | 12.99 | |
| 963 | 7/2/05 10:00 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 964 | 7/2/05 10:15 | 13.02 | 14.31 | 13.33 | 13.27 | 12.99 | |
| 965 | 7/2/05 10:30 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 966 | 7/2/05 10:45 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 967 | 7/2/05 11:00 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 968 | 7/2/05 11:15 | 12.71 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 969 | 7/2/05 11:30 | 12.71 | 14.31 | 13.48 | 13.27 | 12.83 | |
| 970 | 7/2/05 11:45 | 12.71 | 14.31 | 13.48 | 13.11 | 12.83 | |
| 971 | 7/2/05 12:00 | 12.71 | 14.31 | 13.48 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 972 | 7/2/05 12:15 | 13.33 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 973 | 7/2/05 12:30 | 13.63 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 974 | 7/2/05 12:45 | 13.48 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 975 | 7/2/05 13:00 | 13.33 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 976 | 7/2/05 13:15 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 977 | 7/2/05 13:30 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 978 | 7/2/05 13:45 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 979 | 7/2/05 14:00 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 980 | 7/2/05 14:15 | 13.17 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 981 | 7/2/05 14:30 | 13.17 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 982 | 7/2/05 14:45 | 13.02 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 983 | 7/2/05 15:00 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 984 | 7/2/05 15:15 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 985 | 7/2/05 15:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 986 | 7/2/05 15:45 | 12.87 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 987 | 7/2/05 16:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 988 | 7/2/05 16:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 989 | 7/2/05 16:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 990 | 7/2/05 16:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 991 | 7/2/05 17:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 992 | 7/2/05 17:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 993 | 7/2/05 17:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 994 | 7/2/05 17:45 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 995 | 7/2/05 18:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 996 | 7/2/05 18:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 997 | 7/2/05 18:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 998 | 7/2/05 18:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 999 | 7/2/05 19:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1000 | 7/2/05 19:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1001 | 7/2/05 19:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1002 | 7/2/05 19:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1003 | 7/2/05 20:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1004 | 7/2/05 20:15 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1005 | 7/2/05 20:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1006 | 7/2/05 20:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1007 | 7/2/05 21:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1008 | 7/2/05 21:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1009 | 7/2/05 21:30 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1010 | 7/2/05 21:45 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1011 | 7/2/05 22:00 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1012 | 7/2/05 22:15 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1013 | 7/2/05 22:30 | 12.71 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1014 | 7/2/05 22:45 | 12.71 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1015 | 7/2/05 23:00 | 12.71 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1016 | 7/2/05 23:15 | 12.71 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1017 | 7/2/05 23:30 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1018 | 7/2/05 23:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1019 | 7/3/05 0:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1020 | 7/3/05 0:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1021 | 7/3/05 0:30 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1022 | 7/3/05 0:45 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1023 | 7/3/05 1:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1024 | 7/3/05 1:15 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1025 | 7/3/05 1:30 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1026 | 7/3/05 1:45 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1027 | 7/3/05 2:00 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1028 | 7/3/05 2:15 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1029 | 7/3/05 2:30 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1030 | 7/3/05 2:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1031 | 7/3/05 3:00 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1032 | 7/3/05 3:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1033 | 7/3/05 3:30 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1034 | 7/3/05 3:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 1035 | 7/3/05 4:00 | 12.71 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 1036 | 7/3/05 4:15 | 12.56 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 1037 | 7/3/05 4:30 | 12.56 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1038 | 7/3/05 4:45 | 12.71 | 14.31 | 12.86 | 12.96 | 12.83 | |
| 1039 | 7/3/05 5:00 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1040 | 7/3/05 5:15 | 12.56 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1041 | 7/3/05 5:30 | 12.56 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1042 | 7/3/05 5:45 | 12.56 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1043 | 7/3/05 6:00 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1044 | 7/3/05 6:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1045 | 7/3/05 6:30 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1046 | 7/3/05 6:45 | 12.56 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1047 | 7/3/05 7:00 | 12.56 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1048 | 7/3/05 7:15 | 12.56 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1049 | 7/3/05 7:30 | 12.56 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1050 | 7/3/05 7:45 | 12.56 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1051 | 7/3/05 8:00 | 12.56 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1052 | 7/3/05 8:15 | 12.56 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1053 | 7/3/05 8:30 | 12.56 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1054 | 7/3/05 8:45 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1055 | 7/3/05 9:00 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1056 | 7/3/05 9:15 | 12.71 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1057 | 7/3/05 9:30 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1058 | 7/3/05 9:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1059 | 7/3/05 10:00 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1060 | 7/3/05 10:15 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1061 | 7/3/05 10:30 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1062 | 7/3/05 10:45 | 12.87 | 14.46 | 13.33 | 12.96 | 12.83 | |
| 1063 | 7/3/05 11:00 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1064 | 7/3/05 11:15 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1065 | 7/3/05 11:30 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1066 | 7/3/05 11:45 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1067 | 7/3/05 12:00 | 12.87 | 14.46 | 13.48 | 12.96 | 12.83 | |
| 1068 | 7/3/05 12:15 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1069 | 7/3/05 12:30 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1070 | 7/3/05 12:45 | 13.17 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1071 | 7/3/05 13:00 | 13.94 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1072 | 7/3/05 13:15 | 13.63 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1073 | 7/3/05 13:30 | 13.48 | 14.31 | 13.17 | 12.96 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1074 | 7/3/05 13:45 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1075 | 7/3/05 14:00 | 13.33 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1076 | 7/3/05 14:15 | 13.17 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1077 | 7/3/05 14:30 | 13.17 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1078 | 7/3/05 14:45 | 13.17 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1079 | 7/3/05 15:00 | 13.17 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1080 | 7/3/05 15:15 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1081 | 7/3/05 15:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1082 | 7/3/05 15:45 | 12.71 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1083 | 7/3/05 16:00 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1084 | 7/3/05 16:15 | 12.71 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1085 | 7/3/05 16:30 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1086 | 7/3/05 16:45 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1087 | 7/3/05 17:00 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1088 | 7/3/05 17:15 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1089 | 7/3/05 17:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1090 | 7/3/05 17:45 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1091 | 7/3/05 18:00 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1092 | 7/3/05 18:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1093 | 7/3/05 18:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1094 | 7/3/05 18:45 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1095 | 7/3/05 19:00 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1096 | 7/3/05 19:15 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1097 | 7/3/05 19:30 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1098 | 7/3/05 19:45 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1099 | 7/3/05 20:00 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1100 | 7/3/05 20:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1101 | 7/3/05 20:30 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1102 | 7/3/05 20:45 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1103 | 7/3/05 21:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1104 | 7/3/05 21:15 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1105 | 7/3/05 21:30 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1106 | 7/3/05 21:45 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1107 | 7/3/05 22:00 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1108 | 7/3/05 22:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1109 | 7/3/05 22:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1110 | 7/3/05 22:45 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1111 | 7/3/05 23:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1112 | 7/3/05 23:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1113 | 7/3/05 23:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1114 | 7/3/05 23:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1115 | 7/4/05 0:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1116 | 7/4/05 0:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1117 | 7/4/05 0:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1118 | 7/4/05 0:45 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1119 | 7/4/05 1:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1120 | 7/4/05 1:15 | 13.02 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1121 | 7/4/05 1:30 | 13.02 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1122 | 7/4/05 1:45 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1123 | 7/4/05 2:00 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1124 | 7/4/05 2:15 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1125 | 7/4/05 2:30 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1126 | 7/4/05 2:45 | 12.71 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1127 | 7/4/05 3:00 | 12.71 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 1128 | 7/4/05 3:15 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1129 | 7/4/05 3:30 | 12.71 | 14.31 | 13.48 | 13.11 | 12.83 | |
| 1130 | 7/4/05 3:45 | 12.71 | 14.31 | 13.33 | 12.96 | 12.83 | |
| 1131 | 7/4/05 4:00 | 12.71 | 14.31 | 13.33 | 12.96 | 12.83 | |
| 1132 | 7/4/05 4:15 | 12.71 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1133 | 7/4/05 4:30 | 12.87 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1134 | 7/4/05 4:45 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1135 | 7/4/05 5:00 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1136 | 7/4/05 5:15 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1137 | 7/4/05 5:30 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1138 | 7/4/05 5:45 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1139 | 7/4/05 6:00 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1140 | 7/4/05 6:15 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1141 | 7/4/05 6:30 | 12.71 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1142 | 7/4/05 6:45 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1143 | 7/4/05 7:00 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1144 | 7/4/05 7:15 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1145 | 7/4/05 7:30 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1146 | 7/4/05 7:45 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1147 | 7/4/05 8:00 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1148 | 7/4/05 8:15 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1149 | 7/4/05 8:30 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1150 | 7/4/05 8:45 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1151 | 7/4/05 9:00 | 12.56 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1152 | 7/4/05 9:15 | 12.71 | 14.46 | 13.02 | 12.96 | 12.83 | |
| 1153 | 7/4/05 9:30 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1154 | 7/4/05 9:45 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1155 | 7/4/05 10:00 | 12.71 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1156 | 7/4/05 10:15 | 12.71 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1157 | 7/4/05 10:30 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1158 | 7/4/05 10:45 | 13.17 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1159 | 7/4/05 11:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1160 | 7/4/05 11:15 | 12.87 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1161 | 7/4/05 11:30 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1162 | 7/4/05 11:45 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1163 | 7/4/05 12:00 | 12.71 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 1164 | 7/4/05 12:15 | 12.71 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1165 | 7/4/05 12:30 | 12.71 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1166 | 7/4/05 12:45 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1167 | 7/4/05 13:00 | 12.71 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1168 | 7/4/05 13:15 | 14.26 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1169 | 7/4/05 13:30 | 14.1 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1170 | 7/4/05 13:45 | 13.79 | 14.31 | 13.17 | 12.96 | 12.83 | |
| 1171 | 7/4/05 14:00 | 13.79 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1172 | 7/4/05 14:15 | 13.63 | 14.31 | 13.17 | 12.96 | 12.99 | |
| 1173 | 7/4/05 14:30 | 13.48 | 14.31 | 13.02 | 12.96 | 12.99 | |
| 1174 | 7/4/05 14:45 | 13.33 | 14.31 | 13.02 | 12.96 | 12.99 | |
| 1175 | 7/4/05 15:00 | 13.33 | 14.31 | 13.02 | 12.96 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1176 | 7/4/05 15:15 | 13.17 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 1177 | 7/4/05 15:30 | 13.02 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 1178 | 7/4/05 15:45 | 12.87 | 14.31 | 13.02 | 12.96 | 12.99 | |
| 1179 | 7/4/05 16:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1180 | 7/4/05 16:15 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1181 | 7/4/05 16:30 | 12.87 | 14.31 | 13.02 | 13.27 | 12.83 | |
| 1182 | 7/4/05 16:45 | 12.71 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 1183 | 7/4/05 17:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1184 | 7/4/05 17:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1185 | 7/4/05 17:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1186 | 7/4/05 17:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1187 | 7/4/05 18:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1188 | 7/4/05 18:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1189 | 7/4/05 18:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1190 | 7/4/05 18:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1191 | 7/4/05 19:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1192 | 7/4/05 19:15 | 12.87 | 14.46 | 13.02 | 12.96 | 12.99 | |
| 1193 | 7/4/05 19:30 | 12.87 | 14.46 | 13.02 | 12.96 | 12.99 | |
| 1194 | 7/4/05 19:45 | 12.87 | 14.46 | 13.02 | 12.96 | 12.99 | |
| 1195 | 7/4/05 20:00 | 12.87 | 14.62 | 13.02 | 12.96 | 12.99 | |
| 1196 | 7/4/05 20:15 | 12.87 | 14.62 | 13.02 | 12.96 | 12.99 | |
| 1197 | 7/4/05 20:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1198 | 7/4/05 20:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1199 | 7/4/05 21:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1200 | 7/4/05 21:15 | 12.87 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 1201 | 7/4/05 21:30 | 12.87 | 14.62 | 13.02 | 13.27 | 12.83 | |
| 1202 | 7/4/05 21:45 | 12.87 | 14.62 | 13.02 | 13.42 | 12.99 | |
| 1203 | 7/4/05 22:00 | 12.87 | 14.62 | 13.17 | 13.57 | 12.99 | |
| 1204 | 7/4/05 22:15 | 12.87 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1205 | 7/4/05 22:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1206 | 7/4/05 22:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1207 | 7/4/05 23:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1208 | 7/4/05 23:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1209 | 7/4/05 23:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1210 | 7/4/05 23:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1211 | 7/5/05 0:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1212 | 7/5/05 0:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1213 | 7/5/05 0:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1214 | 7/5/05 0:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1215 | 7/5/05 1:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1216 | 7/5/05 1:15 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1217 | 7/5/05 1:30 | 12.87 | 14.62 | 13.33 | 13.11 | 12.83 | |
| 1218 | 7/5/05 1:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1219 | 7/5/05 2:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1220 | 7/5/05 2:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1221 | 7/5/05 2:30 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1222 | 7/5/05 2:45 | 12.87 | 14.62 | 13.17 | 12.96 | 12.83 | |
| 1223 | 7/5/05 3:00 | 12.87 | 14.46 | 13.17 | 12.96 | 12.99 | |
| 1224 | 7/5/05 3:15 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1225 | 7/5/05 3:30 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1226 | 7/5/05 3:45 | 12.87 | 14.46 | 13.33 | 12.96 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1227 | 7/5/05 4:00 | 12.87 | 14.46 | 13.17 | 12.96 | 12.83 | |
| 1228 | 7/5/05 4:15 | 12.71 | 14.62 | 13.17 | 12.96 | 12.83 | |
| 1229 | 7/5/05 4:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1230 | 7/5/05 4:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1231 | 7/5/05 5:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1232 | 7/5/05 5:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1233 | 7/5/05 5:30 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1234 | 7/5/05 5:45 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1235 | 7/5/05 6:00 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1236 | 7/5/05 6:15 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1237 | 7/5/05 6:30 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1238 | 7/5/05 6:45 | 12.87 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 1239 | 7/5/05 7:00 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1240 | 7/5/05 7:15 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1241 | 7/5/05 7:30 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1242 | 7/5/05 7:45 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1243 | 7/5/05 8:00 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1244 | 7/5/05 8:15 | 12.71 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1245 | 7/5/05 8:30 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1246 | 7/5/05 8:45 | 12.71 | 14.62 | 13.02 | 13.27 | 12.99 | |
| 1247 | 7/5/05 9:00 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1248 | 7/5/05 9:15 | 12.71 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1249 | 7/5/05 9:30 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1250 | 7/5/05 9:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1251 | 7/5/05 10:00 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1252 | 7/5/05 10:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1253 | 7/5/05 10:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1254 | 7/5/05 10:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1255 | 7/5/05 11:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1256 | 7/5/05 11:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1257 | 7/5/05 11:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1258 | 7/5/05 11:45 | 13.02 | 14.62 | 13.33 | 13.11 | 12.99 | |
| 1259 | 7/5/05 12:00 | 13.02 | 14.62 | 13.33 | 12.96 | 12.99 | |
| 1260 | 7/5/05 12:15 | 13.02 | 14.46 | 13.48 | 12.96 | 12.99 | |
| 1261 | 7/5/05 12:30 | 13.02 | 14.46 | 13.33 | 12.96 | 12.99 | |
| 1262 | 7/5/05 12:45 | 13.02 | 14.46 | 13.17 | 12.96 | 12.99 | |
| 1263 | 7/5/05 13:00 | 13.17 | 14.46 | 13.17 | 12.96 | 12.99 | |
| 1264 | 7/5/05 13:15 | 13.63 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1265 | 7/5/05 13:30 | 13.94 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1266 | 7/5/05 13:45 | 13.94 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1267 | 7/5/05 14:00 | 13.79 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1268 | 7/5/05 14:15 | 13.94 | 14.46 | 13.17 | 12.96 | 12.99 | |
| 1269 | 7/5/05 14:30 | 13.79 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1270 | 7/5/05 14:45 | 13.63 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1271 | 7/5/05 15:00 | 13.63 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1272 | 7/5/05 15:15 | 13.63 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1273 | 7/5/05 15:30 | 13.48 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1274 | 7/5/05 15:45 | 13.48 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1275 | 7/5/05 16:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1276 | 7/5/05 16:15 | 12.87 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1277 | 7/5/05 16:30 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1278 | 7/5/05 16:45 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1279 | 7/5/05 17:00 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1280 | 7/5/05 17:15 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1281 | 7/5/05 17:30 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1282 | 7/5/05 17:45 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1283 | 7/5/05 18:00 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1284 | 7/5/05 18:15 | 12.87 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1285 | 7/5/05 18:30 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1286 | 7/5/05 18:45 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1287 | 7/5/05 19:00 | 12.71 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1288 | 7/5/05 19:15 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1289 | 7/5/05 19:30 | 12.71 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1290 | 7/5/05 19:45 | 12.71 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1291 | 7/5/05 20:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1292 | 7/5/05 20:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1293 | 7/5/05 20:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1294 | 7/5/05 20:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1295 | 7/5/05 21:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1296 | 7/5/05 21:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1297 | 7/5/05 21:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1298 | 7/5/05 21:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1299 | 7/5/05 22:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1300 | 7/5/05 22:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1301 | 7/5/05 22:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1302 | 7/5/05 22:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1303 | 7/5/05 23:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1304 | 7/5/05 23:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1305 | 7/5/05 23:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1306 | 7/5/05 23:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1307 | 7/6/05 0:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1308 | 7/6/05 0:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1309 | 7/6/05 0:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1310 | 7/6/05 0:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1311 | 7/6/05 1:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1312 | 7/6/05 1:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1313 | 7/6/05 1:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1314 | 7/6/05 1:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1315 | 7/6/05 2:00 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1316 | 7/6/05 2:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1317 | 7/6/05 2:30 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1318 | 7/6/05 2:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1319 | 7/6/05 3:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1320 | 7/6/05 3:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1321 | 7/6/05 3:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1322 | 7/6/05 3:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1323 | 7/6/05 4:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1324 | 7/6/05 4:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1325 | 7/6/05 4:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1326 | 7/6/05 4:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1327 | 7/6/05 5:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1328 | 7/6/05 5:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1329 | 7/6/05 5:30 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1330 | 7/6/05 5:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1331 | 7/6/05 6:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1332 | 7/6/05 6:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1333 | 7/6/05 6:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1334 | 7/6/05 6:45 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1335 | 7/6/05 7:00 | 12.71 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1336 | 7/6/05 7:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1337 | 7/6/05 7:30 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1338 | 7/6/05 7:45 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1339 | 7/6/05 8:00 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1340 | 7/6/05 8:15 | 12.56 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1341 | 7/6/05 8:30 | 12.56 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1342 | 7/6/05 8:45 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1343 | 7/6/05 9:00 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1344 | 7/6/05 9:15 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1345 | 7/6/05 9:30 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1346 | 7/6/05 9:45 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1347 | 7/6/05 10:00 | 12.71 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1348 | 7/6/05 10:15 | 12.71 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1349 | 7/6/05 10:30 | 12.71 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1350 | 7/6/05 10:45 | 12.71 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1351 | 7/6/05 11:00 | 12.71 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1352 | 7/6/05 11:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1353 | 7/6/05 11:30 | 12.87 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 1354 | 7/6/05 11:45 | 12.87 | 14.62 | 13.63 | 13.27 | 12.83 | |
| 1355 | 7/6/05 12:00 | 13.17 | 14.78 | 13.63 | 13.27 | 12.83 | |
| 1356 | 7/6/05 12:15 | 13.17 | 14.93 | 13.63 | 13.27 | 12.83 | |
| 1357 | 7/6/05 12:30 | 13.02 | 15.09 | 13.79 | 13.27 | 12.83 | |
| 1358 | 7/6/05 12:45 | 12.87 | 14.93 | 13.79 | 13.27 | 12.83 | |
| 1359 | 7/6/05 13:00 | 12.87 | 14.93 | 13.79 | 13.27 | 12.83 | |
| 1360 | 7/6/05 13:15 | 13.02 | 14.78 | 13.79 | 13.11 | 12.83 | |
| 1361 | 7/6/05 13:30 | 13.17 | 14.78 | 13.94 | 13.11 | 12.83 | |
| 1362 | 7/6/05 13:45 | 13.17 | 14.93 | 13.94 | 13.11 | 12.83 | |
| 1363 | 7/6/05 14:00 | 13.17 | 14.78 | 13.94 | 13.11 | 12.83 | |
| 1364 | 7/6/05 14:15 | 13.17 | 14.62 | 13.94 | 13.11 | 12.83 | |
| 1365 | 7/6/05 14:30 | 13.02 | 14.62 | 13.94 | 13.11 | 12.83 | |
| 1366 | 7/6/05 14:45 | 13.02 | 14.62 | 13.94 | 13.27 | 12.83 | |
| 1367 | 7/6/05 15:00 | 13.02 | 14.62 | 13.94 | 13.27 | 12.83 | |
| 1368 | 7/6/05 15:15 | 12.87 | 14.62 | 13.63 | 13.27 | 12.83 | |
| 1369 | 7/6/05 15:30 | 12.87 | 14.62 | 13.63 | 13.11 | 12.83 | |
| 1370 | 7/6/05 15:45 | 12.87 | 14.62 | 13.48 | 13.11 | 12.83 | |
| 1371 | 7/6/05 16:00 | 13.02 | 14.62 | 13.48 | 13.11 | 12.99 | |
| 1372 | 7/6/05 16:15 | 13.02 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1373 | 7/6/05 16:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1374 | 7/6/05 16:45 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1375 | 7/6/05 17:00 | 13.17 | 14.93 | 13.17 | 13.11 | 12.83 | |
| 1376 | 7/6/05 17:15 | 13.17 | 14.78 | 13.17 | 13.11 | 12.83 | |
| 1377 | 7/6/05 17:30 | 13.02 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1378 | 7/6/05 17:45 | 12.87 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1379 | 7/6/05 18:00 | 13.02 | 14.78 | 13.33 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1380 | 7/6/05 18:15 | 13.02 | 14.78 | 13.17 | 13.42 | 12.99 | |
| 1381 | 7/6/05 18:30 | 12.71 | 14.78 | 13.17 | 13.27 | 12.99 | |
| 1382 | 7/6/05 18:45 | 12.87 | 14.78 | 13.17 | 13.27 | 12.99 | |
| 1383 | 7/6/05 19:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1384 | 7/6/05 19:15 | 12.71 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1385 | 7/6/05 19:30 | 12.71 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1386 | 7/6/05 19:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1387 | 7/6/05 20:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1388 | 7/6/05 20:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1389 | 7/6/05 20:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1390 | 7/6/05 20:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1391 | 7/6/05 21:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1392 | 7/6/05 21:15 | 12.71 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1393 | 7/6/05 21:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1394 | 7/6/05 21:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1395 | 7/6/05 22:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1396 | 7/6/05 22:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1397 | 7/6/05 22:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1398 | 7/6/05 22:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1399 | 7/6/05 23:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1400 | 7/6/05 23:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1401 | 7/6/05 23:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1402 | 7/6/05 23:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1403 | 7/7/05 0:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1404 | 7/7/05 0:15 | 12.87 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1405 | 7/7/05 0:30 | 12.87 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1406 | 7/7/05 0:45 | 13.02 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1407 | 7/7/05 1:00 | 13.02 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1408 | 7/7/05 1:15 | 13.02 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1409 | 7/7/05 1:30 | 13.17 | 14.78 | 13.33 | 13.42 | 12.99 | |
| 1410 | 7/7/05 1:45 | 13.17 | 14.78 | 13.33 | 13.27 | 12.99 | |
| 1411 | 7/7/05 2:00 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1412 | 7/7/05 2:15 | 13.17 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1413 | 7/7/05 2:30 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1414 | 7/7/05 2:45 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1415 | 7/7/05 3:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1416 | 7/7/05 3:15 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1417 | 7/7/05 3:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1418 | 7/7/05 3:45 | 12.87 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1419 | 7/7/05 4:00 | 13.02 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1420 | 7/7/05 4:15 | 12.87 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1421 | 7/7/05 4:30 | 12.87 | 14.78 | 13.17 | 13.27 | 12.99 | |
| 1422 | 7/7/05 4:45 | 12.87 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1423 | 7/7/05 5:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1424 | 7/7/05 5:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1425 | 7/7/05 5:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1426 | 7/7/05 5:45 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1427 | 7/7/05 6:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1428 | 7/7/05 6:15 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1429 | 7/7/05 6:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1430 | 7/7/05 6:45 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1431 | 7/7/05 7:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1432 | 7/7/05 7:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1433 | 7/7/05 7:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1434 | 7/7/05 7:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1435 | 7/7/05 8:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1436 | 7/7/05 8:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1437 | 7/7/05 8:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1438 | 7/7/05 8:45 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1439 | 7/7/05 9:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1440 | 7/7/05 9:15 | 13.17 | 14.62 | 13.17 | 13.42 | 12.83 | |
| 1441 | 7/7/05 9:30 | 13.17 | 14.62 | 13.17 | 13.42 | 12.83 | |
| 1442 | 7/7/05 9:45 | 13.17 | 14.62 | 13.17 | 13.42 | 12.83 | |
| 1443 | 7/7/05 10:00 | 13.17 | 14.78 | 13.17 | 13.42 | 12.83 | |
| 1444 | 7/7/05 10:15 | 13.02 | 14.78 | 13.17 | 13.42 | 12.99 | |
| 1445 | 7/7/05 10:30 | 13.17 | 14.78 | 13.17 | 13.42 | 12.83 | |
| 1446 | 7/7/05 10:45 | 13.17 | 14.78 | 13.17 | 13.42 | 12.83 | |
| 1447 | 7/7/05 11:00 | 13.17 | 14.78 | 13.17 | 13.42 | 12.83 | |
| 1448 | 7/7/05 11:15 | 13.17 | 14.78 | 13.17 | 13.42 | 12.83 | |
| 1449 | 7/7/05 11:30 | 13.17 | 14.78 | 13.33 | 13.42 | 12.99 | |
| 1450 | 7/7/05 11:45 | 13.17 | 14.78 | 13.33 | 13.42 | 12.83 | |
| 1451 | 7/7/05 12:00 | 13.33 | 14.78 | 13.48 | 13.42 | 12.99 | |
| 1452 | 7/7/05 12:15 | 13.48 | 14.62 | 13.48 | 13.42 | 12.99 | |
| 1453 | 7/7/05 12:30 | 13.79 | 14.62 | 13.48 | 13.42 | 12.99 | |
| 1454 | 7/7/05 12:45 | 13.63 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1455 | 7/7/05 13:00 | 13.48 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1456 | 7/7/05 13:15 | 13.33 | 14.62 | 13.48 | 13.42 | 12.99 | |
| 1457 | 7/7/05 13:30 | 13.17 | 14.62 | 13.48 | 13.27 | 12.99 | |
| 1458 | 7/7/05 13:45 | 13.17 | 14.62 | 13.63 | 13.27 | 12.99 | |
| 1459 | 7/7/05 14:00 | 13.02 | 14.62 | 13.79 | 13.27 | 12.99 | |
| 1460 | 7/7/05 14:15 | 13.02 | 14.46 | 13.79 | 13.27 | 12.99 | |
| 1461 | 7/7/05 14:30 | 12.87 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1462 | 7/7/05 14:45 | 12.87 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1463 | 7/7/05 15:00 | 12.87 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1464 | 7/7/05 15:15 | 12.87 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1465 | 7/7/05 15:30 | 13.33 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1466 | 7/7/05 15:45 | 13.63 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1467 | 7/7/05 16:00 | 14.26 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1468 | 7/7/05 16:15 | 13.63 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1469 | 7/7/05 16:30 | 13.33 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1470 | 7/7/05 16:45 | 13.33 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1471 | 7/7/05 17:00 | 13.33 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1472 | 7/7/05 17:15 | 13.33 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1473 | 7/7/05 17:30 | 13.17 | 14.46 | 13.33 | 13.42 | 12.99 | |
| 1474 | 7/7/05 17:45 | 13.17 | 14.46 | 13.33 | 13.42 | 12.99 | |
| 1475 | 7/7/05 18:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1476 | 7/7/05 18:15 | 13.17 | 14.46 | 13.17 | 13.42 | 12.99 | |
| 1477 | 7/7/05 18:30 | 13.17 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1478 | 7/7/05 18:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1479 | 7/7/05 19:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1480 | 7/7/05 19:15 | 13.02 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1481 | 7/7/05 19:30 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1482 | 7/7/05 19:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1483 | 7/7/05 20:00 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1484 | 7/7/05 20:15 | 13.02 | 14.62 | 13.33 | 13.11 | 12.99 | |
| 1485 | 7/7/05 20:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1486 | 7/7/05 20:45 | 13.17 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1487 | 7/7/05 21:00 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1488 | 7/7/05 21:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1489 | 7/7/05 21:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1490 | 7/7/05 21:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1491 | 7/7/05 22:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1492 | 7/7/05 22:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1493 | 7/7/05 22:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1494 | 7/7/05 22:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1495 | 7/7/05 23:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1496 | 7/7/05 23:15 | 13.02 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1497 | 7/7/05 23:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1498 | 7/7/05 23:45 | 12.87 | 14.62 | 13.17 | 13.57 | 13.14 | |
| 1499 | 7/8/05 0:00 | 12.87 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1500 | 7/8/05 0:15 | 12.87 | 14.62 | 13.17 | 13.27 | 13.3 | |
| 1501 | 7/8/05 0:30 | 12.87 | 14.62 | 13.17 | 13.27 | 13.3 | |
| 1502 | 7/8/05 0:45 | 12.87 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1503 | 7/8/05 1:00 | 12.87 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1504 | 7/8/05 1:15 | 12.87 | 14.62 | 13.17 | 13.27 | 13.3 | |
| 1505 | 7/8/05 1:30 | 12.87 | 14.62 | 13.33 | 13.27 | 13.3 | |
| 1506 | 7/8/05 1:45 | 12.87 | 14.62 | 13.33 | 13.27 | 13.14 | |
| 1507 | 7/8/05 2:00 | 12.87 | 14.62 | 13.33 | 13.27 | 13.14 | |
| 1508 | 7/8/05 2:15 | 12.87 | 14.62 | 13.33 | 13.27 | 13.14 | |
| 1509 | 7/8/05 2:30 | 12.87 | 14.62 | 13.33 | 13.27 | 13.14 | |
| 1510 | 7/8/05 2:45 | 12.87 | 14.62 | 13.17 | 13.27 | 13.14 | |
| 1511 | 7/8/05 3:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1512 | 7/8/05 3:15 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1513 | 7/8/05 3:30 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1514 | 7/8/05 3:45 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1515 | 7/8/05 4:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1516 | 7/8/05 4:15 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1517 | 7/8/05 4:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1518 | 7/8/05 4:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1519 | 7/8/05 5:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1520 | 7/8/05 5:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1521 | 7/8/05 5:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1522 | 7/8/05 5:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1523 | 7/8/05 6:00 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1524 | 7/8/05 6:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1525 | 7/8/05 6:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1526 | 7/8/05 6:45 | 13.17 | 14.62 | 13.02 | 13.27 | 12.99 | |
| 1527 | 7/8/05 7:00 | 13.17 | 14.62 | 13.02 | 13.27 | 12.99 | |
| 1528 | 7/8/05 7:15 | 13.02 | 14.62 | 13.02 | 13.27 | 12.99 | |
| 1529 | 7/8/05 7:30 | 13.02 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1530 | 7/8/05 7:45 | 13.02 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1531 | 7/8/05 8:00 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1532 | 7/8/05 8:15 | 12.87 | 14.62 | 13.02 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1533 | 7/8/05 8:30 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1534 | 7/8/05 8:45 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1535 | 7/8/05 9:00 | 12.87 | 14.62 | 13.02 | 13.11 | 12.99 | |
| 1536 | 7/8/05 9:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1537 | 7/8/05 9:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1538 | 7/8/05 9:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1539 | 7/8/05 10:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1540 | 7/8/05 10:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1541 | 7/8/05 10:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1542 | 7/8/05 10:45 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1543 | 7/8/05 11:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1544 | 7/8/05 11:15 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1545 | 7/8/05 11:30 | 12.87 | 14.46 | 13.33 | 13.42 | 12.99 | |
| 1546 | 7/8/05 11:45 | 12.71 | 14.46 | 13.33 | 13.42 | 12.99 | |
| 1547 | 7/8/05 12:00 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1548 | 7/8/05 12:15 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1549 | 7/8/05 12:30 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1550 | 7/8/05 12:45 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1551 | 7/8/05 13:00 | 12.71 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1552 | 7/8/05 13:15 | 12.87 | 14.46 | 13.48 | 13.11 | 12.99 | |
| 1553 | 7/8/05 13:30 | 13.02 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1554 | 7/8/05 13:45 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1555 | 7/8/05 14:00 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1556 | 7/8/05 14:15 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1557 | 7/8/05 14:30 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1558 | 7/8/05 14:45 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1559 | 7/8/05 15:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1560 | 7/8/05 15:15 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1561 | 7/8/05 15:30 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1562 | 7/8/05 15:45 | 12.87 | 14.62 | 13.33 | 13.11 | 12.83 | |
| 1563 | 7/8/05 16:00 | 13.17 | 14.62 | 13.33 | 13.11 | 12.83 | |
| 1564 | 7/8/05 16:15 | 13.17 | 14.62 | 13.33 | 13.11 | 12.83 | |
| 1565 | 7/8/05 16:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1566 | 7/8/05 16:45 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1567 | 7/8/05 17:00 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1568 | 7/8/05 17:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1569 | 7/8/05 17:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1570 | 7/8/05 17:45 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1571 | 7/8/05 18:00 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1572 | 7/8/05 18:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1573 | 7/8/05 18:30 | 13.17 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1574 | 7/8/05 18:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1575 | 7/8/05 19:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1576 | 7/8/05 19:15 | 12.87 | 14.62 | 13.48 | 13.27 | 12.99 | |
| 1577 | 7/8/05 19:30 | 12.87 | 14.62 | 13.48 | 13.27 | 12.99 | |
| 1578 | 7/8/05 19:45 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1579 | 7/8/05 20:00 | 13.02 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1580 | 7/8/05 20:15 | 12.87 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1581 | 7/8/05 20:30 | 12.87 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 1582 | 7/8/05 20:45 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1583 | 7/8/05 21:00 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1584 | 7/8/05 21:15 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1585 | 7/8/05 21:30 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1586 | 7/8/05 21:45 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1587 | 7/8/05 22:00 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1588 | 7/8/05 22:15 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1589 | 7/8/05 22:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1590 | 7/8/05 22:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1591 | 7/8/05 23:00 | 12.87 | 14.46 | 13.17 | 13.42 | 12.99 | |
| 1592 | 7/8/05 23:15 | 12.87 | 14.46 | 13.17 | 13.42 | 12.99 | |
| 1593 | 7/8/05 23:30 | 12.87 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 1594 | 7/8/05 23:45 | 12.87 | 14.31 | 13.17 | 13.42 | 12.99 | |
| 1595 | 7/9/05 0:00 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1596 | 7/9/05 0:15 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1597 | 7/9/05 0:30 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1598 | 7/9/05 0:45 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1599 | 7/9/05 1:00 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1600 | 7/9/05 1:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1601 | 7/9/05 1:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1602 | 7/9/05 1:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1603 | 7/9/05 2:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1604 | 7/9/05 2:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1605 | 7/9/05 2:30 | 12.87 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1606 | 7/9/05 2:45 | 12.87 | 14.78 | 13.17 | 13.11 | 12.99 | |
| 1607 | 7/9/05 3:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1608 | 7/9/05 3:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1609 | 7/9/05 3:30 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1610 | 7/9/05 3:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1611 | 7/9/05 4:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1612 | 7/9/05 4:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1613 | 7/9/05 4:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1614 | 7/9/05 4:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1615 | 7/9/05 5:00 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1616 | 7/9/05 5:15 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1617 | 7/9/05 5:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1618 | 7/9/05 5:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1619 | 7/9/05 6:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1620 | 7/9/05 6:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1621 | 7/9/05 6:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1622 | 7/9/05 6:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1623 | 7/9/05 7:00 | 12.87 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 1624 | 7/9/05 7:15 | 12.87 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 1625 | 7/9/05 7:30 | 12.87 | 14.78 | 12.86 | 13.11 | 12.83 | |
| 1626 | 7/9/05 7:45 | 12.87 | 14.62 | 12.86 | 13.11 | 12.83 | |
| 1627 | 7/9/05 8:00 | 12.87 | 14.62 | 12.86 | 13.11 | 12.83 | |
| 1628 | 7/9/05 8:15 | 12.87 | 14.46 | 12.86 | 13.27 | 12.83 | |
| 1629 | 7/9/05 8:30 | 13.02 | 14.62 | 12.86 | 13.27 | 12.83 | |
| 1630 | 7/9/05 8:45 | 13.02 | 14.62 | 12.86 | 13.27 | 12.83 | |
| 1631 | 7/9/05 9:00 | 13.02 | 14.62 | 12.86 | 13.11 | 12.83 | |
| 1632 | 7/9/05 9:15 | 12.87 | 14.62 | 12.86 | 13.27 | 12.83 | |
| 1633 | 7/9/05 9:30 | 13.02 | 14.62 | 12.86 | 13.11 | 12.83 | |
| 1634 | 7/9/05 9:45 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1635 | 7/9/05 10:00 | 13.17 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 1636 | 7/9/05 10:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1637 | 7/9/05 10:30 | 13.02 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1638 | 7/9/05 10:45 | 13.02 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1639 | 7/9/05 11:00 | 13.02 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1640 | 7/9/05 11:15 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1641 | 7/9/05 11:30 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1642 | 7/9/05 11:45 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1643 | 7/9/05 12:00 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1644 | 7/9/05 12:15 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1645 | 7/9/05 12:30 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1646 | 7/9/05 12:45 | 13.17 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1647 | 7/9/05 13:00 | 13.33 | 14.78 | 13.17 | 13.27 | 12.83 | |
| 1648 | 7/9/05 13:15 | 13.33 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1649 | 7/9/05 13:30 | 13.33 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1650 | 7/9/05 13:45 | 13.33 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1651 | 7/9/05 14:00 | 13.33 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1652 | 7/9/05 14:15 | 13.33 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1653 | 7/9/05 14:30 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1654 | 7/9/05 14:45 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1655 | 7/9/05 15:00 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1656 | 7/9/05 15:15 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1657 | 7/9/05 15:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1658 | 7/9/05 15:45 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1659 | 7/9/05 16:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1660 | 7/9/05 16:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1661 | 7/9/05 16:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1662 | 7/9/05 16:45 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1663 | 7/9/05 17:00 | 12.87 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1664 | 7/9/05 17:15 | 13.02 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1665 | 7/9/05 17:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1666 | 7/9/05 17:45 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1667 | 7/9/05 18:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1668 | 7/9/05 18:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1669 | 7/9/05 18:30 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1670 | 7/9/05 18:45 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1671 | 7/9/05 19:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1672 | 7/9/05 19:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1673 | 7/9/05 19:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1674 | 7/9/05 19:45 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1675 | 7/9/05 20:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1676 | 7/9/05 20:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1677 | 7/9/05 20:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1678 | 7/9/05 20:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1679 | 7/9/05 21:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1680 | 7/9/05 21:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1681 | 7/9/05 21:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1682 | 7/9/05 21:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1683 | 7/9/05 22:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1684 | 7/9/05 22:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1685 | 7/9/05 22:30 | 12.87 | 14.62 | 13.02 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1686 | 7/9/05 22:45 | 12.87 | 14.62 | 13.02 | 13.27 | 12.83 | |
| 1687 | 7/9/05 23:00 | 12.87 | 14.62 | 13.02 | 13.27 | 12.83 | |
| 1688 | 7/9/05 23:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1689 | 7/9/05 23:30 | 12.87 | 14.62 | 13.02 | 13.27 | 12.83 | |
| 1690 | 7/9/05 23:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1691 | 7/10/05 0:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1692 | 7/10/05 0:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1693 | 7/10/05 0:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1694 | 7/10/05 0:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1695 | 7/10/05 1:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1696 | 7/10/05 1:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1697 | 7/10/05 1:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1698 | 7/10/05 1:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1699 | 7/10/05 2:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1700 | 7/10/05 2:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1701 | 7/10/05 2:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1702 | 7/10/05 2:45 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1703 | 7/10/05 3:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1704 | 7/10/05 3:15 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1705 | 7/10/05 3:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1706 | 7/10/05 3:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1707 | 7/10/05 4:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1708 | 7/10/05 4:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1709 | 7/10/05 4:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1710 | 7/10/05 4:45 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1711 | 7/10/05 5:00 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1712 | 7/10/05 5:15 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1713 | 7/10/05 5:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1714 | 7/10/05 5:45 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1715 | 7/10/05 6:00 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1716 | 7/10/05 6:15 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1717 | 7/10/05 6:30 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1718 | 7/10/05 6:45 | 13.17 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1719 | 7/10/05 7:00 | 13.33 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1720 | 7/10/05 7:15 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1721 | 7/10/05 7:30 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1722 | 7/10/05 7:45 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1723 | 7/10/05 8:00 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1724 | 7/10/05 8:15 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1725 | 7/10/05 8:30 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1726 | 7/10/05 8:45 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1727 | 7/10/05 9:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1728 | 7/10/05 9:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1729 | 7/10/05 9:30 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1730 | 7/10/05 9:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1731 | 7/10/05 10:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1732 | 7/10/05 10:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1733 | 7/10/05 10:30 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1734 | 7/10/05 10:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1735 | 7/10/05 11:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1736 | 7/10/05 11:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1737 | 7/10/05 11:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1738 | 7/10/05 11:45 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1739 | 7/10/05 12:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1740 | 7/10/05 12:15 | 13.02 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1741 | 7/10/05 12:30 | 13.02 | 15.26 | 13.33 | 13.27 | 12.83 | |
| 1742 | 7/10/05 12:45 | 13.02 | 15.41 | 13.33 | 13.27 | 12.83 | |
| 1743 | 7/10/05 13:00 | 13.02 | 15.26 | 13.33 | 13.27 | 12.83 | |
| 1744 | 7/10/05 13:15 | 13.02 | 15.09 | 13.33 | 13.42 | 12.83 | |
| 1745 | 7/10/05 13:30 | 13.02 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1746 | 7/10/05 13:45 | 13.17 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1747 | 7/10/05 14:00 | 13.02 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1748 | 7/10/05 14:15 | 13.17 | 14.78 | 13.33 | 13.27 | 12.83 | |
| 1749 | 7/10/05 14:30 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1750 | 7/10/05 14:45 | 13.17 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 1751 | 7/10/05 15:00 | 13.02 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 1752 | 7/10/05 15:15 | 12.87 | 14.62 | 13.48 | 13.11 | 12.83 | |
| 1753 | 7/10/05 15:30 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 1754 | 7/10/05 15:45 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 1755 | 7/10/05 16:00 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1756 | 7/10/05 16:15 | 12.87 | 14.31 | 13.48 | 13.27 | 12.83 | |
| 1757 | 7/10/05 16:30 | 12.71 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1758 | 7/10/05 16:45 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1759 | 7/10/05 17:00 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1760 | 7/10/05 17:15 | 12.87 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1761 | 7/10/05 17:30 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1762 | 7/10/05 17:45 | 13.17 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1763 | 7/10/05 18:00 | 13.33 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1764 | 7/10/05 18:15 | 13.33 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1765 | 7/10/05 18:30 | 13.48 | 14.31 | 13.17 | 13.42 | 12.83 | |
| 1766 | 7/10/05 18:45 | 13.48 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1767 | 7/10/05 19:00 | 13.48 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1768 | 7/10/05 19:15 | 13.48 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1769 | 7/10/05 19:30 | 13.33 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1770 | 7/10/05 19:45 | 13.02 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1771 | 7/10/05 20:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1772 | 7/10/05 20:15 | 12.87 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1773 | 7/10/05 20:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1774 | 7/10/05 20:45 | 12.87 | 14.46 | 13.02 | 13.11 | 13.14 | |
| 1775 | 7/10/05 21:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1776 | 7/10/05 21:15 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1777 | 7/10/05 21:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1778 | 7/10/05 21:45 | 12.87 | 14.46 | 13.17 | 13.27 | 13.14 | |
| 1779 | 7/10/05 22:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1780 | 7/10/05 22:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1781 | 7/10/05 22:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1782 | 7/10/05 22:45 | 12.87 | 14.31 | 13.02 | 13.27 | 12.99 | |
| 1783 | 7/10/05 23:00 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1784 | 7/10/05 23:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1785 | 7/10/05 23:30 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1786 | 7/10/05 23:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1787 | 7/11/05 0:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1788 | 7/11/05 0:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1789 | 7/11/05 0:30 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1790 | 7/11/05 0:45 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1791 | 7/11/05 1:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1792 | 7/11/05 1:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1793 | 7/11/05 1:30 | 12.87 | 14.46 | 13.02 | 13.27 | 12.99 | |
| 1794 | 7/11/05 1:45 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1795 | 7/11/05 2:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1796 | 7/11/05 2:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1797 | 7/11/05 2:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1798 | 7/11/05 2:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1799 | 7/11/05 3:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1800 | 7/11/05 3:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1801 | 7/11/05 3:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1802 | 7/11/05 3:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1803 | 7/11/05 4:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1804 | 7/11/05 4:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1805 | 7/11/05 4:30 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1806 | 7/11/05 4:45 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1807 | 7/11/05 5:00 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 1808 | 7/11/05 5:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1809 | 7/11/05 5:30 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1810 | 7/11/05 5:45 | 12.87 | 14.31 | 13.17 | 13.27 | 12.99 | |
| 1811 | 7/11/05 6:00 | 12.87 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1812 | 7/11/05 6:15 | 12.87 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1813 | 7/11/05 6:30 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1814 | 7/11/05 6:45 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1815 | 7/11/05 7:00 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1816 | 7/11/05 7:15 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1817 | 7/11/05 7:30 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1818 | 7/11/05 7:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1819 | 7/11/05 8:00 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1820 | 7/11/05 8:15 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1821 | 7/11/05 8:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1822 | 7/11/05 8:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1823 | 7/11/05 9:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1824 | 7/11/05 9:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1825 | 7/11/05 9:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1826 | 7/11/05 9:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1827 | 7/11/05 10:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 1828 | 7/11/05 10:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1829 | 7/11/05 10:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1830 | 7/11/05 10:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1831 | 7/11/05 11:00 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 1832 | 7/11/05 11:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1833 | 7/11/05 11:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1834 | 7/11/05 11:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1835 | 7/11/05 12:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1836 | 7/11/05 12:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1837 | 7/11/05 12:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1838 | 7/11/05 12:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1839 | 7/11/05 13:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1840 | 7/11/05 13:15 | 12.87 | 14.62 | 13.17 | 13.42 | 12.99 | |
| 1841 | 7/11/05 13:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1842 | 7/11/05 13:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1843 | 7/11/05 14:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1844 | 7/11/05 14:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1845 | 7/11/05 14:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1846 | 7/11/05 14:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.99 | |
| 1847 | 7/11/05 15:00 | 13.02 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 1848 | 7/11/05 15:15 | 13.02 | 14.62 | 13.33 | 13.11 | 12.99 | |
| 1849 | 7/11/05 15:30 | 13.17 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1850 | 7/11/05 15:45 | 13.02 | 14.62 | 13.33 | 13.11 | 12.99 | |
| 1851 | 7/11/05 16:00 | 13.02 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1852 | 7/11/05 16:15 | 12.87 | 14.46 | 13.48 | 13.27 | 12.99 | |
| 1853 | 7/11/05 16:30 | 12.87 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1854 | 7/11/05 16:45 | 12.87 | 14.46 | 13.33 | 13.11 | 12.99 | |
| 1855 | 7/11/05 17:00 | 12.87 | 14.46 | 13.33 | 13.11 | 12.83 | |
| 1856 | 7/11/05 17:15 | 12.87 | 14.31 | 13.33 | 13.11 | 12.99 | |
| 1857 | 7/11/05 17:30 | 12.87 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 1858 | 7/11/05 17:45 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1859 | 7/11/05 18:00 | 12.87 | 14.31 | 13.33 | 13.27 | 12.83 | |
| 1860 | 7/11/05 18:15 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 1861 | 7/11/05 18:30 | 12.87 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 1862 | 7/11/05 18:45 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1863 | 7/11/05 19:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1864 | 7/11/05 19:15 | 13.02 | 14.93 | 13.17 | 13.11 | 12.99 | |
| 1865 | 7/11/05 19:30 | 13.17 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1866 | 7/11/05 19:45 | 13.02 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1867 | 7/11/05 20:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 1868 | 7/11/05 20:15 | 13.02 | 14.31 | 13.33 | 13.27 | 12.99 | |
| 1869 | 7/11/05 20:30 | 13.02 | 14.31 | 13.48 | 13.27 | 12.99 | |
| 1870 | 7/11/05 20:45 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1871 | 7/11/05 21:00 | 13.02 | 14.46 | 13.33 | 13.27 | 12.99 | |
| 1872 | 7/11/05 21:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1873 | 7/11/05 21:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1874 | 7/11/05 21:45 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1875 | 7/11/05 22:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1876 | 7/11/05 22:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 1877 | 7/11/05 22:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1878 | 7/11/05 22:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1879 | 7/11/05 23:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1880 | 7/11/05 23:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1881 | 7/11/05 23:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1882 | 7/11/05 23:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1883 | 7/12/05 0:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1884 | 7/12/05 0:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1885 | 7/12/05 0:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1886 | 7/12/05 0:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1887 | 7/12/05 1:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1888 | 7/12/05 1:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1889 | 7/12/05 1:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1890 | 7/12/05 1:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1891 | 7/12/05 2:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1892 | 7/12/05 2:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 1893 | 7/12/05 2:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1894 | 7/12/05 2:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1895 | 7/12/05 3:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1896 | 7/12/05 3:15 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1897 | 7/12/05 3:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1898 | 7/12/05 3:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1899 | 7/12/05 4:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1900 | 7/12/05 4:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1901 | 7/12/05 4:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1902 | 7/12/05 4:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1903 | 7/12/05 5:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1904 | 7/12/05 5:15 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1905 | 7/12/05 5:30 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1906 | 7/12/05 5:45 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1907 | 7/12/05 6:00 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1908 | 7/12/05 6:15 | 13.02 | 14.31 | 13.33 | 13.11 | 12.83 | |
| 1909 | 7/12/05 6:30 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1910 | 7/12/05 6:45 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1911 | 7/12/05 7:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1912 | 7/12/05 7:15 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1913 | 7/12/05 7:30 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1914 | 7/12/05 7:45 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1915 | 7/12/05 8:00 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1916 | 7/12/05 8:15 | 13.17 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1917 | 7/12/05 8:30 | 13.17 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1918 | 7/12/05 8:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1919 | 7/12/05 9:00 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1920 | 7/12/05 9:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1921 | 7/12/05 9:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1922 | 7/12/05 9:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1923 | 7/12/05 10:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1924 | 7/12/05 10:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1925 | 7/12/05 10:30 | 12.87 | 14.46 | 12.86 | 13.11 | 12.83 | |
| 1926 | 7/12/05 10:45 | 12.87 | 14.31 | 12.86 | 13.11 | 12.83 | |
| 1927 | 7/12/05 11:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1928 | 7/12/05 11:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1929 | 7/12/05 11:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1930 | 7/12/05 11:45 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1931 | 7/12/05 12:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1932 | 7/12/05 12:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1933 | 7/12/05 12:30 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1934 | 7/12/05 12:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1935 | 7/12/05 13:00 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1936 | 7/12/05 13:15 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1937 | 7/12/05 13:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1938 | 7/12/05 13:45 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1939 | 7/12/05 14:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1940 | 7/12/05 14:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1941 | 7/12/05 14:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1942 | 7/12/05 14:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1943 | 7/12/05 15:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1944 | 7/12/05 15:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1945 | 7/12/05 15:30 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 1946 | 7/12/05 15:45 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 1947 | 7/12/05 16:00 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1948 | 7/12/05 16:15 | 13.02 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1949 | 7/12/05 16:30 | 13.17 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1950 | 7/12/05 16:45 | 13.17 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1951 | 7/12/05 17:00 | 13.17 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1952 | 7/12/05 17:15 | 13.17 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1953 | 7/12/05 17:30 | 13.17 | 14.31 | 13.17 | 13.27 | 12.83 | |
| 1954 | 7/12/05 17:45 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1955 | 7/12/05 18:00 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1956 | 7/12/05 18:15 | 13.02 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1957 | 7/12/05 18:30 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1958 | 7/12/05 18:45 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1959 | 7/12/05 19:00 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1960 | 7/12/05 19:15 | 12.87 | 14.31 | 13.17 | 13.11 | 12.83 | |
| 1961 | 7/12/05 19:30 | 12.87 | 14.31 | 13.02 | 13.11 | 12.99 | |
| 1962 | 7/12/05 19:45 | 12.87 | 14.31 | 13.02 | 12.96 | 12.83 | |
| 1963 | 7/12/05 20:00 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1964 | 7/12/05 20:15 | 12.87 | 14.31 | 13.02 | 13.11 | 12.83 | |
| 1965 | 7/12/05 20:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1966 | 7/12/05 20:45 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1967 | 7/12/05 21:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1968 | 7/12/05 21:15 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1969 | 7/12/05 21:30 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1970 | 7/12/05 21:45 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1971 | 7/12/05 22:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1972 | 7/12/05 22:15 | 13.02 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1973 | 7/12/05 22:30 | 13.02 | 14.46 | 13.02 | 13.11 | 12.99 | |
| 1974 | 7/12/05 22:45 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1975 | 7/12/05 23:00 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1976 | 7/12/05 23:15 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1977 | 7/12/05 23:30 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1978 | 7/12/05 23:45 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1979 | 7/13/05 0:00 | 12.87 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1980 | 7/13/05 0:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1981 | 7/13/05 0:30 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1982 | 7/13/05 0:45 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1983 | 7/13/05 1:00 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1984 | 7/13/05 1:15 | 12.87 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1985 | 7/13/05 1:30 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1986 | 7/13/05 1:45 | 13.17 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1987 | 7/13/05 2:00 | 13.17 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1988 | 7/13/05 2:15 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1989 | 7/13/05 2:30 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1990 | 7/13/05 2:45 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1991 | 7/13/05 3:00 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 1992 | 7/13/05 3:15 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1993 | 7/13/05 3:30 | 13.02 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 1994 | 7/13/05 3:45 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1995 | 7/13/05 4:00 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1996 | 7/13/05 4:15 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1997 | 7/13/05 4:30 | 13.02 | 14.46 | 13.02 | 13.27 | 12.83 | |
| 1998 | 7/13/05 4:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 1999 | 7/13/05 5:00 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2000 | 7/13/05 5:15 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2001 | 7/13/05 5:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2002 | 7/13/05 5:45 | 13.02 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2003 | 7/13/05 6:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2004 | 7/13/05 6:15 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2005 | 7/13/05 6:30 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2006 | 7/13/05 6:45 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2007 | 7/13/05 7:00 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2008 | 7/13/05 7:15 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2009 | 7/13/05 7:30 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2010 | 7/13/05 7:45 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2011 | 7/13/05 8:00 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2012 | 7/13/05 8:15 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2013 | 7/13/05 8:30 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2014 | 7/13/05 8:45 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2015 | 7/13/05 9:00 | 13.48 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2016 | 7/13/05 9:15 | 13.48 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2017 | 7/13/05 9:30 | 13.48 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2018 | 7/13/05 9:45 | 13.48 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 2019 | 7/13/05 10:00 | 13.33 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 2020 | 7/13/05 10:15 | 13.17 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2021 | 7/13/05 10:30 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2022 | 7/13/05 10:45 | 13.17 | 14.46 | 13.02 | 13.11 | 12.83 | |
| 2023 | 7/13/05 11:00 | 13.17 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2024 | 7/13/05 11:15 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2025 | 7/13/05 11:30 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2026 | 7/13/05 11:45 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2027 | 7/13/05 12:00 | 13.02 | 14.62 | 13.02 | 13.11 | 12.83 | |
| 2028 | 7/13/05 12:15 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2029 | 7/13/05 12:30 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2030 | 7/13/05 12:45 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2031 | 7/13/05 13:00 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2032 | 7/13/05 13:15 | 13.02 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2033 | 7/13/05 13:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2034 | 7/13/05 13:45 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2035 | 7/13/05 14:00 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2036 | 7/13/05 14:15 | 13.17 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2037 | 7/13/05 14:30 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2038 | 7/13/05 14:45 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2039 | 7/13/05 15:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2040 | 7/13/05 15:15 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2041 | 7/13/05 15:30 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2042 | 7/13/05 15:45 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2043 | 7/13/05 16:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2044 | 7/13/05 16:15 | 13.33 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2045 | 7/13/05 16:30 | 13.33 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2046 | 7/13/05 16:45 | 13.33 | 14.62 | 13.17 | 13.11 | 12.83 | |
| 2047 | 7/13/05 17:00 | 13.33 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2048 | 7/13/05 17:15 | 13.17 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2049 | 7/13/05 17:30 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2050 | 7/13/05 17:45 | 13.17 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2051 | 7/13/05 18:00 | 13.33 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2052 | 7/13/05 18:15 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2053 | 7/13/05 18:30 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2054 | 7/13/05 18:45 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2055 | 7/13/05 19:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2056 | 7/13/05 19:15 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2057 | 7/13/05 19:30 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2058 | 7/13/05 19:45 | 13.48 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2059 | 7/13/05 20:00 | 14.1 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2060 | 7/13/05 20:15 | 13.48 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2061 | 7/13/05 20:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2062 | 7/13/05 20:45 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2063 | 7/13/05 21:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2064 | 7/13/05 21:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2065 | 7/13/05 21:30 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2066 | 7/13/05 21:45 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2067 | 7/13/05 22:00 | 13.17 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 2068 | 7/13/05 22:15 | 13.02 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 2069 | 7/13/05 22:30 | 13.02 | 14.31 | 13.17 | 13.11 | 12.99 | |
| 2070 | 7/13/05 22:45 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 2071 | 7/13/05 23:00 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 2072 | 7/13/05 23:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 2073 | 7/13/05 23:30 | 12.87 | 14.46 | 13.17 | 13.11 | 12.99 | |
| 2074 | 7/13/05 23:45 | 12.87 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2075 | 7/14/05 0:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2076 | 7/14/05 0:15 | 12.87 | 14.78 | 13.17 | 13.27 | 12.99 | |
| 2077 | 7/14/05 0:30 | 12.87 | 14.62 | 13.17 | 13.27 | 12.99 | |
| 2078 | 7/14/05 0:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2079 | 7/14/05 1:00 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2080 | 7/14/05 1:15 | 13.02 | 14.46 | 13.17 | 13.11 | 12.83 | |
| 2081 | 7/14/05 1:30 | 12.87 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2082 | 7/14/05 1:45 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2083 | 7/14/05 2:00 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2084 | 7/14/05 2:15 | 12.87 | 14.62 | 13.17 | 13.27 | 12.83 | |
| 2085 | 7/14/05 2:30 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2086 | 7/14/05 2:45 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2087 | 7/14/05 3:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2088 | 7/14/05 3:15 | 12.87 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2089 | 7/14/05 3:30 | 12.87 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2090 | 7/14/05 3:45 | 12.87 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2091 | 7/14/05 4:00 | 12.87 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2092 | 7/14/05 4:15 | 13.02 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2093 | 7/14/05 4:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2094 | 7/14/05 4:45 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2095 | 7/14/05 5:00 | 13.02 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2096 | 7/14/05 5:15 | 13.02 | 14.62 | 13.48 | 13.42 | 12.83 | |
| 2097 | 7/14/05 5:30 | 13.02 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2098 | 7/14/05 5:45 | 13.02 | 14.62 | 13.48 | 13.42 | 12.83 | |
| 2099 | 7/14/05 6:00 | 13.02 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2100 | 7/14/05 6:15 | 13.17 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 2101 | 7/14/05 6:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2102 | 7/14/05 6:45 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2103 | 7/14/05 7:00 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2104 | 7/14/05 7:15 | 13.02 | 14.46 | 13.48 | 13.42 | 12.83 | |
| 2105 | 7/14/05 7:30 | 13.02 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 2106 | 7/14/05 7:45 | 13.02 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2107 | 7/14/05 8:00 | 12.87 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2108 | 7/14/05 8:15 | 12.87 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2109 | 7/14/05 8:30 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 2110 | 7/14/05 8:45 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 2111 | 7/14/05 9:00 | 12.87 | 14.46 | 13.48 | 13.27 | 12.83 | |
| 2112 | 7/14/05 9:15 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2113 | 7/14/05 9:30 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2114 | 7/14/05 9:45 | 12.87 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2115 | 7/14/05 10:00 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2116 | 7/14/05 10:15 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2117 | 7/14/05 10:30 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2118 | 7/14/05 10:45 | 13.17 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2119 | 7/14/05 11:00 | 13.17 | 14.46 | 13.17 | 13.27 | 12.99 | |
| 2120 | 7/14/05 11:15 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2121 | 7/14/05 11:30 | 13.17 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2122 | 7/14/05 11:45 | 13.17 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2123 | 7/14/05 12:00 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2124 | 7/14/05 12:15 | 13.33 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2125 | 7/14/05 12:30 | 13.02 | 14.46 | 13.17 | 13.27 | 12.83 | |
| 2126 | 7/14/05 12:45 | 13.17 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2127 | 7/14/05 13:00 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2128 | 7/14/05 13:15 | 13.02 | 14.46 | 13.33 | 13.27 | 12.83 | |
| 2129 | 7/14/05 13:30 | 12.87 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 2130 | 7/14/05 13:45 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2131 | 7/14/05 14:00 | 12.87 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2132 | 7/14/05 14:15 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2133 | 7/14/05 14:30 | 13.02 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2134 | 7/14/05 14:45 | 12.87 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2135 | 7/14/05 15:00 | 13.17 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2136 | 7/14/05 15:15 | 13.17 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2137 | 7/14/05 15:30 | 13.17 | 14.62 | 13.48 | 13.27 | 12.83 | |
| 2138 | 7/14/05 15:45 | 13.17 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2139 | 7/14/05 16:00 | 13.17 | 14.78 | 13.33 | 13.42 | 12.83 | |
| 2140 | 7/14/05 16:15 | 13.48 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2141 | 7/14/05 16:30 | 13.33 | 14.62 | 13.33 | 13.42 | 12.83 | |
| 2142 | 7/14/05 16:45 | 13.33 | 14.62 | 13.33 | 13.27 | 12.99 | |
| 2143 | 7/14/05 17:00 | 13.33 | 14.62 | 13.33 | 13.27 | 12.83 | |
| 2144 | 7/14/05 17:15 | 13.33 | 14.62 | 13.33 | 13.42 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2145 | 7/14/05 17:30 | 13.33 | 14.78 | 13.33 | 13.42 | 12.99 | |
| 2146 | 7/14/05 17:45 | 13.17 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2147 | 7/14/05 18:00 | 13.17 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2148 | 7/14/05 18:15 | 13.33 | 14.93 | 13.33 | 13.42 | 12.99 | |
| 2149 | 7/14/05 18:30 | 13.33 | 14.93 | 13.33 | 13.57 | 12.99 | |
| 2150 | 7/14/05 18:45 | 13.17 | 14.78 | 13.33 | 13.73 | 12.99 | |
| 2151 | 7/14/05 19:00 | 13.17 | 14.78 | 13.33 | 13.73 | 12.83 | |
| 2152 | 7/14/05 19:15 | 13.17 | 14.78 | 13.33 | 13.57 | 12.99 | |
| 2153 | 7/14/05 19:30 | 13.17 | 14.78 | 13.48 | 13.57 | 12.99 | |
| 2154 | 7/14/05 19:45 | 13.02 | 14.78 | 13.48 | 13.57 | 12.99 | |
| 2155 | 7/14/05 20:00 | 13.02 | 14.78 | 13.48 | 13.57 | 12.83 | |
| 2156 | 7/14/05 20:15 | 13.02 | 14.78 | 13.48 | 13.42 | 12.83 | |
| 2157 | 7/14/05 20:30 | 13.02 | 14.78 | 13.48 | 13.42 | 12.99 | |
| 2158 | 7/14/05 20:45 | 13.02 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2159 | 7/14/05 21:00 | 13.02 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2160 | 7/14/05 21:15 | 13.17 | 14.62 | 13.48 | 13.42 | 12.99 | |
| 2161 | 7/14/05 21:30 | 13.17 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2162 | 7/14/05 21:45 | 13.48 | 14.62 | 13.48 | 13.42 | 12.99 | |
| 2163 | 7/14/05 22:00 | 13.33 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2164 | 7/14/05 22:15 | 13.33 | 14.62 | 13.33 | 13.42 | 12.99 | |
| 2165 | 7/14/05 22:30 | 13.33 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2166 | 7/14/05 22:45 | 13.17 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2167 | 7/14/05 23:00 | 13.17 | 14.62 | 13.17 | 13.57 | 12.99 | |
| 2168 | 7/14/05 23:15 | 13.02 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2169 | 7/14/05 23:30 | 13.02 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2170 | 7/14/05 23:45 | 13.17 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2171 | 7/15/05 0:00 | 13.17 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2172 | 7/15/05 0:15 | 13.17 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2173 | 7/15/05 0:30 | 13.02 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2174 | 7/15/05 0:45 | 13.02 | 14.62 | 13.33 | 13.57 | 12.99 | |
| 2175 | 7/15/05 1:00 | 13.02 | 14.62 | 13.33 | 13.73 | 12.99 | |
| 2176 | 7/15/05 1:15 | 12.87 | 14.62 | 13.33 | 13.73 | 13.14 | |
| 2177 | 7/15/05 1:30 | 12.87 | 14.62 | 13.33 | 13.57 | 13.14 | |
| 2178 | 7/15/05 1:45 | 12.87 | 14.62 | 13.48 | 13.57 | 13.14 | |
| 2179 | 7/15/05 2:00 | 12.87 | 14.62 | 13.48 | 13.42 | 13.3 | |
| 2180 | 7/15/05 2:15 | 12.87 | 14.62 | 13.48 | 13.42 | 13.3 | |
| 2181 | 7/15/05 2:30 | 12.87 | 14.62 | 13.48 | 13.57 | 13.3 | |
| 2182 | 7/15/05 2:45 | 13.02 | 14.62 | 13.63 | 13.73 | 13.3 | |
| 2183 | 7/15/05 3:00 | 13.02 | 14.78 | 13.63 | 13.73 | 13.14 | |
| 2184 | 7/15/05 3:15 | 13.02 | 14.62 | 13.48 | 13.73 | 13.14 | |
| 2185 | 7/15/05 3:30 | 13.02 | 14.78 | 13.63 | 13.73 | 13.14 | |
| 2186 | 7/15/05 3:45 | 13.02 | 14.78 | 13.63 | 13.73 | 13.14 | |
| 2187 | 7/15/05 4:00 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2188 | 7/15/05 4:15 | 13.02 | 14.62 | 13.63 | 13.73 | 13.3 | |
| 2189 | 7/15/05 4:30 | 13.02 | 14.62 | 13.48 | 13.73 | 13.3 | |
| 2190 | 7/15/05 4:45 | 13.02 | 14.62 | 13.48 | 13.88 | 13.3 | |
| 2191 | 7/15/05 5:00 | 13.02 | 14.62 | 13.48 | 13.73 | 13.46 | |
| 2192 | 7/15/05 5:15 | 13.02 | 14.62 | 13.48 | 13.73 | 13.61 | |
| 2193 | 7/15/05 5:30 | 13.02 | 14.62 | 13.48 | 13.73 | 13.61 | |
| 2194 | 7/15/05 5:45 | 13.17 | 14.62 | 13.48 | 13.73 | 13.46 | |
| 2195 | 7/15/05 6:00 | 13.17 | 14.62 | 13.48 | 13.88 | 13.61 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2196 | 7/15/05 6:15 | 13.33 | 14.62 | 13.48 | 13.88 | 13.3 | |
| 2197 | 7/15/05 6:30 | 13.17 | 14.62 | 13.48 | 13.88 | 13.14 | |
| 2198 | 7/15/05 6:45 | 13.17 | 14.78 | 13.63 | 14.04 | 12.99 | |
| 2199 | 7/15/05 7:00 | 13.17 | 14.62 | 13.63 | 14.04 | 12.99 | |
| 2200 | 7/15/05 7:15 | 13.33 | 14.62 | 13.63 | 14.04 | 12.99 | |
| 2201 | 7/15/05 7:30 | 13.17 | 14.62 | 13.79 | 13.73 | 12.99 | |
| 2202 | 7/15/05 7:45 | 13.33 | 14.93 | 13.94 | 13.57 | 12.99 | |
| 2203 | 7/15/05 8:00 | 13.33 | 14.93 | 13.94 | 13.57 | 12.99 | |
| 2204 | 7/15/05 8:15 | 13.17 | 14.78 | 13.94 | 13.73 | 12.99 | |
| 2205 | 7/15/05 8:30 | 13.17 | 14.78 | 13.79 | 13.73 | 12.99 | |
| 2206 | 7/15/05 8:45 | 13.17 | 14.78 | 13.79 | 13.73 | 12.99 | |
| 2207 | 7/15/05 9:00 | 13.17 | 14.78 | 13.79 | 13.88 | 12.99 | |
| 2208 | 7/15/05 9:15 | 13.17 | 14.78 | 13.79 | 13.88 | 12.99 | |
| 2209 | 7/15/05 9:30 | 13.17 | 14.78 | 13.79 | 13.88 | 12.99 | |
| 2210 | 7/15/05 9:45 | 13.48 | 14.78 | 13.79 | 13.88 | 13.14 | |
| 2211 | 7/15/05 10:00 | 13.63 | 14.78 | 13.63 | 13.73 | 12.99 | |
| 2212 | 7/15/05 10:15 | 13.79 | 14.78 | 13.63 | 13.73 | 12.99 | |
| 2213 | 7/15/05 10:30 | 14.1 | 14.78 | 13.48 | 13.73 | 12.99 | |
| 2214 | 7/15/05 10:45 | 14.1 | 14.78 | 13.48 | 13.73 | 13.14 | |
| 2215 | 7/15/05 11:00 | 13.94 | 14.78 | 13.48 | 13.57 | 13.14 | |
| 2216 | 7/15/05 11:15 | 13.94 | 14.78 | 13.48 | 13.73 | 13.14 | |
| 2217 | 7/15/05 11:30 | 13.48 | 14.62 | 13.48 | 13.73 | 13.14 | |
| 2218 | 7/15/05 11:45 | 13.48 | 14.62 | 13.48 | 13.73 | 13.3 | |
| 2219 | 7/15/05 12:00 | 13.33 | 14.62 | 13.33 | 13.73 | 13.14 | |
| 2220 | 7/15/05 12:15 | 13.33 | 14.62 | 13.48 | 13.57 | 13.14 | |
| 2221 | 7/15/05 12:30 | 13.33 | 14.62 | 13.48 | 13.57 | 13.14 | |
| 2222 | 7/15/05 12:45 | 13.17 | 14.62 | 13.48 | 13.73 | 13.14 | |
| 2223 | 7/15/05 13:00 | 13.33 | 14.62 | 13.48 | 13.73 | 13.14 | |
| 2224 | 7/15/05 13:15 | 13.33 | 14.62 | 13.48 | 13.42 | 13.3 | |
| 2225 | 7/15/05 13:30 | 13.33 | 14.62 | 13.48 | 13.42 | 13.14 | |
| 2226 | 7/15/05 13:45 | 13.48 | 14.62 | 13.48 | 13.73 | 13.3 | |
| 2227 | 7/15/05 14:00 | 13.33 | 14.62 | 13.48 | 13.88 | 13.46 | |
| 2228 | 7/15/05 14:15 | 13.33 | 14.62 | 13.48 | 13.88 | 13.46 | |
| 2229 | 7/15/05 14:30 | 13.33 | 14.62 | 13.48 | 13.88 | 13.46 | |
| 2230 | 7/15/05 14:45 | 13.33 | 14.62 | 13.48 | 13.73 | 13.3 | |
| 2231 | 7/15/05 15:00 | 13.33 | 14.62 | 13.48 | 13.88 | 13.3 | |
| 2232 | 7/15/05 15:15 | 13.17 | 14.78 | 13.48 | 13.88 | 13.46 | |
| 2233 | 7/15/05 15:30 | 13.17 | 14.78 | 13.48 | 13.88 | 13.46 | |
| 2234 | 7/15/05 15:45 | 13.17 | 14.78 | 13.48 | 13.88 | 13.46 | |
| 2235 | 7/15/05 16:00 | 13.17 | 14.78 | 13.48 | 14.04 | 13.3 | |
| 2236 | 7/15/05 16:15 | 13.17 | 14.78 | 13.48 | 13.88 | 13.3 | |
| 2237 | 7/15/05 16:30 | 13.17 | 14.78 | 13.48 | 14.04 | 13.46 | |
| 2238 | 7/15/05 16:45 | 13.17 | 14.78 | 13.48 | 14.04 | 13.3 | |
| 2239 | 7/15/05 17:00 | 13.17 | 14.78 | 13.48 | 14.04 | 13.14 | |
| 2240 | 7/15/05 17:15 | 13.02 | 14.78 | 13.48 | 14.04 | 13.3 | |
| 2241 | 7/15/05 17:30 | 13.02 | 14.78 | 13.63 | 14.04 | 13.14 | |
| 2242 | 7/15/05 17:45 | 13.02 | 14.78 | 13.63 | 14.04 | 13.14 | |
| 2243 | 7/15/05 18:00 | 13.02 | 14.78 | 13.63 | 14.04 | 13.14 | |
| 2244 | 7/15/05 18:15 | 13.17 | 14.78 | 13.63 | 14.19 | 13.14 | |
| 2245 | 7/15/05 18:30 | 13.17 | 14.78 | 13.63 | 14.19 | 13.14 | |
| 2246 | 7/15/05 18:45 | 13.17 | 14.78 | 13.63 | 14.19 | 13.14 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2247 | 7/15/05 19:00 | 13.33 | 14.78 | 13.63 | 14.19 | 13.14 | |
| 2248 | 7/15/05 19:15 | 13.33 | 14.78 | 13.63 | 14.19 | 13.14 | |
| 2249 | 7/15/05 19:30 | 13.17 | 14.78 | 13.63 | 14.04 | 13.14 | |
| 2250 | 7/15/05 19:45 | 13.17 | 14.78 | 13.63 | 14.04 | 13.14 | |
| 2251 | 7/15/05 20:00 | 13.33 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2252 | 7/15/05 20:15 | 13.33 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2253 | 7/15/05 20:30 | 13.33 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2254 | 7/15/05 20:45 | 13.48 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2255 | 7/15/05 21:00 | 13.33 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2256 | 7/15/05 21:15 | 13.33 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2257 | 7/15/05 21:30 | 13.33 | 14.78 | 13.63 | 13.73 | 13.14 | |
| 2258 | 7/15/05 21:45 | 13.33 | 14.78 | 13.79 | 13.73 | 13.14 | |
| 2259 | 7/15/05 22:00 | 13.33 | 14.78 | 13.79 | 13.73 | 12.99 | |
| 2260 | 7/15/05 22:15 | 13.33 | 14.78 | 13.79 | 13.73 | 12.99 | |
| 2261 | 7/15/05 22:30 | 13.33 | 14.78 | 13.79 | 13.73 | 13.14 | |
| 2262 | 7/15/05 22:45 | 13.33 | 14.78 | 13.79 | 13.73 | 13.14 | |
| 2263 | 7/15/05 23:00 | 13.17 | 14.78 | 13.79 | 13.73 | 13.14 | |
| 2264 | 7/15/05 23:15 | 13.17 | 14.78 | 13.79 | 13.73 | 13.14 | |
| 2265 | 7/15/05 23:30 | 13.02 | 14.78 | 13.63 | 13.73 | 13.14 | |
| 2266 | 7/15/05 23:45 | 13.02 | 14.78 | 13.63 | 13.57 | 13.3 | |
| 2267 | 7/16/05 0:00 | 13.02 | 14.78 | 13.63 | 13.57 | 13.3 | |
| 2268 | 7/16/05 0:15 | 13.02 | 14.78 | 13.48 | 13.57 | 13.3 | |
| 2269 | 7/16/05 0:30 | 13.02 | 14.78 | 13.63 | 13.57 | 13.3 | |
| 2270 | 7/16/05 0:45 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2271 | 7/16/05 1:00 | 13.17 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2272 | 7/16/05 1:15 | 13.17 | 14.78 | 13.63 | 13.73 | 13.46 | |
| 2273 | 7/16/05 1:30 | 13.02 | 14.78 | 13.63 | 13.73 | 13.46 | |
| 2274 | 7/16/05 1:45 | 13.02 | 14.78 | 13.63 | 13.73 | 13.46 | |
| 2275 | 7/16/05 2:00 | 13.02 | 14.78 | 13.63 | 13.73 | 13.46 | |
| 2276 | 7/16/05 2:15 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2277 | 7/16/05 2:30 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2278 | 7/16/05 2:45 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2279 | 7/16/05 3:00 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2280 | 7/16/05 3:15 | 13.02 | 14.93 | 13.63 | 13.73 | 13.3 | |
| 2281 | 7/16/05 3:30 | 13.02 | 14.78 | 13.63 | 13.73 | 13.3 | |
| 2282 | 7/16/05 3:45 | 13.02 | 14.93 | 13.63 | 13.73 | 13.3 | |
| 2283 | 7/16/05 4:00 | 13.02 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2284 | 7/16/05 4:15 | 13.02 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2285 | 7/16/05 4:30 | 12.87 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2286 | 7/16/05 4:45 | 12.87 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2287 | 7/16/05 5:00 | 12.87 | 14.93 | 13.48 | 13.88 | 13.3 | |
| 2288 | 7/16/05 5:15 | 12.87 | 14.78 | 13.63 | 13.88 | 13.3 | |
| 2289 | 7/16/05 5:30 | 12.87 | 14.78 | 13.63 | 13.88 | 13.3 | |
| 2290 | 7/16/05 5:45 | 12.87 | 14.78 | 13.63 | 14.04 | 13.3 | |
| 2291 | 7/16/05 6:00 | 12.87 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2292 | 7/16/05 6:15 | 12.87 | 14.78 | 13.79 | 14.04 | 13.3 | |
| 2293 | 7/16/05 6:30 | 13.02 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2294 | 7/16/05 6:45 | 13.02 | 14.78 | 13.79 | 14.04 | 13.14 | |
| 2295 | 7/16/05 7:00 | 13.02 | 14.78 | 13.94 | 14.04 | 13.14 | |
| 2296 | 7/16/05 7:15 | 13.02 | 14.78 | 13.94 | 14.04 | 13.14 | |
| 2297 | 7/16/05 7:30 | 13.17 | 14.78 | 13.94 | 14.04 | 13.14 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2298 | 7/16/05 7:45 | 13.17 | 14.78 | 13.94 | 14.04 | 13.14 | |
| 2299 | 7/16/05 8:00 | 13.17 | 14.78 | 13.94 | 13.88 | 13.14 | |
| 2300 | 7/16/05 8:15 | 13.17 | 14.78 | 13.94 | 13.88 | 12.99 | |
| 2301 | 7/16/05 8:30 | 13.48 | 14.78 | 13.79 | 13.88 | 13.14 | |
| 2302 | 7/16/05 8:45 | 13.48 | 14.93 | 13.94 | 13.88 | 13.14 | |
| 2303 | 7/16/05 9:00 | 13.48 | 14.93 | 13.94 | 13.88 | 13.14 | |
| 2304 | 7/16/05 9:15 | 13.33 | 14.78 | 13.94 | 13.88 | 13.14 | |
| 2305 | 7/16/05 9:30 | 13.33 | 14.78 | 14.1 | 13.88 | 13.14 | |
| 2306 | 7/16/05 9:45 | 13.33 | 14.78 | 14.1 | 13.88 | 13.14 | |
| 2307 | 7/16/05 10:00 | 13.33 | 14.78 | 14.1 | 13.73 | 13.14 | |
| 2308 | 7/16/05 10:15 | 13.33 | 14.78 | 13.94 | 13.73 | 13.14 | |
| 2309 | 7/16/05 10:30 | 14.1 | 14.78 | 13.94 | 13.57 | 13.14 | |
| 2310 | 7/16/05 10:45 | 14.26 | 14.78 | 13.94 | 13.57 | 13.14 | |
| 2311 | 7/16/05 11:00 | 14.26 | 14.78 | 13.94 | 13.57 | 13.14 | |
| 2312 | 7/16/05 11:15 | 14.1 | 14.78 | 13.79 | 13.42 | 13.14 | |
| 2313 | 7/16/05 11:30 | 14.1 | 14.78 | 13.79 | 13.42 | 13.14 | |
| 2314 | 7/16/05 11:45 | 13.94 | 14.78 | 13.79 | 13.57 | 13.14 | |
| 2315 | 7/16/05 12:00 | 13.79 | 14.78 | 13.63 | 13.57 | 13.3 | |
| 2316 | 7/16/05 12:15 | 13.48 | 14.78 | 13.48 | 13.57 | 13.3 | |
| 2317 | 7/16/05 12:30 | 13.17 | 14.78 | 13.33 | 13.57 | 13.14 | |
| 2318 | 7/16/05 12:45 | 13.02 | 14.78 | 13.33 | 13.73 | 13.14 | |
| 2319 | 7/16/05 13:00 | 13.17 | 14.78 | 13.33 | 13.42 | 13.14 | |
| 2320 | 7/16/05 13:15 | 13.17 | 14.78 | 13.33 | 13.57 | 13.3 | |
| 2321 | 7/16/05 13:30 | 13.17 | 14.93 | 13.33 | 13.57 | 13.14 | |
| 2322 | 7/16/05 13:45 | 13.17 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2323 | 7/16/05 14:00 | 13.33 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2324 | 7/16/05 14:15 | 13.33 | 14.78 | 13.33 | 13.57 | 13.3 | |
| 2325 | 7/16/05 14:30 | 13.33 | 14.93 | 13.33 | 13.57 | 13.46 | |
| 2326 | 7/16/05 14:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.46 | |
| 2327 | 7/16/05 15:00 | 13.33 | 15.09 | 13.33 | 13.73 | 13.46 | |
| 2328 | 7/16/05 15:15 | 13.33 | 14.93 | 13.33 | 13.73 | 13.61 | |
| 2329 | 7/16/05 15:30 | 13.33 | 14.93 | 13.33 | 13.73 | 13.46 | |
| 2330 | 7/16/05 15:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2331 | 7/16/05 16:00 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2332 | 7/16/05 16:15 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2333 | 7/16/05 16:30 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2334 | 7/16/05 16:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2335 | 7/16/05 17:00 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2336 | 7/16/05 17:15 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2337 | 7/16/05 17:30 | 13.33 | 14.93 | 13.33 | 13.73 | 13.3 | |
| 2338 | 7/16/05 17:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2339 | 7/16/05 18:00 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2340 | 7/16/05 18:15 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2341 | 7/16/05 18:30 | 13.33 | 14.93 | 13.33 | 13.88 | 13.14 | |
| 2342 | 7/16/05 18:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2343 | 7/16/05 19:00 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2344 | 7/16/05 19:15 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2345 | 7/16/05 19:30 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2346 | 7/16/05 19:45 | 13.33 | 14.93 | 13.33 | 13.73 | 13.14 | |
| 2347 | 7/16/05 20:00 | 13.48 | 14.93 | 13.33 | 13.88 | 12.99 | |
| 2348 | 7/16/05 20:15 | 13.48 | 14.93 | 13.33 | 13.88 | 12.99 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2349 | 7/16/05 20:30 | 13.48 | 14.93 | 13.48 | 13.88 | 12.99 | |
| 2350 | 7/16/05 20:45 | 13.48 | 14.93 | 13.48 | 13.88 | 13.14 | |
| 2351 | 7/16/05 21:00 | 13.48 | 14.93 | 13.48 | 13.88 | 13.14 | |
| 2352 | 7/16/05 21:15 | 13.63 | 14.93 | 13.48 | 13.88 | 13.14 | |
| 2353 | 7/16/05 21:30 | 13.48 | 14.93 | 13.48 | 13.88 | 13.14 | |
| 2354 | 7/16/05 21:45 | 13.48 | 14.93 | 13.48 | 13.73 | 13.14 | |
| 2355 | 7/16/05 22:00 | 13.33 | 14.93 | 13.48 | 13.73 | 13.14 | |
| 2356 | 7/16/05 22:15 | 13.33 | 14.93 | 13.63 | 13.57 | 13.14 | |
| 2357 | 7/16/05 22:30 | 13.33 | 14.78 | 13.63 | 13.42 | 13.3 | |
| 2358 | 7/16/05 22:45 | 13.33 | 14.93 | 13.79 | 13.42 | 13.3 | |
| 2359 | 7/16/05 23:00 | 13.33 | 14.93 | 13.79 | 13.42 | 13.3 | |
| 2360 | 7/16/05 23:15 | 13.33 | 14.93 | 13.79 | 13.27 | 13.3 | |
| 2361 | 7/16/05 23:30 | 13.33 | 14.93 | 13.79 | 13.27 | 13.3 | |
| 2362 | 7/16/05 23:45 | 13.17 | 14.93 | 13.79 | 13.42 | 13.3 | |
| 2363 | 7/17/05 0:00 | 13.17 | 14.93 | 13.63 | 13.42 | 13.3 | |
| 2364 | 7/17/05 0:15 | 13.17 | 14.93 | 13.48 | 13.42 | 13.3 | |
| 2365 | 7/17/05 0:30 | 13.17 | 14.78 | 13.63 | 13.42 | 13.3 | |
| 2366 | 7/17/05 0:45 | 13.17 | 14.93 | 13.48 | 13.42 | 13.3 | |
| 2367 | 7/17/05 1:00 | 13.17 | 14.93 | 13.63 | 13.27 | 13.3 | |
| 2368 | 7/17/05 1:15 | 13.17 | 14.93 | 13.63 | 13.27 | 13.3 | |
| 2369 | 7/17/05 1:30 | 13.17 | 14.93 | 13.63 | 13.27 | 13.3 | |
| 2370 | 7/17/05 1:45 | 13.17 | 14.93 | 13.63 | 13.42 | 13.3 | |
| 2371 | 7/17/05 2:00 | 13.17 | 14.93 | 13.63 | 13.42 | 13.3 | |
| 2372 | 7/17/05 2:15 | 13.17 | 14.93 | 13.48 | 13.27 | 13.3 | |
| 2373 | 7/17/05 2:30 | 13.17 | 14.93 | 13.48 | 13.27 | 13.3 | |
| 2374 | 7/17/05 2:45 | 13.17 | 14.93 | 13.48 | 13.27 | 13.3 | |
| 2375 | 7/17/05 3:00 | 13.17 | 14.93 | 13.48 | 13.42 | 13.3 | |
| 2376 | 7/17/05 3:15 | 13.17 | 14.93 | 13.48 | 13.42 | 13.3 | |
| 2377 | 7/17/05 3:30 | 13.17 | 14.93 | 13.48 | 13.42 | 13.3 | |
| 2378 | 7/17/05 3:45 | 13.17 | 14.78 | 13.48 | 13.57 | 13.3 | |
| 2379 | 7/17/05 4:00 | 13.17 | 14.78 | 13.33 | 13.57 | 13.3 | |
| 2380 | 7/17/05 4:15 | 13.17 | 14.78 | 13.48 | 13.57 | 13.3 | |
| 2381 | 7/17/05 4:30 | 13.17 | 14.93 | 13.33 | 13.42 | 13.14 | |
| 2382 | 7/17/05 4:45 | 13.17 | 14.78 | 13.33 | 13.42 | 13.3 | |
| 2383 | 7/17/05 5:00 | 13.17 | 14.78 | 13.33 | 13.42 | 13.3 | |
| 2384 | 7/17/05 5:15 | 13.17 | 14.93 | 13.33 | 13.57 | 13.3 | |
| 2385 | 7/17/05 5:30 | 13.02 | 14.93 | 13.33 | 13.57 | 13.3 | |
| 2386 | 7/17/05 5:45 | 13.02 | 14.93 | 13.33 | 13.57 | 13.3 | |
| 2387 | 7/17/05 6:00 | 13.02 | 14.93 | 13.33 | 13.57 | 13.3 | |
| 2388 | 7/17/05 6:15 | 13.02 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2389 | 7/17/05 6:30 | 13.02 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2390 | 7/17/05 6:45 | 13.02 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2391 | 7/17/05 7:00 | 13.02 | 14.93 | 13.63 | 13.73 | 13.3 | |
| 2392 | 7/17/05 7:15 | 13.02 | 15.09 | 13.63 | 13.73 | 13.3 | |
| 2393 | 7/17/05 7:30 | 13.17 | 15.09 | 13.63 | 13.73 | 13.3 | |
| 2394 | 7/17/05 7:45 | 13.17 | 15.09 | 13.79 | 13.73 | 13.3 | |
| 2395 | 7/17/05 8:00 | 13.33 | 15.09 | 13.79 | 13.88 | 13.3 | |
| 2396 | 7/17/05 8:15 | 13.33 | 14.93 | 13.79 | 13.88 | 13.3 | |
| 2397 | 7/17/05 8:30 | 13.33 | 14.93 | 13.94 | 13.88 | 13.3 | |
| 2398 | 7/17/05 8:45 | 13.48 | 14.93 | 13.94 | 13.88 | 13.3 | |
| 2399 | 7/17/05 9:00 | 13.63 | 14.93 | 13.94 | 13.88 | 13.3 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2400 | 7/17/05 9:15 | 13.63 | 14.93 | 13.94 | 13.88 | 13.14 | |
| 2401 | 7/17/05 9:30 | 13.63 | 14.93 | 13.94 | 13.88 | 13.14 | |
| 2402 | 7/17/05 9:45 | 13.48 | 14.93 | 13.94 | 13.73 | 13.14 | |
| 2403 | 7/17/05 10:00 | 13.48 | 14.93 | 13.94 | 13.73 | 13.14 | |
| 2404 | 7/17/05 10:15 | 13.48 | 14.93 | 13.94 | 13.73 | 13.14 | |
| 2405 | 7/17/05 10:30 | 13.48 | 14.78 | 13.94 | 13.73 | 13.14 | |
| 2406 | 7/17/05 10:45 | 13.63 | 14.78 | 13.94 | 13.73 | 13.14 | |
| 2407 | 7/17/05 11:00 | 14.88 | 14.78 | 13.79 | 13.57 | 13.3 | |
| 2408 | 7/17/05 11:15 | 14.72 | 14.78 | 13.79 | 13.57 | 13.3 | |
| 2409 | 7/17/05 11:30 | 14.72 | 14.78 | 13.63 | 13.57 | 13.3 | |
| 2410 | 7/17/05 11:45 | 14.57 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2411 | 7/17/05 12:00 | 14.57 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2412 | 7/17/05 12:15 | 14.41 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2413 | 7/17/05 12:30 | 14.41 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2414 | 7/17/05 12:45 | 14.1 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2415 | 7/17/05 13:00 | 13.94 | 14.78 | 13.48 | 13.27 | 13.3 | |
| 2416 | 7/17/05 13:15 | 13.94 | 14.78 | 13.48 | 13.27 | 13.3 | |
| 2417 | 7/17/05 13:30 | 13.94 | 14.78 | 13.48 | 13.42 | 13.3 | |
| 2418 | 7/17/05 13:45 | 13.94 | 14.78 | 13.48 | 13.57 | 13.3 | |
| 2419 | 7/17/05 14:00 | 13.79 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2420 | 7/17/05 14:15 | 13.79 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2421 | 7/17/05 14:30 | 13.79 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2422 | 7/17/05 14:45 | 13.63 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2423 | 7/17/05 15:00 | 13.63 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2424 | 7/17/05 15:15 | 13.63 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2425 | 7/17/05 15:30 | 13.63 | 15.09 | 13.48 | 13.27 | 13.3 | |
| 2426 | 7/17/05 15:45 | 13.63 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2427 | 7/17/05 16:00 | 13.63 | 15.09 | 13.33 | 13.42 | 13.46 | |
| 2428 | 7/17/05 16:15 | 13.63 | 15.09 | 13.33 | 13.57 | 13.3 | |
| 2429 | 7/17/05 16:30 | 13.63 | 15.09 | 13.33 | 13.57 | 13.3 | |
| 2430 | 7/17/05 16:45 | 13.48 | 15.09 | 13.33 | 13.73 | 13.3 | |
| 2431 | 7/17/05 17:00 | 13.48 | 15.09 | 13.33 | 13.73 | 13.3 | |
| 2432 | 7/17/05 17:15 | 13.48 | 15.09 | 13.33 | 13.73 | 13.3 | |
| 2433 | 7/17/05 17:30 | 13.48 | 15.09 | 13.33 | 13.73 | 13.3 | |
| 2434 | 7/17/05 17:45 | 13.48 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2435 | 7/17/05 18:00 | 13.48 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2436 | 7/17/05 18:15 | 13.48 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2437 | 7/17/05 18:30 | 13.48 | 14.93 | 13.48 | 13.73 | 13.3 | |
| 2438 | 7/17/05 18:45 | 13.48 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2439 | 7/17/05 19:00 | 13.48 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2440 | 7/17/05 19:15 | 13.48 | 15.09 | 13.48 | 13.88 | 13.3 | |
| 2441 | 7/17/05 19:30 | 13.63 | 15.09 | 13.63 | 13.73 | 13.14 | |
| 2442 | 7/17/05 19:45 | 13.79 | 15.09 | 13.63 | 13.73 | 13.14 | |
| 2443 | 7/17/05 20:00 | 13.79 | 15.09 | 13.63 | 13.57 | 13.14 | |
| 2444 | 7/17/05 20:15 | 13.79 | 15.09 | 13.63 | 13.73 | 13.14 | |
| 2445 | 7/17/05 20:30 | 13.79 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2446 | 7/17/05 20:45 | 13.79 | 15.09 | 13.79 | 13.88 | 13.14 | |
| 2447 | 7/17/05 21:00 | 13.79 | 15.09 | 13.79 | 13.88 | 13.14 | |
| 2448 | 7/17/05 21:15 | 13.94 | 15.09 | 13.79 | 13.88 | 13.14 | |
| 2449 | 7/17/05 21:30 | 13.79 | 15.09 | 13.79 | 13.88 | 13.14 | |
| 2450 | 7/17/05 21:45 | 13.63 | 15.09 | 13.79 | 13.73 | 13.14 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2451 | 7/17/05 22:00 | 13.48 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2452 | 7/17/05 22:15 | 13.48 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2453 | 7/17/05 22:30 | 13.48 | 15.09 | 13.79 | 13.73 | 13.3 | |
| 2454 | 7/17/05 22:45 | 13.48 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2455 | 7/17/05 23:00 | 13.33 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2456 | 7/17/05 23:15 | 13.33 | 15.09 | 13.79 | 13.73 | 13.14 | |
| 2457 | 7/17/05 23:30 | 13.33 | 15.09 | 13.94 | 13.57 | 13.3 | |
| 2458 | 7/17/05 23:45 | 13.33 | 15.09 | 13.94 | 13.57 | 13.3 | |
| 2459 | 7/18/05 0:00 | 13.33 | 15.26 | 13.79 | 13.57 | 13.3 | |
| 2460 | 7/18/05 0:15 | 13.33 | 15.26 | 13.79 | 13.57 | 13.3 | |
| 2461 | 7/18/05 0:30 | 13.33 | 15.09 | 13.79 | 13.57 | 13.3 | |
| 2462 | 7/18/05 0:45 | 13.33 | 15.09 | 13.63 | 13.57 | 13.3 | |
| 2463 | 7/18/05 1:00 | 13.48 | 15.09 | 13.63 | 13.42 | 13.3 | |
| 2464 | 7/18/05 1:15 | 13.48 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2465 | 7/18/05 1:30 | 13.48 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2466 | 7/18/05 1:45 | 13.33 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2467 | 7/18/05 2:00 | 13.33 | 15.09 | 13.48 | 13.27 | 13.46 | |
| 2468 | 7/18/05 2:15 | 13.33 | 15.09 | 13.48 | 13.27 | 13.46 | |
| 2469 | 7/18/05 2:30 | 13.33 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2470 | 7/18/05 2:45 | 13.33 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2471 | 7/18/05 3:00 | 13.17 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2472 | 7/18/05 3:15 | 13.17 | 15.09 | 13.48 | 13.42 | 13.46 | |
| 2473 | 7/18/05 3:30 | 13.17 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2474 | 7/18/05 3:45 | 13.17 | 15.09 | 13.48 | 13.42 | 13.3 | |
| 2475 | 7/18/05 4:00 | 13.17 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2476 | 7/18/05 4:15 | 13.17 | 15.09 | 13.48 | 13.57 | 13.46 | |
| 2477 | 7/18/05 4:30 | 13.17 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2478 | 7/18/05 4:45 | 13.17 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2479 | 7/18/05 5:00 | 13.17 | 15.09 | 13.48 | 13.57 | 13.3 | |
| 2480 | 7/18/05 5:15 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2481 | 7/18/05 5:30 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2482 | 7/18/05 5:45 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2483 | 7/18/05 6:00 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2484 | 7/18/05 6:15 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2485 | 7/18/05 6:30 | 13.17 | 15.09 | 13.48 | 13.73 | 13.3 | |
| 2486 | 7/18/05 6:45 | 13.17 | 15.09 | 13.48 | 13.88 | 13.3 | |
| 2487 | 7/18/05 7:00 | 13.17 | 15.09 | 13.48 | 13.88 | 13.3 | |
| 2488 | 7/18/05 7:15 | 13.17 | 15.09 | 13.48 | 13.88 | 13.46 | |
| 2489 | 7/18/05 7:30 | 13.17 | 15.26 | 13.48 | 13.88 | 13.46 | |
| 2490 | 7/18/05 7:45 | 13.33 | 15.26 | 13.48 | 13.88 | 13.3 | |
| 2491 | 7/18/05 8:00 | 13.48 | 15.09 | 13.63 | 13.88 | 13.46 | |
| 2492 | 7/18/05 8:15 | 13.48 | 15.09 | 13.63 | 13.88 | 13.3 | |
| 2493 | 7/18/05 8:30 | 13.48 | 14.93 | 13.63 | 13.88 | 13.46 | |
| 2494 | 7/18/05 8:45 | 13.48 | 14.93 | 13.63 | 13.88 | 13.46 | |
| 2495 | 7/18/05 9:00 | 13.48 | 15.09 | 13.79 | 14.04 | 13.46 | |
| 2496 | 7/18/05 9:15 | 13.63 | 15.09 | 13.79 | 13.88 | 13.46 | |
| 2497 | 7/18/05 9:30 | 13.63 | 15.09 | 13.79 | 13.88 | 13.46 | |
| 2498 | 7/18/05 9:45 | 13.63 | 14.93 | 13.79 | 13.88 | 13.46 | |
| 2499 | 7/18/05 10:00 | 13.79 | 14.93 | 13.94 | 13.88 | 13.46 | |
| 2500 | 7/18/05 10:15 | 13.63 | 14.93 | 13.94 | 13.88 | 13.46 | |
| 2501 | 7/18/05 10:30 | 13.63 | 14.93 | 13.94 | 13.88 | 13.46 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2502 | 7/18/05 10:45 | 13.48 | 14.93 | 13.79 | 13.88 | 13.3 | |
| 2503 | 7/18/05 11:00 | 13.48 | 14.93 | 13.79 | 13.73 | 13.46 | |
| 2504 | 7/18/05 11:15 | 13.48 | 14.93 | 13.79 | 13.73 | 13.46 | |
| 2505 | 7/18/05 11:30 | 14.72 | 14.93 | 13.79 | 13.73 | 13.46 | |
| 2506 | 7/18/05 11:45 | 14.72 | 14.93 | 13.79 | 13.73 | 13.61 | |
| 2507 | 7/18/05 12:00 | 14.88 | 14.93 | 13.79 | 13.73 | 13.61 | |
| 2508 | 7/18/05 12:15 | 14.88 | 14.93 | 13.79 | 13.57 | 13.46 | |
| 2509 | 7/18/05 12:30 | 14.88 | 14.93 | 13.79 | 13.57 | 13.3 | |
| 2510 | 7/18/05 12:45 | 14.72 | 14.93 | 13.94 | 13.57 | 13.46 | |
| 2511 | 7/18/05 13:00 | 14.41 | 14.93 | 13.79 | 13.57 | 13.46 | |
| 2512 | 7/18/05 13:15 | 14.41 | 14.93 | 13.63 | 13.57 | 13.46 | |
| 2513 | 7/18/05 13:30 | 14.26 | 14.93 | 13.63 | 13.73 | 13.46 | |
| 2514 | 7/18/05 13:45 | 14.26 | 14.93 | 13.48 | 13.57 | 13.46 | |
| 2515 | 7/18/05 14:00 | 14.1 | 14.93 | 13.79 | 13.73 | 13.3 | |
| 2516 | 7/18/05 14:15 | 14.1 | 14.93 | 13.94 | 13.73 | 13.46 | |
| 2517 | 7/18/05 14:30 | 13.94 | 14.93 | 13.63 | 13.73 | 13.46 | |
| 2518 | 7/18/05 14:45 | 13.94 | 14.93 | 13.63 | 13.88 | 13.46 | |
| 2519 | 7/18/05 15:00 | 13.94 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2520 | 7/18/05 15:15 | 13.79 | 14.93 | 13.63 | 14.04 | 13.46 | |
| 2521 | 7/18/05 15:30 | 13.79 | 14.93 | 13.63 | 13.88 | 13.46 | |
| 2522 | 7/18/05 15:45 | 13.79 | 14.93 | 13.63 | 13.88 | 13.3 | |
| 2523 | 7/18/05 16:00 | 13.79 | 14.93 | 13.48 | 13.73 | 13.46 | |
| 2524 | 7/18/05 16:15 | 13.79 | 15.09 | 13.63 | 13.88 | 13.46 | |
| 2525 | 7/18/05 16:30 | 13.79 | 15.09 | 13.63 | 13.88 | 13.46 | |
| 2526 | 7/18/05 16:45 | 13.79 | 15.09 | 13.63 | 14.04 | 13.46 | |
| 2527 | 7/18/05 17:00 | 13.79 | 15.09 | 13.63 | 14.04 | 13.61 | |
| 2528 | 7/18/05 17:15 | 13.79 | 15.26 | 13.63 | 14.19 | 13.46 | |
| 2529 | 7/18/05 17:30 | 13.79 | 15.09 | 13.63 | 14.19 | 13.46 | |
| 2530 | 7/18/05 17:45 | 13.79 | 15.09 | 13.63 | 14.04 | 13.46 | |
| 2531 | 7/18/05 18:00 | 13.79 | 15.09 | 13.63 | 14.04 | 13.3 | |
| 2532 | 7/18/05 18:15 | 13.63 | 15.09 | 13.63 | 14.04 | 13.46 | |
| 2533 | 7/18/05 18:30 | 13.63 | 15.09 | 13.63 | 13.88 | 13.46 | |
| 2534 | 7/18/05 18:45 | 13.63 | 15.26 | 13.48 | 14.04 | 13.61 | |
| 2535 | 7/18/05 19:00 | 13.63 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2536 | 7/18/05 19:15 | 13.79 | 15.26 | 13.48 | 14.19 | 13.61 | |
| 2537 | 7/18/05 19:30 | 13.79 | 15.26 | 13.48 | 14.19 | 13.46 | |
| 2538 | 7/18/05 19:45 | 13.79 | 15.41 | 13.48 | 14.19 | 13.46 | |
| 2539 | 7/18/05 20:00 | 13.79 | 15.41 | 13.48 | 14.19 | 13.3 | |
| 2540 | 7/18/05 20:15 | 13.79 | 15.41 | 13.63 | 14.19 | 13.46 | |
| 2541 | 7/18/05 20:30 | 13.79 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2542 | 7/18/05 20:45 | 13.63 | 15.09 | 13.63 | 14.04 | 13.61 | |
| 2543 | 7/18/05 21:00 | 13.63 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2544 | 7/18/05 21:15 | 13.63 | 15.09 | 13.63 | 14.19 | 13.61 | |
| 2545 | 7/18/05 21:30 | 13.63 | 15.09 | 13.63 | 14.19 | 13.61 | |
| 2546 | 7/18/05 21:45 | 13.79 | 15.09 | 13.63 | 14.19 | 13.61 | |
| 2547 | 7/18/05 22:00 | 13.94 | 15.09 | 13.63 | 14.35 | 13.61 | |
| 2548 | 7/18/05 22:15 | 13.79 | 15.09 | 13.63 | 14.35 | 13.61 | |
| 2549 | 7/18/05 22:30 | 13.79 | 15.26 | 13.79 | 14.35 | 13.61 | |
| 2550 | 7/18/05 22:45 | 13.63 | 15.26 | 13.79 | 14.04 | 13.61 | |
| 2551 | 7/18/05 23:00 | 13.79 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2552 | 7/18/05 23:15 | 13.79 | 15.41 | 13.79 | 13.88 | 13.61 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2553 | 7/18/05 23:30 | 13.63 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2554 | 7/18/05 23:45 | 13.63 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2555 | 7/19/05 0:00 | 13.63 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2556 | 7/19/05 0:15 | 13.48 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2557 | 7/19/05 0:30 | 13.48 | 15.41 | 13.79 | 13.88 | 13.46 | |
| 2558 | 7/19/05 0:45 | 13.48 | 15.41 | 13.79 | 13.88 | 13.46 | |
| 2559 | 7/19/05 1:00 | 13.48 | 15.41 | 13.94 | 13.88 | 13.46 | |
| 2560 | 7/19/05 1:15 | 13.48 | 15.41 | 14.1 | 13.73 | 13.46 | |
| 2561 | 7/19/05 1:30 | 13.48 | 15.41 | 14.26 | 13.73 | 13.46 | |
| 2562 | 7/19/05 1:45 | 13.48 | 15.41 | 14.41 | 13.73 | 13.46 | |
| 2563 | 7/19/05 2:00 | 13.48 | 15.41 | 14.26 | 13.73 | 13.46 | |
| 2564 | 7/19/05 2:15 | 13.48 | 15.41 | 13.94 | 13.88 | 13.46 | |
| 2565 | 7/19/05 2:30 | 13.48 | 15.41 | 13.94 | 13.88 | 13.46 | |
| 2566 | 7/19/05 2:45 | 13.48 | 15.41 | 13.94 | 13.88 | 13.46 | |
| 2567 | 7/19/05 3:00 | 13.48 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2568 | 7/19/05 3:15 | 13.63 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2569 | 7/19/05 3:30 | 13.63 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2570 | 7/19/05 3:45 | 13.48 | 15.26 | 13.63 | 13.88 | 13.61 | |
| 2571 | 7/19/05 4:00 | 13.63 | 15.26 | 13.63 | 13.88 | 13.61 | |
| 2572 | 7/19/05 4:15 | 13.63 | 15.26 | 13.63 | 13.88 | 13.61 | |
| 2573 | 7/19/05 4:30 | 13.48 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2574 | 7/19/05 4:45 | 13.48 | 15.41 | 13.63 | 13.88 | 13.76 | |
| 2575 | 7/19/05 5:00 | 13.33 | 15.41 | 13.63 | 14.04 | 13.76 | |
| 2576 | 7/19/05 5:15 | 13.33 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2577 | 7/19/05 5:30 | 13.33 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2578 | 7/19/05 5:45 | 13.33 | 15.41 | 13.48 | 14.04 | 13.61 | |
| 2579 | 7/19/05 6:00 | 13.33 | 15.41 | 13.48 | 13.88 | 13.61 | |
| 2580 | 7/19/05 6:15 | 13.17 | 15.41 | 13.48 | 14.04 | 13.61 | |
| 2581 | 7/19/05 6:30 | 13.17 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2582 | 7/19/05 6:45 | 13.17 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2583 | 7/19/05 7:00 | 13.17 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2584 | 7/19/05 7:15 | 13.17 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2585 | 7/19/05 7:30 | 13.17 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2586 | 7/19/05 7:45 | 13.33 | 15.57 | 13.63 | 13.88 | 13.76 | |
| 2587 | 7/19/05 8:00 | 13.33 | 15.41 | 13.63 | 13.88 | 13.76 | |
| 2588 | 7/19/05 8:15 | 13.48 | 15.41 | 13.63 | 13.88 | 13.76 | |
| 2589 | 7/19/05 8:30 | 13.33 | 15.41 | 13.63 | 14.04 | 13.76 | |
| 2590 | 7/19/05 8:45 | 13.33 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2591 | 7/19/05 9:00 | 13.33 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2592 | 7/19/05 9:15 | 13.33 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2593 | 7/19/05 9:30 | 13.33 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2594 | 7/19/05 9:45 | 13.63 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 2595 | 7/19/05 10:00 | 13.79 | 15.41 | 14.1 | 14.04 | 13.61 | |
| 2596 | 7/19/05 10:15 | 13.79 | 15.26 | 14.1 | 14.19 | 13.76 | |
| 2597 | 7/19/05 10:30 | 13.79 | 15.26 | 14.1 | 14.19 | 13.61 | |
| 2598 | 7/19/05 10:45 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2599 | 7/19/05 11:00 | 13.79 | 15.26 | 13.94 | 14.19 | 13.61 | |
| 2600 | 7/19/05 11:15 | 13.94 | 15.26 | 14.1 | 14.04 | 13.61 | |
| 2601 | 7/19/05 11:30 | 14.1 | 15.26 | 14.26 | 14.04 | 13.46 | |
| 2602 | 7/19/05 11:45 | 15.04 | 15.26 | 13.94 | 13.88 | 13.61 | |
| 2603 | 7/19/05 12:00 | 14.88 | 15.26 | 13.94 | 13.88 | 13.46 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2604 | 7/19/05 12:15 | 14.88 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2605 | 7/19/05 12:30 | 15.04 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2606 | 7/19/05 12:45 | 14.88 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2607 | 7/19/05 13:00 | 14.57 | 15.09 | 13.79 | 13.88 | 13.61 | |
| 2608 | 7/19/05 13:15 | 14.41 | 15.26 | 13.79 | 13.88 | 13.46 | |
| 2609 | 7/19/05 13:30 | 14.41 | 15.26 | 13.79 | 13.88 | 13.46 | |
| 2610 | 7/19/05 13:45 | 14.26 | 15.26 | 13.79 | 13.88 | 13.46 | |
| 2611 | 7/19/05 14:00 | 14.26 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2612 | 7/19/05 14:15 | 14.1 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2613 | 7/19/05 14:30 | 14.1 | 15.26 | 13.79 | 14.04 | 13.61 | |
| 2614 | 7/19/05 14:45 | 14.1 | 15.26 | 13.79 | 14.04 | 13.61 | |
| 2615 | 7/19/05 15:00 | 13.94 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2616 | 7/19/05 15:15 | 13.94 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2617 | 7/19/05 15:30 | 13.79 | 15.26 | 13.63 | 14.19 | 13.61 | |
| 2618 | 7/19/05 15:45 | 13.79 | 15.26 | 13.79 | 14.19 | 13.61 | |
| 2619 | 7/19/05 16:00 | 13.94 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2620 | 7/19/05 16:15 | 13.94 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2621 | 7/19/05 16:30 | 13.94 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2622 | 7/19/05 16:45 | 13.94 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2623 | 7/19/05 17:00 | 13.79 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2624 | 7/19/05 17:15 | 13.79 | 15.41 | 13.79 | 13.73 | 13.61 | |
| 2625 | 7/19/05 17:30 | 13.79 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2626 | 7/19/05 17:45 | 13.79 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2627 | 7/19/05 18:00 | 13.79 | 15.26 | 13.79 | 13.88 | 13.76 | |
| 2628 | 7/19/05 18:15 | 13.79 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2629 | 7/19/05 18:30 | 13.79 | 15.26 | 13.79 | 13.88 | 13.61 | |
| 2630 | 7/19/05 18:45 | 13.79 | 15.26 | 13.63 | 13.73 | 13.61 | |
| 2631 | 7/19/05 19:00 | 13.79 | 15.26 | 13.63 | 14.04 | 13.61 | |
| 2632 | 7/19/05 19:15 | 13.79 | 15.26 | 13.79 | 14.19 | 13.61 | |
| 2633 | 7/19/05 19:30 | 13.79 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2634 | 7/19/05 19:45 | 13.79 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2635 | 7/19/05 20:00 | 13.79 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2636 | 7/19/05 20:15 | 13.79 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2637 | 7/19/05 20:30 | 13.79 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2638 | 7/19/05 20:45 | 13.79 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2639 | 7/19/05 21:00 | 13.79 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2640 | 7/19/05 21:15 | 13.79 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2641 | 7/19/05 21:30 | 13.94 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2642 | 7/19/05 21:45 | 13.94 | 15.26 | 13.63 | 13.88 | 13.61 | |
| 2643 | 7/19/05 22:00 | 13.79 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2644 | 7/19/05 22:15 | 13.94 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2645 | 7/19/05 22:30 | 13.94 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2646 | 7/19/05 22:45 | 13.94 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2647 | 7/19/05 23:00 | 13.94 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2648 | 7/19/05 23:15 | 13.79 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2649 | 7/19/05 23:30 | 13.79 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2650 | 7/19/05 23:45 | 13.79 | 15.41 | 13.94 | 14.19 | 13.61 | |
| 2651 | 7/20/05 0:00 | 13.79 | 15.41 | 13.79 | 14.04 | 13.61 | |
| 2652 | 7/20/05 0:15 | 13.79 | 15.41 | 13.79 | 14.19 | 13.46 | |
| 2653 | 7/20/05 0:30 | 13.79 | 15.41 | 13.79 | 14.19 | 13.46 | |
| 2654 | 7/20/05 0:45 | 13.79 | 15.41 | 13.79 | 13.88 | 13.46 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2655 | 7/20/05 1:00 | 13.79 | 15.41 | 13.79 | 13.73 | 13.46 | |
| 2656 | 7/20/05 1:15 | 13.63 | 15.41 | 13.79 | 13.73 | 13.46 | |
| 2657 | 7/20/05 1:30 | 13.63 | 15.41 | 13.79 | 13.73 | 13.61 | |
| 2658 | 7/20/05 1:45 | 13.63 | 15.41 | 13.79 | 13.57 | 13.61 | |
| 2659 | 7/20/05 2:00 | 13.63 | 15.41 | 13.79 | 13.57 | 13.61 | |
| 2660 | 7/20/05 2:15 | 13.63 | 15.41 | 13.79 | 13.73 | 13.61 | |
| 2661 | 7/20/05 2:30 | 13.63 | 15.41 | 13.94 | 13.73 | 13.61 | |
| 2662 | 7/20/05 2:45 | 13.63 | 15.41 | 13.94 | 13.73 | 13.61 | |
| 2663 | 7/20/05 3:00 | 13.63 | 15.41 | 13.79 | 13.73 | 13.61 | |
| 2664 | 7/20/05 3:15 | 13.63 | 15.41 | 13.94 | 13.73 | 13.61 | |
| 2665 | 7/20/05 3:30 | 13.63 | 15.41 | 13.79 | 13.73 | 13.61 | |
| 2666 | 7/20/05 3:45 | 13.63 | 15.41 | 13.79 | 13.73 | 13.46 | |
| 2667 | 7/20/05 4:00 | 13.63 | 15.41 | 13.79 | 13.73 | 13.46 | |
| 2668 | 7/20/05 4:15 | 13.63 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2669 | 7/20/05 4:30 | 13.63 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2670 | 7/20/05 4:45 | 13.79 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2671 | 7/20/05 5:00 | 13.79 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2672 | 7/20/05 5:15 | 13.63 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2673 | 7/20/05 5:30 | 13.33 | 15.41 | 13.63 | 14.04 | 13.61 | |
| 2674 | 7/20/05 5:45 | 13.33 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2675 | 7/20/05 6:00 | 13.33 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2676 | 7/20/05 6:15 | 13.33 | 15.41 | 13.63 | 13.73 | 13.61 | |
| 2677 | 7/20/05 6:30 | 13.33 | 15.57 | 13.79 | 13.88 | 13.61 | |
| 2678 | 7/20/05 6:45 | 13.48 | 15.57 | 13.63 | 13.88 | 13.61 | |
| 2679 | 7/20/05 7:00 | 13.48 | 15.57 | 13.63 | 13.88 | 13.61 | |
| 2680 | 7/20/05 7:15 | 13.48 | 15.57 | 13.63 | 13.88 | 13.61 | |
| 2681 | 7/20/05 7:30 | 13.63 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2682 | 7/20/05 7:45 | 13.63 | 15.41 | 13.63 | 13.73 | 13.61 | |
| 2683 | 7/20/05 8:00 | 13.63 | 15.41 | 13.63 | 13.88 | 13.61 | |
| 2684 | 7/20/05 8:15 | 13.63 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2685 | 7/20/05 8:30 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2686 | 7/20/05 8:45 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2687 | 7/20/05 9:00 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2688 | 7/20/05 9:15 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2689 | 7/20/05 9:30 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2690 | 7/20/05 9:45 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2691 | 7/20/05 10:00 | 13.63 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2692 | 7/20/05 10:15 | 13.79 | 15.41 | 14.1 | 14.04 | 13.76 | |
| 2693 | 7/20/05 10:30 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2694 | 7/20/05 10:45 | 14.41 | 15.41 | 14.1 | 14.35 | 13.76 | |
| 2695 | 7/20/05 11:00 | 14.26 | 15.41 | 14.1 | 14.35 | 13.61 | |
| 2696 | 7/20/05 11:15 | 14.1 | 15.41 | 14.1 | 14.19 | 13.61 | |
| 2697 | 7/20/05 11:30 | 13.94 | 15.57 | 14.1 | 13.88 | 13.61 | |
| 2698 | 7/20/05 11:45 | 13.79 | 15.57 | 14.1 | 13.88 | 13.61 | |
| 2699 | 7/20/05 12:00 | 13.79 | 15.41 | 14.41 | 13.73 | 13.61 | |
| 2700 | 7/20/05 12:15 | 13.79 | 15.41 | 14.57 | 13.73 | 13.61 | |
| 2701 | 7/20/05 12:30 | 13.63 | 15.41 | 14.41 | 13.73 | 13.61 | |
| 2702 | 7/20/05 12:45 | 13.63 | 15.41 | 13.94 | 13.73 | 13.61 | |
| 2703 | 7/20/05 13:00 | 13.63 | 15.41 | 13.94 | 13.88 | 13.61 | |
| 2704 | 7/20/05 13:15 | 13.63 | 15.57 | 13.94 | 13.88 | 13.61 | |
| 2705 | 7/20/05 13:30 | 14.1 | 15.57 | 13.94 | 13.88 | 13.61 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2706 | 7/20/05 13:45 | 14.72 | 15.41 | 14.1 | 13.88 | 13.76 | |
| 2707 | 7/20/05 14:00 | 14.57 | 15.41 | 13.94 | 13.73 | 13.76 | |
| 2708 | 7/20/05 14:15 | 14.41 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2709 | 7/20/05 14:30 | 14.41 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2710 | 7/20/05 14:45 | 14.26 | 15.41 | 13.94 | 13.73 | 13.76 | |
| 2711 | 7/20/05 15:00 | 14.26 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2712 | 7/20/05 15:15 | 14.26 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2713 | 7/20/05 15:30 | 14.1 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2714 | 7/20/05 15:45 | 14.1 | 15.41 | 13.79 | 13.88 | 13.61 | |
| 2715 | 7/20/05 16:00 | 13.94 | 15.41 | 13.94 | 13.88 | 13.61 | |
| 2716 | 7/20/05 16:15 | 13.94 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2717 | 7/20/05 16:30 | 13.94 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2718 | 7/20/05 16:45 | 13.79 | 15.41 | 13.79 | 13.88 | 13.92 | |
| 2719 | 7/20/05 17:00 | 13.79 | 15.41 | 13.79 | 14.19 | 13.92 | |
| 2720 | 7/20/05 17:15 | 13.79 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2721 | 7/20/05 17:30 | 13.79 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2722 | 7/20/05 17:45 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2723 | 7/20/05 18:00 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2724 | 7/20/05 18:15 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2725 | 7/20/05 18:30 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2726 | 7/20/05 18:45 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2727 | 7/20/05 19:00 | 13.48 | 15.57 | 13.79 | 14.19 | 13.76 | |
| 2728 | 7/20/05 19:15 | 13.48 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2729 | 7/20/05 19:30 | 13.48 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2730 | 7/20/05 19:45 | 13.63 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2731 | 7/20/05 20:00 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2732 | 7/20/05 20:15 | 13.63 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2733 | 7/20/05 20:30 | 13.63 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2734 | 7/20/05 20:45 | 13.79 | 15.41 | 13.79 | 13.73 | 13.76 | |
| 2735 | 7/20/05 21:00 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2736 | 7/20/05 21:15 | 13.79 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2737 | 7/20/05 21:30 | 13.79 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2738 | 7/20/05 21:45 | 13.79 | 15.41 | 13.79 | 14.19 | 13.76 | |
| 2739 | 7/20/05 22:00 | 13.79 | 15.57 | 13.79 | 14.19 | 13.76 | |
| 2740 | 7/20/05 22:15 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2741 | 7/20/05 22:30 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2742 | 7/20/05 22:45 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2743 | 7/20/05 23:00 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2744 | 7/20/05 23:15 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2745 | 7/20/05 23:30 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2746 | 7/20/05 23:45 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2747 | 7/21/05 0:00 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2748 | 7/21/05 0:15 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2749 | 7/21/05 0:30 | 13.94 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2750 | 7/21/05 0:45 | 13.94 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2751 | 7/21/05 1:00 | 13.94 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2752 | 7/21/05 1:15 | 13.79 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2753 | 7/21/05 1:30 | 13.79 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2754 | 7/21/05 1:45 | 13.79 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2755 | 7/21/05 2:00 | 13.79 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2756 | 7/21/05 2:15 | 13.79 | 15.41 | 13.94 | 13.88 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2757 | 7/21/05 2:30 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2758 | 7/21/05 2:45 | 13.48 | 15.57 | 13.94 | 13.73 | 13.76 | |
| 2759 | 7/21/05 3:00 | 13.48 | 15.57 | 13.94 | 13.73 | 13.76 | |
| 2760 | 7/21/05 3:15 | 13.48 | 15.57 | 14.1 | 13.73 | 13.76 | |
| 2761 | 7/21/05 3:30 | 13.48 | 15.57 | 14.1 | 13.88 | 13.76 | |
| 2762 | 7/21/05 3:45 | 13.48 | 15.41 | 14.1 | 13.88 | 13.76 | |
| 2763 | 7/21/05 4:00 | 13.48 | 15.41 | 14.1 | 13.73 | 13.76 | |
| 2764 | 7/21/05 4:15 | 13.63 | 15.41 | 14.1 | 13.73 | 13.76 | |
| 2765 | 7/21/05 4:30 | 13.63 | 15.41 | 14.1 | 13.73 | 13.76 | |
| 2766 | 7/21/05 4:45 | 13.63 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2767 | 7/21/05 5:00 | 13.63 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2768 | 7/21/05 5:15 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2769 | 7/21/05 5:30 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2770 | 7/21/05 5:45 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2771 | 7/21/05 6:00 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2772 | 7/21/05 6:15 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2773 | 7/21/05 6:30 | 13.48 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2774 | 7/21/05 6:45 | 13.48 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2775 | 7/21/05 7:00 | 13.48 | 15.41 | 13.79 | 14.04 | 13.76 | |
| 2776 | 7/21/05 7:15 | 13.48 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 2777 | 7/21/05 7:30 | 13.48 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2778 | 7/21/05 7:45 | 13.48 | 15.41 | 13.94 | 13.73 | 13.76 | |
| 2779 | 7/21/05 8:00 | 13.48 | 15.41 | 13.94 | 13.73 | 13.76 | |
| 2780 | 7/21/05 8:15 | 13.48 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2781 | 7/21/05 8:30 | 13.48 | 15.41 | 13.79 | 13.88 | 13.76 | |
| 2782 | 7/21/05 8:45 | 13.48 | 15.57 | 13.79 | 13.73 | 13.76 | |
| 2783 | 7/21/05 9:00 | 13.48 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2784 | 7/21/05 9:15 | 13.63 | 15.57 | 13.79 | 13.88 | 13.76 | |
| 2785 | 7/21/05 9:30 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2786 | 7/21/05 9:45 | 13.48 | 15.41 | 13.79 | 14.04 | 13.92 | |
| 2787 | 7/21/05 10:00 | 13.48 | 15.57 | 13.79 | 14.04 | 13.92 | |
| 2788 | 7/21/05 10:15 | 13.48 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2789 | 7/21/05 10:30 | 13.48 | 15.57 | 13.79 | 14.19 | 13.76 | |
| 2790 | 7/21/05 10:45 | 13.48 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2791 | 7/21/05 11:00 | 13.48 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2792 | 7/21/05 11:15 | 13.63 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2793 | 7/21/05 11:30 | 14.26 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2794 | 7/21/05 11:45 | 15.04 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2795 | 7/21/05 12:00 | 15.67 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2796 | 7/21/05 12:15 | 15.99 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2797 | 7/21/05 12:30 | 15.04 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2798 | 7/21/05 12:45 | 13.79 | 15.73 | 14.1 | 14.04 | 13.76 | |
| 2799 | 7/21/05 13:00 | 13.63 | 15.73 | 14.1 | 14.04 | 13.76 | |
| 2800 | 7/21/05 13:15 | 13.63 | 15.73 | 14.41 | 13.88 | 13.76 | |
| 2801 | 7/21/05 13:30 | 13.48 | 15.57 | 14.41 | 14.04 | 13.76 | |
| 2802 | 7/21/05 13:45 | 13.48 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2803 | 7/21/05 14:00 | 13.63 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2804 | 7/21/05 14:15 | 13.94 | 15.57 | 14.26 | 14.04 | 13.76 | |
| 2805 | 7/21/05 14:30 | 14.88 | 15.73 | 14.41 | 14.04 | 13.76 | |
| 2806 | 7/21/05 14:45 | 14.88 | 15.57 | 14.41 | 14.04 | 13.76 | |
| 2807 | 7/21/05 15:00 | 15.04 | 15.57 | 14.41 | 14.04 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2808 | 7/21/05 15:15 | 15.04 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 2809 | 7/21/05 15:30 | 14.88 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2810 | 7/21/05 15:45 | 14.41 | 15.57 | 14.1 | 14.51 | 13.76 | |
| 2811 | 7/21/05 16:00 | 14.26 | 15.57 | 14.1 | 14.35 | 13.76 | |
| 2812 | 7/21/05 16:15 | 14.1 | 15.41 | 14.1 | 13.88 | 13.76 | |
| 2813 | 7/21/05 16:30 | 14.1 | 15.41 | 13.94 | 13.88 | 13.76 | |
| 2814 | 7/21/05 16:45 | 14.1 | 15.41 | 14.1 | 13.88 | 13.76 | |
| 2815 | 7/21/05 17:00 | 14.1 | 15.26 | 13.94 | 13.88 | 13.92 | |
| 2816 | 7/21/05 17:15 | 14.1 | 15.26 | 13.94 | 14.04 | 13.92 | |
| 2817 | 7/21/05 17:30 | 13.94 | 15.26 | 13.94 | 14.04 | 13.92 | |
| 2818 | 7/21/05 17:45 | 13.94 | 15.26 | 13.94 | 14.04 | 14.23 | |
| 2819 | 7/21/05 18:00 | 13.79 | 15.41 | 14.1 | 14.19 | 14.38 | |
| 2820 | 7/21/05 18:15 | 13.79 | 15.41 | 14.1 | 14.19 | 14.54 | |
| 2821 | 7/21/05 18:30 | 13.79 | 15.41 | 13.94 | 14.35 | 14.7 | |
| 2822 | 7/21/05 18:45 | 13.79 | 15.57 | 13.94 | 14.51 | 14.7 | |
| 2823 | 7/21/05 19:00 | 13.79 | 15.57 | 13.94 | 14.35 | 14.54 | |
| 2824 | 7/21/05 19:15 | 13.79 | 15.41 | 13.94 | 14.35 | 14.86 | |
| 2825 | 7/21/05 19:30 | 13.63 | 15.57 | 13.94 | 14.51 | 14.7 | |
| 2826 | 7/21/05 19:45 | 13.63 | 15.57 | 13.94 | 14.51 | 14.7 | |
| 2827 | 7/21/05 20:00 | 13.79 | 15.57 | 13.94 | 14.51 | 14.7 | |
| 2828 | 7/21/05 20:15 | 13.63 | 15.57 | 13.94 | 14.51 | 14.54 | |
| 2829 | 7/21/05 20:30 | 13.63 | 15.57 | 13.94 | 14.67 | 14.7 | |
| 2830 | 7/21/05 20:45 | 13.79 | 15.57 | 13.94 | 14.82 | 14.86 | |
| 2831 | 7/21/05 21:00 | 13.94 | 15.57 | 13.94 | 14.51 | 14.38 | |
| 2832 | 7/21/05 21:15 | 13.79 | 15.57 | 14.1 | 14.51 | 14.54 | |
| 2833 | 7/21/05 21:30 | 13.79 | 15.57 | 13.94 | 14.51 | 14.54 | |
| 2834 | 7/21/05 21:45 | 13.94 | 15.57 | 14.1 | 14.67 | 13.92 | |
| 2835 | 7/21/05 22:00 | 13.79 | 15.57 | 14.1 | 14.67 | 13.92 | |
| 2836 | 7/21/05 22:15 | 13.79 | 15.57 | 14.1 | 14.67 | 13.76 | |
| 2837 | 7/21/05 22:30 | 13.79 | 15.57 | 14.26 | 14.67 | 13.92 | |
| 2838 | 7/21/05 22:45 | 13.79 | 15.57 | 14.26 | 14.67 | 13.92 | |
| 2839 | 7/21/05 23:00 | 13.79 | 15.57 | 14.26 | 14.67 | 13.92 | |
| 2840 | 7/21/05 23:15 | 13.94 | 15.57 | 14.41 | 14.67 | 13.92 | |
| 2841 | 7/21/05 23:30 | 14.1 | 15.57 | 14.26 | 14.67 | 13.92 | |
| 2842 | 7/21/05 23:45 | 14.1 | 15.57 | 14.26 | 14.67 | 13.92 | |
| 2843 | 7/22/05 0:00 | 14.1 | 15.57 | 14.1 | 14.67 | 13.92 | |
| 2844 | 7/22/05 0:15 | 14.1 | 15.57 | 14.1 | 14.67 | 13.92 | |
| 2845 | 7/22/05 0:30 | 14.1 | 15.57 | 14.1 | 14.67 | 13.76 | |
| 2846 | 7/22/05 0:45 | 14.1 | 15.57 | 14.1 | 14.67 | 13.76 | |
| 2847 | 7/22/05 1:00 | 14.1 | 15.57 | 14.26 | 14.67 | 13.76 | |
| 2848 | 7/22/05 1:15 | 13.94 | 15.57 | 14.1 | 14.67 | 13.76 | |
| 2849 | 7/22/05 1:30 | 13.94 | 15.57 | 14.1 | 14.67 | 13.76 | |
| 2850 | 7/22/05 1:45 | 13.94 | 15.41 | 14.1 | 14.67 | 13.76 | |
| 2851 | 7/22/05 2:00 | 13.94 | 15.41 | 14.1 | 14.51 | 13.76 | |
| 2852 | 7/22/05 2:15 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2853 | 7/22/05 2:30 | 13.63 | 15.41 | 14.1 | 14.04 | 13.76 | |
| 2854 | 7/22/05 2:45 | 13.63 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2855 | 7/22/05 3:00 | 13.63 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2856 | 7/22/05 3:15 | 13.63 | 15.73 | 14.1 | 14.04 | 13.76 | |
| 2857 | 7/22/05 3:30 | 13.63 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2858 | 7/22/05 3:45 | 13.63 | 15.73 | 14.1 | 14.04 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2859 | 7/22/05 4:00 | 13.63 | 15.57 | 14.1 | 13.88 | 13.76 | |
| 2860 | 7/22/05 4:15 | 13.63 | 15.57 | 14.26 | 14.04 | 13.76 | |
| 2861 | 7/22/05 4:30 | 13.79 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2862 | 7/22/05 4:45 | 13.79 | 15.57 | 14.1 | 13.88 | 13.76 | |
| 2863 | 7/22/05 5:00 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2864 | 7/22/05 5:15 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2865 | 7/22/05 5:30 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2866 | 7/22/05 5:45 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2867 | 7/22/05 6:00 | 13.79 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2868 | 7/22/05 6:15 | 13.79 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2869 | 7/22/05 6:30 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2870 | 7/22/05 6:45 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2871 | 7/22/05 7:00 | 13.48 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2872 | 7/22/05 7:15 | 13.48 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2873 | 7/22/05 7:30 | 13.48 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2874 | 7/22/05 7:45 | 13.48 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2875 | 7/22/05 8:00 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2876 | 7/22/05 8:15 | 13.63 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2877 | 7/22/05 8:30 | 13.48 | 15.57 | 13.94 | 13.88 | 13.76 | |
| 2878 | 7/22/05 8:45 | 13.48 | 15.57 | 13.94 | 13.88 | 13.92 | |
| 2879 | 7/22/05 9:00 | 13.48 | 15.57 | 13.94 | 13.88 | 13.92 | |
| 2880 | 7/22/05 9:15 | 13.48 | 15.57 | 13.94 | 13.88 | 13.92 | |
| 2881 | 7/22/05 9:30 | 13.48 | 15.57 | 13.94 | 13.88 | 13.92 | |
| 2882 | 7/22/05 9:45 | 13.48 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2883 | 7/22/05 10:00 | 13.48 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2884 | 7/22/05 10:15 | 13.63 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2885 | 7/22/05 10:30 | 13.63 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2886 | 7/22/05 10:45 | 13.63 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2887 | 7/22/05 11:00 | 13.63 | 15.57 | 14.1 | 14.04 | 13.76 | |
| 2888 | 7/22/05 11:15 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2889 | 7/22/05 11:30 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 2890 | 7/22/05 11:45 | 14.26 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 2891 | 7/22/05 12:00 | 14.41 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 2892 | 7/22/05 12:15 | 14.41 | 15.57 | 14.41 | 14.82 | 13.92 | |
| 2893 | 7/22/05 12:30 | 14.57 | 15.57 | 14.57 | 14.35 | 13.92 | |
| 2894 | 7/22/05 12:45 | 14.57 | 15.57 | 14.57 | 14.04 | 13.92 | |
| 2895 | 7/22/05 13:00 | 14.1 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 2896 | 7/22/05 13:15 | 13.94 | 15.57 | 14.41 | 14.04 | 13.76 | |
| 2897 | 7/22/05 13:30 | 13.79 | 15.57 | 14.57 | 14.04 | 13.76 | |
| 2898 | 7/22/05 13:45 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 2899 | 7/22/05 14:00 | 13.79 | 15.57 | 14.57 | 14.04 | 13.92 | |
| 2900 | 7/22/05 14:15 | 13.79 | 15.57 | 14.57 | 14.04 | 13.92 | |
| 2901 | 7/22/05 14:30 | 15.36 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 2902 | 7/22/05 14:45 | 15.67 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 2903 | 7/22/05 15:00 | 15.36 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2904 | 7/22/05 15:15 | 15.19 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2905 | 7/22/05 15:30 | 15.04 | 15.41 | 14.26 | 14.04 | 13.92 | |
| 2906 | 7/22/05 15:45 | 14.88 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2907 | 7/22/05 16:00 | 14.72 | 15.41 | 14.57 | 14.04 | 13.92 | |
| 2908 | 7/22/05 16:15 | 14.57 | 15.41 | 14.57 | 14.04 | 13.92 | |
| 2909 | 7/22/05 16:30 | 14.26 | 15.41 | 14.41 | 14.04 | 13.92 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2910 | 7/22/05 16:45 | 14.26 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2911 | 7/22/05 17:00 | 14.1 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2912 | 7/22/05 17:15 | 14.1 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2913 | 7/22/05 17:30 | 13.79 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 2914 | 7/22/05 17:45 | 13.63 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 2915 | 7/22/05 18:00 | 13.79 | 15.57 | 15.2 | 14.19 | 13.92 | |
| 2916 | 7/22/05 18:15 | 13.63 | 15.57 | 14.57 | 14.35 | 14.07 | |
| 2917 | 7/22/05 18:30 | 13.63 | 15.73 | 14.73 | 14.35 | 14.07 | |
| 2918 | 7/22/05 18:45 | 13.79 | 15.73 | 14.57 | 14.35 | 14.07 | |
| 2919 | 7/22/05 19:00 | 13.63 | 15.73 | 14.57 | 14.35 | 13.92 | |
| 2920 | 7/22/05 19:15 | 13.63 | 15.73 | 14.41 | 14.35 | 13.92 | |
| 2921 | 7/22/05 19:30 | 13.63 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 2922 | 7/22/05 19:45 | 13.63 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 2923 | 7/22/05 20:00 | 13.63 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 2924 | 7/22/05 20:15 | 13.79 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 2925 | 7/22/05 20:30 | 13.79 | 15.73 | 13.94 | 14.35 | 13.92 | |
| 2926 | 7/22/05 20:45 | 13.79 | 15.73 | 13.94 | 14.35 | 13.92 | |
| 2927 | 7/22/05 21:00 | 13.79 | 15.57 | 13.94 | 14.35 | 13.92 | |
| 2928 | 7/22/05 21:15 | 13.79 | 15.57 | 13.94 | 14.35 | 13.92 | |
| 2929 | 7/22/05 21:30 | 13.79 | 15.57 | 13.94 | 14.35 | 13.92 | |
| 2930 | 7/22/05 21:45 | 13.79 | 15.57 | 13.94 | 14.35 | 13.92 | |
| 2931 | 7/22/05 22:00 | 13.79 | 15.57 | 13.94 | 14.51 | 13.92 | |
| 2932 | 7/22/05 22:15 | 13.79 | 15.57 | 13.94 | 14.51 | 13.92 | |
| 2933 | 7/22/05 22:30 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 2934 | 7/22/05 22:45 | 13.94 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 2935 | 7/22/05 23:00 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 2936 | 7/22/05 23:15 | 13.94 | 15.41 | 14.1 | 14.35 | 14.07 | |
| 2937 | 7/22/05 23:30 | 13.79 | 15.41 | 14.26 | 14.19 | 14.07 | |
| 2938 | 7/22/05 23:45 | 13.94 | 15.41 | 14.1 | 14.19 | 14.07 | |
| 2939 | 7/23/05 0:00 | 13.79 | 15.41 | 14.1 | 14.19 | 13.92 | |
| 2940 | 7/23/05 0:15 | 13.94 | 15.41 | 14.1 | 14.19 | 13.92 | |
| 2941 | 7/23/05 0:30 | 13.94 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2942 | 7/23/05 0:45 | 13.79 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 2943 | 7/23/05 1:00 | 13.79 | 15.57 | 14.26 | 14.35 | 13.76 | |
| 2944 | 7/23/05 1:15 | 13.79 | 15.57 | 14.1 | 14.35 | 13.76 | |
| 2945 | 7/23/05 1:30 | 13.79 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 2946 | 7/23/05 1:45 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2947 | 7/23/05 2:00 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2948 | 7/23/05 2:15 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2949 | 7/23/05 2:30 | 13.79 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 2950 | 7/23/05 2:45 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2951 | 7/23/05 3:00 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2952 | 7/23/05 3:15 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2953 | 7/23/05 3:30 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2954 | 7/23/05 3:45 | 13.79 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 2955 | 7/23/05 4:00 | 13.79 | 15.41 | 14.1 | 14.04 | 13.76 | |
| 2956 | 7/23/05 4:15 | 13.79 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2957 | 7/23/05 4:30 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2958 | 7/23/05 4:45 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2959 | 7/23/05 5:00 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2960 | 7/23/05 5:15 | 13.94 | 15.57 | 13.79 | 14.19 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 2961 | 7/23/05 5:30 | 13.94 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2962 | 7/23/05 5:45 | 13.94 | 15.57 | 13.79 | 14.19 | 13.76 | |
| 2963 | 7/23/05 6:00 | 13.94 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2964 | 7/23/05 6:15 | 13.79 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2965 | 7/23/05 6:30 | 13.79 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2966 | 7/23/05 6:45 | 13.79 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2967 | 7/23/05 7:00 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2968 | 7/23/05 7:15 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2969 | 7/23/05 7:30 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2970 | 7/23/05 7:45 | 13.48 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2971 | 7/23/05 8:00 | 13.63 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2972 | 7/23/05 8:15 | 13.48 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2973 | 7/23/05 8:30 | 13.63 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2974 | 7/23/05 8:45 | 13.63 | 15.57 | 13.94 | 14.04 | 13.76 | |
| 2975 | 7/23/05 9:00 | 13.79 | 15.57 | 13.79 | 14.04 | 13.76 | |
| 2976 | 7/23/05 9:15 | 13.79 | 15.57 | 13.79 | 14.19 | 13.76 | |
| 2977 | 7/23/05 9:30 | 13.79 | 15.57 | 13.94 | 14.19 | 13.76 | |
| 2978 | 7/23/05 9:45 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2979 | 7/23/05 10:00 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2980 | 7/23/05 10:15 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2981 | 7/23/05 10:30 | 13.79 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 2982 | 7/23/05 10:45 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 2983 | 7/23/05 11:00 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2984 | 7/23/05 11:15 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 2985 | 7/23/05 11:30 | 13.94 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 2986 | 7/23/05 11:45 | 14.1 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 2987 | 7/23/05 12:00 | 14.1 | 15.73 | 14.1 | 14.19 | 13.76 | |
| 2988 | 7/23/05 12:15 | 13.94 | 15.73 | 14.1 | 14.19 | 13.76 | |
| 2989 | 7/23/05 12:30 | 13.94 | 15.73 | 14.1 | 14.19 | 13.76 | |
| 2990 | 7/23/05 12:45 | 13.94 | 15.73 | 14.1 | 14.19 | 13.76 | |
| 2991 | 7/23/05 13:00 | 13.94 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2992 | 7/23/05 13:15 | 14.26 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2993 | 7/23/05 13:30 | 14.57 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2994 | 7/23/05 13:45 | 14.41 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2995 | 7/23/05 14:00 | 14.1 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2996 | 7/23/05 14:15 | 13.94 | 15.73 | 14.41 | 14.19 | 13.76 | |
| 2997 | 7/23/05 14:30 | 13.94 | 15.57 | 14.26 | 14.19 | 13.76 | |
| 2998 | 7/23/05 14:45 | 13.79 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 2999 | 7/23/05 15:00 | 13.79 | 15.57 | 14.26 | 14.19 | 13.76 | |
| 3000 | 7/23/05 15:15 | 13.79 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 3001 | 7/23/05 15:30 | 13.79 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 3002 | 7/23/05 15:45 | 13.94 | 15.89 | 14.26 | 14.19 | 13.76 | |
| 3003 | 7/23/05 16:00 | 14.57 | 15.89 | 14.26 | 14.19 | 13.76 | |
| 3004 | 7/23/05 16:15 | 14.57 | 15.73 | 14.26 | 14.19 | 13.76 | |
| 3005 | 7/23/05 16:30 | 14.41 | 15.57 | 14.26 | 14.19 | 13.76 | |
| 3006 | 7/23/05 16:45 | 14.26 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 3007 | 7/23/05 17:00 | 14.26 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 3008 | 7/23/05 17:15 | 14.1 | 15.57 | 14.26 | 14.19 | 13.76 | |
| 3009 | 7/23/05 17:30 | 14.1 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 3010 | 7/23/05 17:45 | 14.1 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 3011 | 7/23/05 18:00 | 13.94 | 15.57 | 14.1 | 14.19 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3012 | 7/23/05 18:15 | 13.94 | 15.57 | 13.94 | 14.51 | 13.76 | |
| 3013 | 7/23/05 18:30 | 13.94 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 3014 | 7/23/05 18:45 | 13.94 | 15.57 | 14.1 | 14.19 | 13.76 | |
| 3015 | 7/23/05 19:00 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 3016 | 7/23/05 19:15 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 3017 | 7/23/05 19:30 | 13.79 | 15.57 | 13.94 | 14.19 | 14.07 | |
| 3018 | 7/23/05 19:45 | 13.79 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 3019 | 7/23/05 20:00 | 13.79 | 15.73 | 13.94 | 14.19 | 14.07 | |
| 3020 | 7/23/05 20:15 | 13.79 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3021 | 7/23/05 20:30 | 13.79 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3022 | 7/23/05 20:45 | 13.63 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3023 | 7/23/05 21:00 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3024 | 7/23/05 21:15 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3025 | 7/23/05 21:30 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3026 | 7/23/05 21:45 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3027 | 7/23/05 22:00 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3028 | 7/23/05 22:15 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3029 | 7/23/05 22:30 | 13.63 | 15.73 | 13.94 | 14.19 | 13.76 | |
| 3030 | 7/23/05 22:45 | 13.63 | 15.73 | 13.94 | 14.19 | 13.76 | |
| 3031 | 7/23/05 23:00 | 13.79 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3032 | 7/23/05 23:15 | 13.79 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3033 | 7/23/05 23:30 | 13.79 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3034 | 7/23/05 23:45 | 13.79 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3035 | 7/24/05 0:00 | 13.79 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3036 | 7/24/05 0:15 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3037 | 7/24/05 0:30 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3038 | 7/24/05 0:45 | 13.94 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3039 | 7/24/05 1:00 | 13.94 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3040 | 7/24/05 1:15 | 13.94 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3041 | 7/24/05 1:30 | 13.94 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3042 | 7/24/05 1:45 | 13.94 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3043 | 7/24/05 2:00 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3044 | 7/24/05 2:15 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3045 | 7/24/05 2:30 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3046 | 7/24/05 2:45 | 13.94 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3047 | 7/24/05 3:00 | 13.94 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3048 | 7/24/05 3:15 | 14.1 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3049 | 7/24/05 3:30 | 14.1 | 15.73 | 14.41 | 14.19 | 13.92 | |
| 3050 | 7/24/05 3:45 | 13.94 | 15.41 | 14.41 | 14.19 | 13.76 | |
| 3051 | 7/24/05 4:00 | 13.94 | 15.41 | 14.41 | 14.19 | 13.76 | |
| 3052 | 7/24/05 4:15 | 13.79 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3053 | 7/24/05 4:30 | 13.79 | 15.41 | 14.41 | 14.19 | 13.76 | |
| 3054 | 7/24/05 4:45 | 13.79 | 15.41 | 14.41 | 14.19 | 13.76 | |
| 3055 | 7/24/05 5:00 | 13.63 | 15.41 | 14.57 | 14.19 | 13.76 | |
| 3056 | 7/24/05 5:15 | 13.63 | 15.41 | 14.57 | 14.19 | 13.76 | |
| 3057 | 7/24/05 5:30 | 13.63 | 15.41 | 14.57 | 14.04 | 13.76 | |
| 3058 | 7/24/05 5:45 | 13.63 | 15.41 | 14.57 | 14.04 | 13.76 | |
| 3059 | 7/24/05 6:00 | 13.63 | 15.41 | 14.41 | 14.04 | 13.76 | |
| 3060 | 7/24/05 6:15 | 13.63 | 15.41 | 14.26 | 14.04 | 13.76 | |
| 3061 | 7/24/05 6:30 | 13.63 | 15.41 | 14.1 | 14.19 | 13.76 | |
| 3062 | 7/24/05 6:45 | 13.79 | 15.41 | 14.1 | 14.04 | 13.76 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3063 | 7/24/05 7:00 | 13.79 | 15.41 | 13.94 | 14.04 | 13.76 | |
| 3064 | 7/24/05 7:15 | 13.79 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3065 | 7/24/05 7:30 | 13.79 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3066 | 7/24/05 7:45 | 13.63 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3067 | 7/24/05 8:00 | 13.79 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3068 | 7/24/05 8:15 | 13.79 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3069 | 7/24/05 8:30 | 13.94 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3070 | 7/24/05 8:45 | 13.63 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3071 | 7/24/05 9:00 | 13.48 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3072 | 7/24/05 9:15 | 13.48 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3073 | 7/24/05 9:30 | 13.48 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3074 | 7/24/05 9:45 | 13.48 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3075 | 7/24/05 10:00 | 13.48 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3076 | 7/24/05 10:15 | 13.48 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3077 | 7/24/05 10:30 | 13.63 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3078 | 7/24/05 10:45 | 13.63 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3079 | 7/24/05 11:00 | 13.63 | 15.41 | 13.94 | 14.04 | 13.92 | |
| 3080 | 7/24/05 11:15 | 13.63 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 3081 | 7/24/05 11:30 | 13.63 | 15.73 | 14.1 | 14.04 | 13.92 | |
| 3082 | 7/24/05 11:45 | 13.63 | 15.73 | 13.94 | 14.04 | 13.92 | |
| 3083 | 7/24/05 12:00 | 13.63 | 15.73 | 13.94 | 14.04 | 13.92 | |
| 3084 | 7/24/05 12:15 | 13.63 | 15.73 | 13.94 | 14.19 | 13.92 | |
| 3085 | 7/24/05 12:30 | 13.63 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3086 | 7/24/05 12:45 | 13.63 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3087 | 7/24/05 13:00 | 13.63 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3088 | 7/24/05 13:15 | 13.79 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3089 | 7/24/05 13:30 | 13.79 | 15.89 | 14.1 | 14.35 | 13.92 | |
| 3090 | 7/24/05 13:45 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3091 | 7/24/05 14:00 | 14.1 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3092 | 7/24/05 14:15 | 14.1 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3093 | 7/24/05 14:30 | 14.1 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3094 | 7/24/05 14:45 | 13.94 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 3095 | 7/24/05 15:00 | 13.94 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 3096 | 7/24/05 15:15 | 13.79 | 15.41 | 14.41 | 14.04 | 13.92 | |
| 3097 | 7/24/05 15:30 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3098 | 7/24/05 15:45 | 13.63 | 15.57 | 14.41 | 14.04 | 13.92 | |
| 3099 | 7/24/05 16:00 | 13.63 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3100 | 7/24/05 16:15 | 13.63 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3101 | 7/24/05 16:30 | 14.88 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3102 | 7/24/05 16:45 | 15.36 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3103 | 7/24/05 17:00 | 14.88 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3104 | 7/24/05 17:15 | 14.57 | 15.41 | 14.26 | 14.19 | 13.92 | |
| 3105 | 7/24/05 17:30 | 14.41 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3106 | 7/24/05 17:45 | 14.41 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3107 | 7/24/05 18:00 | 14.41 | 15.41 | 14.1 | 14.19 | 13.92 | |
| 3108 | 7/24/05 18:15 | 14.26 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3109 | 7/24/05 18:30 | 14.1 | 15.41 | 14.1 | 14.51 | 13.92 | |
| 3110 | 7/24/05 18:45 | 14.1 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3111 | 7/24/05 19:00 | 13.94 | 15.41 | 14.1 | 14.51 | 13.92 | |
| 3112 | 7/24/05 19:15 | 13.94 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3113 | 7/24/05 19:30 | 13.94 | 15.57 | 14.1 | 14.35 | 13.92 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3114 | 7/24/05 19:45 | 13.94 | 15.41 | 14.1 | 14.35 | 13.92 | |
| 3115 | 7/24/05 20:00 | 13.94 | 15.41 | 14.1 | 14.04 | 13.92 | |
| 3116 | 7/24/05 20:15 | 13.94 | 15.41 | 14.1 | 14.19 | 13.92 | |
| 3117 | 7/24/05 20:30 | 13.94 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3118 | 7/24/05 20:45 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3119 | 7/24/05 21:00 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3120 | 7/24/05 21:15 | 13.79 | 15.57 | 13.94 | 14.19 | 14.07 | |
| 3121 | 7/24/05 21:30 | 13.79 | 15.57 | 13.94 | 14.35 | 14.07 | |
| 3122 | 7/24/05 21:45 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3123 | 7/24/05 22:00 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3124 | 7/24/05 22:15 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3125 | 7/24/05 22:30 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3126 | 7/24/05 22:45 | 13.63 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3127 | 7/24/05 23:00 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3128 | 7/24/05 23:15 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3129 | 7/24/05 23:30 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3130 | 7/24/05 23:45 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3131 | 7/25/05 0:00 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3132 | 7/25/05 0:15 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3133 | 7/25/05 0:30 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3134 | 7/25/05 0:45 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3135 | 7/25/05 1:00 | 13.79 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3136 | 7/25/05 1:15 | 13.79 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3137 | 7/25/05 1:30 | 13.63 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3138 | 7/25/05 1:45 | 13.63 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3139 | 7/25/05 2:00 | 13.79 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3140 | 7/25/05 2:15 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3141 | 7/25/05 2:30 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3142 | 7/25/05 2:45 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3143 | 7/25/05 3:00 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3144 | 7/25/05 3:15 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3145 | 7/25/05 3:30 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3146 | 7/25/05 3:45 | 14.1 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3147 | 7/25/05 4:00 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3148 | 7/25/05 4:15 | 13.94 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3149 | 7/25/05 4:30 | 13.94 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3150 | 7/25/05 4:45 | 13.79 | 15.73 | 14.26 | 14.35 | 13.92 | |
| 3151 | 7/25/05 5:00 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3152 | 7/25/05 5:15 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3153 | 7/25/05 5:30 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3154 | 7/25/05 5:45 | 13.79 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3155 | 7/25/05 6:00 | 13.79 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3156 | 7/25/05 6:15 | 13.79 | 15.57 | 14.26 | 14.04 | 13.92 | |
| 3157 | 7/25/05 6:30 | 13.63 | 15.57 | 14.26 | 14.04 | 13.92 | |
| 3158 | 7/25/05 6:45 | 13.63 | 15.57 | 14.26 | 14.04 | 13.92 | |
| 3159 | 7/25/05 7:00 | 13.63 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3160 | 7/25/05 7:15 | 13.79 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3161 | 7/25/05 7:30 | 14.1 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3162 | 7/25/05 7:45 | 13.94 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3163 | 7/25/05 8:00 | 13.94 | 15.57 | 14.1 | 14.04 | 13.92 | |
| 3164 | 7/25/05 8:15 | 13.94 | 15.57 | 14.1 | 14.04 | 13.92 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3165 | 7/25/05 8:30 | 13.94 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 3166 | 7/25/05 8:45 | 13.94 | 15.41 | 13.94 | 14.19 | 13.92 | |
| 3167 | 7/25/05 9:00 | 13.94 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 3168 | 7/25/05 9:15 | 13.79 | 15.57 | 13.94 | 14.04 | 13.92 | |
| 3169 | 7/25/05 9:30 | 13.63 | 15.57 | 13.94 | 14.19 | 13.92 | |
| 3170 | 7/25/05 9:45 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3171 | 7/25/05 10:00 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3172 | 7/25/05 10:15 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3173 | 7/25/05 10:30 | 13.63 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3174 | 7/25/05 10:45 | 13.48 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3175 | 7/25/05 11:00 | 13.63 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3176 | 7/25/05 11:15 | 13.63 | 15.73 | 14.1 | 14.19 | 14.07 | |
| 3177 | 7/25/05 11:30 | 13.63 | 15.73 | 14.1 | 14.35 | 14.07 | |
| 3178 | 7/25/05 11:45 | 13.63 | 15.73 | 14.1 | 14.35 | 14.07 | |
| 3179 | 7/25/05 12:00 | 13.79 | 15.73 | 14.1 | 14.19 | 14.23 | |
| 3180 | 7/25/05 12:15 | 13.79 | 15.73 | 14.1 | 14.35 | 14.23 | |
| 3181 | 7/25/05 12:30 | 13.79 | 15.73 | 14.1 | 14.19 | 14.23 | |
| 3182 | 7/25/05 12:45 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3183 | 7/25/05 13:00 | 13.79 | 15.57 | 14.1 | 14.19 | 14.38 | |
| 3184 | 7/25/05 13:15 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3185 | 7/25/05 13:30 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3186 | 7/25/05 13:45 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3187 | 7/25/05 14:00 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3188 | 7/25/05 14:15 | 13.94 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3189 | 7/25/05 14:30 | 13.94 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3190 | 7/25/05 14:45 | 14.1 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3191 | 7/25/05 15:00 | 14.1 | 15.73 | 14.41 | 14.19 | 14.07 | |
| 3192 | 7/25/05 15:15 | 14.1 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3193 | 7/25/05 15:30 | 13.94 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3194 | 7/25/05 15:45 | 14.1 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3195 | 7/25/05 16:00 | 13.94 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3196 | 7/25/05 16:15 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3197 | 7/25/05 16:30 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3198 | 7/25/05 16:45 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3199 | 7/25/05 17:00 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3200 | 7/25/05 17:15 | 14.88 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3201 | 7/25/05 17:30 | 15.51 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3202 | 7/25/05 17:45 | 15.51 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3203 | 7/25/05 18:00 | 15.04 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3204 | 7/25/05 18:15 | 14.72 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3205 | 7/25/05 18:30 | 14.57 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3206 | 7/25/05 18:45 | 14.57 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3207 | 7/25/05 19:00 | 14.41 | 15.41 | 14.41 | 14.19 | 13.92 | |
| 3208 | 7/25/05 19:15 | 14.26 | 15.41 | 14.26 | 14.19 | 13.92 | |
| 3209 | 7/25/05 19:30 | 14.26 | 15.41 | 14.26 | 14.19 | 13.92 | |
| 3210 | 7/25/05 19:45 | 14.1 | 15.41 | 14.26 | 14.19 | 13.92 | |
| 3211 | 7/25/05 20:00 | 14.1 | 15.41 | 14.1 | 14.19 | 14.07 | |
| 3212 | 7/25/05 20:15 | 14.1 | 15.41 | 14.1 | 14.35 | 14.07 | |
| 3213 | 7/25/05 20:30 | 14.1 | 15.41 | 14.26 | 14.19 | 14.07 | |
| 3214 | 7/25/05 20:45 | 13.94 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3215 | 7/25/05 21:00 | 13.94 | 15.57 | 14.1 | 14.19 | 14.07 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3216 | 7/25/05 21:15 | 13.94 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3217 | 7/25/05 21:30 | 13.94 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3218 | 7/25/05 21:45 | 13.94 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3219 | 7/25/05 22:00 | 13.94 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3220 | 7/25/05 22:15 | 13.94 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3221 | 7/25/05 22:30 | 13.79 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3222 | 7/25/05 22:45 | 13.94 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3223 | 7/25/05 23:00 | 13.94 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3224 | 7/25/05 23:15 | 13.94 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3225 | 7/25/05 23:30 | 13.79 | 15.57 | 14.1 | 14.51 | 14.07 | |
| 3226 | 7/25/05 23:45 | 13.79 | 15.57 | 14.1 | 14.51 | 13.92 | |
| 3227 | 7/26/05 0:00 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3228 | 7/26/05 0:15 | 13.79 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3229 | 7/26/05 0:30 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3230 | 7/26/05 0:45 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3231 | 7/26/05 1:00 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3232 | 7/26/05 1:15 | 13.79 | 15.57 | 14.1 | 14.35 | 13.92 | |
| 3233 | 7/26/05 1:30 | 13.79 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3234 | 7/26/05 1:45 | 13.79 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3235 | 7/26/05 2:00 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3236 | 7/26/05 2:15 | 13.79 | 15.57 | 14.26 | 14.35 | 13.92 | |
| 3237 | 7/26/05 2:30 | 13.79 | 15.57 | 14.41 | 14.35 | 14.07 | |
| 3238 | 7/26/05 2:45 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3239 | 7/26/05 3:00 | 13.79 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3240 | 7/26/05 3:15 | 13.79 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3241 | 7/26/05 3:30 | 13.79 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3242 | 7/26/05 3:45 | 13.94 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3243 | 7/26/05 4:00 | 14.26 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3244 | 7/26/05 4:15 | 14.26 | 15.89 | 14.26 | 14.51 | 14.07 | |
| 3245 | 7/26/05 4:30 | 14.26 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3246 | 7/26/05 4:45 | 14.26 | 15.89 | 14.26 | 14.51 | 14.07 | |
| 3247 | 7/26/05 5:00 | 14.26 | 15.73 | 14.41 | 14.51 | 13.92 | |
| 3248 | 7/26/05 5:15 | 14.1 | 15.73 | 14.41 | 14.51 | 13.92 | |
| 3249 | 7/26/05 5:30 | 14.1 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3250 | 7/26/05 5:45 | 13.94 | 15.57 | 14.57 | 14.35 | 13.92 | |
| 3251 | 7/26/05 6:00 | 13.94 | 15.57 | 14.57 | 14.35 | 13.92 | |
| 3252 | 7/26/05 6:15 | 13.94 | 15.57 | 14.57 | 14.35 | 13.92 | |
| 3253 | 7/26/05 6:30 | 13.94 | 15.73 | 14.41 | 14.19 | 13.92 | |
| 3254 | 7/26/05 6:45 | 13.94 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3255 | 7/26/05 7:00 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3256 | 7/26/05 7:15 | 13.79 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3257 | 7/26/05 7:30 | 13.79 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3258 | 7/26/05 7:45 | 14.26 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3259 | 7/26/05 8:00 | 14.57 | 15.57 | 14.26 | 14.19 | 13.92 | |
| 3260 | 7/26/05 8:15 | 14.57 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3261 | 7/26/05 8:30 | 14.57 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3262 | 7/26/05 8:45 | 14.1 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3263 | 7/26/05 9:00 | 14.1 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3264 | 7/26/05 9:15 | 14.1 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3265 | 7/26/05 9:30 | 14.1 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3266 | 7/26/05 9:45 | 14.1 | 15.57 | 14.1 | 14.19 | 13.92 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3267 | 7/26/05 10:00 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3268 | 7/26/05 10:15 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3269 | 7/26/05 10:30 | 13.79 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3270 | 7/26/05 10:45 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3271 | 7/26/05 11:00 | 13.63 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3272 | 7/26/05 11:15 | 13.79 | 15.57 | 14.1 | 14.19 | 14.07 | |
| 3273 | 7/26/05 11:30 | 13.63 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3274 | 7/26/05 11:45 | 13.63 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3275 | 7/26/05 12:00 | 13.63 | 15.57 | 14.26 | 14.51 | 14.07 | |
| 3276 | 7/26/05 12:15 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3277 | 7/26/05 12:30 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3278 | 7/26/05 12:45 | 13.79 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3279 | 7/26/05 13:00 | 13.94 | 15.57 | 14.1 | 14.35 | 14.07 | |
| 3280 | 7/26/05 13:15 | 13.94 | 15.57 | 14.1 | 14.19 | 13.92 | |
| 3281 | 7/26/05 13:30 | 13.94 | 15.73 | 14.1 | 14.19 | 14.07 | |
| 3282 | 7/26/05 13:45 | 13.94 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3283 | 7/26/05 14:00 | 13.94 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3284 | 7/26/05 14:15 | 13.94 | 15.73 | 14.1 | 14.19 | 13.92 | |
| 3285 | 7/26/05 14:30 | 13.94 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3286 | 7/26/05 14:45 | 13.94 | 15.73 | 14.1 | 14.35 | 13.92 | |
| 3287 | 7/26/05 15:00 | 13.94 | 15.73 | 14.1 | 14.35 | 14.07 | |
| 3288 | 7/26/05 15:15 | 13.94 | 15.73 | 14.1 | 14.35 | 14.07 | |
| 3289 | 7/26/05 15:30 | 13.94 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3290 | 7/26/05 15:45 | 14.1 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3291 | 7/26/05 16:00 | 14.1 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3292 | 7/26/05 16:15 | 13.94 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3293 | 7/26/05 16:30 | 13.94 | 15.73 | 14.41 | 14.51 | 13.92 | |
| 3294 | 7/26/05 16:45 | 13.94 | 15.73 | 14.41 | 14.35 | 13.92 | |
| 3295 | 7/26/05 17:00 | 13.94 | 15.73 | 14.41 | 14.35 | 13.92 | |
| 3296 | 7/26/05 17:15 | 14.1 | 15.73 | 14.41 | 14.35 | 13.92 | |
| 3297 | 7/26/05 17:30 | 13.94 | 15.73 | 14.41 | 14.35 | 13.92 | |
| 3298 | 7/26/05 17:45 | 13.94 | 15.57 | 14.41 | 14.51 | 13.92 | |
| 3299 | 7/26/05 18:00 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3300 | 7/26/05 18:15 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3301 | 7/26/05 18:30 | 13.94 | 15.57 | 14.41 | 14.51 | 14.07 | |
| 3302 | 7/26/05 18:45 | 13.94 | 15.57 | 14.41 | 14.35 | 13.92 | |
| 3303 | 7/26/05 19:00 | 14.1 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3304 | 7/26/05 19:15 | 14.1 | 15.57 | 14.41 | 14.19 | 14.07 | |
| 3305 | 7/26/05 19:30 | 14.26 | 15.57 | 14.41 | 14.19 | 14.07 | |
| 3306 | 7/26/05 19:45 | 14.57 | 15.57 | 14.41 | 14.19 | 13.92 | |
| 3307 | 7/26/05 20:00 | 14.41 | 15.57 | 14.41 | 14.19 | 14.07 | |
| 3308 | 7/26/05 20:15 | 14.26 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3309 | 7/26/05 20:30 | 14.26 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3310 | 7/26/05 20:45 | 14.1 | 15.57 | 14.26 | 14.35 | 14.23 | |
| 3311 | 7/26/05 21:00 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3312 | 7/26/05 21:15 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3313 | 7/26/05 21:30 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3314 | 7/26/05 21:45 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3315 | 7/26/05 22:00 | 14.1 | 15.57 | 14.26 | 14.19 | 14.23 | |
| 3316 | 7/26/05 22:15 | 14.1 | 15.73 | 14.26 | 14.35 | 14.23 | |
| 3317 | 7/26/05 22:30 | 13.94 | 15.73 | 14.26 | 14.51 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3318 | 7/26/05 22:45 | 13.94 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3319 | 7/26/05 23:00 | 13.94 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3320 | 7/26/05 23:15 | 13.94 | 15.73 | 14.26 | 14.67 | 14.07 | |
| 3321 | 7/26/05 23:30 | 13.94 | 15.73 | 14.26 | 14.67 | 14.07 | |
| 3322 | 7/26/05 23:45 | 13.94 | 16.04 | 14.26 | 14.51 | 14.07 | |
| 3323 | 7/27/05 0:00 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3324 | 7/27/05 0:15 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3325 | 7/27/05 0:30 | 13.79 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3326 | 7/27/05 0:45 | 13.79 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3327 | 7/27/05 1:00 | 13.79 | 15.73 | 14.26 | 14.67 | 14.07 | |
| 3328 | 7/27/05 1:15 | 13.79 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3329 | 7/27/05 1:30 | 13.79 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3330 | 7/27/05 1:45 | 13.79 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3331 | 7/27/05 2:00 | 13.79 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3332 | 7/27/05 2:15 | 13.79 | 15.57 | 14.41 | 14.51 | 14.07 | |
| 3333 | 7/27/05 2:30 | 13.79 | 15.57 | 14.41 | 14.51 | 14.07 | |
| 3334 | 7/27/05 2:45 | 13.79 | 15.57 | 14.41 | 14.67 | 14.07 | |
| 3335 | 7/27/05 3:00 | 13.79 | 15.57 | 14.41 | 14.67 | 14.07 | |
| 3336 | 7/27/05 3:15 | 13.79 | 15.73 | 14.41 | 14.67 | 14.07 | |
| 3337 | 7/27/05 3:30 | 13.79 | 15.73 | 14.41 | 14.67 | 14.07 | |
| 3338 | 7/27/05 3:45 | 13.94 | 15.73 | 14.57 | 14.67 | 14.23 | |
| 3339 | 7/27/05 4:00 | 13.94 | 15.73 | 14.57 | 14.82 | 14.23 | |
| 3340 | 7/27/05 4:15 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3341 | 7/27/05 4:30 | 13.94 | 15.89 | 14.41 | 14.82 | 14.23 | |
| 3342 | 7/27/05 4:45 | 14.1 | 15.89 | 14.41 | 14.82 | 14.23 | |
| 3343 | 7/27/05 5:00 | 14.26 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3344 | 7/27/05 5:15 | 14.26 | 15.89 | 14.41 | 14.67 | 14.07 | |
| 3345 | 7/27/05 5:30 | 14.1 | 15.73 | 14.57 | 14.67 | 14.07 | |
| 3346 | 7/27/05 5:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.07 | |
| 3347 | 7/27/05 6:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.07 | |
| 3348 | 7/27/05 6:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3349 | 7/27/05 6:30 | 14.1 | 15.73 | 14.57 | 14.67 | 13.92 | |
| 3350 | 7/27/05 6:45 | 14.1 | 15.73 | 14.73 | 14.67 | 13.92 | |
| 3351 | 7/27/05 7:00 | 14.1 | 15.89 | 14.73 | 14.51 | 13.92 | |
| 3352 | 7/27/05 7:15 | 14.1 | 15.89 | 14.73 | 14.35 | 13.92 | |
| 3353 | 7/27/05 7:30 | 13.94 | 15.73 | 14.73 | 14.35 | 13.92 | |
| 3354 | 7/27/05 7:45 | 13.94 | 15.73 | 14.73 | 14.35 | 13.92 | |
| 3355 | 7/27/05 8:00 | 13.94 | 15.73 | 14.57 | 14.35 | 13.92 | |
| 3356 | 7/27/05 8:15 | 13.94 | 15.73 | 14.41 | 14.19 | 13.92 | |
| 3357 | 7/27/05 8:30 | 14.88 | 15.73 | 14.41 | 14.19 | 13.92 | |
| 3358 | 7/27/05 8:45 | 15.36 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3359 | 7/27/05 9:00 | 14.57 | 15.73 | 14.26 | 14.19 | 13.92 | |
| 3360 | 7/27/05 9:15 | 14.57 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3361 | 7/27/05 9:30 | 14.41 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3362 | 7/27/05 9:45 | 14.41 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3363 | 7/27/05 10:00 | 14.26 | 15.73 | 14.26 | 14.19 | 14.07 | |
| 3364 | 7/27/05 10:15 | 14.26 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3365 | 7/27/05 10:30 | 14.26 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3366 | 7/27/05 10:45 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3367 | 7/27/05 11:00 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3368 | 7/27/05 11:15 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3369 | 7/27/05 11:30 | 14.1 | 15.57 | 14.26 | 14.19 | 14.07 | |
| 3370 | 7/27/05 11:45 | 14.1 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3371 | 7/27/05 12:00 | 14.1 | 15.57 | 14.26 | 14.51 | 14.07 | |
| 3372 | 7/27/05 12:15 | 14.1 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3373 | 7/27/05 12:30 | 13.79 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3374 | 7/27/05 12:45 | 13.79 | 15.57 | 14.26 | 14.35 | 14.07 | |
| 3375 | 7/27/05 13:00 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3376 | 7/27/05 13:15 | 13.79 | 15.89 | 14.26 | 14.35 | 14.07 | |
| 3377 | 7/27/05 13:30 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3378 | 7/27/05 13:45 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3379 | 7/27/05 14:00 | 13.79 | 15.73 | 14.26 | 14.35 | 14.07 | |
| 3380 | 7/27/05 14:15 | 13.79 | 15.89 | 14.26 | 14.51 | 14.07 | |
| 3381 | 7/27/05 14:30 | 13.94 | 15.89 | 14.26 | 14.51 | 14.07 | |
| 3382 | 7/27/05 14:45 | 13.94 | 15.89 | 14.26 | 14.51 | 14.07 | |
| 3383 | 7/27/05 15:00 | 13.94 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3384 | 7/27/05 15:15 | 13.94 | 16.04 | 14.41 | 14.51 | 14.07 | |
| 3385 | 7/27/05 15:30 | 13.94 | 16.04 | 14.41 | 14.51 | 14.07 | |
| 3386 | 7/27/05 15:45 | 13.94 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3387 | 7/27/05 16:00 | 13.94 | 15.89 | 14.41 | 14.67 | 14.07 | |
| 3388 | 7/27/05 16:15 | 14.1 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3389 | 7/27/05 16:30 | 14.1 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3390 | 7/27/05 16:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.07 | |
| 3391 | 7/27/05 17:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.07 | |
| 3392 | 7/27/05 17:15 | 14.1 | 15.89 | 14.57 | 14.98 | 14.23 | |
| 3393 | 7/27/05 17:30 | 14.1 | 15.89 | 14.57 | 14.98 | 14.23 | |
| 3394 | 7/27/05 17:45 | 14.1 | 15.89 | 14.57 | 14.98 | 14.23 | |
| 3395 | 7/27/05 18:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3396 | 7/27/05 18:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3397 | 7/27/05 18:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3398 | 7/27/05 18:45 | 13.94 | 15.89 | 14.73 | 14.67 | 14.07 | |
| 3399 | 7/27/05 19:00 | 13.94 | 15.89 | 14.88 | 14.67 | 13.92 | |
| 3400 | 7/27/05 19:15 | 13.94 | 15.89 | 14.88 | 14.67 | 14.07 | |
| 3401 | 7/27/05 19:30 | 13.94 | 15.89 | 14.88 | 14.67 | 14.07 | |
| 3402 | 7/27/05 19:45 | 13.94 | 15.89 | 14.88 | 14.67 | 14.07 | |
| 3403 | 7/27/05 20:00 | 13.94 | 15.89 | 14.73 | 14.67 | 14.07 | |
| 3404 | 7/27/05 20:15 | 14.1 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3405 | 7/27/05 20:30 | 14.57 | 15.89 | 14.88 | 14.51 | 14.07 | |
| 3406 | 7/27/05 20:45 | 14.72 | 15.73 | 14.73 | 14.51 | 14.07 | |
| 3407 | 7/27/05 21:00 | 14.57 | 15.73 | 14.73 | 14.51 | 14.07 | |
| 3408 | 7/27/05 21:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.07 | |
| 3409 | 7/27/05 21:30 | 14.41 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3410 | 7/27/05 21:45 | 14.26 | 15.73 | 14.41 | 14.67 | 14.07 | |
| 3411 | 7/27/05 22:00 | 13.94 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3412 | 7/27/05 22:15 | 13.94 | 15.89 | 14.57 | 14.51 | 14.07 | |
| 3413 | 7/27/05 22:30 | 13.94 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3414 | 7/27/05 22:45 | 13.94 | 15.89 | 14.57 | 14.51 | 14.07 | |
| 3415 | 7/27/05 23:00 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3416 | 7/27/05 23:15 | 14.1 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3417 | 7/27/05 23:30 | 14.1 | 15.89 | 14.41 | 14.19 | 14.23 | |
| 3418 | 7/27/05 23:45 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3419 | 7/28/05 0:00 | 13.94 | 15.89 | 14.41 | 14.35 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3420 | 7/28/05 0:15 | 13.94 | 15.89 | 14.26 | 14.35 | 14.23 | |
| 3421 | 7/28/05 0:30 | 13.94 | 15.89 | 14.26 | 14.35 | 14.23 | |
| 3422 | 7/28/05 0:45 | 13.94 | 15.89 | 14.26 | 14.35 | 14.07 | |
| 3423 | 7/28/05 1:00 | 13.94 | 15.89 | 14.41 | 14.19 | 14.07 | |
| 3424 | 7/28/05 1:15 | 13.94 | 15.89 | 14.41 | 14.19 | 14.07 | |
| 3425 | 7/28/05 1:30 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3426 | 7/28/05 1:45 | 13.79 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3427 | 7/28/05 2:00 | 13.94 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3428 | 7/28/05 2:15 | 13.94 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 3429 | 7/28/05 2:30 | 13.79 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3430 | 7/28/05 2:45 | 13.79 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3431 | 7/28/05 3:00 | 13.79 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 3432 | 7/28/05 3:15 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3433 | 7/28/05 3:30 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3434 | 7/28/05 3:45 | 13.94 | 15.89 | 14.57 | 14.98 | 14.23 | |
| 3435 | 7/28/05 4:00 | 14.1 | 15.89 | 14.57 | 14.98 | 14.23 | |
| 3436 | 7/28/05 4:15 | 14.1 | 15.89 | 14.57 | 14.98 | 14.07 | |
| 3437 | 7/28/05 4:30 | 14.1 | 15.89 | 14.57 | 14.98 | 14.07 | |
| 3438 | 7/28/05 4:45 | 14.1 | 15.73 | 14.57 | 14.98 | 14.23 | |
| 3439 | 7/28/05 5:00 | 14.1 | 15.73 | 14.57 | 14.98 | 14.23 | |
| 3440 | 7/28/05 5:15 | 14.1 | 15.73 | 14.57 | 14.82 | 14.23 | |
| 3441 | 7/28/05 5:30 | 14.1 | 15.73 | 14.57 | 14.98 | 14.23 | |
| 3442 | 7/28/05 5:45 | 14.1 | 15.73 | 14.57 | 14.82 | 14.07 | |
| 3443 | 7/28/05 6:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.07 | |
| 3444 | 7/28/05 6:15 | 14.1 | 15.73 | 14.57 | 14.82 | 14.07 | |
| 3445 | 7/28/05 6:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3446 | 7/28/05 6:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3447 | 7/28/05 7:00 | 14.26 | 15.89 | 14.73 | 14.98 | 14.07 | |
| 3448 | 7/28/05 7:15 | 14.26 | 15.73 | 14.73 | 14.98 | 14.07 | |
| 3449 | 7/28/05 7:30 | 14.26 | 15.73 | 14.73 | 14.98 | 14.07 | |
| 3450 | 7/28/05 7:45 | 14.26 | 15.89 | 14.73 | 14.98 | 14.07 | |
| 3451 | 7/28/05 8:00 | 14.26 | 15.89 | 14.73 | 14.98 | 14.07 | |
| 3452 | 7/28/05 8:15 | 14.1 | 15.73 | 14.88 | 14.82 | 14.07 | |
| 3453 | 7/28/05 8:30 | 14.1 | 15.73 | 14.88 | 14.82 | 14.07 | |
| 3454 | 7/28/05 8:45 | 15.36 | 15.73 | 14.88 | 14.67 | 14.07 | |
| 3455 | 7/28/05 9:00 | 15.36 | 15.73 | 14.88 | 14.67 | 14.07 | |
| 3456 | 7/28/05 9:15 | 15.36 | 15.73 | 14.73 | 14.51 | 14.07 | |
| 3457 | 7/28/05 9:30 | 15.36 | 15.73 | 14.73 | 14.51 | 14.07 | |
| 3458 | 7/28/05 9:45 | 15.19 | 15.73 | 14.57 | 14.51 | 14.07 | |
| 3459 | 7/28/05 10:00 | 15.04 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3460 | 7/28/05 10:15 | 14.88 | 15.73 | 14.26 | 14.51 | 14.07 | |
| 3461 | 7/28/05 10:30 | 14.72 | 15.73 | 14.41 | 14.51 | 14.23 | |
| 3462 | 7/28/05 10:45 | 14.72 | 15.73 | 14.57 | 14.51 | 14.07 | |
| 3463 | 7/28/05 11:00 | 14.72 | 15.73 | 14.57 | 14.51 | 14.07 | |
| 3464 | 7/28/05 11:15 | 14.72 | 15.73 | 14.57 | 14.51 | 14.23 | |
| 3465 | 7/28/05 11:30 | 14.57 | 15.73 | 14.57 | 14.35 | 14.23 | |
| 3466 | 7/28/05 11:45 | 14.26 | 15.73 | 14.57 | 14.35 | 14.23 | |
| 3467 | 7/28/05 12:00 | 14.26 | 15.73 | 14.57 | 14.35 | 14.07 | |
| 3468 | 7/28/05 12:15 | 14.26 | 15.73 | 14.57 | 14.35 | 14.07 | |
| 3469 | 7/28/05 12:30 | 14.26 | 15.73 | 14.57 | 14.35 | 14.07 | |
| 3470 | 7/28/05 12:45 | 14.26 | 15.73 | 14.57 | 14.35 | 14.07 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3471 | 7/28/05 13:00 | 14.26 | 15.73 | 14.41 | 14.35 | 14.07 | |
| 3472 | 7/28/05 13:15 | 14.26 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3473 | 7/28/05 13:30 | 14.26 | 15.73 | 14.41 | 14.67 | 14.07 | |
| 3474 | 7/28/05 13:45 | 14.26 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3475 | 7/28/05 14:00 | 14.26 | 15.73 | 14.41 | 14.51 | 14.23 | |
| 3476 | 7/28/05 14:15 | 14.26 | 15.73 | 14.41 | 14.51 | 14.07 | |
| 3477 | 7/28/05 14:30 | 14.26 | 15.89 | 14.26 | 14.67 | 14.07 | |
| 3478 | 7/28/05 14:45 | 14.26 | 15.73 | 14.41 | 14.67 | 14.07 | |
| 3479 | 7/28/05 15:00 | 14.26 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3480 | 7/28/05 15:15 | 14.26 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3481 | 7/28/05 15:30 | 14.26 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3482 | 7/28/05 15:45 | 14.26 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3483 | 7/28/05 16:00 | 14.1 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3484 | 7/28/05 16:15 | 14.1 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3485 | 7/28/05 16:30 | 14.1 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3486 | 7/28/05 16:45 | 14.1 | 15.89 | 14.26 | 14.98 | 14.23 | |
| 3487 | 7/28/05 17:00 | 14.1 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3488 | 7/28/05 17:15 | 14.1 | 15.89 | 14.41 | 14.98 | 14.07 | |
| 3489 | 7/28/05 17:30 | 14.1 | 15.89 | 14.57 | 14.98 | 14.07 | |
| 3490 | 7/28/05 17:45 | 14.1 | 15.89 | 14.57 | 14.98 | 14.07 | |
| 3491 | 7/28/05 18:00 | 14.26 | 15.89 | 14.73 | 14.98 | 14.07 | |
| 3492 | 7/28/05 18:15 | 14.26 | 15.89 | 14.73 | 14.98 | 14.07 | |
| 3493 | 7/28/05 18:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3494 | 7/28/05 18:45 | 14.41 | 15.89 | 14.57 | 14.82 | 14.07 | |
| 3495 | 7/28/05 19:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3496 | 7/28/05 19:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3497 | 7/28/05 19:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.07 | |
| 3498 | 7/28/05 19:45 | 14.41 | 15.89 | 14.57 | 14.51 | 14.07 | |
| 3499 | 7/28/05 20:00 | 14.41 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3500 | 7/28/05 20:15 | 14.41 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3501 | 7/28/05 20:30 | 14.26 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3502 | 7/28/05 20:45 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3503 | 7/28/05 21:00 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3504 | 7/28/05 21:15 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3505 | 7/28/05 21:30 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3506 | 7/28/05 21:45 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3507 | 7/28/05 22:00 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3508 | 7/28/05 22:15 | 14.1 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3509 | 7/28/05 22:30 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3510 | 7/28/05 22:45 | 14.1 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3511 | 7/28/05 23:00 | 14.1 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3512 | 7/28/05 23:15 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3513 | 7/28/05 23:30 | 13.94 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3514 | 7/28/05 23:45 | 14.1 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3515 | 7/29/05 0:00 | 14.1 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3516 | 7/29/05 0:15 | 14.1 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3517 | 7/29/05 0:30 | 14.1 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3518 | 7/29/05 0:45 | 14.26 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3519 | 7/29/05 1:00 | 14.1 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3520 | 7/29/05 1:15 | 13.94 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3521 | 7/29/05 1:30 | 13.79 | 15.89 | 14.57 | 14.35 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3522 | 7/29/05 1:45 | 13.79 | 15.89 | 14.73 | 14.35 | 14.23 | |
| 3523 | 7/29/05 2:00 | 13.79 | 15.89 | 14.73 | 14.35 | 14.23 | |
| 3524 | 7/29/05 2:15 | 13.79 | 15.89 | 14.73 | 14.35 | 14.23 | |
| 3525 | 7/29/05 2:30 | 13.94 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3526 | 7/29/05 2:45 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3527 | 7/29/05 3:00 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3528 | 7/29/05 3:15 | 13.94 | 15.89 | 14.41 | 14.35 | 14.07 | |
| 3529 | 7/29/05 3:30 | 13.94 | 15.89 | 14.41 | 14.35 | 14.07 | |
| 3530 | 7/29/05 3:45 | 13.94 | 15.89 | 14.57 | 14.51 | 14.07 | |
| 3531 | 7/29/05 4:00 | 13.94 | 15.89 | 14.41 | 14.51 | 14.07 | |
| 3532 | 7/29/05 4:15 | 13.94 | 15.89 | 14.41 | 14.67 | 14.07 | |
| 3533 | 7/29/05 4:30 | 13.94 | 15.89 | 14.41 | 14.67 | 14.07 | |
| 3534 | 7/29/05 4:45 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3535 | 7/29/05 5:00 | 13.94 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 3536 | 7/29/05 5:15 | 13.94 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 3537 | 7/29/05 5:30 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3538 | 7/29/05 5:45 | 13.94 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 3539 | 7/29/05 6:00 | 13.94 | 15.89 | 14.73 | 14.82 | 14.23 | |
| 3540 | 7/29/05 6:15 | 13.94 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3541 | 7/29/05 6:30 | 13.94 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3542 | 7/29/05 6:45 | 14.1 | 16.04 | 14.73 | 14.82 | 14.07 | |
| 3543 | 7/29/05 7:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3544 | 7/29/05 7:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3545 | 7/29/05 7:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3546 | 7/29/05 7:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.07 | |
| 3547 | 7/29/05 8:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.07 | |
| 3548 | 7/29/05 8:15 | 14.41 | 16.04 | 14.88 | 14.67 | 14.07 | |
| 3549 | 7/29/05 8:30 | 14.26 | 16.04 | 14.88 | 14.82 | 14.07 | |
| 3550 | 7/29/05 8:45 | 14.26 | 16.04 | 14.88 | 14.67 | 14.07 | |
| 3551 | 7/29/05 9:00 | 14.26 | 16.04 | 14.88 | 14.67 | 14.07 | |
| 3552 | 7/29/05 9:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.07 | |
| 3553 | 7/29/05 9:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.07 | |
| 3554 | 7/29/05 9:45 | 15.19 | 15.89 | 14.73 | 14.51 | 14.07 | |
| 3555 | 7/29/05 10:00 | 15.19 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 3556 | 7/29/05 10:15 | 15.04 | 16.04 | 14.73 | 14.35 | 14.07 | |
| 3557 | 7/29/05 10:30 | 15.04 | 15.89 | 14.41 | 14.35 | 14.07 | |
| 3558 | 7/29/05 10:45 | 14.88 | 16.04 | 14.41 | 14.51 | 14.07 | |
| 3559 | 7/29/05 11:00 | 14.72 | 15.89 | 14.57 | 14.35 | 14.07 | |
| 3560 | 7/29/05 11:15 | 14.72 | 15.89 | 14.41 | 14.35 | 14.07 | |
| 3561 | 7/29/05 11:30 | 14.72 | 15.89 | 14.57 | 14.35 | 14.07 | |
| 3562 | 7/29/05 11:45 | 14.72 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 3563 | 7/29/05 12:00 | 14.41 | 15.89 | 14.73 | 14.35 | 14.23 | |
| 3564 | 7/29/05 12:15 | 14.26 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3565 | 7/29/05 12:30 | 13.94 | 15.89 | 14.57 | 14.19 | 14.23 | |
| 3566 | 7/29/05 12:45 | 13.94 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3567 | 7/29/05 13:00 | 14.1 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3568 | 7/29/05 13:15 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3569 | 7/29/05 13:30 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3570 | 7/29/05 13:45 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3571 | 7/29/05 14:00 | 14.26 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3572 | 7/29/05 14:15 | 14.26 | 15.89 | 14.41 | 14.51 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3573 | 7/29/05 14:30 | 14.26 | 15.89 | 14.41 | 14.67 | 14.23 | |
| 3574 | 7/29/05 14:45 | 14.26 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3575 | 7/29/05 15:00 | 14.26 | 15.89 | 14.41 | 14.82 | 14.07 | |
| 3576 | 7/29/05 15:15 | 14.26 | 15.89 | 14.41 | 14.67 | 14.07 | |
| 3577 | 7/29/05 15:30 | 14.41 | 16.04 | 14.41 | 14.82 | 14.07 | |
| 3578 | 7/29/05 15:45 | 14.26 | 16.04 | 14.41 | 14.82 | 14.07 | |
| 3579 | 7/29/05 16:00 | 14.26 | 16.04 | 14.41 | 14.82 | 14.07 | |
| 3580 | 7/29/05 16:15 | 14.26 | 16.04 | 14.41 | 14.82 | 14.07 | |
| 3581 | 7/29/05 16:30 | 14.26 | 16.21 | 14.41 | 14.67 | 14.07 | |
| 3582 | 7/29/05 16:45 | 14.26 | 16.04 | 14.41 | 14.67 | 14.07 | |
| 3583 | 7/29/05 17:00 | 14.41 | 16.04 | 14.41 | 14.67 | 14.07 | |
| 3584 | 7/29/05 17:15 | 14.41 | 16.04 | 14.41 | 14.67 | 14.07 | |
| 3585 | 7/29/05 17:30 | 14.41 | 16.21 | 14.41 | 14.67 | 14.07 | |
| 3586 | 7/29/05 17:45 | 14.41 | 16.21 | 14.41 | 14.82 | 14.07 | |
| 3587 | 7/29/05 18:00 | 14.41 | 16.21 | 14.41 | 14.67 | 14.07 | |
| 3588 | 7/29/05 18:15 | 14.41 | 16.21 | 14.41 | 14.82 | 14.23 | |
| 3589 | 7/29/05 18:30 | 14.41 | 16.21 | 14.41 | 14.82 | 14.07 | |
| 3590 | 7/29/05 18:45 | 14.41 | 16.21 | 14.57 | 14.82 | 14.07 | |
| 3591 | 7/29/05 19:00 | 14.41 | 16.21 | 14.57 | 14.82 | 14.07 | |
| 3592 | 7/29/05 19:15 | 14.41 | 16.21 | 14.57 | 14.82 | 14.07 | |
| 3593 | 7/29/05 19:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.07 | |
| 3594 | 7/29/05 19:45 | 14.41 | 16.04 | 14.57 | 14.82 | 14.07 | |
| 3595 | 7/29/05 20:00 | 14.41 | 16.04 | 14.57 | 14.67 | 14.07 | |
| 3596 | 7/29/05 20:15 | 14.41 | 16.04 | 14.57 | 14.67 | 14.07 | |
| 3597 | 7/29/05 20:30 | 14.57 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 3598 | 7/29/05 20:45 | 14.57 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 3599 | 7/29/05 21:00 | 14.57 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 3600 | 7/29/05 21:15 | 14.41 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 3601 | 7/29/05 21:30 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 3602 | 7/29/05 21:45 | 14.26 | 16.04 | 14.73 | 14.51 | 14.23 | |
| 3603 | 7/29/05 22:00 | 14.26 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3604 | 7/29/05 22:15 | 14.26 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3605 | 7/29/05 22:30 | 14.26 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3606 | 7/29/05 22:45 | 14.26 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3607 | 7/29/05 23:00 | 14.1 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3608 | 7/29/05 23:15 | 14.1 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3609 | 7/29/05 23:30 | 14.1 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3610 | 7/29/05 23:45 | 14.1 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3611 | 7/30/05 0:00 | 14.1 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3612 | 7/30/05 0:15 | 14.1 | 16.21 | 14.57 | 14.19 | 14.23 | |
| 3613 | 7/30/05 0:30 | 14.1 | 16.21 | 14.57 | 14.19 | 14.23 | |
| 3614 | 7/30/05 0:45 | 14.1 | 16.21 | 14.57 | 14.19 | 14.23 | |
| 3615 | 7/30/05 1:00 | 14.1 | 16.21 | 14.73 | 14.19 | 14.23 | |
| 3616 | 7/30/05 1:15 | 14.1 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3617 | 7/30/05 1:30 | 14.1 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3618 | 7/30/05 1:45 | 14.1 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3619 | 7/30/05 2:00 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3620 | 7/30/05 2:15 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3621 | 7/30/05 2:30 | 13.79 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3622 | 7/30/05 2:45 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3623 | 7/30/05 3:00 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3624 | 7/30/05 3:15 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3625 | 7/30/05 3:30 | 13.94 | 16.04 | 14.41 | 14.51 | 14.23 | |
| 3626 | 7/30/05 3:45 | 13.94 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3627 | 7/30/05 4:00 | 13.94 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3628 | 7/30/05 4:15 | 13.94 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3629 | 7/30/05 4:30 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3630 | 7/30/05 4:45 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3631 | 7/30/05 5:00 | 13.94 | 16.52 | 14.41 | 14.51 | 14.23 | |
| 3632 | 7/30/05 5:15 | 13.94 | 16.52 | 14.41 | 14.51 | 14.23 | |
| 3633 | 7/30/05 5:30 | 13.94 | 16.52 | 14.41 | 14.51 | 14.23 | |
| 3634 | 7/30/05 5:45 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3635 | 7/30/05 6:00 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3636 | 7/30/05 6:15 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3637 | 7/30/05 6:30 | 13.94 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3638 | 7/30/05 6:45 | 13.94 | 16.36 | 14.41 | 14.67 | 14.23 | |
| 3639 | 7/30/05 7:00 | 14.1 | 16.68 | 14.41 | 14.51 | 14.23 | |
| 3640 | 7/30/05 7:15 | 14.1 | 16.52 | 14.41 | 14.51 | 14.23 | |
| 3641 | 7/30/05 7:30 | 14.26 | 16.68 | 14.41 | 14.67 | 14.23 | |
| 3642 | 7/30/05 7:45 | 14.26 | 16.52 | 14.41 | 14.67 | 14.23 | |
| 3643 | 7/30/05 8:00 | 14.26 | 16.52 | 14.57 | 14.67 | 14.23 | |
| 3644 | 7/30/05 8:15 | 14.41 | 16.52 | 14.57 | 14.67 | 14.23 | |
| 3645 | 7/30/05 8:30 | 14.41 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3646 | 7/30/05 8:45 | 14.41 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3647 | 7/30/05 9:00 | 14.41 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3648 | 7/30/05 9:15 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3649 | 7/30/05 9:30 | 14.41 | 16.04 | 14.73 | 14.51 | 14.23 | |
| 3650 | 7/30/05 9:45 | 14.26 | 16.04 | 14.73 | 14.51 | 14.23 | |
| 3651 | 7/30/05 10:00 | 14.41 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3652 | 7/30/05 10:15 | 15.83 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3653 | 7/30/05 10:30 | 15.99 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3654 | 7/30/05 10:45 | 15.67 | 15.89 | 14.57 | 14.35 | 14.38 | |
| 3655 | 7/30/05 11:00 | 15.36 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3656 | 7/30/05 11:15 | 15.19 | 16.04 | 14.57 | 14.35 | 14.23 | |
| 3657 | 7/30/05 11:30 | 15.19 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3658 | 7/30/05 11:45 | 15.04 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3659 | 7/30/05 12:00 | 14.88 | 16.04 | 14.73 | 14.19 | 14.23 | |
| 3660 | 7/30/05 12:15 | 14.88 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3661 | 7/30/05 12:30 | 14.57 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3662 | 7/30/05 12:45 | 14.72 | 16.04 | 14.73 | 14.35 | 14.23 | |
| 3663 | 7/30/05 13:00 | 14.41 | 15.89 | 14.57 | 14.35 | 14.23 | |
| 3664 | 7/30/05 13:15 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3665 | 7/30/05 13:30 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3666 | 7/30/05 13:45 | 14.26 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3667 | 7/30/05 14:00 | 14.26 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3668 | 7/30/05 14:15 | 14.41 | 15.89 | 14.41 | 14.35 | 14.23 | |
| 3669 | 7/30/05 14:30 | 14.41 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3670 | 7/30/05 14:45 | 14.26 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3671 | 7/30/05 15:00 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 3672 | 7/30/05 15:15 | 14.41 | 15.89 | 14.41 | 14.51 | 14.23 | |
| 3673 | 7/30/05 15:30 | 14.41 | 16.04 | 14.41 | 14.51 | 14.23 | |
| 3674 | 7/30/05 15:45 | 14.41 | 16.04 | 14.41 | 14.51 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3675 | 7/30/05 16:00 | 14.41 | 16.04 | 14.41 | 14.51 | 14.23 | |
| 3676 | 7/30/05 16:15 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3677 | 7/30/05 16:30 | 14.26 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3678 | 7/30/05 16:45 | 14.26 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3679 | 7/30/05 17:00 | 14.26 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3680 | 7/30/05 17:15 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3681 | 7/30/05 17:30 | 14.26 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3682 | 7/30/05 17:45 | 14.26 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3683 | 7/30/05 18:00 | 14.26 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3684 | 7/30/05 18:15 | 14.41 | 16.04 | 14.41 | 14.35 | 14.23 | |
| 3685 | 7/30/05 18:30 | 14.57 | 16.04 | 14.41 | 14.51 | 14.23 | |
| 3686 | 7/30/05 18:45 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3687 | 7/30/05 19:00 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3688 | 7/30/05 19:15 | 14.41 | 16.04 | 14.41 | 14.51 | 14.23 | |
| 3689 | 7/30/05 19:30 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3690 | 7/30/05 19:45 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3691 | 7/30/05 20:00 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3692 | 7/30/05 20:15 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3693 | 7/30/05 20:30 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3694 | 7/30/05 20:45 | 14.41 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3695 | 7/30/05 21:00 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3696 | 7/30/05 21:15 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3697 | 7/30/05 21:30 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3698 | 7/30/05 21:45 | 14.57 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3699 | 7/30/05 22:00 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3700 | 7/30/05 22:15 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3701 | 7/30/05 22:30 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3702 | 7/30/05 22:45 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3703 | 7/30/05 23:00 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3704 | 7/30/05 23:15 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3705 | 7/30/05 23:30 | 14.41 | 16.21 | 14.57 | 14.35 | 14.23 | |
| 3706 | 7/30/05 23:45 | 14.41 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3707 | 7/31/05 0:00 | 14.26 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3708 | 7/31/05 0:15 | 14.26 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3709 | 7/31/05 0:30 | 14.26 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3710 | 7/31/05 0:45 | 14.26 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3711 | 7/31/05 1:00 | 14.1 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3712 | 7/31/05 1:15 | 14.26 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3713 | 7/31/05 1:30 | 14.1 | 16.36 | 14.41 | 14.19 | 14.23 | |
| 3714 | 7/31/05 1:45 | 14.1 | 16.36 | 14.26 | 14.19 | 14.23 | |
| 3715 | 7/31/05 2:00 | 14.1 | 16.36 | 14.26 | 14.19 | 14.23 | |
| 3716 | 7/31/05 2:15 | 14.1 | 16.36 | 14.41 | 14.19 | 14.23 | |
| 3717 | 7/31/05 2:30 | 14.1 | 16.21 | 14.41 | 14.19 | 14.23 | |
| 3718 | 7/31/05 2:45 | 14.1 | 16.21 | 14.41 | 14.19 | 14.23 | |
| 3719 | 7/31/05 3:00 | 14.1 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3720 | 7/31/05 3:15 | 14.1 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3721 | 7/31/05 3:30 | 13.94 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3722 | 7/31/05 3:45 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3723 | 7/31/05 4:00 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3724 | 7/31/05 4:15 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3725 | 7/31/05 4:30 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3726 | 7/31/05 4:45 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3727 | 7/31/05 5:00 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3728 | 7/31/05 5:15 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3729 | 7/31/05 5:30 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3730 | 7/31/05 5:45 | 13.94 | 16.21 | 14.41 | 14.35 | 14.23 | |
| 3731 | 7/31/05 6:00 | 13.94 | 16.36 | 14.41 | 14.35 | 14.23 | |
| 3732 | 7/31/05 6:15 | 13.94 | 16.36 | 14.57 | 14.35 | 14.23 | |
| 3733 | 7/31/05 6:30 | 13.94 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3734 | 7/31/05 6:45 | 13.94 | 16.21 | 14.41 | 14.35 | 14.38 | |
| 3735 | 7/31/05 7:00 | 13.94 | 16.36 | 14.57 | 14.35 | 14.38 | |
| 3736 | 7/31/05 7:15 | 13.94 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3737 | 7/31/05 7:30 | 13.94 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3738 | 7/31/05 7:45 | 14.1 | 16.36 | 14.57 | 14.35 | 14.38 | |
| 3739 | 7/31/05 8:00 | 14.1 | 16.52 | 14.57 | 14.35 | 14.38 | |
| 3740 | 7/31/05 8:15 | 14.1 | 16.83 | 14.57 | 14.35 | 14.38 | |
| 3741 | 7/31/05 8:30 | 14.1 | 16.83 | 14.57 | 14.35 | 14.38 | |
| 3742 | 7/31/05 8:45 | 14.26 | 16.68 | 14.57 | 14.35 | 14.38 | |
| 3743 | 7/31/05 9:00 | 14.26 | 16.52 | 14.73 | 14.35 | 14.38 | |
| 3744 | 7/31/05 9:15 | 14.26 | 16.52 | 14.57 | 14.51 | 14.38 | |
| 3745 | 7/31/05 9:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3746 | 7/31/05 9:45 | 14.26 | 16.36 | 14.57 | 14.35 | 14.23 | |
| 3747 | 7/31/05 10:00 | 14.26 | 16.36 | 14.57 | 14.35 | 14.23 | |
| 3748 | 7/31/05 10:15 | 14.41 | 16.36 | 14.73 | 14.35 | 14.23 | |
| 3749 | 7/31/05 10:30 | 14.41 | 16.21 | 14.73 | 14.35 | 14.23 | |
| 3750 | 7/31/05 10:45 | 14.26 | 16.21 | 14.73 | 14.35 | 14.23 | |
| 3751 | 7/31/05 11:00 | 14.26 | 16.21 | 14.73 | 14.35 | 14.23 | |
| 3752 | 7/31/05 11:15 | 15.36 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3753 | 7/31/05 11:30 | 15.83 | 16.21 | 14.73 | 14.51 | 14.23 | |
| 3754 | 7/31/05 11:45 | 15.67 | 16.21 | 14.73 | 14.51 | 14.38 | |
| 3755 | 7/31/05 12:00 | 15.36 | 16.21 | 14.73 | 14.51 | 14.38 | |
| 3756 | 7/31/05 12:15 | 15.36 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3757 | 7/31/05 12:30 | 15.19 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3758 | 7/31/05 12:45 | 15.04 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3759 | 7/31/05 13:00 | 15.04 | 16.21 | 14.73 | 14.35 | 14.38 | |
| 3760 | 7/31/05 13:15 | 14.88 | 16.21 | 14.73 | 14.35 | 14.38 | |
| 3761 | 7/31/05 13:30 | 14.88 | 16.04 | 14.73 | 14.51 | 14.38 | |
| 3762 | 7/31/05 13:45 | 14.72 | 16.04 | 14.73 | 14.51 | 14.38 | |
| 3763 | 7/31/05 14:00 | 14.57 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3764 | 7/31/05 14:15 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3765 | 7/31/05 14:30 | 14.41 | 16.04 | 14.41 | 14.51 | 14.38 | |
| 3766 | 7/31/05 14:45 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3767 | 7/31/05 15:00 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3768 | 7/31/05 15:15 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3769 | 7/31/05 15:30 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3770 | 7/31/05 15:45 | 14.41 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3771 | 7/31/05 16:00 | 14.26 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3772 | 7/31/05 16:15 | 14.26 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 3773 | 7/31/05 16:30 | 14.41 | 16.36 | 14.41 | 14.67 | 14.23 | |
| 3774 | 7/31/05 16:45 | 14.41 | 16.36 | 14.41 | 14.67 | 14.23 | |
| 3775 | 7/31/05 17:00 | 14.26 | 16.36 | 14.41 | 14.67 | 14.23 | |
| 3776 | 7/31/05 17:15 | 14.26 | 16.36 | 14.41 | 14.51 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3777 | 7/31/05 17:30 | 14.26 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3778 | 7/31/05 17:45 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3779 | 7/31/05 18:00 | 14.26 | 16.36 | 14.41 | 14.35 | 14.38 | |
| 3780 | 7/31/05 18:15 | 14.26 | 16.36 | 14.41 | 14.35 | 14.38 | |
| 3781 | 7/31/05 18:30 | 14.26 | 16.36 | 14.41 | 14.35 | 14.38 | |
| 3782 | 7/31/05 18:45 | 14.26 | 16.21 | 14.41 | 14.35 | 14.38 | |
| 3783 | 7/31/05 19:00 | 14.26 | 16.21 | 14.41 | 14.35 | 14.38 | |
| 3784 | 7/31/05 19:15 | 14.26 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3785 | 7/31/05 19:30 | 14.26 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3786 | 7/31/05 19:45 | 14.26 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3787 | 7/31/05 20:00 | 14.26 | 16.21 | 14.57 | 14.35 | 14.38 | |
| 3788 | 7/31/05 20:15 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3789 | 7/31/05 20:30 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3790 | 7/31/05 20:45 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3791 | 7/31/05 21:00 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3792 | 7/31/05 21:15 | 14.26 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 3793 | 7/31/05 21:30 | 14.26 | 16.21 | 14.57 | 14.67 | 14.23 | |
| 3794 | 7/31/05 21:45 | 14.26 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 3795 | 7/31/05 22:00 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3796 | 7/31/05 22:15 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3797 | 7/31/05 22:30 | 14.1 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3798 | 7/31/05 22:45 | 14.1 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3799 | 7/31/05 23:00 | 14.1 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 3800 | 7/31/05 23:15 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3801 | 7/31/05 23:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3802 | 7/31/05 23:45 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3803 | 8/1/05 0:00 | 14.26 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3804 | 8/1/05 0:15 | 14.26 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3805 | 8/1/05 0:30 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3806 | 8/1/05 0:45 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3807 | 8/1/05 1:00 | 14.1 | 16.36 | 14.57 | 14.35 | 14.23 | |
| 3808 | 8/1/05 1:15 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3809 | 8/1/05 1:30 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3810 | 8/1/05 1:45 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3811 | 8/1/05 2:00 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3812 | 8/1/05 2:15 | 14.26 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3813 | 8/1/05 2:30 | 14.1 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3814 | 8/1/05 2:45 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3815 | 8/1/05 3:00 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3816 | 8/1/05 3:15 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3817 | 8/1/05 3:30 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3818 | 8/1/05 3:45 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3819 | 8/1/05 4:00 | 14.1 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3820 | 8/1/05 4:15 | 14.1 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3821 | 8/1/05 4:30 | 13.94 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3822 | 8/1/05 4:45 | 13.94 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3823 | 8/1/05 5:00 | 13.94 | 16.21 | 14.41 | 14.51 | 14.23 | |
| 3824 | 8/1/05 5:15 | 13.94 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3825 | 8/1/05 5:30 | 14.1 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 3826 | 8/1/05 5:45 | 14.1 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3827 | 8/1/05 6:00 | 14.1 | 16.36 | 14.41 | 14.51 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3828 | 8/1/05 6:15 | 14.1 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3829 | 8/1/05 6:30 | 13.94 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3830 | 8/1/05 6:45 | 13.94 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 3831 | 8/1/05 7:00 | 14.1 | 16.21 | 14.41 | 14.51 | 14.38 | |
| 3832 | 8/1/05 7:15 | 14.1 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3833 | 8/1/05 7:30 | 14.1 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3834 | 8/1/05 7:45 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3835 | 8/1/05 8:00 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3836 | 8/1/05 8:15 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3837 | 8/1/05 8:30 | 14.26 | 16.36 | 14.41 | 14.51 | 14.54 | |
| 3838 | 8/1/05 8:45 | 14.26 | 16.36 | 14.41 | 14.51 | 14.54 | |
| 3839 | 8/1/05 9:00 | 14.41 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3840 | 8/1/05 9:15 | 14.57 | 16.36 | 14.41 | 14.51 | 14.54 | |
| 3841 | 8/1/05 9:30 | 14.88 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3842 | 8/1/05 9:45 | 14.57 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3843 | 8/1/05 10:00 | 14.57 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3844 | 8/1/05 10:15 | 14.57 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3845 | 8/1/05 10:30 | 14.72 | 16.36 | 14.41 | 14.51 | 14.54 | |
| 3846 | 8/1/05 10:45 | 14.57 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3847 | 8/1/05 11:00 | 14.41 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3848 | 8/1/05 11:15 | 15.67 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3849 | 8/1/05 11:30 | 15.51 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3850 | 8/1/05 11:45 | 16.14 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3851 | 8/1/05 12:00 | 16.31 | 16.36 | 14.73 | 14.51 | 14.23 | |
| 3852 | 8/1/05 12:15 | 15.36 | 16.36 | 14.73 | 14.51 | 14.38 | |
| 3853 | 8/1/05 12:30 | 15.04 | 16.36 | 14.88 | 14.51 | 14.38 | |
| 3854 | 8/1/05 12:45 | 14.88 | 16.52 | 14.73 | 14.51 | 14.38 | |
| 3855 | 8/1/05 13:00 | 14.57 | 16.52 | 14.57 | 14.51 | 14.38 | |
| 3856 | 8/1/05 13:15 | 14.57 | 16.36 | 14.57 | 14.67 | 14.23 | |
| 3857 | 8/1/05 13:30 | 15.04 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3858 | 8/1/05 13:45 | 15.04 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3859 | 8/1/05 14:00 | 15.04 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 3860 | 8/1/05 14:15 | 14.88 | 16.21 | 14.41 | 14.51 | 14.54 | |
| 3861 | 8/1/05 14:30 | 14.88 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 3862 | 8/1/05 14:45 | 14.72 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3863 | 8/1/05 15:00 | 14.72 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3864 | 8/1/05 15:15 | 14.41 | 16.21 | 14.73 | 14.51 | 14.38 | |
| 3865 | 8/1/05 15:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3866 | 8/1/05 15:45 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3867 | 8/1/05 16:00 | 14.41 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3868 | 8/1/05 16:15 | 14.41 | 16.36 | 14.57 | 14.51 | 14.54 | |
| 3869 | 8/1/05 16:30 | 14.41 | 16.36 | 14.57 | 14.51 | 14.54 | |
| 3870 | 8/1/05 16:45 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3871 | 8/1/05 17:00 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3872 | 8/1/05 17:15 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3873 | 8/1/05 17:30 | 14.26 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3874 | 8/1/05 17:45 | 14.26 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3875 | 8/1/05 18:00 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3876 | 8/1/05 18:15 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3877 | 8/1/05 18:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3878 | 8/1/05 18:45 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3879 | 8/1/05 19:00 | 14.26 | 16.52 | 14.57 | 14.51 | 14.38 | |
| 3880 | 8/1/05 19:15 | 14.26 | 16.52 | 14.57 | 14.51 | 14.23 | |
| 3881 | 8/1/05 19:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3882 | 8/1/05 19:45 | 14.26 | 16.52 | 14.57 | 14.51 | 14.38 | |
| 3883 | 8/1/05 20:00 | 14.26 | 16.52 | 14.57 | 14.51 | 14.38 | |
| 3884 | 8/1/05 20:15 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3885 | 8/1/05 20:30 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3886 | 8/1/05 20:45 | 14.41 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3887 | 8/1/05 21:00 | 14.26 | 16.52 | 14.41 | 14.67 | 14.38 | |
| 3888 | 8/1/05 21:15 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3889 | 8/1/05 21:30 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3890 | 8/1/05 21:45 | 14.26 | 16.36 | 14.57 | 14.82 | 14.38 | |
| 3891 | 8/1/05 22:00 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3892 | 8/1/05 22:15 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3893 | 8/1/05 22:30 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3894 | 8/1/05 22:45 | 14.26 | 16.52 | 14.41 | 14.67 | 14.38 | |
| 3895 | 8/1/05 23:00 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3896 | 8/1/05 23:15 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3897 | 8/1/05 23:30 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3898 | 8/1/05 23:45 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3899 | 8/2/05 0:00 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3900 | 8/2/05 0:15 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3901 | 8/2/05 0:30 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3902 | 8/2/05 0:45 | 14.26 | 16.52 | 14.41 | 14.51 | 14.38 | |
| 3903 | 8/2/05 1:00 | 14.41 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3904 | 8/2/05 1:15 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3905 | 8/2/05 1:30 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3906 | 8/2/05 1:45 | 14.26 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3907 | 8/2/05 2:00 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3908 | 8/2/05 2:15 | 14.1 | 16.36 | 14.41 | 14.51 | 14.23 | |
| 3909 | 8/2/05 2:30 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3910 | 8/2/05 2:45 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3911 | 8/2/05 3:00 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3912 | 8/2/05 3:15 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3913 | 8/2/05 3:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3914 | 8/2/05 3:45 | 14.1 | 16.36 | 14.57 | 14.51 | 14.23 | |
| 3915 | 8/2/05 4:00 | 14.1 | 16.36 | 14.73 | 14.51 | 14.23 | |
| 3916 | 8/2/05 4:15 | 14.26 | 16.21 | 14.57 | 14.51 | 14.38 | |
| 3917 | 8/2/05 4:30 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3918 | 8/2/05 4:45 | 14.26 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3919 | 8/2/05 5:00 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3920 | 8/2/05 5:15 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3921 | 8/2/05 5:30 | 13.94 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3922 | 8/2/05 5:45 | 13.94 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3923 | 8/2/05 6:00 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3924 | 8/2/05 6:15 | 13.94 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3925 | 8/2/05 6:30 | 13.94 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3926 | 8/2/05 6:45 | 14.1 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3927 | 8/2/05 7:00 | 13.94 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3928 | 8/2/05 7:15 | 13.94 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3929 | 8/2/05 7:30 | 13.94 | 16.36 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3930 | 8/2/05 7:45 | 13.94 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3931 | 8/2/05 8:00 | 13.94 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3932 | 8/2/05 8:15 | 13.94 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3933 | 8/2/05 8:30 | 13.94 | 16.36 | 14.41 | 14.51 | 14.38 | |
| 3934 | 8/2/05 8:45 | 13.94 | 16.36 | 14.57 | 14.51 | 14.54 | |
| 3935 | 8/2/05 9:00 | 13.94 | 16.36 | 14.41 | 14.51 | 14.54 | |
| 3936 | 8/2/05 9:15 | 14.1 | 16.52 | 14.41 | 14.51 | 14.54 | |
| 3937 | 8/2/05 9:30 | 14.26 | 16.52 | 14.41 | 14.67 | 14.54 | |
| 3938 | 8/2/05 9:45 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3939 | 8/2/05 10:00 | 14.41 | 16.52 | 14.57 | 14.67 | 14.38 | |
| 3940 | 8/2/05 10:15 | 14.57 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3941 | 8/2/05 10:30 | 14.57 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3942 | 8/2/05 10:45 | 14.41 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3943 | 8/2/05 11:00 | 14.41 | 16.36 | 14.57 | 14.51 | 14.54 | |
| 3944 | 8/2/05 11:15 | 14.57 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3945 | 8/2/05 11:30 | 14.72 | 16.36 | 14.57 | 14.51 | 14.54 | |
| 3946 | 8/2/05 11:45 | 14.57 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3947 | 8/2/05 12:00 | 14.57 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3948 | 8/2/05 12:15 | 14.57 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3949 | 8/2/05 12:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3950 | 8/2/05 12:45 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3951 | 8/2/05 13:00 | 14.26 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 3952 | 8/2/05 13:15 | 15.04 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3953 | 8/2/05 13:30 | 15.67 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 3954 | 8/2/05 13:45 | 15.67 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3955 | 8/2/05 14:00 | 15.51 | 16.21 | 14.73 | 14.51 | 14.54 | |
| 3956 | 8/2/05 14:15 | 15.19 | 16.21 | 14.57 | 14.51 | 14.54 | |
| 3957 | 8/2/05 14:30 | 15.04 | 16.21 | 14.57 | 14.51 | 14.54 | |
| 3958 | 8/2/05 14:45 | 15.04 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3959 | 8/2/05 15:00 | 15.04 | 16.36 | 14.57 | 14.51 | 14.38 | |
| 3960 | 8/2/05 15:15 | 14.88 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 3961 | 8/2/05 15:30 | 14.88 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 3962 | 8/2/05 15:45 | 14.72 | 16.21 | 14.41 | 14.82 | 14.38 | |
| 3963 | 8/2/05 16:00 | 14.72 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 3964 | 8/2/05 16:15 | 14.57 | 16.21 | 14.57 | 14.82 | 14.54 | |
| 3965 | 8/2/05 16:30 | 14.57 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 3966 | 8/2/05 16:45 | 14.57 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 3967 | 8/2/05 17:00 | 14.57 | 16.52 | 14.41 | 14.67 | 14.54 | |
| 3968 | 8/2/05 17:15 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 3969 | 8/2/05 17:30 | 14.41 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3970 | 8/2/05 17:45 | 14.41 | 16.36 | 14.41 | 14.67 | 14.38 | |
| 3971 | 8/2/05 18:00 | 14.41 | 16.52 | 14.41 | 14.67 | 14.54 | |
| 3972 | 8/2/05 18:15 | 14.41 | 16.52 | 14.41 | 14.67 | 14.54 | |
| 3973 | 8/2/05 18:30 | 14.41 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3974 | 8/2/05 18:45 | 14.41 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3975 | 8/2/05 19:00 | 14.41 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3976 | 8/2/05 19:15 | 14.41 | 16.36 | 14.41 | 14.67 | 14.54 | |
| 3977 | 8/2/05 19:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 3978 | 8/2/05 19:45 | 14.41 | 16.52 | 14.41 | 14.67 | 14.54 | |
| 3979 | 8/2/05 20:00 | 14.41 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 3980 | 8/2/05 20:15 | 14.41 | 16.52 | 14.57 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 3981 | 8/2/05 20:30 | 14.41 | 16.52 | 14.41 | 14.98 | 14.54 | |
| 3982 | 8/2/05 20:45 | 14.41 | 16.52 | 14.57 | 14.98 | 14.54 | |
| 3983 | 8/2/05 21:00 | 14.26 | 16.52 | 14.41 | 15.14 | 14.54 | |
| 3984 | 8/2/05 21:15 | 14.41 | 16.52 | 14.41 | 14.98 | 14.54 | |
| 3985 | 8/2/05 21:30 | 14.41 | 16.52 | 14.41 | 14.98 | 14.54 | |
| 3986 | 8/2/05 21:45 | 14.41 | 16.52 | 14.57 | 14.98 | 14.54 | |
| 3987 | 8/2/05 22:00 | 14.41 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 3988 | 8/2/05 22:15 | 14.26 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 3989 | 8/2/05 22:30 | 14.26 | 16.68 | 14.57 | 14.98 | 14.54 | |
| 3990 | 8/2/05 22:45 | 14.26 | 16.52 | 14.57 | 14.98 | 14.54 | |
| 3991 | 8/2/05 23:00 | 14.26 | 16.52 | 14.57 | 14.98 | 14.54 | |
| 3992 | 8/2/05 23:15 | 14.41 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 3993 | 8/2/05 23:30 | 14.41 | 16.52 | 14.73 | 14.67 | 14.54 | |
| 3994 | 8/2/05 23:45 | 14.41 | 16.68 | 14.73 | 14.67 | 14.54 | |
| 3995 | 8/3/05 0:00 | 14.41 | 16.68 | 14.88 | 14.67 | 14.54 | |
| 3996 | 8/3/05 0:15 | 14.41 | 16.68 | 14.73 | 14.67 | 14.54 | |
| 3997 | 8/3/05 0:30 | 14.41 | 16.68 | 14.57 | 14.82 | 14.54 | |
| 3998 | 8/3/05 0:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 3999 | 8/3/05 1:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4000 | 8/3/05 1:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.38 | |
| 4001 | 8/3/05 1:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.38 | |
| 4002 | 8/3/05 1:45 | 14.41 | 16.52 | 14.73 | 14.67 | 14.38 | |
| 4003 | 8/3/05 2:00 | 14.26 | 16.52 | 14.73 | 14.82 | 14.38 | |
| 4004 | 8/3/05 2:15 | 14.26 | 16.52 | 14.73 | 14.67 | 14.38 | |
| 4005 | 8/3/05 2:30 | 14.26 | 16.36 | 14.88 | 14.67 | 14.38 | |
| 4006 | 8/3/05 2:45 | 14.26 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 4007 | 8/3/05 3:00 | 14.26 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 4008 | 8/3/05 3:15 | 14.26 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 4009 | 8/3/05 3:30 | 14.26 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 4010 | 8/3/05 3:45 | 14.26 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 4011 | 8/3/05 4:00 | 14.26 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 4012 | 8/3/05 4:15 | 14.26 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 4013 | 8/3/05 4:30 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4014 | 8/3/05 4:45 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4015 | 8/3/05 5:00 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4016 | 8/3/05 5:15 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4017 | 8/3/05 5:30 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4018 | 8/3/05 5:45 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4019 | 8/3/05 6:00 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4020 | 8/3/05 6:15 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4021 | 8/3/05 6:30 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4022 | 8/3/05 6:45 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4023 | 8/3/05 7:00 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4024 | 8/3/05 7:15 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4025 | 8/3/05 7:30 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4026 | 8/3/05 7:45 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4027 | 8/3/05 8:00 | 13.94 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4028 | 8/3/05 8:15 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4029 | 8/3/05 8:30 | 14.1 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 4030 | 8/3/05 8:45 | 14.1 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 4031 | 8/3/05 9:00 | 13.94 | 16.52 | 14.57 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4032 | 8/3/05 9:15 | 14.1 | 16.68 | 14.57 | 14.67 | 14.54 | |
| 4033 | 8/3/05 9:30 | 14.1 | 16.83 | 14.41 | 14.67 | 14.54 | |
| 4034 | 8/3/05 9:45 | 14.1 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 4035 | 8/3/05 10:00 | 14.1 | 16.68 | 14.57 | 14.67 | 14.54 | |
| 4036 | 8/3/05 10:15 | 14.1 | 16.68 | 14.57 | 14.67 | 14.54 | |
| 4037 | 8/3/05 10:30 | 14.1 | 16.68 | 14.57 | 14.82 | 14.54 | |
| 4038 | 8/3/05 10:45 | 14.41 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 4039 | 8/3/05 11:00 | 14.57 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 4040 | 8/3/05 11:15 | 14.57 | 16.52 | 14.57 | 14.82 | 14.7 | |
| 4041 | 8/3/05 11:30 | 14.57 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 4042 | 8/3/05 11:45 | 15.36 | 16.52 | 14.73 | 14.67 | 14.7 | |
| 4043 | 8/3/05 12:00 | 15.83 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4044 | 8/3/05 12:15 | 14.88 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4045 | 8/3/05 12:30 | 14.88 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4046 | 8/3/05 12:45 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4047 | 8/3/05 13:00 | 14.57 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4048 | 8/3/05 13:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4049 | 8/3/05 13:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4050 | 8/3/05 13:45 | 15.67 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4051 | 8/3/05 14:00 | 15.83 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4052 | 8/3/05 14:15 | 15.83 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4053 | 8/3/05 14:30 | 15.83 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4054 | 8/3/05 14:45 | 15.67 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4055 | 8/3/05 15:00 | 15.36 | 16.21 | 14.57 | 14.82 | 14.7 | |
| 4056 | 8/3/05 15:15 | 15.19 | 16.21 | 14.57 | 14.82 | 14.7 | |
| 4057 | 8/3/05 15:30 | 15.04 | 16.36 | 14.57 | 14.98 | 14.7 | |
| 4058 | 8/3/05 15:45 | 15.04 | 16.36 | 14.57 | 15.14 | 14.7 | |
| 4059 | 8/3/05 16:00 | 14.88 | 16.36 | 14.57 | 15.29 | 14.54 | |
| 4060 | 8/3/05 16:15 | 14.88 | 16.36 | 14.57 | 15.29 | 14.54 | |
| 4061 | 8/3/05 16:30 | 14.72 | 16.36 | 14.57 | 15.29 | 14.7 | |
| 4062 | 8/3/05 16:45 | 14.72 | 16.52 | 14.57 | 15.14 | 14.54 | |
| 4063 | 8/3/05 17:00 | 14.57 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4064 | 8/3/05 17:15 | 14.57 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4065 | 8/3/05 17:30 | 14.57 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4066 | 8/3/05 17:45 | 14.57 | 16.68 | 14.57 | 14.98 | 14.86 | |
| 4067 | 8/3/05 18:00 | 14.41 | 16.68 | 14.57 | 14.98 | 14.7 | |
| 4068 | 8/3/05 18:15 | 14.41 | 16.68 | 14.57 | 14.98 | 14.7 | |
| 4069 | 8/3/05 18:30 | 14.41 | 16.52 | 14.57 | 14.82 | 14.86 | |
| 4070 | 8/3/05 18:45 | 14.41 | 16.52 | 14.57 | 14.82 | 14.7 | |
| 4071 | 8/3/05 19:00 | 14.41 | 16.52 | 14.57 | 14.67 | 14.7 | |
| 4072 | 8/3/05 19:15 | 14.41 | 16.52 | 14.57 | 14.67 | 14.7 | |
| 4073 | 8/3/05 19:30 | 14.41 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4074 | 8/3/05 19:45 | 14.41 | 16.52 | 14.57 | 15.14 | 14.7 | |
| 4075 | 8/3/05 20:00 | 14.41 | 16.52 | 14.57 | 15.29 | 14.7 | |
| 4076 | 8/3/05 20:15 | 14.57 | 16.52 | 14.57 | 15.46 | 14.7 | |
| 4077 | 8/3/05 20:30 | 14.57 | 16.52 | 14.57 | 15.46 | 14.7 | |
| 4078 | 8/3/05 20:45 | 14.57 | 16.52 | 14.57 | 15.46 | 14.7 | |
| 4079 | 8/3/05 21:00 | 14.41 | 16.52 | 14.73 | 15.46 | 14.86 | |
| 4080 | 8/3/05 21:15 | 14.41 | 16.52 | 14.73 | 15.46 | 14.86 | |
| 4081 | 8/3/05 21:30 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4082 | 8/3/05 21:45 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4083 | 8/3/05 22:00 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4084 | 8/3/05 22:15 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4085 | 8/3/05 22:30 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4086 | 8/3/05 22:45 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4087 | 8/3/05 23:00 | 14.26 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4088 | 8/3/05 23:15 | 14.26 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4089 | 8/3/05 23:30 | 14.26 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4090 | 8/3/05 23:45 | 14.26 | 16.52 | 15.04 | 15.14 | 14.7 | |
| 4091 | 8/4/05 0:00 | 14.26 | 16.52 | 15.2 | 15.14 | 14.7 | |
| 4092 | 8/4/05 0:15 | 14.41 | 16.52 | 15.04 | 15.14 | 14.7 | |
| 4093 | 8/4/05 0:30 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4094 | 8/4/05 0:45 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4095 | 8/4/05 1:00 | 14.41 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4096 | 8/4/05 1:15 | 14.41 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4097 | 8/4/05 1:30 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4098 | 8/4/05 1:45 | 14.57 | 16.52 | 14.73 | 14.98 | 14.54 | |
| 4099 | 8/4/05 2:00 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 4100 | 8/4/05 2:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4101 | 8/4/05 2:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4102 | 8/4/05 2:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4103 | 8/4/05 3:00 | 14.26 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4104 | 8/4/05 3:15 | 14.26 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4105 | 8/4/05 3:30 | 14.26 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4106 | 8/4/05 3:45 | 14.26 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4107 | 8/4/05 4:00 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4108 | 8/4/05 4:15 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4109 | 8/4/05 4:30 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4110 | 8/4/05 4:45 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4111 | 8/4/05 5:00 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4112 | 8/4/05 5:15 | 14.26 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 4113 | 8/4/05 5:30 | 14.26 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4114 | 8/4/05 5:45 | 14.26 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4115 | 8/4/05 6:00 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4116 | 8/4/05 6:15 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 4117 | 8/4/05 6:30 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4118 | 8/4/05 6:45 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4119 | 8/4/05 7:00 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 4120 | 8/4/05 7:15 | 14.1 | 16.52 | 14.57 | 14.82 | 14.7 | |
| 4121 | 8/4/05 7:30 | 14.26 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4122 | 8/4/05 7:45 | 14.26 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 4123 | 8/4/05 8:00 | 14.26 | 16.52 | 14.57 | 14.82 | 14.7 | |
| 4124 | 8/4/05 8:15 | 14.26 | 16.52 | 14.57 | 14.82 | 14.7 | |
| 4125 | 8/4/05 8:30 | 14.1 | 16.68 | 14.57 | 14.82 | 14.7 | |
| 4126 | 8/4/05 8:45 | 14.1 | 16.68 | 14.57 | 14.82 | 14.7 | |
| 4127 | 8/4/05 9:00 | 14.1 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4128 | 8/4/05 9:15 | 14.26 | 16.68 | 14.57 | 14.67 | 14.7 | |
| 4129 | 8/4/05 9:30 | 14.26 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4130 | 8/4/05 9:45 | 14.26 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4131 | 8/4/05 10:00 | 14.26 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4132 | 8/4/05 10:15 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4133 | 8/4/05 10:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4134 | 8/4/05 10:45 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4135 | 8/4/05 11:00 | 14.26 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4136 | 8/4/05 11:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4137 | 8/4/05 11:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4138 | 8/4/05 11:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4139 | 8/4/05 12:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4140 | 8/4/05 12:15 | 14.57 | 16.52 | 14.88 | 14.67 | 14.7 | |
| 4141 | 8/4/05 12:30 | 14.88 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4142 | 8/4/05 12:45 | 14.88 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4143 | 8/4/05 13:00 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4144 | 8/4/05 13:15 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4145 | 8/4/05 13:30 | 14.72 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4146 | 8/4/05 13:45 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4147 | 8/4/05 14:00 | 14.41 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4148 | 8/4/05 14:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4149 | 8/4/05 14:30 | 15.51 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4150 | 8/4/05 14:45 | 15.67 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4151 | 8/4/05 15:00 | 15.83 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4152 | 8/4/05 15:15 | 15.67 | 16.36 | 14.73 | 14.67 | 14.7 | |
| 4153 | 8/4/05 15:30 | 15.36 | 16.36 | 14.88 | 14.67 | 14.7 | |
| 4154 | 8/4/05 15:45 | 15.19 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4155 | 8/4/05 16:00 | 15.04 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4156 | 8/4/05 16:15 | 14.88 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 4157 | 8/4/05 16:30 | 14.88 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 4158 | 8/4/05 16:45 | 14.88 | 16.36 | 14.73 | 14.98 | 14.7 | |
| 4159 | 8/4/05 17:00 | 14.88 | 16.36 | 14.73 | 15.14 | 14.7 | |
| 4160 | 8/4/05 17:15 | 14.72 | 16.36 | 14.73 | 15.14 | 14.7 | |
| 4161 | 8/4/05 17:30 | 14.72 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4162 | 8/4/05 17:45 | 14.72 | 16.52 | 14.73 | 15.14 | 14.86 | |
| 4163 | 8/4/05 18:00 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4164 | 8/4/05 18:15 | 14.72 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4165 | 8/4/05 18:30 | 14.57 | 16.52 | 14.73 | 15.14 | 14.86 | |
| 4166 | 8/4/05 18:45 | 14.57 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4167 | 8/4/05 19:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4168 | 8/4/05 19:15 | 14.57 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4169 | 8/4/05 19:30 | 14.57 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4170 | 8/4/05 19:45 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4171 | 8/4/05 20:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4172 | 8/4/05 20:15 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4173 | 8/4/05 20:30 | 14.57 | 16.36 | 14.73 | 14.98 | 14.7 | |
| 4174 | 8/4/05 20:45 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4175 | 8/4/05 21:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4176 | 8/4/05 21:15 | 14.57 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4177 | 8/4/05 21:30 | 14.57 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4178 | 8/4/05 21:45 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4179 | 8/4/05 22:00 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4180 | 8/4/05 22:15 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4181 | 8/4/05 22:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4182 | 8/4/05 22:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4183 | 8/4/05 23:00 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4184 | 8/4/05 23:15 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4185 | 8/4/05 23:30 | 14.26 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4186 | 8/4/05 23:45 | 14.26 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4187 | 8/5/05 0:00 | 14.41 | 16.68 | 15.04 | 15.29 | 14.7 | |
| 4188 | 8/5/05 0:15 | 14.41 | 16.68 | 15.04 | 15.29 | 14.7 | |
| 4189 | 8/5/05 0:30 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4190 | 8/5/05 0:45 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4191 | 8/5/05 1:00 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4192 | 8/5/05 1:15 | 14.57 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4193 | 8/5/05 1:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4194 | 8/5/05 1:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.54 | |
| 4195 | 8/5/05 2:00 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4196 | 8/5/05 2:15 | 14.57 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4197 | 8/5/05 2:30 | 14.57 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4198 | 8/5/05 2:45 | 14.57 | 16.68 | 15.04 | 14.82 | 14.54 | |
| 4199 | 8/5/05 3:00 | 14.41 | 16.68 | 15.04 | 14.82 | 14.54 | |
| 4200 | 8/5/05 3:15 | 14.41 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4201 | 8/5/05 3:30 | 14.26 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4202 | 8/5/05 3:45 | 14.26 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4203 | 8/5/05 4:00 | 14.26 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4204 | 8/5/05 4:15 | 14.26 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4205 | 8/5/05 4:30 | 14.26 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4206 | 8/5/05 4:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4207 | 8/5/05 5:00 | 14.41 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4208 | 8/5/05 5:15 | 14.41 | 16.68 | 14.73 | 14.67 | 14.7 | |
| 4209 | 8/5/05 5:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 4210 | 8/5/05 5:45 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4211 | 8/5/05 6:00 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4212 | 8/5/05 6:15 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4213 | 8/5/05 6:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4214 | 8/5/05 6:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4215 | 8/5/05 7:00 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4216 | 8/5/05 7:15 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4217 | 8/5/05 7:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4218 | 8/5/05 7:45 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4219 | 8/5/05 8:00 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4220 | 8/5/05 8:15 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4221 | 8/5/05 8:30 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4222 | 8/5/05 8:45 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4223 | 8/5/05 9:00 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4224 | 8/5/05 9:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4225 | 8/5/05 9:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4226 | 8/5/05 9:45 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4227 | 8/5/05 10:00 | 14.26 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4228 | 8/5/05 10:15 | 14.26 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4229 | 8/5/05 10:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4230 | 8/5/05 10:45 | 14.26 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4231 | 8/5/05 11:00 | 14.26 | 16.68 | 14.88 | 14.82 | 14.86 | |
| 4232 | 8/5/05 11:15 | 14.26 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4233 | 8/5/05 11:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4234 | 8/5/05 11:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4235 | 8/5/05 12:00 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4236 | 8/5/05 12:15 | 14.72 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4237 | 8/5/05 12:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4238 | 8/5/05 12:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4239 | 8/5/05 13:00 | 15.04 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4240 | 8/5/05 13:15 | 15.04 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4241 | 8/5/05 13:30 | 14.88 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4242 | 8/5/05 13:45 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4243 | 8/5/05 14:00 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4244 | 8/5/05 14:15 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4245 | 8/5/05 14:30 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4246 | 8/5/05 14:45 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4247 | 8/5/05 15:00 | 15.67 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4248 | 8/5/05 15:15 | 15.83 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4249 | 8/5/05 15:30 | 15.83 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4250 | 8/5/05 15:45 | 15.67 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4251 | 8/5/05 16:00 | 15.36 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4252 | 8/5/05 16:15 | 15.36 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4253 | 8/5/05 16:30 | 15.19 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4254 | 8/5/05 16:45 | 15.19 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4255 | 8/5/05 17:00 | 14.88 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4256 | 8/5/05 17:15 | 14.88 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4257 | 8/5/05 17:30 | 14.88 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4258 | 8/5/05 17:45 | 14.72 | 16.52 | 14.73 | 15.14 | 14.86 | |
| 4259 | 8/5/05 18:00 | 14.72 | 16.52 | 14.73 | 15.14 | 14.86 | |
| 4260 | 8/5/05 18:15 | 14.72 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4261 | 8/5/05 18:30 | 14.72 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4262 | 8/5/05 18:45 | 14.72 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4263 | 8/5/05 19:00 | 14.72 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4264 | 8/5/05 19:15 | 14.72 | 16.52 | 14.73 | 15.14 | 14.86 | |
| 4265 | 8/5/05 19:30 | 14.72 | 16.68 | 14.73 | 15.14 | 14.86 | |
| 4266 | 8/5/05 19:45 | 14.72 | 16.68 | 14.73 | 15.14 | 14.86 | |
| 4267 | 8/5/05 20:00 | 14.72 | 16.68 | 14.73 | 15.14 | 14.86 | |
| 4268 | 8/5/05 20:15 | 14.57 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4269 | 8/5/05 20:30 | 14.57 | 16.68 | 14.73 | 15.14 | 14.86 | |
| 4270 | 8/5/05 20:45 | 14.57 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4271 | 8/5/05 21:00 | 14.57 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4272 | 8/5/05 21:15 | 14.57 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4273 | 8/5/05 21:30 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4274 | 8/5/05 21:45 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4275 | 8/5/05 22:00 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4276 | 8/5/05 22:15 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4277 | 8/5/05 22:30 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4278 | 8/5/05 22:45 | 14.57 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4279 | 8/5/05 23:00 | 14.57 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4280 | 8/5/05 23:15 | 14.57 | 16.68 | 14.88 | 15.29 | 14.7 | |
| 4281 | 8/5/05 23:30 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4282 | 8/5/05 23:45 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4283 | 8/6/05 0:00 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4284 | 8/6/05 0:15 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4285 | 8/6/05 0:30 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4286 | 8/6/05 0:45 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4287 | 8/6/05 1:00 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4288 | 8/6/05 1:15 | 14.57 | 16.68 | 15.2 | 15.14 | 14.7 | |
| 4289 | 8/6/05 1:30 | 14.72 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4290 | 8/6/05 1:45 | 14.88 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4291 | 8/6/05 2:00 | 14.88 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4292 | 8/6/05 2:15 | 14.88 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4293 | 8/6/05 2:30 | 14.72 | 16.68 | 15.2 | 14.98 | 14.7 | |
| 4294 | 8/6/05 2:45 | 14.72 | 16.68 | 15.2 | 14.98 | 14.7 | |
| 4295 | 8/6/05 3:00 | 14.72 | 16.68 | 15.2 | 14.82 | 14.7 | |
| 4296 | 8/6/05 3:15 | 14.57 | 16.68 | 15.2 | 14.82 | 14.7 | |
| 4297 | 8/6/05 3:30 | 14.57 | 16.68 | 15.2 | 14.82 | 14.7 | |
| 4298 | 8/6/05 3:45 | 14.57 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4299 | 8/6/05 4:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4300 | 8/6/05 4:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4301 | 8/6/05 4:30 | 14.26 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4302 | 8/6/05 4:45 | 14.26 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4303 | 8/6/05 5:00 | 14.26 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4304 | 8/6/05 5:15 | 14.26 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4305 | 8/6/05 5:30 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4306 | 8/6/05 5:45 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4307 | 8/6/05 6:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4308 | 8/6/05 6:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4309 | 8/6/05 6:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4310 | 8/6/05 6:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4311 | 8/6/05 7:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4312 | 8/6/05 7:15 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4313 | 8/6/05 7:30 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4314 | 8/6/05 7:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4315 | 8/6/05 8:00 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4316 | 8/6/05 8:15 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4317 | 8/6/05 8:30 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4318 | 8/6/05 8:45 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4319 | 8/6/05 9:00 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4320 | 8/6/05 9:15 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4321 | 8/6/05 9:30 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4322 | 8/6/05 9:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4323 | 8/6/05 10:00 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4324 | 8/6/05 10:15 | 14.41 | 16.68 | 14.73 | 14.98 | 14.86 | |
| 4325 | 8/6/05 10:30 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4326 | 8/6/05 10:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.86 | |
| 4327 | 8/6/05 11:00 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4328 | 8/6/05 11:15 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4329 | 8/6/05 11:30 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4330 | 8/6/05 11:45 | 14.26 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4331 | 8/6/05 12:00 | 14.26 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4332 | 8/6/05 12:15 | 14.26 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4333 | 8/6/05 12:30 | 14.57 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4334 | 8/6/05 12:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4335 | 8/6/05 13:00 | 14.57 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4336 | 8/6/05 13:15 | 14.57 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4337 | 8/6/05 13:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.86 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4338 | 8/6/05 13:45 | 14.72 | 16.68 | 15.04 | 14.98 | 14.86 | |
| 4339 | 8/6/05 14:00 | 14.88 | 16.68 | 15.04 | 14.98 | 14.86 | |
| 4340 | 8/6/05 14:15 | 14.88 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4341 | 8/6/05 14:30 | 14.88 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4342 | 8/6/05 14:45 | 15.36 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4343 | 8/6/05 15:00 | 15.67 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4344 | 8/6/05 15:15 | 15.99 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4345 | 8/6/05 15:30 | 15.83 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4346 | 8/6/05 15:45 | 15.67 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4347 | 8/6/05 16:00 | 15.51 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4348 | 8/6/05 16:15 | 15.51 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4349 | 8/6/05 16:30 | 15.36 | 16.52 | 14.88 | 14.67 | 14.7 | |
| 4350 | 8/6/05 16:45 | 15.36 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4351 | 8/6/05 17:00 | 15.19 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4352 | 8/6/05 17:15 | 15.19 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4353 | 8/6/05 17:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4354 | 8/6/05 17:45 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4355 | 8/6/05 18:00 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4356 | 8/6/05 18:15 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4357 | 8/6/05 18:30 | 14.72 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4358 | 8/6/05 18:45 | 14.72 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4359 | 8/6/05 19:00 | 14.72 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4360 | 8/6/05 19:15 | 14.72 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4361 | 8/6/05 19:30 | 14.72 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4362 | 8/6/05 19:45 | 14.72 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4363 | 8/6/05 20:00 | 14.72 | 16.68 | 14.73 | 14.82 | 14.86 | |
| 4364 | 8/6/05 20:15 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4365 | 8/6/05 20:30 | 14.72 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4366 | 8/6/05 20:45 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4367 | 8/6/05 21:00 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4368 | 8/6/05 21:15 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4369 | 8/6/05 21:30 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4370 | 8/6/05 21:45 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4371 | 8/6/05 22:00 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4372 | 8/6/05 22:15 | 14.72 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4373 | 8/6/05 22:30 | 14.72 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4374 | 8/6/05 22:45 | 14.57 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4375 | 8/6/05 23:00 | 14.57 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4376 | 8/6/05 23:15 | 14.41 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4377 | 8/6/05 23:30 | 14.26 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4378 | 8/6/05 23:45 | 14.26 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4379 | 8/7/05 0:00 | 14.41 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4380 | 8/7/05 0:15 | 14.41 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4381 | 8/7/05 0:30 | 14.41 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4382 | 8/7/05 0:45 | 14.41 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4383 | 8/7/05 1:00 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4384 | 8/7/05 1:15 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4385 | 8/7/05 1:30 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4386 | 8/7/05 1:45 | 14.41 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4387 | 8/7/05 2:00 | 14.57 | 16.83 | 15.04 | 14.98 | 14.7 | |
| 4388 | 8/7/05 2:15 | 14.57 | 16.83 | 15.04 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4389 | 8/7/05 2:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4390 | 8/7/05 2:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4391 | 8/7/05 3:00 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4392 | 8/7/05 3:15 | 14.57 | 16.68 | 14.88 | 14.98 | 14.54 | |
| 4393 | 8/7/05 3:30 | 14.57 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4394 | 8/7/05 3:45 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4395 | 8/7/05 4:00 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4396 | 8/7/05 4:15 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4397 | 8/7/05 4:30 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4398 | 8/7/05 4:45 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4399 | 8/7/05 5:00 | 14.72 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4400 | 8/7/05 5:15 | 14.72 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4401 | 8/7/05 5:30 | 14.72 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4402 | 8/7/05 5:45 | 14.88 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4403 | 8/7/05 6:00 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4404 | 8/7/05 6:15 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4405 | 8/7/05 6:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4406 | 8/7/05 6:45 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4407 | 8/7/05 7:00 | 14.57 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4408 | 8/7/05 7:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4409 | 8/7/05 7:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4410 | 8/7/05 7:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4411 | 8/7/05 8:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4412 | 8/7/05 8:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4413 | 8/7/05 8:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4414 | 8/7/05 8:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4415 | 8/7/05 9:00 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4416 | 8/7/05 9:15 | 14.26 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4417 | 8/7/05 9:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4418 | 8/7/05 9:45 | 14.26 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4419 | 8/7/05 10:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4420 | 8/7/05 10:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4421 | 8/7/05 10:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4422 | 8/7/05 10:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4423 | 8/7/05 11:00 | 14.57 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4424 | 8/7/05 11:15 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4425 | 8/7/05 11:30 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4426 | 8/7/05 11:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4427 | 8/7/05 12:00 | 14.57 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4428 | 8/7/05 12:15 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4429 | 8/7/05 12:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4430 | 8/7/05 12:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4431 | 8/7/05 13:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4432 | 8/7/05 13:15 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4433 | 8/7/05 13:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4434 | 8/7/05 13:45 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4435 | 8/7/05 14:00 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4436 | 8/7/05 14:15 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4437 | 8/7/05 14:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4438 | 8/7/05 14:45 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4439 | 8/7/05 15:00 | 14.57 | 16.68 | 15.2 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4440 | 8/7/05 15:15 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4441 | 8/7/05 15:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4442 | 8/7/05 15:45 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4443 | 8/7/05 16:00 | 15.67 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4444 | 8/7/05 16:15 | 15.67 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4445 | 8/7/05 16:30 | 15.51 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4446 | 8/7/05 16:45 | 15.36 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4447 | 8/7/05 17:00 | 15.19 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4448 | 8/7/05 17:15 | 15.19 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4449 | 8/7/05 17:30 | 15.04 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4450 | 8/7/05 17:45 | 15.04 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4451 | 8/7/05 18:00 | 14.88 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4452 | 8/7/05 18:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4453 | 8/7/05 18:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4454 | 8/7/05 18:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4455 | 8/7/05 19:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4456 | 8/7/05 19:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4457 | 8/7/05 19:30 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4458 | 8/7/05 19:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4459 | 8/7/05 20:00 | 14.57 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4460 | 8/7/05 20:15 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4461 | 8/7/05 20:30 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4462 | 8/7/05 20:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4463 | 8/7/05 21:00 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4464 | 8/7/05 21:15 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4465 | 8/7/05 21:30 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4466 | 8/7/05 21:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4467 | 8/7/05 22:00 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4468 | 8/7/05 22:15 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4469 | 8/7/05 22:30 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4470 | 8/7/05 22:45 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4471 | 8/7/05 23:00 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4472 | 8/7/05 23:15 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4473 | 8/7/05 23:30 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4474 | 8/7/05 23:45 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4475 | 8/8/05 0:00 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4476 | 8/8/05 0:15 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4477 | 8/8/05 0:30 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4478 | 8/8/05 0:45 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4479 | 8/8/05 1:00 | 14.41 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4480 | 8/8/05 1:15 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4481 | 8/8/05 1:30 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4482 | 8/8/05 1:45 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4483 | 8/8/05 2:00 | 14.72 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4484 | 8/8/05 2:15 | 14.72 | 16.83 | 15.04 | 15.14 | 14.7 | |
| 4485 | 8/8/05 2:30 | 14.72 | 16.83 | 14.88 | 15.14 | 14.7 | |
| 4486 | 8/8/05 2:45 | 14.88 | 16.83 | 15.04 | 15.14 | 14.7 | |
| 4487 | 8/8/05 3:00 | 14.88 | 16.83 | 15.04 | 14.98 | 14.7 | |
| 4488 | 8/8/05 3:15 | 15.04 | 16.83 | 15.04 | 14.98 | 14.7 | |
| 4489 | 8/8/05 3:30 | 15.04 | 16.83 | 15.04 | 14.98 | 14.7 | |
| 4490 | 8/8/05 3:45 | 14.88 | 16.83 | 15.04 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4491 | 8/8/05 4:00 | 14.57 | 16.68 | 15.2 | 14.98 | 14.7 | |
| 4492 | 8/8/05 4:15 | 14.57 | 16.68 | 15.2 | 14.98 | 14.7 | |
| 4493 | 8/8/05 4:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4494 | 8/8/05 4:45 | 14.41 | 16.68 | 15.2 | 14.98 | 14.7 | |
| 4495 | 8/8/05 5:00 | 14.41 | 16.68 | 15.2 | 14.98 | 14.54 | |
| 4496 | 8/8/05 5:15 | 14.41 | 16.68 | 15.04 | 14.82 | 14.54 | |
| 4497 | 8/8/05 5:30 | 14.41 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4498 | 8/8/05 5:45 | 14.26 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4499 | 8/8/05 6:00 | 14.26 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4500 | 8/8/05 6:15 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4501 | 8/8/05 6:30 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4502 | 8/8/05 6:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4503 | 8/8/05 7:00 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4504 | 8/8/05 7:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4505 | 8/8/05 7:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4506 | 8/8/05 7:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4507 | 8/8/05 8:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4508 | 8/8/05 8:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4509 | 8/8/05 8:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4510 | 8/8/05 8:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4511 | 8/8/05 9:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4512 | 8/8/05 9:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4513 | 8/8/05 9:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4514 | 8/8/05 9:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4515 | 8/8/05 10:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4516 | 8/8/05 10:15 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4517 | 8/8/05 10:30 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4518 | 8/8/05 10:45 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4519 | 8/8/05 11:00 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4520 | 8/8/05 11:15 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4521 | 8/8/05 11:30 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4522 | 8/8/05 11:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4523 | 8/8/05 12:00 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4524 | 8/8/05 12:15 | 14.41 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 4525 | 8/8/05 12:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4526 | 8/8/05 12:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4527 | 8/8/05 13:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4528 | 8/8/05 13:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4529 | 8/8/05 13:30 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4530 | 8/8/05 13:45 | 14.88 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4531 | 8/8/05 14:00 | 14.72 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4532 | 8/8/05 14:15 | 14.57 | 16.68 | 15.04 | 15.14 | 14.54 | |
| 4533 | 8/8/05 14:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4534 | 8/8/05 14:45 | 14.41 | 16.83 | 15.04 | 15.14 | 14.54 | |
| 4535 | 8/8/05 15:00 | 14.57 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4536 | 8/8/05 15:15 | 14.41 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4537 | 8/8/05 15:30 | 14.41 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4538 | 8/8/05 15:45 | 14.41 | 16.68 | 15.04 | 14.98 | 14.54 | |
| 4539 | 8/8/05 16:00 | 14.57 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4540 | 8/8/05 16:15 | 14.41 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4541 | 8/8/05 16:30 | 14.41 | 16.52 | 15.04 | 14.98 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4542 | 8/8/05 16:45 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4543 | 8/8/05 17:00 | 15.83 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4544 | 8/8/05 17:15 | 16.14 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4545 | 8/8/05 17:30 | 15.67 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4546 | 8/8/05 17:45 | 15.51 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4547 | 8/8/05 18:00 | 15.36 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4548 | 8/8/05 18:15 | 15.36 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4549 | 8/8/05 18:30 | 15.04 | 16.52 | 15.2 | 14.98 | 14.7 | |
| 4550 | 8/8/05 18:45 | 14.88 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4551 | 8/8/05 19:00 | 14.88 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4552 | 8/8/05 19:15 | 14.72 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4553 | 8/8/05 19:30 | 14.72 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4554 | 8/8/05 19:45 | 14.72 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4555 | 8/8/05 20:00 | 14.72 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4556 | 8/8/05 20:15 | 14.57 | 16.68 | 14.88 | 14.82 | 14.86 | |
| 4557 | 8/8/05 20:30 | 14.72 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4558 | 8/8/05 20:45 | 14.72 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4559 | 8/8/05 21:00 | 14.72 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4560 | 8/8/05 21:15 | 14.72 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4561 | 8/8/05 21:30 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4562 | 8/8/05 21:45 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4563 | 8/8/05 22:00 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4564 | 8/8/05 22:15 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4565 | 8/8/05 22:30 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4566 | 8/8/05 22:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4567 | 8/8/05 23:00 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4568 | 8/8/05 23:15 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4569 | 8/8/05 23:30 | 14.57 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4570 | 8/8/05 23:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4571 | 8/9/05 0:00 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4572 | 8/9/05 0:15 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4573 | 8/9/05 0:30 | 14.57 | 16.68 | 14.88 | 15.14 | 14.7 | |
| 4574 | 8/9/05 0:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4575 | 8/9/05 1:00 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4576 | 8/9/05 1:15 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4577 | 8/9/05 1:30 | 14.41 | 16.68 | 15.04 | 15.14 | 14.7 | |
| 4578 | 8/9/05 1:45 | 14.57 | 16.68 | 15.2 | 15.14 | 14.7 | |
| 4579 | 8/9/05 2:00 | 14.57 | 16.68 | 15.2 | 15.29 | 14.7 | |
| 4580 | 8/9/05 2:15 | 14.57 | 16.68 | 15.2 | 15.29 | 14.7 | |
| 4581 | 8/9/05 2:30 | 14.57 | 16.68 | 15.2 | 15.29 | 14.86 | |
| 4582 | 8/9/05 2:45 | 14.57 | 16.68 | 15.2 | 15.14 | 14.86 | |
| 4583 | 8/9/05 3:00 | 14.72 | 16.68 | 15.04 | 15.14 | 14.86 | |
| 4584 | 8/9/05 3:15 | 14.72 | 16.68 | 14.88 | 14.98 | 14.86 | |
| 4585 | 8/9/05 3:30 | 14.57 | 16.68 | 15.04 | 14.98 | 14.86 | |
| 4586 | 8/9/05 3:45 | 14.72 | 16.68 | 15.04 | 14.82 | 14.86 | |
| 4587 | 8/9/05 4:00 | 14.57 | 16.68 | 15.2 | 14.82 | 14.7 | |
| 4588 | 8/9/05 4:15 | 14.72 | 16.52 | 15.2 | 14.82 | 14.7 | |
| 4589 | 8/9/05 4:30 | 14.72 | 16.68 | 15.36 | 14.82 | 14.7 | |
| 4590 | 8/9/05 4:45 | 14.57 | 16.68 | 15.68 | 14.82 | 14.7 | |
| 4591 | 8/9/05 5:00 | 14.57 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4592 | 8/9/05 5:15 | 14.57 | 16.68 | 14.88 | 14.82 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4593 | 8/9/05 5:30 | 14.57 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4594 | 8/9/05 5:45 | 14.57 | 16.68 | 15.04 | 14.82 | 14.54 | |
| 4595 | 8/9/05 6:00 | 14.57 | 16.52 | 15.2 | 14.82 | 14.54 | |
| 4596 | 8/9/05 6:15 | 14.57 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4597 | 8/9/05 6:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4598 | 8/9/05 6:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4599 | 8/9/05 7:00 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4600 | 8/9/05 7:15 | 14.88 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4601 | 8/9/05 7:30 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4602 | 8/9/05 7:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4603 | 8/9/05 8:00 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4604 | 8/9/05 8:15 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4605 | 8/9/05 8:30 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4606 | 8/9/05 8:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4607 | 8/9/05 9:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4608 | 8/9/05 9:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4609 | 8/9/05 9:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4610 | 8/9/05 9:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4611 | 8/9/05 10:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4612 | 8/9/05 10:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4613 | 8/9/05 10:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.86 | |
| 4614 | 8/9/05 10:45 | 14.57 | 16.68 | 14.88 | 14.82 | 14.7 | |
| 4615 | 8/9/05 11:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4616 | 8/9/05 11:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4617 | 8/9/05 11:30 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4618 | 8/9/05 11:45 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4619 | 8/9/05 12:00 | 14.72 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4620 | 8/9/05 12:15 | 14.57 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4621 | 8/9/05 12:30 | 14.57 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4622 | 8/9/05 12:45 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4623 | 8/9/05 13:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4624 | 8/9/05 13:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4625 | 8/9/05 13:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4626 | 8/9/05 13:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.86 | |
| 4627 | 8/9/05 14:00 | 14.57 | 16.52 | 14.88 | 14.98 | 14.86 | |
| 4628 | 8/9/05 14:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4629 | 8/9/05 14:30 | 14.72 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4630 | 8/9/05 14:45 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4631 | 8/9/05 15:00 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4632 | 8/9/05 15:15 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4633 | 8/9/05 15:30 | 14.57 | 16.52 | 15.04 | 14.98 | 14.86 | |
| 4634 | 8/9/05 15:45 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4635 | 8/9/05 16:00 | 14.57 | 16.52 | 15.2 | 14.82 | 14.7 | |
| 4636 | 8/9/05 16:15 | 14.72 | 16.52 | 15.2 | 14.82 | 14.7 | |
| 4637 | 8/9/05 16:30 | 14.72 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4638 | 8/9/05 16:45 | 14.88 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4639 | 8/9/05 17:00 | 15.04 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4640 | 8/9/05 17:15 | 14.88 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4641 | 8/9/05 17:30 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4642 | 8/9/05 17:45 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4643 | 8/9/05 18:00 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4644 | 8/9/05 18:15 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4645 | 8/9/05 18:30 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4646 | 8/9/05 18:45 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4647 | 8/9/05 19:00 | 14.88 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4648 | 8/9/05 19:15 | 14.72 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4649 | 8/9/05 19:30 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4650 | 8/9/05 19:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4651 | 8/9/05 20:00 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4652 | 8/9/05 20:15 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4653 | 8/9/05 20:30 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4654 | 8/9/05 20:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4655 | 8/9/05 21:00 | 14.57 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4656 | 8/9/05 21:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4657 | 8/9/05 21:30 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4658 | 8/9/05 21:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4659 | 8/9/05 22:00 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4660 | 8/9/05 22:15 | 14.72 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4661 | 8/9/05 22:30 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4662 | 8/9/05 22:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4663 | 8/9/05 23:00 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4664 | 8/9/05 23:15 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4665 | 8/9/05 23:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4666 | 8/9/05 23:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4667 | 8/10/05 0:00 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4668 | 8/10/05 0:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4669 | 8/10/05 0:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4670 | 8/10/05 0:45 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4671 | 8/10/05 1:00 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4672 | 8/10/05 1:15 | 14.41 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4673 | 8/10/05 1:30 | 14.41 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4674 | 8/10/05 1:45 | 14.26 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4675 | 8/10/05 2:00 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4676 | 8/10/05 2:15 | 14.26 | 16.68 | 14.73 | 15.14 | 14.7 | |
| 4677 | 8/10/05 2:30 | 14.26 | 16.52 | 14.73 | 15.14 | 14.7 | |
| 4678 | 8/10/05 2:45 | 14.26 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4679 | 8/10/05 3:00 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4680 | 8/10/05 3:15 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4681 | 8/10/05 3:30 | 14.41 | 16.68 | 14.73 | 14.98 | 14.7 | |
| 4682 | 8/10/05 3:45 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4683 | 8/10/05 4:00 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4684 | 8/10/05 4:15 | 14.41 | 16.68 | 14.88 | 14.98 | 14.7 | |
| 4685 | 8/10/05 4:30 | 14.41 | 16.68 | 14.88 | 14.98 | 14.54 | |
| 4686 | 8/10/05 4:45 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4687 | 8/10/05 5:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4688 | 8/10/05 5:15 | 14.57 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4689 | 8/10/05 5:30 | 14.57 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4690 | 8/10/05 5:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4691 | 8/10/05 6:00 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4692 | 8/10/05 6:15 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4693 | 8/10/05 6:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4694 | 8/10/05 6:45 | 14.72 | 16.52 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4695 | 8/10/05 7:00 | 14.88 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4696 | 8/10/05 7:15 | 14.72 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 4697 | 8/10/05 7:30 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4698 | 8/10/05 7:45 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4699 | 8/10/05 8:00 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4700 | 8/10/05 8:15 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4701 | 8/10/05 8:30 | 14.72 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4702 | 8/10/05 8:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4703 | 8/10/05 9:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4704 | 8/10/05 9:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4705 | 8/10/05 9:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4706 | 8/10/05 9:45 | 14.26 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 4707 | 8/10/05 10:00 | 14.26 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 4708 | 8/10/05 10:15 | 14.26 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 4709 | 8/10/05 10:30 | 14.26 | 16.68 | 14.73 | 14.82 | 14.54 | |
| 4710 | 8/10/05 10:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4711 | 8/10/05 11:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4712 | 8/10/05 11:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4713 | 8/10/05 11:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4714 | 8/10/05 11:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4715 | 8/10/05 12:00 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4716 | 8/10/05 12:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4717 | 8/10/05 12:30 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4718 | 8/10/05 12:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4719 | 8/10/05 13:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4720 | 8/10/05 13:15 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4721 | 8/10/05 13:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4722 | 8/10/05 13:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4723 | 8/10/05 14:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4724 | 8/10/05 14:15 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4725 | 8/10/05 14:30 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4726 | 8/10/05 14:45 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4727 | 8/10/05 15:00 | 14.57 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 4728 | 8/10/05 15:15 | 14.57 | 16.52 | 15.04 | 15.14 | 14.7 | |
| 4729 | 8/10/05 15:30 | 14.57 | 16.52 | 15.04 | 15.14 | 14.7 | |
| 4730 | 8/10/05 15:45 | 14.72 | 16.52 | 15.04 | 15.14 | 14.7 | |
| 4731 | 8/10/05 16:00 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4732 | 8/10/05 16:15 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4733 | 8/10/05 16:30 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4734 | 8/10/05 16:45 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4735 | 8/10/05 17:00 | 14.72 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4736 | 8/10/05 17:15 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4737 | 8/10/05 17:30 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4738 | 8/10/05 17:45 | 14.57 | 16.52 | 15.04 | 14.82 | 14.54 | |
| 4739 | 8/10/05 18:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4740 | 8/10/05 18:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4741 | 8/10/05 18:30 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4742 | 8/10/05 18:45 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 4743 | 8/10/05 19:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4744 | 8/10/05 19:15 | 14.57 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4745 | 8/10/05 19:30 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4746 | 8/10/05 19:45 | 14.57 | 16.36 | 14.73 | 14.98 | 14.54 | |
| 4747 | 8/10/05 20:00 | 14.57 | 16.36 | 14.73 | 14.98 | 14.54 | |
| 4748 | 8/10/05 20:15 | 14.57 | 16.68 | 14.73 | 14.98 | 14.54 | |
| 4749 | 8/10/05 20:30 | 14.57 | 16.52 | 14.73 | 14.98 | 14.54 | |
| 4750 | 8/10/05 20:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 4751 | 8/10/05 21:00 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4752 | 8/10/05 21:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4753 | 8/10/05 21:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.54 | |
| 4754 | 8/10/05 21:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.54 | |
| 4755 | 8/10/05 22:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4756 | 8/10/05 22:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4757 | 8/10/05 22:30 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4758 | 8/10/05 22:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4759 | 8/10/05 23:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 4760 | 8/10/05 23:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4761 | 8/10/05 23:30 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4762 | 8/10/05 23:45 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4763 | 8/11/05 0:00 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4764 | 8/11/05 0:15 | 14.41 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4765 | 8/11/05 0:30 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4766 | 8/11/05 0:45 | 14.57 | 16.52 | 14.73 | 14.98 | 14.7 | |
| 4767 | 8/11/05 1:00 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4768 | 8/11/05 1:15 | 14.72 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4769 | 8/11/05 1:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4770 | 8/11/05 1:45 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4771 | 8/11/05 2:00 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4772 | 8/11/05 2:15 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4773 | 8/11/05 2:30 | 14.72 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4774 | 8/11/05 2:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 4775 | 8/11/05 3:00 | 14.72 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4776 | 8/11/05 3:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 4777 | 8/11/05 3:30 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4778 | 8/11/05 3:45 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4779 | 8/11/05 4:00 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4780 | 8/11/05 4:15 | 14.57 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4781 | 8/11/05 4:30 | 14.72 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4782 | 8/11/05 4:45 | 14.72 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 4783 | 8/11/05 5:00 | 14.72 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4784 | 8/11/05 5:15 | 14.72 | 16.68 | 15.04 | 14.98 | 14.7 | |
| 4785 | 8/11/05 5:30 | 14.72 | 16.83 | 14.88 | 14.98 | 14.7 | |
| 4786 | 8/11/05 5:45 | 14.57 | 16.99 | 15.04 | 14.98 | 14.54 | |
| 4787 | 8/11/05 6:00 | 14.57 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4788 | 8/11/05 6:15 | 14.57 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4789 | 8/11/05 6:30 | 14.57 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 4790 | 8/11/05 6:45 | 14.57 | 16.36 | 15.2 | 14.98 | 14.54 | |
| 4791 | 8/11/05 7:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4792 | 8/11/05 7:15 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4793 | 8/11/05 7:30 | 14.41 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4794 | 8/11/05 7:45 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4795 | 8/11/05 8:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4796 | 8/11/05 8:15 | 14.88 | 16.36 | 15.04 | 14.82 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4797 | 8/11/05 8:30 | 14.88 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4798 | 8/11/05 8:45 | 14.88 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 4799 | 8/11/05 9:00 | 14.88 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 4800 | 8/11/05 9:15 | 14.88 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4801 | 8/11/05 9:30 | 14.57 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4802 | 8/11/05 9:45 | 14.57 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4803 | 8/11/05 10:00 | 14.57 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4804 | 8/11/05 10:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4805 | 8/11/05 10:30 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4806 | 8/11/05 10:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4807 | 8/11/05 11:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4808 | 8/11/05 11:15 | 14.57 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4809 | 8/11/05 11:30 | 14.41 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4810 | 8/11/05 11:45 | 14.41 | 16.68 | 15.04 | 14.82 | 14.7 | |
| 4811 | 8/11/05 12:00 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4812 | 8/11/05 12:15 | 14.57 | 16.52 | 15.04 | 14.82 | 14.7 | |
| 4813 | 8/11/05 12:30 | 14.41 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4814 | 8/11/05 12:45 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4815 | 8/11/05 13:00 | 14.88 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4816 | 8/11/05 13:15 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4817 | 8/11/05 13:30 | 14.88 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4818 | 8/11/05 13:45 | 14.88 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4819 | 8/11/05 14:00 | 14.88 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4820 | 8/11/05 14:15 | 14.88 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4821 | 8/11/05 14:30 | 14.72 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4822 | 8/11/05 14:45 | 14.72 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 4823 | 8/11/05 15:00 | 14.72 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 4824 | 8/11/05 15:15 | 14.72 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 4825 | 8/11/05 15:30 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4826 | 8/11/05 15:45 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4827 | 8/11/05 16:00 | 14.72 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4828 | 8/11/05 16:15 | 14.88 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4829 | 8/11/05 16:30 | 14.88 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4830 | 8/11/05 16:45 | 14.88 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4831 | 8/11/05 17:00 | 14.72 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4832 | 8/11/05 17:15 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4833 | 8/11/05 17:30 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4834 | 8/11/05 17:45 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4835 | 8/11/05 18:00 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4836 | 8/11/05 18:15 | 14.57 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4837 | 8/11/05 18:30 | 14.57 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4838 | 8/11/05 18:45 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4839 | 8/11/05 19:00 | 14.41 | 16.36 | 15.2 | 14.82 | 14.54 | |
| 4840 | 8/11/05 19:15 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4841 | 8/11/05 19:30 | 14.57 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4842 | 8/11/05 19:45 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4843 | 8/11/05 20:00 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4844 | 8/11/05 20:15 | 14.72 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4845 | 8/11/05 20:30 | 14.72 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4846 | 8/11/05 20:45 | 14.72 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4847 | 8/11/05 21:00 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4848 | 8/11/05 21:15 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4849 | 8/11/05 21:30 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4850 | 8/11/05 21:45 | 14.57 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 4851 | 8/11/05 22:00 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4852 | 8/11/05 22:15 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4853 | 8/11/05 22:30 | 14.41 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 4854 | 8/11/05 22:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4855 | 8/11/05 23:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4856 | 8/11/05 23:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4857 | 8/11/05 23:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4858 | 8/11/05 23:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4859 | 8/12/05 0:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4860 | 8/12/05 0:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4861 | 8/12/05 0:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4862 | 8/12/05 0:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4863 | 8/12/05 1:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4864 | 8/12/05 1:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4865 | 8/12/05 1:30 | 14.41 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4866 | 8/12/05 1:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4867 | 8/12/05 2:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4868 | 8/12/05 2:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4869 | 8/12/05 2:30 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4870 | 8/12/05 2:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4871 | 8/12/05 3:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 4872 | 8/12/05 3:15 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 4873 | 8/12/05 3:30 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4874 | 8/12/05 3:45 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4875 | 8/12/05 4:00 | 14.41 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4876 | 8/12/05 4:15 | 14.41 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4877 | 8/12/05 4:30 | 14.57 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4878 | 8/12/05 4:45 | 14.57 | 16.21 | 15.04 | 15.14 | 14.54 | |
| 4879 | 8/12/05 5:00 | 14.72 | 16.21 | 15.04 | 15.14 | 14.54 | |
| 4880 | 8/12/05 5:15 | 14.72 | 16.21 | 15.04 | 15.14 | 14.54 | |
| 4881 | 8/12/05 5:30 | 14.72 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4882 | 8/12/05 5:45 | 14.72 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4883 | 8/12/05 6:00 | 14.72 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4884 | 8/12/05 6:15 | 14.72 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4885 | 8/12/05 6:30 | 14.57 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4886 | 8/12/05 6:45 | 14.41 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4887 | 8/12/05 7:00 | 14.41 | 16.36 | 15.2 | 14.82 | 14.54 | |
| 4888 | 8/12/05 7:15 | 14.41 | 16.36 | 15.2 | 14.82 | 14.54 | |
| 4889 | 8/12/05 7:30 | 14.41 | 16.36 | 15.2 | 14.82 | 14.54 | |
| 4890 | 8/12/05 7:45 | 14.41 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4891 | 8/12/05 8:00 | 14.41 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4892 | 8/12/05 8:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4893 | 8/12/05 8:30 | 14.72 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4894 | 8/12/05 8:45 | 15.04 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4895 | 8/12/05 9:00 | 15.04 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4896 | 8/12/05 9:15 | 14.88 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4897 | 8/12/05 9:30 | 14.72 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4898 | 8/12/05 9:45 | 14.72 | 16.36 | 14.73 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4899 | 8/12/05 10:00 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4900 | 8/12/05 10:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4901 | 8/12/05 10:30 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 4902 | 8/12/05 10:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4903 | 8/12/05 11:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4904 | 8/12/05 11:15 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4905 | 8/12/05 11:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4906 | 8/12/05 11:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4907 | 8/12/05 12:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4908 | 8/12/05 12:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4909 | 8/12/05 12:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4910 | 8/12/05 12:45 | 14.57 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4911 | 8/12/05 13:00 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 4912 | 8/12/05 13:15 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 4913 | 8/12/05 13:30 | 14.41 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 4914 | 8/12/05 13:45 | 14.41 | 16.36 | 14.73 | 14.98 | 14.7 | |
| 4915 | 8/12/05 14:00 | 14.41 | 16.36 | 14.73 | 14.98 | 14.7 | |
| 4916 | 8/12/05 14:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4917 | 8/12/05 14:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 4918 | 8/12/05 14:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4919 | 8/12/05 15:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4920 | 8/12/05 15:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4921 | 8/12/05 15:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4922 | 8/12/05 15:45 | 14.41 | 16.36 | 15.04 | 14.82 | 14.7 | |
| 4923 | 8/12/05 16:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 4924 | 8/12/05 16:15 | 14.57 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4925 | 8/12/05 16:30 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4926 | 8/12/05 16:45 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4927 | 8/12/05 17:00 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4928 | 8/12/05 17:15 | 14.57 | 16.36 | 15.04 | 15.14 | 14.7 | |
| 4929 | 8/12/05 17:30 | 14.57 | 16.36 | 15.04 | 15.14 | 14.7 | |
| 4930 | 8/12/05 17:45 | 14.57 | 16.21 | 15.04 | 15.14 | 14.7 | |
| 4931 | 8/12/05 18:00 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4932 | 8/12/05 18:15 | 14.57 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4933 | 8/12/05 18:30 | 14.57 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4934 | 8/12/05 18:45 | 14.57 | 16.21 | 14.88 | 15.14 | 14.7 | |
| 4935 | 8/12/05 19:00 | 14.41 | 16.21 | 14.88 | 15.14 | 14.7 | |
| 4936 | 8/12/05 19:15 | 14.57 | 16.36 | 14.88 | 15.14 | 14.7 | |
| 4937 | 8/12/05 19:30 | 14.57 | 16.36 | 14.88 | 15.14 | 14.7 | |
| 4938 | 8/12/05 19:45 | 14.57 | 16.21 | 14.88 | 15.14 | 14.7 | |
| 4939 | 8/12/05 20:00 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4940 | 8/12/05 20:15 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4941 | 8/12/05 20:30 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4942 | 8/12/05 20:45 | 14.72 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4943 | 8/12/05 21:00 | 14.72 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4944 | 8/12/05 21:15 | 14.88 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4945 | 8/12/05 21:30 | 15.04 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4946 | 8/12/05 21:45 | 14.72 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4947 | 8/12/05 22:00 | 14.57 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4948 | 8/12/05 22:15 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4949 | 8/12/05 22:30 | 14.41 | 16.21 | 14.73 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 4950 | 8/12/05 22:45 | 14.41 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4951 | 8/12/05 23:00 | 14.41 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4952 | 8/12/05 23:15 | 14.57 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 4953 | 8/12/05 23:30 | 14.57 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4954 | 8/12/05 23:45 | 14.57 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4955 | 8/13/05 0:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4956 | 8/13/05 0:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4957 | 8/13/05 0:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4958 | 8/13/05 0:45 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4959 | 8/13/05 1:00 | 14.26 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4960 | 8/13/05 1:15 | 14.26 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4961 | 8/13/05 1:30 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4962 | 8/13/05 1:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 4963 | 8/13/05 2:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 4964 | 8/13/05 2:15 | 14.41 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 4965 | 8/13/05 2:30 | 14.41 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 4966 | 8/13/05 2:45 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 4967 | 8/13/05 3:00 | 14.41 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 4968 | 8/13/05 3:15 | 14.26 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 4969 | 8/13/05 3:30 | 14.26 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4970 | 8/13/05 3:45 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4971 | 8/13/05 4:00 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4972 | 8/13/05 4:15 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4973 | 8/13/05 4:30 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4974 | 8/13/05 4:45 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4975 | 8/13/05 5:00 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4976 | 8/13/05 5:15 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4977 | 8/13/05 5:30 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4978 | 8/13/05 5:45 | 14.41 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4979 | 8/13/05 6:00 | 14.41 | 16.21 | 15.2 | 14.98 | 14.7 | |
| 4980 | 8/13/05 6:15 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4981 | 8/13/05 6:30 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4982 | 8/13/05 6:45 | 14.57 | 16.21 | 15.04 | 14.98 | 14.7 | |
| 4983 | 8/13/05 7:00 | 14.57 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4984 | 8/13/05 7:15 | 14.41 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 4985 | 8/13/05 7:30 | 14.41 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4986 | 8/13/05 7:45 | 14.41 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 4987 | 8/13/05 8:00 | 14.41 | 16.21 | 15.2 | 14.98 | 14.54 | |
| 4988 | 8/13/05 8:15 | 14.41 | 16.21 | 15.2 | 14.82 | 14.54 | |
| 4989 | 8/13/05 8:30 | 14.41 | 16.21 | 15.2 | 14.82 | 14.54 | |
| 4990 | 8/13/05 8:45 | 14.41 | 16.21 | 15.2 | 14.82 | 14.54 | |
| 4991 | 8/13/05 9:00 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 4992 | 8/13/05 9:15 | 14.72 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 4993 | 8/13/05 9:30 | 15.36 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4994 | 8/13/05 9:45 | 15.51 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 4995 | 8/13/05 10:00 | 15.36 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4996 | 8/13/05 10:15 | 15.04 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4997 | 8/13/05 10:30 | 14.88 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 4998 | 8/13/05 10:45 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 4999 | 8/13/05 11:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 5000 | 8/13/05 11:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5001 | 8/13/05 11:30 | 14.41 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 5002 | 8/13/05 11:45 | 14.41 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 5003 | 8/13/05 12:00 | 14.41 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5004 | 8/13/05 12:15 | 14.41 | 16.21 | 14.73 | 15.14 | 14.7 | |
| 5005 | 8/13/05 12:30 | 14.26 | 16.21 | 14.73 | 15.14 | 14.54 | |
| 5006 | 8/13/05 12:45 | 14.41 | 16.21 | 14.88 | 15.14 | 14.7 | |
| 5007 | 8/13/05 13:00 | 14.41 | 16.21 | 14.88 | 15.14 | 14.7 | |
| 5008 | 8/13/05 13:15 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 5009 | 8/13/05 13:30 | 14.41 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5010 | 8/13/05 13:45 | 14.41 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 5011 | 8/13/05 14:00 | 14.41 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 5012 | 8/13/05 14:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5013 | 8/13/05 14:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5014 | 8/13/05 14:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5015 | 8/13/05 15:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 5016 | 8/13/05 15:15 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 5017 | 8/13/05 15:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5018 | 8/13/05 15:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5019 | 8/13/05 16:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5020 | 8/13/05 16:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5021 | 8/13/05 16:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5022 | 8/13/05 16:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5023 | 8/13/05 17:00 | 14.41 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5024 | 8/13/05 17:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5025 | 8/13/05 17:30 | 14.41 | 16.21 | 14.88 | 14.98 | 14.7 | |
| 5026 | 8/13/05 17:45 | 14.41 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 5027 | 8/13/05 18:00 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5028 | 8/13/05 18:15 | 14.41 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 5029 | 8/13/05 18:30 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5030 | 8/13/05 18:45 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5031 | 8/13/05 19:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5032 | 8/13/05 19:15 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5033 | 8/13/05 19:30 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5034 | 8/13/05 19:45 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5035 | 8/13/05 20:00 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5036 | 8/13/05 20:15 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5037 | 8/13/05 20:30 | 14.41 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5038 | 8/13/05 20:45 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5039 | 8/13/05 21:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5040 | 8/13/05 21:15 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5041 | 8/13/05 21:30 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5042 | 8/13/05 21:45 | 14.41 | 16.36 | 14.88 | 14.98 | 14.38 | |
| 5043 | 8/13/05 22:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5044 | 8/13/05 22:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5045 | 8/13/05 22:30 | 14.57 | 16.36 | 14.88 | 14.98 | 14.38 | |
| 5046 | 8/13/05 22:45 | 14.57 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5047 | 8/13/05 23:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5048 | 8/13/05 23:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5049 | 8/13/05 23:30 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5050 | 8/13/05 23:45 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5051 | 8/14/05 0:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5052 | 8/14/05 0:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5053 | 8/14/05 0:30 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5054 | 8/14/05 0:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5055 | 8/14/05 1:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5056 | 8/14/05 1:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5057 | 8/14/05 1:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5058 | 8/14/05 1:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5059 | 8/14/05 2:00 | 14.57 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5060 | 8/14/05 2:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5061 | 8/14/05 2:30 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5062 | 8/14/05 2:45 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5063 | 8/14/05 3:00 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5064 | 8/14/05 3:15 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5065 | 8/14/05 3:30 | 14.41 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5066 | 8/14/05 3:45 | 14.26 | 16.21 | 15.04 | 14.82 | 14.54 | |
| 5067 | 8/14/05 4:00 | 14.26 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 5068 | 8/14/05 4:15 | 14.41 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 5069 | 8/14/05 4:30 | 14.41 | 16.36 | 15.04 | 14.98 | 14.54 | |
| 5070 | 8/14/05 4:45 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5071 | 8/14/05 5:00 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5072 | 8/14/05 5:15 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5073 | 8/14/05 5:30 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5074 | 8/14/05 5:45 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5075 | 8/14/05 6:00 | 14.41 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 5076 | 8/14/05 6:15 | 14.41 | 16.52 | 15.04 | 14.98 | 14.7 | |
| 5077 | 8/14/05 6:30 | 14.41 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5078 | 8/14/05 6:45 | 14.57 | 16.36 | 15.04 | 14.98 | 14.7 | |
| 5079 | 8/14/05 7:00 | 14.57 | 16.21 | 15.2 | 14.98 | 14.7 | |
| 5080 | 8/14/05 7:15 | 14.57 | 16.36 | 15.2 | 14.98 | 14.7 | |
| 5081 | 8/14/05 7:30 | 14.57 | 16.36 | 15.2 | 14.98 | 14.7 | |
| 5082 | 8/14/05 7:45 | 14.57 | 16.36 | 15.2 | 14.98 | 14.7 | |
| 5083 | 8/14/05 8:00 | 14.57 | 16.36 | 15.2 | 14.98 | 14.7 | |
| 5084 | 8/14/05 8:15 | 14.57 | 16.36 | 15.2 | 14.98 | 14.7 | |
| 5085 | 8/14/05 8:30 | 14.41 | 16.21 | 15.2 | 14.98 | 14.7 | |
| 5086 | 8/14/05 8:45 | 14.41 | 16.21 | 15.2 | 14.98 | 14.54 | |
| 5087 | 8/14/05 9:00 | 14.41 | 16.21 | 15.2 | 14.98 | 14.54 | |
| 5088 | 8/14/05 9:15 | 14.57 | 16.21 | 15.2 | 14.82 | 14.54 | |
| 5089 | 8/14/05 9:30 | 15.36 | 16.21 | 15.04 | 14.98 | 14.54 | |
| 5090 | 8/14/05 9:45 | 15.51 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 5091 | 8/14/05 10:00 | 15.67 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5092 | 8/14/05 10:15 | 15.36 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5093 | 8/14/05 10:30 | 15.36 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5094 | 8/14/05 10:45 | 15.36 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5095 | 8/14/05 11:00 | 15.19 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5096 | 8/14/05 11:15 | 15.19 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5097 | 8/14/05 11:30 | 15.19 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5098 | 8/14/05 11:45 | 14.88 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5099 | 8/14/05 12:00 | 14.72 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 5100 | 8/14/05 12:15 | 14.57 | 16.21 | 15.04 | 14.82 | 14.7 | |
| 5101 | 8/14/05 12:30 | 14.57 | 16.04 | 15.04 | 14.82 | 14.54 | |
| 5102 | 8/14/05 12:45 | 14.57 | 16.04 | 15.04 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5103 | 8/14/05 13:00 | 14.57 | 16.04 | 15.04 | 14.82 | 14.7 | |
| 5104 | 8/14/05 13:15 | 14.57 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5105 | 8/14/05 13:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5106 | 8/14/05 13:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5107 | 8/14/05 14:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5108 | 8/14/05 14:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5109 | 8/14/05 14:30 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5110 | 8/14/05 14:45 | 14.57 | 16.36 | 14.88 | 14.98 | 14.7 | |
| 5111 | 8/14/05 15:00 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5112 | 8/14/05 15:15 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 5113 | 8/14/05 15:30 | 14.57 | 16.36 | 14.88 | 15.14 | 14.54 | |
| 5114 | 8/14/05 15:45 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5115 | 8/14/05 16:00 | 14.57 | 16.36 | 14.73 | 14.98 | 14.54 | |
| 5116 | 8/14/05 16:15 | 14.41 | 16.36 | 14.73 | 14.98 | 14.7 | |
| 5117 | 8/14/05 16:30 | 14.41 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5118 | 8/14/05 16:45 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 5119 | 8/14/05 17:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 5120 | 8/14/05 17:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.7 | |
| 5121 | 8/14/05 17:30 | 14.57 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5122 | 8/14/05 17:45 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5123 | 8/14/05 18:00 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5124 | 8/14/05 18:15 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5125 | 8/14/05 18:30 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5126 | 8/14/05 18:45 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5127 | 8/14/05 19:00 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5128 | 8/14/05 19:15 | 14.57 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5129 | 8/14/05 19:30 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5130 | 8/14/05 19:45 | 14.57 | 16.36 | 14.88 | 15.14 | 14.54 | |
| 5131 | 8/14/05 20:00 | 14.57 | 16.36 | 14.88 | 15.14 | 14.54 | |
| 5132 | 8/14/05 20:15 | 14.57 | 16.21 | 14.88 | 15.14 | 14.54 | |
| 5133 | 8/14/05 20:30 | 14.57 | 16.36 | 14.88 | 15.14 | 14.54 | |
| 5134 | 8/14/05 20:45 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5135 | 8/14/05 21:00 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5136 | 8/14/05 21:15 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5137 | 8/14/05 21:30 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5138 | 8/14/05 21:45 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5139 | 8/14/05 22:00 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5140 | 8/14/05 22:15 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5141 | 8/14/05 22:30 | 14.57 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5142 | 8/14/05 22:45 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5143 | 8/14/05 23:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5144 | 8/14/05 23:15 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5145 | 8/14/05 23:30 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5146 | 8/14/05 23:45 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5147 | 8/15/05 0:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5148 | 8/15/05 0:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5149 | 8/15/05 0:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5150 | 8/15/05 0:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5151 | 8/15/05 1:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5152 | 8/15/05 1:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5153 | 8/15/05 1:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5154 | 8/15/05 1:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5155 | 8/15/05 2:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5156 | 8/15/05 2:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5157 | 8/15/05 2:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5158 | 8/15/05 2:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5159 | 8/15/05 3:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5160 | 8/15/05 3:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5161 | 8/15/05 3:30 | 14.26 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5162 | 8/15/05 3:45 | 14.26 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5163 | 8/15/05 4:00 | 14.26 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5164 | 8/15/05 4:15 | 14.26 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5165 | 8/15/05 4:30 | 14.26 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5166 | 8/15/05 4:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5167 | 8/15/05 5:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5168 | 8/15/05 5:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5169 | 8/15/05 5:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5170 | 8/15/05 5:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5171 | 8/15/05 6:00 | 14.41 | 16.83 | 14.88 | 14.82 | 14.54 | |
| 5172 | 8/15/05 6:15 | 14.41 | 16.83 | 14.88 | 14.82 | 14.54 | |
| 5173 | 8/15/05 6:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5174 | 8/15/05 6:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5175 | 8/15/05 7:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5176 | 8/15/05 7:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5177 | 8/15/05 7:30 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5178 | 8/15/05 7:45 | 14.57 | 16.68 | 14.88 | 14.98 | 14.54 | |
| 5179 | 8/15/05 8:00 | 14.57 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 5180 | 8/15/05 8:15 | 14.57 | 16.52 | 15.04 | 14.98 | 14.54 | |
| 5181 | 8/15/05 8:30 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5182 | 8/15/05 8:45 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5183 | 8/15/05 9:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5184 | 8/15/05 9:15 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5185 | 8/15/05 9:30 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5186 | 8/15/05 9:45 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5187 | 8/15/05 10:00 | 14.57 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5188 | 8/15/05 10:15 | 15.51 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5189 | 8/15/05 10:30 | 15.67 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5190 | 8/15/05 10:45 | 15.83 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5191 | 8/15/05 11:00 | 15.83 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5192 | 8/15/05 11:15 | 15.51 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5193 | 8/15/05 11:30 | 15.36 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5194 | 8/15/05 11:45 | 15.36 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5195 | 8/15/05 12:00 | 15.19 | 16.21 | 14.88 | 14.67 | 14.54 | |
| 5196 | 8/15/05 12:15 | 15.19 | 16.21 | 14.88 | 14.82 | 14.7 | |
| 5197 | 8/15/05 12:30 | 15.04 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5198 | 8/15/05 12:45 | 15.04 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5199 | 8/15/05 13:00 | 15.04 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5200 | 8/15/05 13:15 | 14.88 | 16.21 | 14.73 | 14.67 | 14.54 | |
| 5201 | 8/15/05 13:30 | 14.88 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5202 | 8/15/05 13:45 | 14.57 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5203 | 8/15/05 14:00 | 14.57 | 16.21 | 14.73 | 14.82 | 14.7 | |
| 5204 | 8/15/05 14:15 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5205 | 8/15/05 14:30 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 5206 | 8/15/05 14:45 | 14.57 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 5207 | 8/15/05 15:00 | 14.57 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 5208 | 8/15/05 15:15 | 14.57 | 16.52 | 14.73 | 14.98 | 14.54 | |
| 5209 | 8/15/05 15:30 | 14.57 | 16.68 | 14.73 | 14.82 | 14.7 | |
| 5210 | 8/15/05 15:45 | 14.57 | 16.52 | 14.73 | 14.82 | 14.7 | |
| 5211 | 8/15/05 16:00 | 14.57 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5212 | 8/15/05 16:15 | 14.57 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5213 | 8/15/05 16:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5214 | 8/15/05 16:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 5215 | 8/15/05 17:00 | 14.41 | 16.52 | 14.73 | 14.82 | 14.86 | |
| 5216 | 8/15/05 17:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5217 | 8/15/05 17:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5218 | 8/15/05 17:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5219 | 8/15/05 18:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5220 | 8/15/05 18:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5221 | 8/15/05 18:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5222 | 8/15/05 18:45 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 5223 | 8/15/05 19:00 | 14.41 | 16.52 | 14.88 | 14.98 | 14.7 | |
| 5224 | 8/15/05 19:15 | 14.41 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 5225 | 8/15/05 19:30 | 14.41 | 16.52 | 14.88 | 15.14 | 14.7 | |
| 5226 | 8/15/05 19:45 | 14.41 | 16.52 | 14.88 | 15.29 | 14.54 | |
| 5227 | 8/15/05 20:00 | 14.41 | 16.52 | 14.88 | 15.14 | 14.54 | |
| 5228 | 8/15/05 20:15 | 14.41 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 5229 | 8/15/05 20:30 | 14.41 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 5230 | 8/15/05 20:45 | 14.41 | 16.52 | 14.88 | 14.98 | 14.54 | |
| 5231 | 8/15/05 21:00 | 14.41 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 5232 | 8/15/05 21:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5233 | 8/15/05 21:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5234 | 8/15/05 21:45 | 14.41 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 5235 | 8/15/05 22:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5236 | 8/15/05 22:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5237 | 8/15/05 22:30 | 14.41 | 16.68 | 14.88 | 14.82 | 14.54 | |
| 5238 | 8/15/05 22:45 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5239 | 8/15/05 23:00 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5240 | 8/15/05 23:15 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5241 | 8/15/05 23:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5242 | 8/15/05 23:45 | 14.57 | 16.52 | 14.88 | 14.67 | 14.54 | |
| 5243 | 8/16/05 0:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.38 | |
| 5244 | 8/16/05 0:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5245 | 8/16/05 0:30 | 14.41 | 16.52 | 14.88 | 14.67 | 14.54 | |
| 5246 | 8/16/05 0:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.38 | |
| 5247 | 8/16/05 1:00 | 14.41 | 16.36 | 14.88 | 14.67 | 14.38 | |
| 5248 | 8/16/05 1:15 | 14.41 | 16.36 | 15.04 | 14.67 | 14.54 | |
| 5249 | 8/16/05 1:30 | 14.41 | 16.36 | 15.04 | 14.67 | 14.54 | |
| 5250 | 8/16/05 1:45 | 14.41 | 16.36 | 14.88 | 14.67 | 14.54 | |
| 5251 | 8/16/05 2:00 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5252 | 8/16/05 2:15 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5253 | 8/16/05 2:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5254 | 8/16/05 2:45 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5255 | 8/16/05 3:00 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5256 | 8/16/05 3:15 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5257 | 8/16/05 3:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5258 | 8/16/05 3:45 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5259 | 8/16/05 4:00 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5260 | 8/16/05 4:15 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5261 | 8/16/05 4:30 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5262 | 8/16/05 4:45 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5263 | 8/16/05 5:00 | 14.26 | 16.68 | 14.57 | 14.67 | 14.54 | |
| 5264 | 8/16/05 5:15 | 14.26 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5265 | 8/16/05 5:30 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5266 | 8/16/05 5:45 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5267 | 8/16/05 6:00 | 14.41 | 16.52 | 14.57 | 14.67 | 14.54 | |
| 5268 | 8/16/05 6:15 | 14.41 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 5269 | 8/16/05 6:30 | 14.41 | 16.68 | 14.73 | 14.67 | 14.54 | |
| 5270 | 8/16/05 6:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5271 | 8/16/05 7:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5272 | 8/16/05 7:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5273 | 8/16/05 7:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5274 | 8/16/05 7:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 5275 | 8/16/05 8:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5276 | 8/16/05 8:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 5277 | 8/16/05 8:30 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5278 | 8/16/05 8:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5279 | 8/16/05 9:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 5280 | 8/16/05 9:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.7 | |
| 5281 | 8/16/05 9:30 | 14.57 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5282 | 8/16/05 9:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5283 | 8/16/05 10:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5284 | 8/16/05 10:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5285 | 8/16/05 10:30 | 14.72 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5286 | 8/16/05 10:45 | 14.88 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5287 | 8/16/05 11:00 | 15.19 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5288 | 8/16/05 11:15 | 15.19 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5289 | 8/16/05 11:30 | 15.19 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5290 | 8/16/05 11:45 | 15.19 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5291 | 8/16/05 12:00 | 15.04 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5292 | 8/16/05 12:15 | 15.04 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5293 | 8/16/05 12:30 | 15.04 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5294 | 8/16/05 12:45 | 15.04 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5295 | 8/16/05 13:00 | 15.04 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5296 | 8/16/05 13:15 | 15.04 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5297 | 8/16/05 13:30 | 14.88 | 16.36 | 14.88 | 14.67 | 14.54 | |
| 5298 | 8/16/05 13:45 | 14.88 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5299 | 8/16/05 14:00 | 14.88 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5300 | 8/16/05 14:15 | 14.72 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 5301 | 8/16/05 14:30 | 14.72 | 16.52 | 14.57 | 14.82 | 14.54 | |
| 5302 | 8/16/05 14:45 | 14.57 | 16.52 | 14.57 | 14.98 | 14.54 | |
| 5303 | 8/16/05 15:00 | 14.41 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 5304 | 8/16/05 15:15 | 14.41 | 16.52 | 14.57 | 14.98 | 14.7 | |
| 5305 | 8/16/05 15:30 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5306 | 8/16/05 15:45 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5307 | 8/16/05 16:00 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5308 | 8/16/05 16:15 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5309 | 8/16/05 16:30 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5310 | 8/16/05 16:45 | 14.57 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5311 | 8/16/05 17:00 | 14.57 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5312 | 8/16/05 17:15 | 14.57 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5313 | 8/16/05 17:30 | 14.41 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5314 | 8/16/05 17:45 | 14.41 | 16.21 | 14.57 | 14.82 | 14.54 | |
| 5315 | 8/16/05 18:00 | 14.41 | 16.21 | 14.57 | 14.82 | 14.54 | |
| 5316 | 8/16/05 18:15 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5317 | 8/16/05 18:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5318 | 8/16/05 18:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5319 | 8/16/05 19:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5320 | 8/16/05 19:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5321 | 8/16/05 19:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5322 | 8/16/05 19:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5323 | 8/16/05 20:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5324 | 8/16/05 20:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5325 | 8/16/05 20:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5326 | 8/16/05 20:45 | 14.41 | 16.21 | 14.57 | 14.82 | 14.54 | |
| 5327 | 8/16/05 21:00 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5328 | 8/16/05 21:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5329 | 8/16/05 21:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5330 | 8/16/05 21:45 | 14.41 | 16.21 | 14.73 | 14.67 | 14.54 | |
| 5331 | 8/16/05 22:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5332 | 8/16/05 22:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5333 | 8/16/05 22:30 | 14.41 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5334 | 8/16/05 22:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5335 | 8/16/05 23:00 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5336 | 8/16/05 23:15 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5337 | 8/16/05 23:30 | 14.41 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 5338 | 8/16/05 23:45 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5339 | 8/17/05 0:00 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5340 | 8/17/05 0:15 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5341 | 8/17/05 0:30 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5342 | 8/17/05 0:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.23 | |
| 5343 | 8/17/05 1:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.23 | |
| 5344 | 8/17/05 1:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5345 | 8/17/05 1:30 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5346 | 8/17/05 1:45 | 14.41 | 16.21 | 14.88 | 14.67 | 14.23 | |
| 5347 | 8/17/05 2:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5348 | 8/17/05 2:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5349 | 8/17/05 2:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5350 | 8/17/05 2:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5351 | 8/17/05 3:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5352 | 8/17/05 3:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5353 | 8/17/05 3:30 | 14.41 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 5354 | 8/17/05 3:45 | 14.41 | 16.21 | 14.41 | 14.82 | 14.38 | |
| 5355 | 8/17/05 4:00 | 14.41 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5356 | 8/17/05 4:15 | 14.41 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5357 | 8/17/05 4:30 | 14.41 | 16.21 | 14.41 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5358 | 8/17/05 4:45 | 14.41 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5359 | 8/17/05 5:00 | 14.26 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5360 | 8/17/05 5:15 | 14.41 | 16.21 | 14.41 | 14.82 | 14.38 | |
| 5361 | 8/17/05 5:30 | 14.41 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 5362 | 8/17/05 5:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5363 | 8/17/05 6:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5364 | 8/17/05 6:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.54 | |
| 5365 | 8/17/05 6:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5366 | 8/17/05 6:45 | 14.41 | 16.21 | 14.73 | 14.67 | 14.54 | |
| 5367 | 8/17/05 7:00 | 14.41 | 16.21 | 14.73 | 14.67 | 14.54 | |
| 5368 | 8/17/05 7:15 | 14.41 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5369 | 8/17/05 7:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5370 | 8/17/05 7:45 | 14.41 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5371 | 8/17/05 8:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5372 | 8/17/05 8:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5373 | 8/17/05 8:30 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5374 | 8/17/05 8:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5375 | 8/17/05 9:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5376 | 8/17/05 9:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5377 | 8/17/05 9:30 | 14.57 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5378 | 8/17/05 9:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5379 | 8/17/05 10:00 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5380 | 8/17/05 10:15 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5381 | 8/17/05 10:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5382 | 8/17/05 10:45 | 14.41 | 16.36 | 15.04 | 14.67 | 14.54 | |
| 5383 | 8/17/05 11:00 | 14.41 | 16.36 | 14.88 | 14.67 | 14.54 | |
| 5384 | 8/17/05 11:15 | 14.41 | 16.36 | 15.04 | 14.67 | 14.54 | |
| 5385 | 8/17/05 11:30 | 14.41 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5386 | 8/17/05 11:45 | 14.41 | 16.36 | 14.88 | 14.67 | 14.38 | |
| 5387 | 8/17/05 12:00 | 14.41 | 16.52 | 14.88 | 14.67 | 14.38 | |
| 5388 | 8/17/05 12:15 | 14.41 | 16.52 | 14.88 | 14.67 | 14.38 | |
| 5389 | 8/17/05 12:30 | 14.41 | 16.52 | 14.73 | 14.67 | 14.38 | |
| 5390 | 8/17/05 12:45 | 14.41 | 16.52 | 14.88 | 14.82 | 14.23 | |
| 5391 | 8/17/05 13:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.23 | |
| 5392 | 8/17/05 13:15 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5393 | 8/17/05 13:30 | 14.41 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 5394 | 8/17/05 13:45 | 14.57 | 16.36 | 14.57 | 14.67 | 14.38 | |
| 5395 | 8/17/05 14:00 | 14.57 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5396 | 8/17/05 14:15 | 14.72 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5397 | 8/17/05 14:30 | 14.72 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5398 | 8/17/05 14:45 | 14.57 | 16.36 | 14.57 | 14.82 | 14.38 | |
| 5399 | 8/17/05 15:00 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5400 | 8/17/05 15:15 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5401 | 8/17/05 15:30 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5402 | 8/17/05 15:45 | 14.41 | 16.36 | 14.57 | 14.98 | 14.54 | |
| 5403 | 8/17/05 16:00 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5404 | 8/17/05 16:15 | 14.26 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5405 | 8/17/05 16:30 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5406 | 8/17/05 16:45 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5407 | 8/17/05 17:00 | 14.26 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5408 | 8/17/05 17:15 | 14.26 | 16.36 | 14.57 | 14.67 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5409 | 8/17/05 17:30 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5410 | 8/17/05 17:45 | 14.1 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5411 | 8/17/05 18:00 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5412 | 8/17/05 18:15 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5413 | 8/17/05 18:30 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5414 | 8/17/05 18:45 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5415 | 8/17/05 19:00 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5416 | 8/17/05 19:15 | 14.1 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5417 | 8/17/05 19:30 | 14.26 | 16.36 | 14.57 | 14.82 | 14.7 | |
| 5418 | 8/17/05 19:45 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5419 | 8/17/05 20:00 | 14.26 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5420 | 8/17/05 20:15 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5421 | 8/17/05 20:30 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5422 | 8/17/05 20:45 | 14.41 | 16.36 | 14.57 | 14.82 | 14.54 | |
| 5423 | 8/17/05 21:00 | 14.41 | 16.36 | 14.57 | 14.67 | 14.54 | |
| 5424 | 8/17/05 21:15 | 14.41 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5425 | 8/17/05 21:30 | 14.41 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5426 | 8/17/05 21:45 | 14.41 | 16.36 | 14.73 | 14.67 | 14.54 | |
| 5427 | 8/17/05 22:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5428 | 8/17/05 22:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5429 | 8/17/05 22:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5430 | 8/17/05 22:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5431 | 8/17/05 23:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5432 | 8/17/05 23:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5433 | 8/17/05 23:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5434 | 8/17/05 23:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5435 | 8/18/05 0:00 | 14.41 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5436 | 8/18/05 0:15 | 14.57 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5437 | 8/18/05 0:30 | 14.57 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5438 | 8/18/05 0:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5439 | 8/18/05 1:00 | 14.57 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5440 | 8/18/05 1:15 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5441 | 8/18/05 1:30 | 14.26 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5442 | 8/18/05 1:45 | 14.1 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5443 | 8/18/05 2:00 | 14.1 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5444 | 8/18/05 2:15 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5445 | 8/18/05 2:30 | 14.41 | 16.21 | 14.73 | 14.67 | 14.23 | |
| 5446 | 8/18/05 2:45 | 14.41 | 16.21 | 14.73 | 14.67 | 14.23 | |
| 5447 | 8/18/05 3:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.23 | |
| 5448 | 8/18/05 3:15 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5449 | 8/18/05 3:30 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5450 | 8/18/05 3:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5451 | 8/18/05 4:00 | 14.41 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5452 | 8/18/05 4:15 | 14.41 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5453 | 8/18/05 4:30 | 14.41 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5454 | 8/18/05 4:45 | 14.41 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5455 | 8/18/05 5:00 | 14.41 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5456 | 8/18/05 5:15 | 14.26 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5457 | 8/18/05 5:30 | 14.1 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5458 | 8/18/05 5:45 | 14.1 | 16.21 | 14.41 | 14.67 | 14.38 | |
| 5459 | 8/18/05 6:00 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5460 | 8/18/05 6:15 | 14.26 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5461 | 8/18/05 6:30 | 14.26 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5462 | 8/18/05 6:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5463 | 8/18/05 7:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5464 | 8/18/05 7:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5465 | 8/18/05 7:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5466 | 8/18/05 7:45 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5467 | 8/18/05 8:00 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5468 | 8/18/05 8:15 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5469 | 8/18/05 8:30 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5470 | 8/18/05 8:45 | 14.41 | 16.36 | 14.73 | 14.67 | 14.38 | |
| 5471 | 8/18/05 9:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5472 | 8/18/05 9:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5473 | 8/18/05 9:30 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5474 | 8/18/05 9:45 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5475 | 8/18/05 10:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5476 | 8/18/05 10:15 | 14.41 | 16.36 | 14.73 | 14.82 | 14.38 | |
| 5477 | 8/18/05 10:30 | 14.72 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5478 | 8/18/05 10:45 | 15.04 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5479 | 8/18/05 11:00 | 15.36 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5480 | 8/18/05 11:15 | 15.51 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5481 | 8/18/05 11:30 | 14.57 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5482 | 8/18/05 11:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5483 | 8/18/05 12:00 | 14.26 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5484 | 8/18/05 12:15 | 14.26 | 16.36 | 15.04 | 14.82 | 14.54 | |
| 5485 | 8/18/05 12:30 | 14.26 | 16.36 | 15.04 | 14.67 | 14.54 | |
| 5486 | 8/18/05 12:45 | 14.26 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5487 | 8/18/05 13:00 | 14.1 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5488 | 8/18/05 13:15 | 14.1 | 16.21 | 14.88 | 14.67 | 14.38 | |
| 5489 | 8/18/05 13:30 | 14.1 | 16.04 | 14.88 | 14.67 | 14.54 | |
| 5490 | 8/18/05 13:45 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5491 | 8/18/05 14:00 | 15.04 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5492 | 8/18/05 14:15 | 14.72 | 16.04 | 14.73 | 14.67 | 14.54 | |
| 5493 | 8/18/05 14:30 | 14.57 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5494 | 8/18/05 14:45 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5495 | 8/18/05 15:00 | 14.57 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5496 | 8/18/05 15:15 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5497 | 8/18/05 15:30 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5498 | 8/18/05 15:45 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5499 | 8/18/05 16:00 | 14.41 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5500 | 8/18/05 16:15 | 14.26 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5501 | 8/18/05 16:30 | 14.26 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5502 | 8/18/05 16:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 5503 | 8/18/05 17:00 | 14.26 | 16.04 | 14.73 | 14.98 | 14.54 | |
| 5504 | 8/18/05 17:15 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5505 | 8/18/05 17:30 | 14.26 | 16.04 | 14.73 | 14.82 | 14.7 | |
| 5506 | 8/18/05 17:45 | 14.26 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5507 | 8/18/05 18:00 | 14.26 | 16.21 | 14.73 | 14.98 | 14.7 | |
| 5508 | 8/18/05 18:15 | 14.1 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5509 | 8/18/05 18:30 | 14.1 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5510 | 8/18/05 18:45 | 14.1 | 16.21 | 14.57 | 14.98 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5511 | 8/18/05 19:00 | 13.94 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5512 | 8/18/05 19:15 | 13.94 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5513 | 8/18/05 19:30 | 13.94 | 16.21 | 14.57 | 14.98 | 14.7 | |
| 5514 | 8/18/05 19:45 | 14.1 | 16.21 | 14.57 | 14.98 | 14.54 | |
| 5515 | 8/18/05 20:00 | 14.1 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5516 | 8/18/05 20:15 | 14.26 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5517 | 8/18/05 20:30 | 14.26 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5518 | 8/18/05 20:45 | 14.41 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5519 | 8/18/05 21:00 | 14.41 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5520 | 8/18/05 21:15 | 14.26 | 16.36 | 14.73 | 14.82 | 14.7 | |
| 5521 | 8/18/05 21:30 | 14.26 | 16.52 | 14.73 | 14.82 | 14.54 | |
| 5522 | 8/18/05 21:45 | 14.26 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5523 | 8/18/05 22:00 | 14.26 | 16.36 | 14.73 | 14.82 | 14.54 | |
| 5524 | 8/18/05 22:15 | 14.26 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5525 | 8/18/05 22:30 | 14.41 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5526 | 8/18/05 22:45 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5527 | 8/18/05 23:00 | 14.41 | 16.36 | 14.88 | 14.98 | 14.54 | |
| 5528 | 8/18/05 23:15 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5529 | 8/18/05 23:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5530 | 8/18/05 23:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.54 | |
| 5531 | 8/19/05 0:00 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5532 | 8/19/05 0:15 | 14.41 | 16.52 | 14.88 | 14.82 | 14.54 | |
| 5533 | 8/19/05 0:30 | 14.41 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5534 | 8/19/05 0:45 | 14.41 | 16.36 | 14.88 | 14.82 | 14.38 | |
| 5535 | 8/19/05 1:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.38 | |
| 5536 | 8/19/05 1:15 | 14.26 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5537 | 8/19/05 1:30 | 13.94 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5538 | 8/19/05 1:45 | 13.94 | 16.21 | 14.88 | 14.67 | 14.38 | |
| 5539 | 8/19/05 2:00 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5540 | 8/19/05 2:15 | 13.94 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5541 | 8/19/05 2:30 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5542 | 8/19/05 2:45 | 13.94 | 16.04 | 15.04 | 14.67 | 14.38 | |
| 5543 | 8/19/05 3:00 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5544 | 8/19/05 3:15 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5545 | 8/19/05 3:30 | 14.1 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5546 | 8/19/05 3:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5547 | 8/19/05 4:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 5548 | 8/19/05 4:15 | 14.26 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 5549 | 8/19/05 4:30 | 14.1 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 5550 | 8/19/05 4:45 | 14.1 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 5551 | 8/19/05 5:00 | 14.1 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 5552 | 8/19/05 5:15 | 14.1 | 15.89 | 14.26 | 14.67 | 14.38 | |
| 5553 | 8/19/05 5:30 | 14.1 | 15.89 | 14.26 | 14.67 | 14.38 | |
| 5554 | 8/19/05 5:45 | 13.94 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 5555 | 8/19/05 6:00 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5556 | 8/19/05 6:15 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5557 | 8/19/05 6:30 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5558 | 8/19/05 6:45 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5559 | 8/19/05 7:00 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5560 | 8/19/05 7:15 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5561 | 8/19/05 7:30 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5562 | 8/19/05 7:45 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5563 | 8/19/05 8:00 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5564 | 8/19/05 8:15 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5565 | 8/19/05 8:30 | 14.26 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5566 | 8/19/05 8:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5567 | 8/19/05 9:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5568 | 8/19/05 9:15 | 14.26 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 5569 | 8/19/05 9:30 | 14.26 | 16.21 | 14.57 | 14.82 | 14.38 | |
| 5570 | 8/19/05 9:45 | 14.26 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5571 | 8/19/05 10:00 | 14.26 | 16.21 | 14.73 | 14.98 | 14.38 | |
| 5572 | 8/19/05 10:15 | 14.26 | 16.21 | 14.73 | 14.98 | 14.38 | |
| 5573 | 8/19/05 10:30 | 14.26 | 16.21 | 14.73 | 14.98 | 14.38 | |
| 5574 | 8/19/05 10:45 | 14.26 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5575 | 8/19/05 11:00 | 14.41 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5576 | 8/19/05 11:15 | 14.88 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5577 | 8/19/05 11:30 | 14.72 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5578 | 8/19/05 11:45 | 14.72 | 16.04 | 14.73 | 14.98 | 14.38 | |
| 5579 | 8/19/05 12:00 | 14.57 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5580 | 8/19/05 12:15 | 14.41 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5581 | 8/19/05 12:30 | 14.26 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5582 | 8/19/05 12:45 | 14.26 | 16.21 | 14.88 | 14.67 | 14.38 | |
| 5583 | 8/19/05 13:00 | 14.1 | 16.21 | 14.88 | 14.67 | 14.23 | |
| 5584 | 8/19/05 13:15 | 14.1 | 16.21 | 14.88 | 14.67 | 14.23 | |
| 5585 | 8/19/05 13:30 | 14.1 | 16.21 | 14.88 | 14.82 | 14.23 | |
| 5586 | 8/19/05 13:45 | 13.94 | 16.36 | 14.88 | 14.82 | 14.23 | |
| 5587 | 8/19/05 14:00 | 14.1 | 16.04 | 14.73 | 14.82 | 14.23 | |
| 5588 | 8/19/05 14:15 | 14.41 | 16.04 | 14.88 | 14.82 | 14.23 | |
| 5589 | 8/19/05 14:30 | 14.88 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5590 | 8/19/05 14:45 | 14.88 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5591 | 8/19/05 15:00 | 14.72 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5592 | 8/19/05 15:15 | 14.72 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5593 | 8/19/05 15:30 | 14.72 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5594 | 8/19/05 15:45 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5595 | 8/19/05 16:00 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5596 | 8/19/05 16:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5597 | 8/19/05 16:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5598 | 8/19/05 16:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5599 | 8/19/05 17:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5600 | 8/19/05 17:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5601 | 8/19/05 17:30 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5602 | 8/19/05 17:45 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5603 | 8/19/05 18:00 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5604 | 8/19/05 18:15 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5605 | 8/19/05 18:30 | 14.1 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5606 | 8/19/05 18:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5607 | 8/19/05 19:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5608 | 8/19/05 19:15 | 14.1 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5609 | 8/19/05 19:30 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5610 | 8/19/05 19:45 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5611 | 8/19/05 20:00 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5612 | 8/19/05 20:15 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5613 | 8/19/05 20:30 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5614 | 8/19/05 20:45 | 13.94 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5615 | 8/19/05 21:00 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5616 | 8/19/05 21:15 | 14.26 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5617 | 8/19/05 21:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5618 | 8/19/05 21:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5619 | 8/19/05 22:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5620 | 8/19/05 22:15 | 14.26 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5621 | 8/19/05 22:30 | 14.26 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5622 | 8/19/05 22:45 | 14.41 | 16.04 | 14.73 | 14.98 | 14.38 | |
| 5623 | 8/19/05 23:00 | 14.41 | 16.21 | 14.73 | 14.98 | 14.38 | |
| 5624 | 8/19/05 23:15 | 14.41 | 16.21 | 14.73 | 15.14 | 14.38 | |
| 5625 | 8/19/05 23:30 | 14.41 | 16.21 | 14.73 | 14.98 | 14.54 | |
| 5626 | 8/19/05 23:45 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5627 | 8/20/05 0:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.54 | |
| 5628 | 8/20/05 0:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5629 | 8/20/05 0:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5630 | 8/20/05 0:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.54 | |
| 5631 | 8/20/05 1:00 | 14.41 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5632 | 8/20/05 1:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5633 | 8/20/05 1:30 | 14.41 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5634 | 8/20/05 1:45 | 14.41 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5635 | 8/20/05 2:00 | 14.26 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5636 | 8/20/05 2:15 | 14.26 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5637 | 8/20/05 2:30 | 14.26 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5638 | 8/20/05 2:45 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5639 | 8/20/05 3:00 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5640 | 8/20/05 3:15 | 13.94 | 16.04 | 15.04 | 14.67 | 14.38 | |
| 5641 | 8/20/05 3:30 | 13.94 | 16.04 | 14.88 | 14.67 | 14.23 | |
| 5642 | 8/20/05 3:45 | 13.94 | 16.04 | 14.88 | 14.67 | 14.23 | |
| 5643 | 8/20/05 4:00 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5644 | 8/20/05 4:15 | 13.94 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 5645 | 8/20/05 4:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5646 | 8/20/05 4:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5647 | 8/20/05 5:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5648 | 8/20/05 5:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5649 | 8/20/05 5:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5650 | 8/20/05 5:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5651 | 8/20/05 6:00 | 14.26 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5652 | 8/20/05 6:15 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5653 | 8/20/05 6:30 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5654 | 8/20/05 6:45 | 14.1 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5655 | 8/20/05 7:00 | 13.94 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5656 | 8/20/05 7:15 | 13.94 | 16.04 | 14.41 | 14.67 | 14.38 | |
| 5657 | 8/20/05 7:30 | 13.94 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5658 | 8/20/05 7:45 | 13.94 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5659 | 8/20/05 8:00 | 13.94 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5660 | 8/20/05 8:15 | 13.94 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5661 | 8/20/05 8:30 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5662 | 8/20/05 8:45 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5663 | 8/20/05 9:00 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5664 | 8/20/05 9:15 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5665 | 8/20/05 9:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5666 | 8/20/05 9:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5667 | 8/20/05 10:00 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5668 | 8/20/05 10:15 | 14.26 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5669 | 8/20/05 10:30 | 14.26 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5670 | 8/20/05 10:45 | 14.26 | 16.21 | 14.73 | 14.82 | 14.54 | |
| 5671 | 8/20/05 11:00 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 5672 | 8/20/05 11:15 | 14.26 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 5673 | 8/20/05 11:30 | 14.26 | 16.04 | 14.88 | 14.82 | 14.54 | |
| 5674 | 8/20/05 11:45 | 14.41 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5675 | 8/20/05 12:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.38 | |
| 5676 | 8/20/05 12:15 | 14.72 | 16.21 | 14.88 | 14.98 | 14.38 | |
| 5677 | 8/20/05 12:30 | 14.57 | 16.21 | 14.88 | 14.98 | 14.38 | |
| 5678 | 8/20/05 12:45 | 14.57 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5679 | 8/20/05 13:00 | 14.41 | 16.21 | 14.88 | 14.98 | 14.38 | |
| 5680 | 8/20/05 13:15 | 14.1 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5681 | 8/20/05 13:30 | 14.1 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5682 | 8/20/05 13:45 | 14.1 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5683 | 8/20/05 14:00 | 14.1 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5684 | 8/20/05 14:15 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5685 | 8/20/05 14:30 | 14.57 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5686 | 8/20/05 14:45 | 15.19 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5687 | 8/20/05 15:00 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5688 | 8/20/05 15:15 | 14.88 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 5689 | 8/20/05 15:30 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5690 | 8/20/05 15:45 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5691 | 8/20/05 16:00 | 14.57 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5692 | 8/20/05 16:15 | 14.57 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5693 | 8/20/05 16:30 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5694 | 8/20/05 16:45 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5695 | 8/20/05 17:00 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5696 | 8/20/05 17:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5697 | 8/20/05 17:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5698 | 8/20/05 17:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5699 | 8/20/05 18:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5700 | 8/20/05 18:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5701 | 8/20/05 18:30 | 14.26 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5702 | 8/20/05 18:45 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5703 | 8/20/05 19:00 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5704 | 8/20/05 19:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5705 | 8/20/05 19:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5706 | 8/20/05 19:45 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5707 | 8/20/05 20:00 | 14.26 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5708 | 8/20/05 20:15 | 14.1 | 16.04 | 14.57 | 14.82 | 14.54 | |
| 5709 | 8/20/05 20:30 | 14.1 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5710 | 8/20/05 20:45 | 14.1 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5711 | 8/20/05 21:00 | 14.1 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5712 | 8/20/05 21:15 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5713 | 8/20/05 21:30 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5714 | 8/20/05 21:45 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5715 | 8/20/05 22:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5716 | 8/20/05 22:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5717 | 8/20/05 22:30 | 14.1 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5718 | 8/20/05 22:45 | 14.1 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 5719 | 8/20/05 23:00 | 14.1 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5720 | 8/20/05 23:15 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5721 | 8/20/05 23:30 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5722 | 8/20/05 23:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5723 | 8/21/05 0:00 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5724 | 8/21/05 0:15 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5725 | 8/21/05 0:30 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5726 | 8/21/05 0:45 | 14.41 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5727 | 8/21/05 1:00 | 14.41 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5728 | 8/21/05 1:15 | 14.41 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5729 | 8/21/05 1:30 | 14.57 | 16.21 | 14.88 | 14.82 | 14.38 | |
| 5730 | 8/21/05 1:45 | 14.57 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5731 | 8/21/05 2:00 | 14.57 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 5732 | 8/21/05 2:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5733 | 8/21/05 2:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5734 | 8/21/05 2:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5735 | 8/21/05 3:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5736 | 8/21/05 3:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5737 | 8/21/05 3:30 | 14.26 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 5738 | 8/21/05 3:45 | 14.26 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 5739 | 8/21/05 4:00 | 14.1 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5740 | 8/21/05 4:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5741 | 8/21/05 4:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5742 | 8/21/05 4:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 5743 | 8/21/05 5:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 5744 | 8/21/05 5:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 5745 | 8/21/05 5:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5746 | 8/21/05 5:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5747 | 8/21/05 6:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5748 | 8/21/05 6:15 | 14.26 | 15.89 | 14.41 | 14.51 | 14.38 | |
| 5749 | 8/21/05 6:30 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5750 | 8/21/05 6:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5751 | 8/21/05 7:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5752 | 8/21/05 7:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5753 | 8/21/05 7:30 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5754 | 8/21/05 7:45 | 14.1 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 5755 | 8/21/05 8:00 | 14.1 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 5756 | 8/21/05 8:15 | 13.94 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5757 | 8/21/05 8:30 | 13.94 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5758 | 8/21/05 8:45 | 13.94 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5759 | 8/21/05 9:00 | 13.94 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5760 | 8/21/05 9:15 | 13.94 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5761 | 8/21/05 9:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5762 | 8/21/05 9:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5763 | 8/21/05 10:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5764 | 8/21/05 10:15 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5765 | 8/21/05 10:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5766 | 8/21/05 10:45 | 14.1 | 16.04 | 14.57 | 14.67 | 14.54 | |
| 5767 | 8/21/05 11:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5768 | 8/21/05 11:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5769 | 8/21/05 11:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5770 | 8/21/05 11:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5771 | 8/21/05 12:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 5772 | 8/21/05 12:15 | 14.41 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 5773 | 8/21/05 12:30 | 14.41 | 16.04 | 14.57 | 14.98 | 14.38 | |
| 5774 | 8/21/05 12:45 | 14.41 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 5775 | 8/21/05 13:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5776 | 8/21/05 13:15 | 14.57 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5777 | 8/21/05 13:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5778 | 8/21/05 13:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5779 | 8/21/05 14:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5780 | 8/21/05 14:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5781 | 8/21/05 14:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5782 | 8/21/05 14:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5783 | 8/21/05 15:00 | 14.1 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5784 | 8/21/05 15:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5785 | 8/21/05 15:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5786 | 8/21/05 15:45 | 14.57 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5787 | 8/21/05 16:00 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5788 | 8/21/05 16:15 | 15.19 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5789 | 8/21/05 16:30 | 15.04 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5790 | 8/21/05 16:45 | 14.88 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5791 | 8/21/05 17:00 | 14.72 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5792 | 8/21/05 17:15 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5793 | 8/21/05 17:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5794 | 8/21/05 17:45 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5795 | 8/21/05 18:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5796 | 8/21/05 18:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5797 | 8/21/05 18:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5798 | 8/21/05 18:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5799 | 8/21/05 19:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5800 | 8/21/05 19:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5801 | 8/21/05 19:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5802 | 8/21/05 19:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5803 | 8/21/05 20:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5804 | 8/21/05 20:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5805 | 8/21/05 20:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5806 | 8/21/05 20:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5807 | 8/21/05 21:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5808 | 8/21/05 21:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5809 | 8/21/05 21:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5810 | 8/21/05 21:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5811 | 8/21/05 22:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5812 | 8/21/05 22:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5813 | 8/21/05 22:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5814 | 8/21/05 22:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5815 | 8/21/05 23:00 | 14.1 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 5816 | 8/21/05 23:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5817 | 8/21/05 23:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5818 | 8/21/05 23:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5819 | 8/22/05 0:00 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 5820 | 8/22/05 0:15 | 14.1 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 5821 | 8/22/05 0:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5822 | 8/22/05 0:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5823 | 8/22/05 1:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5824 | 8/22/05 1:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5825 | 8/22/05 1:30 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 5826 | 8/22/05 1:45 | 14.26 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5827 | 8/22/05 2:00 | 14.41 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5828 | 8/22/05 2:15 | 14.41 | 16.04 | 14.88 | 14.98 | 14.38 | |
| 5829 | 8/22/05 2:30 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 5830 | 8/22/05 2:45 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 5831 | 8/22/05 3:00 | 14.1 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 5832 | 8/22/05 3:15 | 14.1 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 5833 | 8/22/05 3:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5834 | 8/22/05 3:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5835 | 8/22/05 4:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5836 | 8/22/05 4:15 | 14.1 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 5837 | 8/22/05 4:30 | 14.1 | 15.89 | 14.88 | 14.67 | 14.23 | |
| 5838 | 8/22/05 4:45 | 14.1 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5839 | 8/22/05 5:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5840 | 8/22/05 5:15 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5841 | 8/22/05 5:30 | 13.94 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5842 | 8/22/05 5:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 5843 | 8/22/05 6:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5844 | 8/22/05 6:15 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5845 | 8/22/05 6:30 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5846 | 8/22/05 6:45 | 14.26 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 5847 | 8/22/05 7:00 | 14.1 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 5848 | 8/22/05 7:15 | 14.1 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 5849 | 8/22/05 7:30 | 14.1 | 15.73 | 14.41 | 14.67 | 14.38 | |
| 5850 | 8/22/05 7:45 | 14.26 | 15.73 | 14.41 | 14.67 | 14.38 | |
| 5851 | 8/22/05 8:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5852 | 8/22/05 8:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5853 | 8/22/05 8:30 | 14.1 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 5854 | 8/22/05 8:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5855 | 8/22/05 9:00 | 14.1 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 5856 | 8/22/05 9:15 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5857 | 8/22/05 9:30 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 5858 | 8/22/05 9:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5859 | 8/22/05 10:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5860 | 8/22/05 10:15 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5861 | 8/22/05 10:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5862 | 8/22/05 10:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5863 | 8/22/05 11:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 5864 | 8/22/05 11:15 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5865 | 8/22/05 11:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5866 | 8/22/05 11:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5867 | 8/22/05 12:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5868 | 8/22/05 12:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5869 | 8/22/05 12:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5870 | 8/22/05 12:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5871 | 8/22/05 13:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5872 | 8/22/05 13:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5873 | 8/22/05 13:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5874 | 8/22/05 13:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5875 | 8/22/05 14:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5876 | 8/22/05 14:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5877 | 8/22/05 14:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5878 | 8/22/05 14:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5879 | 8/22/05 15:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5880 | 8/22/05 15:15 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5881 | 8/22/05 15:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5882 | 8/22/05 15:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5883 | 8/22/05 16:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5884 | 8/22/05 16:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5885 | 8/22/05 16:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5886 | 8/22/05 16:45 | 14.72 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 5887 | 8/22/05 17:00 | 15.36 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5888 | 8/22/05 17:15 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5889 | 8/22/05 17:30 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5890 | 8/22/05 17:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5891 | 8/22/05 18:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5892 | 8/22/05 18:15 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5893 | 8/22/05 18:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5894 | 8/22/05 18:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5895 | 8/22/05 19:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5896 | 8/22/05 19:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5897 | 8/22/05 19:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5898 | 8/22/05 19:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5899 | 8/22/05 20:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5900 | 8/22/05 20:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5901 | 8/22/05 20:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5902 | 8/22/05 20:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5903 | 8/22/05 21:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5904 | 8/22/05 21:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5905 | 8/22/05 21:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5906 | 8/22/05 21:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5907 | 8/22/05 22:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5908 | 8/22/05 22:15 | 14.1 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 5909 | 8/22/05 22:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5910 | 8/22/05 22:45 | 14.1 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 5911 | 8/22/05 23:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5912 | 8/22/05 23:15 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5913 | 8/22/05 23:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5914 | 8/22/05 23:45 | 14.1 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 5915 | 8/23/05 0:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5916 | 8/23/05 0:15 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5917 | 8/23/05 0:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5918 | 8/23/05 0:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5919 | 8/23/05 1:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5920 | 8/23/05 1:15 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5921 | 8/23/05 1:30 | 14.1 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 5922 | 8/23/05 1:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 5923 | 8/23/05 2:00 | 14.41 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 5924 | 8/23/05 2:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 5925 | 8/23/05 2:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 5926 | 8/23/05 2:45 | 14.41 | 16.04 | 14.88 | 14.82 | 14.54 | |
| 5927 | 8/23/05 3:00 | 14.41 | 16.04 | 15.04 | 14.82 | 14.54 | |
| 5928 | 8/23/05 3:15 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 5929 | 8/23/05 3:30 | 14.26 | 15.89 | 15.2 | 14.82 | 14.38 | |
| 5930 | 8/23/05 3:45 | 14.26 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 5931 | 8/23/05 4:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5932 | 8/23/05 4:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 5933 | 8/23/05 4:30 | 14.41 | 15.89 | 15.04 | 14.98 | 14.38 | |
| 5934 | 8/23/05 4:45 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 5935 | 8/23/05 5:00 | 14.26 | 15.89 | 15.2 | 14.82 | 14.38 | |
| 5936 | 8/23/05 5:15 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 5937 | 8/23/05 5:30 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 5938 | 8/23/05 5:45 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 5939 | 8/23/05 6:00 | 14.1 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5940 | 8/23/05 6:15 | 14.1 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5941 | 8/23/05 6:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5942 | 8/23/05 6:45 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5943 | 8/23/05 7:00 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5944 | 8/23/05 7:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5945 | 8/23/05 7:30 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5946 | 8/23/05 7:45 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5947 | 8/23/05 8:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5948 | 8/23/05 8:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5949 | 8/23/05 8:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5950 | 8/23/05 8:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5951 | 8/23/05 9:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5952 | 8/23/05 9:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5953 | 8/23/05 9:30 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5954 | 8/23/05 9:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5955 | 8/23/05 10:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5956 | 8/23/05 10:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5957 | 8/23/05 10:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5958 | 8/23/05 10:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 5959 | 8/23/05 11:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5960 | 8/23/05 11:15 | 14.1 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 5961 | 8/23/05 11:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5962 | 8/23/05 11:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5963 | 8/23/05 12:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 5964 | 8/23/05 12:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 5965 | 8/23/05 12:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 5966 | 8/23/05 12:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 5967 | 8/23/05 13:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 5968 | 8/23/05 13:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 5969 | 8/23/05 13:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 5970 | 8/23/05 13:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5971 | 8/23/05 14:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5972 | 8/23/05 14:15 | 14.26 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 5973 | 8/23/05 14:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5974 | 8/23/05 14:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5975 | 8/23/05 15:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 5976 | 8/23/05 15:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5977 | 8/23/05 15:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5978 | 8/23/05 15:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5979 | 8/23/05 16:00 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5980 | 8/23/05 16:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5981 | 8/23/05 16:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5982 | 8/23/05 16:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5983 | 8/23/05 17:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5984 | 8/23/05 17:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5985 | 8/23/05 17:30 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5986 | 8/23/05 17:45 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 5987 | 8/23/05 18:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 5988 | 8/23/05 18:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5989 | 8/23/05 18:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5990 | 8/23/05 18:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5991 | 8/23/05 19:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5992 | 8/23/05 19:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5993 | 8/23/05 19:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5994 | 8/23/05 19:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5995 | 8/23/05 20:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 5996 | 8/23/05 20:15 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5997 | 8/23/05 20:30 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5998 | 8/23/05 20:45 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 5999 | 8/23/05 21:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6000 | 8/23/05 21:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6001 | 8/23/05 21:30 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6002 | 8/23/05 21:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6003 | 8/23/05 22:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6004 | 8/23/05 22:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6005 | 8/23/05 22:30 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6006 | 8/23/05 22:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6007 | 8/23/05 23:00 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6008 | 8/23/05 23:15 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6009 | 8/23/05 23:30 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6010 | 8/23/05 23:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6011 | 8/24/05 0:00 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6012 | 8/24/05 0:15 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6013 | 8/24/05 0:30 | 14.1 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6014 | 8/24/05 0:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6015 | 8/24/05 1:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6016 | 8/24/05 1:15 | 14.1 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 6017 | 8/24/05 1:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6018 | 8/24/05 1:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6019 | 8/24/05 2:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6020 | 8/24/05 2:15 | 14.1 | 15.89 | 14.88 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6021 | 8/24/05 2:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6022 | 8/24/05 2:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6023 | 8/24/05 3:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6024 | 8/24/05 3:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6025 | 8/24/05 3:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6026 | 8/24/05 3:45 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6027 | 8/24/05 4:00 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6028 | 8/24/05 4:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6029 | 8/24/05 4:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6030 | 8/24/05 4:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6031 | 8/24/05 5:00 | 14.26 | 15.73 | 14.88 | 14.98 | 14.38 | |
| 6032 | 8/24/05 5:15 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 6033 | 8/24/05 5:30 | 14.1 | 15.73 | 14.88 | 14.82 | 14.38 | |
| 6034 | 8/24/05 5:45 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 6035 | 8/24/05 6:00 | 14.1 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 6036 | 8/24/05 6:15 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 6037 | 8/24/05 6:30 | 14.26 | 15.73 | 15.04 | 14.67 | 14.38 | |
| 6038 | 8/24/05 6:45 | 14.1 | 15.73 | 15.04 | 14.67 | 14.23 | |
| 6039 | 8/24/05 7:00 | 14.41 | 15.73 | 14.88 | 14.67 | 14.23 | |
| 6040 | 8/24/05 7:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6041 | 8/24/05 7:30 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6042 | 8/24/05 7:45 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6043 | 8/24/05 8:00 | 14.57 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6044 | 8/24/05 8:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6045 | 8/24/05 8:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6046 | 8/24/05 8:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6047 | 8/24/05 9:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6048 | 8/24/05 9:15 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6049 | 8/24/05 9:30 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6050 | 8/24/05 9:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6051 | 8/24/05 10:00 | 14.26 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6052 | 8/24/05 10:15 | 14.1 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6053 | 8/24/05 10:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6054 | 8/24/05 10:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6055 | 8/24/05 11:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6056 | 8/24/05 11:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6057 | 8/24/05 11:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6058 | 8/24/05 11:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6059 | 8/24/05 12:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6060 | 8/24/05 12:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6061 | 8/24/05 12:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6062 | 8/24/05 12:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6063 | 8/24/05 13:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6064 | 8/24/05 13:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6065 | 8/24/05 13:30 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 6066 | 8/24/05 13:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6067 | 8/24/05 14:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 6068 | 8/24/05 14:15 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 6069 | 8/24/05 14:30 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 6070 | 8/24/05 14:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6071 | 8/24/05 15:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6072 | 8/24/05 15:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6073 | 8/24/05 15:30 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6074 | 8/24/05 15:45 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6075 | 8/24/05 16:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6076 | 8/24/05 16:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6077 | 8/24/05 16:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6078 | 8/24/05 16:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6079 | 8/24/05 17:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6080 | 8/24/05 17:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6081 | 8/24/05 17:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6082 | 8/24/05 17:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6083 | 8/24/05 18:00 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6084 | 8/24/05 18:15 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6085 | 8/24/05 18:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6086 | 8/24/05 18:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6087 | 8/24/05 19:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6088 | 8/24/05 19:15 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6089 | 8/24/05 19:30 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6090 | 8/24/05 19:45 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6091 | 8/24/05 20:00 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6092 | 8/24/05 20:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6093 | 8/24/05 20:30 | 14.41 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 6094 | 8/24/05 20:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6095 | 8/24/05 21:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6096 | 8/24/05 21:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6097 | 8/24/05 21:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6098 | 8/24/05 21:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6099 | 8/24/05 22:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6100 | 8/24/05 22:15 | 14.26 | 15.73 | 14.57 | 14.98 | 14.38 | |
| 6101 | 8/24/05 22:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6102 | 8/24/05 22:45 | 14.1 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6103 | 8/24/05 23:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6104 | 8/24/05 23:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6105 | 8/24/05 23:30 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6106 | 8/24/05 23:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6107 | 8/25/05 0:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6108 | 8/25/05 0:15 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6109 | 8/25/05 0:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6110 | 8/25/05 0:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6111 | 8/25/05 1:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6112 | 8/25/05 1:15 | 14.26 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 6113 | 8/25/05 1:30 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6114 | 8/25/05 1:45 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6115 | 8/25/05 2:00 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6116 | 8/25/05 2:15 | 14.1 | 15.89 | 15.04 | 14.98 | 14.38 | |
| 6117 | 8/25/05 2:30 | 14.1 | 15.89 | 15.04 | 14.98 | 14.38 | |
| 6118 | 8/25/05 2:45 | 14.26 | 16.04 | 15.04 | 15.14 | 14.38 | |
| 6119 | 8/25/05 3:00 | 14.26 | 16.04 | 15.04 | 15.14 | 14.38 | |
| 6120 | 8/25/05 3:15 | 14.26 | 15.89 | 15.04 | 15.29 | 14.38 | |
| 6121 | 8/25/05 3:30 | 14.41 | 15.73 | 15.2 | 15.29 | 14.38 | |
| 6122 | 8/25/05 3:45 | 14.26 | 15.73 | 15.04 | 15.29 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6123 | 8/25/05 4:00 | 14.41 | 15.73 | 15.04 | 15.29 | 14.38 | |
| 6124 | 8/25/05 4:15 | 14.41 | 15.73 | 15.04 | 15.46 | 14.38 | |
| 6125 | 8/25/05 4:30 | 14.41 | 15.73 | 15.2 | 15.46 | 14.38 | |
| 6126 | 8/25/05 4:45 | 14.57 | 15.89 | 15.2 | 15.46 | 14.38 | |
| 6127 | 8/25/05 5:00 | 14.72 | 16.04 | 15.04 | 15.14 | 14.38 | |
| 6128 | 8/25/05 5:15 | 15.04 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6129 | 8/25/05 5:30 | 14.72 | 16.04 | 15.04 | 14.98 | 14.38 | |
| 6130 | 8/25/05 5:45 | 14.57 | 16.04 | 15.2 | 14.67 | 14.38 | |
| 6131 | 8/25/05 6:00 | 14.57 | 16.04 | 15.2 | 14.67 | 14.38 | |
| 6132 | 8/25/05 6:15 | 14.57 | 16.04 | 15.2 | 14.67 | 14.38 | |
| 6133 | 8/25/05 6:30 | 14.41 | 15.89 | 15.2 | 14.67 | 14.54 | |
| 6134 | 8/25/05 6:45 | 14.41 | 15.89 | 15.2 | 14.67 | 14.54 | |
| 6135 | 8/25/05 7:00 | 14.26 | 15.89 | 15.2 | 14.67 | 14.54 | |
| 6136 | 8/25/05 7:15 | 14.26 | 15.89 | 15.2 | 14.67 | 14.38 | |
| 6137 | 8/25/05 7:30 | 14.57 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 6138 | 8/25/05 7:45 | 15.04 | 15.73 | 15.04 | 14.67 | 14.38 | |
| 6139 | 8/25/05 8:00 | 15.36 | 15.73 | 15.04 | 14.67 | 14.38 | |
| 6140 | 8/25/05 8:15 | 15.51 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 6141 | 8/25/05 8:30 | 15.51 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 6142 | 8/25/05 8:45 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6143 | 8/25/05 9:00 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6144 | 8/25/05 9:15 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6145 | 8/25/05 9:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6146 | 8/25/05 9:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6147 | 8/25/05 10:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6148 | 8/25/05 10:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6149 | 8/25/05 10:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6150 | 8/25/05 10:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 6151 | 8/25/05 11:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6152 | 8/25/05 11:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6153 | 8/25/05 11:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6154 | 8/25/05 11:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6155 | 8/25/05 12:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6156 | 8/25/05 12:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 6157 | 8/25/05 12:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 6158 | 8/25/05 12:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6159 | 8/25/05 13:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6160 | 8/25/05 13:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6161 | 8/25/05 13:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6162 | 8/25/05 13:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6163 | 8/25/05 14:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6164 | 8/25/05 14:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6165 | 8/25/05 14:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6166 | 8/25/05 14:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6167 | 8/25/05 15:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6168 | 8/25/05 15:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6169 | 8/25/05 15:30 | 14.26 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 6170 | 8/25/05 15:45 | 14.41 | 15.89 | 14.73 | 14.98 | 14.38 | |
| 6171 | 8/25/05 16:00 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6172 | 8/25/05 16:15 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6173 | 8/25/05 16:30 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6174 | 8/25/05 16:45 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6175 | 8/25/05 17:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6176 | 8/25/05 17:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6177 | 8/25/05 17:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6178 | 8/25/05 17:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6179 | 8/25/05 18:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6180 | 8/25/05 18:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6181 | 8/25/05 18:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6182 | 8/25/05 18:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6183 | 8/25/05 19:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6184 | 8/25/05 19:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6185 | 8/25/05 19:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6186 | 8/25/05 19:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6187 | 8/25/05 20:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6188 | 8/25/05 20:15 | 14.1 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6189 | 8/25/05 20:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6190 | 8/25/05 20:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6191 | 8/25/05 21:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6192 | 8/25/05 21:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6193 | 8/25/05 21:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6194 | 8/25/05 21:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6195 | 8/25/05 22:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6196 | 8/25/05 22:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6197 | 8/25/05 22:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6198 | 8/25/05 22:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6199 | 8/25/05 23:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6200 | 8/25/05 23:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6201 | 8/25/05 23:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6202 | 8/25/05 23:45 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6203 | 8/26/05 0:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6204 | 8/26/05 0:15 | 14.1 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6205 | 8/26/05 0:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6206 | 8/26/05 0:45 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6207 | 8/26/05 1:00 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6208 | 8/26/05 1:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6209 | 8/26/05 1:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6210 | 8/26/05 1:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 6211 | 8/26/05 2:00 | 14.1 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6212 | 8/26/05 2:15 | 14.1 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6213 | 8/26/05 2:30 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6214 | 8/26/05 2:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6215 | 8/26/05 3:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6216 | 8/26/05 3:15 | 14.1 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6217 | 8/26/05 3:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6218 | 8/26/05 3:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6219 | 8/26/05 4:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6220 | 8/26/05 4:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6221 | 8/26/05 4:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6222 | 8/26/05 4:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6223 | 8/26/05 5:00 | 14.57 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6224 | 8/26/05 5:15 | 14.57 | 15.89 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6225 | 8/26/05 5:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6226 | 8/26/05 5:45 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6227 | 8/26/05 6:00 | 14.57 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6228 | 8/26/05 6:15 | 14.72 | 15.89 | 15.04 | 14.67 | 14.54 | |
| 6229 | 8/26/05 6:30 | 14.41 | 15.89 | 15.04 | 14.67 | 14.54 | |
| 6230 | 8/26/05 6:45 | 14.26 | 16.04 | 14.88 | 14.67 | 14.54 | |
| 6231 | 8/26/05 7:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6232 | 8/26/05 7:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6233 | 8/26/05 7:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6234 | 8/26/05 7:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6235 | 8/26/05 8:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6236 | 8/26/05 8:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6237 | 8/26/05 8:30 | 14.72 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6238 | 8/26/05 8:45 | 15.04 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6239 | 8/26/05 9:00 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6240 | 8/26/05 9:15 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6241 | 8/26/05 9:30 | 15.04 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6242 | 8/26/05 9:45 | 15.04 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6243 | 8/26/05 10:00 | 14.57 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6244 | 8/26/05 10:15 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6245 | 8/26/05 10:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6246 | 8/26/05 10:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6247 | 8/26/05 11:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6248 | 8/26/05 11:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6249 | 8/26/05 11:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6250 | 8/26/05 11:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6251 | 8/26/05 12:00 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6252 | 8/26/05 12:15 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6253 | 8/26/05 12:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6254 | 8/26/05 12:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6255 | 8/26/05 13:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6256 | 8/26/05 13:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6257 | 8/26/05 13:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6258 | 8/26/05 13:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6259 | 8/26/05 14:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6260 | 8/26/05 14:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6261 | 8/26/05 14:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6262 | 8/26/05 14:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6263 | 8/26/05 15:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6264 | 8/26/05 15:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6265 | 8/26/05 15:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6266 | 8/26/05 15:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6267 | 8/26/05 16:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6268 | 8/26/05 16:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6269 | 8/26/05 16:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6270 | 8/26/05 16:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6271 | 8/26/05 17:00 | 14.26 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6272 | 8/26/05 17:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6273 | 8/26/05 17:30 | 14.26 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6274 | 8/26/05 17:45 | 14.41 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6275 | 8/26/05 18:00 | 14.41 | 16.04 | 14.73 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6276 | 8/26/05 18:15 | 14.41 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6277 | 8/26/05 18:30 | 14.41 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 6278 | 8/26/05 18:45 | 14.41 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 6279 | 8/26/05 19:00 | 14.41 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6280 | 8/26/05 19:15 | 14.41 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6281 | 8/26/05 19:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6282 | 8/26/05 19:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6283 | 8/26/05 20:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6284 | 8/26/05 20:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6285 | 8/26/05 20:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6286 | 8/26/05 20:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6287 | 8/26/05 21:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6288 | 8/26/05 21:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6289 | 8/26/05 21:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6290 | 8/26/05 21:45 | 14.57 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6291 | 8/26/05 22:00 | 14.57 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6292 | 8/26/05 22:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6293 | 8/26/05 22:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6294 | 8/26/05 22:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6295 | 8/26/05 23:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6296 | 8/26/05 23:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6297 | 8/26/05 23:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6298 | 8/26/05 23:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6299 | 8/27/05 0:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6300 | 8/27/05 0:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6301 | 8/27/05 0:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6302 | 8/27/05 0:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6303 | 8/27/05 1:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6304 | 8/27/05 1:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6305 | 8/27/05 1:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6306 | 8/27/05 1:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6307 | 8/27/05 2:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6308 | 8/27/05 2:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6309 | 8/27/05 2:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6310 | 8/27/05 2:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6311 | 8/27/05 3:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6312 | 8/27/05 3:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6313 | 8/27/05 3:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6314 | 8/27/05 3:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6315 | 8/27/05 4:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6316 | 8/27/05 4:15 | 14.26 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 6317 | 8/27/05 4:30 | 14.26 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 6318 | 8/27/05 4:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6319 | 8/27/05 5:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6320 | 8/27/05 5:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6321 | 8/27/05 5:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6322 | 8/27/05 5:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6323 | 8/27/05 6:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6324 | 8/27/05 6:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6325 | 8/27/05 6:30 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6326 | 8/27/05 6:45 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6327 | 8/27/05 7:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6328 | 8/27/05 7:15 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6329 | 8/27/05 7:30 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6330 | 8/27/05 7:45 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6331 | 8/27/05 8:00 | 14.26 | 16.04 | 15.04 | 14.82 | 14.38 | |
| 6332 | 8/27/05 8:15 | 14.26 | 16.04 | 14.88 | 14.82 | 14.54 | |
| 6333 | 8/27/05 8:30 | 14.26 | 15.89 | 15.04 | 14.67 | 14.54 | |
| 6334 | 8/27/05 8:45 | 14.41 | 15.89 | 15.04 | 14.67 | 14.54 | |
| 6335 | 8/27/05 9:00 | 14.72 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6336 | 8/27/05 9:15 | 15.36 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6337 | 8/27/05 9:30 | 15.36 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6338 | 8/27/05 9:45 | 15.36 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6339 | 8/27/05 10:00 | 15.19 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6340 | 8/27/05 10:15 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6341 | 8/27/05 10:30 | 14.88 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6342 | 8/27/05 10:45 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6343 | 8/27/05 11:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6344 | 8/27/05 11:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6345 | 8/27/05 11:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6346 | 8/27/05 11:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6347 | 8/27/05 12:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6348 | 8/27/05 12:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6349 | 8/27/05 12:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6350 | 8/27/05 12:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6351 | 8/27/05 13:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6352 | 8/27/05 13:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6353 | 8/27/05 13:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6354 | 8/27/05 13:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6355 | 8/27/05 14:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6356 | 8/27/05 14:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6357 | 8/27/05 14:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6358 | 8/27/05 14:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6359 | 8/27/05 15:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6360 | 8/27/05 15:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6361 | 8/27/05 15:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6362 | 8/27/05 15:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6363 | 8/27/05 16:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6364 | 8/27/05 16:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6365 | 8/27/05 16:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6366 | 8/27/05 16:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6367 | 8/27/05 17:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6368 | 8/27/05 17:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6369 | 8/27/05 17:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6370 | 8/27/05 17:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6371 | 8/27/05 18:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6372 | 8/27/05 18:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6373 | 8/27/05 18:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6374 | 8/27/05 18:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6375 | 8/27/05 19:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6376 | 8/27/05 19:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6377 | 8/27/05 19:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6378 | 8/27/05 19:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6379 | 8/27/05 20:00 | 14.57 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6380 | 8/27/05 20:15 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6381 | 8/27/05 20:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6382 | 8/27/05 20:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6383 | 8/27/05 21:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6384 | 8/27/05 21:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6385 | 8/27/05 21:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6386 | 8/27/05 21:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6387 | 8/27/05 22:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.23 | |
| 6388 | 8/27/05 22:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.23 | |
| 6389 | 8/27/05 22:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.23 | |
| 6390 | 8/27/05 22:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6391 | 8/27/05 23:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6392 | 8/27/05 23:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6393 | 8/27/05 23:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6394 | 8/27/05 23:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6395 | 8/28/05 0:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6396 | 8/28/05 0:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6397 | 8/28/05 0:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6398 | 8/28/05 0:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6399 | 8/28/05 1:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6400 | 8/28/05 1:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6401 | 8/28/05 1:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6402 | 8/28/05 1:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6403 | 8/28/05 2:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6404 | 8/28/05 2:15 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6405 | 8/28/05 2:30 | 14.1 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6406 | 8/28/05 2:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6407 | 8/28/05 3:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6408 | 8/28/05 3:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6409 | 8/28/05 3:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6410 | 8/28/05 3:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6411 | 8/28/05 4:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6412 | 8/28/05 4:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6413 | 8/28/05 4:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6414 | 8/28/05 4:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6415 | 8/28/05 5:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6416 | 8/28/05 5:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6417 | 8/28/05 5:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6418 | 8/28/05 5:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6419 | 8/28/05 6:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6420 | 8/28/05 6:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6421 | 8/28/05 6:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6422 | 8/28/05 6:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6423 | 8/28/05 7:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6424 | 8/28/05 7:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6425 | 8/28/05 7:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6426 | 8/28/05 7:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6427 | 8/28/05 8:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6428 | 8/28/05 8:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6429 | 8/28/05 8:30 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6430 | 8/28/05 8:45 | 14.57 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6431 | 8/28/05 9:00 | 14.57 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 6432 | 8/28/05 9:15 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6433 | 8/28/05 9:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6434 | 8/28/05 9:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6435 | 8/28/05 10:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6436 | 8/28/05 10:15 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6437 | 8/28/05 10:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6438 | 8/28/05 10:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6439 | 8/28/05 11:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6440 | 8/28/05 11:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6441 | 8/28/05 11:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6442 | 8/28/05 11:45 | 14.57 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6443 | 8/28/05 12:00 | 14.57 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6444 | 8/28/05 12:15 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6445 | 8/28/05 12:30 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6446 | 8/28/05 12:45 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6447 | 8/28/05 13:00 | 14.41 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 6448 | 8/28/05 13:15 | 14.41 | 16.04 | 14.57 | 14.82 | 14.38 | |
| 6449 | 8/28/05 13:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6450 | 8/28/05 13:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6451 | 8/28/05 14:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6452 | 8/28/05 14:15 | 14.41 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6453 | 8/28/05 14:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6454 | 8/28/05 14:45 | 14.41 | 15.89 | 14.41 | 14.82 | 14.38 | |
| 6455 | 8/28/05 15:00 | 14.41 | 15.89 | 14.41 | 14.82 | 14.38 | |
| 6456 | 8/28/05 15:15 | 14.41 | 15.89 | 14.41 | 14.82 | 14.38 | |
| 6457 | 8/28/05 15:30 | 14.41 | 15.89 | 14.41 | 14.82 | 14.38 | |
| 6458 | 8/28/05 15:45 | 14.41 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6459 | 8/28/05 16:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6460 | 8/28/05 16:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6461 | 8/28/05 16:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6462 | 8/28/05 16:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6463 | 8/28/05 17:00 | 14.41 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 6464 | 8/28/05 17:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6465 | 8/28/05 17:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6466 | 8/28/05 17:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6467 | 8/28/05 18:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6468 | 8/28/05 18:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6469 | 8/28/05 18:30 | 14.41 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6470 | 8/28/05 18:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6471 | 8/28/05 19:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6472 | 8/28/05 19:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6473 | 8/28/05 19:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6474 | 8/28/05 19:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6475 | 8/28/05 20:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6476 | 8/28/05 20:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6477 | 8/28/05 20:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6478 | 8/28/05 20:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6479 | 8/28/05 21:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6480 | 8/28/05 21:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6481 | 8/28/05 21:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6482 | 8/28/05 21:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6483 | 8/28/05 22:00 | 14.41 | 15.89 | 14.57 | 14.82 | 14.23 | |
| 6484 | 8/28/05 22:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6485 | 8/28/05 22:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6486 | 8/28/05 22:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6487 | 8/28/05 23:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6488 | 8/28/05 23:15 | 14.41 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6489 | 8/28/05 23:30 | 14.41 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6490 | 8/28/05 23:45 | 14.41 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 6491 | 8/29/05 0:00 | 14.41 | 16.21 | 14.57 | 14.67 | 14.23 | |
| 6492 | 8/29/05 0:15 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 6493 | 8/29/05 0:30 | 14.41 | 16.21 | 14.57 | 14.51 | 14.23 | |
| 6494 | 8/29/05 0:45 | 14.41 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6495 | 8/29/05 1:00 | 14.41 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6496 | 8/29/05 1:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6497 | 8/29/05 1:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6498 | 8/29/05 1:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6499 | 8/29/05 2:00 | 14.26 | 16.04 | 14.57 | 14.82 | 14.23 | |
| 6500 | 8/29/05 2:15 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6501 | 8/29/05 2:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6502 | 8/29/05 2:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6503 | 8/29/05 3:00 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6504 | 8/29/05 3:15 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6505 | 8/29/05 3:30 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6506 | 8/29/05 3:45 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6507 | 8/29/05 4:00 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6508 | 8/29/05 4:15 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6509 | 8/29/05 4:30 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6510 | 8/29/05 4:45 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6511 | 8/29/05 5:00 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6512 | 8/29/05 5:15 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6513 | 8/29/05 5:30 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6514 | 8/29/05 5:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6515 | 8/29/05 6:00 | 14.26 | 16.04 | 14.57 | 14.67 | 14.23 | |
| 6516 | 8/29/05 6:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6517 | 8/29/05 6:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6518 | 8/29/05 6:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6519 | 8/29/05 7:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6520 | 8/29/05 7:15 | 14.57 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6521 | 8/29/05 7:30 | 14.72 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6522 | 8/29/05 7:45 | 14.72 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6523 | 8/29/05 8:00 | 14.72 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6524 | 8/29/05 8:15 | 14.88 | 16.21 | 14.73 | 14.67 | 14.23 | |
| 6525 | 8/29/05 8:30 | 14.72 | 16.21 | 14.73 | 14.67 | 14.23 | |
| 6526 | 8/29/05 8:45 | 14.88 | 16.21 | 14.73 | 14.67 | 14.23 | |
| 6527 | 8/29/05 9:00 | 14.88 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6528 | 8/29/05 9:15 | 15.04 | 16.36 | 14.73 | 14.51 | 14.23 | |
| 6529 | 8/29/05 9:30 | 15.04 | 16.36 | 14.73 | 14.67 | 14.23 | |
| 6530 | 8/29/05 9:45 | 14.88 | 16.36 | 14.73 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6531 | 8/29/05 10:00 | 14.72 | 16.21 | 14.73 | 14.51 | 14.38 | |
| 6532 | 8/29/05 10:15 | 14.72 | 16.04 | 14.73 | 14.51 | 14.23 | |
| 6533 | 8/29/05 10:30 | 14.57 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 6534 | 8/29/05 10:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6535 | 8/29/05 11:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6536 | 8/29/05 11:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6537 | 8/29/05 11:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6538 | 8/29/05 11:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6539 | 8/29/05 12:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6540 | 8/29/05 12:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6541 | 8/29/05 12:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6542 | 8/29/05 12:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6543 | 8/29/05 13:00 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6544 | 8/29/05 13:15 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6545 | 8/29/05 13:30 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6546 | 8/29/05 13:45 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6547 | 8/29/05 14:00 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6548 | 8/29/05 14:15 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6549 | 8/29/05 14:30 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6550 | 8/29/05 14:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6551 | 8/29/05 15:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6552 | 8/29/05 15:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6553 | 8/29/05 15:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6554 | 8/29/05 15:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6555 | 8/29/05 16:00 | 14.41 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 6556 | 8/29/05 16:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6557 | 8/29/05 16:30 | 14.41 | 15.89 | 14.41 | 14.67 | 14.38 | |
| 6558 | 8/29/05 16:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6559 | 8/29/05 17:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6560 | 8/29/05 17:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6561 | 8/29/05 17:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6562 | 8/29/05 17:45 | 14.26 | 15.89 | 14.41 | 14.82 | 14.38 | |
| 6563 | 8/29/05 18:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 6564 | 8/29/05 18:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6565 | 8/29/05 18:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6566 | 8/29/05 18:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6567 | 8/29/05 19:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6568 | 8/29/05 19:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6569 | 8/29/05 19:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6570 | 8/29/05 19:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6571 | 8/29/05 20:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6572 | 8/29/05 20:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6573 | 8/29/05 20:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6574 | 8/29/05 20:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6575 | 8/29/05 21:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6576 | 8/29/05 21:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6577 | 8/29/05 21:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6578 | 8/29/05 21:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6579 | 8/29/05 22:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6580 | 8/29/05 22:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6581 | 8/29/05 22:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6582 | 8/29/05 22:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6583 | 8/29/05 23:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6584 | 8/29/05 23:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6585 | 8/29/05 23:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6586 | 8/29/05 23:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6587 | 8/30/05 0:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6588 | 8/30/05 0:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6589 | 8/30/05 0:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6590 | 8/30/05 0:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6591 | 8/30/05 1:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6592 | 8/30/05 1:15 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6593 | 8/30/05 1:30 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6594 | 8/30/05 1:45 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6595 | 8/30/05 2:00 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6596 | 8/30/05 2:15 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6597 | 8/30/05 2:30 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6598 | 8/30/05 2:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6599 | 8/30/05 3:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6600 | 8/30/05 3:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6601 | 8/30/05 3:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6602 | 8/30/05 3:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6603 | 8/30/05 4:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6604 | 8/30/05 4:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6605 | 8/30/05 4:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6606 | 8/30/05 4:45 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6607 | 8/30/05 5:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6608 | 8/30/05 5:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6609 | 8/30/05 5:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6610 | 8/30/05 5:45 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6611 | 8/30/05 6:00 | 14.1 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6612 | 8/30/05 6:15 | 14.1 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6613 | 8/30/05 6:30 | 14.1 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6614 | 8/30/05 6:45 | 14.26 | 16.04 | 14.57 | 14.51 | 14.23 | |
| 6615 | 8/30/05 7:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6616 | 8/30/05 7:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6617 | 8/30/05 7:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6618 | 8/30/05 7:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6619 | 8/30/05 8:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6620 | 8/30/05 8:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6621 | 8/30/05 8:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6622 | 8/30/05 8:45 | 14.41 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6623 | 8/30/05 9:00 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6624 | 8/30/05 9:15 | 14.41 | 16.04 | 14.88 | 14.67 | 14.23 | |
| 6625 | 8/30/05 9:30 | 14.41 | 16.04 | 14.88 | 14.67 | 14.23 | |
| 6626 | 8/30/05 9:45 | 14.57 | 16.04 | 14.88 | 14.51 | 14.23 | |
| 6627 | 8/30/05 10:00 | 14.41 | 15.89 | 14.88 | 14.51 | 14.23 | |
| 6628 | 8/30/05 10:15 | 14.41 | 15.89 | 14.88 | 14.51 | 14.38 | |
| 6629 | 8/30/05 10:30 | 14.26 | 15.89 | 14.88 | 14.51 | 14.38 | |
| 6630 | 8/30/05 10:45 | 14.26 | 15.89 | 14.88 | 14.51 | 14.23 | |
| 6631 | 8/30/05 11:00 | 14.26 | 15.89 | 14.88 | 14.51 | 14.23 | |
| 6632 | 8/30/05 11:15 | 14.26 | 15.89 | 14.88 | 14.51 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6633 | 8/30/05 11:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6634 | 8/30/05 11:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6635 | 8/30/05 12:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6636 | 8/30/05 12:15 | 14.26 | 15.73 | 14.73 | 14.51 | 14.38 | |
| 6637 | 8/30/05 12:30 | 14.26 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6638 | 8/30/05 12:45 | 14.41 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6639 | 8/30/05 13:00 | 14.41 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6640 | 8/30/05 13:15 | 14.57 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6641 | 8/30/05 13:30 | 14.72 | 15.73 | 14.57 | 14.51 | 14.38 | |
| 6642 | 8/30/05 13:45 | 14.88 | 15.73 | 14.57 | 14.51 | 14.23 | |
| 6643 | 8/30/05 14:00 | 14.72 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6644 | 8/30/05 14:15 | 14.72 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6645 | 8/30/05 14:30 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6646 | 8/30/05 14:45 | 14.57 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6647 | 8/30/05 15:00 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6648 | 8/30/05 15:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6649 | 8/30/05 15:30 | 14.26 | 15.89 | 14.73 | 14.51 | 14.38 | |
| 6650 | 8/30/05 15:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6651 | 8/30/05 16:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6652 | 8/30/05 16:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6653 | 8/30/05 16:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6654 | 8/30/05 16:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6655 | 8/30/05 17:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6656 | 8/30/05 17:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6657 | 8/30/05 17:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6658 | 8/30/05 17:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6659 | 8/30/05 18:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6660 | 8/30/05 18:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6661 | 8/30/05 18:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6662 | 8/30/05 18:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6663 | 8/30/05 19:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6664 | 8/30/05 19:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6665 | 8/30/05 19:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6666 | 8/30/05 19:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6667 | 8/30/05 20:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6668 | 8/30/05 20:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6669 | 8/30/05 20:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6670 | 8/30/05 20:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6671 | 8/30/05 21:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6672 | 8/30/05 21:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6673 | 8/30/05 21:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6674 | 8/30/05 21:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6675 | 8/30/05 22:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6676 | 8/30/05 22:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6677 | 8/30/05 22:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6678 | 8/30/05 22:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6679 | 8/30/05 23:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6680 | 8/30/05 23:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6681 | 8/30/05 23:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6682 | 8/30/05 23:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6683 | 8/31/05 0:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6684 | 8/31/05 0:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6685 | 8/31/05 0:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6686 | 8/31/05 0:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6687 | 8/31/05 1:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6688 | 8/31/05 1:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.23 | |
| 6689 | 8/31/05 1:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6690 | 8/31/05 1:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6691 | 8/31/05 2:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6692 | 8/31/05 2:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6693 | 8/31/05 2:30 | 14.41 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 6694 | 8/31/05 2:45 | 14.41 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 6695 | 8/31/05 3:00 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6696 | 8/31/05 3:15 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6697 | 8/31/05 3:30 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6698 | 8/31/05 3:45 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6699 | 8/31/05 4:00 | 14.41 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6700 | 8/31/05 4:15 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6701 | 8/31/05 4:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6702 | 8/31/05 4:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6703 | 8/31/05 5:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6704 | 8/31/05 5:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6705 | 8/31/05 5:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6706 | 8/31/05 5:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6707 | 8/31/05 6:00 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6708 | 8/31/05 6:15 | 14.1 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6709 | 8/31/05 6:30 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6710 | 8/31/05 6:45 | 14.1 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6711 | 8/31/05 7:00 | 14.1 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6712 | 8/31/05 7:15 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6713 | 8/31/05 7:30 | 14.1 | 16.21 | 14.57 | 14.67 | 14.38 | |
| 6714 | 8/31/05 7:45 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6715 | 8/31/05 8:00 | 14.1 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6716 | 8/31/05 8:15 | 14.1 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6717 | 8/31/05 8:30 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6718 | 8/31/05 8:45 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6719 | 8/31/05 9:00 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6720 | 8/31/05 9:15 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6721 | 8/31/05 9:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.23 | |
| 6722 | 8/31/05 9:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6723 | 8/31/05 10:00 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6724 | 8/31/05 10:15 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6725 | 8/31/05 10:30 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6726 | 8/31/05 10:45 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6727 | 8/31/05 11:00 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6728 | 8/31/05 11:15 | 14.57 | 16.21 | 14.73 | 14.51 | 14.38 | |
| 6729 | 8/31/05 11:30 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6730 | 8/31/05 11:45 | 14.26 | 16.21 | 14.73 | 14.67 | 14.38 | |
| 6731 | 8/31/05 12:00 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6732 | 8/31/05 12:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6733 | 8/31/05 12:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6734 | 8/31/05 12:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6735 | 8/31/05 13:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6736 | 8/31/05 13:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6737 | 8/31/05 13:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6738 | 8/31/05 13:45 | 15.04 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6739 | 8/31/05 14:00 | 15.04 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6740 | 8/31/05 14:15 | 14.88 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6741 | 8/31/05 14:30 | 14.72 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6742 | 8/31/05 14:45 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6743 | 8/31/05 15:00 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6744 | 8/31/05 15:15 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6745 | 8/31/05 15:30 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6746 | 8/31/05 15:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6747 | 8/31/05 16:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6748 | 8/31/05 16:15 | 14.41 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 6749 | 8/31/05 16:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6750 | 8/31/05 16:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6751 | 8/31/05 17:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6752 | 8/31/05 17:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6753 | 8/31/05 17:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6754 | 8/31/05 17:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6755 | 8/31/05 18:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6756 | 8/31/05 18:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6757 | 8/31/05 18:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6758 | 8/31/05 18:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6759 | 8/31/05 19:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6760 | 8/31/05 19:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.54 | |
| 6761 | 8/31/05 19:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6762 | 8/31/05 19:45 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6763 | 8/31/05 20:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6764 | 8/31/05 20:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6765 | 8/31/05 20:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6766 | 8/31/05 20:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6767 | 8/31/05 21:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6768 | 8/31/05 21:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6769 | 8/31/05 21:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6770 | 8/31/05 21:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6771 | 8/31/05 22:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6772 | 8/31/05 22:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6773 | 8/31/05 22:30 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6774 | 8/31/05 22:45 | 14.26 | 16.04 | 14.57 | 14.67 | 14.38 | |
| 6775 | 8/31/05 23:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6776 | 8/31/05 23:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6777 | 8/31/05 23:30 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6778 | 8/31/05 23:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6779 | 9/1/05 0:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6780 | 9/1/05 0:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6781 | 9/1/05 0:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6782 | 9/1/05 0:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6783 | 9/1/05 1:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6784 | 9/1/05 1:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.23 | |
| 6785 | 9/1/05 1:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6786 | 9/1/05 1:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6787 | 9/1/05 2:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6788 | 9/1/05 2:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6789 | 9/1/05 2:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6790 | 9/1/05 2:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6791 | 9/1/05 3:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6792 | 9/1/05 3:15 | 14.26 | 15.89 | 14.73 | 14.51 | 14.38 | |
| 6793 | 9/1/05 3:30 | 14.1 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 6794 | 9/1/05 3:45 | 14.26 | 15.89 | 14.73 | 14.51 | 14.23 | |
| 6795 | 9/1/05 4:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6796 | 9/1/05 4:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6797 | 9/1/05 4:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.23 | |
| 6798 | 9/1/05 4:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.23 | |
| 6799 | 9/1/05 5:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6800 | 9/1/05 5:15 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6801 | 9/1/05 5:30 | 14.41 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6802 | 9/1/05 5:45 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6803 | 9/1/05 6:00 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6804 | 9/1/05 6:15 | 14.1 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6805 | 9/1/05 6:30 | 14.26 | 15.89 | 14.57 | 14.51 | 14.38 | |
| 6806 | 9/1/05 6:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6807 | 9/1/05 7:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6808 | 9/1/05 7:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6809 | 9/1/05 7:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6810 | 9/1/05 7:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6811 | 9/1/05 8:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6812 | 9/1/05 8:15 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6813 | 9/1/05 8:30 | 14.26 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6814 | 9/1/05 8:45 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6815 | 9/1/05 9:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6816 | 9/1/05 9:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 6817 | 9/1/05 9:30 | 14.26 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 6818 | 9/1/05 9:45 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 6819 | 9/1/05 10:00 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6820 | 9/1/05 10:15 | 14.26 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6821 | 9/1/05 10:30 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6822 | 9/1/05 10:45 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6823 | 9/1/05 11:00 | 14.41 | 16.04 | 14.73 | 14.51 | 14.38 | |
| 6824 | 9/1/05 11:15 | 14.57 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 6825 | 9/1/05 11:30 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6826 | 9/1/05 11:45 | 14.57 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 6827 | 9/1/05 12:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.23 | |
| 6828 | 9/1/05 12:15 | 14.57 | 15.89 | 14.88 | 14.67 | 14.23 | |
| 6829 | 9/1/05 12:30 | 14.57 | 15.89 | 14.88 | 14.67 | 14.23 | |
| 6830 | 9/1/05 12:45 | 14.41 | 15.89 | 14.88 | 14.51 | 14.38 | |
| 6831 | 9/1/05 13:00 | 14.26 | 15.89 | 14.88 | 14.51 | 14.38 | |
| 6832 | 9/1/05 13:15 | 14.26 | 15.89 | 14.88 | 14.51 | 14.23 | |
| 6833 | 9/1/05 13:30 | 14.26 | 15.89 | 14.88 | 14.51 | 14.23 | |
| 6834 | 9/1/05 13:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.23 | |
| 6835 | 9/1/05 14:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.23 | |
| 6836 | 9/1/05 14:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6837 | 9/1/05 14:30 | 14.57 | 15.73 | 14.73 | 14.67 | 14.23 | |
| 6838 | 9/1/05 14:45 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 6839 | 9/1/05 15:00 | 14.88 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6840 | 9/1/05 15:15 | 14.88 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 6841 | 9/1/05 15:30 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6842 | 9/1/05 15:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6843 | 9/1/05 16:00 | 14.57 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6844 | 9/1/05 16:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6845 | 9/1/05 16:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.7 | |
| 6846 | 9/1/05 16:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6847 | 9/1/05 17:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6848 | 9/1/05 17:15 | 14.41 | 15.89 | 14.57 | 14.98 | 14.7 | |
| 6849 | 9/1/05 17:30 | 14.41 | 15.89 | 14.57 | 14.82 | 14.7 | |
| 6850 | 9/1/05 17:45 | 14.41 | 15.89 | 14.57 | 14.82 | 14.7 | |
| 6851 | 9/1/05 18:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.7 | |
| 6852 | 9/1/05 18:15 | 14.41 | 15.89 | 14.57 | 14.82 | 14.7 | |
| 6853 | 9/1/05 18:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.7 | |
| 6854 | 9/1/05 18:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.7 | |
| 6855 | 9/1/05 19:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.7 | |
| 6856 | 9/1/05 19:15 | 14.41 | 15.89 | 14.73 | 14.51 | 14.7 | |
| 6857 | 9/1/05 19:30 | 14.41 | 15.89 | 14.73 | 14.51 | 14.7 | |
| 6858 | 9/1/05 19:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.7 | |
| 6859 | 9/1/05 20:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.7 | |
| 6860 | 9/1/05 20:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.7 | |
| 6861 | 9/1/05 20:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.7 | |
| 6862 | 9/1/05 20:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.7 | |
| 6863 | 9/1/05 21:00 | 14.26 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6864 | 9/1/05 21:15 | 14.26 | 15.89 | 14.88 | 14.98 | 14.7 | |
| 6865 | 9/1/05 21:30 | 14.1 | 15.89 | 14.88 | 14.98 | 14.7 | |
| 6866 | 9/1/05 21:45 | 14.1 | 15.89 | 14.73 | 14.82 | 14.7 | |
| 6867 | 9/1/05 22:00 | 14.1 | 15.89 | 14.73 | 14.82 | 14.7 | |
| 6868 | 9/1/05 22:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.86 | |
| 6869 | 9/1/05 22:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.86 | |
| 6870 | 9/1/05 22:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.86 | |
| 6871 | 9/1/05 23:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.86 | |
| 6872 | 9/1/05 23:15 | 14.26 | 15.89 | 14.88 | 14.98 | 14.7 | |
| 6873 | 9/1/05 23:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.7 | |
| 6874 | 9/1/05 23:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.7 | |
| 6875 | 9/2/05 0:00 | 14.26 | 15.89 | 14.88 | 14.98 | 14.7 | |
| 6876 | 9/2/05 0:15 | 14.26 | 16.04 | 14.88 | 14.98 | 14.86 | |
| 6877 | 9/2/05 0:30 | 14.26 | 16.04 | 14.88 | 14.98 | 14.7 | |
| 6878 | 9/2/05 0:45 | 14.41 | 16.04 | 14.88 | 14.98 | 14.7 | |
| 6879 | 9/2/05 1:00 | 14.41 | 16.04 | 14.88 | 14.98 | 14.54 | |
| 6880 | 9/2/05 1:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6881 | 9/2/05 1:30 | 14.41 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6882 | 9/2/05 1:45 | 14.41 | 15.89 | 14.88 | 15.14 | 14.54 | |
| 6883 | 9/2/05 2:00 | 14.41 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6884 | 9/2/05 2:15 | 14.41 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6885 | 9/2/05 2:30 | 14.41 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6886 | 9/2/05 2:45 | 14.41 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6887 | 9/2/05 3:00 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6888 | 9/2/05 3:15 | 14.26 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6889 | 9/2/05 3:30 | 14.26 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 6890 | 9/2/05 3:45 | 14.26 | 15.89 | 15.04 | 14.67 | 14.54 | |
| 6891 | 9/2/05 4:00 | 14.41 | 15.89 | 15.04 | 14.82 | 14.54 | |
| 6892 | 9/2/05 4:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6893 | 9/2/05 4:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6894 | 9/2/05 4:45 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6895 | 9/2/05 5:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6896 | 9/2/05 5:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6897 | 9/2/05 5:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6898 | 9/2/05 5:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6899 | 9/2/05 6:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6900 | 9/2/05 6:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6901 | 9/2/05 6:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6902 | 9/2/05 6:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6903 | 9/2/05 7:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6904 | 9/2/05 7:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6905 | 9/2/05 7:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6906 | 9/2/05 7:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6907 | 9/2/05 8:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 6908 | 9/2/05 8:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6909 | 9/2/05 8:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6910 | 9/2/05 8:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6911 | 9/2/05 9:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6912 | 9/2/05 9:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6913 | 9/2/05 9:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6914 | 9/2/05 9:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6915 | 9/2/05 10:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6916 | 9/2/05 10:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6917 | 9/2/05 10:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6918 | 9/2/05 10:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6919 | 9/2/05 11:00 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6920 | 9/2/05 11:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6921 | 9/2/05 11:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6922 | 9/2/05 11:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6923 | 9/2/05 12:00 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6924 | 9/2/05 12:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6925 | 9/2/05 12:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6926 | 9/2/05 12:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6927 | 9/2/05 13:00 | 14.26 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6928 | 9/2/05 13:15 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6929 | 9/2/05 13:30 | 14.26 | 15.89 | 15.04 | 14.82 | 14.54 | |
| 6930 | 9/2/05 13:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6931 | 9/2/05 14:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6932 | 9/2/05 14:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6933 | 9/2/05 14:30 | 14.72 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6934 | 9/2/05 14:45 | 15.36 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6935 | 9/2/05 15:00 | 15.19 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6936 | 9/2/05 15:15 | 15.19 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6937 | 9/2/05 15:30 | 14.88 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6938 | 9/2/05 15:45 | 14.72 | 15.89 | 14.73 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6939 | 9/2/05 16:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6940 | 9/2/05 16:15 | 14.57 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6941 | 9/2/05 16:30 | 14.57 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6942 | 9/2/05 16:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6943 | 9/2/05 17:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6944 | 9/2/05 17:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6945 | 9/2/05 17:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6946 | 9/2/05 17:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6947 | 9/2/05 18:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6948 | 9/2/05 18:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6949 | 9/2/05 18:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6950 | 9/2/05 18:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6951 | 9/2/05 19:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6952 | 9/2/05 19:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6953 | 9/2/05 19:30 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6954 | 9/2/05 19:45 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6955 | 9/2/05 20:00 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6956 | 9/2/05 20:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6957 | 9/2/05 20:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6958 | 9/2/05 20:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6959 | 9/2/05 21:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 6960 | 9/2/05 21:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 6961 | 9/2/05 21:30 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6962 | 9/2/05 21:45 | 14.41 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 6963 | 9/2/05 22:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6964 | 9/2/05 22:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6965 | 9/2/05 22:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6966 | 9/2/05 22:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6967 | 9/2/05 23:00 | 14.26 | 16.04 | 14.73 | 14.82 | 14.54 | |
| 6968 | 9/2/05 23:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6969 | 9/2/05 23:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6970 | 9/2/05 23:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6971 | 9/3/05 0:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6972 | 9/3/05 0:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 6973 | 9/3/05 0:30 | 14.26 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6974 | 9/3/05 0:45 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6975 | 9/3/05 1:00 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6976 | 9/3/05 1:15 | 14.41 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 6977 | 9/3/05 1:30 | 14.41 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 6978 | 9/3/05 1:45 | 14.41 | 15.89 | 14.88 | 14.98 | 14.54 | |
| 6979 | 9/3/05 2:00 | 14.41 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 6980 | 9/3/05 2:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6981 | 9/3/05 2:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6982 | 9/3/05 2:45 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 6983 | 9/3/05 3:00 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6984 | 9/3/05 3:15 | 14.41 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 6985 | 9/3/05 3:30 | 14.41 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 6986 | 9/3/05 3:45 | 14.41 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 6987 | 9/3/05 4:00 | 14.57 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 6988 | 9/3/05 4:15 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 6989 | 9/3/05 4:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 6990 | 9/3/05 4:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 6991 | 9/3/05 5:00 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6992 | 9/3/05 5:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6993 | 9/3/05 5:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6994 | 9/3/05 5:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6995 | 9/3/05 6:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6996 | 9/3/05 6:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6997 | 9/3/05 6:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6998 | 9/3/05 6:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 6999 | 9/3/05 7:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7000 | 9/3/05 7:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7001 | 9/3/05 7:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7002 | 9/3/05 7:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7003 | 9/3/05 8:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7004 | 9/3/05 8:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7005 | 9/3/05 8:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7006 | 9/3/05 8:45 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7007 | 9/3/05 9:00 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7008 | 9/3/05 9:15 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7009 | 9/3/05 9:30 | 14.26 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7010 | 9/3/05 9:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7011 | 9/3/05 10:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7012 | 9/3/05 10:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7013 | 9/3/05 10:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7014 | 9/3/05 10:45 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7015 | 9/3/05 11:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7016 | 9/3/05 11:15 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7017 | 9/3/05 11:30 | 14.26 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7018 | 9/3/05 11:45 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7019 | 9/3/05 12:00 | 14.41 | 15.89 | 14.88 | 14.82 | 14.54 | |
| 7020 | 9/3/05 12:15 | 14.41 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7021 | 9/3/05 12:30 | 14.41 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7022 | 9/3/05 12:45 | 14.41 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7023 | 9/3/05 13:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7024 | 9/3/05 13:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7025 | 9/3/05 13:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.54 | |
| 7026 | 9/3/05 13:45 | 14.26 | 15.73 | 14.88 | 14.67 | 14.54 | |
| 7027 | 9/3/05 14:00 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7028 | 9/3/05 14:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7029 | 9/3/05 14:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7030 | 9/3/05 14:45 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7031 | 9/3/05 15:00 | 14.88 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7032 | 9/3/05 15:15 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7033 | 9/3/05 15:30 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7034 | 9/3/05 15:45 | 14.72 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7035 | 9/3/05 16:00 | 14.72 | 15.73 | 15.04 | 14.67 | 14.38 | |
| 7036 | 9/3/05 16:15 | 14.72 | 15.73 | 14.73 | 14.51 | 14.38 | |
| 7037 | 9/3/05 16:30 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7038 | 9/3/05 16:45 | 14.72 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 7039 | 9/3/05 17:00 | 14.57 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 7040 | 9/3/05 17:15 | 14.41 | 16.04 | 14.88 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7041 | 9/3/05 17:30 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7042 | 9/3/05 17:45 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7043 | 9/3/05 18:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7044 | 9/3/05 18:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7045 | 9/3/05 18:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7046 | 9/3/05 18:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7047 | 9/3/05 19:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7048 | 9/3/05 19:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7049 | 9/3/05 19:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7050 | 9/3/05 19:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7051 | 9/3/05 20:00 | 14.41 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7052 | 9/3/05 20:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7053 | 9/3/05 20:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7054 | 9/3/05 20:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7055 | 9/3/05 21:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7056 | 9/3/05 21:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7057 | 9/3/05 21:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7058 | 9/3/05 21:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7059 | 9/3/05 22:00 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7060 | 9/3/05 22:15 | 14.26 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7061 | 9/3/05 22:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 7062 | 9/3/05 22:45 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 7063 | 9/3/05 23:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7064 | 9/3/05 23:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7065 | 9/3/05 23:30 | 14.26 | 15.89 | 14.57 | 14.82 | 14.54 | |
| 7066 | 9/3/05 23:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7067 | 9/4/05 0:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7068 | 9/4/05 0:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7069 | 9/4/05 0:30 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7070 | 9/4/05 0:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7071 | 9/4/05 1:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7072 | 9/4/05 1:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7073 | 9/4/05 1:30 | 14.41 | 15.89 | 14.88 | 14.67 | 14.54 | |
| 7074 | 9/4/05 1:45 | 14.41 | 16.04 | 14.88 | 14.67 | 14.54 | |
| 7075 | 9/4/05 2:00 | 14.41 | 16.04 | 14.73 | 14.67 | 14.38 | |
| 7076 | 9/4/05 2:15 | 14.57 | 16.04 | 14.88 | 14.67 | 14.38 | |
| 7077 | 9/4/05 2:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7078 | 9/4/05 2:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7079 | 9/4/05 3:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7080 | 9/4/05 3:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7081 | 9/4/05 3:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7082 | 9/4/05 3:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7083 | 9/4/05 4:00 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7084 | 9/4/05 4:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7085 | 9/4/05 4:30 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7086 | 9/4/05 4:45 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7087 | 9/4/05 5:00 | 14.57 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7088 | 9/4/05 5:15 | 14.41 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7089 | 9/4/05 5:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7090 | 9/4/05 5:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7091 | 9/4/05 6:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7092 | 9/4/05 6:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7093 | 9/4/05 6:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7094 | 9/4/05 6:45 | 14.26 | 15.73 | 14.41 | 14.67 | 14.38 | |
| 7095 | 9/4/05 7:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7096 | 9/4/05 7:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7097 | 9/4/05 7:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 7098 | 9/4/05 7:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 7099 | 9/4/05 8:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 7100 | 9/4/05 8:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7101 | 9/4/05 8:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7102 | 9/4/05 8:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7103 | 9/4/05 9:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7104 | 9/4/05 9:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7105 | 9/4/05 9:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7106 | 9/4/05 9:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7107 | 9/4/05 10:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7108 | 9/4/05 10:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7109 | 9/4/05 10:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7110 | 9/4/05 10:45 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7111 | 9/4/05 11:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7112 | 9/4/05 11:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7113 | 9/4/05 11:30 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7114 | 9/4/05 11:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7115 | 9/4/05 12:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7116 | 9/4/05 12:15 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7117 | 9/4/05 12:30 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7118 | 9/4/05 12:45 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7119 | 9/4/05 13:00 | 14.57 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7120 | 9/4/05 13:15 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7121 | 9/4/05 13:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7122 | 9/4/05 13:45 | 14.41 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7123 | 9/4/05 14:00 | 14.26 | 15.89 | 14.88 | 14.67 | 14.38 | |
| 7124 | 9/4/05 14:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7125 | 9/4/05 14:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7126 | 9/4/05 14:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7127 | 9/4/05 15:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7128 | 9/4/05 15:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7129 | 9/4/05 15:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.38 | |
| 7130 | 9/4/05 15:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7131 | 9/4/05 16:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7132 | 9/4/05 16:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7133 | 9/4/05 16:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7134 | 9/4/05 16:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7135 | 9/4/05 17:00 | 14.57 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7136 | 9/4/05 17:15 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7137 | 9/4/05 17:30 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7138 | 9/4/05 17:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7139 | 9/4/05 18:00 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7140 | 9/4/05 18:15 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7141 | 9/4/05 18:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7142 | 9/4/05 18:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7143 | 9/4/05 19:00 | 14.41 | 15.89 | 14.57 | 14.82 | 14.38 | |
| 7144 | 9/4/05 19:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7145 | 9/4/05 19:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7146 | 9/4/05 19:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7147 | 9/4/05 20:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7148 | 9/4/05 20:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7149 | 9/4/05 20:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7150 | 9/4/05 20:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7151 | 9/4/05 21:00 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7152 | 9/4/05 21:15 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7153 | 9/4/05 21:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7154 | 9/4/05 21:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7155 | 9/4/05 22:00 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7156 | 9/4/05 22:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7157 | 9/4/05 22:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7158 | 9/4/05 22:45 | 14.41 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7159 | 9/4/05 23:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7160 | 9/4/05 23:15 | 14.26 | 15.89 | 14.57 | 14.67 | 14.54 | |
| 7161 | 9/4/05 23:30 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7162 | 9/4/05 23:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7163 | 9/5/05 0:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7164 | 9/5/05 0:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7165 | 9/5/05 0:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7166 | 9/5/05 0:45 | 14.26 | 15.89 | 14.57 | 14.67 | 14.38 | |
| 7167 | 9/5/05 1:00 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7168 | 9/5/05 1:15 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7169 | 9/5/05 1:30 | 14.26 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7170 | 9/5/05 1:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7171 | 9/5/05 2:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7172 | 9/5/05 2:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7173 | 9/5/05 2:30 | 14.57 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7174 | 9/5/05 2:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7175 | 9/5/05 3:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7176 | 9/5/05 3:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7177 | 9/5/05 3:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7178 | 9/5/05 3:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7179 | 9/5/05 4:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7180 | 9/5/05 4:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7181 | 9/5/05 4:30 | 14.57 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7182 | 9/5/05 4:45 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7183 | 9/5/05 5:00 | 14.57 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7184 | 9/5/05 5:15 | 14.57 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7185 | 9/5/05 5:30 | 14.57 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7186 | 9/5/05 5:45 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7187 | 9/5/05 6:00 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7188 | 9/5/05 6:15 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7189 | 9/5/05 6:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7190 | 9/5/05 6:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7191 | 9/5/05 7:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7192 | 9/5/05 7:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7193 | 9/5/05 7:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7194 | 9/5/05 7:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7195 | 9/5/05 8:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7196 | 9/5/05 8:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7197 | 9/5/05 8:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7198 | 9/5/05 8:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7199 | 9/5/05 9:00 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7200 | 9/5/05 9:15 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7201 | 9/5/05 9:30 | 14.1 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7202 | 9/5/05 9:45 | 14.1 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7203 | 9/5/05 10:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7204 | 9/5/05 10:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7205 | 9/5/05 10:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7206 | 9/5/05 10:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7207 | 9/5/05 11:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7208 | 9/5/05 11:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7209 | 9/5/05 11:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7210 | 9/5/05 11:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7211 | 9/5/05 12:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7212 | 9/5/05 12:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7213 | 9/5/05 12:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7214 | 9/5/05 12:45 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7215 | 9/5/05 13:00 | 14.57 | 15.89 | 14.73 | 14.67 | 14.38 | |
| 7216 | 9/5/05 13:15 | 14.57 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7217 | 9/5/05 13:30 | 14.57 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7218 | 9/5/05 13:45 | 14.72 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7219 | 9/5/05 14:00 | 15.51 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7220 | 9/5/05 14:15 | 14.72 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7221 | 9/5/05 14:30 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7222 | 9/5/05 14:45 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7223 | 9/5/05 15:00 | 14.41 | 16.04 | 14.73 | 14.67 | 14.54 | |
| 7224 | 9/5/05 15:15 | 14.41 | 15.89 | 14.73 | 14.67 | 14.54 | |
| 7225 | 9/5/05 15:30 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7226 | 9/5/05 15:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7227 | 9/5/05 16:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7228 | 9/5/05 16:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7229 | 9/5/05 16:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7230 | 9/5/05 16:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7231 | 9/5/05 17:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7232 | 9/5/05 17:15 | 14.41 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7233 | 9/5/05 17:30 | 14.72 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7234 | 9/5/05 17:45 | 14.72 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7235 | 9/5/05 18:00 | 14.57 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7236 | 9/5/05 18:15 | 14.57 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7237 | 9/5/05 18:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7238 | 9/5/05 18:45 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7239 | 9/5/05 19:00 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7240 | 9/5/05 19:15 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7241 | 9/5/05 19:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7242 | 9/5/05 19:45 | 14.41 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7243 | 9/5/05 20:00 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7244 | 9/5/05 20:15 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7245 | 9/5/05 20:30 | 14.41 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7246 | 9/5/05 20:45 | 14.41 | 15.57 | 14.57 | 14.98 | 14.54 | |
| 7247 | 9/5/05 21:00 | 14.26 | 15.57 | 14.57 | 14.82 | 14.54 | |
| 7248 | 9/5/05 21:15 | 14.26 | 15.57 | 14.57 | 14.82 | 14.54 | |
| 7249 | 9/5/05 21:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7250 | 9/5/05 21:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7251 | 9/5/05 22:00 | 14.26 | 15.57 | 14.57 | 14.82 | 14.54 | |
| 7252 | 9/5/05 22:15 | 14.26 | 16.04 | 14.73 | 14.82 | 14.38 | |
| 7253 | 9/5/05 22:30 | 14.26 | 16.21 | 14.73 | 14.82 | 14.38 | |
| 7254 | 9/5/05 22:45 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7255 | 9/5/05 23:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7256 | 9/5/05 23:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7257 | 9/5/05 23:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7258 | 9/5/05 23:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7259 | 9/6/05 0:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7260 | 9/6/05 0:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7261 | 9/6/05 0:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7262 | 9/6/05 0:45 | 14.57 | 15.73 | 14.73 | 14.98 | 14.38 | |
| 7263 | 9/6/05 1:00 | 14.41 | 15.73 | 14.88 | 14.82 | 14.38 | |
| 7264 | 9/6/05 1:15 | 14.26 | 15.73 | 14.88 | 14.98 | 14.38 | |
| 7265 | 9/6/05 1:30 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7266 | 9/6/05 1:45 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7267 | 9/6/05 2:00 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7268 | 9/6/05 2:15 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7269 | 9/6/05 2:30 | 14.41 | 15.73 | 14.88 | 14.98 | 14.38 | |
| 7270 | 9/6/05 2:45 | 14.41 | 15.89 | 15.04 | 14.98 | 14.38 | |
| 7271 | 9/6/05 3:00 | 14.26 | 15.89 | 14.88 | 14.98 | 14.38 | |
| 7272 | 9/6/05 3:15 | 14.26 | 15.73 | 14.88 | 14.98 | 14.38 | |
| 7273 | 9/6/05 3:30 | 14.26 | 15.73 | 14.88 | 15.14 | 14.54 | |
| 7274 | 9/6/05 3:45 | 14.26 | 15.57 | 14.88 | 15.14 | 14.54 | |
| 7275 | 9/6/05 4:00 | 14.26 | 15.57 | 15.04 | 14.98 | 14.54 | |
| 7276 | 9/6/05 4:15 | 14.26 | 15.57 | 15.04 | 14.98 | 14.38 | |
| 7277 | 9/6/05 4:30 | 14.26 | 15.57 | 15.04 | 14.82 | 14.38 | |
| 7278 | 9/6/05 4:45 | 14.26 | 15.57 | 15.04 | 14.98 | 14.38 | |
| 7279 | 9/6/05 5:00 | 14.26 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7280 | 9/6/05 5:15 | 14.26 | 15.57 | 15.04 | 14.82 | 14.38 | |
| 7281 | 9/6/05 5:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7282 | 9/6/05 5:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7283 | 9/6/05 6:00 | 14.57 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7284 | 9/6/05 6:15 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7285 | 9/6/05 6:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7286 | 9/6/05 6:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7287 | 9/6/05 7:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7288 | 9/6/05 7:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7289 | 9/6/05 7:30 | 14.41 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7290 | 9/6/05 7:45 | 14.41 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7291 | 9/6/05 8:00 | 14.41 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7292 | 9/6/05 8:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7293 | 9/6/05 8:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7294 | 9/6/05 8:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7295 | 9/6/05 9:00 | 14.1 | 15.57 | 14.73 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7296 | 9/6/05 9:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7297 | 9/6/05 9:30 | 14.1 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7298 | 9/6/05 9:45 | 14.1 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7299 | 9/6/05 10:00 | 14.1 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7300 | 9/6/05 10:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7301 | 9/6/05 10:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7302 | 9/6/05 10:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7303 | 9/6/05 11:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7304 | 9/6/05 11:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7305 | 9/6/05 11:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7306 | 9/6/05 11:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7307 | 9/6/05 12:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7308 | 9/6/05 12:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7309 | 9/6/05 12:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7310 | 9/6/05 12:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7311 | 9/6/05 13:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7312 | 9/6/05 13:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7313 | 9/6/05 13:30 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7314 | 9/6/05 13:45 | 14.41 | 15.73 | 14.73 | 14.98 | 14.54 | |
| 7315 | 9/6/05 14:00 | 14.41 | 15.57 | 14.73 | 14.82 | 14.7 | |
| 7316 | 9/6/05 14:15 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7317 | 9/6/05 14:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7318 | 9/6/05 14:45 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7319 | 9/6/05 15:00 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7320 | 9/6/05 15:15 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7321 | 9/6/05 15:30 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7322 | 9/6/05 15:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7323 | 9/6/05 16:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7324 | 9/6/05 16:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7325 | 9/6/05 16:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7326 | 9/6/05 16:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7327 | 9/6/05 17:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7328 | 9/6/05 17:15 | 14.88 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7329 | 9/6/05 17:30 | 14.88 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7330 | 9/6/05 17:45 | 14.57 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7331 | 9/6/05 18:00 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7332 | 9/6/05 18:15 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7333 | 9/6/05 18:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7334 | 9/6/05 18:45 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7335 | 9/6/05 19:00 | 14.41 | 15.57 | 14.57 | 14.82 | 14.54 | |
| 7336 | 9/6/05 19:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7337 | 9/6/05 19:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7338 | 9/6/05 19:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7339 | 9/6/05 20:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7340 | 9/6/05 20:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7341 | 9/6/05 20:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7342 | 9/6/05 20:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7343 | 9/6/05 21:00 | 14.26 | 15.57 | 14.73 | 14.98 | 14.54 | |
| 7344 | 9/6/05 21:15 | 14.26 | 15.57 | 14.73 | 14.98 | 14.54 | |
| 7345 | 9/6/05 21:30 | 14.26 | 15.57 | 14.73 | 14.98 | 14.54 | |
| 7346 | 9/6/05 21:45 | 14.26 | 15.57 | 14.73 | 14.98 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7347 | 9/6/05 22:00 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7348 | 9/6/05 22:15 | 14.26 | 15.89 | 14.73 | 14.82 | 14.54 | |
| 7349 | 9/6/05 22:30 | 14.26 | 15.73 | 14.73 | 14.98 | 14.54 | |
| 7350 | 9/6/05 22:45 | 14.26 | 15.89 | 14.73 | 14.98 | 14.54 | |
| 7351 | 9/6/05 23:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7352 | 9/6/05 23:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7353 | 9/6/05 23:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7354 | 9/6/05 23:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7355 | 9/7/05 0:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7356 | 9/7/05 0:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7357 | 9/7/05 0:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7358 | 9/7/05 0:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7359 | 9/7/05 1:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7360 | 9/7/05 1:15 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7361 | 9/7/05 1:30 | 14.57 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7362 | 9/7/05 1:45 | 14.57 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7363 | 9/7/05 2:00 | 14.57 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7364 | 9/7/05 2:15 | 14.72 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7365 | 9/7/05 2:30 | 14.57 | 15.89 | 15.04 | 14.82 | 14.54 | |
| 7366 | 9/7/05 2:45 | 14.41 | 15.73 | 15.2 | 14.98 | 14.38 | |
| 7367 | 9/7/05 3:00 | 14.41 | 15.73 | 15.2 | 14.98 | 14.38 | |
| 7368 | 9/7/05 3:15 | 14.41 | 15.73 | 15.04 | 14.98 | 14.38 | |
| 7369 | 9/7/05 3:30 | 14.41 | 15.89 | 15.04 | 14.98 | 14.38 | |
| 7370 | 9/7/05 3:45 | 14.26 | 15.73 | 14.88 | 14.98 | 14.38 | |
| 7371 | 9/7/05 4:00 | 14.26 | 15.57 | 15.04 | 14.98 | 14.38 | |
| 7372 | 9/7/05 4:15 | 14.26 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7373 | 9/7/05 4:30 | 14.26 | 15.57 | 15.04 | 14.98 | 14.54 | |
| 7374 | 9/7/05 4:45 | 14.26 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7375 | 9/7/05 5:00 | 14.26 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7376 | 9/7/05 5:15 | 14.26 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7377 | 9/7/05 5:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7378 | 9/7/05 5:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7379 | 9/7/05 6:00 | 14.41 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7380 | 9/7/05 6:15 | 14.57 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7381 | 9/7/05 6:30 | 14.72 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7382 | 9/7/05 6:45 | 14.72 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7383 | 9/7/05 7:00 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7384 | 9/7/05 7:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7385 | 9/7/05 7:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7386 | 9/7/05 7:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7387 | 9/7/05 8:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7388 | 9/7/05 8:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7389 | 9/7/05 8:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7390 | 9/7/05 8:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7391 | 9/7/05 9:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7392 | 9/7/05 9:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7393 | 9/7/05 9:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7394 | 9/7/05 9:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7395 | 9/7/05 10:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7396 | 9/7/05 10:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7397 | 9/7/05 10:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7398 | 9/7/05 10:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7399 | 9/7/05 11:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7400 | 9/7/05 11:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7401 | 9/7/05 11:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7402 | 9/7/05 11:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7403 | 9/7/05 12:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7404 | 9/7/05 12:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7405 | 9/7/05 12:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7406 | 9/7/05 12:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7407 | 9/7/05 13:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7408 | 9/7/05 13:15 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7409 | 9/7/05 13:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7410 | 9/7/05 13:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7411 | 9/7/05 14:00 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7412 | 9/7/05 14:15 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7413 | 9/7/05 14:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7414 | 9/7/05 14:45 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7415 | 9/7/05 15:00 | 14.57 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7416 | 9/7/05 15:15 | 14.57 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7417 | 9/7/05 15:30 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7418 | 9/7/05 15:45 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7419 | 9/7/05 16:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7420 | 9/7/05 16:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7421 | 9/7/05 16:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7422 | 9/7/05 16:45 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7423 | 9/7/05 17:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7424 | 9/7/05 17:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7425 | 9/7/05 17:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7426 | 9/7/05 17:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7427 | 9/7/05 18:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7428 | 9/7/05 18:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7429 | 9/7/05 18:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7430 | 9/7/05 18:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7431 | 9/7/05 19:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7432 | 9/7/05 19:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7433 | 9/7/05 19:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7434 | 9/7/05 19:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7435 | 9/7/05 20:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7436 | 9/7/05 20:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7437 | 9/7/05 20:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7438 | 9/7/05 20:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7439 | 9/7/05 21:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7440 | 9/7/05 21:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7441 | 9/7/05 21:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7442 | 9/7/05 21:45 | 14.1 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7443 | 9/7/05 22:00 | 14.1 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7444 | 9/7/05 22:15 | 14.1 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7445 | 9/7/05 22:30 | 14.1 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7446 | 9/7/05 22:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7447 | 9/7/05 23:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7448 | 9/7/05 23:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7449 | 9/7/05 23:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7450 | 9/7/05 23:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7451 | 9/8/05 0:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7452 | 9/8/05 0:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7453 | 9/8/05 0:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7454 | 9/8/05 0:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7455 | 9/8/05 1:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7456 | 9/8/05 1:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7457 | 9/8/05 1:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7458 | 9/8/05 1:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7459 | 9/8/05 2:00 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7460 | 9/8/05 2:15 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7461 | 9/8/05 2:30 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7462 | 9/8/05 2:45 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7463 | 9/8/05 3:00 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7464 | 9/8/05 3:15 | 14.41 | 15.73 | 15.2 | 14.82 | 14.54 | |
| 7465 | 9/8/05 3:30 | 14.57 | 15.73 | 15.2 | 14.82 | 14.54 | |
| 7466 | 9/8/05 3:45 | 15.04 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7467 | 9/8/05 4:00 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7468 | 9/8/05 4:15 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7469 | 9/8/05 4:30 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7470 | 9/8/05 4:45 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7471 | 9/8/05 5:00 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7472 | 9/8/05 5:15 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7473 | 9/8/05 5:30 | 14.26 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7474 | 9/8/05 5:45 | 14.26 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7475 | 9/8/05 6:00 | 14.26 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7476 | 9/8/05 6:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7477 | 9/8/05 6:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7478 | 9/8/05 6:45 | 14.57 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7479 | 9/8/05 7:00 | 14.72 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7480 | 9/8/05 7:15 | 14.72 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7481 | 9/8/05 7:30 | 14.41 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7482 | 9/8/05 7:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7483 | 9/8/05 8:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7484 | 9/8/05 8:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7485 | 9/8/05 8:30 | 14.41 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7486 | 9/8/05 8:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7487 | 9/8/05 9:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7488 | 9/8/05 9:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7489 | 9/8/05 9:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7490 | 9/8/05 9:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7491 | 9/8/05 10:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7492 | 9/8/05 10:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7493 | 9/8/05 10:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7494 | 9/8/05 10:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7495 | 9/8/05 11:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.7 | |
| 7496 | 9/8/05 11:15 | 14.41 | 15.57 | 14.73 | 14.67 | 14.7 | |
| 7497 | 9/8/05 11:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.7 | |
| 7498 | 9/8/05 11:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.7 | |
| 7499 | 9/8/05 12:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.7 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7500 | 9/8/05 12:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.7 | |
| 7501 | 9/8/05 12:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.7 | |
| 7502 | 9/8/05 12:45 | 14.26 | 15.73 | 14.88 | 14.67 | 14.7 | |
| 7503 | 9/8/05 13:00 | 14.26 | 15.73 | 14.88 | 14.67 | 14.7 | |
| 7504 | 9/8/05 13:15 | 14.26 | 15.73 | 15.04 | 14.67 | 14.7 | |
| 7505 | 9/8/05 13:30 | 14.26 | 15.73 | 14.88 | 14.67 | 14.7 | |
| 7506 | 9/8/05 13:45 | 14.26 | 15.73 | 15.04 | 14.67 | 14.7 | |
| 7507 | 9/8/05 14:00 | 14.26 | 15.73 | 15.04 | 14.67 | 14.54 | |
| 7508 | 9/8/05 14:15 | 14.26 | 15.73 | 15.04 | 14.67 | 14.7 | |
| 7509 | 9/8/05 14:30 | 14.41 | 15.73 | 15.04 | 14.67 | 14.54 | |
| 7510 | 9/8/05 14:45 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7511 | 9/8/05 15:00 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7512 | 9/8/05 15:15 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7513 | 9/8/05 15:30 | 14.41 | 15.73 | 15.04 | 14.82 | 14.7 | |
| 7514 | 9/8/05 15:45 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7515 | 9/8/05 16:00 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7516 | 9/8/05 16:15 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7517 | 9/8/05 16:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7518 | 9/8/05 16:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7519 | 9/8/05 17:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7520 | 9/8/05 17:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7521 | 9/8/05 17:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7522 | 9/8/05 17:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7523 | 9/8/05 18:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7524 | 9/8/05 18:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7525 | 9/8/05 18:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7526 | 9/8/05 18:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7527 | 9/8/05 19:00 | 14.57 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7528 | 9/8/05 19:15 | 14.57 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7529 | 9/8/05 19:30 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7530 | 9/8/05 19:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7531 | 9/8/05 20:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7532 | 9/8/05 20:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7533 | 9/8/05 20:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7534 | 9/8/05 20:45 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7535 | 9/8/05 21:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7536 | 9/8/05 21:15 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7537 | 9/8/05 21:30 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7538 | 9/8/05 21:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7539 | 9/8/05 22:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7540 | 9/8/05 22:15 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7541 | 9/8/05 22:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7542 | 9/8/05 22:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7543 | 9/8/05 23:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7544 | 9/8/05 23:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7545 | 9/8/05 23:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7546 | 9/8/05 23:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7547 | 9/9/05 0:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7548 | 9/9/05 0:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7549 | 9/9/05 0:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7550 | 9/9/05 0:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7551 | 9/9/05 1:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7552 | 9/9/05 1:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7553 | 9/9/05 1:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7554 | 9/9/05 1:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7555 | 9/9/05 2:00 | 14.26 | 15.73 | 14.73 | 14.98 | 14.54 | |
| 7556 | 9/9/05 2:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7557 | 9/9/05 2:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.7 | |
| 7558 | 9/9/05 2:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7559 | 9/9/05 3:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7560 | 9/9/05 3:15 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7561 | 9/9/05 3:30 | 14.41 | 15.73 | 15.04 | 14.98 | 14.54 | |
| 7562 | 9/9/05 3:45 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7563 | 9/9/05 4:00 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7564 | 9/9/05 4:15 | 14.41 | 15.73 | 15.2 | 14.82 | 14.54 | |
| 7565 | 9/9/05 4:30 | 14.41 | 15.73 | 15.2 | 14.82 | 14.54 | |
| 7566 | 9/9/05 4:45 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7567 | 9/9/05 5:00 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7568 | 9/9/05 5:15 | 14.26 | 15.57 | 15.2 | 14.82 | 14.54 | |
| 7569 | 9/9/05 5:30 | 14.26 | 15.57 | 15.2 | 14.82 | 14.54 | |
| 7570 | 9/9/05 5:45 | 14.26 | 15.57 | 15.2 | 14.82 | 14.54 | |
| 7571 | 9/9/05 6:00 | 14.26 | 15.73 | 15.2 | 14.82 | 14.54 | |
| 7572 | 9/9/05 6:15 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7573 | 9/9/05 6:30 | 14.26 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7574 | 9/9/05 6:45 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7575 | 9/9/05 7:00 | 14.57 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7576 | 9/9/05 7:15 | 14.72 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7577 | 9/9/05 7:30 | 14.72 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7578 | 9/9/05 7:45 | 14.72 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7579 | 9/9/05 8:00 | 14.72 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7580 | 9/9/05 8:15 | 14.57 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7581 | 9/9/05 8:30 | 14.41 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7582 | 9/9/05 8:45 | 14.41 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7583 | 9/9/05 9:00 | 14.26 | 15.57 | 14.88 | 14.67 | 14.54 | |
| 7584 | 9/9/05 9:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7585 | 9/9/05 9:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7586 | 9/9/05 9:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7587 | 9/9/05 10:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7588 | 9/9/05 10:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7589 | 9/9/05 10:30 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7590 | 9/9/05 10:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7591 | 9/9/05 11:00 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7592 | 9/9/05 11:15 | 14.41 | 15.57 | 14.73 | 14.82 | 14.7 | |
| 7593 | 9/9/05 11:30 | 14.41 | 15.57 | 14.73 | 14.98 | 14.7 | |
| 7594 | 9/9/05 11:45 | 14.41 | 15.57 | 14.73 | 14.98 | 14.86 | |
| 7595 | 9/9/05 12:00 | 14.41 | 15.57 | 14.88 | 14.98 | 14.7 | |
| 7596 | 9/9/05 12:15 | 14.41 | 15.57 | 14.88 | 14.98 | 14.7 | |
| 7597 | 9/9/05 12:30 | 14.41 | 15.73 | 14.88 | 14.98 | 14.7 | |
| 7598 | 9/9/05 12:45 | 14.41 | 15.73 | 14.88 | 14.98 | 14.54 | |
| 7599 | 9/9/05 13:00 | 14.41 | 15.73 | 14.73 | 14.98 | 14.7 | |
| 7600 | 9/9/05 13:15 | 14.41 | 15.73 | 14.73 | 14.98 | 14.54 | |
| 7601 | 9/9/05 13:30 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7602 | 9/9/05 13:45 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7603 | 9/9/05 14:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7604 | 9/9/05 14:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7605 | 9/9/05 14:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7606 | 9/9/05 14:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7607 | 9/9/05 15:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7608 | 9/9/05 15:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7609 | 9/9/05 15:30 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7610 | 9/9/05 15:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7611 | 9/9/05 16:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7612 | 9/9/05 16:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7613 | 9/9/05 16:30 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7614 | 9/9/05 16:45 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7615 | 9/9/05 17:00 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7616 | 9/9/05 17:15 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7617 | 9/9/05 17:30 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7618 | 9/9/05 17:45 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7619 | 9/9/05 18:00 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7620 | 9/9/05 18:15 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7621 | 9/9/05 18:30 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7622 | 9/9/05 18:45 | 14.41 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7623 | 9/9/05 19:00 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7624 | 9/9/05 19:15 | 14.41 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7625 | 9/9/05 19:30 | 14.41 | 15.57 | 15.04 | 14.67 | 14.54 | |
| 7626 | 9/9/05 19:45 | 14.41 | 15.57 | 15.04 | 14.67 | 14.38 | |
| 7627 | 9/9/05 20:00 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7628 | 9/9/05 20:15 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7629 | 9/9/05 20:30 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7630 | 9/9/05 20:45 | 14.26 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7631 | 9/9/05 21:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7632 | 9/9/05 21:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7633 | 9/9/05 21:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7634 | 9/9/05 21:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7635 | 9/9/05 22:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7636 | 9/9/05 22:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7637 | 9/9/05 22:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7638 | 9/9/05 22:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7639 | 9/9/05 23:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7640 | 9/9/05 23:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7641 | 9/9/05 23:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7642 | 9/9/05 23:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7643 | 9/10/05 0:00 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7644 | 9/10/05 0:15 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7645 | 9/10/05 0:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7646 | 9/10/05 0:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7647 | 9/10/05 1:00 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7648 | 9/10/05 1:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7649 | 9/10/05 1:30 | 14.26 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7650 | 9/10/05 1:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7651 | 9/10/05 2:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7652 | 9/10/05 2:15 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7653 | 9/10/05 2:30 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7654 | 9/10/05 2:45 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7655 | 9/10/05 3:00 | 14.26 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7656 | 9/10/05 3:15 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7657 | 9/10/05 3:30 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7658 | 9/10/05 3:45 | 14.26 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7659 | 9/10/05 4:00 | 14.26 | 15.73 | 14.88 | 14.82 | 14.54 | |
| 7660 | 9/10/05 4:15 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7661 | 9/10/05 4:30 | 14.41 | 15.73 | 15.04 | 14.82 | 14.54 | |
| 7662 | 9/10/05 4:45 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7663 | 9/10/05 5:00 | 14.41 | 15.57 | 14.88 | 14.82 | 14.54 | |
| 7664 | 9/10/05 5:15 | 14.41 | 15.57 | 15.04 | 14.82 | 14.54 | |
| 7665 | 9/10/05 5:30 | 14.41 | 15.73 | 15.04 | 14.82 | 14.38 | |
| 7666 | 9/10/05 5:45 | 14.57 | 15.57 | 15.04 | 14.82 | 14.38 | |
| 7667 | 9/10/05 6:00 | 14.57 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7668 | 9/10/05 6:15 | 14.57 | 15.57 | 14.88 | 14.82 | 14.38 | |
| 7669 | 9/10/05 6:30 | 14.57 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7670 | 9/10/05 6:45 | 14.57 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7671 | 9/10/05 7:00 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7672 | 9/10/05 7:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7673 | 9/10/05 7:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7674 | 9/10/05 7:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7675 | 9/10/05 8:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7676 | 9/10/05 8:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7677 | 9/10/05 8:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7678 | 9/10/05 8:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7679 | 9/10/05 9:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7680 | 9/10/05 9:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.54 | |
| 7681 | 9/10/05 9:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.54 | |
| 7682 | 9/10/05 9:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.54 | |
| 7683 | 9/10/05 10:00 | 14.41 | 15.57 | 14.57 | 14.82 | 14.54 | |
| 7684 | 9/10/05 10:15 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7685 | 9/10/05 10:30 | 14.41 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7686 | 9/10/05 10:45 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7687 | 9/10/05 11:00 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7688 | 9/10/05 11:15 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7689 | 9/10/05 11:30 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7690 | 9/10/05 11:45 | 14.41 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7691 | 9/10/05 12:00 | 14.41 | 15.73 | 14.73 | 14.82 | 14.54 | |
| 7692 | 9/10/05 12:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.54 | |
| 7693 | 9/10/05 12:30 | 14.26 | 15.73 | 14.57 | 14.82 | 14.54 | |
| 7694 | 9/10/05 12:45 | 14.26 | 15.73 | 14.57 | 14.82 | 14.54 | |
| 7695 | 9/10/05 13:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.54 | |
| 7696 | 9/10/05 13:15 | 14.26 | 15.73 | 14.57 | 14.82 | 14.54 | |
| 7697 | 9/10/05 13:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 7698 | 9/10/05 13:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.54 | |
| 7699 | 9/10/05 14:00 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7700 | 9/10/05 14:15 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7701 | 9/10/05 14:30 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7702 | 9/10/05 14:45 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7703 | 9/10/05 15:00 | 14.41 | 15.73 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7704 | 9/10/05 15:15 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7705 | 9/10/05 15:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7706 | 9/10/05 15:45 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7707 | 9/10/05 16:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7708 | 9/10/05 16:15 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7709 | 9/10/05 16:30 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7710 | 9/10/05 16:45 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7711 | 9/10/05 17:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7712 | 9/10/05 17:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7713 | 9/10/05 17:30 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7714 | 9/10/05 17:45 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7715 | 9/10/05 18:00 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7716 | 9/10/05 18:15 | 14.26 | 15.57 | 14.73 | 14.82 | 14.38 | |
| 7717 | 9/10/05 18:30 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7718 | 9/10/05 18:45 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7719 | 9/10/05 19:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7720 | 9/10/05 19:15 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7721 | 9/10/05 19:30 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7722 | 9/10/05 19:45 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7723 | 9/10/05 20:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7724 | 9/10/05 20:15 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7725 | 9/10/05 20:30 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7726 | 9/10/05 20:45 | 14.26 | 15.73 | 14.57 | 14.67 | 14.38 | |
| 7727 | 9/10/05 21:00 | 14.26 | 15.73 | 14.57 | 14.82 | 14.38 | |
| 7728 | 9/10/05 21:15 | 14.26 | 15.73 | 14.57 | 14.82 | 14.23 | |
| 7729 | 9/10/05 21:30 | 14.26 | 15.57 | 14.57 | 14.82 | 14.23 | |
| 7730 | 9/10/05 21:45 | 14.26 | 15.57 | 14.57 | 14.82 | 14.23 | |
| 7731 | 9/10/05 22:00 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7732 | 9/10/05 22:15 | 14.41 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7733 | 9/10/05 22:30 | 14.41 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7734 | 9/10/05 22:45 | 14.41 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7735 | 9/10/05 23:00 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7736 | 9/10/05 23:15 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7737 | 9/10/05 23:30 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7738 | 9/10/05 23:45 | 14.26 | 15.57 | 14.57 | 14.82 | 14.38 | |
| 7739 | 9/11/05 0:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7740 | 9/11/05 0:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7741 | 9/11/05 0:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7742 | 9/11/05 0:45 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7743 | 9/11/05 1:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7744 | 9/11/05 1:15 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7745 | 9/11/05 1:30 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7746 | 9/11/05 1:45 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7747 | 9/11/05 2:00 | 14.41 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7748 | 9/11/05 2:15 | 14.41 | 15.73 | 14.73 | 14.82 | 14.38 | |
| 7749 | 9/11/05 2:30 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7750 | 9/11/05 2:45 | 14.41 | 15.89 | 14.73 | 14.82 | 14.38 | |
| 7751 | 9/11/05 3:00 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7752 | 9/11/05 3:15 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7753 | 9/11/05 3:30 | 14.41 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7754 | 9/11/05 3:45 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7755 | 9/11/05 4:00 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 7756 | 9/11/05 4:15 | 14.41 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 7757 | 9/11/05 4:30 | 14.57 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 7758 | 9/11/05 4:45 | 14.57 | 15.89 | 15.04 | 14.82 | 14.38 | |
| 7759 | 9/11/05 5:00 | 14.72 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7760 | 9/11/05 5:15 | 14.57 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7761 | 9/11/05 5:30 | 14.72 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7762 | 9/11/05 5:45 | 14.72 | 15.89 | 14.88 | 14.82 | 14.38 | |
| 7763 | 9/11/05 6:00 | 14.57 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 7764 | 9/11/05 6:15 | 14.57 | 16.04 | 14.88 | 14.82 | 14.38 | |
| 7765 | 9/11/05 6:30 | 14.41 | 16.04 | 15.04 | 14.67 | 14.38 | |
| 7766 | 9/11/05 6:45 | 14.41 | 15.89 | 15.04 | 14.67 | 14.38 | |
| 7767 | 9/11/05 7:00 | 14.41 | 15.73 | 15.04 | 14.67 | 14.38 | |
| 7768 | 9/11/05 7:15 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7769 | 9/11/05 7:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7770 | 9/11/05 7:45 | 14.26 | 15.73 | 14.73 | 14.67 | 14.38 | |
| 7771 | 9/11/05 8:00 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7772 | 9/11/05 8:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7773 | 9/11/05 8:30 | 14.26 | 15.57 | 14.73 | 14.51 | 14.23 | |
| 7774 | 9/11/05 8:45 | 14.57 | 15.57 | 14.73 | 14.51 | 14.38 | |
| 7775 | 9/11/05 9:00 | 14.57 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7776 | 9/11/05 9:15 | 14.41 | 15.57 | 14.57 | 14.51 | 14.38 | |
| 7777 | 9/11/05 9:30 | 14.57 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7778 | 9/11/05 9:45 | 14.57 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7779 | 9/11/05 10:00 | 14.57 | 15.41 | 14.57 | 14.51 | 14.38 | |
| 7780 | 9/11/05 10:15 | 14.41 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7781 | 9/11/05 10:30 | 14.41 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7782 | 9/11/05 10:45 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7783 | 9/11/05 11:00 | 14.41 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7784 | 9/11/05 11:15 | 14.41 | 15.57 | 14.73 | 14.51 | 14.38 | |
| 7785 | 9/11/05 11:30 | 14.26 | 15.57 | 14.73 | 14.51 | 14.38 | |
| 7786 | 9/11/05 11:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7787 | 9/11/05 12:00 | 14.26 | 15.57 | 14.73 | 14.51 | 14.38 | |
| 7788 | 9/11/05 12:15 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7789 | 9/11/05 12:30 | 14.26 | 15.57 | 14.73 | 14.67 | 14.38 | |
| 7790 | 9/11/05 12:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7791 | 9/11/05 13:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7792 | 9/11/05 13:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7793 | 9/11/05 13:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7794 | 9/11/05 13:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7795 | 9/11/05 14:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7796 | 9/11/05 14:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7797 | 9/11/05 14:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7798 | 9/11/05 14:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7799 | 9/11/05 15:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7800 | 9/11/05 15:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7801 | 9/11/05 15:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7802 | 9/11/05 15:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7803 | 9/11/05 16:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7804 | 9/11/05 16:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7805 | 9/11/05 16:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7806 | 9/11/05 16:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7807 | 9/11/05 17:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7808 | 9/11/05 17:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7809 | 9/11/05 17:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7810 | 9/11/05 17:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7811 | 9/11/05 18:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7812 | 9/11/05 18:15 | 14.41 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7813 | 9/11/05 18:30 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7814 | 9/11/05 18:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7815 | 9/11/05 19:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7816 | 9/11/05 19:15 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7817 | 9/11/05 19:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7818 | 9/11/05 19:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7819 | 9/11/05 20:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7820 | 9/11/05 20:15 | 14.26 | 15.41 | 14.57 | 14.51 | 14.38 | |
| 7821 | 9/11/05 20:30 | 14.26 | 15.41 | 14.73 | 14.51 | 14.38 | |
| 7822 | 9/11/05 20:45 | 14.26 | 15.41 | 14.57 | 14.51 | 14.38 | |
| 7823 | 9/11/05 21:00 | 14.26 | 15.41 | 14.57 | 14.51 | 14.38 | |
| 7824 | 9/11/05 21:15 | 14.26 | 15.41 | 14.57 | 14.51 | 14.38 | |
| 7825 | 9/11/05 21:30 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7826 | 9/11/05 21:45 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7827 | 9/11/05 22:00 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7828 | 9/11/05 22:15 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7829 | 9/11/05 22:30 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7830 | 9/11/05 22:45 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7831 | 9/11/05 23:00 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7832 | 9/11/05 23:15 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7833 | 9/11/05 23:30 | 14.26 | 15.41 | 14.41 | 14.51 | 14.23 | |
| 7834 | 9/11/05 23:45 | 14.26 | 15.41 | 14.41 | 14.51 | 14.23 | |
| 7835 | 9/12/05 0:00 | 14.26 | 15.41 | 14.41 | 14.51 | 14.38 | |
| 7836 | 9/12/05 0:15 | 14.26 | 15.41 | 14.41 | 14.51 | 14.23 | |
| 7837 | 9/12/05 0:30 | 14.26 | 15.41 | 14.57 | 14.51 | 14.23 | |
| 7838 | 9/12/05 0:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7839 | 9/12/05 1:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7840 | 9/12/05 1:15 | 14.26 | 15.41 | 14.41 | 14.67 | 14.38 | |
| 7841 | 9/12/05 1:30 | 14.26 | 15.41 | 14.41 | 14.67 | 14.23 | |
| 7842 | 9/12/05 1:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7843 | 9/12/05 2:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7844 | 9/12/05 2:15 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7845 | 9/12/05 2:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7846 | 9/12/05 2:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7847 | 9/12/05 3:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7848 | 9/12/05 3:15 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7849 | 9/12/05 3:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7850 | 9/12/05 3:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7851 | 9/12/05 4:00 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7852 | 9/12/05 4:15 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7853 | 9/12/05 4:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.38 | |
| 7854 | 9/12/05 4:45 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7855 | 9/12/05 5:00 | 14.26 | 15.57 | 14.57 | 14.67 | 14.38 | |
| 7856 | 9/12/05 5:15 | 14.26 | 15.57 | 14.57 | 14.67 | 14.23 | |

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | | **Sta 2** | **Sta 3** | **Sta 4** | **Sta 5** | **Sta 6** | **Sta 7** |
| 2 | **Date & Time** | **POP** | **OBDI** | **POM** | **SIRP** | **CIA** | **NAV** |
| 7857 | 9/12/05 5:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7858 | 9/12/05 5:45 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7859 | 9/12/05 6:00 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7860 | 9/12/05 6:15 | 14.41 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7861 | 9/12/05 6:30 | 14.41 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7862 | 9/12/05 6:45 | 14.41 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7863 | 9/12/05 7:00 | 14.41 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7864 | 9/12/05 7:15 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7865 | 9/12/05 7:30 | 14.26 | 15.41 | 14.57 | 14.67 | 14.23 | |
| 7866 | 9/12/05 7:45 | 14.26 | 15.57 | 14.73 | 14.67 | 14.23 | |
| 7867 | 9/12/05 8:00 | 14.26 | 15.57 | 14.73 | 14.51 | 14.23 | |
| 7868 | 9/12/05 8:15 | 14.26 | 15.57 | 14.73 | 14.51 | 14.23 | |
| 7869 | 9/12/05 8:30 | 14.26 | 15.57 | 14.73 | 14.51 | 14.23 | |
| 7870 | 9/12/05 8:45 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7871 | 9/12/05 9:00 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7872 | 9/12/05 9:15 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7873 | 9/12/05 9:30 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7874 | 9/12/05 9:45 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |
| 7875 | 9/12/05 10:00 | 14.26 | 15.57 | 14.57 | 14.51 | 14.23 | |