

Appendix AB-I, Old and Middle River Flow Management

Attachment I.8 Particle Tracking Fate Modeling of Larval Smelt Entrainment

I.8.1 Delta Particle Tracking Modeling under Varying OMR Conditions

A sensitivity analysis using CalSim 3 and DSM2 Hydro and PTM models was conducted to assess relative risk of species at the export facilities and water supply effects under a set of different OMR limits on Delta operations. The CalSim 3 model simulated operational conditions (flows into the Delta and exports) under a range of OMR and Inflow (from Sacramento River and San Joaquin River) conditions. Using results of these CalSim 3 scenarios, DSM2 Hydro was used to determine Delta flow conditions, and respectively, DSM2 PTM module was used to assess entrainment of particles at export facilities under these varying conditions. DSM2 PTM was run in two modes: one assuming neutrally buoyant and one assuming surface-oriented particles. For each year in the 100-year CalSim 3 simulation period and for each mode, the model was run at 39 particle insertion locations in the Delta. For each month between December and June. Each insertion location was started at the beginning of each month and run for 45 days. The resulting 40,000+ simulations provided a wide variety of flow, particle insertion, and particle behavior conditions from which to draw conclusions.

I.8.2 Methods

I.8.2.1 DSM2 – PTM

DSM2-PTM simulates pseudo-3D transport of neutrally buoyant particles based on the flow field simulated by HYDRO. The PTM module simulates the transport and fate of individual particles traveling throughout the Delta. The model uses geometry files, velocity, flow, and stage output from the HYDRO module to monitor the location of each individual particle using assumed vertical and lateral velocity profiles and specified random movement to simulate mixing. The location of a particle in a channel is determined as the distance from the downstream end of the channel segment (x), the distance from the centerline of the channel (y), and the distance above the channel bottom (z). PTM has multiple applications ranging from visualization of flow patterns to simulation of discrete organisms such as fish eggs and larvae.

The longitudinal distance traveled by a particle is determined from a combination of the lateral and vertical velocity profiles in each channel. The transverse velocity profile simulates the effects of channel shear that occurs along the sides of a channel. The result is varying velocities across the width of the channel. The average cross-sectional velocity is multiplied by a factor based on the particle's transverse location in the channel. The model uses a fourth order polynomial to represent the velocity profile. The vertical velocity profile shows that particles located near the bottom of the channel move more slowly than particles located near the surface. The model uses the Von Karman logarithmic profile to create the velocity profile. Particles also move as a result of random mixing. The mixing rates (i.e., distances) are a function of the water depth and the velocity in the channel. Higher velocities and deeper water result in greater mixing.

At a junction, the path of a particle is determined randomly based on the proportion of flow. The proportion of flow determines the probability of movement into each reach. A random number, based on this determined probability, then governs where the particle will go. A particle that moves into an open water area, such as a reservoir, no longer retains its position information. A DSM2 open water area is considered a fully mixed reactor. The path out of the open water area is a decision based on the volume in the open water area, the time step, and the flow out of the area. At the beginning of a time step, the volume of the open water area, the volume of water leaving at each opening of the open water area, is determined. From that, the probability of the particle leaving the open water area is calculated. Particles entering exports or agricultural diversions are considered "lost" from the system. Their final destination is recorded. Once particles pass the Martinez boundary, they have no opportunity to return to the Delta (Smith 1998; Wilbur 2001; Miller 2002).

Particle tracking models (PTM) are excellent tools to visualize and summarize the impacts of modified hydrodynamics in the Delta. These tools can simulate the movement of passive particles or particles with behavior representing either larval or adult fish through the Delta. The PTM tools can provide important information relating hydrodynamic results to the analysis needs of biologists that are essential in assessing the impacts to the habitat in the Delta.

I.8.2.2 DSM2 – PTM Metrics

Fate Mapping – an indicator of entrainment. It is the percent of particles that go past various exit points in the system at the end of a given number of days after insertion.

I.8.2.3 PTM Particle Behavior

PTM simulations were conducted with passive particles and surface-oriented particles. Passive particles, representing behavior of larval Delta smelt, are distributed throughout the water column. Surface-oriented particles, representing behavior of larval longfin smelt, tend towards the top 10% of the water column. To assess effects of surface-oriented assumptions of larval longfin smelt fate, passive particle simulations were also conducted for larval longfin smelt.

I.8.2.4 PTM Period Selection

PTM simulation periods for the fate computations were in December through June in all the 100 years of the planning simulation period. The frequency of inflow pairings during December through March was calculated, and this reflects the timing for larval longfin smelt. As such, passive and surface-oriented particle simulations were conducted during this period. The frequency of inflow pairing during March through June was calculated, and this period reflects timing of larval Delta smelt. As such, passive particle simulations were conducted during this period.

I.8.2.5 PTM Simulations

PTM simulations are performed to derive the metrics described above. The particles are inserted at the 39 locations listed in Table I.8-1. The locations were identified based on the 20 mm Delta Smelt Survey Stations. Figure I.8-1 displays 20 mm Delta Smelt Survey Stations and particle insertion locations.

A total of 39 PTM simulations are performed in a batch mode for each insertion period. For each insertion period, 4,000 particles are inserted at the identified locations over a 24.75-hour period, starting on the 1st of the selected month. The fate of the inserted particles is tracked continuously over a 90-day simulation period. The particle flux is tracked at the key exit locations – exports, Delta agricultural intakes, past Chipps Island, to Suisun Marsh and past Martinez, and at several internal tracking locations. Generally, the fate of particles at the end 45 days after insertion is computed for the fate mapping analysis.

Table I.8-1. List of Particle Insertion Locations for Residence Time and Fate Computations

| Location | DSM2 Node |
|---|-----------|
| San Joaquin River at Vernalis | 1 |
| San Joaquin River at Mossdale | 7 |
| San Joaquin River D/S of Rough and Ready Island | 21 |
| San Joaquin River at Buckley Cove | 25 |
| San Joaquin River near Medford Island | 34 |
| San Joaquin River at Potato Slough | 39 |
| San Joaquin River at Twitchell Island | 41 |
| Old River near Victoria Canal | 75 |
| Old River at Railroad Cut | 86 |
| Old River near Quimby Island | 99 |
| Middle River at Victoria Canal | 113 |
| Middle River u/s of Mildred Island | 145 |
| Grant Line Canal | 174 |
| Frank's Tract East | 232 |
| Threemile Slough | 240 |

| Location | DSM2 Node |
|---|-----------|
| Little Potato Slough | 249 |
| Mokelumne River d/s of Cosumnes confluence | 258 |
| South Fork Mokelumne | 261 |
| Mokelumne River d/s of Georgiana confluence | 272 |
| North Fork Mokelumne | 281 |
| Georgiana Slough | 291 |
| Miner Slough | 307 |
| Sacramento Deep Water Ship Channel | 314 |
| Cache Slough at Shag Slough | 321 |
| Cache Slough at Liberty Island | 323 |
| Lindsey slough at Barker Slough | 322 |
| Sacramento River at Sacramento | 330 |
| Sacramento River at Sutter Slough | 339 |
| Sacramento River at Ryde | 344 |
| Sacramento River near Cache Slough confluence | 350 |
| Sacramento River at Rio Vista | 351 |
| Sacramento River d/s of Decker Island | 353 |
| Sacramento River at Sherman Lake | 354 |
| Sacramento River at Port Chicago | 359 |
| Montezuma Slough at Head | 418 |
| Montezuma Slough at Suisun Slough | 428 |
| San Joaquin River d/s of Dutch Slough | 461 |
| Sacramento River at Pittsburg | 465 |
| San Joaquin River near Jersey Point | 469 |

I.8.2.6 Output Parameters

The particle tracking models can be used to assist in understanding passive fate and transport, or through consideration of behavior or residence time. In, general the following outputs are generated:

- Fate of particles and cut lines or regions.
- Time of travel breakthrough curves.
- Residence time.

For the purposes of this effort, only particle fate outputs were assessed.

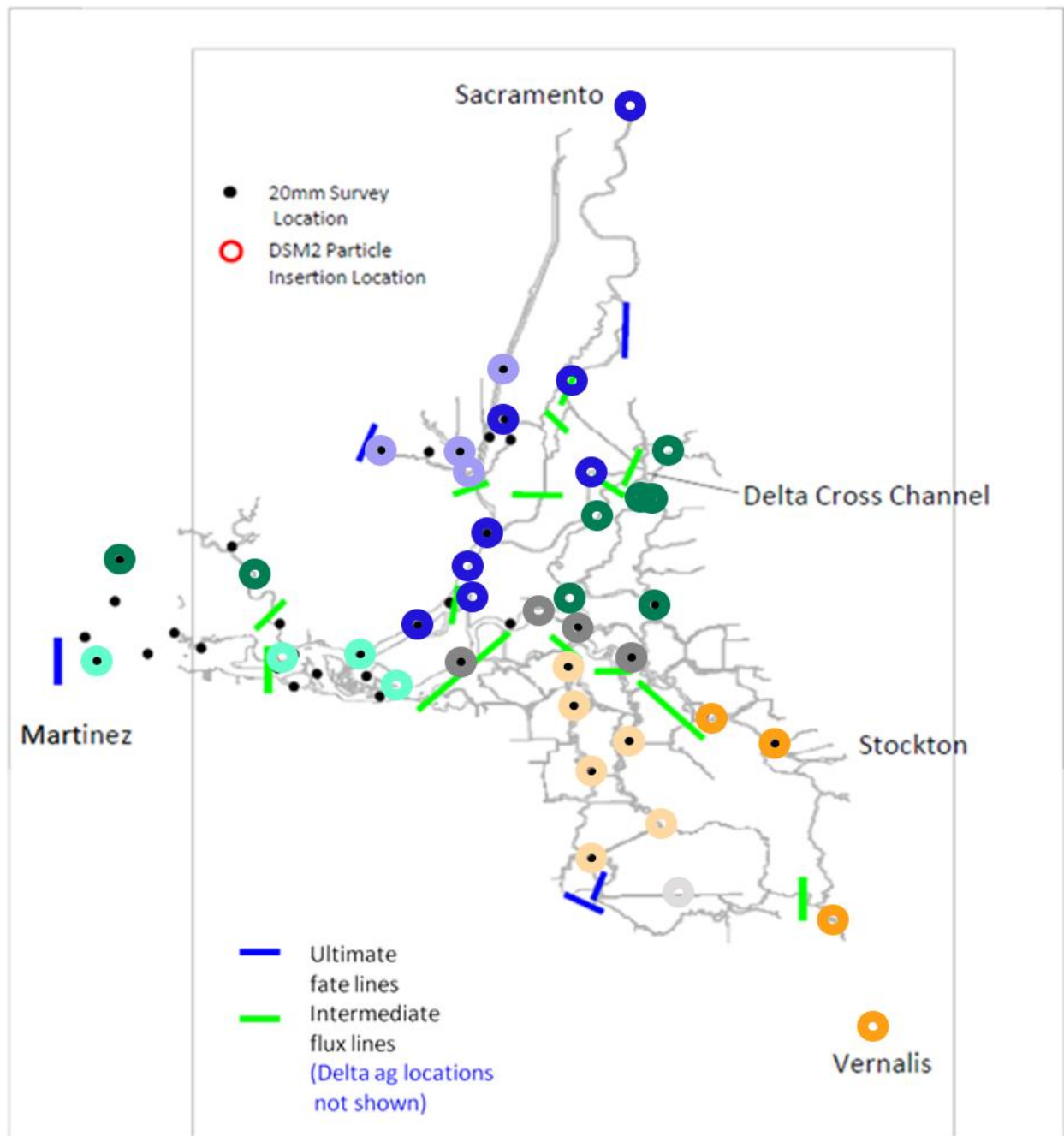


Figure I.8-1. Particle Insertion Locations for Fate Computations, Color-Coded by Yolo (purple), Sacramento River (dark blue), Mokelumne River (green), Central (dark gray), Old and Middle River (OMR) (light orange), San Joaquin River (orange), South Delta (light gray), West Delta (turquoise), and Suisun Marsh Regions (green)

I.8.3 Assumptions / Uncertainty

PTM modeling results of neutrally buoyant particles serve as a proxy for larval Delta Smelt which can be found distributed throughout the water column and throughout the Delta. PTM results for neutrally buoyant particles are aggregated March through June.

PTM modeling results of surface-oriented particles serve as a proxy for larval Longfin Smelt which tend to be found towards the top 10% of the water column and throughout the Delta. PTM results for surface-oriented particles are aggregated December through March.

I.8.4 Results

NMFS 2019 Biological Opinion criteria for proportion and frequency were applied to identify which injection site regions were highlighted in the narrative discussion. Injection regions and particle fate locations not discussed in the narratives were identified as locations where there was less variability in particle fate across bins.

- Proportion thresholds are as follows: low 0% – 2%, medium 2% - 70% high: 70% - 100%.
- Frequency thresholds are as follows: low 0% - 25%, medium 25% - 75%, high 75% - 100%.

Both types of particles (neutrally buoyant, surface oriented) and both bin types (Inflow, OMR) were assessed.

For each BA modeled scenario (excluding EXP1 and EXP3) and bin, the predicted percent of particles injected at a certain location with a fate at the facilities (reducing OMR and inflow bins) was assessed using this method:

- Remove all fate locations that are not *Entrained at Exports*, which are *West of Chipps*, *Remaining in Delta*, and *Crossed the San Joaquin River to South Delta*.
- Identify which of the fate percentages fall in the medium NMFS proportion category (2% - 70%) across all OMR or inflow bins for modeled scenarios (No Action Alternative and 4 phases of Alternative 2).
- Identify the percentage of those instances (from above) where the medium proportion categories occurred out of the total possible predictions.
- Identify the regions which had a low, medium, and high NMFS frequency category (25% - 75%) for instances of medium proportion category (2% - 70%).
- Use identified regions for narrative discussion including descriptions of those regions that fall inside or outside the above conditions.

As an example, from the method for BA modeled scenarios, neutrally buoyant particles (1 particle type) injected in the *Sacramento River Region* (1 region) binned across Inflow bins (9 groups) and considering a single fate location (*Entrained at Exports*, 1 location) for modeled scenarios (5 scenarios) results in consideration of 45 possible estimates. 32 of the 45 possible values (71%) for particles injected in the Sacramento River Region fall into the medium proportion category (2% - 70%). A 71% frequency of medium proportion falls inside the medium frequency bounds (25% - 75%); thus, the Sacramento River Region injection site was included in the narrative discussion. Suggesting that regardless of inflows and OMR considered, a medium proportion of particles always arrive at the facilities from the Sacramento River.

For each EIS modeled scenario and bin, the predicted percent of particles injected at a certain location with a fate at the facilities (reducing OMR or inflow bins) was assessed using this method:

- Remove all fate locations that are not *Entrained at Exports*, which are *West of Chipps*, *Remaining in Delta*, and *Crossed the San Joaquin River to South Delta*.
- Identify which of the fate percentages fall in the medium NMFS proportion category (2% - 70%) reducing OMR and inflow bins, and modeled scenarios.
- Identify the percentage of those instances (from above) where the medium proportion categories occurred out of the total possible predictions.
- Identify the regions which had a low, medium, and high NMFS frequency category (25% - 75%) for instances of medium proportion category (2% - 70%).
- Use identified regions for narrative discussion including descriptions of those regions that fall inside or outside the above conditions.

As an example, from the method for EIS modeled scenarios, neutrally buoyant particles (1 particle type) injected in the *Sacramento River Region* (1 region) binned across Inflow bins (9 groups) and considering a single fate location (*Entrained at Exports*, 1 location) for modeled scenarios (8 scenarios) results in consideration of 72 possible estimates. 50 of the 72 possible values (69%) for particles injected in the Sacramento River Region fall into the medium proportion category (2% - 70%). A 69% frequency of medium proportion falls inside the medium frequency bounds (25% - 75%); thus, the Sacramento River Region injection site was included in the narrative discussion. Suggesting that regardless of inflows and OMR considered, a medium proportion of particles always arrive at the facilities from the Sacramento River.

All model results are provided in the tables and figures below.

The following regions were identified for discussion in the Biological Assessment (BA) narratives:

- For neutrally buoyant particles grouped by Inflow bins
 - 3 out of the 9 injection regions are representative of medium frequency of medium proportion in the Bay Delta: *Sacramento River Region*, *San Joaquin River Region*, and *Yolo Bypass Region*.

- 4 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Old and Middle River Region, Western Delta Region, Southern Delta Region, and Suisun Bay Region*
- 2 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region and Mokelumne River Region*
- 3 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.
- For surface-oriented particles grouped by Inflow bins
 - 3 out of the 9 injection regions are representative of medium frequency of medium proportion in the Bay Delta: *Sacramento River Region, Western Delta Region, and Yolo Bypass Region.*
 - 4 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *San Joaquin River Region, Old and Middle River Region, Southern Delta Region, Suisun Bay Region*
 - 2 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region and Mokelumne River Region*
 - 3 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.
- For neutrally buoyant particles grouped by OMR bins
 - 4 out of the 9 injection regions is representative of medium frequency of medium proportion in the Bay Delta: *San Joaquin River Region, Central Delta Region, Mokelumne River Region, and Sacramento River Region*
 - 5 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Yolo Bypass, Old and Middle River Region, Southern Delta Region, Suisun Bay Region, and Western Delta Region*
 - None of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta.
 - 4 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.

- For surface-oriented particles grouped by OMR bins
 - 3 out of the 9 injection regions are representative of medium frequency of medium proportion in the Bay Delta: *Central Delta Region, Mokelumne River Region, and Yolo Bypass Region*
 - 5 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Western Delta Region, Suisun Bay Region, Southern Delta Region, San Joaquin River Region, and Old and Middle River Region*
 - 1 out of the 9 injection regions is representative of high frequency of medium proportion in the Bay Delta: *Sacramento River*
 - 3 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.

The following regions were identified for discussion in the Environmental Impact Statement (EIS) narratives:

- For neutrally buoyant particles grouped by Inflow bins
 - 3 out of the 9 injection regions are representative of medium frequency of medium proportion in the Bay Delta: *Sacramento River Region, San Joaquin River Region, and Yolo Bypass Region.*
 - 4 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Western Delta Region, Suisun Bay Region, Old and Middle River Region, and Southern Delta Region*
 - 2 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region and Mokelumne River Region*
 - 3 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.
- For surface-oriented particles grouped by Inflow bins
 - 2 out of the 9 injection regions are representative of medium frequency of medium proportion in the Bay Delta: *Western Delta Region and Yolo Bypass Region.*
 - 4 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Old and Middle River Region, San Joaquin River Region, Southern Delta Region, and Suisun Bay Region*

- 3 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region*, *Mokelumne River Region*, and *Sacramento River Region*
- 2 medium injection regions are discussed in the narrative below. The impacts of regions with either low or high, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.
- For neutrally buoyant particles grouped by OMR bins
 - 1 out of the 9 injection regions is representative of medium frequency of medium proportion in the Bay Delta: *San Joaquin River Region*.
 - 5 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Old and Middle River Region*, *Southern Delta Region*, *Suisun Bay Region*, *Western Delta Region*, and *Yolo Bypass Region*
 - 3 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region*, *Mokelumne River Region*, and *Sacramento River Region*
 - 1 medium injection region is discussed in the narrative below. The impacts of regions with either a low or high proportion, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.
- For surface-oriented particles grouped by OMR bins
 - 1 out of the 9 injection regions is representative of medium frequency of medium proportion in the Bay Delta: *Western Delta Region*.
 - 4 out of the 9 injection regions are representative of low frequency of medium proportion in the Bay Delta: *Old and Middle River Region*, *San Joaquin River Region*, *Southern Delta Region*, and *Suisun Bay Region*
 - 4 out of the 9 injection regions are representative of high frequency of medium proportion in the Bay Delta: *Central Delta Region*, *Mokelumne River Region*, *Sacramento River Region*, and *Yolo Bypass Region*
 - 1 medium injection region is discussed in the narrative below. The impacts of regions with either a low or high proportion, representing fate with a low effect (< 2%, impacts of export facilities consistently low) or high effect (> 70%, impacts of export facilities consistently high) respectively, and not included in narratives.

I.8.4.1 Narrative: BA

I.8.4.1.1 Neutrally Buoyant, Inflow Bins: Table I.8-2 through Table I.8-10 (BA) || Figure I.8-1 through Figure I.8-10

Neutrally buoyant particle percent of particle fate is an average over the months of March through June. 3 regions were selected out of the 9 injection regions for neutrally buoyant particles grouped by Inflow bins as representative of medium frequency of a medium proportion in the Bay Delta: *Sacramento River Region*, *San Joaquin River Region*, and *Yolo Bypass Region*.

- **Injection Point:** *Sacramento River Region*; **Particle Fate:** *Entrained at Exports*
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 0% (No Action Alternative and all four phases of Alternative 2 under Inflow bin “himed”) to 3% (No Action Alternative under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 2% (No Action Alternative and all four phases of Alternative 2 under Inflow bin “medhi”) to 16% (No Action Alternative under Inflow bin “medlo”).
 - For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 4% (No Action Alternative under Inflow bin “lohi”) to 9% (Alternative 2 without TUCP Delta VA and without TUCP All VA under Inflow bin “lolo”).
- **Injection Point:** *San Joaquin River Region*; **Particle Fate:** *Entrained at Exports*
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 45% (No Action Alternative and Alternative 2 without TUCP Delta VA under Inflow bin “hihi”) to 90% (Alternative 2 with TUCP without VA and without TUCP without VA under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 53% (No Action Alternative under Inflow bin “medhi”) to 86% (No Action Alternative under Inflow bin “medlo”).
 - For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 61% (No Action Alternative under Inflow bin “lolo”) to 71% (Alternative 2 with TUCP without VA under Inflow bin “lohi” and Alternative 2 without TUCP without VA under Inflow bin “lomed”).

- **Injection Point:** *Yolo Bypass Region*; **Particle Fate:** *Entrained at Exports*
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 0% (No Action Alternative and all phases of Alternative 2 under Inflow bin “hihi” and “himed”, Alternative 2 with TUCP without VA and without TUCP without VA under Inflow bin “hilo”) to 1% (No Action Alternative under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 1% (No Action Alternative and all phases of Alternative 2 under Inflow bin “medhi”, Alternative 2 with TUCP without VA, Alternative 2 without TUCP without VA and Alternative 2 without TUCP All VA under Inflow bin “medmed”) to 6% (No Action Alternative under Inflow bin “medlo”).
 - For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 2% (No Action Alternative and all phases of Alternative 2 under Inflow bin “lohi”; Alternative 2 with TUCP without VA, without TUCP without VA, and without TUCP Delta VA under Inflow bin “lomed”; No Action Alternative, Alternative 2 with TUCP without VA and without TUCP without VA under Inflow bin “lolo”) to 4% (Alternative 2 with TUCP All VA under Inflow bin “lolo”).

There are several injection regions for neutrally buoyant particles grouped by Inflow bins which technically are classified as low frequency of a medium proportion. However, these regions fall into this classification bin because there are no instances of a medium proportion. Regions that fall into this category are *Southern Delta Region* and *Suisun Bay Region*. *Southern Delta Region* and *Suisun Bay Region* show a high frequency of a high proportion and a high frequency of low proportion, respectively, of particle entrainment at the facilities. Particles injected in the *Southern Delta Region* are highly likely to become entrained at facilities while those injected in *Suisun Bay Region* are highly unlikely to become entrained at facilities.

1.8.4.1.2 Surface Oriented, Inflow Bins: Table 1.8-11 through Table 1.8-19 (BA) || Figure 1.8-20 through Figure 1.8-28

Surface oriented particle percent of particle fate is an average over the months of December through March. 3 regions were selected out of 9 injection regions for surface-oriented particles grouped by Inflow bins as representative of medium frequency of a medium proportion in the Bay Delta: *Sacramento River Region*, *Western Delta Region*, and *Yolo Bypass Region*.

- **Injection Point:** *Sacramento River Region*; **Particle Fate:** *Entrained at Exports*
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 1% (No Action Alternative and all phases of Alternative 2 under Inflow bin “hihi”) to 5% (No Action Alternative and all phases of Alternative 2 under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 3% (No Action

Alternative and Alternative 2 without TUCP Delta VA and without TUCP All VA under Inflow bin “medhi”) to 15% (No Action Alternative under Inflow bin “medlo”).

- For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 7% (Alternative 2 without TUCP Delta VA and without TUCP All VA under Inflow bin “lomed”) to 16% (No Action Alternative under Inflow bin “lohi”).
- **Injection Point: *Western Delta Region*; Particle Fate: *Entrained at Exports***
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 0% (No Action Alternative and all phases of Alternative 2 under Inflow bin “hihi” and “himed”; No Action Alternative, Alternative 2 with TUCP without VA, Alternative 2 without TUCP without VA, and Alternative 2 without TUCP Delta VA under Inflow bin “hilo”) to 1% (Alternative 2 without TUCP All VA under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 0% (No Action Alternative and all phases of Alternative 2 under Inflow bin “medhi”) to 4% (No Action Alternative and all phases of Alternative 2 under Inflow bin “medlo”).
 - For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 1% (Alternative 2 without TUCP Delta VA and without TUCP All VA under Inflow bin “lomed”) to 4% (No Action Alternative and all phases of Alternative under Inflow bin “lolo”; No Action Alternative, Alternative 2 without TUCP Delta VA, Alternative 2 without TUCP All VA under Inflow bin “lohi”).
- **Injection Point: *Yolo Bypass Region*; Particle Fate: *Entrained at Exports***
 - For the Inflow bins with high Sacramento River influence (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 0% (No Action Alternative and all phases of Alternative 2 under Inflow bin “hihi”) to 2% (Alternative 2 without TUCP without VA and without TUCP Delta VA under Inflow bin “hilo”).
 - For the Inflow bins with medium Sacramento River influence (“medhi”, “medmed”, and “medlo”), mean particle percentage ranged from 1% (No Action Alternative and all phases of Alternative 2 under Inflow bin “medhi”) to 6% (No Action Alternative and all phases of Alternative 2 under Inflow bin “medlo”).
 - For the Inflow bins with low Sacramento River influence (“lohi”, “lomed”, and “lolo”), mean particle percentage ranged from 3% (Alternative 2 without TUCP Delta VA and without TUCP All VA under Inflow bin “lomed”) to 7% (No Action Alternative, Alternative 2 with TUCP without VA, Alternative 2 without TUCP Delta VA under Inflow bin “lohi”; No Action Alternative, Alternative 2 with TUCP without VA, Alternative 2 without TUCP Delta VA under Inflow bin “lolo”).

There are several injection regions for surface-oriented particles grouped by Inflow bins which technically are classified as low frequency of a medium proportion. However, these regions fall into this classification bin because there are no instances of a medium proportion. Regions that fall into this category are *Old and Middle River Region*, *Southern Delta Region*, and *Suisun Bay Region*. *Old and Middle River Region* and *Southern Delta Region* show a high frequency of a high proportion of particle entrainment at the facilities. Suisun Bay Region shows a high frequency of a low proportion of particle entrainment at the facilities. Particles injected in the *Old and Middle River Region* and *Southern Delta Region* are highly likely to become entrained at facilities while those injected in *Suisun Bay Region* are highly unlikely to become entrained at facilities.

1.8.4.1.3 Neutrally Buoyant, OMR Bins: Table 1.8-20 through Table 1.8-28 (BA) || Figure 1.8-11 through Figure 1.8-19

Neutrally buoyant particle percent of particle fate is an average over the months of March through June. 4 regions were selected out of the 9 injection regions for neutrally buoyant particles grouped by OMR bins as representative of medium frequency of a medium proportion in the Bay Delta: *San Joaquin River Region*, *Central Delta Region*, *Mokelumne River Region*, and *Sacramento River Region*. The most negative OMR bin (-5,500) resulted in “NA” for all regions, fate locations, and alternatives.

- **Injection Point:** *San Joaquin River Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 56% (Alternative 2 with TUCP without VA) to 59% (No Action Alternative). For OMR bin -3,500, mean particle percentage ranged from 69% (No Action Alternative and Alternative 2 without TUCP Delta VA) to 72% (Alternative 2 with TUCP without VA and without TUCP without VA). For OMR bin -5,000, mean particle percentage ranged from 76% (Alternative 2 without TUCP without VA) to 88% (No Action Alternative).
- **Injection Point:** *Central Delta Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 14% (Alternative 2 with TUCP without VA, Alternative 2 without TUCP Delta VA, and Alternative 2 without TUCP All VA) to 15% (No Action Alternative and Alternative 2 without TUCP without VA). For OMR bin -3,500, mean particle percentage ranged from 19% (No Action Alternative) to 22% (Alternative 2 with TUCP without VA and Alternative 2 without TUCP All VA). For OMR bin -5,000, mean particle percentage ranged from 23% (Alternative 2 without TUCP without VA and with TUCP without VA) to 44% (No Action Alternative).

- **Injection Point:** *Mokelumne River Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 13% (Alternative 2 with TUCP without VA) to 16% (No Action Alternative). For OMR bin -3,500, mean particle percentage ranged from 24% (No Action Alternative) to 28% (Alternative 2 without TUCP All VA). For OMR bin -5,000, mean particle percentage ranged from 34% (Alternative 2 with TUCP without VA and without TUCP without VA) to 59% (No Action Alternative).
- **Injection Point:** *Sacramento River Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage was 3% under the No Action Alternative and all four phases of Alternative 2. For OMR bin -3,500, mean particle percentage ranged from 3% (No Action Alternative, Alternative 2 with TUCP without VA and without TUCP without VA) to 4% (Alternative 2 without TUCP Delta VA and without TUCP All VA). For OMR bin -5,000, mean particle percentage ranged from 5% (Alternative 2 with TUCP without VA and without TUCP without VA) to 14% (No Action Alternative).

There are several injection regions for neutrally buoyant particles grouped by OMR bins which technically are classified as low frequency of a medium proportion. However, these regions fall into this classification bin because there are no instances of a medium proportion. Regions that fall into this category are *Old and Middle River Region*, *Southern Delta Region*, *Western Delta Region*, and *Suisun Bay Region*. *Old and Middle River Region* and *Southern Delta Region* show a medium frequency of a high proportion of particle entrainment at the facilities. *Western Delta Region* and *Suisun Bay Region* show a medium frequency of a low proportion of particle entrainment at the facilities. Particles injected in the *Old and Middle River Region* and *Southern Delta Region* are somewhat likely to become entrained at facilities while those injected in *Western Delta Region* and *Suisun Bay Region* are somewhat unlikely to become entrained at facilities.

1.8.4.1.4 Surface Oriented, OMR Bins: Table 1.8-29 through Table 1.8-37 (BA) || Figure 1.8-29 through Figure 1.8-37

Surface oriented particle percent of particle fate is an average over the months of December through March. 3 regions were selected out of the 9 injection regions for surface-oriented particles grouped by OMR bins as representative of medium frequency of a medium proportion in the Bay Delta: *Central Delta Region*, *Mokelumne River Region*, and *Yolo Bypass Region*.

- **Injection Point:** *Central Delta Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 15% (Alternative 2 without TUCP Delta VA) to 26% (Alternative 2 with TUCP without VA). For OMR bin -3,500, mean particle percentage ranged from 28% (No Action Alternative) to 32% (Alternative 2 without TUCP Delta VA and without TUCP All VA). For OMR bin -5,000, mean particle percentage ranged from 39% (all four phases of Alternative 2) to 42% (No Action Alternative). For the most negative OMR bin (-5,500), mean particle percentage ranged from 80% (all four phases of Alternative 2) to 81% (No Action Alternative).

- **Injection Point:** *Mokelumne River Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 16% (Alternative 2 without TUCP Delta VA) to 27% (Alternative 2 without TUCP without VA). For OMR bin -3,500, mean particle percentage ranged from 34% (No Action Alternative) to 39% (Alternative 2 without TUCP Delta VA and without TUCP All VA). For OMR bin -5,000, mean particle percentage ranged from 48% (Alternative 2 with TUCP without VA, Alternative 2 without TUCP without VA, Alternative 2 without TUCP Delta VA) to 53% (No Action Alternative). For the most negative OMR bin (-5,500), mean particle percentage ranged from 78% (No Action Alternative, Alternative 2 with TUCP without VA, Alternative 2 without TUCP without VA, Alternative 2 without TUCP All VA) to 79% (Alternative 2 without TUCP Delta VA).
- **Injection Point:** *Yolo Bypass Region*; **Particle Fate:** *Entrained at Exports*
 - For the least negative OMR bin (-2,000), mean particle percentage ranged from 1% (Alternative 2 without TUCP Delta VA and without TUCP All VA) to 3% (No Action Alternative, Alternative 2 with TUCP without VA, Alternative 2 without TUCP without VA). For OMR bin -3,500, mean particle percentage was 2% under the No Action Alternative and all four phases of Alternative 2. For OMR bin -5,000, mean particle percentage was 3% under the No Action Alternative and all four phases of Alternative 2. For the most negative OMR bin (-5,500), mean particle percentage was 16% under the No Action Alternative and all four phases of Alternative 2.

There are several injection regions for surface-oriented particles grouped by OMR bins which technically are classified as low frequency of a medium proportion. However, these regions fall into this classification bin because there are no instances of a medium proportion. Regions that fall into this category are *Old and Middle River Region*, *Southern Delta Region*, and *Suisun Bay Region*. *Old and Middle River Region* and *Southern Delta Region* show a high frequency of a high proportion of particle entrainment at the facilities. *Suisun Bay Region* shows a high frequency of a low proportion particle entrainment at the facilities. Particles injected in the *Old and Middle River Region* and *Southern Delta Region* are highly likely to become entrained at facilities while those injected in *Suisun Bay Region* are highly unlikely to become entrained at facilities.

I.8.4.2 Narrative: EIS

I.8.4.2.1 Neutrally Buoyant, Inflow Bins: Table I.8-38 through Table I.8-46 (EIS) || Figure I.8-38 through Figure I.8-46

3 injection regions were selected for neutrally buoyant particles grouped by Inflow bins as representative of medium frequency of a medium proportion in the Bay Delta: the *Sacramento River Region*, *San Joaquin River Region*, and *Yolo Bypass Region*. The following narrative is percent of particles injected in the *Sacramento River Region*, *San Joaquin River Region*, and *Yolo Bypass Region* with a fate at *Entrained at Exports*.

- **Injection region: *Sacramento River Region***
 - Under high Sacramento inflow bins (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 343% greater (Alternative 1 under inflow bin “himed”, 8%) to 58% less (Alternative 3 under inflow bin “hihi”, 0%) compared to the No Action Alternative.
 - Under medium Sacramento inflow bins (“medhi”, “medmed”, “medlo”), mean particle percentage ranged from 116% greater (Alternative 1 under inflow bin “medhi”, 3%) to 89% less (Alternative 3 under inflow bin “medmed”, 1%) compared to the No Action Alternative.
 - Under low Sacramento inflow bins (“lohi”, “lomed”, “lolo”), mean particle percentage ranged from 38% greater (Alternative 2 without TUCP All VA under inflow bin “lolo”, 9%) to 84% less (Alternative 3 under inflow bin “lomed”, 1%) compared to the No Action Alternative.
- **Injection region: *San Joaquin River Region***
 - Under high Sacramento inflow bins (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 22% greater (Alternative 1 under inflow bin “hihi”, 55%) to 52% less (Alternative 3 under inflow bin “hihi”, 22%) compared with the No Action Alternative.
 - Under medium Sacramento inflow bins (“medhi”, “medmed”, “medlo”), mean particle percentage ranged from 38% greater (Alternative 1 under inflow bin “medhi”, 73%) to 60% less (Alternative 3 under inflow bin “medhi”, 21%) compared with the No Action Alternative.
 - Under low Sacramento inflow bins (“lohi”, “lomed”, “lolo”), mean particle percentage ranged from 13% greater (Alternative 2 with TUCP without VA and Alternative 4 under Inflow bin “lohi”, 71%) to 45% less (Alternative 3 under Inflow bin “lomed”, 38%) compared with the No Action Alternative.
- **Injection region: *Yolo Bypass Region***
 - Under high Sacramento inflow bins (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 435% greater (Alternative 1 under inflow bin “himed”, 2%) to 74% less (Alternative 3 under inflow bin “hihi”, 0%) compared to the No Action Alternative. Note that a 435% increase and 74% decrease reflect a percent different calculation.
 - Under medium Sacramento inflow bins (“medhi”, “medmed”, “medlo”), mean particle percentage ranged from 77% greater (Alternative 1 under inflow bin “medhi”, 1%) to 96% less (Alternative 3 under inflow bin “medhi”, 0%) compared to the No Action Alternative.

- Under low Sacramento inflow bins (“lohi”, “lomed”, “lolo”), mean particle percentage ranged from 42% greater (Alternative 2 without TUCP All VA under inflow bin “lolo”, 4%) to 90% less (Alternative 3 under inflow bin “lomed”, 0%) compared to the No Action Alternative.

1.8.4.2.2 Surface Oriented, Inflow Bins: Table 1.8-47 through Table 1.8-55 (EIS)

2 injection regions were selected for surface-oriented particles grouped by inflow bins as representative of medium frequency of a medium proportion in the Bay Delta: the *Western Delta Region* and *Yolo Bypass Region*. The following narrative is percent of particles injected in the *Western Delta Region* and *Yolo Bypass Region* with a fate at Entrained at Exports.

- **Injection region: *Western Delta Region***
 - Under high Sacramento inflow bins (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 2262% greater (Alternative 1 under Inflow bin “hihi”, 0%) to 64% less (Alternative 3 under Inflow bin “hihi”, 0%) compared to the No Action Alternative. Note that a 2262% increase and 64% decrease reflect a percent different calculation.
 - Under medium Sacramento inflow bins (“medhi”, “medmed”, “medlo”), mean particle percentage ranged from 211% greater (Alternative 1 under Inflow bin “medhi”, 1%) to 98% less (Alternative 3 under Inflow bin “medhi”, 0%) compared to the No Action Alternative. Note that a 211% increase and 98% decrease reflect a percent difference calculation.
 - Under low Sacramento inflow bins (“lohi”, “lomed”, “lolo”), mean particle percentage ranged from 31% greater (Alternative 1 under Inflow bin “lomed”, 3%) to 94% less (Alternative 4 under inflow bin “lohi”, 0%) compared to the No Action Alternative.
- **Injection region: *Yolo Bypass Region***
 - Under high Sacramento inflow bins (“hihi”, “himed”, and “hilo”), mean particle percentage ranged from 517% (Alternative 1 under inflow bin “himed”, 4%) to 40% less (Alternative 3 under inflow bin “hilo”, 1%) compared to the No Action Alternative.
 - Under medium Sacramento inflow bins (“medhi”, “medmed”, “medlo”), mean particle percentage ranged from 131% greater (Alternative 1 under Inflow bin “medmed”, 8%) to 96% less (Alternative 3 under inflow bin “medhi”, 0%) compared to the No Action Alternative.
 - Under low Sacramento inflow bins (“lohi”, “lomed”, “lolo”), mean particle percentage ranged from 42% greater (Alternative 1 under inflow bin “lolo”, 10%) to 84% less (Alternative 3 under inflow bin “lohi”, 1%) compared to the No Action Alternative.

1.8.4.2.3 *Neutrally Buoyant, OMR Bins: Table 1.8-56 through Table 1.8-64 (EIS) || Figure 1.8-47 through Figure 1.8-55*

1 injection region was selected for neutrally buoyant particles grouped by OMR bins as representative of medium frequency of a medium proportion in the Bay Delta: the *San Joaquin River Region*. The following narrative is percent of particles injected in the *San Joaquin River Region* with a fate at *Entrained at Exports*.

- Under OMR bin -5,500 conditions, mean particle percentage was “NA” for all alternatives including the No Action Alternative excepting Alternative 1 (91%).
- Under OMR bin -5,000 conditions, mean particle percentage ranged from 9% lower (Alternative 3 and Alternative 4, 80%) to 13% lower (Alternative 2 with TUCP without VA and without TUCP without VA, 77%) compared with the No Action Alternative.
- Under OMR bin -3,500 conditions, mean particle percentage ranged from 6% greater (Alternative 4, 73%) compared with the No Action Alternative to equal to the No Action Alternative (Alternative 2 without TUCP Delta VA and Alternative 3, 69%). Under OMR bin -2,000 conditions, mean particle percentage ranged from 1% less (Alternative 2 without TUCP without VA and without TUCP All VA, 58%) to 13% lower (Alternative 3, 51%) compared with the No Action Alternative.

1.8.4.2.4 *Surface Oriented, OMR Bins: Table 1.8-65 through Table 1.8-73 (EIS)*

1 injection region was selected for surface-oriented particles grouped by OMR bins as representative of medium frequency of a medium proportion in the Bay Delta: the *Western Delta Region*. The following narrative is percent of particles injected in the *Western Delta Region* with a fate at *Entrained at Exports*.

- Under OMR bin -5,500 conditions, mean particle percentage ranged from 3% less (Alternative 2 without TUCP without VA, 14%) to 74% less (Alternative 1, 4%) compared with the No Action Alternative.
- Under OMR bin -5,000 conditions, mean particle percentage ranged from 48% greater (Alternative 1, 3%) to 74% less (Alternative 3, 0%) compared with the No Action Alternative.
- Under OMR bin -3,500 conditions, mean particle percentage ranged from 177% greater (Alternative 1, 2%) to 13% less (Alternative 2 with TUCP without VA, 1%) compared with the No Action Alternative.
- Under OMR bin -2,000 conditions, mean particle percentage ranged from 12% greater (Alternative 2 with TUCP without VA, 1%) to 65% less (Alternative 2 without TUCP Delta VA and Alternative 3, 0%) compared with the No Action Alternative.

I.8.4.3 Tables

I.8.4.3.1 Neutrally Buoyant, Inflow Bins [BA, Table I.8-2 through Table I.8-10]

Table I.8-2. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 0% | 3% | 4% | 0% | 0% | 0% | 0% |
| West of Chipps | lomed | 2% | 8% | 13% | 1% | 1% | 2% | 2% |
| West of Chipps | lohi | 17% | 64% | 59% | 11% | 11% | 15% | 16% |
| West of Chipps | medlo | 0% | 17% | 25% | 0% | 0% | 0% | 0% |
| West of Chipps | medmed | 3% | 32% | 38% | 1% | 2% | 6% | 6% |
| West of Chipps | medhi | 33% | 80% | 79% | 20% | 21% | 29% | 27% |
| West of Chipps | hilo | 1% | 26% | N/A | 0% | 0% | N/A | N/A |
| West of Chipps | himed | 7% | 67% | 53% | 4% | 4% | 12% | 13% |
| West of Chipps | hihi | 50% | 96% | 95% | 44% | 43% | 50% | 50% |
| Entrained at Exports | lolo | 61% | 0% | 1% | 62% | 65% | 67% | 68% |
| Entrained at Exports | lomed | 70% | 0% | 0% | 70% | 71% | 68% | 68% |
| Entrained at Exports | lohi | 63% | 0% | 0% | 71% | 70% | 68% | 68% |
| Entrained at Exports | medlo | 86% | 0% | 0% | 84% | 84% | 85% | 83% |
| Entrained at Exports | medmed | 77% | 0% | 0% | 80% | 80% | 69% | 69% |
| Entrained at Exports | medhi | 53% | 0% | 0% | 66% | 66% | 59% | 60% |
| Entrained at Exports | hilo | 89% | 0% | N/A | 90% | 90% | N/A | N/A |
| Entrained at Exports | himed | 80% | 0% | 0% | 82% | 82% | 70% | 70% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Entrained at Exports | hihi | 45% | 0% | 0% | 52% | 52% | 45% | 46% |
| Remaining in Delta | lolo | 39% | 97% | 96% | 38% | 35% | 32% | 31% |
| Remaining in Delta | lomed | 28% | 92% | 87% | 29% | 29% | 30% | 30% |
| Remaining in Delta | lohi | 20% | 36% | 41% | 17% | 18% | 17% | 15% |
| Remaining in Delta | medlo | 13% | 82% | 75% | 16% | 16% | 15% | 16% |
| Remaining in Delta | medmed | 19% | 68% | 62% | 18% | 19% | 25% | 25% |
| Remaining in Delta | medhi | 14% | 20% | 21% | 13% | 13% | 12% | 13% |
| Remaining in Delta | hilo | 10% | 74% | N/A | 10% | 10% | N/A | N/A |
| Remaining in Delta | himed | 13% | 33% | 47% | 13% | 13% | 17% | 17% |
| Remaining in Delta | hihi | 5% | 4% | 5% | 5% | 5% | 5% | 5% |
| Crossed SJR to South Delta | lolo | 54% | 21% | 25% | 55% | 56% | 58% | 58% |
| Crossed SJR to South Delta | lomed | 55% | 14% | 15% | 55% | 55% | 54% | 54% |
| Crossed SJR to South Delta | lohi | 46% | -16% | -11% | 53% | 52% | 49% | 49% |
| Crossed SJR to South Delta | medlo | 67% | 11% | 8% | 65% | 65% | 66% | 65% |
| Crossed SJR to South Delta | medmed | 57% | 1% | -1% | 59% | 59% | 53% | 53% |
| Crossed SJR to South Delta | medhi | 33% | -20% | -17% | 46% | 45% | 38% | 39% |
| Crossed SJR to South Delta | hilo | 58% | 4% | N/A | 59% | 59% | N/A | N/A |
| Crossed SJR to South Delta | himed | 55% | -13% | -6% | 57% | 57% | 48% | 48% |
| Crossed SJR to South Delta | hihi | 21% | -26% | -25% | 27% | 27% | 21% | 21% |

Table I.8-3. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 7% | 22% | 22% | 6% | 7% | 7% | 7% |
| West of Chipps | lomed | 9% | 24% | 33% | 8% | 8% | 10% | 10% |
| West of Chipps | lohi | 14% | 67% | 65% | 10% | 11% | 13% | 13% |
| West of Chipps | medlo | 5% | 44% | 51% | 5% | 6% | 6% | 6% |
| West of Chipps | medmed | 10% | 51% | 57% | 9% | 9% | 13% | 14% |
| West of Chipps | medhi | 25% | 80% | 80% | 15% | 15% | 22% | 21% |
| West of Chipps | hilo | 9% | 59% | #N/A | 10% | 10% | #N/A | #N/A |
| West of Chipps | himed | 13% | 73% | 66% | 12% | 12% | 16% | 16% |
| West of Chipps | hihi | 35% | 96% | 95% | 31% | 30% | 35% | 35% |
| Entrained at Exports | lolo | 75% | 0% | 1% | 77% | 78% | 78% | 78% |
| Entrained at Exports | lomed | 79% | 0% | 0% | 79% | 80% | 78% | 78% |
| Entrained at Exports | lohi | 77% | 0% | 0% | 82% | 81% | 78% | 78% |
| Entrained at Exports | medlo | 88% | 0% | 0% | 87% | 87% | 87% | 86% |
| Entrained at Exports | medmed | 83% | 0% | 0% | 84% | 84% | 77% | 77% |
| Entrained at Exports | medhi | 63% | 0% | 0% | 79% | 79% | 70% | 71% |
| Entrained at Exports | hilo | 90% | 0% | #N/A | 89% | 89% | #N/A | #N/A |
| Entrained at Exports | himed | 83% | 0% | 0% | 85% | 85% | 79% | 79% |
| Entrained at Exports | hihi | 59% | 0% | 0% | 65% | 65% | 60% | 60% |
| Remaining in Delta | lolo | 18% | 78% | 77% | 17% | 15% | 15% | 15% |
| Remaining in Delta | lomed | 13% | 76% | 67% | 13% | 12% | 12% | 12% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 10% | 33% | 35% | 8% | 8% | 9% | 9% |
| Remaining in Delta | medlo | 7% | 56% | 49% | 8% | 7% | 8% | 8% |
| Remaining in Delta | medmed | 7% | 49% | 43% | 7% | 7% | 9% | 9% |
| Remaining in Delta | medhi | 12% | 20% | 20% | 6% | 6% | 8% | 8% |
| Remaining in Delta | hilo | 1% | 41% | #N/A | 1% | 1% | #N/A | #N/A |
| Remaining in Delta | himed | 4% | 27% | 33% | 3% | 3% | 5% | 5% |
| Remaining in Delta | hihi | 6% | 4% | 5% | 4% | 4% | 5% | 5% |
| Crossed SJR to South Delta | lolo | -13% | -50% | -47% | -12% | -12% | -12% | -12% |
| Crossed SJR to South Delta | lomed | -13% | -61% | -60% | -12% | -12% | -14% | -14% |
| Crossed SJR to South Delta | lohi | -16% | -88% | -83% | -12% | -13% | -16% | -16% |
| Crossed SJR to South Delta | medlo | -7% | -66% | -69% | -8% | -8% | -8% | -8% |
| Crossed SJR to South Delta | medmed | -12% | -74% | -75% | -11% | -11% | -16% | -16% |
| Crossed SJR to South Delta | medhi | -27% | -92% | -89% | -17% | -17% | -24% | -23% |
| Crossed SJR to South Delta | hilo | -10% | -77% | #N/A | -10% | -10% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | -13% | -84% | -80% | -12% | -12% | -17% | -17% |
| Crossed SJR to South Delta | hihi | -36% | -98% | -97% | -31% | -31% | -36% | -36% |

Table I.8-4. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 0% | 5% | 5% | 0% | 0% | 0% | 0% |
| West of Chipps | lomed | 0% | 8% | 13% | 0% | 0% | 0% | 0% |
| West of Chipps | lohi | 0% | 54% | 49% | 0% | 0% | 1% | 1% |
| West of Chipps | medlo | 0% | 22% | 29% | 0% | 0% | 0% | 0% |
| West of Chipps | medmed | 0% | 30% | 35% | 0% | 0% | 0% | 0% |
| West of Chipps | medhi | 2% | 68% | 68% | 1% | 1% | 2% | 2% |
| West of Chipps | hilo | 0% | 38% | #N/A | 0% | 0% | #N/A | #N/A |
| West of Chipps | himed | 0% | 56% | 47% | 0% | 0% | 0% | 0% |
| West of Chipps | hihi | 6% | 92% | 89% | 5% | 5% | 6% | 6% |
| Entrained at Exports | lolo | 98% | 1% | 3% | 98% | 98% | 98% | 98% |
| Entrained at Exports | lomed | 100% | 0% | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | lohi | 100% | 0% | 0% | 100% | 100% | 98% | 98% |
| Entrained at Exports | medlo | 99% | 1% | 0% | 98% | 99% | 98% | 99% |
| Entrained at Exports | medmed | 100% | 0% | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | medhi | 95% | 0% | 0% | 99% | 99% | 96% | 96% |
| Entrained at Exports | hilo | 100% | 0% | #N/A | 100% | 100% | #N/A | #N/A |
| Entrained at Exports | himed | 100% | 0% | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | hihi | 94% | 0% | 0% | 94% | 94% | 93% | 93% |
| Remaining in Delta | lolo | 2% | 94% | 92% | 2% | 2% | 2% | 2% |
| Remaining in Delta | lomed | 0% | 92% | 87% | 0% | 0% | 0% | 0% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 0% | 46% | 51% | 0% | 0% | 1% | 1% |
| Remaining in Delta | medlo | 1% | 77% | 71% | 2% | 1% | 2% | 1% |
| Remaining in Delta | medmed | 0% | 70% | 65% | 0% | 0% | 0% | 0% |
| Remaining in Delta | medhi | 2% | 32% | 32% | 0% | 0% | 2% | 2% |
| Remaining in Delta | hilo | 0% | 62% | #N/A | 0% | 0% | #N/A | #N/A |
| Remaining in Delta | himed | 0% | 44% | 53% | 0% | 0% | 0% | 0% |
| Remaining in Delta | hihi | 1% | 8% | 11% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | lolo | 0% | -22% | -20% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lomed | 0% | -38% | -36% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lohi | 0% | -79% | -70% | 0% | 0% | -1% | -1% |
| Crossed SJR to South Delta | medlo | 0% | -42% | -47% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medmed | 0% | -55% | -57% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medhi | -3% | -83% | -80% | -1% | -1% | -3% | -2% |
| Crossed SJR to South Delta | hilo | 0% | -59% | #N/A | 0% | 0% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 0% | -71% | -64% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | -6% | -94% | -93% | -6% | -6% | -6% | -6% |

Table I.8-5. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 30% | 49% | 48% | 28% | 31% | 33% | 34% |
| West of Chipps | lomed | 40% | 51% | 65% | 36% | 37% | 43% | 44% |
| West of Chipps | lohi | 65% | 89% | 90% | 57% | 57% | 61% | 62% |
| West of Chipps | medlo | 32% | 79% | 86% | 34% | 35% | 35% | 37% |
| West of Chipps | medmed | 53% | 86% | 91% | 48% | 49% | 59% | 60% |
| West of Chipps | medhi | 81% | 97% | 96% | 72% | 72% | 77% | 76% |
| West of Chipps | hilo | 62% | 93% | #N/A | 69% | 68% | #N/A | #N/A |
| West of Chipps | himed | 73% | 97% | 96% | 69% | 69% | 78% | 78% |
| West of Chipps | hihi | 93% | 100% | 100% | 91% | 91% | 93% | 93% |
| Entrained at Exports | lolo | 22% | 0% | 0% | 24% | 25% | 27% | 28% |
| Entrained at Exports | lomed | 25% | 0% | 0% | 25% | 25% | 23% | 23% |
| Entrained at Exports | lohi | 17% | 0% | 0% | 22% | 21% | 21% | 21% |
| Entrained at Exports | medlo | 47% | 0% | 0% | 41% | 41% | 43% | 40% |
| Entrained at Exports | medmed | 27% | 0% | 0% | 29% | 28% | 22% | 21% |
| Entrained at Exports | medhi | 10% | 0% | 0% | 16% | 16% | 14% | 14% |
| Entrained at Exports | hilo | 31% | 0% | #N/A | 27% | 27% | #N/A | #N/A |
| Entrained at Exports | himed | 21% | 0% | 0% | 22% | 22% | 15% | 15% |
| Entrained at Exports | hihi | 5% | 0% | 0% | 7% | 7% | 5% | 5% |
| Remaining in Delta | lolo | 48% | 51% | 52% | 48% | 44% | 40% | 38% |
| Remaining in Delta | lomed | 35% | 49% | 35% | 40% | 38% | 34% | 33% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 18% | 11% | 10% | 21% | 21% | 18% | 17% |
| Remaining in Delta | medlo | 21% | 21% | 14% | 25% | 24% | 22% | 23% |
| Remaining in Delta | medmed | 20% | 14% | 9% | 23% | 23% | 19% | 19% |
| Remaining in Delta | medhi | 9% | 3% | 4% | 12% | 12% | 9% | 10% |
| Remaining in Delta | hilo | 7% | 7% | #N/A | 5% | 5% | #N/A | #N/A |
| Remaining in Delta | himed | 7% | 3% | 4% | 9% | 8% | 7% | 7% |
| Remaining in Delta | hihi | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | lolo | 43% | 16% | 18% | 44% | 44% | 45% | 45% |
| Crossed SJR to South Delta | lomed | 40% | 13% | 11% | 41% | 41% | 38% | 38% |
| Crossed SJR to South Delta | lohi | 24% | 2% | 2% | 30% | 29% | 28% | 28% |
| Crossed SJR to South Delta | medlo | 57% | 7% | 5% | 51% | 51% | 53% | 51% |
| Crossed SJR to South Delta | medmed | 37% | 4% | 3% | 39% | 39% | 31% | 30% |
| Crossed SJR to South Delta | medhi | 14% | 1% | 1% | 21% | 21% | 18% | 19% |
| Crossed SJR to South Delta | hilo | 35% | 2% | #N/A | 29% | 30% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 24% | 1% | 1% | 27% | 27% | 19% | 19% |
| Crossed SJR to South Delta | hihi | 6% | 0% | 0% | 8% | 8% | 6% | 6% |

Table I.8-6. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 51% | 68% | 65% | 51% | 56% | 57% | 58% |
| West of Chipps | lomed | 68% | 66% | 79% | 67% | 69% | 71% | 72% |
| West of Chipps | lohi | 82% | 88% | 91% | 80% | 80% | 81% | 80% |
| West of Chipps | medlo | 62% | 93% | 95% | 65% | 66% | 64% | 67% |
| West of Chipps | medmed | 84% | 95% | 97% | 83% | 84% | 86% | 87% |
| West of Chipps | medhi | 94% | 97% | 97% | 92% | 92% | 93% | 92% |
| West of Chipps | hilo | 95% | 98% | #N/A | 96% | 96% | #N/A | #N/A |
| West of Chipps | himed | 96% | 99% | 99% | 96% | 96% | 97% | 97% |
| West of Chipps | hihi | 99% | 100% | 100% | 99% | 99% | 99% | 99% |
| Entrained at Exports | lolo | 7% | 0% | 0% | 7% | 7% | 9% | 9% |
| Entrained at Exports | lomed | 7% | 0% | 0% | 6% | 6% | 6% | 6% |
| Entrained at Exports | lohi | 4% | 0% | 0% | 5% | 5% | 5% | 5% |
| Entrained at Exports | medlo | 16% | 0% | 0% | 11% | 11% | 14% | 12% |
| Entrained at Exports | medmed | 5% | 0% | 0% | 5% | 5% | 4% | 4% |
| Entrained at Exports | medhi | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Entrained at Exports | hilo | 3% | 0% | #N/A | 2% | 2% | #N/A | #N/A |
| Entrained at Exports | himed | 2% | 0% | 0% | 2% | 2% | 1% | 1% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 42% | 32% | 35% | 42% | 37% | 35% | 33% |
| Remaining in Delta | lomed | 25% | 34% | 21% | 28% | 25% | 22% | 22% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 14% | 12% | 9% | 16% | 16% | 14% | 15% |
| Remaining in Delta | medlo | 23% | 7% | 5% | 24% | 23% | 22% | 21% |
| Remaining in Delta | medmed | 10% | 5% | 3% | 12% | 12% | 9% | 9% |
| Remaining in Delta | medhi | 5% | 3% | 3% | 6% | 6% | 5% | 6% |
| Remaining in Delta | hilo | 2% | 2% | #N/A | 1% | 2% | #N/A | #N/A |
| Remaining in Delta | himed | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Remaining in Delta | hihi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | lolo | 17% | 7% | 8% | 16% | 15% | 18% | 18% |
| Crossed SJR to South Delta | lomed | 13% | 6% | 4% | 12% | 12% | 12% | 12% |
| Crossed SJR to South Delta | lohi | 7% | 1% | 1% | 8% | 7% | 8% | 8% |
| Crossed SJR to South Delta | medlo | 22% | 1% | 1% | 17% | 16% | 20% | 18% |
| Crossed SJR to South Delta | medmed | 8% | 1% | 0% | 8% | 8% | 7% | 7% |
| Crossed SJR to South Delta | medhi | 2% | 0% | 0% | 3% | 3% | 3% | 3% |
| Crossed SJR to South Delta | hilo | 4% | 0% | #N/A | 3% | 3% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 2% | 0% | 0% | 2% | 3% | 2% | 2% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 1% | 1% | 0% | 0% |

Table I.8-7. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 10% | 19% | 19% | 9% | 11% | 13% | 13% |
| West of Chipps | lomed | 17% | 20% | 34% | 13% | 14% | 19% | 20% |
| West of Chipps | lohi | 44% | 65% | 69% | 35% | 35% | 40% | 43% |
| West of Chipps | medlo | 13% | 50% | 63% | 14% | 14% | 15% | 16% |
| West of Chipps | medmed | 28% | 62% | 76% | 23% | 24% | 36% | 37% |
| West of Chipps | medhi | 67% | 87% | 90% | 54% | 55% | 63% | 61% |
| West of Chipps | hilo | 41% | 72% | #N/A | 49% | 49% | #N/A | #N/A |
| West of Chipps | himed | 54% | 90% | 88% | 48% | 49% | 61% | 62% |
| West of Chipps | hihi | 88% | 98% | 98% | 84% | 84% | 88% | 88% |
| Entrained at Exports | lolo | 24% | 0% | 0% | 27% | 29% | 32% | 34% |
| Entrained at Exports | lomed | 30% | 0% | 0% | 28% | 28% | 27% | 27% |
| Entrained at Exports | lohi | 23% | 0% | 0% | 30% | 29% | 29% | 29% |
| Entrained at Exports | medlo | 62% | 0% | 0% | 55% | 55% | 57% | 53% |
| Entrained at Exports | medmed | 36% | 0% | 0% | 37% | 37% | 28% | 27% |
| Entrained at Exports | medhi | 15% | 0% | 0% | 23% | 22% | 19% | 20% |
| Entrained at Exports | hilo | 43% | 0% | #N/A | 40% | 41% | #N/A | #N/A |
| Entrained at Exports | himed | 31% | 0% | 0% | 33% | 33% | 22% | 22% |
| Entrained at Exports | hihi | 8% | 0% | 0% | 11% | 11% | 8% | 8% |
| Remaining in Delta | lolo | 66% | 81% | 81% | 63% | 61% | 56% | 53% |
| Remaining in Delta | lomed | 53% | 80% | 66% | 59% | 58% | 54% | 53% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 33% | 35% | 31% | 35% | 36% | 31% | 28% |
| Remaining in Delta | medlo | 25% | 50% | 37% | 31% | 31% | 28% | 32% |
| Remaining in Delta | medmed | 36% | 38% | 24% | 39% | 39% | 36% | 36% |
| Remaining in Delta | medhi | 18% | 13% | 10% | 24% | 23% | 18% | 19% |
| Remaining in Delta | hilo | 15% | 28% | #N/A | 11% | 11% | #N/A | #N/A |
| Remaining in Delta | himed | 16% | 10% | 12% | 19% | 19% | 16% | 16% |
| Remaining in Delta | hihi | 4% | 2% | 2% | 5% | 5% | 4% | 4% |
| Crossed SJR to South Delta | lolo | 52% | 23% | 21% | 53% | 54% | 55% | 56% |
| Crossed SJR to South Delta | lomed | 53% | 21% | 19% | 54% | 54% | 51% | 51% |
| Crossed SJR to South Delta | lohi | 36% | 6% | 6% | 43% | 42% | 41% | 40% |
| Crossed SJR to South Delta | medlo | 74% | 15% | 12% | 69% | 69% | 70% | 68% |
| Crossed SJR to South Delta | medmed | 53% | 10% | 7% | 56% | 55% | 44% | 44% |
| Crossed SJR to South Delta | medhi | 22% | 2% | 2% | 32% | 31% | 27% | 28% |
| Crossed SJR to South Delta | hilo | 52% | 8% | #N/A | 46% | 46% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 39% | 3% | 4% | 42% | 42% | 31% | 31% |
| Crossed SJR to South Delta | hihi | 10% | 0% | 0% | 13% | 13% | 10% | 10% |

Table I.8-8. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 24% | 32% | 31% | 23% | 25% | 27% | 27% |
| West of Chipps | lomed | 35% | 28% | 39% | 32% | 33% | 37% | 37% |
| West of Chipps | lohi | 41% | 42% | 47% | 37% | 37% | 40% | 39% |
| West of Chipps | medlo | 31% | 54% | 62% | 32% | 33% | 33% | 35% |
| West of Chipps | medmed | 50% | 55% | 61% | 46% | 46% | 51% | 51% |
| West of Chipps | medhi | 53% | 55% | 57% | 49% | 50% | 53% | 52% |
| West of Chipps | hilo | 70% | 69% | #N/A | 66% | 66% | #N/A | #N/A |
| West of Chipps | himed | 68% | 68% | 68% | 63% | 63% | 68% | 68% |
| West of Chipps | hihi | 68% | 68% | 69% | 62% | 62% | 68% | 68% |
| Entrained at Exports | lolo | 2% | 0% | 0% | 2% | 2% | 3% | 4% |
| Entrained at Exports | lomed | 3% | 0% | 0% | 2% | 2% | 2% | 3% |
| Entrained at Exports | lohi | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Entrained at Exports | medlo | 6% | 0% | 0% | 4% | 4% | 5% | 4% |
| Entrained at Exports | medmed | 2% | 0% | 0% | 1% | 1% | 2% | 1% |
| Entrained at Exports | medhi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Entrained at Exports | hilo | 1% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Entrained at Exports | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 74% | 68% | 69% | 75% | 73% | 70% | 69% |
| Remaining in Delta | lomed | 62% | 72% | 61% | 66% | 65% | 61% | 60% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 58% | 58% | 53% | 61% | 61% | 58% | 59% |
| Remaining in Delta | medlo | 63% | 46% | 38% | 64% | 64% | 62% | 61% |
| Remaining in Delta | medmed | 48% | 45% | 39% | 52% | 52% | 47% | 47% |
| Remaining in Delta | medhi | 46% | 45% | 43% | 50% | 50% | 46% | 47% |
| Remaining in Delta | hilo | 30% | 31% | #N/A | 34% | 34% | #N/A | #N/A |
| Remaining in Delta | himed | 32% | 32% | 32% | 37% | 37% | 32% | 31% |
| Remaining in Delta | hihi | 32% | 32% | 31% | 38% | 38% | 32% | 32% |
| Crossed SJR to South Delta | lolo | 9% | 5% | 5% | 8% | 7% | 9% | 9% |
| Crossed SJR to South Delta | lomed | 7% | 4% | 3% | 6% | 6% | 7% | 7% |
| Crossed SJR to South Delta | lohi | 4% | 1% | 1% | 4% | 4% | 5% | 5% |
| Crossed SJR to South Delta | medlo | 11% | 1% | 1% | 7% | 7% | 10% | 8% |
| Crossed SJR to South Delta | medmed | 4% | 1% | 1% | 4% | 4% | 4% | 3% |
| Crossed SJR to South Delta | medhi | 1% | 0% | 0% | 2% | 1% | 2% | 2% |
| Crossed SJR to South Delta | hilo | 1% | 0% | #N/A | 1% | 1% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Table I.8-9. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 86% | 93% | 93% | 86% | 89% | 89% | 90% |
| West of Chipps | lomed | 93% | 93% | 97% | 93% | 93% | 94% | 94% |
| West of Chipps | lohi | 98% | 99% | 99% | 97% | 97% | 97% | 97% |
| West of Chipps | medlo | 91% | 99% | 99% | 92% | 92% | 92% | 93% |
| West of Chipps | medmed | 97% | 99% | 99% | 97% | 97% | 98% | 98% |
| West of Chipps | medhi | 99% | 99% | 99% | 99% | 99% | 99% | 99% |
| West of Chipps | hilo | 99% | 100% | #N/A | 100% | 100% | #N/A | #N/A |
| West of Chipps | himed | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| West of Chipps | hihi | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Entrained at Exports | lolo | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Entrained at Exports | lomed | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Entrained at Exports | lohi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medlo | 2% | 0% | 0% | 1% | 1% | 2% | 1% |
| Entrained at Exports | medmed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hilo | 0% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Entrained at Exports | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 13% | 7% | 7% | 13% | 10% | 10% | 9% |
| Remaining in Delta | lomed | 6% | 7% | 3% | 7% | 6% | 5% | 5% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 2% | 1% | 1% | 3% | 3% | 2% | 2% |
| Remaining in Delta | medlo | 7% | 1% | 1% | 7% | 7% | 6% | 5% |
| Remaining in Delta | medmed | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Remaining in Delta | medhi | 1% | 1% | 1% | 1% | 1% | 1% | 1% |
| Remaining in Delta | hilo | 0% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Remaining in Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lolo | 3% | 1% | 1% | 2% | 2% | 3% | 3% |
| Crossed SJR to South Delta | lomed | 2% | 1% | 0% | 1% | 1% | 2% | 2% |
| Crossed SJR to South Delta | lohi | 0% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | medlo | 3% | 0% | 0% | 2% | 2% | 3% | 2% |
| Crossed SJR to South Delta | medmed | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hilo | 0% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Table I.8-10. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 67% | 60% | 58% | 64% | 61% | 65% | 65% |
| West of Chipps | lomed | 64% | 57% | 60% | 63% | 62% | 64% | 63% |
| West of Chipps | lohi | 63% | 66% | 67% | 61% | 61% | 62% | 63% |
| West of Chipps | medlo | 73% | 73% | 78% | 73% | 74% | 76% | 72% |
| West of Chipps | medmed | 73% | 76% | 82% | 71% | 71% | 74% | 74% |
| West of Chipps | medhi | 77% | 82% | 84% | 75% | 75% | 77% | 75% |
| West of Chipps | hilo | 93% | 92% | #N/A | 95% | 95% | #N/A | #N/A |
| West of Chipps | himed | 94% | 95% | 95% | 93% | 93% | 94% | 95% |
| West of Chipps | hihi | 97% | 98% | 98% | 97% | 97% | 97% | 97% |
| Entrained at Exports | lolo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | lomed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | lohi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medlo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medmed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hilo | 0% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Entrained at Exports | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 33% | 40% | 42% | 36% | 39% | 35% | 35% |
| Remaining in Delta | lomed | 36% | 43% | 40% | 37% | 38% | 36% | 37% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 37% | 34% | 33% | 39% | 39% | 38% | 37% |
| Remaining in Delta | medlo | 27% | 27% | 22% | 27% | 26% | 24% | 28% |
| Remaining in Delta | medmed | 27% | 24% | 18% | 29% | 29% | 26% | 26% |
| Remaining in Delta | medhi | 23% | 18% | 16% | 25% | 25% | 23% | 25% |
| Remaining in Delta | hilo | 7% | 8% | #N/A | 5% | 5% | #N/A | #N/A |
| Remaining in Delta | himed | 6% | 5% | 5% | 7% | 7% | 6% | 5% |
| Remaining in Delta | hihi | 3% | 2% | 2% | 3% | 3% | 3% | 3% |
| Crossed SJR to South Delta | lolo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lomed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lohi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medlo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medmed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hilo | 0% | 0% | #N/A | 0% | 0% | #N/A | #N/A |
| Crossed SJR to South Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

1.8.4.3.2 Surface Oriented, Inflow Bins [BA, Table I.8-11 through Table I.8-19]

Table I.8-11. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 0% | 17% | 20% | 1% | 1% | 1% | 1% |
| West of Chipps | lomed | 1% | 35% | 37% | 1% | 1% | 2% | 2% |
| West of Chipps | lohi | 1% | #N/A | 61% | 3% | 4% | 2% | 2% |
| West of Chipps | medlo | 0% | 33% | 30% | 1% | 1% | 1% | 1% |
| West of Chipps | medmed | 2% | 51% | 46% | 2% | 2% | 5% | 5% |
| West of Chipps | medhi | 13% | 92% | 90% | 12% | 12% | 19% | 19% |
| West of Chipps | hilo | 2% | 45% | 43% | 2% | 2% | 2% | 2% |
| West of Chipps | himed | 6% | 76% | 69% | 6% | 6% | 8% | 8% |
| West of Chipps | hihi | 39% | 98% | 96% | 37% | 38% | 40% | 39% |
| Entrained at Exports | lolo | 78% | 0% | 0% | 78% | 77% | 77% | 77% |
| Entrained at Exports | lomed | 84% | 0% | 0% | 80% | 80% | 71% | 71% |
| Entrained at Exports | lohi | 86% | #N/A | 0% | 80% | 76% | 85% | 84% |
| Entrained at Exports | medlo | 90% | 0% | 0% | 88% | 88% | 88% | 87% |
| Entrained at Exports | medmed | 88% | 0% | 0% | 88% | 87% | 78% | 78% |
| Entrained at Exports | medhi | 79% | 0% | 0% | 81% | 81% | 71% | 71% |
| Entrained at Exports | hilo | 91% | 0% | 0% | 91% | 91% | 91% | 91% |
| Entrained at Exports | himed | 89% | 0% | 0% | 89% | 89% | 85% | 85% |
| Entrained at Exports | hihi | 59% | 0% | 0% | 61% | 61% | 58% | 58% |
| Remaining in Delta | lolo | 22% | 83% | 80% | 21% | 23% | 22% | 22% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lomed | 16% | 65% | 63% | 20% | 20% | 27% | 27% |
| Remaining in Delta | lohi | 12% | #N/A | 39% | 17% | 19% | 13% | 14% |
| Remaining in Delta | medlo | 10% | 67% | 70% | 12% | 12% | 12% | 12% |
| Remaining in Delta | medmed | 10% | 49% | 54% | 10% | 11% | 17% | 17% |
| Remaining in Delta | medhi | 8% | 8% | 10% | 7% | 7% | 10% | 10% |
| Remaining in Delta | hilo | 7% | 54% | 56% | 7% | 7% | 7% | 7% |
| Remaining in Delta | himed | 5% | 23% | 31% | 5% | 5% | 7% | 7% |
| Remaining in Delta | hihi | 2% | 2% | 4% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | lolo | 51% | 10% | 6% | 51% | 50% | 50% | 50% |
| Crossed SJR to South Delta | lomed | 56% | -6% | -5% | 55% | 55% | 51% | 51% |
| Crossed SJR to South Delta | lohi | 61% | #N/A | -15% | 57% | 54% | 60% | 60% |
| Crossed SJR to South Delta | medlo | 54% | 3% | 4% | 54% | 54% | 54% | 54% |
| Crossed SJR to South Delta | medmed | 59% | -9% | -5% | 60% | 59% | 54% | 54% |
| Crossed SJR to South Delta | medhi | 55% | -24% | -23% | 56% | 56% | 48% | 48% |
| Crossed SJR to South Delta | hilo | 56% | -1% | 1% | 56% | 56% | 56% | 56% |
| Crossed SJR to South Delta | himed | 57% | -17% | -14% | 57% | 57% | 55% | 55% |
| Crossed SJR to South Delta | hihi | 32% | -26% | -25% | 33% | 33% | 31% | 31% |

Table I.8-12. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 6% | 47% | 49% | 6% | 6% | 6% | 6% |
| West of Chipps | lomed | 5% | 55% | 58% | 6% | 7% | 10% | 10% |
| West of Chipps | lohi | 4% | #N/A | 72% | 5% | 6% | 4% | 4% |
| West of Chipps | medlo | 5% | 59% | 57% | 5% | 5% | 5% | 5% |
| West of Chipps | medmed | 7% | 67% | 64% | 7% | 8% | 10% | 11% |
| West of Chipps | medhi | 11% | 93% | 90% | 11% | 11% | 13% | 13% |
| West of Chipps | hilo | 8% | 65% | 64% | 8% | 8% | 8% | 8% |
| West of Chipps | himed | 10% | 80% | 76% | 10% | 10% | 11% | 11% |
| West of Chipps | hihi | 26% | 97% | 96% | 26% | 26% | 27% | 27% |
| Entrained at Exports | lolo | 86% | 0% | 0% | 87% | 86% | 86% | 86% |
| Entrained at Exports | lomed | 89% | 0% | 0% | 87% | 85% | 82% | 82% |
| Entrained at Exports | lohi | 92% | #N/A | 0% | 88% | 86% | 91% | 91% |
| Entrained at Exports | medlo | 92% | 0% | 0% | 91% | 91% | 91% | 91% |
| Entrained at Exports | medmed | 90% | 0% | 0% | 90% | 89% | 85% | 85% |
| Entrained at Exports | medhi | 87% | 0% | 0% | 88% | 88% | 84% | 84% |
| Entrained at Exports | hilo | 90% | 0% | 0% | 89% | 90% | 89% | 89% |
| Entrained at Exports | himed | 88% | 0% | 0% | 88% | 88% | 87% | 87% |
| Entrained at Exports | hihi | 72% | 0% | 0% | 73% | 72% | 71% | 71% |
| Remaining in Delta | lolo | 9% | 53% | 51% | 8% | 8% | 8% | 8% |
| Remaining in Delta | lomed | 5% | 45% | 42% | 7% | 8% | 8% | 8% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 5% | #N/A | 28% | 7% | 8% | 5% | 5% |
| Remaining in Delta | medlo | 3% | 41% | 43% | 3% | 3% | 3% | 3% |
| Remaining in Delta | medmed | 3% | 33% | 36% | 3% | 3% | 4% | 4% |
| Remaining in Delta | medhi | 2% | 7% | 10% | 2% | 2% | 3% | 3% |
| Remaining in Delta | hilo | 2% | 34% | 36% | 2% | 2% | 3% | 3% |
| Remaining in Delta | himed | 2% | 20% | 24% | 2% | 2% | 2% | 2% |
| Remaining in Delta | hihi | 2% | 2% | 4% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | lolo | -9% | -66% | -71% | -9% | -10% | -9% | -10% |
| Crossed SJR to South Delta | lomed | -8% | -80% | -80% | -9% | -11% | -14% | -14% |
| Crossed SJR to South Delta | lohi | -6% | #N/A | -88% | -10% | -11% | -6% | -6% |
| Crossed SJR to South Delta | medlo | -6% | -74% | -73% | -6% | -6% | -6% | -6% |
| Crossed SJR to South Delta | medmed | -8% | -82% | -80% | -8% | -9% | -12% | -12% |
| Crossed SJR to South Delta | medhi | -11% | -97% | -95% | -11% | -11% | -14% | -14% |
| Crossed SJR to South Delta | hilo | -8% | -76% | -75% | -8% | -8% | -8% | -8% |
| Crossed SJR to South Delta | himed | -10% | -88% | -85% | -11% | -11% | -12% | -12% |
| Crossed SJR to South Delta | hihi | -27% | -98% | -98% | -26% | -26% | -27% | -27% |

Table I.8-13. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 0% | 20% | 25% | 0% | 0% | 0% | 0% |
| West of Chipps | lomed | 0% | 37% | 39% | 0% | 0% | 0% | 0% |
| West of Chipps | lohi | 0% | #N/A | 60% | 0% | 0% | 0% | 0% |
| West of Chipps | medlo | 0% | 34% | 31% | 0% | 0% | 0% | 0% |
| West of Chipps | medmed | 0% | 48% | 43% | 0% | 0% | 0% | 0% |
| West of Chipps | medhi | 0% | 87% | 83% | 0% | 0% | 0% | 0% |
| West of Chipps | hilo | 0% | 41% | 39% | 0% | 0% | 0% | 0% |
| West of Chipps | himed | 0% | 65% | 58% | 0% | 0% | 0% | 0% |
| West of Chipps | hihi | 5% | 94% | 92% | 4% | 4% | 4% | 4% |
| Entrained at Exports | lolo | 100% | 1% | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | lomed | 100% | 4% | 1% | 100% | 100% | 100% | 100% |
| Entrained at Exports | lohi | 100% | #N/A | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | medlo | 100% | 1% | 1% | 100% | 100% | 100% | 100% |
| Entrained at Exports | medmed | 100% | 0% | 1% | 100% | 100% | 100% | 100% |
| Entrained at Exports | medhi | 100% | 0% | 0% | 100% | 100% | 100% | 100% |
| Entrained at Exports | hilo | 100% | 1% | 1% | 100% | 100% | 100% | 100% |
| Entrained at Exports | himed | 100% | 2% | 2% | 100% | 100% | 100% | 100% |
| Entrained at Exports | hihi | 95% | 1% | 1% | 96% | 96% | 96% | 96% |
| Remaining in Delta | lolo | 0% | 79% | 74% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lomed | 0% | 59% | 60% | 0% | 0% | 0% | 0% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 0% | #N/A | 40% | 0% | 0% | 0% | 0% |
| Remaining in Delta | medlo | 0% | 65% | 68% | 0% | 0% | 0% | 0% |
| Remaining in Delta | medmed | 0% | 52% | 56% | 0% | 0% | 0% | 0% |
| Remaining in Delta | medhi | 0% | 13% | 17% | 0% | 0% | 0% | 0% |
| Remaining in Delta | hilo | 0% | 58% | 60% | 0% | 0% | 0% | 0% |
| Remaining in Delta | himed | 0% | 34% | 40% | 0% | 0% | 0% | 0% |
| Remaining in Delta | hihi | 0% | 6% | 8% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lolo | 0% | -38% | -47% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lomed | 0% | -65% | -64% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lohi | 0% | #N/A | -79% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medlo | 0% | -51% | -49% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medmed | 0% | -67% | -62% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medhi | 0% | -93% | -90% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hilo | 0% | -54% | -52% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | himed | 0% | -76% | -71% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | -5% | -95% | -94% | -4% | -4% | -4% | -4% |

Table I.8-14. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 27% | 77% | 80% | 27% | 29% | 27% | 27% |
| West of Chipps | lomed | 31% | 82% | 86% | 33% | 35% | 43% | 44% |
| West of Chipps | lohi | 25% | #N/A | 92% | 28% | 31% | 26% | 26% |
| West of Chipps | medlo | 33% | 90% | 89% | 33% | 34% | 34% | 33% |
| West of Chipps | medmed | 46% | 93% | 93% | 46% | 47% | 54% | 54% |
| West of Chipps | medhi | 67% | 99% | 99% | 67% | 67% | 72% | 73% |
| West of Chipps | hilo | 56% | 95% | 95% | 55% | 55% | 55% | 55% |
| West of Chipps | himed | 68% | 98% | 98% | 69% | 69% | 70% | 70% |
| West of Chipps | hihi | 89% | 100% | 100% | 88% | 88% | 89% | 89% |
| Entrained at Exports | lolo | 46% | 0% | 0% | 46% | 44% | 46% | 45% |
| Entrained at Exports | lomed | 43% | 0% | 0% | 38% | 38% | 29% | 29% |
| Entrained at Exports | lohi | 49% | #N/A | 0% | 36% | 31% | 48% | 47% |
| Entrained at Exports | medlo | 56% | 0% | 0% | 53% | 53% | 54% | 54% |
| Entrained at Exports | medmed | 42% | 0% | 0% | 41% | 40% | 33% | 33% |
| Entrained at Exports | medhi | 26% | 0% | 0% | 27% | 27% | 21% | 21% |
| Entrained at Exports | hilo | 39% | 0% | 0% | 39% | 39% | 39% | 40% |
| Entrained at Exports | himed | 28% | 0% | 0% | 27% | 27% | 25% | 25% |
| Entrained at Exports | hihi | 10% | 0% | 0% | 11% | 11% | 10% | 10% |
| Remaining in Delta | lolo | 27% | 23% | 20% | 26% | 27% | 27% | 28% |
| Remaining in Delta | lomed | 25% | 18% | 14% | 29% | 27% | 28% | 27% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 26% | #N/A | 8% | 36% | 37% | 27% | 27% |
| Remaining in Delta | medlo | 12% | 10% | 11% | 13% | 13% | 13% | 13% |
| Remaining in Delta | medmed | 13% | 7% | 7% | 13% | 13% | 14% | 13% |
| Remaining in Delta | medhi | 6% | 1% | 1% | 6% | 6% | 6% | 6% |
| Remaining in Delta | hilo | 5% | 5% | 5% | 6% | 6% | 6% | 6% |
| Remaining in Delta | himed | 4% | 2% | 2% | 4% | 4% | 4% | 4% |
| Remaining in Delta | hihi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | lolo | 57% | 8% | 6% | 57% | 55% | 57% | 56% |
| Crossed SJR to South Delta | lomed | 54% | 4% | 4% | 50% | 48% | 40% | 40% |
| Crossed SJR to South Delta | lohi | 60% | #N/A | 2% | 46% | 42% | 59% | 58% |
| Crossed SJR to South Delta | medlo | 61% | 4% | 4% | 60% | 59% | 60% | 60% |
| Crossed SJR to South Delta | medmed | 48% | 2% | 2% | 47% | 47% | 39% | 39% |
| Crossed SJR to South Delta | medhi | 30% | 0% | 0% | 30% | 30% | 25% | 25% |
| Crossed SJR to South Delta | hilo | 42% | 2% | 2% | 42% | 42% | 43% | 43% |
| Crossed SJR to South Delta | himed | 30% | 1% | 1% | 30% | 30% | 28% | 28% |
| Crossed SJR to South Delta | hihi | 11% | 0% | 0% | 11% | 11% | 10% | 11% |

Table I.8-15. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 58% | 90% | 91% | 59% | 60% | 58% | 58% |
| West of Chipps | lomed | 68% | 89% | 94% | 67% | 69% | 75% | 75% |
| West of Chipps | lohi | 50% | #N/A | 96% | 46% | 48% | 51% | 51% |
| West of Chipps | medlo | 76% | 97% | 97% | 76% | 76% | 77% | 76% |
| West of Chipps | medmed | 84% | 97% | 98% | 85% | 85% | 87% | 87% |
| West of Chipps | medhi | 94% | 99% | 99% | 94% | 93% | 94% | 94% |
| West of Chipps | hilo | 93% | 99% | 99% | 93% | 93% | 92% | 92% |
| West of Chipps | himed | 96% | 99% | 99% | 96% | 96% | 96% | 96% |
| West of Chipps | hihi | 99% | 100% | 100% | 99% | 99% | 99% | 99% |
| Entrained at Exports | lolo | 15% | 0% | 0% | 15% | 14% | 15% | 15% |
| Entrained at Exports | lomed | 11% | 0% | 0% | 9% | 9% | 7% | 7% |
| Entrained at Exports | lohi | 16% | #N/A | 0% | 12% | 10% | 15% | 15% |
| Entrained at Exports | medlo | 15% | 0% | 0% | 14% | 14% | 14% | 14% |
| Entrained at Exports | medmed | 8% | 0% | 0% | 8% | 8% | 7% | 7% |
| Entrained at Exports | medhi | 3% | 0% | 0% | 4% | 4% | 3% | 3% |
| Entrained at Exports | hilo | 5% | 0% | 0% | 5% | 5% | 5% | 5% |
| Entrained at Exports | himed | 3% | 0% | 0% | 3% | 3% | 2% | 3% |
| Entrained at Exports | hihi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Remaining in Delta | lolo | 27% | 10% | 9% | 26% | 26% | 27% | 27% |
| Remaining in Delta | lomed | 21% | 11% | 6% | 24% | 22% | 18% | 18% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 34% | #N/A | 4% | 42% | 42% | 34% | 34% |
| Remaining in Delta | medlo | 9% | 3% | 3% | 10% | 10% | 9% | 10% |
| Remaining in Delta | medmed | 7% | 3% | 2% | 7% | 7% | 7% | 7% |
| Remaining in Delta | medhi | 3% | 1% | 1% | 3% | 3% | 3% | 3% |
| Remaining in Delta | hilo | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Remaining in Delta | himed | 1% | 1% | 1% | 1% | 1% | 1% | 1% |
| Remaining in Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lolo | 22% | 2% | 2% | 21% | 21% | 22% | 21% |
| Crossed SJR to South Delta | lomed | 16% | 2% | 1% | 15% | 14% | 11% | 11% |
| Crossed SJR to South Delta | lohi | 26% | #N/A | 0% | 20% | 18% | 25% | 24% |
| Crossed SJR to South Delta | medlo | 17% | 1% | 1% | 17% | 17% | 17% | 17% |
| Crossed SJR to South Delta | medmed | 10% | 0% | 0% | 10% | 10% | 9% | 9% |
| Crossed SJR to South Delta | medhi | 4% | 0% | 0% | 4% | 4% | 3% | 3% |
| Crossed SJR to South Delta | hilo | 6% | 0% | 0% | 6% | 6% | 6% | 6% |
| Crossed SJR to South Delta | himed | 3% | 0% | 0% | 3% | 3% | 3% | 3% |
| Crossed SJR to South Delta | hihi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |

Table I.8-16. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 10% | 50% | 53% | 10% | 11% | 10% | 10% |
| West of Chipps | lomed | 13% | 57% | 66% | 13% | 16% | 21% | 22% |
| West of Chipps | lohi | 14% | #N/A | 79% | 16% | 19% | 13% | 14% |
| West of Chipps | medlo | 14% | 72% | 70% | 14% | 15% | 14% | 14% |
| West of Chipps | medmed | 25% | 80% | 80% | 25% | 26% | 34% | 34% |
| West of Chipps | medhi | 50% | 96% | 96% | 49% | 49% | 57% | 58% |
| West of Chipps | hilo | 34% | 83% | 82% | 33% | 34% | 33% | 32% |
| West of Chipps | himed | 51% | 94% | 93% | 51% | 51% | 54% | 54% |
| West of Chipps | hihi | 82% | 99% | 99% | 81% | 81% | 83% | 83% |
| Entrained at Exports | lolo | 45% | 0% | 0% | 45% | 44% | 45% | 44% |
| Entrained at Exports | lomed | 47% | 0% | 0% | 41% | 41% | 31% | 31% |
| Entrained at Exports | lohi | 53% | #N/A | 0% | 43% | 38% | 51% | 48% |
| Entrained at Exports | medlo | 65% | 0% | 0% | 61% | 61% | 61% | 61% |
| Entrained at Exports | medmed | 52% | 0% | 0% | 51% | 50% | 39% | 39% |
| Entrained at Exports | medhi | 36% | 0% | 0% | 37% | 37% | 28% | 28% |
| Entrained at Exports | hilo | 54% | 0% | 0% | 54% | 54% | 54% | 55% |
| Entrained at Exports | himed | 41% | 0% | 0% | 40% | 40% | 37% | 37% |
| Entrained at Exports | hihi | 16% | 0% | 0% | 16% | 16% | 15% | 15% |
| Remaining in Delta | lolo | 45% | 50% | 47% | 44% | 46% | 45% | 46% |
| Remaining in Delta | lomed | 40% | 43% | 34% | 46% | 43% | 47% | 47% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 34% | #N/A | 21% | 41% | 44% | 36% | 38% |
| Remaining in Delta | medlo | 21% | 28% | 30% | 25% | 25% | 24% | 25% |
| Remaining in Delta | medmed | 24% | 20% | 20% | 24% | 24% | 27% | 27% |
| Remaining in Delta | medhi | 14% | 4% | 4% | 14% | 14% | 14% | 14% |
| Remaining in Delta | hilo | 12% | 17% | 18% | 13% | 12% | 13% | 13% |
| Remaining in Delta | himed | 8% | 6% | 7% | 9% | 9% | 9% | 9% |
| Remaining in Delta | hihi | 3% | 1% | 1% | 2% | 2% | 3% | 3% |
| Crossed SJR to South Delta | lolo | 63% | 13% | 12% | 63% | 62% | 63% | 62% |
| Crossed SJR to South Delta | lomed | 66% | 11% | 8% | 62% | 61% | 52% | 52% |
| Crossed SJR to South Delta | lohi | 68% | #N/A | 5% | 59% | 54% | 68% | 66% |
| Crossed SJR to South Delta | medlo | 75% | 9% | 9% | 72% | 72% | 73% | 73% |
| Crossed SJR to South Delta | medmed | 63% | 5% | 6% | 63% | 62% | 53% | 52% |
| Crossed SJR to South Delta | medhi | 43% | 1% | 1% | 43% | 44% | 35% | 35% |
| Crossed SJR to South Delta | hilo | 61% | 5% | 5% | 61% | 61% | 61% | 62% |
| Crossed SJR to South Delta | himed | 46% | 2% | 2% | 45% | 45% | 42% | 42% |
| Crossed SJR to South Delta | hihi | 17% | 0% | 0% | 17% | 17% | 16% | 16% |

Table I.8-17. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 36% | 59% | 60% | 37% | 38% | 37% | 37% |
| West of Chipps | lomed | 40% | 55% | 59% | 39% | 41% | 45% | 46% |
| West of Chipps | lohi | 32% | #N/A | 61% | 26% | 28% | 33% | 34% |
| West of Chipps | medlo | 54% | 68% | 68% | 53% | 54% | 55% | 53% |
| West of Chipps | medmed | 58% | 66% | 68% | 58% | 58% | 59% | 60% |
| West of Chipps | medhi | 67% | 73% | 72% | 66% | 66% | 67% | 68% |
| West of Chipps | hilo | 72% | 75% | 74% | 72% | 72% | 72% | 72% |
| West of Chipps | himed | 76% | 75% | 75% | 75% | 75% | 76% | 76% |
| West of Chipps | hihi | 78% | 80% | 80% | 78% | 78% | 78% | 78% |
| Entrained at Exports | lolo | 7% | 0% | 0% | 7% | 6% | 7% | 6% |
| Entrained at Exports | lomed | 5% | 0% | 0% | 4% | 4% | 3% | 3% |
| Entrained at Exports | lohi | 8% | #N/A | 0% | 7% | 6% | 7% | 6% |
| Entrained at Exports | medlo | 6% | 0% | 0% | 6% | 6% | 6% | 6% |
| Entrained at Exports | medmed | 3% | 0% | 0% | 3% | 3% | 3% | 3% |
| Entrained at Exports | medhi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Entrained at Exports | hilo | 1% | 0% | 0% | 1% | 2% | 2% | 1% |
| Entrained at Exports | himed | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 57% | 41% | 40% | 56% | 56% | 56% | 57% |
| Remaining in Delta | lomed | 55% | 45% | 41% | 57% | 55% | 52% | 51% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 60% | #N/A | 39% | 67% | 67% | 60% | 60% |
| Remaining in Delta | medlo | 39% | 32% | 32% | 41% | 40% | 39% | 40% |
| Remaining in Delta | medmed | 39% | 34% | 32% | 39% | 39% | 38% | 38% |
| Remaining in Delta | medhi | 32% | 27% | 28% | 32% | 32% | 32% | 32% |
| Remaining in Delta | hilo | 27% | 25% | 26% | 27% | 27% | 27% | 27% |
| Remaining in Delta | himed | 24% | 25% | 25% | 24% | 24% | 24% | 24% |
| Remaining in Delta | hihi | 22% | 20% | 20% | 22% | 22% | 22% | 22% |
| Crossed SJR to South Delta | lolo | 12% | 2% | 2% | 12% | 11% | 12% | 12% |
| Crossed SJR to South Delta | lomed | 9% | 1% | 1% | 8% | 8% | 6% | 6% |
| Crossed SJR to South Delta | lohi | 14% | #N/A | 1% | 12% | 12% | 13% | 13% |
| Crossed SJR to South Delta | medlo | 9% | 1% | 1% | 9% | 9% | 9% | 9% |
| Crossed SJR to South Delta | medmed | 5% | 0% | 0% | 5% | 5% | 4% | 4% |
| Crossed SJR to South Delta | medhi | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | hilo | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | himed | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Table I.8-18. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 86% | 98% | 99% | 87% | 87% | 86% | 86% |
| West of Chipps | lomed | 92% | 99% | 99% | 91% | 92% | 94% | 94% |
| West of Chipps | lohi | 84% | #N/A | 99% | 83% | 84% | 84% | 84% |
| West of Chipps | medlo | 93% | 99% | 99% | 93% | 93% | 93% | 93% |
| West of Chipps | medmed | 96% | 99% | 99% | 96% | 96% | 97% | 97% |
| West of Chipps | medhi | 99% | 100% | 100% | 99% | 99% | 99% | 99% |
| West of Chipps | hilo | 99% | 100% | 100% | 99% | 99% | 99% | 99% |
| West of Chipps | himed | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| West of Chipps | hihi | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Entrained at Exports | lolo | 4% | 0% | 0% | 4% | 4% | 4% | 4% |
| Entrained at Exports | lomed | 2% | 0% | 0% | 2% | 2% | 1% | 1% |
| Entrained at Exports | lohi | 4% | #N/A | 0% | 2% | 2% | 4% | 4% |
| Entrained at Exports | medlo | 4% | 0% | 0% | 4% | 4% | 4% | 4% |
| Entrained at Exports | medmed | 2% | 0% | 0% | 2% | 2% | 1% | 2% |
| Entrained at Exports | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hilo | 0% | 0% | 0% | 0% | 0% | 0% | 1% |
| Entrained at Exports | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 10% | 2% | 1% | 9% | 9% | 10% | 10% |
| Remaining in Delta | lomed | 6% | 1% | 1% | 7% | 6% | 5% | 4% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 12% | #N/A | 1% | 15% | 14% | 12% | 12% |
| Remaining in Delta | medlo | 3% | 1% | 1% | 3% | 3% | 3% | 3% |
| Remaining in Delta | medmed | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Remaining in Delta | medhi | 1% | 0% | 0% | 1% | 1% | 1% | 1% |
| Remaining in Delta | hilo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lolo | 6% | 0% | 0% | 6% | 6% | 6% | 6% |
| Crossed SJR to South Delta | lomed | 3% | 0% | 0% | 3% | 3% | 2% | 2% |
| Crossed SJR to South Delta | lohi | 7% | #N/A | 0% | 4% | 3% | 7% | 7% |
| Crossed SJR to South Delta | medlo | 5% | 0% | 0% | 5% | 5% | 5% | 5% |
| Crossed SJR to South Delta | medmed | 2% | 0% | 0% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hilo | 0% | 0% | 0% | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

Table I.8-19. Mean December through March surface-oriented particle fate by Inflow bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | lolo | 89% | 67% | 69% | 89% | 89% | 90% | 91% |
| West of Chipps | lomed | 78% | 62% | 70% | 79% | 81% | 78% | 78% |
| West of Chipps | lohi | 83% | #N/A | 70% | 96% | 97% | 83% | 83% |
| West of Chipps | medlo | 86% | 82% | 80% | 87% | 87% | 87% | 87% |
| West of Chipps | medmed | 83% | 82% | 84% | 82% | 81% | 82% | 83% |
| West of Chipps | medhi | 82% | 92% | 91% | 81% | 81% | 83% | 83% |
| West of Chipps | hilo | 95% | 94% | 94% | 95% | 95% | 94% | 95% |
| West of Chipps | himed | 97% | 97% | 96% | 97% | 97% | 97% | 97% |
| West of Chipps | hihi | 98% | 99% | 99% | 98% | 98% | 98% | 98% |
| Entrained at Exports | lolo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | lomed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | lohi | 0% | #N/A | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medlo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medmed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hilo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Entrained at Exports | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Remaining in Delta | lolo | 11% | 33% | 31% | 11% | 11% | 10% | 9% |
| Remaining in Delta | lomed | 22% | 38% | 30% | 21% | 19% | 22% | 22% |

| Exit Point | Flow Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| Remaining in Delta | lohi | 17% | #N/A | 30% | 4% | 3% | 17% | 17% |
| Remaining in Delta | medlo | 14% | 18% | 20% | 13% | 13% | 13% | 13% |
| Remaining in Delta | medmed | 17% | 18% | 16% | 18% | 18% | 18% | 17% |
| Remaining in Delta | medhi | 18% | 8% | 9% | 19% | 19% | 17% | 17% |
| Remaining in Delta | hilo | 5% | 6% | 6% | 5% | 5% | 6% | 5% |
| Remaining in Delta | himed | 3% | 3% | 4% | 3% | 3% | 3% | 3% |
| Remaining in Delta | hihi | 2% | 1% | 1% | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | lolo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lomed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | lohi | 0% | #N/A | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medlo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medmed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | medhi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hilo | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | himed | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | hihi | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

1.8.4.3.3 Neutrally Buoyant, OMR Bins [BA, Table 1.8-20 through Table 1.8-28]

Table 1.8-20. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 10% | #N/A | #N/A | 3% | 4% | 10% | 12% |
| West of Chipps | -3500 | 20% | #N/A | #N/A | 13% | 13% | 17% | 16% |
| West of Chipps | -5000 | 2% | #N/A | #N/A | 17% | 17% | 16% | 15% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 59% | #N/A | #N/A | 56% | 58% | 57% | 58% |
| Entrained at Exports | -3500 | 69% | #N/A | #N/A | 72% | 72% | 69% | 71% |
| Entrained at Exports | -5000 | 88% | #N/A | #N/A | 77% | 76% | 78% | 79% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | #N/A | #N/A | 41% | 38% | 32% | 30% |
| Remaining in Delta | -3500 | 11% | #N/A | #N/A | 15% | 15% | 14% | 13% |
| Remaining in Delta | -5000 | 10% | #N/A | #N/A | 7% | 7% | 6% | 6% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 46% | #N/A | #N/A | 49% | 48% | 46% | 45% |
| Crossed SJR to South Delta | -3500 | 46% | #N/A | #N/A | 50% | 50% | 48% | 49% |
| Crossed SJR to South Delta | -5000 | 67% | #N/A | #N/A | 53% | 53% | 54% | 55% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-21. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 13% | #N/A | #N/A | 10% | 10% | 13% | 14% |
| West of Chipps | -3500 | 13% | #N/A | #N/A | 11% | 12% | 13% | 12% |
| West of Chipps | -5000 | 6% | #N/A | #N/A | 10% | 10% | 10% | 10% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 73% | #N/A | #N/A | 74% | 75% | 74% | 73% |
| Entrained at Exports | -3500 | 83% | #N/A | #N/A | 83% | 83% | 81% | 82% |
| Entrained at Exports | -5000 | 88% | #N/A | #N/A | 85% | 85% | 86% | 86% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 14% | #N/A | #N/A | 17% | 15% | 13% | 13% |
| Remaining in Delta | -3500 | 4% | #N/A | #N/A | 6% | 5% | 7% | 6% |
| Remaining in Delta | -5000 | 6% | #N/A | #N/A | 4% | 4% | 4% | 4% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | -17% | #N/A | #N/A | -15% | -15% | -17% | -17% |
| Crossed SJR to South Delta | -3500 | -14% | #N/A | #N/A | -13% | -13% | -14% | -14% |
| Crossed SJR to South Delta | -5000 | -7% | #N/A | #N/A | -11% | -11% | -11% | -11% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-22. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 99% | #N/A | #N/A | 99% | 99% | 99% | 99% |
| Entrained at Exports | -3500 | 100% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Entrained at Exports | -5000 | 99% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Remaining in Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -5000 | 1% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-23. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 55% | #N/A | #N/A | 38% | 42% | 55% | 57% |
| West of Chipps | -3500 | 71% | #N/A | #N/A | 62% | 63% | 64% | 64% |
| West of Chipps | -5000 | 38% | #N/A | #N/A | 67% | 67% | 66% | 65% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 15% | #N/A | #N/A | 14% | 15% | 14% | 14% |
| Entrained at Exports | -3500 | 19% | #N/A | #N/A | 22% | 21% | 21% | 22% |
| Entrained at Exports | -5000 | 44% | #N/A | #N/A | 23% | 23% | 25% | 26% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | #N/A | #N/A | 48% | 44% | 31% | 29% |
| Remaining in Delta | -3500 | 11% | #N/A | #N/A | 16% | 16% | 15% | 15% |
| Remaining in Delta | -5000 | 18% | #N/A | #N/A | 10% | 10% | 9% | 9% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 29% | #N/A | #N/A | 35% | 34% | 28% | 27% |
| Crossed SJR to South Delta | -3500 | 24% | #N/A | #N/A | 29% | 28% | 28% | 29% |
| Crossed SJR to South Delta | -5000 | 52% | #N/A | #N/A | 27% | 27% | 29% | 30% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-24. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 77% | #N/A | #N/A | 64% | 69% | 76% | 79% |
| West of Chipps | -3500 | 90% | #N/A | #N/A | 87% | 88% | 86% | 87% |
| West of Chipps | -5000 | 65% | #N/A | #N/A | 86% | 86% | 85% | 84% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 3% | #N/A | #N/A | 3% | 3% | 3% | 3% |
| Entrained at Exports | -3500 | 3% | #N/A | #N/A | 3% | 3% | 4% | 4% |
| Entrained at Exports | -5000 | 14% | #N/A | #N/A | 5% | 5% | 6% | 7% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 20% | #N/A | #N/A | 34% | 28% | 21% | 19% |
| Remaining in Delta | -3500 | 7% | #N/A | #N/A | 9% | 9% | 10% | 9% |
| Remaining in Delta | -5000 | 20% | #N/A | #N/A | 9% | 9% | 9% | 9% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 8% | #N/A | #N/A | 11% | 10% | 9% | 8% |
| Crossed SJR to South Delta | -3500 | 5% | #N/A | #N/A | 5% | 5% | 6% | 6% |
| Crossed SJR to South Delta | -5000 | 20% | #N/A | #N/A | 7% | 7% | 8% | 9% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-25. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 33% | #N/A | #N/A | 17% | 19% | 34% | 38% |
| West of Chipps | -3500 | 56% | #N/A | #N/A | 43% | 44% | 46% | 46% |
| West of Chipps | -5000 | 19% | #N/A | #N/A | 52% | 52% | 52% | 50% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 16% | #N/A | #N/A | 13% | 14% | 15% | 15% |
| Entrained at Exports | -3500 | 24% | #N/A | #N/A | 27% | 27% | 27% | 28% |
| Entrained at Exports | -5000 | 59% | #N/A | #N/A | 34% | 34% | 36% | 37% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 50% | #N/A | #N/A | 70% | 67% | 51% | 48% |
| Remaining in Delta | -3500 | 19% | #N/A | #N/A | 29% | 28% | 27% | 25% |
| Remaining in Delta | -5000 | 21% | #N/A | #N/A | 15% | 15% | 13% | 14% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 38% | #N/A | #N/A | 42% | 42% | 37% | 36% |
| Crossed SJR to South Delta | -3500 | 34% | #N/A | #N/A | 40% | 40% | 39% | 40% |
| Crossed SJR to South Delta | -5000 | 69% | #N/A | #N/A | 40% | 40% | 41% | 43% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-26. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 42% | #N/A | #N/A | 31% | 34% | 43% | 45% |
| West of Chipps | -3500 | 59% | #N/A | #N/A | 51% | 51% | 52% | 52% |
| West of Chipps | -5000 | 33% | #N/A | #N/A | 46% | 46% | 49% | 47% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Entrained at Exports | -3500 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Entrained at Exports | -5000 | 6% | #N/A | #N/A | 2% | 2% | 2% | 3% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 57% | #N/A | #N/A | 68% | 65% | 56% | 54% |
| Remaining in Delta | -3500 | 40% | #N/A | #N/A | 48% | 48% | 47% | 46% |
| Remaining in Delta | -5000 | 61% | #N/A | #N/A | 52% | 52% | 49% | 51% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 5% | #N/A | #N/A | 5% | 5% | 5% | 4% |
| Crossed SJR to South Delta | -3500 | 2% | #N/A | #N/A | 2% | 2% | 3% | 3% |
| Crossed SJR to South Delta | -5000 | 10% | #N/A | #N/A | 3% | 3% | 4% | 4% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-27. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 95% | #N/A | #N/A | 90% | 93% | 95% | 95% |
| West of Chipps | -3500 | 98% | #N/A | #N/A | 98% | 98% | 97% | 98% |
| West of Chipps | -5000 | 92% | #N/A | #N/A | 98% | 98% | 98% | 98% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -5000 | 2% | #N/A | #N/A | 0% | 0% | 1% | 1% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 5% | #N/A | #N/A | 10% | 7% | 5% | 4% |
| Remaining in Delta | -3500 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Remaining in Delta | -5000 | 6% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 1% | #N/A | #N/A | 2% | 1% | 1% | 1% |
| Crossed SJR to South Delta | -3500 | 1% | #N/A | #N/A | 0% | 0% | 1% | 1% |
| Crossed SJR to South Delta | -5000 | 3% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-28. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 69% | #N/A | #N/A | 66% | 62% | 70% | 71% |
| West of Chipps | -3500 | 86% | #N/A | #N/A | 77% | 78% | 77% | 77% |
| West of Chipps | -5000 | 73% | #N/A | #N/A | 74% | 74% | 75% | 73% |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | #N/A | #N/A | 34% | 38% | 30% | 29% |
| Remaining in Delta | -3500 | 14% | #N/A | #N/A | 23% | 22% | 23% | 23% |
| Remaining in Delta | -5000 | 27% | #N/A | #N/A | 26% | 26% | 25% | 27% |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

1.8.4.3.4 Surface Oriented, OMR Bins [BA, Table 1.8-29 through Table 1.8-37]

Table 1.8-29. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|----------------|------------|-------------|-------------|---------------------------|----------------------------|-------------------------------|-----------------------------|
| West of Chipps | -2000 | 9% | #N/A | #N/A | 4% | 4% | 13% | 14% |
| West of Chipps | -3500 | 12% | #N/A | #N/A | 9% | 9% | 7% | 7% |
| West of Chipps | -5000 | 6% | #N/A | #N/A | 9% | 10% | 10% | 9% |
| West of Chipps | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -2000 | 66% | #N/A | #N/A | 69% | 70% | 61% | 62% |
| Entrained at Exports | -3500 | 78% | #N/A | #N/A | 81% | 81% | 82% | 82% |
| Entrained at Exports | -5000 | 88% | #N/A | #N/A | 85% | 85% | 85% | 85% |
| Entrained at Exports | -5500 | 89% | #N/A | #N/A | 88% | 88% | 88% | 88% |
| Remaining in Delta | -2000 | 25% | #N/A | #N/A | 27% | 25% | 26% | 25% |
| Remaining in Delta | -3500 | 10% | #N/A | #N/A | 10% | 10% | 11% | 11% |
| Remaining in Delta | -5000 | 6% | #N/A | #N/A | 5% | 5% | 5% | 5% |
| Remaining in Delta | -5500 | 11% | #N/A | #N/A | 12% | 12% | 12% | 12% |
| Crossed SJR to South Delta | -2000 | 44% | #N/A | #N/A | 47% | 49% | 42% | 42% |
| Crossed SJR to South Delta | -3500 | 51% | #N/A | #N/A | 53% | 53% | 53% | 53% |
| Crossed SJR to South Delta | -5000 | 55% | #N/A | #N/A | 53% | 52% | 52% | 52% |
| Crossed SJR to South Delta | -5500 | 51% | #N/A | #N/A | 51% | 51% | 52% | 51% |

Table I.8-30. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 10% | #N/A | #N/A | 9% | 10% | 15% | 14% |
| West of Chipps | -3500 | 11% | #N/A | #N/A | 10% | 10% | 9% | 9% |
| West of Chipps | -5000 | 7% | #N/A | #N/A | 8% | 8% | 8% | 8% |
| West of Chipps | -5500 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Entrained at Exports | -2000 | 81% | #N/A | #N/A | 81% | 81% | 78% | 78% |
| Entrained at Exports | -3500 | 86% | #N/A | #N/A | 87% | 87% | 87% | 88% |
| Entrained at Exports | -5000 | 91% | #N/A | #N/A | 90% | 90% | 90% | 90% |
| Entrained at Exports | -5500 | 97% | #N/A | #N/A | 97% | 97% | 97% | 97% |
| Remaining in Delta | -2000 | 9% | #N/A | #N/A | 10% | 9% | 7% | 8% |
| Remaining in Delta | -3500 | 3% | #N/A | #N/A | 3% | 3% | 3% | 3% |
| Remaining in Delta | -5000 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Remaining in Delta | -5500 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | -2000 | -15% | #N/A | #N/A | -14% | -14% | -18% | -17% |
| Crossed SJR to South Delta | -3500 | -12% | #N/A | #N/A | -11% | -11% | -10% | -10% |
| Crossed SJR to South Delta | -5000 | -7% | #N/A | #N/A | -8% | -8% | -8% | -8% |
| Crossed SJR to South Delta | -5500 | -2% | #N/A | #N/A | -2% | -2% | -2% | -2% |

Table I.8-31. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|------|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| West of Chipps | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -2000 | 100% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Entrained at Exports | -3500 | 100% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Entrained at Exports | -5000 | 100% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Entrained at Exports | -5500 | 100% | #N/A | #N/A | 100% | 100% | 100% | 100% |
| Remaining in Delta | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |

Table I.8-32. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 44% | #N/A | #N/A | 40% | 43% | 62% | 59% |
| West of Chipps | -3500 | 61% | #N/A | #N/A | 60% | 60% | 55% | 55% |
| West of Chipps | -5000 | 50% | #N/A | #N/A | 54% | 54% | 55% | 55% |
| West of Chipps | -5500 | 11% | #N/A | #N/A | 12% | 11% | 11% | 11% |
| Entrained at Exports | -2000 | 24% | #N/A | #N/A | 26% | 25% | 15% | 17% |
| Entrained at Exports | -3500 | 28% | #N/A | #N/A | 29% | 29% | 32% | 32% |
| Entrained at Exports | -5000 | 42% | #N/A | #N/A | 39% | 39% | 39% | 39% |
| Entrained at Exports | -5500 | 81% | #N/A | #N/A | 80% | 80% | 80% | 80% |
| Remaining in Delta | -2000 | 32% | #N/A | #N/A | 34% | 32% | 23% | 24% |
| Remaining in Delta | -3500 | 11% | #N/A | #N/A | 11% | 11% | 13% | 13% |
| Remaining in Delta | -5000 | 8% | #N/A | #N/A | 7% | 7% | 6% | 6% |
| Remaining in Delta | -5500 | 9% | #N/A | #N/A | 8% | 8% | 9% | 9% |
| Crossed SJR to South Delta | -2000 | 36% | #N/A | #N/A | 39% | 38% | 25% | 27% |
| Crossed SJR to South Delta | -3500 | 33% | #N/A | #N/A | 35% | 34% | 38% | 38% |
| Crossed SJR to South Delta | -5000 | 46% | #N/A | #N/A | 43% | 43% | 42% | 42% |
| Crossed SJR to South Delta | -5500 | 85% | #N/A | #N/A | 84% | 84% | 84% | 85% |

Table I.8-33. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 67% | #N/A | #N/A | 65% | 69% | 82% | 79% |
| West of Chipps | -3500 | 87% | #N/A | #N/A | 89% | 89% | 85% | 85% |
| West of Chipps | -5000 | 85% | #N/A | #N/A | 85% | 85% | 86% | 86% |
| West of Chipps | -5500 | 48% | #N/A | #N/A | 50% | 49% | 49% | 49% |
| Entrained at Exports | -2000 | 6% | #N/A | #N/A | 7% | 6% | 3% | 4% |
| Entrained at Exports | -3500 | 5% | #N/A | #N/A | 5% | 5% | 6% | 6% |
| Entrained at Exports | -5000 | 9% | #N/A | #N/A | 8% | 8% | 8% | 8% |
| Entrained at Exports | -5500 | 35% | #N/A | #N/A | 34% | 34% | 34% | 34% |
| Remaining in Delta | -2000 | 27% | #N/A | #N/A | 28% | 25% | 15% | 17% |
| Remaining in Delta | -3500 | 8% | #N/A | #N/A | 6% | 7% | 9% | 9% |
| Remaining in Delta | -5000 | 7% | #N/A | #N/A | 7% | 6% | 6% | 6% |
| Remaining in Delta | -5500 | 17% | #N/A | #N/A | 16% | 17% | 17% | 17% |
| Crossed SJR to South Delta | -2000 | 12% | #N/A | #N/A | 13% | 12% | 6% | 8% |
| Crossed SJR to South Delta | -3500 | 7% | #N/A | #N/A | 6% | 6% | 8% | 8% |
| Crossed SJR to South Delta | -5000 | 11% | #N/A | #N/A | 10% | 10% | 10% | 10% |
| Crossed SJR to South Delta | -5500 | 40% | #N/A | #N/A | 39% | 40% | 39% | 39% |

Table I.8-34. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 26% | #N/A | #N/A | 21% | 22% | 44% | 43% |
| West of Chipps | -3500 | 45% | #N/A | #N/A | 42% | 42% | 38% | 37% |
| West of Chipps | -5000 | 33% | #N/A | #N/A | 39% | 39% | 40% | 40% |
| West of Chipps | -5500 | 2% | #N/A | #N/A | 3% | 2% | 2% | 2% |
| Entrained at Exports | -2000 | 23% | #N/A | #N/A | 25% | 27% | 16% | 17% |
| Entrained at Exports | -3500 | 34% | #N/A | #N/A | 38% | 37% | 39% | 39% |
| Entrained at Exports | -5000 | 53% | #N/A | #N/A | 48% | 48% | 48% | 49% |
| Entrained at Exports | -5500 | 78% | #N/A | #N/A | 78% | 78% | 79% | 78% |
| Remaining in Delta | -2000 | 50% | #N/A | #N/A | 54% | 51% | 40% | 40% |
| Remaining in Delta | -3500 | 21% | #N/A | #N/A | 20% | 21% | 23% | 23% |
| Remaining in Delta | -5000 | 14% | #N/A | #N/A | 13% | 12% | 12% | 12% |
| Remaining in Delta | -5500 | 20% | #N/A | #N/A | 19% | 19% | 19% | 19% |
| Crossed SJR to South Delta | -2000 | 43% | #N/A | #N/A | 46% | 48% | 34% | 34% |
| Crossed SJR to South Delta | -3500 | 45% | #N/A | #N/A | 48% | 47% | 50% | 50% |
| Crossed SJR to South Delta | -5000 | 59% | #N/A | #N/A | 54% | 54% | 54% | 54% |
| Crossed SJR to South Delta | -5500 | 85% | #N/A | #N/A | 85% | 86% | 86% | 86% |

Table I.8-35. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 42% | #N/A | #N/A | 40% | 43% | 54% | 52% |
| West of Chipps | -3500 | 61% | #N/A | #N/A | 63% | 63% | 62% | 61% |
| West of Chipps | -5000 | 65% | #N/A | #N/A | 66% | 66% | 67% | 67% |
| West of Chipps | -5500 | 34% | #N/A | #N/A | 36% | 36% | 35% | 35% |
| Entrained at Exports | -2000 | 3% | #N/A | #N/A | 3% | 3% | 1% | 1% |
| Entrained at Exports | -3500 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Entrained at Exports | -5000 | 3% | #N/A | #N/A | 3% | 3% | 3% | 3% |
| Entrained at Exports | -5500 | 16% | #N/A | #N/A | 16% | 16% | 16% | 16% |
| Remaining in Delta | -2000 | 55% | #N/A | #N/A | 56% | 54% | 45% | 46% |
| Remaining in Delta | -3500 | 37% | #N/A | #N/A | 35% | 35% | 36% | 36% |
| Remaining in Delta | -5000 | 32% | #N/A | #N/A | 31% | 31% | 30% | 29% |
| Remaining in Delta | -5500 | 49% | #N/A | #N/A | 48% | 48% | 49% | 49% |
| Crossed SJR to South Delta | -2000 | 7% | #N/A | #N/A | 8% | 7% | 4% | 4% |
| Crossed SJR to South Delta | -3500 | 3% | #N/A | #N/A | 3% | 3% | 4% | 4% |
| Crossed SJR to South Delta | -5000 | 5% | #N/A | #N/A | 5% | 5% | 5% | 5% |
| Crossed SJR to South Delta | -5500 | 22% | #N/A | #N/A | 21% | 21% | 21% | 21% |

Table I.8-36. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 90% | #N/A | #N/A | 90% | 91% | 95% | 94% |
| West of Chipps | -3500 | 97% | #N/A | #N/A | 98% | 98% | 96% | 96% |
| West of Chipps | -5000 | 96% | #N/A | #N/A | 96% | 96% | 96% | 96% |
| West of Chipps | -5500 | 77% | #N/A | #N/A | 78% | 78% | 77% | 77% |
| Entrained at Exports | -2000 | 1% | #N/A | #N/A | 1% | 1% | 0% | 1% |
| Entrained at Exports | -3500 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Entrained at Exports | -5000 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Entrained at Exports | -5500 | 14% | #N/A | #N/A | 14% | 14% | 14% | 14% |
| Remaining in Delta | -2000 | 9% | #N/A | #N/A | 9% | 8% | 4% | 6% |
| Remaining in Delta | -3500 | 2% | #N/A | #N/A | 2% | 2% | 3% | 3% |
| Remaining in Delta | -5000 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Remaining in Delta | -5500 | 9% | #N/A | #N/A | 8% | 8% | 9% | 9% |
| Crossed SJR to South Delta | -2000 | 2% | #N/A | #N/A | 3% | 2% | 1% | 1% |
| Crossed SJR to South Delta | -3500 | 1% | #N/A | #N/A | 1% | 1% | 1% | 1% |
| Crossed SJR to South Delta | -5000 | 2% | #N/A | #N/A | 2% | 2% | 2% | 2% |
| Crossed SJR to South Delta | -5500 | 17% | #N/A | #N/A | 16% | 17% | 17% | 17% |

Table I.8-37. Mean December through March surface-oriented particle fate by OMR bin for NAA, EXP1, EXP3, and four phases of Alternative 2 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | EXP1 | EXP3 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA |
|----------------------------|---------|-----|------|------|-------------------|--------------------|-----------------------|---------------------|
| West of Chipps | -2000 | 91% | #N/A | #N/A | 88% | 89% | 86% | 90% |
| West of Chipps | -3500 | 89% | #N/A | #N/A | 88% | 89% | 91% | 91% |
| West of Chipps | -5000 | 92% | #N/A | #N/A | 94% | 94% | 94% | 93% |
| West of Chipps | -5500 | 86% | #N/A | #N/A | 87% | 87% | 87% | 87% |
| Entrained at Exports | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Entrained at Exports | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Remaining in Delta | -2000 | 9% | #N/A | #N/A | 12% | 11% | 14% | 10% |
| Remaining in Delta | -3500 | 11% | #N/A | #N/A | 12% | 11% | 9% | 9% |
| Remaining in Delta | -5000 | 8% | #N/A | #N/A | 6% | 6% | 6% | 7% |
| Remaining in Delta | -5500 | 14% | #N/A | #N/A | 12% | 12% | 13% | 12% |
| Crossed SJR to South Delta | -2000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -3500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5000 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |
| Crossed SJR to South Delta | -5500 | 0% | #N/A | #N/A | 0% | 0% | 0% | 0% |

1.8.4.3.5 Neutrally Buoyant, Inflow Bins [EIS, Table I.8-38 through Table I.8-46]

Table I.8-38. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 0% | 0 (-35%) | 0 (-56%) | 0 (-47%) | 0 (14%) | 0 (12%) | 1 (139%) | 0 (-56%) |
| West of Chipps | lomed | 2% | 1 (-35%) | 1 (-57%) | 1 (-50%) | 2 (25%) | 2 (13%) | 4 (165%) | 1 (-57%) |
| West of Chipps | lohi | 17% | 13 (-23%) | 11 (-33%) | 11 (-33%) | 15 (-10%) | 16 (-4%) | 18 (5%) | 11 (-33%) |
| West of Chipps | medlo | 0% | 0 (-47%) | 0 (-18%) | 0 (-24%) | 0 (25%) | 0 (80%) | 3 (2157%) | 0 (-19%) |
| West of Chipps | medmed | 3% | 1 (-71%) | 1 (-54%) | 2 (-50%) | 6 (81%) | 6 (95%) | 15 (365%) | 1 (-57%) |
| West of Chipps | medhi | 33% | 16 (-53%) | 20 (-38%) | 21 (-37%) | 29 (-13%) | 27 (-17%) | 52 (58%) | 20 (-39%) |
| West of Chipps | hilo | 1% | 0 (-86%) | 0 (-42%) | 0 (-36%) | #N/A | #N/A | 1 (-23%) | 0 (-62%) |
| West of Chipps | himed | 7% | 1 (-90%) | 4 (-37%) | 4 (-41%) | 12 (75%) | 13 (81%) | 24 (239%) | 4 (-43%) |
| West of Chipps | hihi | 50% | 41 (-18%) | 44 (-13%) | 43 (-13%) | 50 (0%) | 50 (-1%) | 70 (41%) | 43 (-14%) |
| Entrained at Exports | lolo | 61% | 60 (-1%) | 62 (3%) | 65 (7%) | 67 (11%) | 68 (12%) | 42 (-31%) | 62 (3%) |
| Entrained at Exports | lomed | 70% | 72 (3%) | 70 (1%) | 71 (1%) | 68 (-3%) | 68 (-3%) | 38 (-45%) | 71 (1%) |
| Entrained at Exports | lohi | 63% | 70 (11%) | 71 (13%) | 70 (12%) | 68 (8%) | 68 (8%) | 49 (-22%) | 71 (13%) |
| Entrained at Exports | medlo | 86% | 86 (-1%) | 84 (-3%) | 84 (-3%) | 85 (-2%) | 83 (-4%) | 49 (-43%) | 84 (-3%) |
| Entrained at Exports | medmed | 77% | 88 (14%) | 80 (4%) | 80 (3%) | 69 (-10%) | 69 (-11%) | 34 (-56%) | 81 (4%) |
| Entrained at Exports | medhi | 53% | 73 (38%) | 66 (26%) | 66 (25%) | 59 (12%) | 60 (14%) | 21 (-60%) | 67 (26%) |
| Entrained at Exports | hilo | 89% | 91 (2%) | 90 (0%) | 90 (0%) | #N/A | #N/A | 82 (-9%) | 92 (2%) |
| Entrained at Exports | himed | 80% | 95 (18%) | 82 (2%) | 82 (3%) | 70 (-13%) | 70 (-13%) | 46 (-43%) | 83 (4%) |
| Entrained at Exports | hihi | 45% | 55 (22%) | 52 (15%) | 52 (15%) | 45 (1%) | 46 (1%) | 22 (-52%) | 53 (17%) |
| Remaining in Delta | lolo | 39% | 40 (3%) | 38 (-4%) | 35 (-10%) | 32 (-17%) | 31 (-19%) | 57 (47%) | 38 (-3%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|------------|-----------|
| Remaining in Delta | lomed | 28% | 27 (-5%) | 29 (2%) | 29 (0%) | 30 (6%) | 30 (6%) | 57 (102%) | 28 (0%) |
| Remaining in Delta | lohi | 20% | 17 (-16%) | 17 (-14%) | 18 (-9%) | 17 (-17%) | 15 (-23%) | 33 (64%) | 17 (-13%) |
| Remaining in Delta | medlo | 13% | 14 (6%) | 16 (22%) | 16 (18%) | 15 (12%) | 16 (23%) | 48 (260%) | 16 (18%) |
| Remaining in Delta | medmed | 19% | 11 (-44%) | 18 (-7%) | 19 (-4%) | 25 (27%) | 25 (28%) | 51 (164%) | 18 (-8%) |
| Remaining in Delta | medhi | 14% | 12 (-19%) | 13 (-6%) | 13 (-7%) | 12 (-14%) | 13 (-10%) | 26 (85%) | 13 (-8%) |
| Remaining in Delta | hilo | 10% | 9 (-12%) | 10 (-1%) | 10 (0%) | #N/A | #N/A | 18 (82%) | 8 (-17%) |
| Remaining in Delta | himed | 13% | 4 (-64%) | 13 (6%) | 13 (7%) | 17 (38%) | 17 (36%) | 30 (138%) | 13 (0%) |
| Remaining in Delta | hihi | 5% | 4 (-19%) | 5 (-9%) | 5 (-8%) | 5 (-7%) | 5 (-5%) | 8 (56%) | 4 (-10%) |
| Crossed SJR to South Delta | lolo | 54% | 54 (0%) | 55 (3%) | 56 (5%) | 58 (7%) | 58 (9%) | 48 (-11%) | 55 (2%) |
| Crossed SJR to South Delta | lomed | 55% | 55 (1%) | 55 (0%) | 55 (1%) | 54 (-2%) | 54 (-1%) | 42 (-24%) | 55 (1%) |
| Crossed SJR to South Delta | lohi | 46% | 51 (11%) | 53 (15%) | 52 (14%) | 49 (8%) | 49 (7%) | 39 (-15%) | 53 (15%) |
| Crossed SJR to South Delta | medlo | 67% | 65 (-3%) | 65 (-3%) | 65 (-3%) | 66 (-1%) | 65 (-2%) | 41 (-39%) | 65 (-3%) |
| Crossed SJR to South Delta | medmed | 57% | 63 (10%) | 59 (4%) | 59 (3%) | 53 (-8%) | 53 (-8%) | 30 (-48%) | 60 (4%) |
| Crossed SJR to South Delta | medhi | 33% | 51 (56%) | 46 (39%) | 45 (37%) | 38 (16%) | 39 (20%) | 7 (-80%) | 46 (39%) |
| Crossed SJR to South Delta | hilo | 58% | 58 (-1%) | 59 (1%) | 59 (1%) | #N/A | #N/A | 54 (-8%) | 59 (2%) |
| Crossed SJR to South Delta | himed | 55% | 60 (10%) | 57 (4%) | 57 (4%) | 48 (-12%) | 48 (-12%) | 33 (-40%) | 57 (4%) |
| Crossed SJR to South Delta | hihi | 21% | 29 (42%) | 27 (30%) | 27 (31%) | 21 (0%) | 21 (2%) | -1 (-106%) | 28 (33%) |

Table I.8-39. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 7% | 7 (12%) | 6 (-9%) | 7 (1%) | 7 (7%) | 7 (8%) | 13 (93%) | 6 (-8%) |
| West of Chipps | lomed | 9% | 8 (-8%) | 8 (-12%) | 8 (-7%) | 10 (15%) | 10 (16%) | 16 (87%) | 7 (-13%) |
| West of Chipps | lohi | 14% | 11 (-19%) | 10 (-24%) | 11 (-22%) | 13 (-4%) | 13 (-1%) | 19 (42%) | 10 (-24%) |
| West of Chipps | medlo | 5% | 4 (-12%) | 5 (13%) | 6 (15%) | 6 (15%) | 6 (27%) | 18 (261%) | 5 (11%) |
| West of Chipps | medmed | 10% | 6 (-42%) | 9 (-13%) | 9 (-10%) | 13 (33%) | 14 (36%) | 27 (169%) | 9 (-15%) |
| West of Chipps | medhi | 25% | 12 (-52%) | 15 (-39%) | 15 (-38%) | 22 (-12%) | 21 (-17%) | 49 (98%) | 15 (-39%) |
| West of Chipps | hilo | 9% | 6 (-36%) | 10 (5%) | 10 (4%) | #N/A | #N/A | 9 (-3%) | 9 (-4%) |
| West of Chipps | himed | 13% | 4 (-67%) | 12 (-9%) | 12 (-9%) | 16 (25%) | 16 (25%) | 28 (119%) | 11 (-12%) |
| West of Chipps | hihi | 35% | 33 (-6%) | 31 (-12%) | 30 (-13%) | 35 (0%) | 35 (0%) | 68 (94%) | 30 (-14%) |
| Entrained at Exports | lolo | 75% | 76 (0%) | 77 (2%) | 78 (3%) | 78 (4%) | 78 (4%) | 55 (-27%) | 77 (2%) |
| Entrained at Exports | lomed | 79% | 81 (3%) | 79 (1%) | 80 (2%) | 78 (-1%) | 78 (-1%) | 46 (-41%) | 80 (2%) |
| Entrained at Exports | lohi | 77% | 81 (6%) | 82 (7%) | 81 (6%) | 78 (2%) | 78 (1%) | 57 (-26%) | 82 (7%) |
| Entrained at Exports | medlo | 88% | 89 (1%) | 87 (-1%) | 87 (-1%) | 87 (-2%) | 86 (-2%) | 54 (-38%) | 87 (-1%) |
| Entrained at Exports | medmed | 83% | 89 (8%) | 84 (2%) | 84 (1%) | 77 (-7%) | 77 (-7%) | 32 (-61%) | 85 (2%) |
| Entrained at Exports | medhi | 63% | 82 (29%) | 79 (24%) | 79 (24%) | 70 (10%) | 71 (13%) | 19 (-69%) | 79 (24%) |
| Entrained at Exports | hilo | 90% | 90 (1%) | 89 (-1%) | 89 (-1%) | #N/A | #N/A | 88 (-1%) | 90 (1%) |
| Entrained at Exports | himed | 83% | 94 (13%) | 85 (2%) | 85 (2%) | 79 (-5%) | 79 (-5%) | 49 (-42%) | 85 (2%) |
| Entrained at Exports | hihi | 59% | 62 (6%) | 65 (10%) | 65 (10%) | 60 (1%) | 60 (1%) | 19 (-67%) | 66 (11%) |
| Remaining in Delta | lolo | 18% | 17 (-6%) | 17 (-7%) | 15 (-14%) | 15 (-17%) | 15 (-18%) | 32 (80%) | 17 (-4%) |
| Remaining in Delta | lomed | 13% | 11 (-11%) | 13 (3%) | 12 (-5%) | 12 (-3%) | 12 (-5%) | 38 (197%) | 13 (-1%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|------|------------|-------------------|--------------------|-----------------------|---------------------|------------|------------|
| Remaining in Delta | lohi | 10% | 8 (-18%) | 8 (-22%) | 8 (-16%) | 9 (-9%) | 9 (-9%) | 24 (146%) | 8 (-22%) |
| Remaining in Delta | medlo | 7% | 6 (-10%) | 8 (8%) | 7 (6%) | 8 (9%) | 8 (10%) | 28 (303%) | 8 (8%) |
| Remaining in Delta | medmed | 7% | 5 (-29%) | 7 (-5%) | 7 (-1%) | 9 (29%) | 9 (30%) | 40 (468%) | 7 (-7%) |
| Remaining in Delta | medhi | 12% | 6 (-49%) | 6 (-48%) | 6 (-49%) | 8 (-30%) | 8 (-32%) | 32 (164%) | 6 (-47%) |
| Remaining in Delta | hilo | 1% | 4 (225%) | 1 (-1%) | 1 (8%) | #N/A | #N/A | 3 (117%) | 1 (-17%) |
| Remaining in Delta | himed | 4% | 2 (-53%) | 3 (-9%) | 3 (-10%) | 5 (27%) | 5 (26%) | 23 (521%) | 3 (-9%) |
| Remaining in Delta | hihi | 6% | 4 (-23%) | 4 (-28%) | 4 (-27%) | 5 (-12%) | 5 (-12%) | 13 (119%) | 4 (-25%) |
| Crossed SJR to South Delta | lolo | -13% | -13 (3%) | -12 (-6%) | -12 (-7%) | -12 (-9%) | -12 (-10%) | -22 (68%) | -12 (-4%) |
| Crossed SJR to South Delta | lomed | -13% | -12 (-8%) | -12 (-4%) | -12 (-4%) | -14 (9%) | -14 (8%) | -26 (101%) | -12 (-6%) |
| Crossed SJR to South Delta | lohi | -16% | -13 (-18%) | -12 (-22%) | -13 (-19%) | -16 (-3%) | -16 (0%) | -26 (64%) | -13 (-21%) |
| Crossed SJR to South Delta | medlo | -7% | -6 (-10%) | -8 (16%) | -8 (17%) | -8 (13%) | -8 (23%) | -23 (245%) | -8 (15%) |
| Crossed SJR to South Delta | medmed | -12% | -7 (-40%) | -11 (-10%) | -11 (-7%) | -16 (33%) | -16 (34%) | -36 (200%) | -10 (-11%) |
| Crossed SJR to South Delta | medhi | -27% | -13 (-51%) | -17 (-39%) | -17 (-39%) | -24 (-12%) | -23 (-17%) | -59 (116%) | -16 (-40%) |
| Crossed SJR to South Delta | hilo | -10% | -7 (-30%) | -10 (5%) | -10 (4%) | #N/A | #N/A | -9 (-2%) | -9 (-4%) |
| Crossed SJR to South Delta | himed | -13% | -5 (-66%) | -12 (-8%) | -12 (-8%) | -17 (25%) | -17 (26%) | -32 (137%) | -12 (-11%) |
| Crossed SJR to South Delta | hihi | -36% | -34 (-5%) | -31 (-12%) | -31 (-13%) | -36 (0%) | -36 (0%) | -72 (100%) | -31 (-14%) |

Table I.8-40. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|------|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 0% | 0 (286%) | 0 (-32%) | 0 (633%) | 0 (199%) | 0 (-321%) | N/A | 0 (-550%) |
| West of Chipps | lomed | 0% | N/A | 0 (-192%) | N/A | N/A | N/A | N/A | 0 (-144%) |
| West of Chipps | lohi | 0% | 0 (60%) | 0 (-205%) | 0 (-205%) | N/A | N/A | N/A | 0 (-109%) |
| West of Chipps | medlo | 0% | 0 (-175%) | 0 (-182%) | 0 (-97%) | 0 (-186%) | 0 (-67%) | N/A | 0 (-166%) |
| West of Chipps | medmed | 0% | 0 (-72%) | 0 (-113%) | 0 (1%) | N/A | N/A | N/A | 0 (-62%) |
| West of Chipps | medhi | 2% | 0 (-87%) | 1 (-71%) | 1 (-70%) | 2 (-1%) | 2 (-14%) | 20 (757%) | 1 (-70%) |
| West of Chipps | hilo | 0% | 0 (-165%) | 0 (-100%) | 0 (-100%) | #N/A | #N/A | 0 (-196%) | 0 (-100%) |
| West of Chipps | himed | 0% | 0 (-163%) | 0 (-104%) | 0 (-148%) | 0 (-120%) | 0 (-100%) | N/A | 0 (-100%) |
| West of Chipps | hihi | 6% | 7 (15%) | 5 (-5%) | 5 (-5%) | 6 (5%) | 6 (3%) | 41 (605%) | 5 (-15%) |
| Entrained at Exports | lolo | 98% | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) | 94 (-4%) | 98 (-1%) |
| Entrained at Exports | lomed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 93 (-7%) | 100 (0%) |
| Entrained at Exports | lohi | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 98 (-1%) | 98 (-2%) | 90 (-10%) | 100 (0%) |
| Entrained at Exports | medlo | 99% | 100 (1%) | 98 (0%) | 99 (0%) | 98 (0%) | 99 (0%) | 95 (-4%) | 99 (0%) |
| Entrained at Exports | medmed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 89 (-11%) | 100 (0%) |
| Entrained at Exports | medhi | 95% | 99 (4%) | 99 (4%) | 99 (4%) | 96 (1%) | 96 (1%) | 60 (-37%) | 99 (4%) |
| Entrained at Exports | hilo | 100% | 100 (0%) | 100 (0%) | 100 (0%) | #N/A | #N/A | 100 (0%) | 100 (0%) |
| Entrained at Exports | himed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 93 (-7%) | 100 (0%) |
| Entrained at Exports | hihi | 94% | 92 (-1%) | 94 (1%) | 94 (1%) | 93 (-1%) | 93 (0%) | 49 (-48%) | 95 (1%) |
| Remaining in Delta | lolo | 2% | 2 (23%) | 2 (20%) | 2 (12%) | 2 (16%) | 2 (16%) | 6 (211%) | 2 (27%) |
| Remaining in Delta | lomed | 0% | 0 (26%) | 0 (-44%) | 0 (70%) | 0 (36%) | 0 (44%) | 7 (5091%) | 0 (-39%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-------------|-----------|
| Remaining in Delta | lohi | 0% | 0 (-57%) | 0 (-62%) | 0 (-53%) | 1 (303%) | 1 (375%) | 9 (3244%) | 0 (-51%) |
| Remaining in Delta | medlo | 1% | 0 (-56%) | 2 (34%) | 1 (32%) | 2 (35%) | 1 (28%) | 5 (352%) | 1 (24%) |
| Remaining in Delta | medmed | 0% | 0 (-79%) | 0 (-80%) | 0 (-67%) | 0 (579%) | 0 (543%) | 10 (21570%) | 0 (-81%) |
| Remaining in Delta | medhi | 2% | 0 (-88%) | 0 (-84%) | 0 (-84%) | 2 (-23%) | 2 (-38%) | 20 (695%) | 0 (-85%) |
| Remaining in Delta | hilo | 0% | N/A | N/A | N/A | #N/A | #N/A | N/A | N/A |
| Remaining in Delta | himed | 0% | 0 (-100%) | 0 (-100%) | 0 (-70%) | 0 (392%) | 0 (332%) | 5 (60037%) | 0 (-100%) |
| Remaining in Delta | Hihi | 1% | 1 (55%) | 1 (-25%) | 1 (-25%) | 1 (26%) | 1 (33%) | 10 (1345%) | 1 (-28%) |
| Crossed SJR to South Delta | Lolo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | lomed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | lohi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medlo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medmed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medhi | -3% | 0 (-88%) | -1 (-74%) | -1 (-73%) | -3 (0%) | -2 (-15%) | -26 (819%) | -1 (-73%) |
| Crossed SJR to South Delta | hilo | 0% | N/A | N/A | N/A | #N/A | #N/A | N/A | N/A |
| Crossed SJR to South Delta | himed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | hihi | -6% | -7 (16%) | -6 (-6%) | -6 (-5%) | -6 (6%) | -6 (3%) | -43 (639%) | -5 (-15%) |

Table I.8-41. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|----------|-----------|
| West of Chipps | lolo | 30% | 32 (7%) | 28 (-6%) | 31 (4%) | 33 (12%) | 34 (14%) | 44 (49%) | 28 (-5%) |
| West of Chipps | lomed | 40% | 38 (-6%) | 36 (-11%) | 37 (-7%) | 43 (8%) | 44 (9%) | 53 (32%) | 36 (-12%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lohi | 65% | 59 (-8%) | 57 (-12%) | 57 (-12%) | 61 (-6%) | 62 (-4%) | 68 (5%) | 57 (-12%) |
| West of Chipps | medlo | 32% | 30 (-6%) | 34 (8%) | 35 (9%) | 35 (10%) | 37 (15%) | 56 (77%) | 34 (7%) |
| West of Chipps | medmed | 53% | 39 (-26%) | 48 (-9%) | 49 (-7%) | 59 (13%) | 60 (14%) | 76 (43%) | 48 (-9%) |
| West of Chipps | medhi | 81% | 65 (-20%) | 72 (-12%) | 72 (-11%) | 77 (-5%) | 76 (-7%) | 92 (13%) | 71 (-12%) |
| West of Chipps | hilo | 62% | 41 (-34%) | 69 (10%) | 68 (9%) | #N/A | #N/A | 60 (-4%) | 65 (4%) |
| West of Chipps | himed | 73% | 40 (-45%) | 69 (-5%) | 69 (-4%) | 78 (7%) | 78 (8%) | 83 (14%) | 69 (-5%) |
| West of Chipps | hihi | 93% | 87 (-7%) | 91 (-3%) | 91 (-3%) | 93 (0%) | 93 (0%) | 96 (3%) | 90 (-3%) |
| Entrained at Exports | lolo | 22% | 20 (-12%) | 24 (7%) | 25 (11%) | 27 (20%) | 28 (24%) | 7 (-68%) | 24 (7%) |
| Entrained at Exports | lomed | 25% | 26 (3%) | 25 (-1%) | 25 (0%) | 23 (-8%) | 23 (-7%) | 5 (-79%) | 25 (1%) |
| Entrained at Exports | lohi | 17% | 21 (27%) | 22 (30%) | 21 (27%) | 21 (26%) | 21 (26%) | 9 (-44%) | 22 (30%) |
| Entrained at Exports | medlo | 47% | 49 (3%) | 41 (-13%) | 41 (-13%) | 43 (-9%) | 40 (-14%) | 17 (-65%) | 41 (-12%) |
| Entrained at Exports | medmed | 27% | 43 (58%) | 29 (5%) | 28 (3%) | 22 (-22%) | 21 (-24%) | 4 (-84%) | 30 (8%) |
| Entrained at Exports | medhi | 10% | 22 (119%) | 16 (60%) | 16 (56%) | 14 (35%) | 14 (41%) | 1 (-85%) | 17 (63%) |
| Entrained at Exports | hilo | 31% | 47 (52%) | 27 (-13%) | 27 (-12%) | #N/A | #N/A | 31 (-1%) | 30 (-2%) |
| Entrained at Exports | himed | 21% | 54 (165%) | 22 (8%) | 22 (9%) | 15 (-25%) | 15 (-26%) | 10 (-54%) | 23 (12%) |
| Entrained at Exports | hihi | 5% | 11 (114%) | 7 (43%) | 7 (43%) | 5 (3%) | 5 (7%) | 2 (-54%) | 7 (49%) |
| Remaining in Delta | lolo | 48% | 48 (1%) | 48 (0%) | 44 (-8%) | 40 (-17%) | 38 (-20%) | 49 (1%) | 48 (0%) |
| Remaining in Delta | lomed | 35% | 36 (4%) | 40 (14%) | 38 (8%) | 34 (-3%) | 33 (-6%) | 42 (19%) | 39 (12%) |
| Remaining in Delta | lohi | 18% | 19 (4%) | 21 (14%) | 21 (16%) | 18 (-3%) | 17 (-9%) | 23 (23%) | 21 (14%) |
| Remaining in Delta | medlo | 21% | 22 (2%) | 25 (17%) | 24 (15%) | 22 (4%) | 23 (10%) | 27 (29%) | 25 (17%) |
| Remaining in Delta | medmed | 20% | 18 (-12%) | 23 (15%) | 23 (14%) | 19 (-4%) | 19 (-4%) | 20 (1%) | 23 (14%) |
| Remaining in Delta | medhi | 9% | 13 (45%) | 12 (40%) | 12 (34%) | 9 (5%) | 10 (15%) | 7 (-23%) | 12 (40%) |
| Remaining in Delta | hilo | 7% | 12 (81%) | 5 (-31%) | 5 (-32%) | #N/A | #N/A | 9 (41%) | 5 (-31%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| Remaining in Delta | himed | 7% | 6 (-13%) | 9 (24%) | 8 (21%) | 7 (0%) | 7 (-4%) | 8 (14%) | 8 (20%) |
| Remaining in Delta | hihi | 2% | 2 (26%) | 2 (18%) | 2 (17%) | 2 (-5%) | 2 (3%) | 1 (-31%) | 2 (18%) |
| Crossed SJR to South Delta | lolo | 43% | 41 (-6%) | 44 (2%) | 44 (1%) | 45 (4%) | 45 (5%) | 26 (-40%) | 44 (1%) |
| Crossed SJR to South Delta | lomed | 40% | 41 (2%) | 41 (2%) | 41 (1%) | 38 (-6%) | 38 (-6%) | 20 (-50%) | 42 (3%) |
| Crossed SJR to South Delta | lohi | 24% | 29 (19%) | 30 (23%) | 29 (22%) | 28 (18%) | 28 (15%) | 17 (-28%) | 30 (23%) |
| Crossed SJR to South Delta | medlo | 57% | 58 (3%) | 51 (-9%) | 51 (-10%) | 53 (-6%) | 51 (-10%) | 29 (-49%) | 52 (-9%) |
| Crossed SJR to South Delta | medmed | 37% | 52 (39%) | 39 (6%) | 39 (4%) | 31 (-17%) | 30 (-19%) | 13 (-66%) | 40 (7%) |
| Crossed SJR to South Delta | medhi | 14% | 28 (98%) | 21 (53%) | 21 (49%) | 18 (28%) | 19 (35%) | 4 (-74%) | 22 (56%) |
| Crossed SJR to South Delta | hilo | 35% | 53 (54%) | 29 (-16%) | 30 (-14%) | #N/A | #N/A | 36 (4%) | 32 (-6%) |
| Crossed SJR to South Delta | himed | 24% | 57 (135%) | 27 (9%) | 27 (9%) | 19 (-21%) | 19 (-22%) | 14 (-44%) | 27 (12%) |
| Crossed SJR to South Delta | hihi | 6% | 12 (96%) | 8 (37%) | 8 (37%) | 6 (1%) | 6 (6%) | 3 (-54%) | 9 (42%) |

Table I.8-42. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| West of Chipps | lolo | 51% | 56 (9%) | 51 (0%) | 56 (10%) | 57 (10%) | 58 (12%) | 65 (25%) | 52 (1%) |
| West of Chipps | lomed | 68% | 71 (4%) | 67 (-2%) | 69 (1%) | 71 (4%) | 72 (5%) | 73 (6%) | 67 (-2%) |
| West of Chipps | lohi | 82% | 82 (-1%) | 80 (-3%) | 80 (-3%) | 81 (-2%) | 80 (-2%) | 80 (-3%) | 80 (-3%) |
| West of Chipps | medlo | 62% | 64 (4%) | 65 (6%) | 66 (7%) | 64 (4%) | 67 (9%) | 88 (43%) | 65 (5%) |
| West of Chipps | medmed | 84% | 79 (-6%) | 83 (-1%) | 84 (-1%) | 86 (2%) | 87 (3%) | 93 (10%) | 83 (-1%) |
| West of Chipps | medhi | 94% | 90 (-4%) | 92 (-2%) | 92 (-2%) | 93 (-1%) | 92 (-2%) | 96 (2%) | 91 (-2%) |
| West of Chipps | hilo | 95% | 90 (-5%) | 96 (2%) | 96 (1%) | #N/A | #N/A | 95 (0%) | 96 (1%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | himed | 96% | 88 (-8%) | 96 (-1%) | 96 (-1%) | 97 (1%) | 97 (1%) | 97 (1%) | 96 (-1%) |
| West of Chipps | hihi | 99% | 98 (-1%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) |
| Entrained at Exports | lolo | 7% | 5 (-23%) | 7 (-1%) | 7 (3%) | 9 (30%) | 9 (38%) | 2 (-74%) | 7 (-1%) |
| Entrained at Exports | lomed | 7% | 5 (-21%) | 6 (-16%) | 6 (-16%) | 6 (-10%) | 6 (-7%) | 1 (-84%) | 6 (-15%) |
| Entrained at Exports | lohi | 4% | 5 (11%) | 5 (14%) | 5 (11%) | 5 (26%) | 5 (31%) | 2 (-47%) | 5 (14%) |
| Entrained at Exports | medlo | 16% | 14 (-7%) | 11 (-29%) | 11 (-29%) | 14 (-13%) | 12 (-24%) | 3 (-83%) | 11 (-28%) |
| Entrained at Exports | medmed | 5% | 9 (71%) | 5 (-11%) | 5 (-12%) | 4 (-21%) | 4 (-26%) | 1 (-89%) | 5 (-9%) |
| Entrained at Exports | medhi | 2% | 3 (116%) | 2 (37%) | 2 (34%) | 2 (33%) | 2 (47%) | 0 (-87%) | 2 (43%) |
| Entrained at Exports | hilo | 3% | 6 (105%) | 2 (-27%) | 2 (-24%) | #N/A | #N/A | 3 (-13%) | 3 (-11%) |
| Entrained at Exports | himed | 2% | 8 (343%) | 2 (3%) | 2 (4%) | 1 (-24%) | 1 (-23%) | 1 (-50%) | 2 (6%) |
| Entrained at Exports | hihi | 0% | 1 (134%) | 0 (37%) | 0 (34%) | 0 (5%) | 0 (11%) | 0 (-58%) | 0 (43%) |
| Remaining in Delta | lolo | 42% | 39 (-7%) | 42 (0%) | 37 (-12%) | 35 (-17%) | 33 (-21%) | 34 (-20%) | 42 (-1%) |
| Remaining in Delta | lomed | 25% | 23 (-6%) | 28 (11%) | 25 (1%) | 22 (-9%) | 22 (-12%) | 26 (6%) | 27 (10%) |
| Remaining in Delta | lohi | 14% | 14 (0%) | 16 (13%) | 16 (12%) | 14 (3%) | 15 (5%) | 18 (29%) | 15 (11%) |
| Remaining in Delta | medlo | 23% | 22 (-5%) | 24 (3%) | 23 (1%) | 22 (-3%) | 21 (-7%) | 9 (-59%) | 24 (5%) |
| Remaining in Delta | medmed | 10% | 12 (12%) | 12 (13%) | 12 (11%) | 9 (-9%) | 9 (-12%) | 7 (-35%) | 12 (12%) |
| Remaining in Delta | medhi | 5% | 7 (48%) | 6 (33%) | 6 (27%) | 5 (9%) | 6 (19%) | 4 (-13%) | 6 (34%) |
| Remaining in Delta | hilo | 2% | 4 (87%) | 1 (-38%) | 2 (-29%) | #N/A | #N/A | 3 (18%) | 2 (-29%) |
| Remaining in Delta | himed | 2% | 3 (76%) | 2 (28%) | 2 (27%) | 2 (-5%) | 2 (-11%) | 2 (18%) | 2 (23%) |
| Remaining in Delta | hihi | 1% | 1 (38%) | 1 (25%) | 1 (27%) | 1 (1%) | 1 (5%) | 1 (9%) | 1 (26%) |
| Crossed SJR to South Delta | lolo | 17% | 15 (-17%) | 16 (-8%) | 15 (-11%) | 18 (2%) | 18 (4%) | 9 (-50%) | 16 (-8%) |
| Crossed SJR to South Delta | lomed | 13% | 11 (-17%) | 12 (-10%) | 12 (-12%) | 12 (-9%) | 12 (-9%) | 6 (-53%) | 12 (-9%) |
| Crossed SJR to South Delta | lohi | 7% | 7 (3%) | 8 (10%) | 7 (8%) | 8 (19%) | 8 (21%) | 5 (-25%) | 7 (9%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|----------|-----------|
| Crossed SJR to South Delta | medlo | 22% | 20 (-7%) | 17 (-24%) | 16 (-25%) | 20 (-10%) | 18 (-19%) | 5 (-77%) | 17 (-24%) |
| Crossed SJR to South Delta | medmed | 8% | 12 (50%) | 8 (-7%) | 8 (-8%) | 7 (-18%) | 7 (-21%) | 2 (-77%) | 8 (-6%) |
| Crossed SJR to South Delta | medhi | 2% | 5 (98%) | 3 (36%) | 3 (31%) | 3 (28%) | 3 (42%) | 1 (-76%) | 3 (41%) |
| Crossed SJR to South Delta | hilo | 4% | 8 (103%) | 3 (-29%) | 3 (-25%) | #N/A | #N/A | 4 (-6%) | 3 (-14%) |
| Crossed SJR to South Delta | himed | 2% | 9 (283%) | 2 (4%) | 3 (5%) | 2 (-20%) | 2 (-21%) | 1 (-41%) | 3 (5%) |
| Crossed SJR to South Delta | hihi | 0% | 1 (111%) | 1 (31%) | 1 (28%) | 0 (1%) | 0 (9%) | 0 (-57%) | 1 (35%) |

Table I.8-43. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 10% | 11 (8%) | 9 (-10%) | 11 (2%) | 13 (22%) | 13 (25%) | 19 (84%) | 9 (-9%) |
| West of Chipps | lomed | 17% | 14 (-18%) | 13 (-23%) | 14 (-17%) | 19 (11%) | 20 (14%) | 26 (53%) | 13 (-23%) |
| West of Chipps | lohi | 44% | 37 (-14%) | 35 (-19%) | 35 (-20%) | 40 (-7%) | 43 (-1%) | 46 (5%) | 35 (-19%) |
| West of Chipps | medlo | 13% | 10 (-19%) | 14 (9%) | 14 (10%) | 15 (16%) | 16 (23%) | 29 (125%) | 14 (8%) |
| West of Chipps | medmed | 28% | 16 (-42%) | 23 (-18%) | 24 (-16%) | 36 (28%) | 37 (30%) | 51 (78%) | 23 (-19%) |
| West of Chipps | medhi | 67% | 46 (-32%) | 54 (-20%) | 55 (-18%) | 63 (-6%) | 61 (-10%) | 79 (18%) | 53 (-21%) |
| West of Chipps | hilo | 41% | 17 (-59%) | 49 (17%) | 49 (17%) | #N/A | #N/A | 37 (-10%) | 44 (6%) |
| West of Chipps | himed | 54% | 19 (-65%) | 48 (-10%) | 49 (-9%) | 61 (15%) | 62 (16%) | 68 (27%) | 48 (-11%) |
| West of Chipps | hihi | 88% | 79 (-11%) | 84 (-5%) | 84 (-5%) | 88 (0%) | 88 (-1%) | 93 (5%) | 84 (-5%) |
| Entrained at Exports | lolo | 24% | 21 (-11%) | 27 (14%) | 29 (19%) | 32 (32%) | 34 (40%) | 9 (-63%) | 27 (13%) |
| Entrained at Exports | lomed | 30% | 28 (-5%) | 28 (-4%) | 28 (-4%) | 27 (-9%) | 27 (-7%) | 6 (-79%) | 29 (-2%) |
| Entrained at Exports | lohi | 23% | 29 (24%) | 30 (26%) | 29 (24%) | 29 (23%) | 29 (25%) | 13 (-44%) | 29 (26%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Entrained at Exports | medlo | 62% | 63 (1%) | 55 (-12%) | 55 (-12%) | 57 (-8%) | 53 (-15%) | 18 (-70%) | 55 (-11%) |
| Entrained at Exports | medmed | 36% | 56 (57%) | 37 (4%) | 37 (3%) | 28 (-22%) | 27 (-24%) | 5 (-85%) | 38 (6%) |
| Entrained at Exports | medhi | 15% | 31 (112%) | 23 (53%) | 22 (52%) | 19 (31%) | 20 (36%) | 2 (-84%) | 23 (58%) |
| Entrained at Exports | hilo | 43% | 64 (48%) | 40 (-7%) | 41 (-6%) | #N/A | #N/A | 42 (-3%) | 45 (5%) |
| Entrained at Exports | himed | 31% | 71 (131%) | 33 (6%) | 33 (6%) | 22 (-28%) | 22 (-29%) | 13 (-59%) | 34 (10%) |
| Entrained at Exports | hihi | 8% | 16 (113%) | 11 (43%) | 11 (43%) | 8 (4%) | 8 (8%) | 4 (-53%) | 11 (48%) |
| Remaining in Delta | lolo | 66% | 67 (3%) | 63 (-3%) | 61 (-7%) | 56 (-15%) | 53 (-19%) | 72 (10%) | 63 (-3%) |
| Remaining in Delta | lomed | 53% | 58 (8%) | 59 (10%) | 58 (8%) | 54 (2%) | 53 (0%) | 68 (27%) | 58 (9%) |
| Remaining in Delta | lohi | 33% | 34 (2%) | 35 (7%) | 36 (9%) | 31 (-7%) | 28 (-16%) | 41 (25%) | 35 (6%) |
| Remaining in Delta | medlo | 25% | 27 (7%) | 31 (24%) | 31 (24%) | 28 (11%) | 32 (24%) | 53 (108%) | 31 (22%) |
| Remaining in Delta | medmed | 36% | 27 (-24%) | 39 (10%) | 39 (10%) | 36 (0%) | 36 (0%) | 44 (22%) | 39 (9%) |
| Remaining in Delta | medhi | 18% | 23 (25%) | 24 (30%) | 23 (26%) | 18 (-1%) | 19 (6%) | 18 (2%) | 24 (30%) |
| Remaining in Delta | hilo | 15% | 19 (22%) | 11 (-28%) | 11 (-30%) | #N/A | #N/A | 20 (34%) | 11 (-31%) |
| Remaining in Delta | himed | 16% | 10 (-34%) | 19 (20%) | 19 (19%) | 16 (5%) | 16 (0%) | 19 (22%) | 18 (17%) |
| Remaining in Delta | hihi | 4% | 5 (23%) | 5 (19%) | 5 (20%) | 4 (-4%) | 4 (1%) | 4 (-10%) | 5 (20%) |
| Crossed SJR to South Delta | lolo | 52% | 49 (-6%) | 53 (3%) | 54 (4%) | 55 (7%) | 56 (9%) | 36 (-30%) | 53 (3%) |
| Crossed SJR to South Delta | lomed | 53% | 53 (0%) | 54 (1%) | 54 (1%) | 51 (-5%) | 51 (-4%) | 31 (-42%) | 54 (2%) |
| Crossed SJR to South Delta | lohi | 36% | 41 (15%) | 43 (19%) | 42 (18%) | 41 (13%) | 40 (11%) | 27 (-24%) | 42 (18%) |
| Crossed SJR to South Delta | medlo | 74% | 75 (2%) | 69 (-6%) | 69 (-6%) | 70 (-4%) | 68 (-8%) | 41 (-45%) | 69 (-6%) |
| Crossed SJR to South Delta | medmed | 53% | 69 (31%) | 56 (5%) | 55 (4%) | 44 (-16%) | 44 (-17%) | 21 (-60%) | 56 (6%) |
| Crossed SJR to South Delta | medhi | 22% | 40 (84%) | 32 (46%) | 31 (43%) | 27 (22%) | 28 (28%) | 7 (-67%) | 33 (48%) |
| Crossed SJR to South Delta | hilo | 52% | 73 (41%) | 46 (-11%) | 46 (-11%) | #N/A | #N/A | 54 (3%) | 51 (-2%) |
| Crossed SJR to South Delta | himed | 39% | 76 (93%) | 42 (7%) | 42 (7%) | 31 (-21%) | 31 (-22%) | 22 (-45%) | 43 (10%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| Crossed SJR to South Delta | hihi | 10% | 18 (91%) | 13 (36%) | 13 (36%) | 10 (1%) | 10 (6%) | 5 (-52%) | 13 (40%) |

Table I.8-44. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| West of Chipps | lolo | 24% | 25 (4%) | 23 (-6%) | 25 (5%) | 27 (13%) | 27 (14%) | 29 (23%) | 23 (-4%) |
| West of Chipps | lomed | 35% | 35 (-1%) | 32 (-9%) | 33 (-4%) | 37 (5%) | 37 (7%) | 33 (-4%) | 32 (-8%) |
| West of Chipps | lohi | 41% | 39 (-4%) | 37 (-8%) | 37 (-8%) | 40 (-2%) | 39 (-4%) | 37 (-10%) | 37 (-8%) |
| West of Chipps | medlo | 31% | 31 (0%) | 32 (4%) | 33 (5%) | 33 (6%) | 35 (12%) | 51 (64%) | 32 (2%) |
| West of Chipps | medmed | 50% | 44 (-11%) | 46 (-7%) | 46 (-6%) | 51 (3%) | 51 (4%) | 53 (6%) | 46 (-7%) |
| West of Chipps | medhi | 53% | 48 (-9%) | 49 (-8%) | 50 (-7%) | 53 (-1%) | 52 (-2%) | 53 (-1%) | 49 (-8%) |
| West of Chipps | hilo | 70% | 57 (-18%) | 66 (-6%) | 66 (-6%) | #N/A | #N/A | 65 (-7%) | 66 (-5%) |
| West of Chipps | himed | 68% | 60 (-11%) | 63 (-7%) | 63 (-7%) | 68 (1%) | 68 (1%) | 63 (-7%) | 63 (-7%) |
| West of Chipps | hihi | 68% | 62 (-9%) | 62 (-9%) | 62 (-9%) | 68 (0%) | 68 (0%) | 61 (-10%) | 62 (-9%) |
| Entrained at Exports | lolo | 2% | 2 (-35%) | 2 (-14%) | 2 (-9%) | 3 (32%) | 4 (42%) | 0 (-81%) | 2 (-13%) |
| Entrained at Exports | lomed | 3% | 2 (-33%) | 2 (-27%) | 2 (-27%) | 2 (-11%) | 3 (-9%) | 0 (-90%) | 2 (-26%) |
| Entrained at Exports | lohi | 2% | 2 (-9%) | 2 (-9%) | 2 (-10%) | 2 (19%) | 2 (25%) | 1 (-64%) | 2 (-8%) |
| Entrained at Exports | medlo | 6% | 5 (-21%) | 4 (-39%) | 4 (-39%) | 5 (-13%) | 4 (-28%) | 1 (-86%) | 4 (-39%) |
| Entrained at Exports | medmed | 2% | 3 (55%) | 1 (-25%) | 1 (-27%) | 2 (-22%) | 1 (-26%) | 0 (-93%) | 1 (-25%) |
| Entrained at Exports | medhi | 1% | 1 (77%) | 1 (9%) | 1 (6%) | 1 (31%) | 1 (47%) | 0 (-96%) | 1 (16%) |
| Entrained at Exports | hilo | 1% | 1 (105%) | 0 (-62%) | 0 (-55%) | #N/A | #N/A | 0 (-21%) | 0 (-53%) |
| Entrained at Exports | himed | 0% | 2 (435%) | 0 (-24%) | 0 (-25%) | 0 (-25%) | 0 (-33%) | 0 (-57%) | 0 (-30%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| Entrained at Exports | hihi | 0% | 0 (102%) | 0 (0%) | 0 (1%) | 0 (17%) | 0 (33%) | 0 (-74%) | 0 (9%) |
| Remaining in Delta | lolo | 74% | 73 (0%) | 75 (2%) | 73 (-1%) | 70 (-5%) | 69 (-6%) | 70 (-5%) | 75 (2%) |
| Remaining in Delta | lomed | 62% | 63 (2%) | 66 (6%) | 65 (4%) | 61 (-2%) | 60 (-3%) | 66 (7%) | 66 (6%) |
| Remaining in Delta | lohi | 58% | 59 (3%) | 61 (6%) | 61 (6%) | 58 (1%) | 59 (2%) | 63 (9%) | 61 (6%) |
| Remaining in Delta | medlo | 63% | 64 (2%) | 64 (2%) | 64 (1%) | 62 (-2%) | 61 (-3%) | 48 (-23%) | 64 (3%) |
| Remaining in Delta | medmed | 48% | 53 (9%) | 52 (8%) | 52 (8%) | 47 (-2%) | 47 (-3%) | 47 (-3%) | 52 (8%) |
| Remaining in Delta | medhi | 46% | 51 (10%) | 50 (9%) | 50 (8%) | 46 (1%) | 47 (2%) | 47 (3%) | 50 (9%) |
| Remaining in Delta | hilo | 30% | 42 (41%) | 34 (15%) | 34 (14%) | #N/A | #N/A | 35 (17%) | 34 (14%) |
| Remaining in Delta | himed | 32% | 38 (19%) | 37 (15%) | 37 (15%) | 32 (-1%) | 31 (-2%) | 37 (16%) | 37 (15%) |
| Remaining in Delta | hihi | 32% | 38 (20%) | 38 (19%) | 38 (19%) | 32 (0%) | 32 (1%) | 39 (21%) | 38 (19%) |
| Crossed SJR to South Delta | lolo | 9% | 7 (-23%) | 8 (-16%) | 7 (-20%) | 9 (1%) | 9 (2%) | 4 (-53%) | 8 (-16%) |
| Crossed SJR to South Delta | lomed | 7% | 6 (-24%) | 6 (-16%) | 6 (-20%) | 7 (-8%) | 7 (-9%) | 3 (-57%) | 6 (-16%) |
| Crossed SJR to South Delta | lohi | 4% | 4 (-10%) | 4 (-7%) | 4 (-7%) | 5 (12%) | 5 (15%) | 3 (-35%) | 4 (-7%) |
| Crossed SJR to South Delta | medlo | 11% | 9 (-16%) | 7 (-30%) | 7 (-30%) | 10 (-9%) | 8 (-19%) | 3 (-76%) | 7 (-30%) |
| Crossed SJR to South Delta | medmed | 4% | 6 (28%) | 4 (-17%) | 4 (-18%) | 4 (-16%) | 3 (-19%) | 1 (-76%) | 4 (-16%) |
| Crossed SJR to South Delta | medhi | 1% | 2 (47%) | 2 (9%) | 1 (4%) | 2 (22%) | 2 (32%) | 0 (-73%) | 2 (12%) |
| Crossed SJR to South Delta | hilo | 1% | 2 (66%) | 1 (-58%) | 1 (-52%) | #N/A | #N/A | 1 (-32%) | 1 (-49%) |
| Crossed SJR to South Delta | himed | 1% | 3 (237%) | 1 (-18%) | 1 (-22%) | 1 (-17%) | 1 (-22%) | 0 (-48%) | 1 (-23%) |
| Crossed SJR to South Delta | hihi | 0% | 0 (31%) | 0 (-5%) | 0 (-9%) | 0 (17%) | 0 (22%) | 0 (-54%) | 0 (-9%) |

Table I.8-45. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AIIVA | ALT3 | ALT4 |
|----------------------|----------|------|-----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| West of Chipps | lolo | 86% | 89 (3%) | 86 (0%) | 89 (3%) | 89 (3%) | 90 (4%) | 92 (7%) | 86 (0%) |
| West of Chipps | lomed | 93% | 94 (1%) | 93 (-1%) | 93 (0%) | 94 (1%) | 94 (1%) | 95 (2%) | 93 (-1%) |
| West of Chipps | lohi | 98% | 97 (0%) | 97 (-1%) | 97 (-1%) | 97 (-1%) | 97 (0%) | 98 (0%) | 97 (-1%) |
| West of Chipps | medlo | 91% | 92 (1%) | 92 (1%) | 92 (1%) | 92 (1%) | 93 (2%) | 98 (8%) | 92 (1%) |
| West of Chipps | medmed | 97% | 96 (-1%) | 97 (0%) | 97 (0%) | 98 (0%) | 98 (0%) | 99 (2%) | 97 (0%) |
| West of Chipps | medhi | 99% | 99 (-1%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) |
| West of Chipps | hilo | 99% | 99 (-1%) | 100 (0%) | 100 (0%) | #N/A | #N/A | 100 (0%) | 100 (0%) |
| West of Chipps | himed | 100% | 98 (-2%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| West of Chipps | hihi | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | lolo | 1% | 1 (-44%) | 1 (-26%) | 1 (-24%) | 1 (19%) | 1 (27%) | 0 (-89%) | 1 (-27%) |
| Entrained at Exports | lomed | 1% | 1 (-32%) | 1 (-34%) | 1 (-35%) | 1 (-14%) | 1 (-10%) | 0 (-93%) | 1 (-34%) |
| Entrained at Exports | lohi | 0% | 0 (16%) | 0 (13%) | 0 (6%) | 0 (69%) | 0 (59%) | 0 (-81%) | 0 (10%) |
| Entrained at Exports | medlo | 2% | 2 (-20%) | 1 (-54%) | 1 (-54%) | 2 (-25%) | 1 (-37%) | 0 (-88%) | 1 (-54%) |
| Entrained at Exports | medmed | 0% | 1 (87%) | 0 (-37%) | 0 (-39%) | 0 (-25%) | 0 (-32%) | 0 (-91%) | 0 (-38%) |
| Entrained at Exports | medhi | 0% | 0 (268%) | 0 (53%) | 0 (41%) | 0 (116%) | 0 (179%) | 0 (-98%) | 0 (86%) |
| Entrained at Exports | hilo | 0% | 0 (214%) | 0 (-58%) | 0 (-40%) | #N/A | #N/A | 0 (-73%) | 0 (-49%) |
| Entrained at Exports | himed | 0% | 1 (3400%) | 0 (2%) | 0 (-12%) | 0 (10%) | 0 (6%) | 0 (-16%) | 0 (-16%) |
| Entrained at Exports | hihi | 0% | 0 (325%) | 0 (-62%) | 0 (-54%) | 0 (-38%) | 0 (35%) | 0 (-86%) | 0 (-23%) |
| Remaining in Delta | lolo | 13% | 10 (-17%) | 13 (5%) | 10 (-17%) | 10 (-24%) | 9 (-28%) | 7 (-41%) | 13 (2%) |
| Remaining in Delta | lomed | 6% | 5 (-9%) | 7 (18%) | 6 (2%) | 5 (-15%) | 5 (-18%) | 5 (-20%) | 7 (16%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| Remaining in Delta | lohi | 2% | 2 (14%) | 3 (30%) | 3 (32%) | 2 (15%) | 2 (15%) | 2 (13%) | 3 (30%) |
| Remaining in Delta | medlo | 7% | 7 (-3%) | 7 (2%) | 7 (-1%) | 6 (-11%) | 5 (-19%) | 2 (-76%) | 7 (4%) |
| Remaining in Delta | medmed | 2% | 3 (41%) | 2 (19%) | 2 (16%) | 2 (-12%) | 2 (-16%) | 1 (-51%) | 2 (17%) |
| Remaining in Delta | medhi | 1% | 1 (74%) | 1 (52%) | 1 (43%) | 1 (15%) | 1 (30%) | 1 (-5%) | 1 (52%) |
| Remaining in Delta | hilo | 0% | 1 (73%) | 0 (-48%) | 0 (-65%) | #N/A | #N/A | 0 (-11%) | 0 (-51%) |
| Remaining in Delta | himed | 0% | 1 (342%) | 0 (38%) | 0 (45%) | 0 (-1%) | 0 (-15%) | 0 (24%) | 0 (28%) |
| Remaining in Delta | hihi | 0% | 0 (55%) | 0 (29%) | 0 (31%) | 0 (8%) | 0 (9%) | 0 (2%) | 0 (34%) |
| Crossed SJR to South Delta | lolo | 3% | 2 (-34%) | 2 (-24%) | 2 (-30%) | 3 (-8%) | 3 (-6%) | 1 (-74%) | 2 (-25%) |
| Crossed SJR to South Delta | lomed | 2% | 1 (-25%) | 1 (-21%) | 1 (-25%) | 2 (-13%) | 2 (-12%) | 0 (-76%) | 1 (-21%) |
| Crossed SJR to South Delta | lohi | 0% | 1 (16%) | 1 (17%) | 1 (12%) | 1 (58%) | 1 (48%) | 0 (-58%) | 1 (15%) |
| Crossed SJR to South Delta | medlo | 3% | 3 (-14%) | 2 (-45%) | 2 (-45%) | 3 (-22%) | 2 (-32%) | 1 (-85%) | 2 (-45%) |
| Crossed SJR to South Delta | medmed | 1% | 1 (75%) | 1 (-27%) | 1 (-29%) | 1 (-23%) | 1 (-28%) | 0 (-88%) | 1 (-26%) |
| Crossed SJR to South Delta | medhi | 0% | 0 (270%) | 0 (86%) | 0 (64%) | 0 (108%) | 0 (180%) | 0 (-96%) | 0 (113%) |
| Crossed SJR to South Delta | hilo | 0% | 1 (213%) | 0 (-65%) | 0 (-46%) | #N/A | #N/A | 0 (-72%) | 0 (-54%) |
| Crossed SJR to South Delta | himed | 0% | 1 (3277%) | 0 (7%) | 0 (4%) | 0 (5%) | 0 (8%) | 0 (-9%) | 0 (-13%) |
| Crossed SJR to South Delta | hihi | 0% | 0 (320%) | 0 (-63%) | 0 (-44%) | 0 (-25%) | 0 (52%) | 0 (-89%) | 0 (-31%) |

Table I.8-46. Mean March through June neutrally buoyant particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| West of Chipps | lolo | 67% | 54 (-20%) | 64 (-4%) | 61 (-9%) | 65 (-3%) | 65 (-3%) | 62 (-7%) | 62 (-8%) |
| West of Chipps | lomed | 64% | 57 (-11%) | 63 (-3%) | 62 (-4%) | 64 (-1%) | 63 (-2%) | 62 (-4%) | 62 (-3%) |
| West of Chipps | lohi | 63% | 60 (-5%) | 61 (-3%) | 61 (-4%) | 62 (-1%) | 63 (0%) | 61 (-3%) | 61 (-4%) |
| West of Chipps | medlo | 73% | 57 (-22%) | 73 (-1%) | 74 (1%) | 76 (4%) | 72 (-2%) | 70 (-5%) | 73 (0%) |
| West of Chipps | medmed | 73% | 67 (-8%) | 71 (-3%) | 71 (-3%) | 74 (1%) | 74 (1%) | 76 (4%) | 71 (-3%) |
| West of Chipps | medhi | 77% | 72 (-7%) | 75 (-4%) | 75 (-3%) | 77 (-1%) | 75 (-3%) | 80 (4%) | 75 (-4%) |
| West of Chipps | hilo | 93% | 87 (-6%) | 95 (2%) | 95 (3%) | #N/A | #N/A | 92 (0%) | 95 (3%) |
| West of Chipps | himed | 94% | 91 (-3%) | 93 (-1%) | 93 (-1%) | 94 (0%) | 95 (1%) | 94 (0%) | 94 (0%) |
| West of Chipps | hihi | 97% | 96 (-1%) | 97 (0%) | 97 (0%) | 97 (0%) | 97 (0%) | 97 (0%) | 97 (0%) |
| Entrained at Exports | lolo | 0% | 0 (-66%) | 0 (-39%) | 0 (-45%) | 0 (27%) | 0 (39%) | 0 (-91%) | 0 (-58%) |
| Entrained at Exports | lomed | 0% | 0 (-84%) | 0 (-69%) | 0 (-59%) | 0 (-29%) | 0 (-24%) | 0 (-98%) | 0 (-66%) |
| Entrained at Exports | lohi | 0% | 0 (-38%) | 0 (-25%) | 0 (-69%) | 0 (66%) | 0 (118%) | 0 (-53%) | 0 (-89%) |
| Entrained at Exports | medlo | 0% | 0 (-63%) | 0 (-49%) | 0 (-57%) | 0 (10%) | 0 (-37%) | 0 (-100%) | 0 (-59%) |
| Entrained at Exports | medmed | 0% | 0 (-19%) | 0 (-97%) | 0 (-64%) | 0 (-45%) | 0 (-57%) | 0 (-100%) | 0 (-67%) |
| Entrained at Exports | medhi | 0% | 0 (88%) | 0 (-100%) | 0 (104%) | 0 (309%) | 0 (452%) | 0 (-100%) | 0 (194%) |
| Entrained at Exports | hilo | 0% | N/A | N/A | N/A | #N/A | #N/A | N/A | N/A |
| Entrained at Exports | himed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Entrained at Exports | hihi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Remaining in Delta | lolo | 33% | 46 (41%) | 36 (8%) | 39 (18%) | 35 (6%) | 35 (6%) | 38 (15%) | 38 (17%) |
| Remaining in Delta | lomed | 36% | 43 (20%) | 37 (5%) | 38 (7%) | 36 (2%) | 37 (3%) | 38 (7%) | 38 (5%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lohi | 37% | 40 (9%) | 39 (6%) | 39 (6%) | 38 (2%) | 37 (0%) | 39 (5%) | 39 (6%) |
| Remaining in Delta | medlo | 27% | 43 (59%) | 27 (2%) | 26 (-2%) | 24 (-10%) | 28 (5%) | 30 (13%) | 27 (0%) |
| Remaining in Delta | medmed | 27% | 33 (23%) | 29 (8%) | 29 (7%) | 26 (-3%) | 26 (-3%) | 24 (-10%) | 29 (8%) |
| Remaining in Delta | medhi | 23% | 28 (23%) | 25 (13%) | 25 (11%) | 23 (4%) | 25 (10%) | 20 (-13%) | 25 (13%) |
| Remaining in Delta | hilo | 7% | 13 (71%) | 5 (-31%) | 5 (-37%) | #N/A | #N/A | 8 (3%) | 5 (-34%) |
| Remaining in Delta | himed | 6% | 9 (47%) | 7 (12%) | 7 (18%) | 6 (-5%) | 5 (-11%) | 6 (0%) | 6 (3%) |
| Remaining in Delta | hihi | 3% | 4 (24%) | 3 (16%) | 3 (16%) | 3 (4%) | 3 (8%) | 3 (2%) | 3 (16%) |
| Crossed SJR to South Delta | lolo | 0% | 0 (-61%) | 0 (-44%) | 0 (-59%) | 0 (-23%) | 0 (-31%) | 0 (-83%) | 0 (-44%) |
| Crossed SJR to South Delta | lomed | 0% | 0 (-65%) | 0 (-52%) | 0 (-52%) | 0 (-19%) | 0 (-26%) | 0 (-79%) | 0 (-48%) |
| Crossed SJR to South Delta | lohi | 0% | 0 (-55%) | 0 (-40%) | 0 (-37%) | 0 (29%) | 0 (56%) | 0 (-27%) | 0 (-45%) |
| Crossed SJR to South Delta | medlo | 0% | 0 (-46%) | 0 (-46%) | 0 (-48%) | 0 (-12%) | 0 (-27%) | 0 (-97%) | 0 (-52%) |
| Crossed SJR to South Delta | medmed | 0% | 0 (-9%) | 0 (-53%) | 0 (-39%) | 0 (-9%) | 0 (-21%) | 0 (-92%) | 0 (-37%) |
| Crossed SJR to South Delta | medhi | 0% | 0 (10%) | 0 (-50%) | 0 (-40%) | 0 (36%) | 0 (30%) | 0 (-79%) | 0 (-27%) |
| Crossed SJR to South Delta | hilo | 0% | N/A | N/A | N/A | #N/A | #N/A | N/A | N/A |
| Crossed SJR to South Delta | himed | 0% | 0 (-50%) | 0 (-100%) | 0 (-100%) | 0 (-55%) | 0 (-100%) | 0 (-100%) | 0 (-100%) |
| Crossed SJR to South Delta | hihi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1.8.4.3.6 Surface Oriented, Inflow Bins [EIS, Table I.8-47 through Table I.8-55]

Table I.8-47. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 0% | 0 (-31%) | 1 (3%) | 1 (29%) | 1 (6%) | 1 (5%) | 2 (302%) | 0 (-5%) |
| West of Chipps | lomed | 1% | 1 (116%) | 1 (27%) | 1 (88%) | 2 (328%) | 2 (361%) | 5 (895%) | 0 (-8%) |
| West of Chipps | lohi | 1% | 2 (59%) | 3 (135%) | 4 (199%) | 2 (21%) | 2 (23%) | 13 (800%) | 12 (753%) |
| West of Chipps | medlo | 0% | 0 (-82%) | 1 (8%) | 1 (27%) | 1 (26%) | 1 (15%) | 5 (1021%) | 1 (13%) |
| West of Chipps | medmed | 2% | 0 (-83%) | 2 (-1%) | 2 (16%) | 5 (166%) | 5 (182%) | 16 (851%) | 1 (-17%) |
| West of Chipps | medhi | 13% | 5 (-64%) | 12 (-7%) | 12 (-7%) | 19 (41%) | 19 (44%) | 58 (339%) | 10 (-26%) |
| West of Chipps | hilo | 2% | 1 (-23%) | 2 (12%) | 2 (12%) | 2 (13%) | 2 (-14%) | 8 (339%) | 2 (11%) |
| West of Chipps | himed | 6% | 0 (-92%) | 6 (1%) | 6 (0%) | 8 (31%) | 8 (33%) | 17 (188%) | 6 (1%) |
| West of Chipps | hihi | 39% | 30 (-22%) | 37 (-3%) | 38 (-3%) | 40 (3%) | 39 (2%) | 52 (34%) | 37 (-5%) |
| Entrained at Exports | lolo | 78% | 84 (7%) | 78 (1%) | 77 (-1%) | 77 (-1%) | 77 (-1%) | 63 (-19%) | 79 (2%) |
| Entrained at Exports | lomed | 84% | 81 (-3%) | 80 (-5%) | 80 (-5%) | 71 (-15%) | 71 (-15%) | 62 (-26%) | 82 (-2%) |
| Entrained at Exports | lohi | 86% | 90 (4%) | 80 (-8%) | 76 (-11%) | 85 (-1%) | 84 (-2%) | 50 (-42%) | 54 (-37%) |
| Entrained at Exports | medlo | 90% | 88 (-2%) | 88 (-2%) | 88 (-2%) | 88 (-2%) | 87 (-3%) | 64 (-28%) | 90 (0%) |
| Entrained at Exports | medmed | 88% | 96 (8%) | 88 (0%) | 87 (-1%) | 78 (-12%) | 78 (-12%) | 57 (-36%) | 89 (1%) |
| Entrained at Exports | medhi | 79% | 92 (16%) | 81 (2%) | 81 (2%) | 71 (-10%) | 71 (-10%) | 27 (-66%) | 84 (6%) |
| Entrained at Exports | hilo | 91% | 91 (0%) | 91 (-1%) | 91 (-1%) | 91 (-1%) | 91 (0%) | 79 (-14%) | 91 (0%) |
| Entrained at Exports | himed | 89% | 99 (10%) | 89 (0%) | 89 (0%) | 85 (-5%) | 85 (-5%) | 71 (-21%) | 89 (0%) |
| Entrained at Exports | hihi | 59% | 69 (16%) | 61 (2%) | 61 (2%) | 58 (-2%) | 58 (-2%) | 46 (-23%) | 62 (4%) |
| Remaining in Delta | lolo | 22% | 16 (-26%) | 21 (-3%) | 23 (4%) | 22 (2%) | 22 (3%) | 35 (63%) | 20 (-7%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lomed | 16% | 18 (12%) | 20 (24%) | 20 (24%) | 27 (69%) | 27 (69%) | 33 (107%) | 17 (9%) |
| Remaining in Delta | lohi | 12% | 8 (-34%) | 17 (38%) | 19 (58%) | 13 (5%) | 14 (13%) | 37 (205%) | 34 (177%) |
| Remaining in Delta | medlo | 10% | 12 (19%) | 12 (22%) | 12 (21%) | 12 (21%) | 12 (23%) | 30 (211%) | 10 (-2%) |
| Remaining in Delta | medmed | 10% | 4 (-59%) | 10 (0%) | 11 (9%) | 17 (75%) | 17 (73%) | 27 (171%) | 9 (-8%) |
| Remaining in Delta | medhi | 8% | 4 (-52%) | 7 (-11%) | 7 (-9%) | 10 (35%) | 10 (29%) | 15 (100%) | 6 (-19%) |
| Remaining in Delta | hilo | 7% | 8 (12%) | 7 (5%) | 7 (6%) | 7 (5%) | 7 (5%) | 13 (93%) | 7 (-3%) |
| Remaining in Delta | himed | 5% | 1 (-80%) | 5 (7%) | 5 (8%) | 7 (46%) | 7 (44%) | 12 (151%) | 5 (-6%) |
| Remaining in Delta | hihi | 2% | 1 (-47%) | 2 (-11%) | 2 (-12%) | 2 (11%) | 2 (14%) | 3 (24%) | 2 (-14%) |
| Crossed SJR to South Delta | lolo | 51% | 53 (4%) | 51 (1%) | 50 (-1%) | 50 (-1%) | 50 (-1%) | 46 (-10%) | 51 (1%) |
| Crossed SJR to South Delta | lomed | 56% | 55 (-2%) | 55 (-3%) | 55 (-3%) | 51 (-10%) | 51 (-10%) | 46 (-19%) | 56 (-1%) |
| Crossed SJR to South Delta | lohi | 61% | 62 (2%) | 57 (-7%) | 54 (-11%) | 60 (-1%) | 60 (-2%) | 37 (-39%) | 37 (-39%) |
| Crossed SJR to South Delta | medlo | 54% | 47 (-13%) | 54 (-1%) | 54 (-1%) | 54 (-1%) | 54 (-1%) | 45 (-16%) | 55 (2%) |
| Crossed SJR to South Delta | medmed | 59% | 61 (3%) | 60 (0%) | 59 (-1%) | 54 (-9%) | 54 (-9%) | 40 (-33%) | 60 (1%) |
| Crossed SJR to South Delta | medhi | 55% | 64 (17%) | 56 (2%) | 56 (2%) | 48 (-12%) | 48 (-12%) | 7 (-87%) | 59 (7%) |
| Crossed SJR to South Delta | hilo | 56% | 47 (-17%) | 56 (-1%) | 56 (-1%) | 56 (-1%) | 56 (0%) | 50 (-12%) | 57 (0%) |
| Crossed SJR to South Delta | himed | 57% | 61 (7%) | 57 (0%) | 57 (0%) | 55 (-4%) | 55 (-4%) | 44 (-22%) | 57 (0%) |
| Crossed SJR to South Delta | hihi | 32% | 41 (26%) | 33 (4%) | 33 (3%) | 31 (-3%) | 31 (-3%) | 19 (-41%) | 34 (7%) |

Table I.8-48. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2 wTUCP woVA | Alt2 woTUCP woVA | Alt2 woTUCP DeltaVA | Alt2 woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|----------|-----------------------|------------------------|---------------------------|-------------------------|-----------|-----------|
| West of Chipps | lolo | 6% | 6 (9%) | 6 (2%) | 6 (12%) | 6 (2%) | 6 (3%) | 12 (119%) | 5 (-2%) |
| West of Chipps | lomed | 5% | 7 (28%) | 6 (11%) | 7 (32%) | 10 (83%) | 10 (88%) | 14 (162%) | 5 (-2%) |
| West of Chipps | lohi | 4% | 4 (6%) | 5 (24%) | 6 (55%) | 4 (1%) | 4 (9%) | 12 (216%) | 14 (261%) |
| West of Chipps | medlo | 5% | 2 (-53%) | 5 (8%) | 5 (12%) | 5 (9%) | 5 (8%) | 17 (259%) | 5 (8%) |
| West of Chipps | medmed | 7% | 3 (-52%) | 7 (3%) | 8 (9%) | 10 (45%) | 11 (46%) | 24 (231%) | 7 (-2%) |
| West of Chipps | medhi | 11% | 6 (-41%) | 11 (-1%) | 11 (-1%) | 13 (25%) | 13 (25%) | 50 (364%) | 10 (-11%) |
| West of Chipps | hilo | 8% | 2 (-74%) | 8 (1%) | 8 (2%) | 8 (1%) | 8 (-1%) | 16 (99%) | 8 (3%) |
| West of Chipps | himed | 10% | 3 (-66%) | 10 (2%) | 10 (2%) | 11 (11%) | 11 (11%) | 20 (101%) | 10 (0%) |
| West of Chipps | hihi | 26% | 24 (-9%) | 26 (-2%) | 26 (-2%) | 27 (2%) | 27 (2%) | 46 (73%) | 25 (-5%) |
| Entrained at Exports | lolo | 86% | 89 (3%) | 87 (1%) | 86 (0%) | 86 (0%) | 86 (0%) | 75 (-13%) | 86 (1%) |
| Entrained at Exports | lomed | 89% | 87 (-2%) | 87 (-2%) | 85 (-5%) | 82 (-9%) | 82 (-9%) | 74 (-18%) | 89 (-1%) |
| Entrained at Exports | lohi | 92% | 92 (1%) | 88 (-4%) | 86 (-6%) | 91 (0%) | 91 (-1%) | 73 (-21%) | 69 (-24%) |
| Entrained at Exports | medlo | 92% | 96 (4%) | 91 (-1%) | 91 (-1%) | 91 (-1%) | 91 (-1%) | 70 (-24%) | 92 (-1%) |
| Entrained at Exports | medmed | 90% | 95 (5%) | 90 (0%) | 89 (-1%) | 85 (-5%) | 85 (-5%) | 61 (-32%) | 90 (0%) |
| Entrained at Exports | medhi | 87% | 93 (6%) | 88 (0%) | 88 (0%) | 84 (-4%) | 84 (-4%) | 37 (-58%) | 89 (2%) |
| Entrained at Exports | hilo | 90% | 97 (8%) | 89 (0%) | 90 (0%) | 89 (0%) | 89 (0%) | 78 (-13%) | 89 (-1%) |
| Entrained at Exports | himed | 88% | 96 (9%) | 88 (0%) | 88 (0%) | 87 (-2%) | 87 (-2%) | 74 (-16%) | 88 (0%) |
| Entrained at Exports | hihi | 72% | 75 (4%) | 73 (1%) | 72 (1%) | 71 (-1%) | 71 (-1%) | 51 (-29%) | 73 (2%) |
| Remaining in Delta | lolo | 9% | 5 (-37%) | 8 (-9%) | 8 (-5%) | 8 (-4%) | 8 (-3%) | 13 (54%) | 8 (-5%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2 wTUCP woVA | Alt2 woTUCP woVA | Alt2 woTUCP DeltaVA | Alt2 woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|------|-----------|-----------------------|------------------------|---------------------------|-------------------------|------------|------------|
| Remaining in Delta | lomed | 5% | 6 (10%) | 7 (31%) | 8 (46%) | 8 (63%) | 8 (61%) | 12 (138%) | 6 (11%) |
| Remaining in Delta | lohi | 5% | 4 (-19%) | 7 (63%) | 8 (82%) | 5 (8%) | 5 (7%) | 15 (229%) | 17 (266%) |
| Remaining in Delta | medlo | 3% | 2 (-31%) | 3 (19%) | 3 (17%) | 3 (16%) | 3 (19%) | 12 (336%) | 3 (7%) |
| Remaining in Delta | medmed | 3% | 2 (-36%) | 3 (0%) | 3 (11%) | 4 (51%) | 4 (47%) | 15 (433%) | 3 (-4%) |
| Remaining in Delta | medhi | 2% | 1 (-36%) | 2 (-6%) | 2 (-8%) | 3 (36%) | 3 (35%) | 14 (635%) | 2 (-13%) |
| Remaining in Delta | hilo | 2% | 1 (-53%) | 2 (10%) | 2 (4%) | 3 (16%) | 3 (17%) | 6 (148%) | 2 (12%) |
| Remaining in Delta | himed | 2% | 1 (-50%) | 2 (-2%) | 2 (-1%) | 2 (17%) | 2 (16%) | 6 (225%) | 2 (-5%) |
| Remaining in Delta | hihi | 2% | 1 (-17%) | 2 (-5%) | 2 (-5%) | 2 (9%) | 2 (10%) | 4 (111%) | 2 (-2%) |
| Crossed SJR to South Delta | lolo | -9% | -8 (-14%) | -9 (-1%) | -10 (5%) | -9 (0%) | -10 (2%) | -17 (82%) | -9 (-3%) |
| Crossed SJR to South Delta | lomed | -8% | -9 (17%) | -9 (18%) | -11 (34%) | -14 (71%) | -14 (72%) | -19 (132%) | -8 (2%) |
| Crossed SJR to South Delta | lohi | -6% | -6 (-4%) | -10 (61%) | -11 (89%) | -6 (2%) | -6 (6%) | -20 (244%) | -24 (304%) |
| Crossed SJR to South Delta | medlo | -6% | -3 (-52%) | -6 (12%) | -6 (13%) | -6 (9%) | -6 (10%) | -21 (262%) | -6 (8%) |
| Crossed SJR to South Delta | medmed | -8% | -4 (-51%) | -8 (2%) | -9 (8%) | -12 (43%) | -12 (44%) | -27 (235%) | -8 (-3%) |
| Crossed SJR to South Delta | medhi | -11% | -7 (-41%) | -11 (-1%) | -11 (-1%) | -14 (25%) | -14 (25%) | -54 (386%) | -10 (-10%) |
| Crossed SJR to South Delta | hilo | -8% | -2 (-73%) | -8 (1%) | -8 (2%) | -8 (1%) | -8 (0%) | -17 (101%) | -9 (3%) |
| Crossed SJR to South Delta | himed | -10% | -4 (-65%) | -11 (2%) | -11 (2%) | -12 (12%) | -12 (11%) | -22 (107%) | -10 (0%) |
| Crossed SJR to South Delta | hihi | -27% | -24 (-9%) | -26 (-2%) | -26 (-2%) | -27 (2%) | -27 (2%) | -47 (75%) | -25 (-5%) |

Table I.8-49. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|------|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 0% | 0 (-100%) | 0 (-1%) | 0 (-2%) | 0 (9%) | 0 (-100%) | 0 (-24%) | 0 (-32%) |
| West of Chipps | lomed | 0% | N/A | 0 (22%) | N/A | N/A | N/A | N/A | 0 (-74%) |
| West of Chipps | lohi | 0% | 0 (23%) | 0 (-100%) | 0 (-174%) | 0 (-50%) | 0 (0%) | 0 (-198%) | 0 (-199%) |
| West of Chipps | medlo | 0% | 0 (-158%) | 0 (-82%) | 0 (58%) | 0 (-37%) | 0 (33%) | N/A | 0 (-77%) |
| West of Chipps | medmed | 0% | 0 (-61%) | 0 (-94%) | 0 (-86%) | 0 (124%) | 0 (-67%) | N/A | 0 (-221%) |
| West of Chipps | medhi | 0% | 0 (-293%) | 0 (127%) | 0 (-179%) | 0 (-165%) | 0 (27%) | N/A | 0 (-38%) |
| West of Chipps | hilo | 0% | 0 (559%) | 0 (-1165%) | 0 (-1071%) | 0 (-1121%) | 0 (-419%) | N/A | 0 (484%) |
| West of Chipps | himed | 0% | 0 (731%) | 0 (1280%) | 0 (1666%) | 0 (666%) | 0 (-1098%) | N/A | 0 (44%) |
| West of Chipps | hihi | 5% | 5 (15%) | 4 (-5%) | 4 (-5%) | 4 (-5%) | 4 (-7%) | 20 (351%) | 4 (-13%) |
| Entrained at Exports | lolo | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | lomed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 96 (-4%) | 100 (0%) |
| Entrained at Exports | lohi | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|----------|
| Entrained at Exports | medlo | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 98 (-2%) | 100 (0%) |
| Entrained at Exports | medmed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 96 (-4%) | 100 (0%) |
| Entrained at Exports | medhi | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 73 (-27%) | 100 (0%) |
| Entrained at Exports | hilo | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 99 (-1%) | 100 (0%) |
| Entrained at Exports | himed | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 97 (-3%) | 100 (0%) |
| Entrained at Exports | hihi | 95% | 95 (-1%) | 96 (0%) | 96 (0%) | 96 (0%) | 96 (0%) | 77 (-19%) | 96 (1%) |
| Remaining in Delta | lolo | 0% | 0 (-94%) | 0 (-41%) | 0 (-28%) | 0 (-33%) | 0 (-77%) | 0 (-13%) | 0 (-34%) |
| Remaining in Delta | lomed | 0% | N/A | 0 (150%) | N/A | N/A | N/A | N/A | 0 (67%) |
| Remaining in Delta | lohi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Remaining in Delta | medlo | 0% | 0 (-100%) | 0 (478%) | 0 (656%) | 0 (983%) | 0 (900%) | N/A | 0 (225%) |
| Remaining in Delta | medmed | 0% | 0 (10%) | N/A | N/A | N/A | N/A | N/A | N/A |
| Remaining in Delta | medhi | 0% | 0 (-82%) | 0 (-100%) | 0 (-80%) | 0 (120%) | 0 (0%) | N/A | 0 (-80%) |
| Remaining in Delta | hilo | 0% | 0 (224%) | 0 (0%) | 0 (5%) | 0 (-43%) | 0 (-24%) | N/A | 0 (-14%) |
| Remaining in Delta | himed | 0% | 0 (-42%) | 0 (-1%) | 0 (16%) | N/A | N/A | N/A | 0 (-31%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|----------------|-----------------|--------------------|------------------|-----------|----------|
| Remaining in Delta | hihi | 0% | 0 (59%) | 0 (-5%) | 0 (-5%) | 0 (10%) | 0 (19%) | 2 (1088%) | 0 (-1%) |
| Crossed SJR to South Delta | lolo | 0% | 0 (-100%) | 0 (-11%) | 0 (-15%) | 0 (-22%) | 0 (-100%) | 0 (-68%) | 0 (-46%) |
| Crossed SJR to South Delta | lomed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | lohi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medlo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medmed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | medhi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | hilo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|----------|-------------------|--------------------|-----------------------|---------------------|------------|-----------|
| Crossed SJR to South Delta | himed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | hihi | -5% | -5 (15%) | -4 (-5%) | -4 (-5%) | -4 (-5%) | -4 (-6%) | -21 (360%) | -4 (-13%) |

Table I.8-50. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 31% | 36 (14%) | 33 (4%) | 35 (12%) | 43 (38%) | 44 (40%) | 54 (72%) | 30 (-4%) |
| West of Chipps | lomed | 25% | 30 (19%) | 28 (12%) | 31 (23%) | 26 (2%) | 26 (4%) | 50 (97%) | 51 (101%) |
| West of Chipps | lohi | 33% | 21 (-35%) | 33 (2%) | 34 (4%) | 34 (3%) | 33 (2%) | 61 (87%) | 35 (6%) |
| West of Chipps | medlo | 46% | 29 (-35%) | 46 (1%) | 47 (3%) | 54 (18%) | 54 (19%) | 70 (54%) | 45 (-1%) |
| West of Chipps | medmed | 67% | 51 (-24%) | 67 (-1%) | 67 (-1%) | 72 (8%) | 73 (8%) | 94 (40%) | 64 (-5%) |
| West of Chipps | medhi | 56% | 23 (-58%) | 55 (-1%) | 55 (-1%) | 55 (-2%) | 55 (-2%) | 68 (22%) | 56 (0%) |
| West of Chipps | hilo | 68% | 38 (-44%) | 69 (0%) | 69 (0%) | 70 (3%) | 70 (3%) | 76 (11%) | 68 (0%) |
| West of Chipps | himed | 89% | 78 (-12%) | 88 (0%) | 88 (0%) | 89 (1%) | 89 (0%) | 91 (3%) | 88 (-1%) |
| West of Chipps | hihi | 46% | 49 (7%) | 46 (0%) | 44 (-3%) | 46 (0%) | 45 (-2%) | 23 (-49%) | 48 (4%) |
| Entrained at Exports | Lolo | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Entrained at Exports | lomed | 43% | 42 (-4%) | 38 (-13%) | 38 (-13%) | 29 (-33%) | 29 (-33%) | 25 (-43%) | 43 (-2%) |
| Entrained at Exports | lohi | 49% | 49 (0%) | 36 (-27%) | 31 (-36%) | 48 (-3%) | 47 (-5%) | 10 (-80%) | 11 (-77%) |
| Entrained at Exports | medlo | 56% | 71 (27%) | 53 (-4%) | 53 (-4%) | 54 (-4%) | 54 (-4%) | 22 (-61%) | 53 (-5%) |
| Entrained at Exports | medmed | 42% | 62 (48%) | 41 (-1%) | 40 (-3%) | 33 (-22%) | 33 (-22%) | 16 (-61%) | 42 (2%) |
| Entrained at Exports | medhi | 26% | 43 (64%) | 27 (3%) | 27 (2%) | 21 (-19%) | 21 (-19%) | 2 (-94%) | 30 (14%) |
| Entrained at Exports | hilo | 39% | 74 (90%) | 39 (0%) | 39 (0%) | 39 (1%) | 40 (2%) | 26 (-33%) | 38 (-1%) |
| Entrained at Exports | himed | 28% | 59 (114%) | 27 (-2%) | 27 (-1%) | 25 (-8%) | 25 (-8%) | 19 (-31%) | 28 (1%) |
| Entrained at Exports | hihi | 10% | 21 (101%) | 11 (3%) | 11 (3%) | 10 (-6%) | 10 (-4%) | 8 (-25%) | 11 (10%) |
| Remaining in Delta | lolo | 27% | 19 (-29%) | 26 (-3%) | 27 (-1%) | 27 (-1%) | 28 (2%) | 32 (16%) | 26 (-5%) |
| Remaining in Delta | lomed | 25% | 22 (-12%) | 29 (17%) | 27 (8%) | 28 (10%) | 27 (7%) | 21 (-16%) | 27 (8%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lohi | 26% | 21 (-19%) | 36 (40%) | 37 (46%) | 27 (4%) | 27 (6%) | 40 (58%) | 38 (49%) |
| Remaining in Delta | medlo | 12% | 8 (-30%) | 13 (13%) | 13 (10%) | 13 (8%) | 13 (13%) | 17 (46%) | 12 (6%) |
| Remaining in Delta | medmed | 13% | 9 (-31%) | 13 (-1%) | 13 (0%) | 14 (7%) | 13 (4%) | 13 (6%) | 13 (-1%) |
| Remaining in Delta | medhi | 6% | 6 (-10%) | 6 (-3%) | 6 (-4%) | 6 (-3%) | 6 (-6%) | 4 (-37%) | 6 (-1%) |
| Remaining in Delta | hilo | 5% | 3 (-51%) | 6 (4%) | 6 (3%) | 6 (8%) | 6 (9%) | 6 (9%) | 6 (5%) |
| Remaining in Delta | himed | 4% | 3 (-30%) | 4 (6%) | 4 (6%) | 4 (9%) | 4 (7%) | 5 (21%) | 4 (2%) |
| Remaining in Delta | hihi | 1% | 1 (-3%) | 1 (-7%) | 1 (-6%) | 1 (-2%) | 1 (3%) | 1 (-20%) | 1 (-1%) |
| Crossed SJR to South Delta | lolo | 57% | 58 (2%) | 57 (0%) | 55 (-3%) | 57 (0%) | 56 (-1%) | 37 (-35%) | 58 (2%) |
| Crossed SJR to South Delta | lomed | 54% | 52 (-4%) | 50 (-8%) | 48 (-10%) | 40 (-25%) | 40 (-25%) | 34 (-37%) | 54 (0%) |
| Crossed SJR to South Delta | lohi | 60% | 58 (-4%) | 46 (-23%) | 42 (-31%) | 59 (-2%) | 58 (-3%) | 20 (-66%) | 19 (-68%) |
| Crossed SJR to South Delta | medlo | 61% | 75 (22%) | 60 (-3%) | 59 (-3%) | 60 (-2%) | 60 (-2%) | 30 (-51%) | 59 (-4%) |
| Crossed SJR to South Delta | medmed | 48% | 66 (39%) | 47 (-1%) | 47 (-3%) | 39 (-18%) | 39 (-18%) | 23 (-52%) | 48 (1%) |
| Crossed SJR to South Delta | medhi | 30% | 46 (56%) | 30 (1%) | 30 (1%) | 25 (-17%) | 25 (-17%) | 4 (-88%) | 33 (12%) |
| Crossed SJR to South Delta | hilo | 42% | 76 (80%) | 42 (1%) | 42 (1%) | 43 (2%) | 43 (2%) | 30 (-30%) | 42 (-1%) |
| Crossed SJR to South Delta | himed | 30% | 61 (103%) | 30 (-1%) | 30 (-1%) | 28 (-7%) | 28 (-7%) | 22 (-27%) | 30 (1%) |
| Crossed SJR to South Delta | hihi | 11% | 21 (93%) | 11 (2%) | 11 (3%) | 10 (-6%) | 11 (-4%) | 8 (-25%) | 12 (9%) |

Table I.8-51. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 58% | 59 (2%) | 59 (2%) | 60 (3%) | 58 (0%) | 58 (0%) | 73 (26%) | 58 (0%) |
| West of Chipps | lomed | 68% | 69 (2%) | 67 (-1%) | 69 (2%) | 75 (10%) | 75 (11%) | 81 (21%) | 65 (-3%) |
| West of Chipps | lohi | 50% | 52 (5%) | 46 (-9%) | 48 (-4%) | 51 (1%) | 51 (3%) | 62 (24%) | 65 (29%) |
| West of Chipps | medlo | 76% | 63 (-17%) | 76 (0%) | 76 (0%) | 77 (1%) | 76 (-1%) | 89 (17%) | 78 (3%) |
| West of Chipps | medmed | 84% | 75 (-10%) | 85 (0%) | 85 (1%) | 87 (3%) | 87 (3%) | 92 (10%) | 85 (1%) |
| West of Chipps | medhi | 94% | 90 (-4%) | 94 (0%) | 93 (0%) | 94 (1%) | 94 (1%) | 98 (5%) | 93 (-1%) |
| West of Chipps | hilo | 93% | 79 (-15%) | 93 (0%) | 93 (0%) | 92 (-1%) | 92 (-1%) | 95 (2%) | 93 (0%) |
| West of Chipps | himed | 96% | 88 (-8%) | 96 (0%) | 96 (0%) | 96 (0%) | 96 (0%) | 97 (1%) | 96 (0%) |
| West of Chipps | hihi | 99% | 98 (-1%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) |
| Entrained at Exports | lolo | 15% | 21 (35%) | 15 (-3%) | 14 (-6%) | 15 (-1%) | 15 (-3%) | 6 (-61%) | 16 (4%) |
| Entrained at Exports | lomed | 11% | 14 (26%) | 9 (-15%) | 9 (-15%) | 7 (-36%) | 7 (-36%) | 7 (-40%) | 12 (6%) |
| Entrained at Exports | lohi | 16% | 19 (18%) | 12 (-27%) | 10 (-37%) | 15 (-7%) | 15 (-8%) | 3 (-84%) | 3 (-79%) |
| Entrained at Exports | medlo | 15% | 28 (90%) | 14 (-4%) | 14 (-3%) | 14 (-4%) | 14 (-3%) | 4 (-72%) | 12 (-16%) |
| Entrained at Exports | medmed | 8% | 17 (104%) | 8 (-2%) | 8 (-3%) | 7 (-20%) | 7 (-21%) | 3 (-70%) | 8 (-6%) |
| Entrained at Exports | medhi | 3% | 7 (107%) | 4 (2%) | 4 (4%) | 3 (-19%) | 3 (-19%) | 0 (-96%) | 4 (18%) |
| Entrained at Exports | hilo | 5% | 19 (273%) | 5 (5%) | 5 (5%) | 5 (7%) | 5 (7%) | 3 (-39%) | 5 (-1%) |
| Entrained at Exports | himed | 3% | 10 (277%) | 3 (0%) | 3 (0%) | 2 (-8%) | 3 (-7%) | 2 (-33%) | 3 (1%) |
| Entrained at Exports | hihi | 1% | 2 (182%) | 1 (2%) | 1 (2%) | 1 (-9%) | 1 (-4%) | 0 (-27%) | 1 (14%) |
| Remaining in Delta | lolo | 27% | 20 (-25%) | 26 (-3%) | 26 (-3%) | 27 (0%) | 27 (2%) | 21 (-21%) | 26 (-2%) |
| Remaining in Delta | lomed | 21% | 17 (-21%) | 24 (11%) | 22 (3%) | 18 (-14%) | 18 (-17%) | 12 (-45%) | 23 (8%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lohi | 34% | 29 (-16%) | 42 (26%) | 42 (23%) | 34 (1%) | 34 (0%) | 35 (5%) | 32 (-5%) |
| Remaining in Delta | medlo | 9% | 9 (1%) | 10 (10%) | 10 (6%) | 9 (2%) | 10 (9%) | 7 (-25%) | 9 (2%) |
| Remaining in Delta | medmed | 7% | 7 (1%) | 7 (-2%) | 7 (-3%) | 7 (-9%) | 7 (-10%) | 5 (-31%) | 7 (0%) |
| Remaining in Delta | medhi | 3% | 3 (11%) | 3 (-2%) | 3 (0%) | 3 (-6%) | 3 (-8%) | 2 (-30%) | 3 (1%) |
| Remaining in Delta | hilo | 2% | 2 (13%) | 2 (4%) | 2 (4%) | 2 (9%) | 2 (9%) | 2 (-13%) | 2 (5%) |
| Remaining in Delta | himed | 1% | 2 (50%) | 1 (9%) | 1 (9%) | 1 (5%) | 1 (3%) | 1 (10%) | 1 (6%) |
| Remaining in Delta | hihi | 0% | 0 (22%) | 0 (-1%) | 0 (-1%) | 0 (-1%) | 0 (3%) | 0 (-19%) | 0 (6%) |
| Crossed SJR to South Delta | lolo | 22% | 27 (24%) | 21 (-2%) | 21 (-4%) | 22 (0%) | 21 (-1%) | 11 (-48%) | 22 (2%) |
| Crossed SJR to South Delta | lomed | 16% | 19 (18%) | 15 (-9%) | 14 (-12%) | 11 (-31%) | 11 (-31%) | 10 (-40%) | 17 (7%) |
| Crossed SJR to South Delta | lohi | 26% | 28 (9%) | 20 (-24%) | 18 (-32%) | 25 (-4%) | 24 (-5%) | 8 (-71%) | 7 (-72%) |
| Crossed SJR to South Delta | medlo | 17% | 31 (80%) | 17 (-2%) | 17 (-2%) | 17 (-3%) | 17 (-1%) | 6 (-65%) | 15 (-13%) |
| Crossed SJR to South Delta | medmed | 10% | 20 (89%) | 10 (-1%) | 10 (-2%) | 9 (-18%) | 9 (-18%) | 4 (-63%) | 10 (-5%) |
| Crossed SJR to South Delta | medhi | 4% | 8 (92%) | 4 (0%) | 4 (2%) | 3 (-18%) | 3 (-18%) | 0 (-91%) | 5 (14%) |
| Crossed SJR to South Delta | hilo | 6% | 20 (242%) | 6 (5%) | 6 (5%) | 6 (8%) | 6 (8%) | 4 (-36%) | 6 (0%) |
| Crossed SJR to South Delta | himed | 3% | 11 (254%) | 3 (0%) | 3 (0%) | 3 (-7%) | 3 (-6%) | 2 (-29%) | 3 (1%) |
| Crossed SJR to South Delta | hihi | 1% | 2 (170%) | 1 (1%) | 1 (2%) | 1 (-8%) | 1 (-3%) | 1 (-27%) | 1 (13%) |

Table I.8-52. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AIIVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| West of Chipps | lolo | 10% | 13 (38%) | 10 (5%) | 11 (12%) | 10 (4%) | 10 (4%) | 22 (125%) | 10 (-2%) |
| West of Chipps | lomed | 13% | 16 (22%) | 13 (6%) | 16 (22%) | 21 (68%) | 22 (74%) | 32 (154%) | 12 (-6%) |
| West of Chipps | lohi | 14% | 17 (27%) | 16 (17%) | 19 (36%) | 13 (-1%) | 14 (3%) | 34 (150%) | 32 (133%) |
| West of Chipps | medlo | 14% | 7 (-53%) | 14 (2%) | 15 (5%) | 14 (3%) | 14 (0%) | 38 (175%) | 15 (5%) |
| West of Chipps | medmed | 25% | 11 (-54%) | 25 (2%) | 26 (5%) | 34 (36%) | 34 (39%) | 52 (110%) | 24 (-4%) |
| West of Chipps | medhi | 50% | 30 (-39%) | 49 (-2%) | 49 (-2%) | 57 (14%) | 58 (15%) | 89 (77%) | 45 (-11%) |
| West of Chipps | hilo | 34% | 7 (-78%) | 33 (0%) | 34 (0%) | 33 (-2%) | 32 (-4%) | 49 (47%) | 34 (2%) |
| West of Chipps | himed | 51% | 19 (-63%) | 51 (1%) | 51 (1%) | 54 (6%) | 54 (6%) | 61 (21%) | 50 (0%) |
| West of Chipps | hihi | 82% | 68 (-17%) | 81 (-1%) | 81 (-1%) | 83 (1%) | 83 (1%) | 86 (5%) | 80 (-2%) |
| Entrained at Exports | lolo | 45% | 60 (31%) | 45 (0%) | 44 (-4%) | 45 (-1%) | 44 (-3%) | 23 (-49%) | 47 (4%) |
| Entrained at Exports | lomed | 47% | 48 (2%) | 41 (-13%) | 41 (-13%) | 31 (-34%) | 31 (-34%) | 26 (-45%) | 45 (-4%) |
| Entrained at Exports | lohi | 53% | 59 (12%) | 43 (-18%) | 38 (-28%) | 51 (-4%) | 48 (-8%) | 11 (-79%) | 16 (-69%) |
| Entrained at Exports | medlo | 65% | 82 (26%) | 61 (-6%) | 61 (-6%) | 61 (-5%) | 61 (-6%) | 26 (-59%) | 63 (-3%) |
| Entrained at Exports | medmed | 52% | 75 (45%) | 51 (-1%) | 50 (-3%) | 39 (-24%) | 39 (-25%) | 20 (-61%) | 53 (3%) |
| Entrained at Exports | medhi | 36% | 59 (66%) | 37 (4%) | 37 (4%) | 28 (-20%) | 28 (-20%) | 2 (-95%) | 41 (16%) |
| Entrained at Exports | hilo | 54% | 88 (62%) | 54 (-1%) | 54 (-1%) | 54 (0%) | 55 (1%) | 37 (-32%) | 53 (-2%) |
| Entrained at Exports | himed | 41% | 77 (89%) | 40 (-2%) | 40 (-2%) | 37 (-10%) | 37 (-10%) | 28 (-32%) | 41 (1%) |
| Entrained at Exports | hihi | 16% | 30 (93%) | 16 (4%) | 16 (4%) | 15 (-6%) | 15 (-5%) | 12 (-25%) | 17 (11%) |
| Remaining in Delta | lolo | 45% | 27 (-40%) | 44 (-1%) | 46 (2%) | 45 (1%) | 46 (2%) | 55 (23%) | 43 (-3%) |
| Remaining in Delta | lomed | 40% | 36 (-9%) | 46 (14%) | 43 (9%) | 47 (18%) | 47 (16%) | 41 (3%) | 43 (7%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lohi | 34% | 24 (-30%) | 41 (21%) | 44 (30%) | 36 (6%) | 38 (11%) | 55 (62%) | 52 (55%) |
| Remaining in Delta | medlo | 21% | 12 (-45%) | 25 (16%) | 25 (15%) | 24 (14%) | 25 (18%) | 36 (66%) | 22 (5%) |
| Remaining in Delta | medmed | 24% | 14 (-42%) | 24 (0%) | 24 (2%) | 27 (16%) | 27 (14%) | 28 (19%) | 23 (-3%) |
| Remaining in Delta | medhi | 14% | 11 (-26%) | 14 (-3%) | 14 (-4%) | 14 (0%) | 14 (-2%) | 10 (-33%) | 14 (-4%) |
| Remaining in Delta | hilo | 12% | 5 (-60%) | 13 (4%) | 12 (2%) | 13 (4%) | 13 (7%) | 14 (13%) | 13 (3%) |
| Remaining in Delta | himed | 8% | 4 (-51%) | 9 (6%) | 9 (6%) | 9 (13%) | 9 (11%) | 11 (30%) | 8 (-1%) |
| Remaining in Delta | hihi | 3% | 2 (-16%) | 2 (-6%) | 2 (-5%) | 3 (-1%) | 3 (4%) | 2 (-17%) | 2 (-2%) |
| Crossed SJR to South Delta | lolo | 63% | 71 (13%) | 63 (0%) | 62 (-2%) | 63 (-1%) | 62 (-2%) | 45 (-28%) | 64 (2%) |
| Crossed SJR to South Delta | lomed | 66% | 65 (-1%) | 62 (-6%) | 61 (-8%) | 52 (-20%) | 52 (-21%) | 44 (-33%) | 65 (-1%) |
| Crossed SJR to South Delta | lohi | 68% | 69 (1%) | 59 (-14%) | 54 (-21%) | 68 (-1%) | 66 (-3%) | 29 (-57%) | 31 (-55%) |
| Crossed SJR to South Delta | medlo | 75% | 87 (17%) | 72 (-3%) | 72 (-4%) | 73 (-2%) | 73 (-3%) | 42 (-43%) | 74 (-2%) |
| Crossed SJR to South Delta | medmed | 63% | 82 (29%) | 63 (-1%) | 62 (-2%) | 53 (-17%) | 52 (-17%) | 33 (-47%) | 65 (2%) |
| Crossed SJR to South Delta | medhi | 43% | 64 (50%) | 43 (2%) | 44 (2%) | 35 (-17%) | 35 (-17%) | 6 (-87%) | 48 (12%) |
| Crossed SJR to South Delta | hilo | 61% | 90 (48%) | 61 (0%) | 61 (0%) | 61 (1%) | 62 (1%) | 44 (-27%) | 60 (-1%) |
| Crossed SJR to South Delta | himed | 46% | 80 (74%) | 45 (-1%) | 45 (-1%) | 42 (-8%) | 42 (-8%) | 34 (-26%) | 46 (0%) |
| Crossed SJR to South Delta | hihi | 17% | 31 (84%) | 17 (3%) | 17 (3%) | 16 (-5%) | 16 (-4%) | 13 (-25%) | 19 (9%) |

Table I.8-53. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| West of Chipps | lolo | 36% | 39 (8%) | 37 (3%) | 38 (4%) | 37 (2%) | 37 (1%) | 46 (27%) | 36 (0%) |
| West of Chipps | lomed | 40% | 42 (5%) | 39 (-3%) | 41 (2%) | 45 (11%) | 46 (13%) | 55 (35%) | 39 (-5%) |
| West of Chipps | lohi | 32% | 35 (7%) | 26 (-19%) | 28 (-15%) | 33 (3%) | 34 (4%) | 35 (8%) | 34 (6%) |
| West of Chipps | medlo | 54% | 45 (-17%) | 53 (-2%) | 54 (-1%) | 55 (1%) | 53 (-2%) | 61 (13%) | 55 (2%) |
| West of Chipps | medmed | 58% | 53 (-8%) | 58 (0%) | 58 (1%) | 59 (2%) | 60 (3%) | 63 (9%) | 58 (1%) |
| West of Chipps | medhi | 67% | 64 (-4%) | 66 (0%) | 66 (0%) | 67 (1%) | 68 (1%) | 69 (4%) | 66 (0%) |
| West of Chipps | hilo | 72% | 64 (-11%) | 72 (0%) | 72 (0%) | 72 (0%) | 72 (0%) | 73 (2%) | 72 (0%) |
| West of Chipps | himed | 76% | 72 (-6%) | 75 (-1%) | 75 (-1%) | 76 (0%) | 76 (0%) | 76 (0%) | 76 (0%) |
| West of Chipps | hihi | 78% | 77 (-1%) | 78 (0%) | 78 (0%) | 78 (0%) | 78 (0%) | 78 (0%) | 77 (0%) |
| Entrained at Exports | lolo | 7% | 10 (42%) | 7 (-4%) | 6 (-8%) | 7 (-2%) | 6 (-5%) | 3 (-63%) | 7 (4%) |
| Entrained at Exports | lomed | 5% | 6 (33%) | 4 (-17%) | 4 (-16%) | 3 (-36%) | 3 (-36%) | 3 (-36%) | 5 (8%) |
| Entrained at Exports | lohi | 8% | 8 (12%) | 7 (-13%) | 6 (-26%) | 7 (-13%) | 6 (-20%) | 1 (-84%) | 2 (-71%) |
| Entrained at Exports | medlo | 6% | 14 (117%) | 6 (-4%) | 6 (-4%) | 6 (-5%) | 6 (-2%) | 2 (-75%) | 5 (-17%) |
| Entrained at Exports | medmed | 3% | 8 (131%) | 3 (-2%) | 3 (-3%) | 3 (-21%) | 3 (-21%) | 1 (-76%) | 3 (-9%) |
| Entrained at Exports | medhi | 1% | 3 (126%) | 1 (0%) | 1 (-2%) | 1 (-24%) | 1 (-26%) | 0 (-96%) | 1 (14%) |
| Entrained at Exports | hilo | 1% | 8 (514%) | 1 (8%) | 2 (11%) | 2 (12%) | 1 (9%) | 1 (-40%) | 1 (4%) |
| Entrained at Exports | himed | 1% | 4 (517%) | 1 (-2%) | 1 (-2%) | 1 (-13%) | 1 (-11%) | 0 (-38%) | 1 (0%) |
| Entrained at Exports | hihi | 0% | 0 (412%) | 0 (-2%) | 0 (1%) | 0 (-15%) | 0 (-4%) | 0 (-31%) | 0 (23%) |
| Remaining in Delta | lolo | 57% | 51 (-10%) | 56 (-1%) | 56 (-1%) | 56 (-1%) | 57 (0%) | 51 (-10%) | 56 (-1%) |
| Remaining in Delta | lomed | 55% | 51 (-6%) | 57 (4%) | 55 (0%) | 52 (-5%) | 51 (-7%) | 43 (-23%) | 56 (3%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| Remaining in Delta | lohi | 60% | 57 (-5%) | 67 (12%) | 67 (11%) | 60 (0%) | 60 (0%) | 64 (6%) | 63 (6%) |
| Remaining in Delta | medlo | 39% | 41 (4%) | 41 (3%) | 40 (2%) | 39 (0%) | 40 (2%) | 37 (-6%) | 40 (1%) |
| Remaining in Delta | medmed | 39% | 39 (1%) | 39 (0%) | 39 (-1%) | 38 (-2%) | 38 (-3%) | 36 (-8%) | 39 (0%) |
| Remaining in Delta | medhi | 32% | 33 (4%) | 32 (1%) | 32 (1%) | 32 (-1%) | 32 (-2%) | 31 (-3%) | 32 (0%) |
| Remaining in Delta | hilo | 27% | 28 (4%) | 27 (0%) | 27 (1%) | 27 (0%) | 27 (0%) | 26 (-2%) | 27 (0%) |
| Remaining in Delta | himed | 24% | 25 (5%) | 24 (2%) | 24 (2%) | 24 (1%) | 24 (1%) | 24 (1%) | 24 (1%) |
| Remaining in Delta | hihi | 22% | 23 (1%) | 22 (0%) | 22 (0%) | 22 (0%) | 22 (0%) | 22 (-2%) | 22 (0%) |
| Crossed SJR to South Delta | lolo | 12% | 15 (25%) | 12 (-3%) | 11 (-5%) | 12 (-1%) | 12 (-2%) | 6 (-46%) | 12 (2%) |
| Crossed SJR to South Delta | lomed | 9% | 11 (19%) | 8 (-8%) | 8 (-10%) | 6 (-28%) | 6 (-29%) | 5 (-39%) | 10 (9%) |
| Crossed SJR to South Delta | lohi | 14% | 15 (7%) | 12 (-11%) | 12 (-16%) | 13 (-5%) | 13 (-9%) | 5 (-65%) | 6 (-58%) |
| Crossed SJR to South Delta | medlo | 9% | 18 (94%) | 9 (-2%) | 9 (-2%) | 9 (-4%) | 9 (-1%) | 3 (-65%) | 8 (-13%) |
| Crossed SJR to South Delta | medmed | 5% | 10 (97%) | 5 (-1%) | 5 (-2%) | 4 (-17%) | 4 (-18%) | 2 (-63%) | 5 (-5%) |
| Crossed SJR to South Delta | medhi | 2% | 4 (97%) | 2 (-2%) | 2 (-2%) | 2 (-22%) | 2 (-23%) | 0 (-86%) | 2 (8%) |
| Crossed SJR to South Delta | hilo | 2% | 10 (392%) | 2 (8%) | 2 (11%) | 2 (11%) | 2 (8%) | 1 (-33%) | 2 (5%) |
| Crossed SJR to South Delta | himed | 1% | 5 (388%) | 1 (0%) | 1 (0%) | 1 (-11%) | 1 (-11%) | 1 (-30%) | 1 (1%) |
| Crossed SJR to South Delta | hihi | 0% | 1 (257%) | 0 (3%) | 0 (3%) | 0 (-11%) | 0 (-6%) | 0 (-33%) | 0 (22%) |

Table I.8-54. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|------|-----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| West of Chipps | lolo | 86% | 90 (4%) | 87 (1%) | 87 (1%) | 86 (0%) | 86 (0%) | 93 (8%) | 86 (0%) |
| West of Chipps | lomed | 92% | 93 (1%) | 91 (0%) | 92 (0%) | 94 (3%) | 94 (3%) | 96 (4%) | 90 (-1%) |
| West of Chipps | lohi | 84% | 87 (4%) | 83 (-1%) | 84 (1%) | 84 (1%) | 84 (0%) | 91 (9%) | 93 (11%) |
| West of Chipps | medlo | 93% | 89 (-4%) | 93 (0%) | 93 (0%) | 93 (0%) | 93 (0%) | 98 (5%) | 94 (1%) |
| West of Chipps | medmed | 96% | 93 (-3%) | 96 (0%) | 96 (0%) | 97 (0%) | 97 (0%) | 99 (2%) | 97 (1%) |
| West of Chipps | medhi | 99% | 99 (-1%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 100 (0%) | 99 (0%) |
| West of Chipps | hilo | 99% | 94 (-5%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) | 99 (0%) |
| West of Chipps | himed | 100% | 98 (-2%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| West of Chipps | hihi | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | lolo | 4% | 4 (3%) | 4 (-9%) | 4 (-9%) | 4 (-1%) | 4 (-5%) | 1 (-75%) | 4 (0%) |
| Entrained at Exports | lomed | 2% | 3 (31%) | 2 (-19%) | 2 (-17%) | 1 (-40%) | 1 (-40%) | 2 (-27%) | 3 (22%) |
| Entrained at Exports | lohi | 4% | 4 (-4%) | 2 (-49%) | 2 (-63%) | 4 (-11%) | 4 (-15%) | 0 (-93%) | 0 (-94%) |
| Entrained at Exports | medlo | 4% | 8 (87%) | 4 (-3%) | 4 (-1%) | 4 (-5%) | 4 (-4%) | 1 (-83%) | 3 (-32%) |
| Entrained at Exports | medmed | 2% | 4 (135%) | 2 (-2%) | 2 (-2%) | 1 (-12%) | 2 (-12%) | 0 (-84%) | 1 (-30%) |
| Entrained at Exports | medhi | 0% | 1 (211%) | 0 (11%) | 0 (13%) | 0 (-16%) | 0 (-7%) | 0 (-98%) | 0 (41%) |
| Entrained at Exports | hilo | 0% | 5 (1302%) | 0 (32%) | 0 (30%) | 0 (30%) | 1 (35%) | 0 (-56%) | 0 (4%) |
| Entrained at Exports | himed | 0% | 2 (1628%) | 0 (-3%) | 0 (-2%) | 0 (-10%) | 0 (-1%) | 0 (-48%) | 0 (-10%) |
| Entrained at Exports | hihi | 0% | 0 (2262%) | 0 (0%) | 0 (-5%) | 0 (-15%) | 0 (19%) | 0 (-64%) | 0 (109%) |
| Remaining in Delta | lolo | 10% | 6 (-37%) | 9 (-3%) | 9 (-2%) | 10 (1%) | 10 (3%) | 6 (-40%) | 10 (0%) |
| Remaining in Delta | lomed | 6% | 4 (-30%) | 7 (12%) | 6 (3%) | 5 (-25%) | 4 (-28%) | 3 (-56%) | 7 (14%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| Remaining in Delta | lohi | 12% | 9 (-27%) | 15 (23%) | 14 (17%) | 12 (0%) | 12 (2%) | 9 (-27%) | 7 (-41%) |
| Remaining in Delta | medlo | 3% | 4 (15%) | 3 (7%) | 3 (5%) | 3 (0%) | 3 (5%) | 1 (-55%) | 3 (-3%) |
| Remaining in Delta | medmed | 2% | 3 (30%) | 2 (-1%) | 2 (-3%) | 2 (-13%) | 2 (-13%) | 1 (-48%) | 2 (-1%) |
| Remaining in Delta | medhi | 1% | 1 (30%) | 1 (0%) | 1 (4%) | 1 (-4%) | 1 (-7%) | 0 (-26%) | 1 (6%) |
| Remaining in Delta | hilo | 0% | 1 (147%) | 0 (13%) | 0 (17%) | 0 (22%) | 0 (17%) | 0 (-14%) | 0 (15%) |
| Remaining in Delta | himed | 0% | 1 (224%) | 0 (7%) | 0 (11%) | 0 (2%) | 0 (-8%) | 0 (2%) | 0 (4%) |
| Remaining in Delta | hihi | 0% | 0 (61%) | 0 (4%) | 0 (7%) | 0 (6%) | 0 (2%) | 0 (-18%) | 0 (11%) |
| Crossed SJR to South Delta | lolo | 6% | 6 (1%) | 6 (-6%) | 6 (-6%) | 6 (1%) | 6 (-2%) | 2 (-66%) | 6 (1%) |
| Crossed SJR to South Delta | lomed | 3% | 4 (25%) | 3 (-14%) | 3 (-14%) | 2 (-39%) | 2 (-39%) | 2 (-32%) | 4 (21%) |
| Crossed SJR to South Delta | lohi | 7% | 7 (-9%) | 4 (-47%) | 3 (-59%) | 7 (-4%) | 7 (-7%) | 1 (-88%) | 1 (-91%) |
| Crossed SJR to South Delta | medlo | 5% | 9 (83%) | 5 (-2%) | 5 (0%) | 5 (-4%) | 5 (-2%) | 1 (-80%) | 3 (-29%) |
| Crossed SJR to South Delta | medmed | 2% | 5 (126%) | 2 (-2%) | 2 (-3%) | 2 (-14%) | 2 (-13%) | 0 (-81%) | 2 (-25%) |
| Crossed SJR to South Delta | medhi | 0% | 1 (198%) | 0 (7%) | 0 (14%) | 0 (-20%) | 0 (-9%) | 0 (-97%) | 0 (34%) |
| Crossed SJR to South Delta | hilo | 0% | 6 (1140%) | 1 (32%) | 1 (30%) | 1 (31%) | 1 (34%) | 0 (-53%) | 0 (7%) |
| Crossed SJR to South Delta | himed | 0% | 2 (1578%) | 0 (-1%) | 0 (2%) | 0 (-8%) | 0 (1%) | 0 (-44%) | 0 (-8%) |
| Crossed SJR to South Delta | hihi | 0% | 0 (2112%) | 0 (-5%) | 0 (-12%) | 0 (-22%) | 0 (18%) | 0 (-64%) | 0 (101%) |

Table I.8-55. Mean December through March surface-oriented particle fate by Inflow bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that Inflow bin.

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|----------|
| West of Chipps | lolo | 89% | 61 (-32%) | 89 (0%) | 89 (0%) | 90 (2%) | 91 (2%) | 81 (-9%) | 89 (1%) |
| West of Chipps | lomed | 78% | 61 (-21%) | 79 (1%) | 81 (4%) | 78 (1%) | 78 (1%) | 79 (1%) | 75 (-3%) |
| West of Chipps | lohi | 83% | 58 (-30%) | 96 (16%) | 97 (17%) | 83 (1%) | 83 (0%) | 98 (18%) | 98 (19%) |
| West of Chipps | medlo | 86% | 66 (-23%) | 87 (1%) | 87 (1%) | 87 (1%) | 87 (1%) | 83 (-4%) | 86 (0%) |
| West of Chipps | medmed | 83% | 72 (-14%) | 82 (-2%) | 81 (-2%) | 82 (-1%) | 83 (-1%) | 82 (-1%) | 82 (-2%) |
| West of Chipps | medhi | 82% | 78 (-5%) | 81 (0%) | 81 (0%) | 83 (1%) | 83 (2%) | 87 (6%) | 81 (-1%) |
| West of Chipps | hilo | 95% | 90 (-6%) | 95 (0%) | 95 (0%) | 94 (-1%) | 95 (0%) | 94 (-1%) | 95 (-1%) |
| West of Chipps | himed | 97% | 94 (-3%) | 97 (0%) | 97 (0%) | 97 (0%) | 97 (0%) | 96 (-1%) | 97 (0%) |
| West of Chipps | hihi | 98% | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) | 98 (0%) |
| Entrained at Exports | lolo | 0% | 0 (55%) | 0 (-9%) | 0 (-10%) | 0 (10%) | 0 (-2%) | 0 (-83%) | 0 (1%) |
| Entrained at Exports | lomed | 0% | 0 (71%) | 0 (-40%) | 0 (-34%) | 0 (-52%) | 0 (-53%) | 0 (-62%) | 0 (12%) |
| Entrained at Exports | lohi | 0% | 0 (10%) | 0 (-40%) | 0 (-20%) | 0 (-50%) | 0 (-40%) | 0 (-100%) | 0 (-70%) |
| Entrained at Exports | medlo | 0% | 0 (141%) | 0 (6%) | 0 (15%) | 0 (-8%) | 0 (-12%) | 0 (-92%) | 0 (-49%) |
| Entrained at Exports | medmed | 0% | 0 (111%) | 0 (0%) | 0 (6%) | 0 (-3%) | 0 (-2%) | 0 (-100%) | 0 (-73%) |
| Entrained at Exports | medhi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Entrained at Exports | hilo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Entrained at Exports | himed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Entrained at Exports | hihi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Remaining in Delta | lolo | 11% | 39 (250%) | 11 (0%) | 11 (0%) | 10 (-13%) | 9 (-17%) | 19 (71%) | 11 (-4%) |
| Remaining in Delta | lomed | 22% | 39 (72%) | 21 (-5%) | 19 (-14%) | 22 (-2%) | 22 (-3%) | 21 (-4%) | 25 (10%) |

| Exit Point | Flow Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|----------|-----|-----------|-------------------|--------------------|-----------------------|---------------------|-----------|-----------|
| Remaining in Delta | lohi | 17% | 42 (142%) | 4 (-77%) | 3 (-82%) | 17 (-4%) | 17 (-1%) | 2 (-86%) | 2 (-89%) |
| Remaining in Delta | medlo | 14% | 34 (145%) | 13 (-7%) | 13 (-6%) | 13 (-7%) | 13 (-9%) | 17 (23%) | 14 (2%) |
| Remaining in Delta | medmed | 17% | 28 (67%) | 18 (8%) | 18 (10%) | 18 (6%) | 17 (3%) | 18 (7%) | 18 (9%) |
| Remaining in Delta | medhi | 18% | 22 (21%) | 19 (2%) | 19 (1%) | 17 (-6%) | 17 (-7%) | 13 (-26%) | 19 (3%) |
| Remaining in Delta | hilo | 5% | 10 (106%) | 5 (6%) | 5 (5%) | 6 (12%) | 5 (5%) | 6 (12%) | 5 (10%) |
| Remaining in Delta | himed | 3% | 6 (94%) | 3 (2%) | 3 (5%) | 3 (-5%) | 3 (-7%) | 4 (19%) | 3 (-4%) |
| Remaining in Delta | hihi | 2% | 2 (21%) | 2 (0%) | 2 (0%) | 2 (0%) | 2 (3%) | 2 (-11%) | 2 (4%) |
| Crossed SJR to South Delta | lolo | 0% | 0 (31%) | 0 (-4%) | 0 (1%) | 0 (14%) | 0 (8%) | 0 (-72%) | 0 (2%) |
| Crossed SJR to South Delta | lomed | 0% | 0 (53%) | 0 (-34%) | 0 (-33%) | 0 (-51%) | 0 (-54%) | 0 (-65%) | 0 (18%) |
| Crossed SJR to South Delta | lohi | 0% | 0 (-4%) | 0 (-33%) | 0 (-15%) | 0 (-44%) | 0 (-15%) | 0 (-67%) | 0 (-78%) |
| Crossed SJR to South Delta | medlo | 0% | 0 (119%) | 0 (6%) | 0 (17%) | 0 (-5%) | 0 (-9%) | 0 (-91%) | 0 (-55%) |
| Crossed SJR to South Delta | medmed | 0% | 0 (123%) | 0 (3%) | 0 (-4%) | 0 (4%) | 0 (2%) | 0 (-97%) | 0 (-61%) |
| Crossed SJR to South Delta | medhi | 0% | 0 (-8%) | 0 (0%) | 0 (-100%) | 0 (0%) | 0 (-100%) | 0 (-100%) | 0 (-100%) |
| Crossed SJR to South Delta | hilo | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | himed | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | hihi | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

1.8.4.3.7 Neutrally Buoyant, OMR Bins [EIS, Table I.8-56 through Table I.8-64]

Table I.8-56. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 10% | 7 (-37%) | 3 (-69%) | 4 (-60%) | 10 (-3%) | 12 (14%) | 6 (-46%) | 3 (-69%) |
| West of Chipps | -3500 | 20% | 12 (-41%) | 13 (-35%) | 13 (-34%) | 17 (-16%) | 16 (-19%) | 5 (-76%) | 11 (-43%) |
| West of Chipps | -5000 | 2% | 13 (568%) | 17 (740%) | 17 (744%) | 16 (704%) | 15 (666%) | 11 (446%) | 13 (573%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 59% | 56 (-5%) | 56 (-4%) | 58 (-1%) | 57 (-2%) | 58 (-1%) | 51 (-13%) | 56 (-5%) |
| Entrained at Exports | -3500 | 69% | 72 (4%) | 72 (5%) | 72 (5%) | 69 (0%) | 71 (2%) | 69 (0%) | 73 (6%) |
| Entrained at Exports | -5000 | 88% | 77 (-12%) | 77 (-13%) | 76 (-13%) | 78 (-11%) | 79 (-11%) | 80 (-9%) | 80 (-9%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | 38 (21%) | 41 (31%) | 38 (22%) | 32 (5%) | 30 (-2%) | 43 (40%) | 41 (33%) |
| Remaining in Delta | -3500 | 11% | 16 (48%) | 15 (35%) | 15 (33%) | 14 (27%) | 13 (20%) | 26 (139%) | 15 (39%) |
| Remaining in Delta | -5000 | 10% | 9 (-8%) | 7 (-34%) | 7 (-33%) | 6 (-41%) | 6 (-38%) | 10 (-6%) | 7 (-30%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 46% | 48 (3%) | 49 (5%) | 48 (4%) | 46 (-1%) | 45 (-3%) | 52 (13%) | 49 (6%) |
| Crossed SJR to South Delta | -3500 | 46% | 51 (12%) | 50 (10%) | 50 (10%) | 48 (5%) | 49 (7%) | 60 (30%) | 51 (12%) |
| Crossed SJR to South Delta | -5000 | 67% | 55 (-18%) | 53 (-20%) | 53 (-20%) | 54 (-18%) | 55 (-17%) | 53 (-20%) | 55 (-18%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-57. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|------------|----------------|-----------------|--------------------|------------------|------------|------------|
| West of Chipps | -2000 | 13% | 11 (-16%) | 10 (-27%) | 10 (-24%) | 13 (2%) | 14 (7%) | 12 (-11%) | 9 (-30%) |
| West of Chipps | -3500 | 13% | 11 (-20%) | 11 (-14%) | 12 (-12%) | 13 (-6%) | 12 (-9%) | 9 (-36%) | 11 (-19%) |
| West of Chipps | -5000 | 6% | 9 (64%) | 10 (89%) | 10 (89%) | 10 (86%) | 10 (79%) | 10 (73%) | 10 (82%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 73% | 73 (0%) | 74 (1%) | 75 (2%) | 74 (1%) | 73 (0%) | 72 (-2%) | 74 (1%) |
| Entrained at Exports | -3500 | 83% | 82 (-1%) | 83 (0%) | 83 (0%) | 81 (-2%) | 82 (-2%) | 81 (-2%) | 83 (1%) |
| Entrained at Exports | -5000 | 88% | 86 (-3%) | 85 (-4%) | 85 (-4%) | 86 (-3%) | 86 (-3%) | 88 (0%) | 86 (-2%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 14% | 16 (17%) | 17 (22%) | 15 (13%) | 13 (-5%) | 13 (-6%) | 16 (19%) | 17 (24%) |
| Remaining in Delta | -3500 | 4% | 7 (98%) | 6 (49%) | 5 (47%) | 7 (76%) | 6 (68%) | 10 (181%) | 6 (56%) |
| Remaining in Delta | -5000 | 6% | 5 (-17%) | 4 (-30%) | 4 (-29%) | 4 (-34%) | 4 (-30%) | 2 (-61%) | 4 (-40%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | -17% | -16 (-2%) | -15 (-8%) | -15 (-10%) | -17 (2%) | -17 (4%) | -17 (1%) | -15 (-11%) |
| Crossed SJR to South Delta | -3500 | -14% | -12 (-13%) | -13 (-9%) | -13 (-8%) | -14 (-2%) | -14 (-5%) | -12 (-16%) | -12 (-13%) |
| Crossed SJR to South Delta | -5000 | -7% | -10 (44%) | -11 (62%) | -11 (61%) | -11 (56%) | -11 (52%) | -10 (44%) | -11 (56%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-58. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|------------|----------------|-----------------|--------------------|------------------|------------|-----------|
| West of Chipps | -2000 | 0% | 0 (-23%) | 0 (-61%) | 0 (-100%) | 0 (-15%) | 0 (-15%) | 0 (-100%) | 0 (-100%) |
| West of Chipps | -3500 | 0% | 0 (-1018%) | 0 (-628%) | 0 (-245%) | 0 (-711%) | 0 (-685%) | 0 (-4459%) | 0 (-123%) |
| West of Chipps | -5000 | 0% | 0 (-218%) | 0 (-163%) | 0 (-197%) | 0 (115%) | 0 (-8%) | 0 (-409%) | 0 (51%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 99% | 98 (-1%) | 99 (-1%) | 99 (0%) | 99 (0%) | 99 (0%) | 96 (-3%) | 98 (-1%) |
| Entrained at Exports | -3500 | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | -5000 | 99% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (1%) | 100 (1%) | 100 (1%) | 100 (1%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 1% | 2 (119%) | 1 (71%) | 1 (-7%) | 1 (21%) | 1 (24%) | 4 (428%) | 2 (105%) |
| Remaining in Delta | -3500 | 0% | 0 (-21%) | 0 (-7%) | 0 (1%) | 0 (134%) | 0 (94%) | 0 (240%) | 0 (-42%) |
| Remaining in Delta | -5000 | 1% | 0 (-49%) | 0 (-88%) | 0 (-88%) | 0 (-91%) | 0 (-92%) | 0 (-99%) | 0 (-92%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 0% | 0 (-29%) | 0 (-67%) | 0 (-100%) | 0 (-21%) | 0 (-7%) | 0 (-100%) | 0 (-100%) |
| Crossed SJR to South Delta | -3500 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | -5000 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-59. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 55% | 41 (-26%) | 38 (-31%) | 42 (-24%) | 55 (0%) | 57 (5%) | 50 (-9%) | 38 (-31%) |
| West of Chipps | -3500 | 71% | 57 (-19%) | 62 (-12%) | 63 (-11%) | 64 (-10%) | 64 (-10%) | 47 (-33%) | 59 (-17%) |
| West of Chipps | -5000 | 38% | 59 (54%) | 67 (76%) | 67 (76%) | 66 (74%) | 65 (70%) | 64 (68%) | 64 (69%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 15% | 15 (3%) | 14 (-1%) | 15 (2%) | 14 (-6%) | 14 (-7%) | 12 (-21%) | 14 (-1%) |
| Entrained at Exports | -3500 | 19% | 23 (23%) | 22 (15%) | 21 (13%) | 21 (13%) | 22 (16%) | 21 (13%) | 23 (24%) |
| Entrained at Exports | -5000 | 44% | 28 (-36%) | 23 (-48%) | 23 (-48%) | 25 (-43%) | 26 (-41%) | 27 (-39%) | 26 (-42%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | 44 (45%) | 48 (56%) | 44 (43%) | 31 (3%) | 29 (-5%) | 39 (26%) | 48 (57%) |
| Remaining in Delta | -3500 | 11% | 20 (86%) | 16 (53%) | 16 (47%) | 15 (42%) | 15 (38%) | 31 (194%) | 18 (70%) |
| Remaining in Delta | -5000 | 18% | 13 (-26%) | 10 (-45%) | 10 (-45%) | 9 (-51%) | 9 (-48%) | 9 (-49%) | 10 (-43%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 29% | 34 (20%) | 35 (22%) | 34 (19%) | 28 (-1%) | 27 (-5%) | 27 (-5%) | 35 (22%) |
| Crossed SJR to South Delta | -3500 | 24% | 32 (33%) | 29 (21%) | 28 (19%) | 28 (19%) | 29 (21%) | 34 (42%) | 31 (31%) |
| Crossed SJR to South Delta | -5000 | 52% | 34 (-34%) | 27 (-48%) | 27 (-48%) | 29 (-44%) | 30 (-42%) | 31 (-40%) | 30 (-43%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-60. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 77% | 65 (-16%) | 64 (-18%) | 69 (-10%) | 76 (-1%) | 79 (2%) | 67 (-13%) | 63 (-18%) |
| West of Chipps | -3500 | 90% | 84 (-7%) | 87 (-3%) | 88 (-2%) | 86 (-5%) | 87 (-4%) | 67 (-25%) | 86 (-4%) |
| West of Chipps | -5000 | 65% | 82 (26%) | 86 (32%) | 86 (31%) | 85 (31%) | 84 (29%) | 92 (42%) | 87 (33%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 3% | 3 (10%) | 3 (-7%) | 3 (-5%) | 3 (-1%) | 3 (-6%) | 2 (-14%) | 3 (-8%) |
| Entrained at Exports | -3500 | 3% | 4 (36%) | 3 (6%) | 3 (3%) | 4 (32%) | 4 (30%) | 5 (63%) | 4 (19%) |
| Entrained at Exports | -5000 | 14% | 6 (-58%) | 5 (-65%) | 5 (-65%) | 6 (-57%) | 7 (-54%) | 3 (-78%) | 5 (-66%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 20% | 32 (61%) | 34 (70%) | 28 (40%) | 21 (5%) | 19 (-6%) | 31 (54%) | 34 (72%) |
| Remaining in Delta | -3500 | 7% | 12 (72%) | 9 (33%) | 9 (25%) | 10 (44%) | 9 (32%) | 28 (296%) | 11 (48%) |
| Remaining in Delta | -5000 | 20% | 12 (-43%) | 9 (-55%) | 9 (-55%) | 9 (-57%) | 9 (-54%) | 5 (-78%) | 8 (-59%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 8% | 11 (34%) | 11 (30%) | 10 (17%) | 9 (5%) | 8 (-4%) | 9 (11%) | 11 (30%) |
| Crossed SJR to South Delta | -3500 | 5% | 7 (43%) | 5 (11%) | 5 (6%) | 6 (36%) | 6 (31%) | 11 (129%) | 6 (25%) |
| Crossed SJR to South Delta | -5000 | 20% | 9 (-55%) | 7 (-64%) | 7 (-64%) | 8 (-58%) | 9 (-55%) | 4 (-78%) | 7 (-66%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-61. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 33% | 20 (-39%) | 17 (-48%) | 19 (-42%) | 34 (3%) | 38 (12%) | 30 (-11%) | 17 (-48%) |
| West of Chipps | -3500 | 56% | 37 (-35%) | 43 (-23%) | 44 (-22%) | 46 (-18%) | 46 (-18%) | 27 (-51%) | 39 (-31%) |
| West of Chipps | -5000 | 19% | 42 (118%) | 52 (167%) | 52 (167%) | 52 (165%) | 50 (156%) | 47 (140%) | 47 (144%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 16% | 14 (-13%) | 13 (-19%) | 14 (-16%) | 15 (-11%) | 15 (-10%) | 14 (-15%) | 13 (-20%) |
| Entrained at Exports | -3500 | 24% | 29 (19%) | 27 (13%) | 27 (13%) | 27 (11%) | 28 (16%) | 28 (15%) | 29 (19%) |
| Entrained at Exports | -5000 | 59% | 39 (-35%) | 34 (-43%) | 34 (-44%) | 36 (-40%) | 37 (-38%) | 36 (-40%) | 37 (-38%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 50% | 66 (30%) | 70 (38%) | 67 (33%) | 51 (1%) | 48 (-5%) | 56 (12%) | 70 (38%) |
| Remaining in Delta | -3500 | 19% | 34 (78%) | 29 (50%) | 28 (47%) | 27 (38%) | 25 (32%) | 45 (132%) | 32 (66%) |
| Remaining in Delta | -5000 | 21% | 19 (-9%) | 15 (-31%) | 15 (-31%) | 13 (-40%) | 14 (-36%) | 17 (-17%) | 16 (-25%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 38% | 41 (7%) | 42 (10%) | 42 (9%) | 37 (-3%) | 36 (-7%) | 38 (-1%) | 43 (11%) |
| Crossed SJR to South Delta | -3500 | 34% | 44 (29%) | 40 (20%) | 40 (18%) | 39 (16%) | 40 (19%) | 48 (41%) | 43 (28%) |
| Crossed SJR to South Delta | -5000 | 69% | 47 (-32%) | 40 (-43%) | 40 (-43%) | 41 (-40%) | 43 (-38%) | 45 (-35%) | 44 (-37%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-62. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 42% | 31 (-26%) | 31 (-26%) | 34 (-19%) | 43 (2%) | 45 (6%) | 33 (-22%) | 31 (-27%) |
| West of Chipps | -3500 | 59% | 45 (-24%) | 51 (-15%) | 51 (-14%) | 52 (-13%) | 52 (-12%) | 30 (-49%) | 49 (-17%) |
| West of Chipps | -5000 | 33% | 45 (35%) | 46 (38%) | 46 (38%) | 49 (46%) | 47 (41%) | 60 (81%) | 50 (50%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 1% | 1 (-10%) | 1 (-26%) | 1 (-23%) | 1 (-4%) | 1 (-13%) | 1 (-38%) | 1 (-25%) |
| Entrained at Exports | -3500 | 1% | 1 (37%) | 1 (-8%) | 1 (-11%) | 1 (46%) | 1 (41%) | 1 (19%) | 1 (9%) |
| Entrained at Exports | -5000 | 6% | 2 (-65%) | 2 (-70%) | 2 (-70%) | 2 (-57%) | 3 (-54%) | 1 (-89%) | 2 (-73%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 57% | 68 (19%) | 68 (20%) | 65 (14%) | 56 (-1%) | 54 (-4%) | 67 (17%) | 69 (21%) |
| Remaining in Delta | -3500 | 40% | 53 (35%) | 48 (22%) | 48 (21%) | 47 (19%) | 46 (17%) | 69 (74%) | 50 (26%) |
| Remaining in Delta | -5000 | 61% | 53 (-13%) | 52 (-14%) | 52 (-14%) | 49 (-20%) | 51 (-17%) | 39 (-36%) | 49 (-20%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 5% | 6 (18%) | 5 (18%) | 5 (7%) | 5 (4%) | 4 (-6%) | 4 (-9%) | 6 (18%) |
| Crossed SJR to South Delta | -3500 | 2% | 3 (38%) | 2 (1%) | 2 (-5%) | 3 (41%) | 3 (34%) | 5 (99%) | 3 (16%) |
| Crossed SJR to South Delta | -5000 | 10% | 4 (-58%) | 3 (-67%) | 3 (-66%) | 4 (-57%) | 4 (-54%) | 1 (-85%) | 3 (-69%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-63. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|----------|----------------|-----------------|--------------------|------------------|----------|-----------|
| West of Chipps | -2000 | 95% | 91 (-4%) | 90 (-5%) | 93 (-2%) | 95 (0%) | 95 (1%) | 93 (-1%) | 90 (-5%) |
| West of Chipps | -3500 | 98% | 97 (-1%) | 98 (0%) | 98 (0%) | 97 (-1%) | 98 (-1%) | 94 (-4%) | 97 (-1%) |
| West of Chipps | -5000 | 92% | 96 (4%) | 98 (6%) | 98 (6%) | 98 (6%) | 98 (5%) | 99 (7%) | 98 (6%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 0% | 0 (0%) | 0 (-13%) | 0 (-19%) | 0 (5%) | 0 (-7%) | 0 (-53%) | 0 (-17%) |
| Entrained at Exports | -3500 | 0% | 0 (34%) | 0 (-18%) | 0 (-25%) | 0 (49%) | 0 (38%) | 0 (-17%) | 0 (-1%) |
| Entrained at Exports | -5000 | 2% | 1 (-70%) | 0 (-82%) | 0 (-82%) | 1 (-71%) | 1 (-69%) | 0 (-92%) | 0 (-84%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 5% | 8 (70%) | 10 (102%) | 7 (43%) | 5 (2%) | 4 (-9%) | 6 (31%) | 10 (100%) |
| Remaining in Delta | -3500 | 2% | 3 (55%) | 2 (25%) | 2 (16%) | 2 (36%) | 2 (24%) | 5 (225%) | 2 (39%) |
| Remaining in Delta | -5000 | 6% | 3 (-46%) | 2 (-66%) | 2 (-66%) | 2 (-70%) | 2 (-67%) | 1 (-84%) | 2 (-68%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 1% | 2 (31%) | 2 (28%) | 1 (5%) | 1 (7%) | 1 (-5%) | 1 (-30%) | 2 (30%) |
| Crossed SJR to South Delta | -3500 | 1% | 1 (36%) | 0 (-9%) | 0 (-16%) | 1 (47%) | 1 (34%) | 1 (50%) | 1 (9%) |
| Crossed SJR to South Delta | -5000 | 3% | 1 (-65%) | 1 (-80%) | 1 (-80%) | 1 (-72%) | 1 (-69%) | 0 (-91%) | 1 (-82%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

Table I.8-64. Mean March through June neutrally buoyant particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 69% | 59 (-14%) | 66 (-5%) | 62 (-10%) | 70 (1%) | 71 (3%) | 67 (-3%) | 65 (-6%) |
| West of Chipps | -3500 | 86% | 69 (-19%) | 77 (-10%) | 78 (-9%) | 77 (-10%) | 77 (-10%) | 61 (-29%) | 74 (-13%) |
| West of Chipps | -5000 | 73% | 73 (0%) | 74 (2%) | 74 (2%) | 75 (2%) | 73 (0%) | 88 (20%) | 79 (8%) |
| West of Chipps | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Entrained at Exports | -2000 | 0% | 0 (-52%) | 0 (-17%) | 0 (-2%) | 0 (46%) | 0 (25%) | 0 (-36%) | 0 (-47%) |
| Entrained at Exports | -3500 | 0% | 0 (-35%) | 0 (-54%) | 0 (-50%) | 0 (1%) | 0 (-11%) | 0 (-44%) | 0 (-59%) |
| Entrained at Exports | -5000 | 0% | 0 (-87%) | 0 (-95%) | 0 (-93%) | 0 (-67%) | 0 (-73%) | 0 (-100%) | 0 (-93%) |
| Entrained at Exports | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Remaining in Delta | -2000 | 31% | 41 (31%) | 34 (11%) | 38 (22%) | 30 (-3%) | 29 (-7%) | 33 (7%) | 35 (14%) |
| Remaining in Delta | -3500 | 14% | 31 (114%) | 23 (60%) | 22 (55%) | 23 (61%) | 23 (59%) | 39 (172%) | 26 (79%) |
| Remaining in Delta | -5000 | 27% | 27 (1%) | 26 (-5%) | 26 (-5%) | 25 (-5%) | 27 (1%) | 12 (-55%) | 21 (-21%) |
| Remaining in Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |
| Crossed SJR to South Delta | -2000 | 0% | 0 (-19%) | 0 (18%) | 0 (-21%) | 0 (-3%) | 0 (-28%) | 0 (-44%) | 0 (20%) |
| Crossed SJR to South Delta | -3500 | 0% | 0 (-14%) | 0 (-42%) | 0 (-48%) | 0 (61%) | 0 (22%) | 0 (131%) | 0 (-34%) |
| Crossed SJR to South Delta | -5000 | 0% | 0 (-80%) | 0 (-87%) | 0 (-84%) | 0 (-71%) | 0 (-74%) | 0 (-99%) | 0 (-90%) |
| Crossed SJR to South Delta | -5500 | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A | #N/A |

1.8.4.3.8 Surface Oriented, OMR Bins [EIS, Table I.8-65 through Table I.8-73]

Table I.8-65. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at San Joaquin River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|------------|----------------|-----------------|--------------------|------------------|-----------|------------|
| West of Chipps | -2000 | 9% | 13 (53%) | 4 (-49%) | 4 (-52%) | 13 (53%) | 14 (62%) | 8 (-10%) | 4 (-49%) |
| West of Chipps | -3500 | 12% | 8 (-29%) | 9 (-25%) | 9 (-24%) | 7 (-39%) | 7 (-41%) | 5 (-57%) | 9 (-26%) |
| West of Chipps | -5000 | 6% | 7 (11%) | 9 (58%) | 10 (59%) | 10 (64%) | 9 (58%) | 11 (77%) | 8 (25%) |
| West of Chipps | -5500 | 0% | 3 (13553%) | 0 (315%) | 0 (250%) | 0 (280%) | 0 (227%) | 0 (-50%) | 2 (13125%) |
| Entrained at Exports | -2000 | 66% | 66 (-1%) | 69 (4%) | 70 (6%) | 61 (-8%) | 62 (-7%) | 66 (-1%) | 69 (3%) |
| Entrained at Exports | -3500 | 78% | 81 (4%) | 81 (5%) | 81 (5%) | 82 (5%) | 82 (6%) | 82 (5%) | 81 (4%) |
| Entrained at Exports | -5000 | 88% | 88 (-1%) | 85 (-4%) | 85 (-4%) | 85 (-4%) | 85 (-3%) | 85 (-4%) | 87 (-1%) |
| Entrained at Exports | -5500 | 89% | 93 (5%) | 88 (-1%) | 88 (-1%) | 88 (-1%) | 88 (-1%) | 90 (2%) | 87 (-2%) |
| Remaining in Delta | -2000 | 25% | 21 (-15%) | 27 (7%) | 25 (1%) | 26 (5%) | 25 (-2%) | 27 (6%) | 27 (7%) |
| Remaining in Delta | -3500 | 10% | 11 (6%) | 10 (-7%) | 10 (-6%) | 11 (7%) | 11 (7%) | 13 (27%) | 10 (-1%) |
| Remaining in Delta | -5000 | 6% | 5 (-3%) | 5 (-3%) | 5 (-3%) | 5 (-8%) | 5 (-8%) | 5 (-14%) | 5 (-7%) |
| Remaining in Delta | -5500 | 11% | 4 (-64%) | 12 (6%) | 12 (8%) | 12 (5%) | 12 (4%) | 10 (-13%) | 11 (-6%) |
| Crossed SJR to South Delta | -2000 | 44% | 43 (-2%) | 47 (7%) | 49 (10%) | 42 (-5%) | 42 (-5%) | 46 (4%) | 47 (6%) |
| Crossed SJR to South Delta | -3500 | 51% | 51 (1%) | 53 (5%) | 53 (4%) | 53 (5%) | 53 (5%) | 53 (5%) | 53 (4%) |
| Crossed SJR to South Delta | -5000 | 55% | 55 (0%) | 53 (-5%) | 52 (-5%) | 52 (-5%) | 52 (-5%) | 54 (-3%) | 55 (0%) |
| Crossed SJR to South Delta | -5500 | 51% | 57 (12%) | 51 (1%) | 51 (0%) | 52 (1%) | 51 (1%) | 52 (2%) | 52 (2%) |

Table I.8-66. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Old and Middle River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|------------|-------------------|--------------------|-----------------------|---------------------|------------|-----------|
| West of Chipps | -2000 | 10% | 13 (34%) | 9 (-9%) | 10 (-3%) | 15 (45%) | 14 (41%) | 13 (31%) | 9 (-11%) |
| West of Chipps | -3500 | 11% | 8 (-24%) | 10 (-5%) | 10 (-5%) | 9 (-13%) | 9 (-15%) | 9 (-19%) | 10 (-9%) |
| West of Chipps | -5000 | 7% | 6 (-12%) | 8 (10%) | 8 (11%) | 8 (13%) | 8 (11%) | 10 (39%) | 8 (14%) |
| West of Chipps | -5500 | 1% | 4 (255%) | 1 (13%) | 1 (6%) | 1 (1%) | 1 (0%) | 2 (96%) | 2 (123%) |
| Entrained at Exports | -2000 | 81% | 79 (-2%) | 81 (1%) | 81 (0%) | 78 (-3%) | 78 (-3%) | 80 (-1%) | 81 (0%) |
| Entrained at Exports | -3500 | 86% | 88 (2%) | 87 (1%) | 87 (1%) | 87 (1%) | 88 (1%) | 88 (1%) | 88 (1%) |
| Entrained at Exports | -5000 | 91% | 92 (1%) | 90 (0%) | 90 (0%) | 90 (-1%) | 90 (0%) | 88 (-3%) | 90 (-1%) |
| Entrained at Exports | -5500 | 97% | 95 (-2%) | 97 (0%) | 97 (0%) | 97 (0%) | 97 (0%) | 96 (-1%) | 95 (-2%) |
| Remaining in Delta | -2000 | 9% | 7 (-22%) | 10 (1%) | 9 (-1%) | 7 (-21%) | 8 (-20%) | 7 (-27%) | 10 (8%) |
| Remaining in Delta | -3500 | 3% | 4 (30%) | 3 (0%) | 3 (1%) | 3 (20%) | 3 (20%) | 4 (34%) | 3 (0%) |
| Remaining in Delta | -5000 | 2% | 2 (0%) | 2 (-13%) | 2 (-15%) | 2 (-18%) | 2 (-18%) | 2 (-16%) | 2 (-9%) |
| Remaining in Delta | -5500 | 2% | 1 (-40%) | 2 (-2%) | 2 (-5%) | 2 (0%) | 2 (0%) | 2 (4%) | 2 (15%) |
| Crossed SJR to South Delta | -2000 | -15% | -16 (10%) | -14 (-5%) | -14 (-2%) | -18 (21%) | -17 (19%) | -15 (6%) | -14 (-3%) |
| Crossed SJR to South Delta | -3500 | -12% | -10 (-19%) | -11 (-6%) | -11 (-5%) | -10 (-12%) | -10 (-13%) | -10 (-15%) | -11 (-8%) |
| Crossed SJR to South Delta | -5000 | -7% | -7 (-8%) | -8 (9%) | -8 (9%) | -8 (10%) | -8 (9%) | -10 (32%) | -9 (14%) |
| Crossed SJR to South Delta | -5500 | -2% | -4 (150%) | -2 (10%) | -2 (4%) | -2 (3%) | -2 (3%) | -3 (69%) | -3 (94%) |

Table I.8-67. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Southern Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|------|----------|-------------------|--------------------|-----------------------|---------------------|----------|----------|
| West of Chipps | -2000 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| West of Chipps | -3500 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| West of Chipps | -5000 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| West of Chipps | -5500 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Entrained at Exports | -2000 | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | -3500 | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | -5000 | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Entrained at Exports | -5500 | 100% | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) | 100 (0%) |
| Remaining in Delta | -2000 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Remaining in Delta | -3500 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Remaining in Delta | -5000 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Remaining in Delta | -5500 | 0% | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Crossed SJR to South Delta | -2000 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | -3500 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | -5000 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crossed SJR to South Delta | -5500 | 0% | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Table I.8-68. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Central Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 44% | 55 (24%) | 40 (-8%) | 43 (-3%) | 62 (41%) | 59 (34%) | 60 (37%) | 39 (-10%) |
| West of Chipps | -3500 | 61% | 47 (-23%) | 60 (-2%) | 60 (-2%) | 55 (-9%) | 55 (-10%) | 51 (-17%) | 57 (-7%) |
| West of Chipps | -5000 | 50% | 43 (-14%) | 54 (7%) | 54 (8%) | 55 (10%) | 55 (9%) | 66 (31%) | 54 (8%) |
| West of Chipps | -5500 | 11% | 37 (252%) | 12 (10%) | 11 (6%) | 11 (4%) | 11 (3%) | 18 (74%) | 21 (95%) |
| Entrained at Exports | -2000 | 24% | 22 (-8%) | 26 (9%) | 25 (8%) | 15 (-37%) | 17 (-29%) | 18 (-23%) | 25 (5%) |
| Entrained at Exports | -3500 | 28% | 37 (34%) | 29 (7%) | 29 (6%) | 32 (17%) | 32 (17%) | 35 (26%) | 31 (11%) |
| Entrained at Exports | -5000 | 42% | 46 (9%) | 39 (-7%) | 39 (-7%) | 39 (-8%) | 39 (-7%) | 29 (-31%) | 38 (-9%) |
| Entrained at Exports | -5500 | 81% | 58 (-28%) | 80 (-1%) | 80 (-1%) | 80 (-1%) | 80 (-1%) | 72 (-11%) | 69 (-14%) |
| Remaining in Delta | -2000 | 32% | 24 (-27%) | 34 (5%) | 32 (-2%) | 23 (-28%) | 24 (-25%) | 21 (-34%) | 36 (11%) |
| Remaining in Delta | -3500 | 11% | 16 (37%) | 11 (-5%) | 11 (-5%) | 13 (10%) | 13 (10%) | 14 (26%) | 12 (7%) |
| Remaining in Delta | -5000 | 8% | 11 (40%) | 7 (-9%) | 7 (-12%) | 6 (-20%) | 6 (-20%) | 5 (-37%) | 8 (-1%) |
| Remaining in Delta | -5500 | 9% | 4 (-51%) | 8 (-2%) | 8 (-2%) | 9 (0%) | 9 (2%) | 10 (13%) | 10 (15%) |
| Crossed SJR to South Delta | -2000 | 36% | 32 (-11%) | 39 (7%) | 38 (4%) | 25 (-33%) | 27 (-26%) | 29 (-21%) | 38 (5%) |
| Crossed SJR to South Delta | -3500 | 33% | 44 (35%) | 35 (5%) | 34 (5%) | 38 (16%) | 38 (16%) | 42 (28%) | 36 (11%) |
| Crossed SJR to South Delta | -5000 | 46% | 51 (11%) | 43 (-7%) | 43 (-7%) | 42 (-9%) | 42 (-8%) | 32 (-30%) | 42 (-9%) |
| Crossed SJR to South Delta | -5500 | 85% | 61 (-28%) | 84 (-1%) | 84 (-1%) | 84 (0%) | 85 (0%) | 77 (-9%) | 74 (-13%) |

Table I.8-69. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Sacramento River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 67% | 74 (10%) | 65 (-4%) | 69 (2%) | 82 (22%) | 79 (17%) | 86 (28%) | 64 (-5%) |
| West of Chipps | -3500 | 87% | 75 (-14%) | 89 (2%) | 89 (1%) | 85 (-2%) | 85 (-2%) | 83 (-5%) | 87 (-1%) |
| West of Chipps | -5000 | 85% | 77 (-9%) | 85 (0%) | 85 (1%) | 86 (2%) | 86 (2%) | 94 (11%) | 86 (2%) |
| West of Chipps | -5500 | 48% | 80 (66%) | 50 (5%) | 49 (3%) | 49 (2%) | 49 (2%) | 62 (28%) | 58 (21%) |
| Entrained at Exports | -2000 | 6% | 7 (11%) | 7 (13%) | 6 (7%) | 3 (-53%) | 4 (-40%) | 3 (-47%) | 6 (8%) |
| Entrained at Exports | -3500 | 5% | 11 (137%) | 5 (-1%) | 5 (-1%) | 6 (22%) | 6 (22%) | 7 (45%) | 5 (9%) |
| Entrained at Exports | -5000 | 9% | 13 (52%) | 8 (-5%) | 8 (-6%) | 8 (-9%) | 8 (-7%) | 4 (-56%) | 8 (-14%) |
| Entrained at Exports | -5500 | 35% | 16 (-54%) | 34 (-4%) | 34 (-2%) | 34 (-3%) | 34 (-3%) | 25 (-27%) | 26 (-26%) |
| Remaining in Delta | -2000 | 27% | 19 (-28%) | 28 (6%) | 25 (-7%) | 15 (-44%) | 17 (-35%) | 11 (-59%) | 30 (11%) |
| Remaining in Delta | -3500 | 8% | 14 (77%) | 6 (-17%) | 7 (-14%) | 9 (14%) | 9 (14%) | 10 (32%) | 8 (1%) |
| Remaining in Delta | -5000 | 7% | 10 (53%) | 7 (1%) | 6 (-2%) | 6 (-15%) | 6 (-15%) | 2 (-63%) | 6 (-4%) |
| Remaining in Delta | -5500 | 17% | 5 (-73%) | 16 (-5%) | 17 (-4%) | 17 (0%) | 17 (0%) | 13 (-24%) | 16 (-6%) |
| Crossed SJR to South Delta | -2000 | 12% | 12 (3%) | 13 (9%) | 12 (-1%) | 6 (-49%) | 8 (-37%) | 6 (-48%) | 13 (5%) |
| Crossed SJR to South Delta | -3500 | 7% | 16 (133%) | 6 (-4%) | 6 (-4%) | 8 (21%) | 8 (20%) | 10 (48%) | 7 (8%) |
| Crossed SJR to South Delta | -5000 | 11% | 17 (57%) | 10 (-4%) | 10 (-5%) | 10 (-9%) | 10 (-8%) | 5 (-57%) | 9 (-13%) |
| Crossed SJR to South Delta | -5500 | 40% | 18 (-57%) | 39 (-4%) | 40 (-2%) | 39 (-2%) | 39 (-2%) | 30 (-25%) | 31 (-24%) |

Table I.8-70. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Mokelumne River for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 26% | 37 (42%) | 21 (-20%) | 22 (-15%) | 44 (67%) | 43 (62%) | 40 (52%) | 20 (-23%) |
| West of Chipps | -3500 | 45% | 30 (-32%) | 42 (-6%) | 42 (-6%) | 38 (-16%) | 37 (-16%) | 32 (-28%) | 39 (-13%) |
| West of Chipps | -5000 | 33% | 27 (-19%) | 39 (16%) | 39 (17%) | 40 (21%) | 40 (18%) | 50 (49%) | 38 (13%) |
| West of Chipps | -5500 | 2% | 21 (910%) | 3 (22%) | 2 (13%) | 2 (9%) | 2 (6%) | 5 (142%) | 10 (394%) |
| Entrained at Exports | -2000 | 23% | 26 (13%) | 25 (9%) | 27 (15%) | 16 (-30%) | 17 (-27%) | 20 (-15%) | 24 (3%) |
| Entrained at Exports | -3500 | 34% | 46 (34%) | 38 (10%) | 37 (10%) | 39 (15%) | 39 (15%) | 41 (20%) | 38 (12%) |
| Entrained at Exports | -5000 | 53% | 56 (7%) | 48 (-8%) | 48 (-8%) | 48 (-9%) | 49 (-7%) | 40 (-23%) | 49 (-7%) |
| Entrained at Exports | -5500 | 78% | 73 (-6%) | 78 (0%) | 78 (0%) | 79 (0%) | 78 (0%) | 73 (-6%) | 69 (-11%) |
| Remaining in Delta | -2000 | 50% | 36 (-28%) | 54 (7%) | 51 (1%) | 40 (-21%) | 40 (-20%) | 40 (-20%) | 56 (10%) |
| Remaining in Delta | -3500 | 21% | 24 (14%) | 20 (-3%) | 21 (-3%) | 23 (10%) | 23 (10%) | 27 (28%) | 23 (7%) |
| Remaining in Delta | -5000 | 14% | 17 (20%) | 13 (-9%) | 12 (-11%) | 12 (-16%) | 12 (-16%) | 10 (-30%) | 14 (-3%) |
| Remaining in Delta | -5500 | 20% | 6 (-70%) | 19 (-1%) | 19 (-2%) | 19 (-2%) | 19 (-1%) | 22 (10%) | 20 (4%) |
| Crossed SJR to South Delta | -2000 | 43% | 42 (-2%) | 46 (7%) | 48 (11%) | 34 (-22%) | 34 (-22%) | 38 (-11%) | 47 (8%) |
| Crossed SJR to South Delta | -3500 | 45% | 57 (29%) | 48 (7%) | 47 (6%) | 50 (13%) | 50 (13%) | 54 (21%) | 49 (11%) |
| Crossed SJR to South Delta | -5000 | 59% | 64 (8%) | 54 (-8%) | 54 (-9%) | 54 (-10%) | 54 (-8%) | 46 (-23%) | 55 (-7%) |
| Crossed SJR to South Delta | -5500 | 85% | 76 (-11%) | 85 (0%) | 86 (0%) | 86 (1%) | 86 (0%) | 82 (-3%) | 77 (-9%) |

Table I.8-71. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Yolo Bypass for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|-----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 42% | 49 (16%) | 40 (-5%) | 43 (2%) | 54 (27%) | 52 (23%) | 60 (40%) | 39 (-7%) |
| West of Chipps | -3500 | 61% | 51 (-17%) | 63 (3%) | 63 (3%) | 62 (1%) | 61 (1%) | 60 (-1%) | 61 (0%) |
| West of Chipps | -5000 | 65% | 54 (-16%) | 66 (2%) | 66 (2%) | 67 (4%) | 67 (4%) | 73 (13%) | 65 (0%) |
| West of Chipps | -5500 | 34% | 62 (80%) | 36 (6%) | 36 (4%) | 35 (2%) | 35 (3%) | 46 (35%) | 42 (23%) |
| Entrained at Exports | -2000 | 3% | 3 (6%) | 3 (16%) | 3 (10%) | 1 (-57%) | 1 (-47%) | 1 (-56%) | 3 (11%) |
| Entrained at Exports | -3500 | 2% | 5 (200%) | 2 (-4%) | 2 (-5%) | 2 (24%) | 2 (25%) | 3 (54%) | 2 (7%) |
| Entrained at Exports | -5000 | 3% | 6 (66%) | 3 (-6%) | 3 (-7%) | 3 (-12%) | 3 (-9%) | 1 (-66%) | 3 (-15%) |
| Entrained at Exports | -5500 | 16% | 7 (-57%) | 16 (-4%) | 16 (-3%) | 16 (-4%) | 16 (-3%) | 11 (-33%) | 12 (-28%) |
| Remaining in Delta | -2000 | 55% | 48 (-12%) | 56 (3%) | 54 (-2%) | 45 (-18%) | 46 (-16%) | 39 (-29%) | 58 (5%) |
| Remaining in Delta | -3500 | 37% | 44 (18%) | 35 (-5%) | 35 (-5%) | 36 (-3%) | 36 (-2%) | 37 (0%) | 37 (0%) |
| Remaining in Delta | -5000 | 32% | 40 (26%) | 31 (-2%) | 31 (-3%) | 30 (-7%) | 29 (-7%) | 26 (-20%) | 32 (1%) |
| Remaining in Delta | -5500 | 49% | 31 (-37%) | 48 (-3%) | 48 (-2%) | 49 (0%) | 49 (-1%) | 43 (-13%) | 46 (-7%) |
| Crossed SJR to South Delta | -2000 | 7% | 7 (-3%) | 8 (12%) | 7 (1%) | 4 (-48%) | 4 (-39%) | 3 (-52%) | 8 (10%) |
| Crossed SJR to South Delta | -3500 | 3% | 9 (166%) | 3 (-7%) | 3 (-6%) | 4 (19%) | 4 (19%) | 5 (49%) | 4 (9%) |
| Crossed SJR to South Delta | -5000 | 5% | 9 (71%) | 5 (-5%) | 5 (-6%) | 5 (-13%) | 5 (-11%) | 2 (-64%) | 5 (-12%) |
| Crossed SJR to South Delta | -5500 | 22% | 9 (-59%) | 21 (-5%) | 21 (-3%) | 21 (-3%) | 21 (-3%) | 15 (-31%) | 17 (-25%) |

Table I.8-72. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Western Delta for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|----------|----------------|-----------------|--------------------|------------------|-----------|-----------|
| West of Chipps | -2000 | 90% | 94 (5%) | 90 (-1%) | 91 (1%) | 95 (6%) | 94 (4%) | 97 (8%) | 90 (-1%) |
| West of Chipps | -3500 | 97% | 95 (-3%) | 98 (1%) | 98 (0%) | 96 (-1%) | 96 (-1%) | 96 (-1%) | 97 (0%) |
| West of Chipps | -5000 | 96% | 94 (-2%) | 96 (0%) | 96 (0%) | 96 (0%) | 96 (0%) | 99 (3%) | 96 (0%) |
| West of Chipps | -5500 | 77% | 94 (23%) | 78 (2%) | 78 (1%) | 77 (1%) | 77 (1%) | 86 (11%) | 83 (9%) |
| Entrained at Exports | -2000 | 1% | 1 (-8%) | 1 (12%) | 1 (-8%) | 0 (-65%) | 1 (-45%) | 0 (-65%) | 1 (-2%) |
| Entrained at Exports | -3500 | 1% | 2 (177%) | 1 (-13%) | 1 (-9%) | 1 (32%) | 1 (32%) | 1 (66%) | 1 (-2%) |
| Entrained at Exports | -5000 | 2% | 3 (48%) | 2 (3%) | 2 (3%) | 2 (0%) | 2 (-1%) | 0 (-74%) | 1 (-18%) |
| Entrained at Exports | -5500 | 14% | 4 (-74%) | 14 (-6%) | 14 (-3%) | 14 (-4%) | 14 (-4%) | 9 (-41%) | 9 (-38%) |
| Remaining in Delta | -2000 | 9% | 5 (-46%) | 9 (8%) | 8 (-12%) | 4 (-51%) | 6 (-35%) | 3 (-71%) | 9 (9%) |
| Remaining in Delta | -3500 | 2% | 4 (69%) | 2 (-23%) | 2 (-17%) | 3 (22%) | 3 (23%) | 3 (35%) | 2 (-5%) |
| Remaining in Delta | -5000 | 2% | 3 (33%) | 2 (9%) | 2 (7%) | 2 (-11%) | 2 (-13%) | 1 (-70%) | 2 (-5%) |
| Remaining in Delta | -5500 | 9% | 2 (-79%) | 8 (-8%) | 8 (-6%) | 9 (-1%) | 9 (-1%) | 6 (-33%) | 8 (-13%) |
| Crossed SJR to South Delta | -2000 | 2% | 2 (-10%) | 3 (9%) | 2 (-14%) | 1 (-60%) | 1 (-41%) | 1 (-64%) | 2 (-5%) |
| Crossed SJR to South Delta | -3500 | 1% | 3 (174%) | 1 (-16%) | 1 (-10%) | 1 (33%) | 1 (32%) | 2 (70%) | 1 (-3%) |
| Crossed SJR to South Delta | -5000 | 2% | 4 (54%) | 2 (4%) | 2 (4%) | 2 (-1%) | 2 (-1%) | 1 (-74%) | 2 (-17%) |
| Crossed SJR to South Delta | -5500 | 17% | 4 (-74%) | 16 (-6%) | 17 (-4%) | 17 (-3%) | 17 (-3%) | 11 (-38%) | 11 (-35%) |

Table I.8-73. Mean December through March surface-oriented particle fate by OMR bin for NAA, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4 – particle insertion location at Suisun Bay for all particle system exit points. Note that NA values result from no data falling into that OMR bin.

| Exit Point | OMR Bin | NAA | ALT1 | Alt2wTUCP woVA | Alt2woTUCP woVA | Alt2woTUCP DeltaVA | Alt2woTUCP AllVA | ALT3 | ALT4 |
|----------------------------|---------|-----|-----------|----------------|-----------------|--------------------|------------------|----------|----------|
| West of Chipps | -2000 | 91% | 69 (-24%) | 88 (-2%) | 89 (-2%) | 86 (-5%) | 90 (-1%) | 83 (-9%) | 90 (0%) |
| West of Chipps | -3500 | 89% | 70 (-22%) | 88 (-1%) | 89 (-1%) | 91 (1%) | 91 (2%) | 86 (-4%) | 85 (-5%) |
| West of Chipps | -5000 | 92% | 72 (-21%) | 94 (2%) | 94 (2%) | 94 (2%) | 93 (2%) | 94 (2%) | 93 (1%) |
| West of Chipps | -5500 | 86% | 84 (-3%) | 87 (2%) | 87 (2%) | 87 (1%) | 87 (1%) | 91 (6%) | 87 (1%) |
| Entrained at Exports | -2000 | 0% | 0 (-5%) | 0 (16%) | 0 (12%) | 0 (-73%) | 0 (-41%) | 0 (-87%) | 0 (36%) |
| Entrained at Exports | -3500 | 0% | 0 (278%) | 0 (-36%) | 0 (-32%) | 0 (17%) | 0 (48%) | 0 (12%) | 0 (-25%) |
| Entrained at Exports | -5000 | 0% | 0 (138%) | 0 (10%) | 0 (14%) | 0 (18%) | 0 (-6%) | 0 (-86%) | 0 (-6%) |
| Entrained at Exports | -5500 | 0% | 0 (-79%) | 0 (-6%) | 0 (-1%) | 0 (-3%) | 0 (-10%) | 0 (-50%) | 0 (-48%) |
| Remaining in Delta | -2000 | 9% | 31 (229%) | 12 (23%) | 11 (15%) | 14 (48%) | 10 (9%) | 17 (82%) | 10 (2%) |
| Remaining in Delta | -3500 | 11% | 30 (185%) | 12 (9%) | 11 (6%) | 9 (-12%) | 9 (-14%) | 14 (30%) | 15 (40%) |
| Remaining in Delta | -5000 | 8% | 28 (234%) | 6 (-22%) | 6 (-23%) | 6 (-22%) | 7 (-20%) | 6 (-25%) | 7 (-11%) |
| Remaining in Delta | -5500 | 14% | 16 (20%) | 12 (-10%) | 12 (-10%) | 13 (-8%) | 12 (-9%) | 9 (-37%) | 13 (-5%) |
| Crossed SJR to South Delta | -2000 | 0% | 0 (-26%) | 0 (-7%) | 0 (-14%) | 0 (-68%) | 0 (-42%) | 0 (-86%) | 0 (-7%) |
| Crossed SJR to South Delta | -3500 | 0% | 0 (285%) | 0 (-33%) | 0 (-20%) | 0 (52%) | 0 (73%) | 0 (62%) | 0 (-15%) |
| Crossed SJR to South Delta | -5000 | 0% | 0 (136%) | 0 (31%) | 0 (31%) | 0 (22%) | 0 (-4%) | 0 (-82%) | 0 (4%) |
| Crossed SJR to South Delta | -5500 | 0% | 0 (-81%) | 0 (-10%) | 0 (-5%) | 0 (0%) | 0 (-4%) | 0 (-56%) | 0 (-49%) |

I.8.4.4 Figures

I.8.4.4.1 Neutrally Buoyant, Inflow and OMR Bins [BA, Figure I.8-2 through Figure I.8-19]

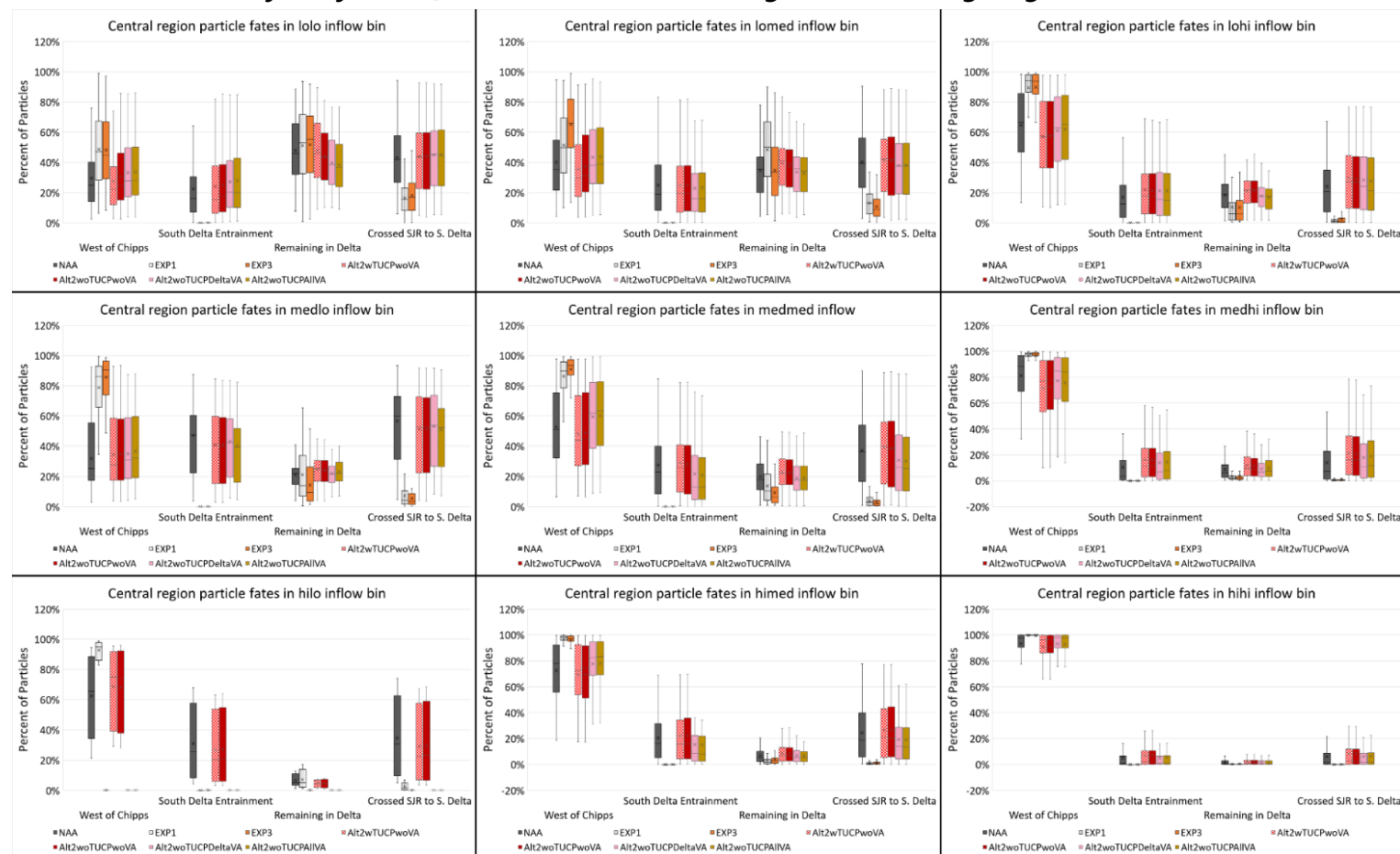


Figure I.8-2. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Central Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

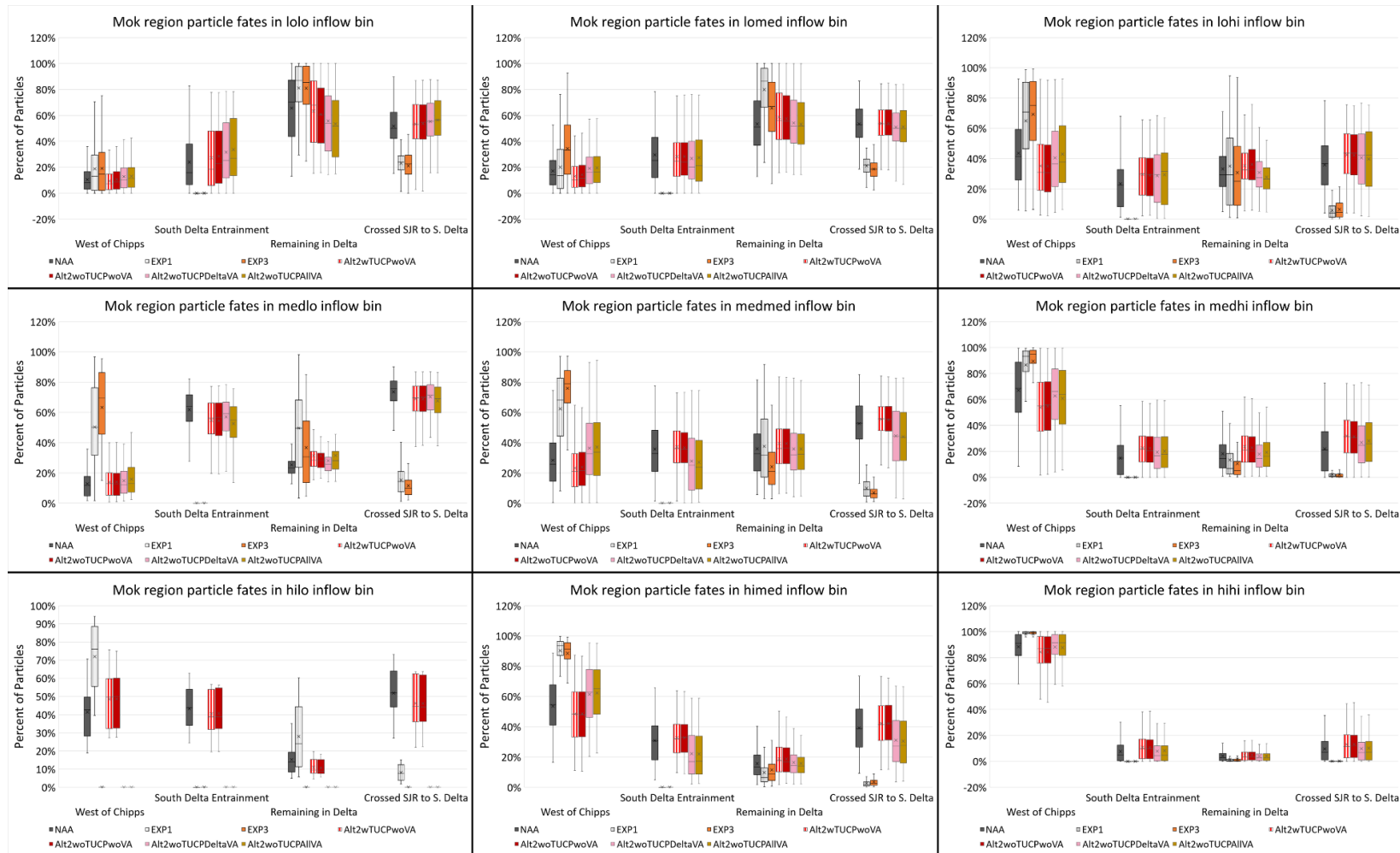


Figure I.8-3. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Mokelumne River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

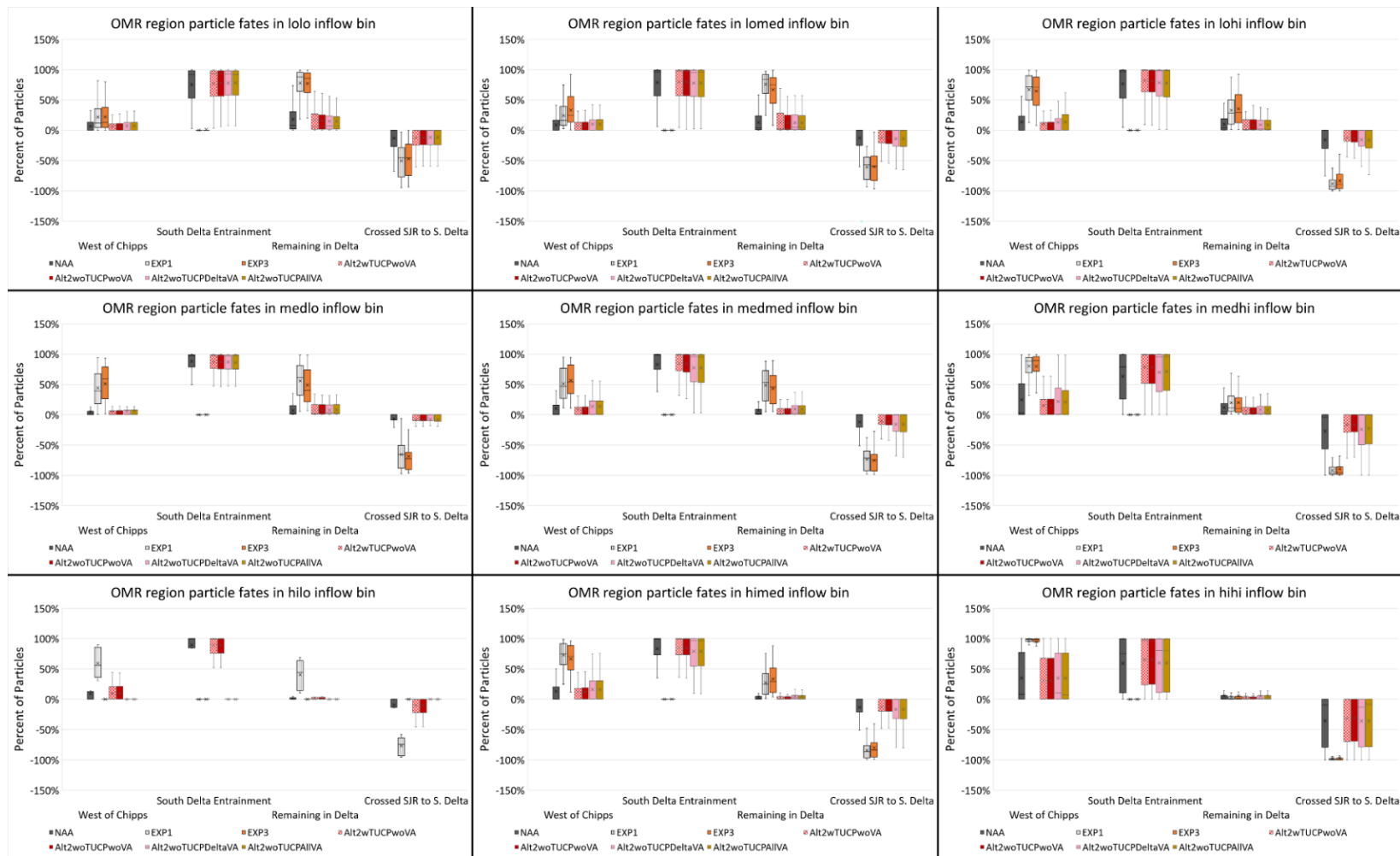


Figure I.8-4. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Old and Middle River region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

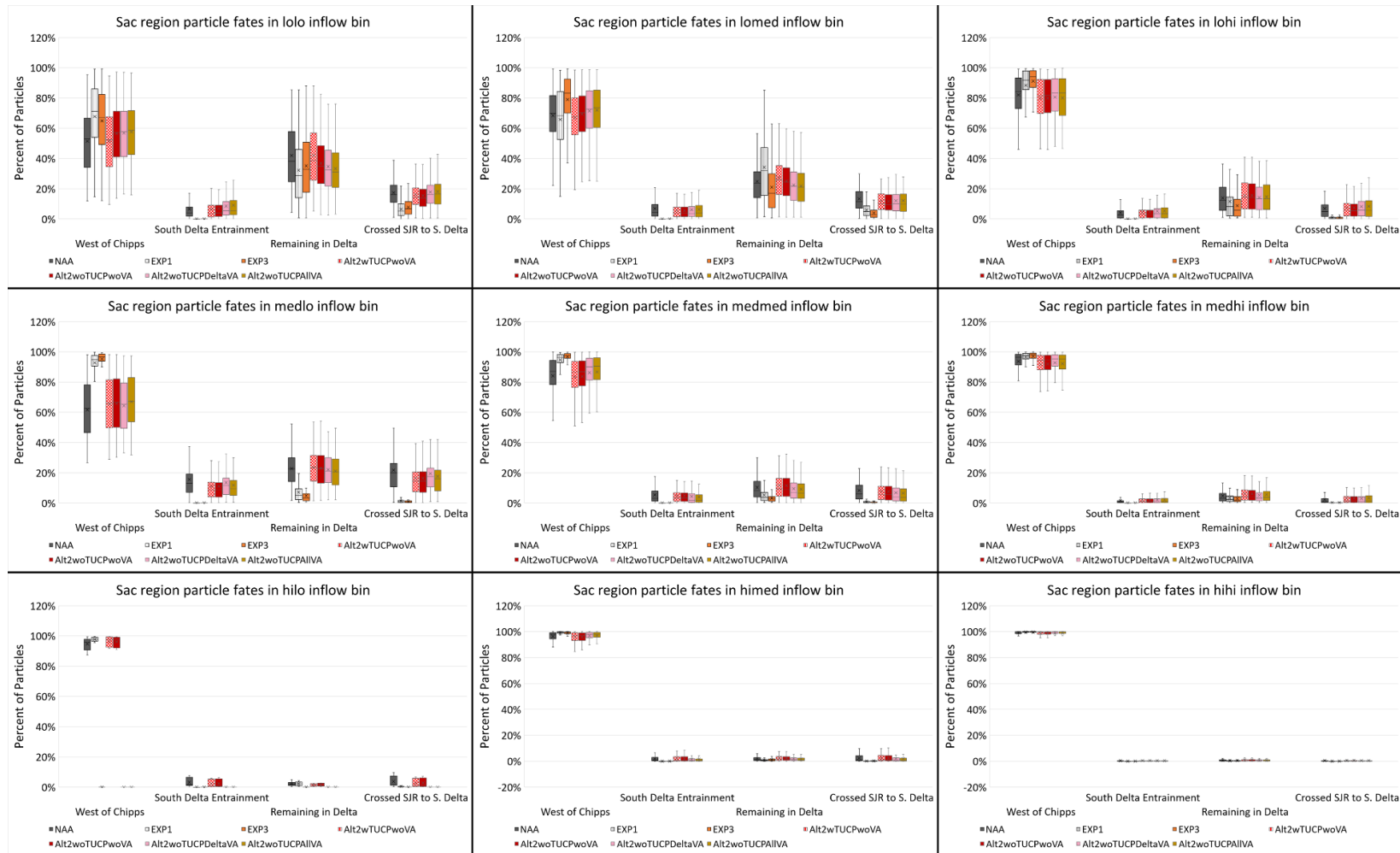


Figure I.8-5. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Sacramento River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

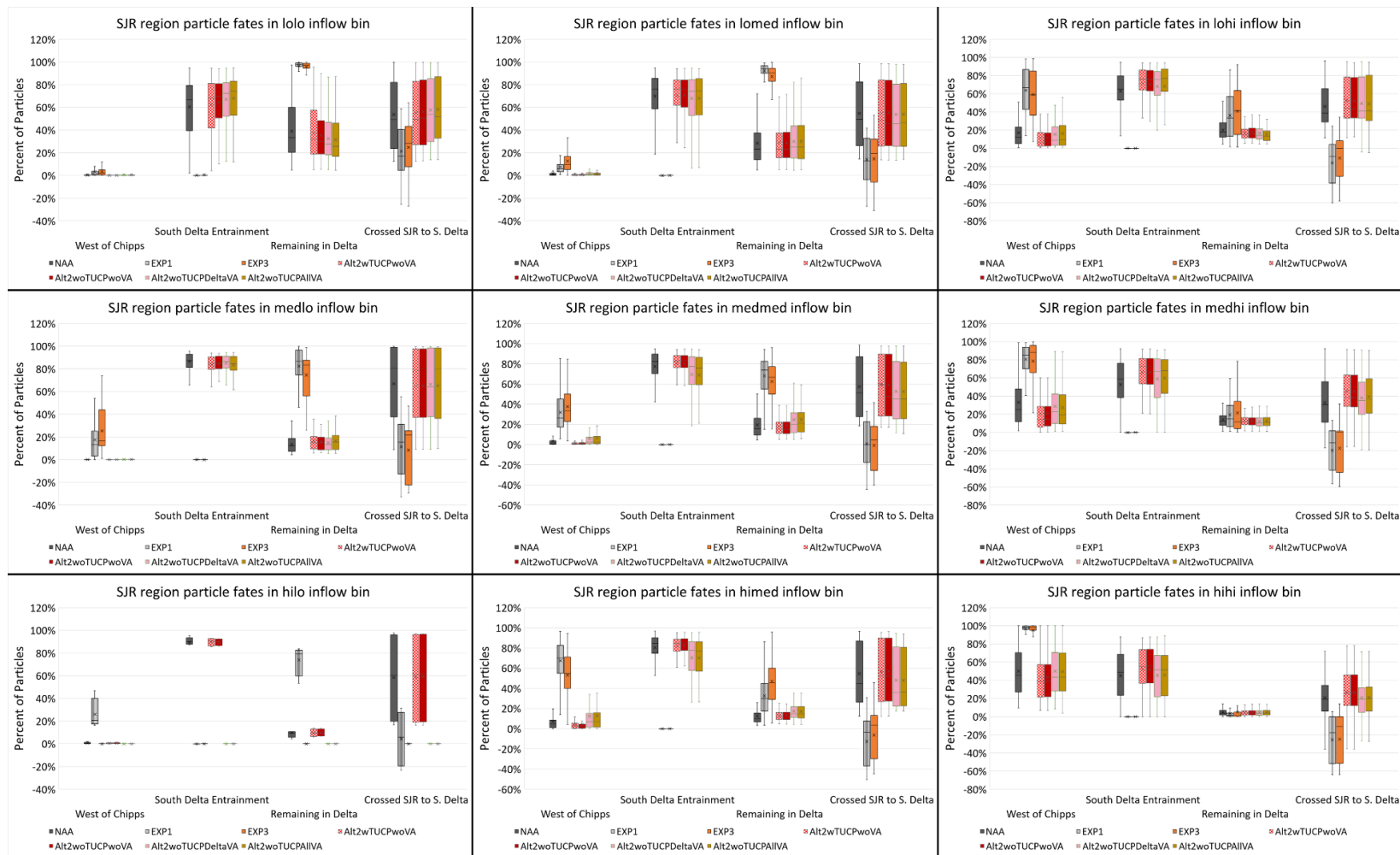


Figure I.8-6. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at San Joaquin River region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

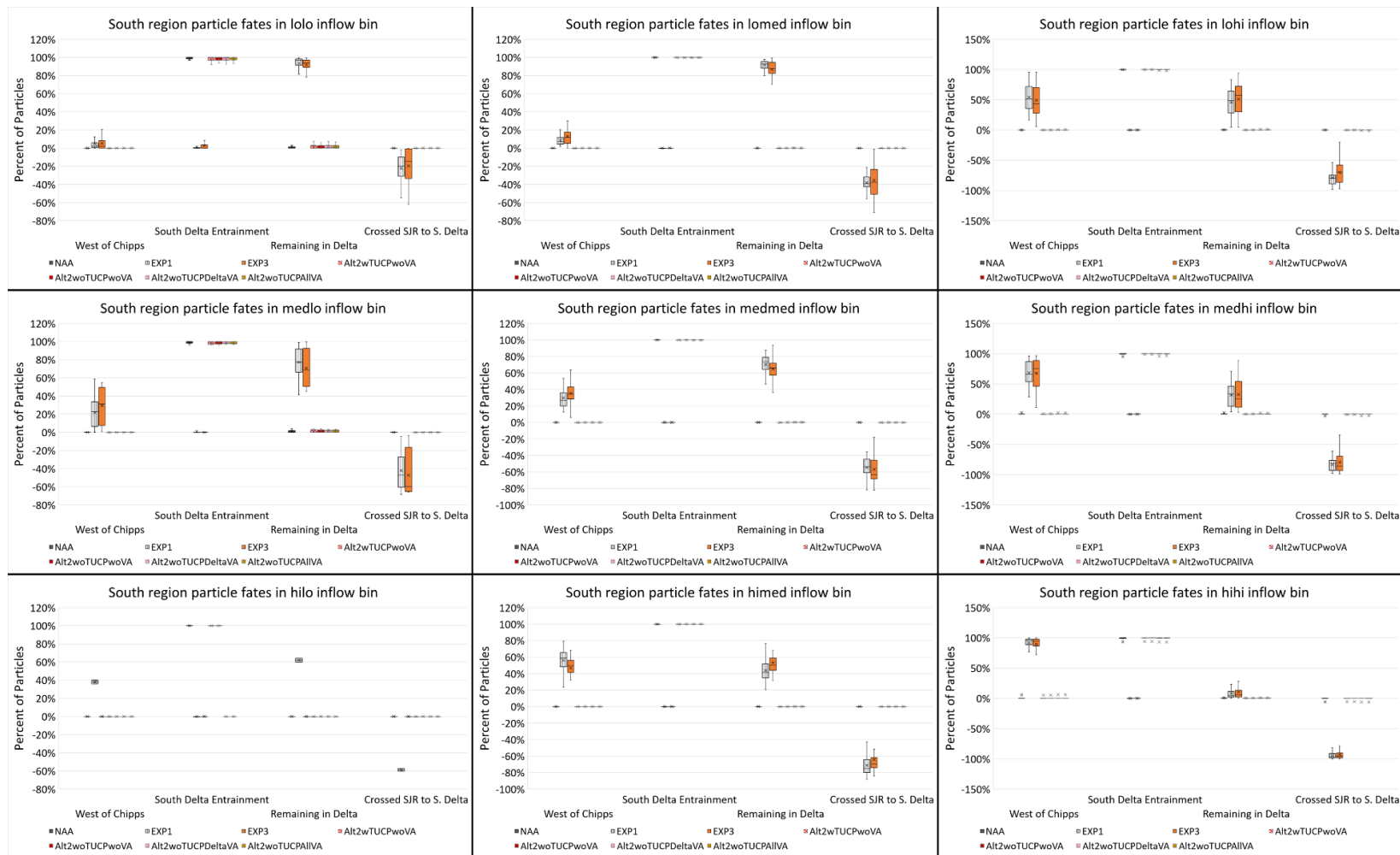


Figure I.8-7. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at South Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

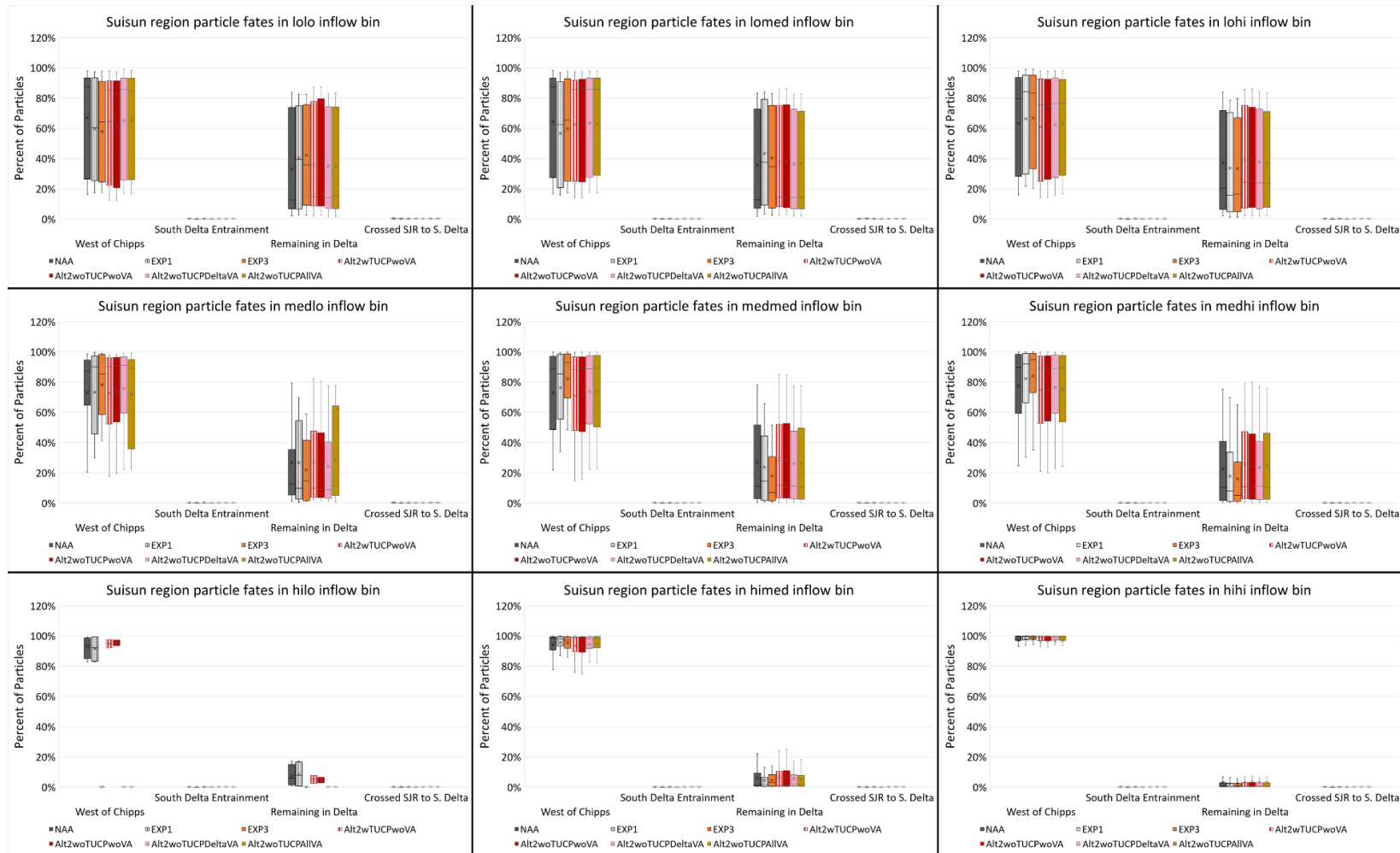


Figure I.8-8. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Suisun region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.



Figure I.8-9. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at West Delta region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

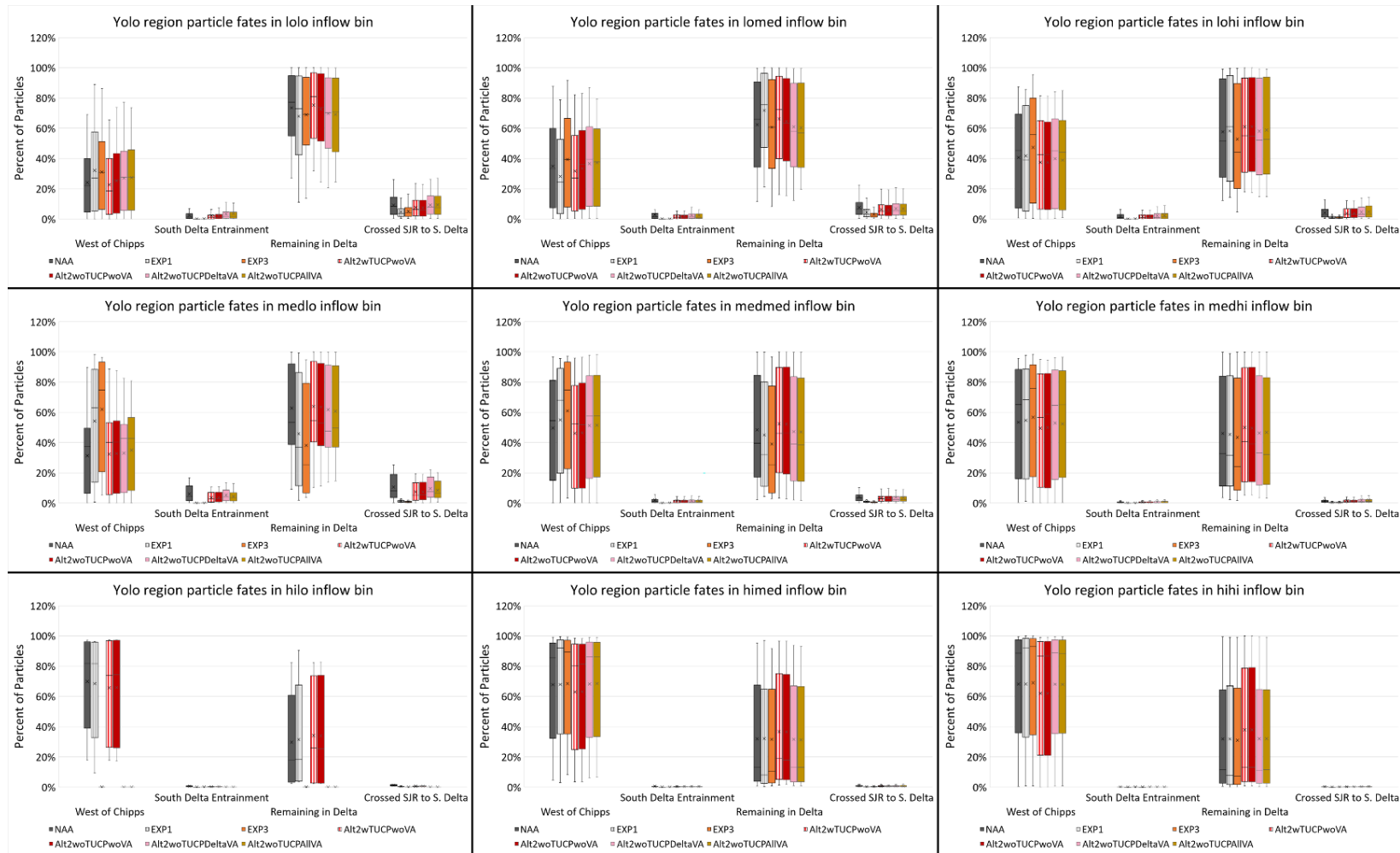


Figure I.8-10. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Yolo region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

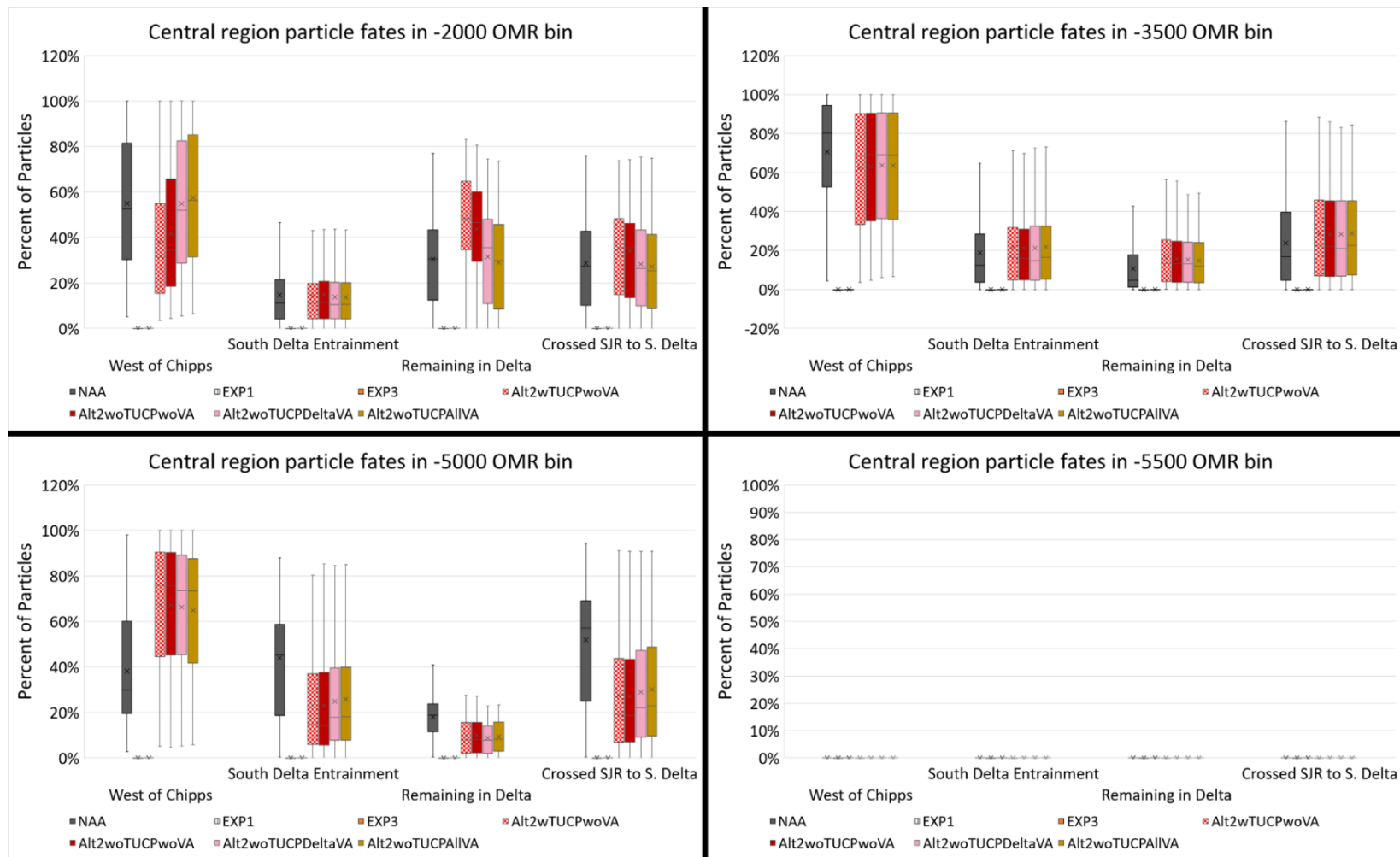


Figure I.8-11. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Central Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

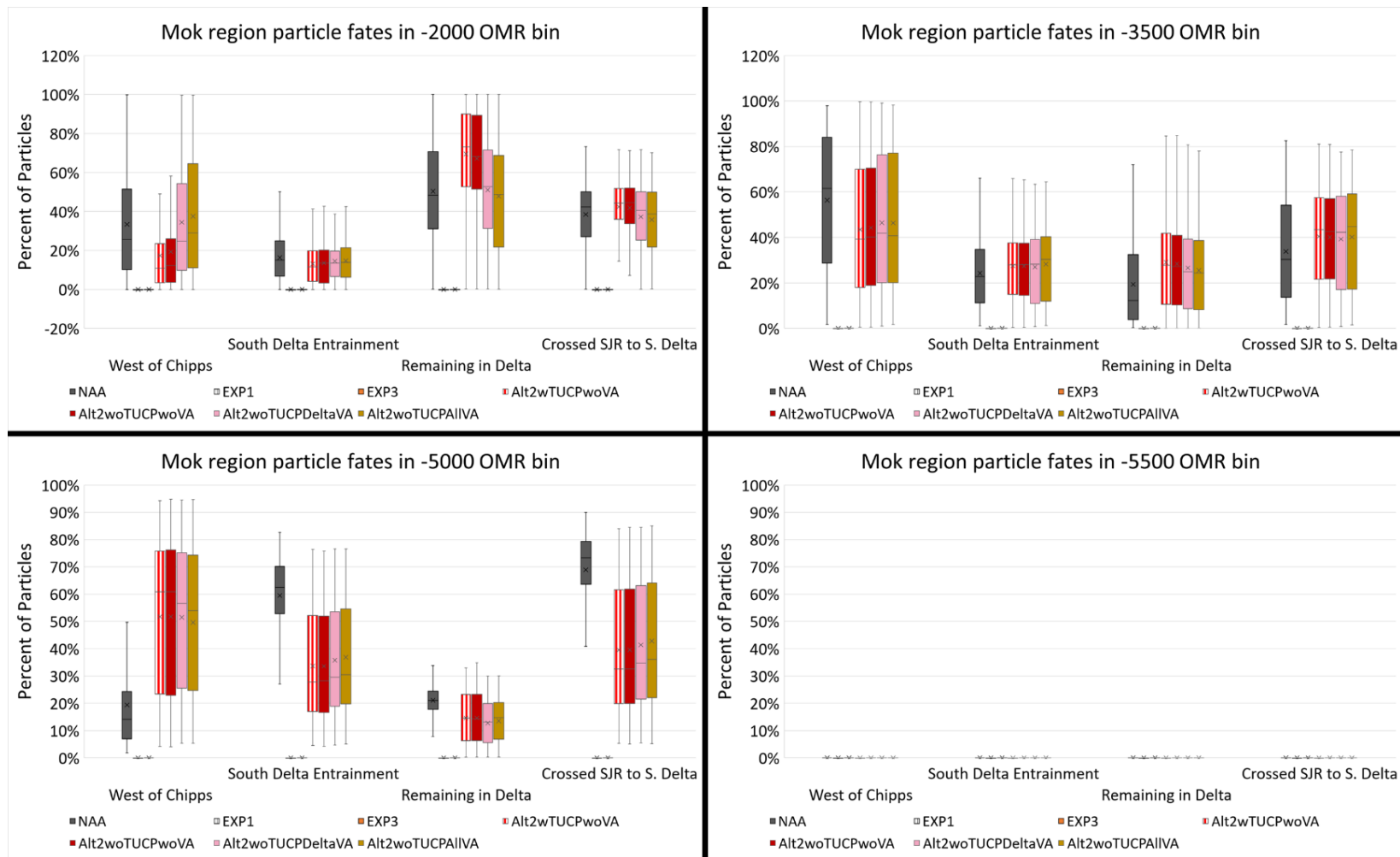


Figure I.8-12. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Mokelumne River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

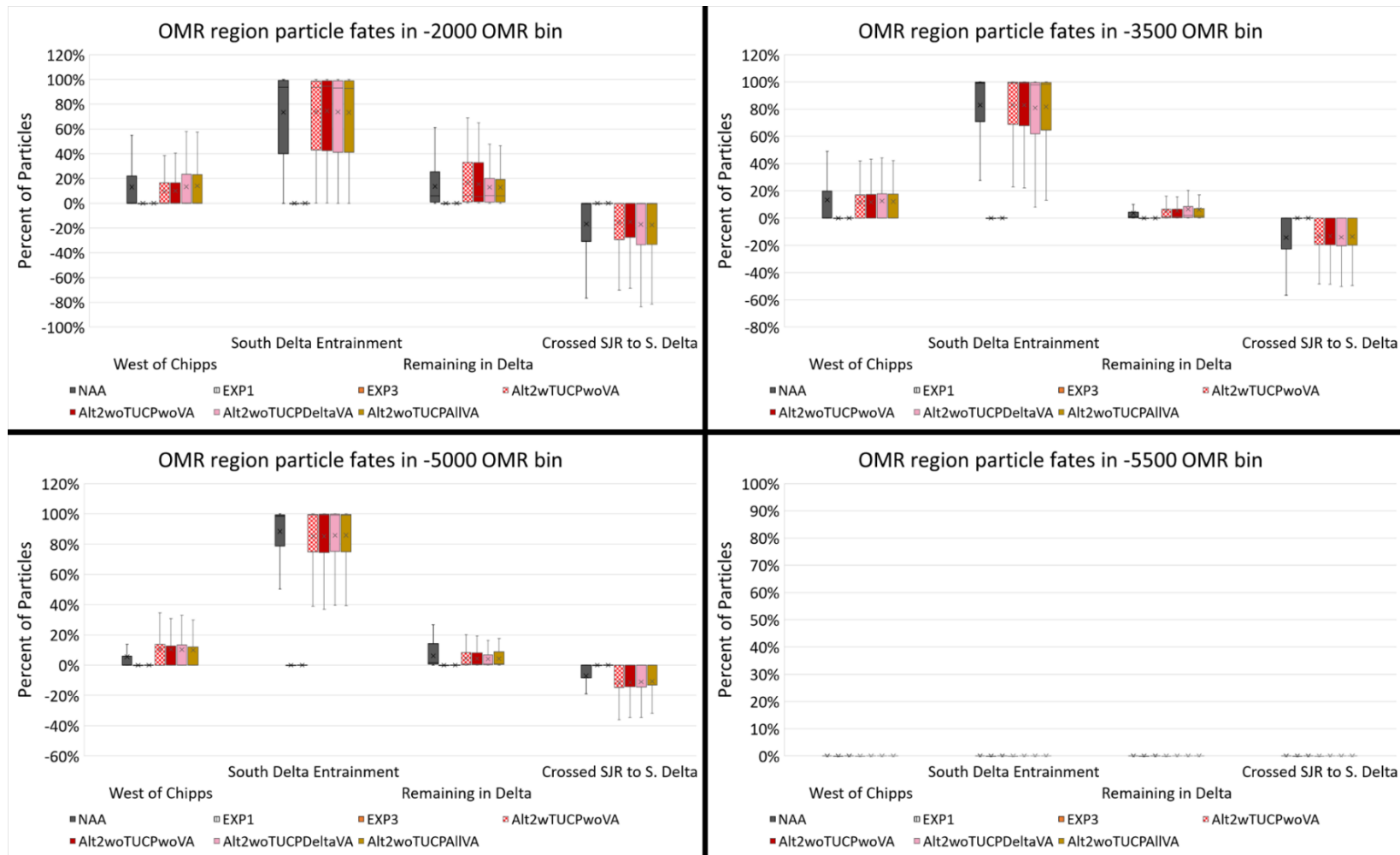


Figure I.8-13. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Old and Middle River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

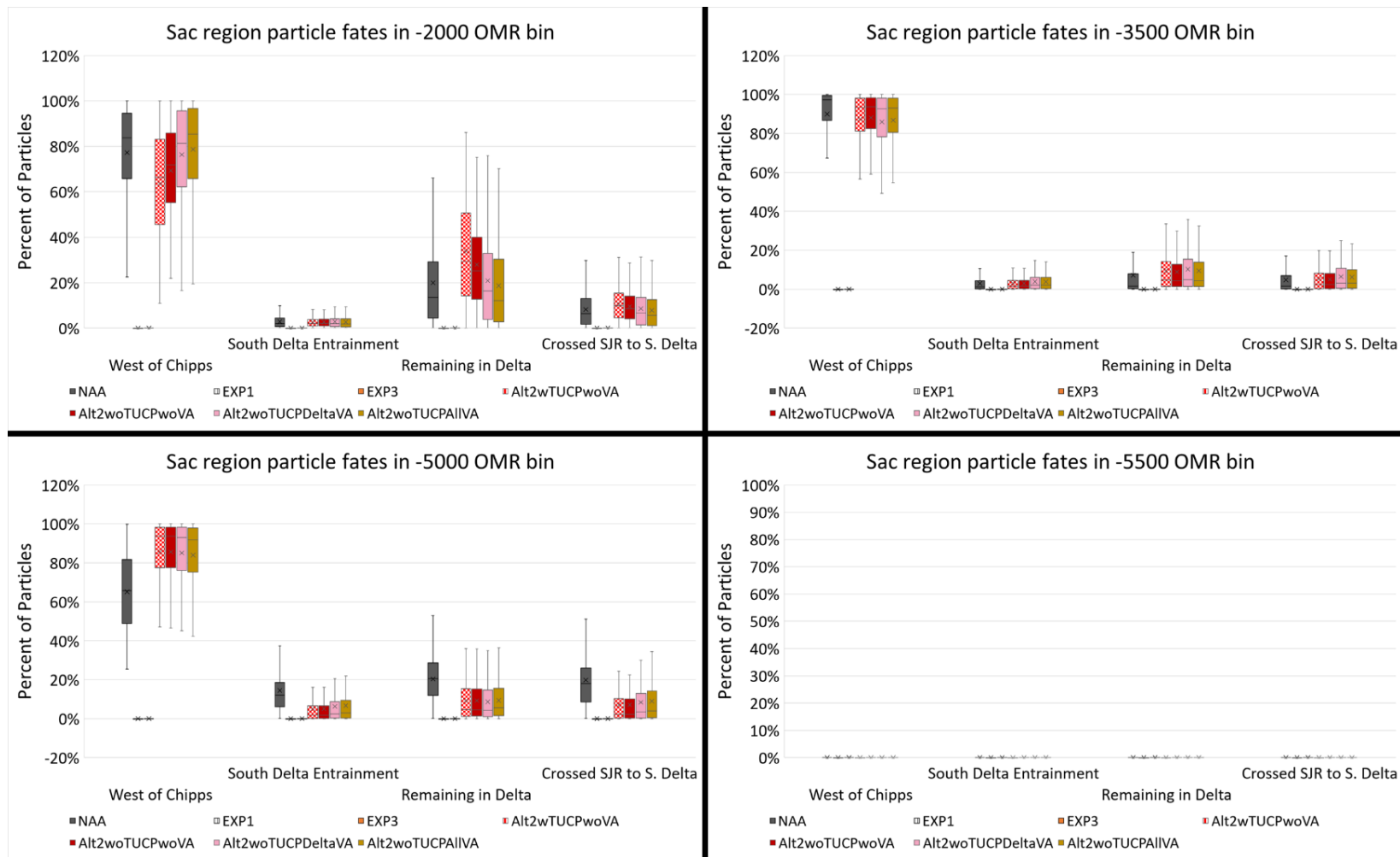


Figure I.8-14. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Sacramento River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

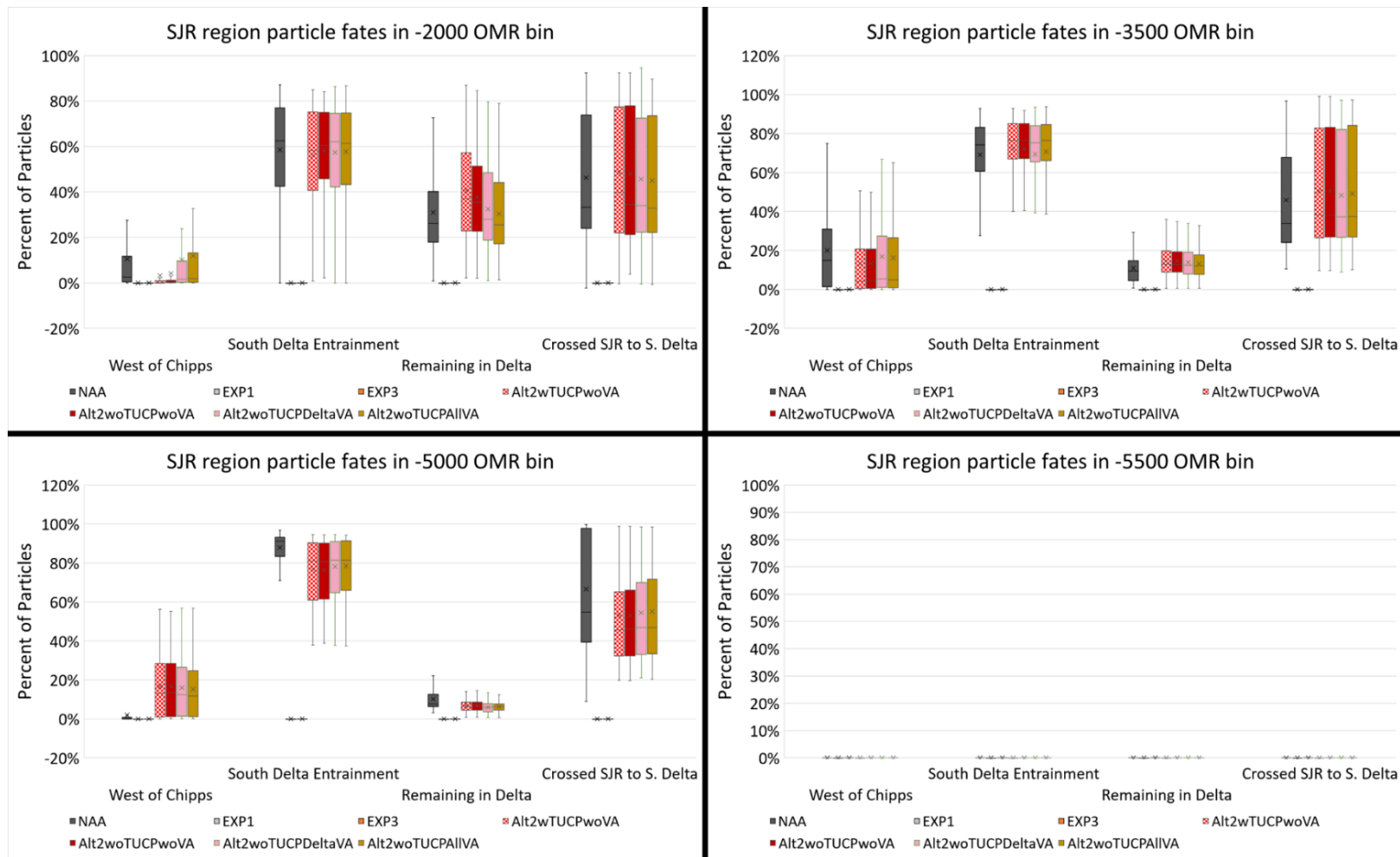


Figure I.8-15. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at San Joaquin River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

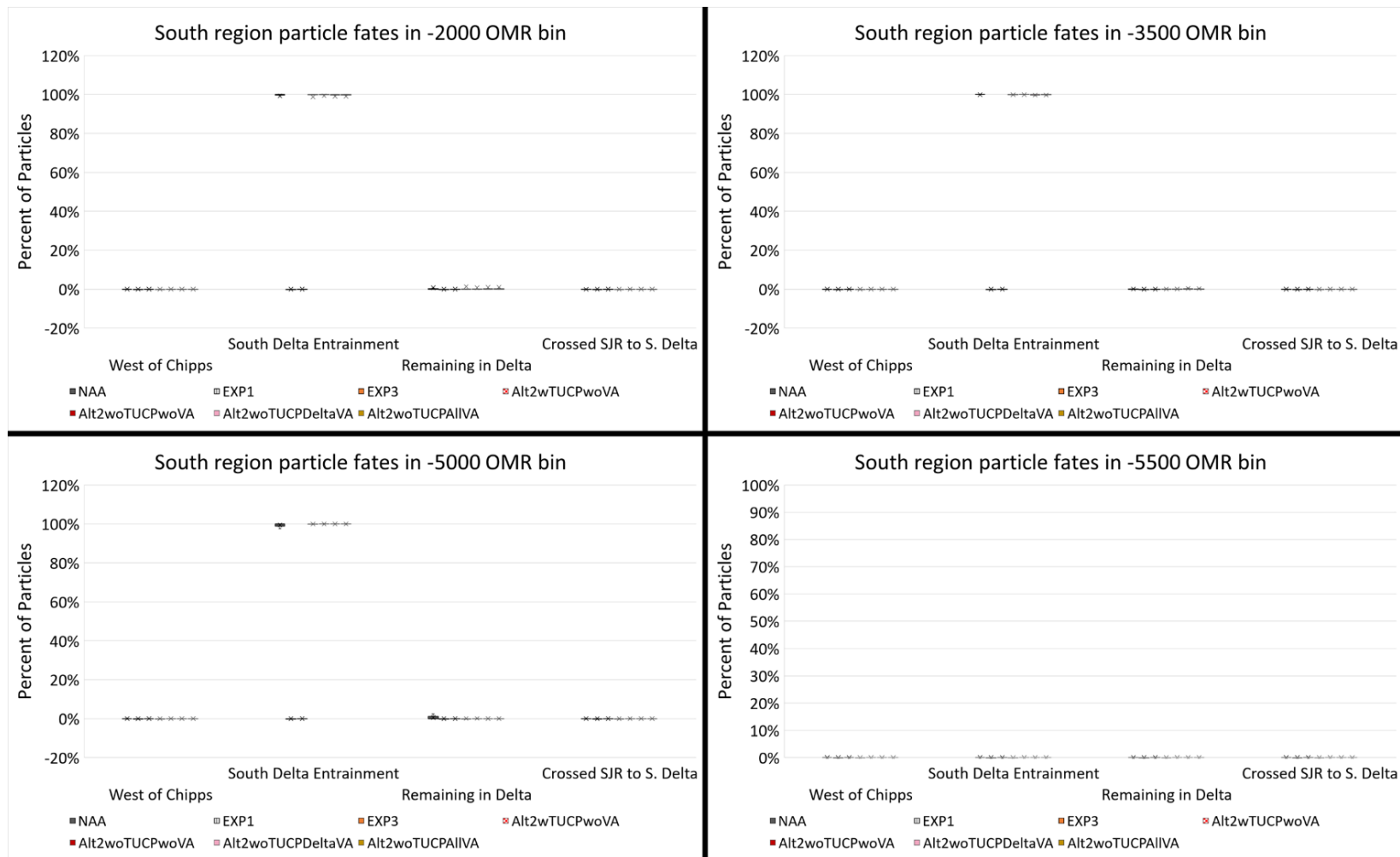


Figure I.8-16. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at South Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

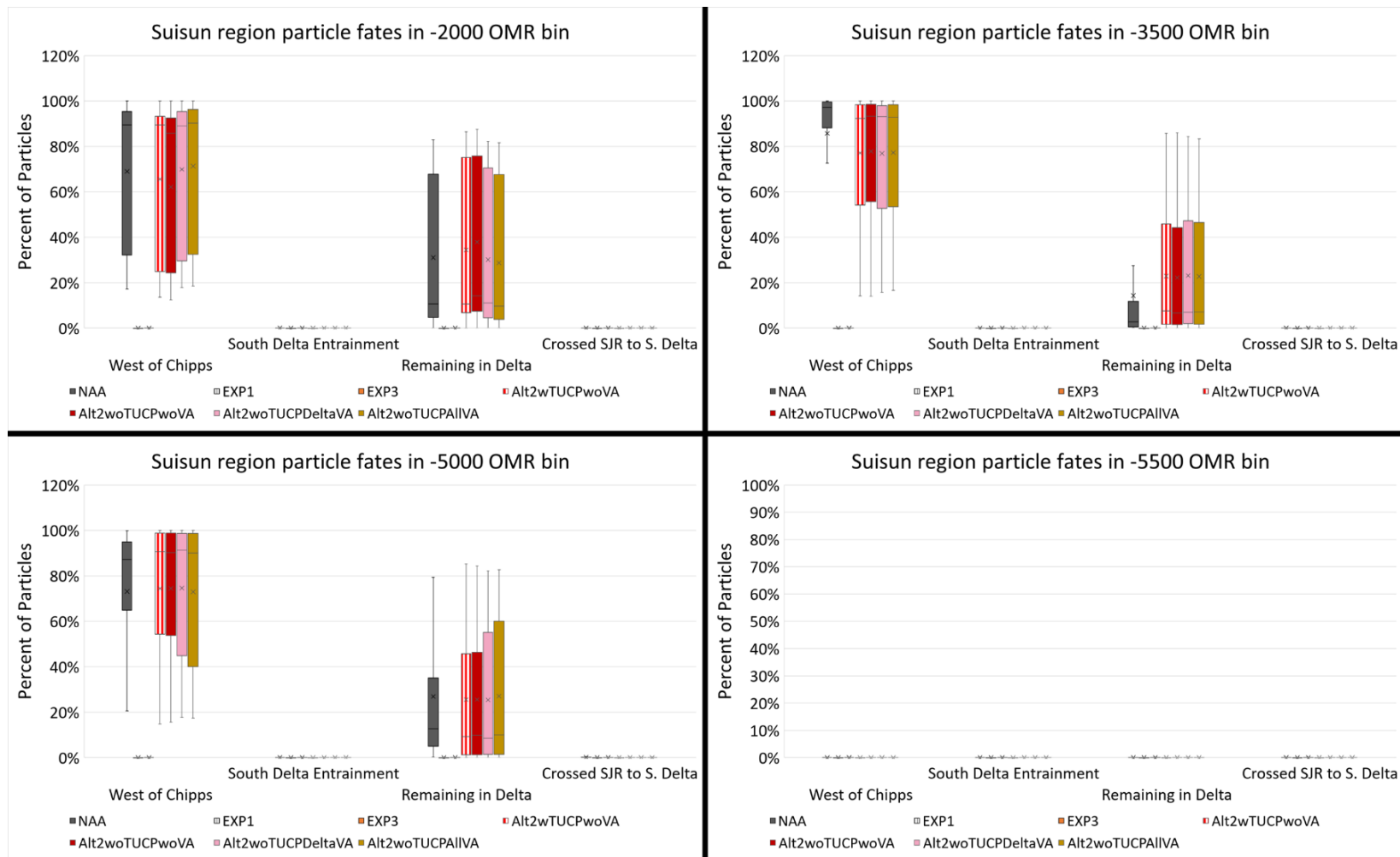


Figure I.8-17. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Suisun region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

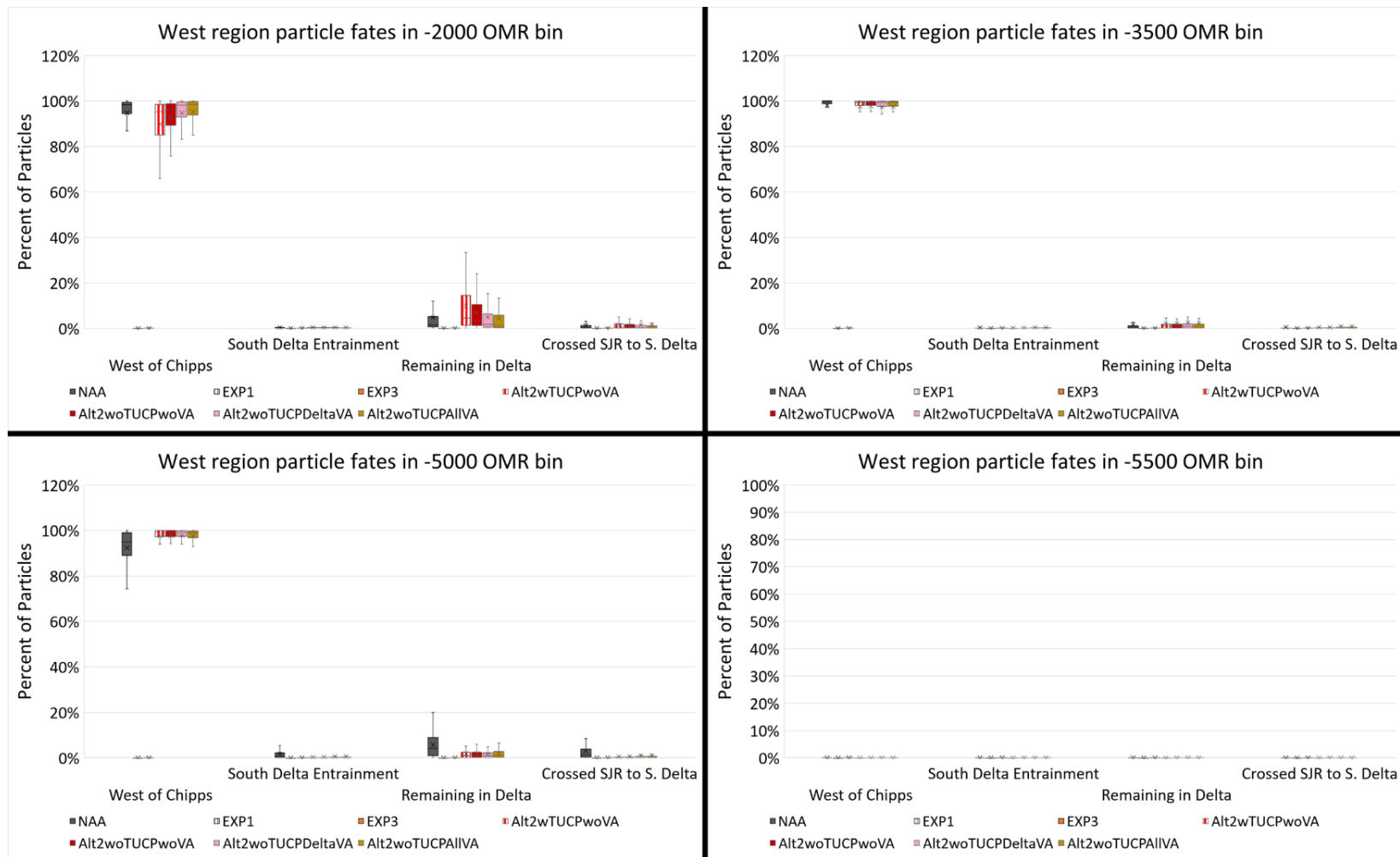


Figure I.8-18. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at West Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

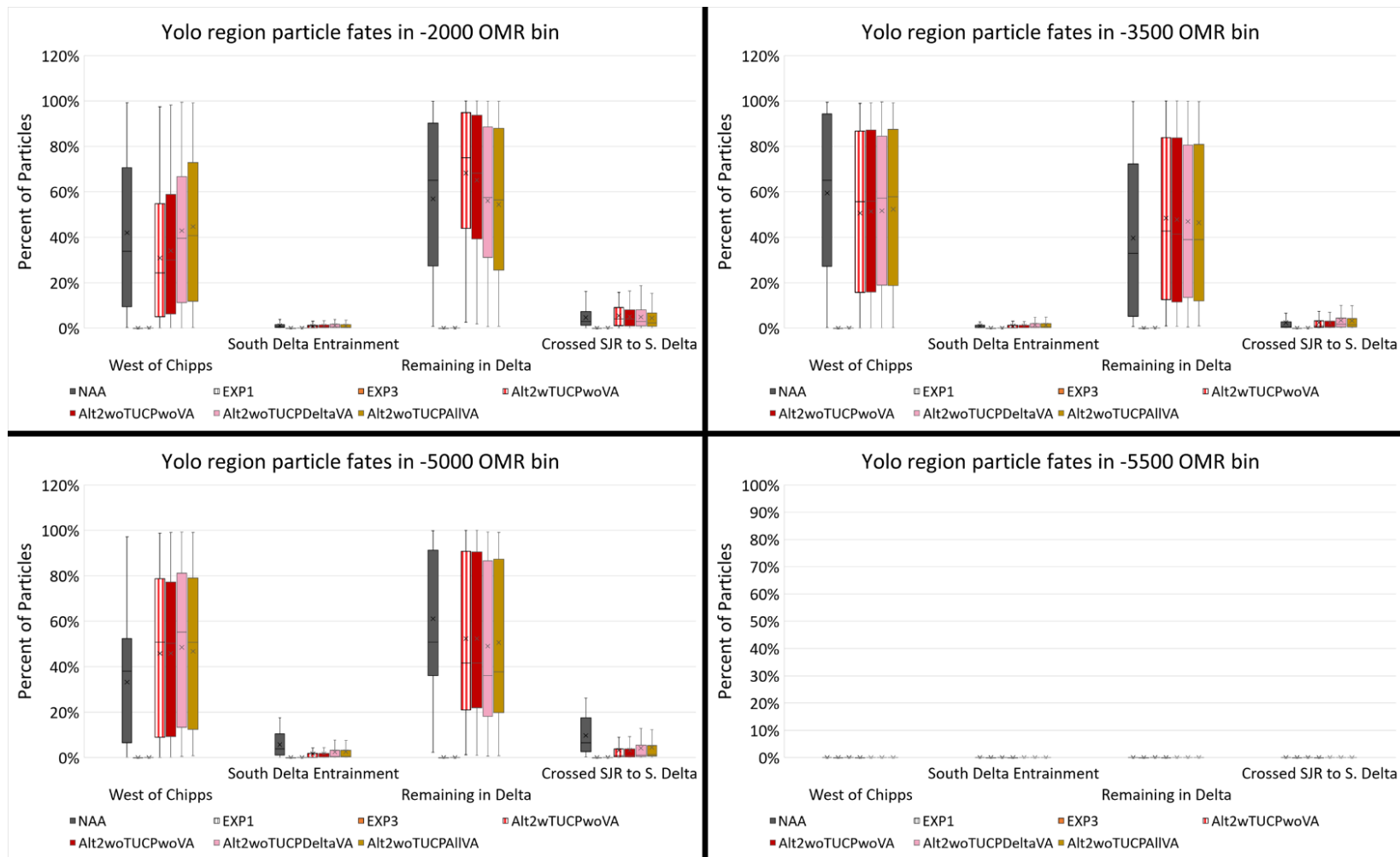


Figure I.8-19. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Yolo region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

1.8.4.4.2 Surface Oriented, Inflow and OMR Bins [BA, Figure I.8-20 through Figure I.8-37]

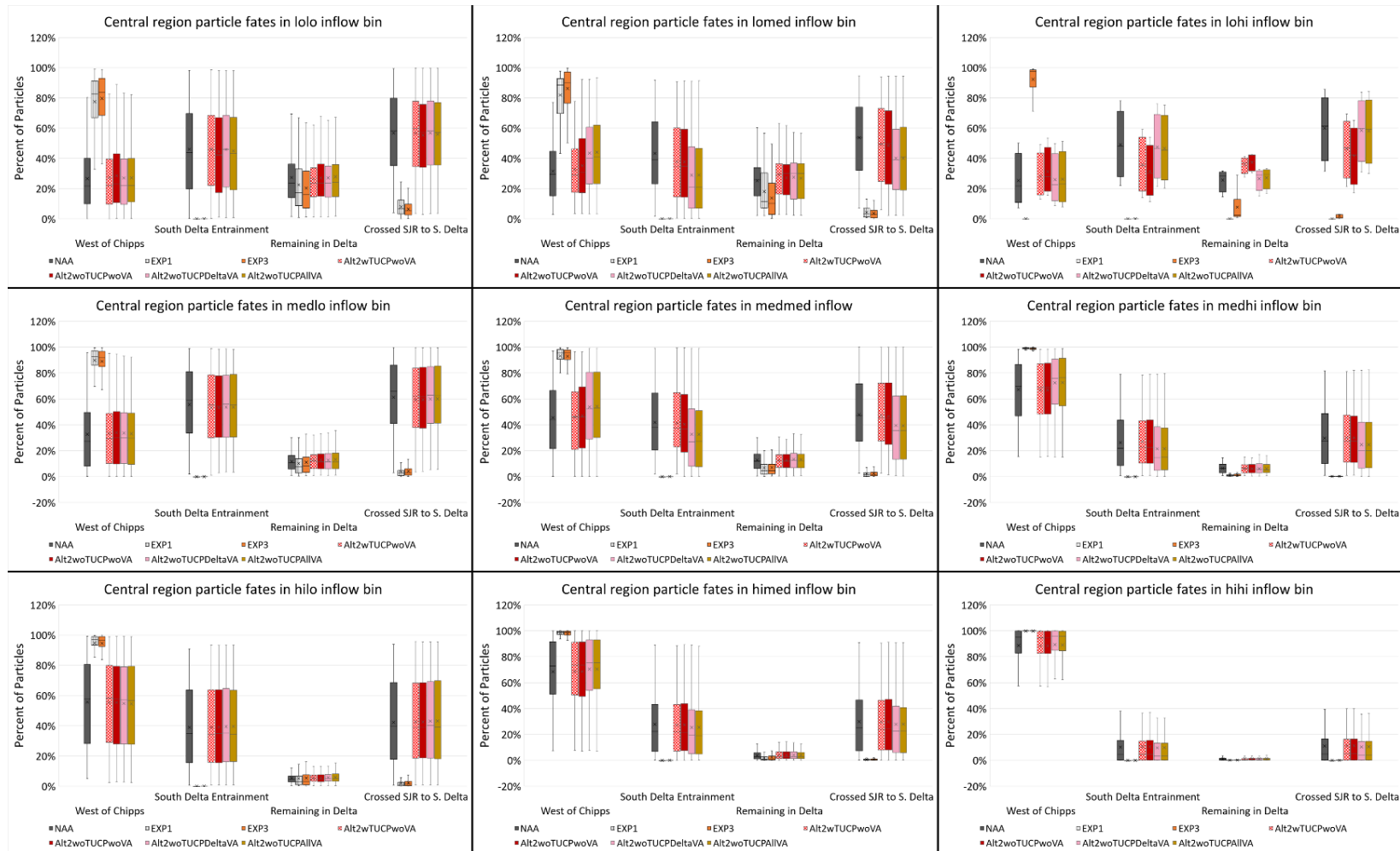


Figure I.8-20. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Central Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

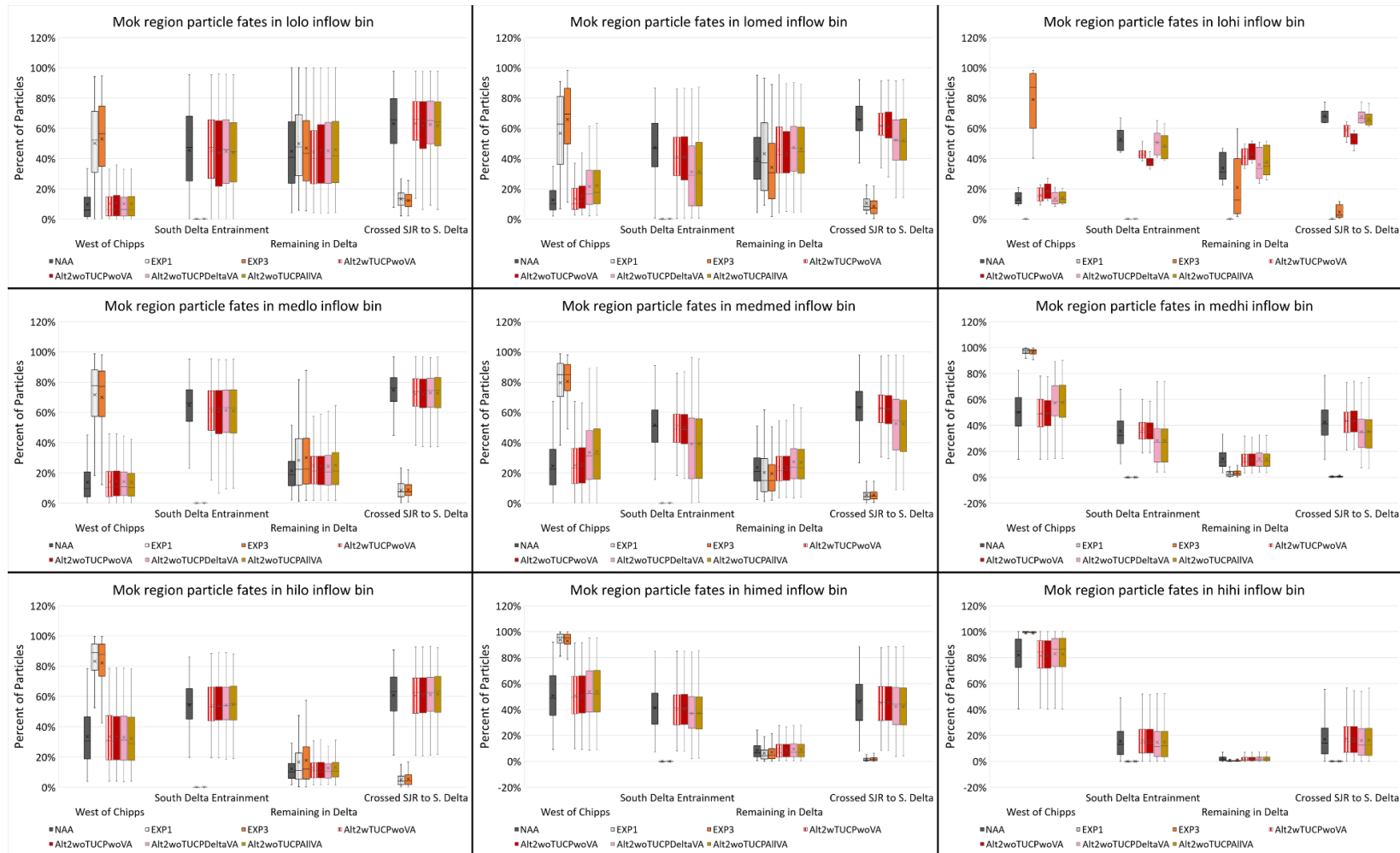


Figure I.8-21. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Mokelumne River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

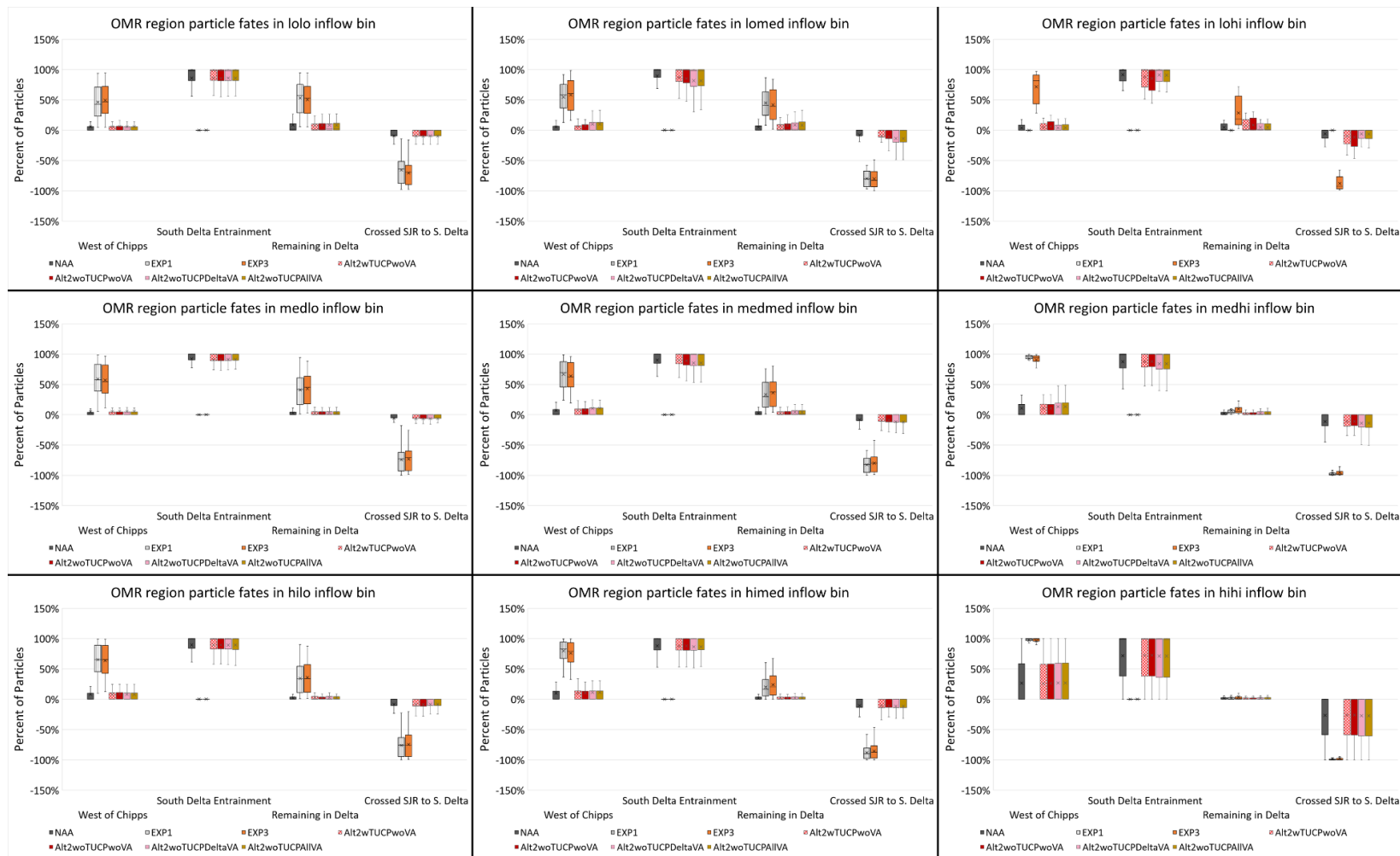


Figure I.8-22. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Old and Middle River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

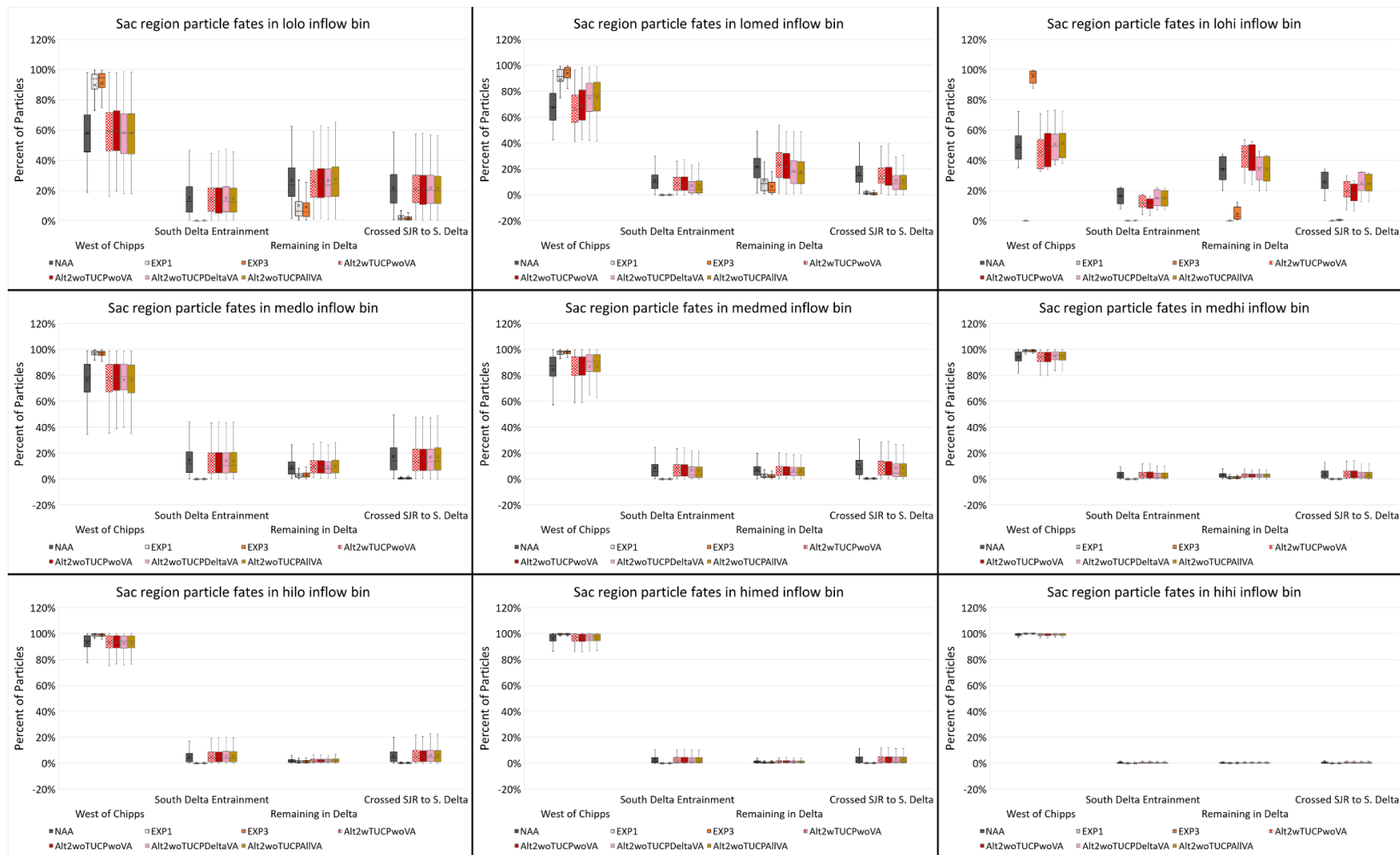


Figure I.8-23. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Sacramento River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

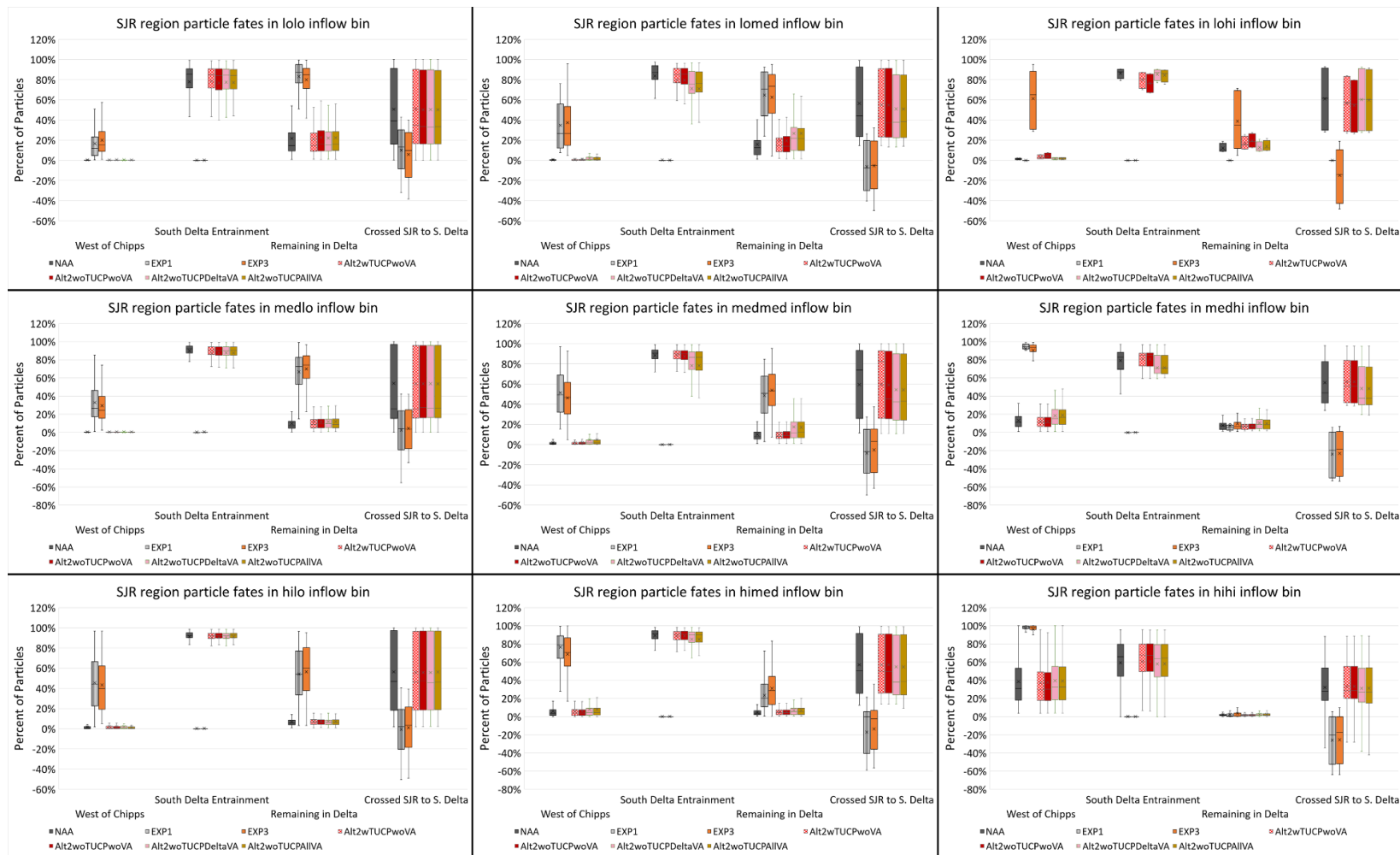


Figure I.8-24. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at San Joaquin River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

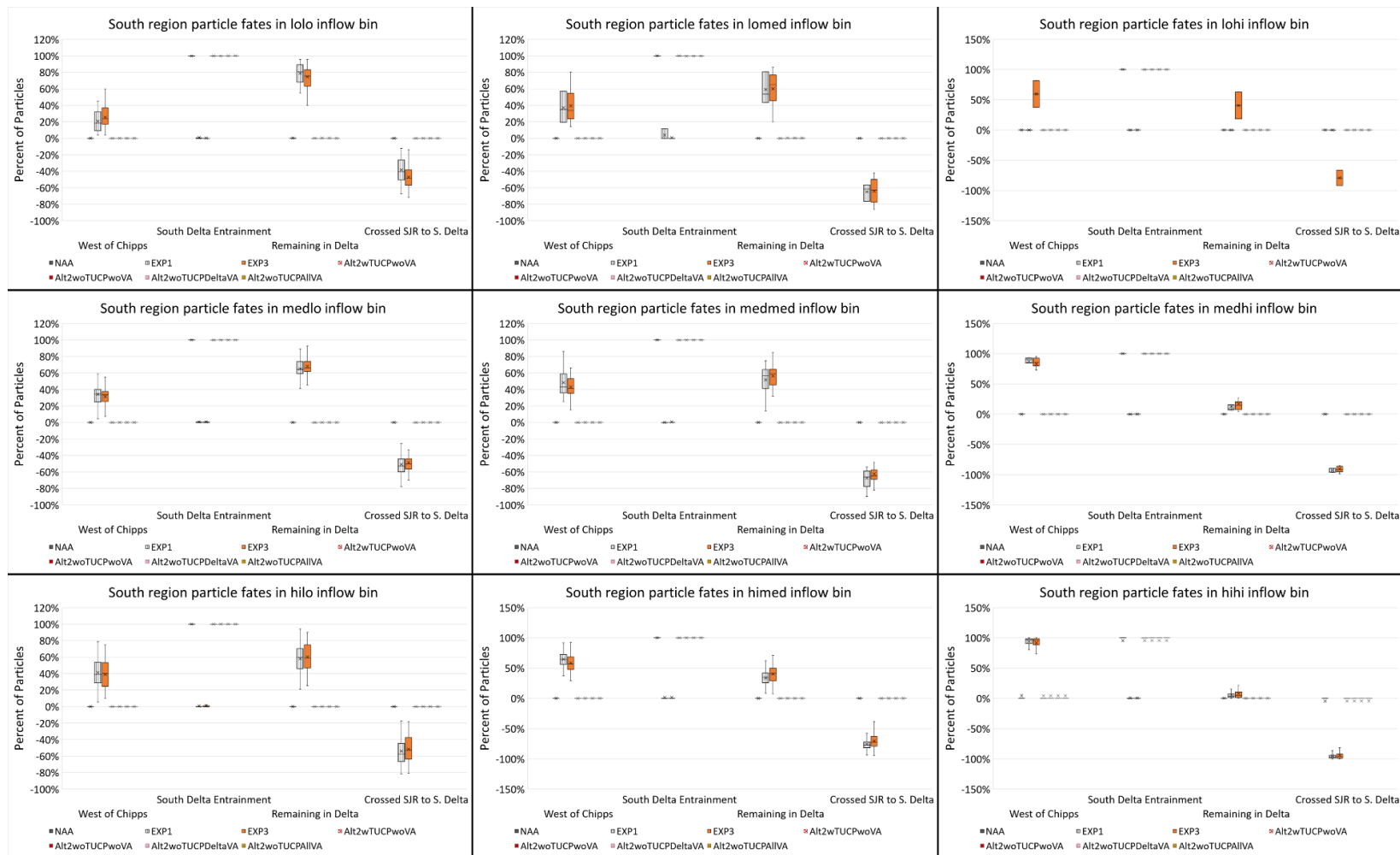


Figure I.8-25. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at South Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

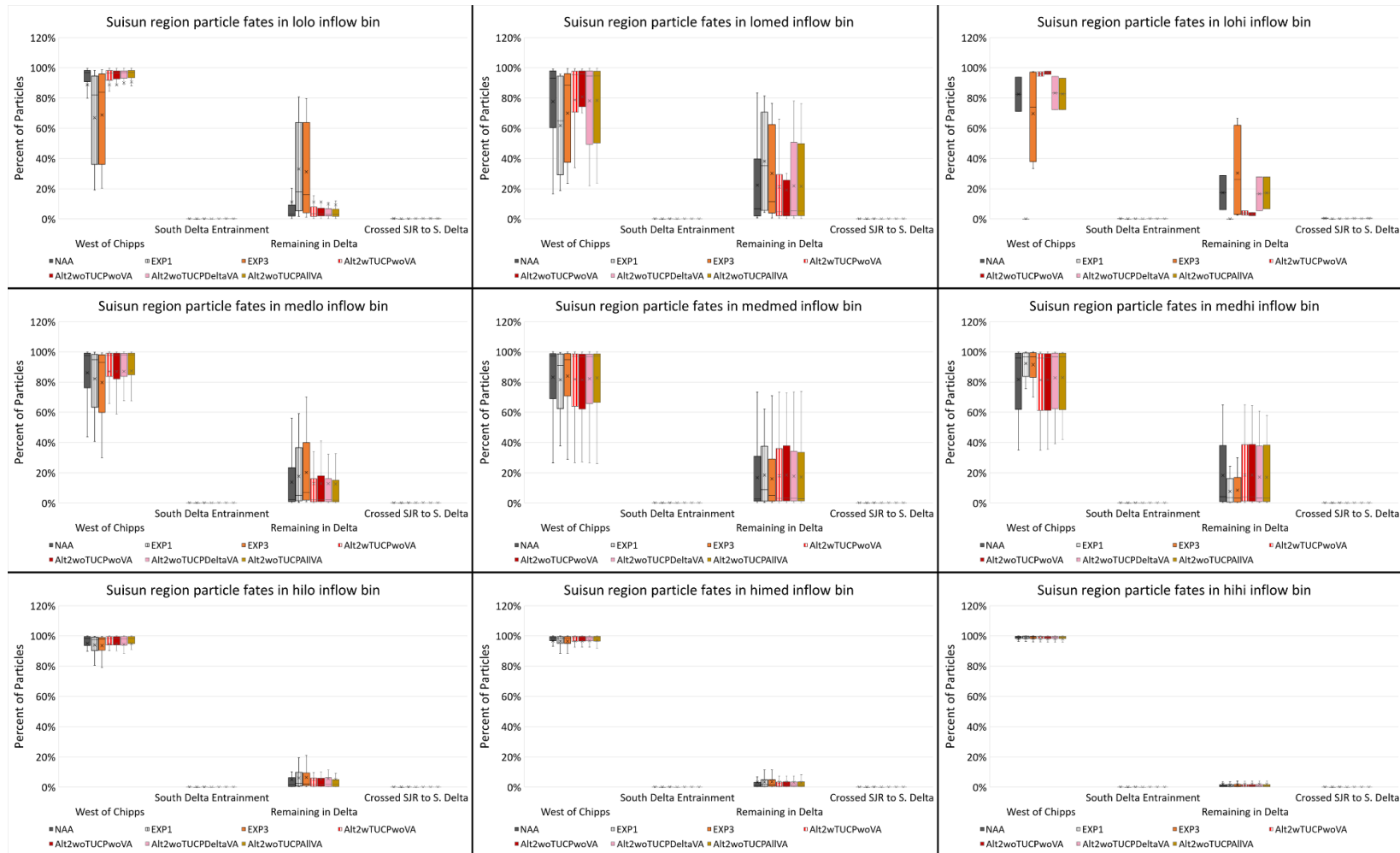


Figure I.8-26. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Suisun region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.



Figure I.8-27. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at West Delta region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

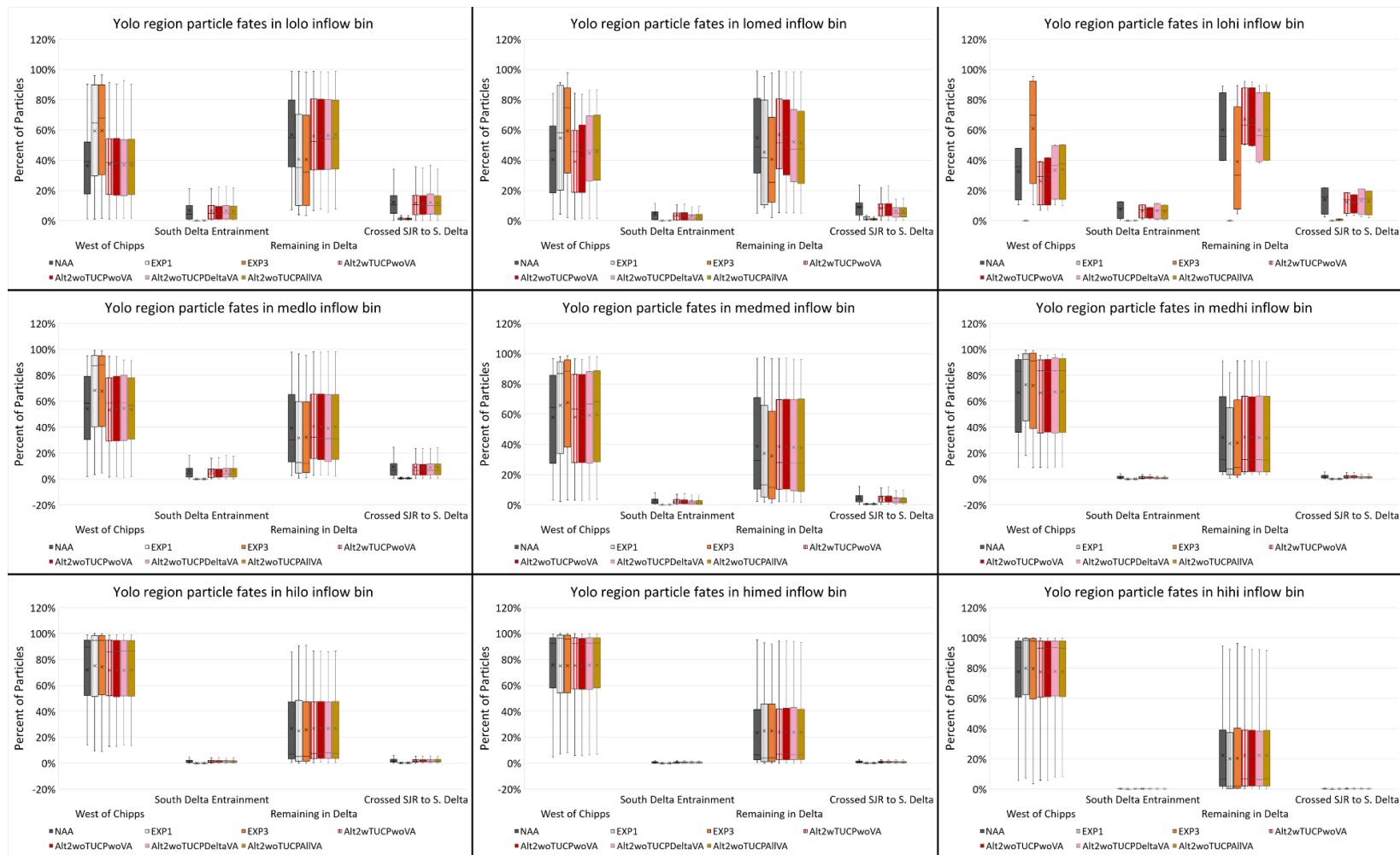


Figure I.8-28. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Yolo region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

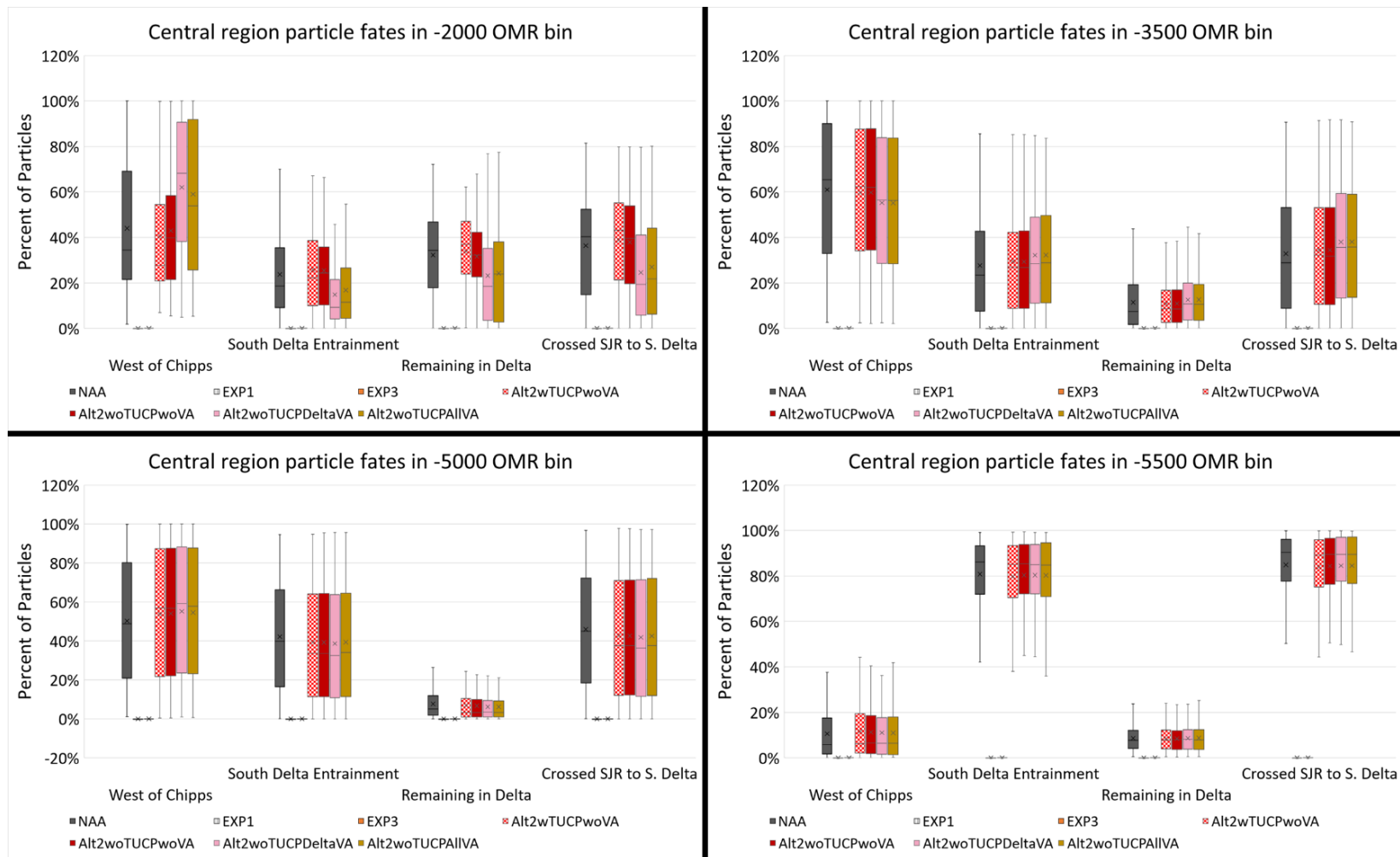


Figure I.8-29. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Central Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

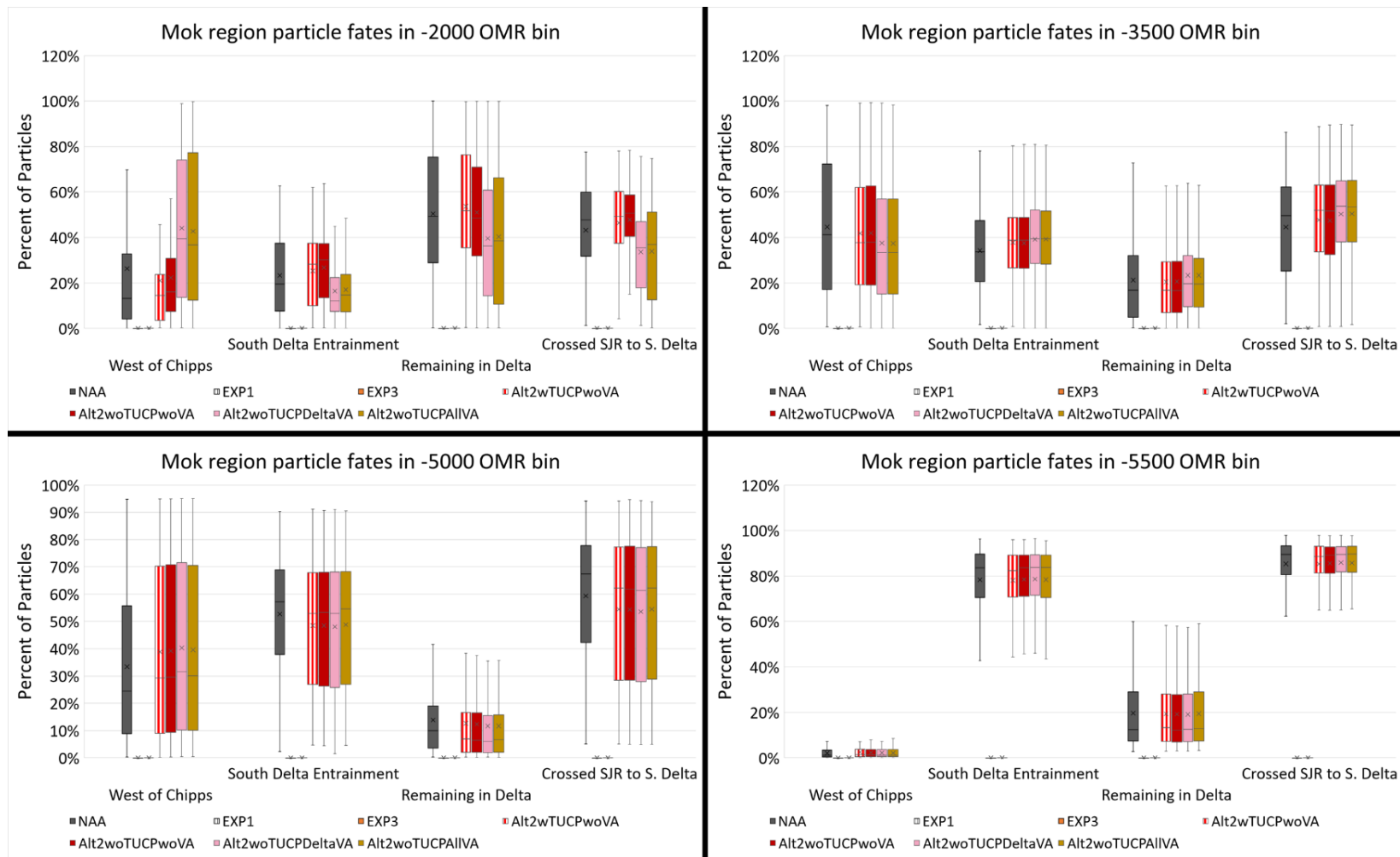


Figure I.8-30. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Mokelumne River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

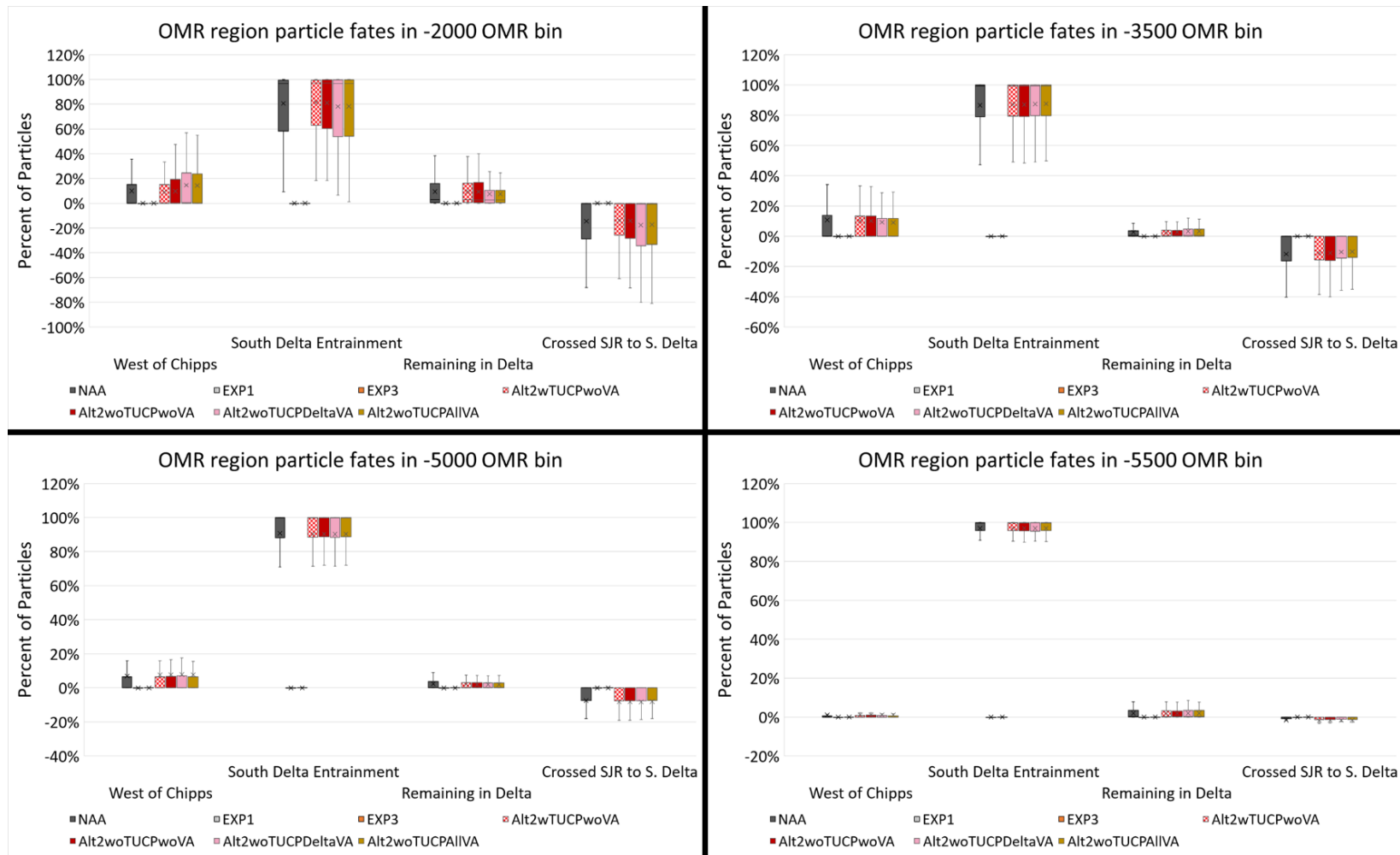


Figure I.8-31. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Old and Middle River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

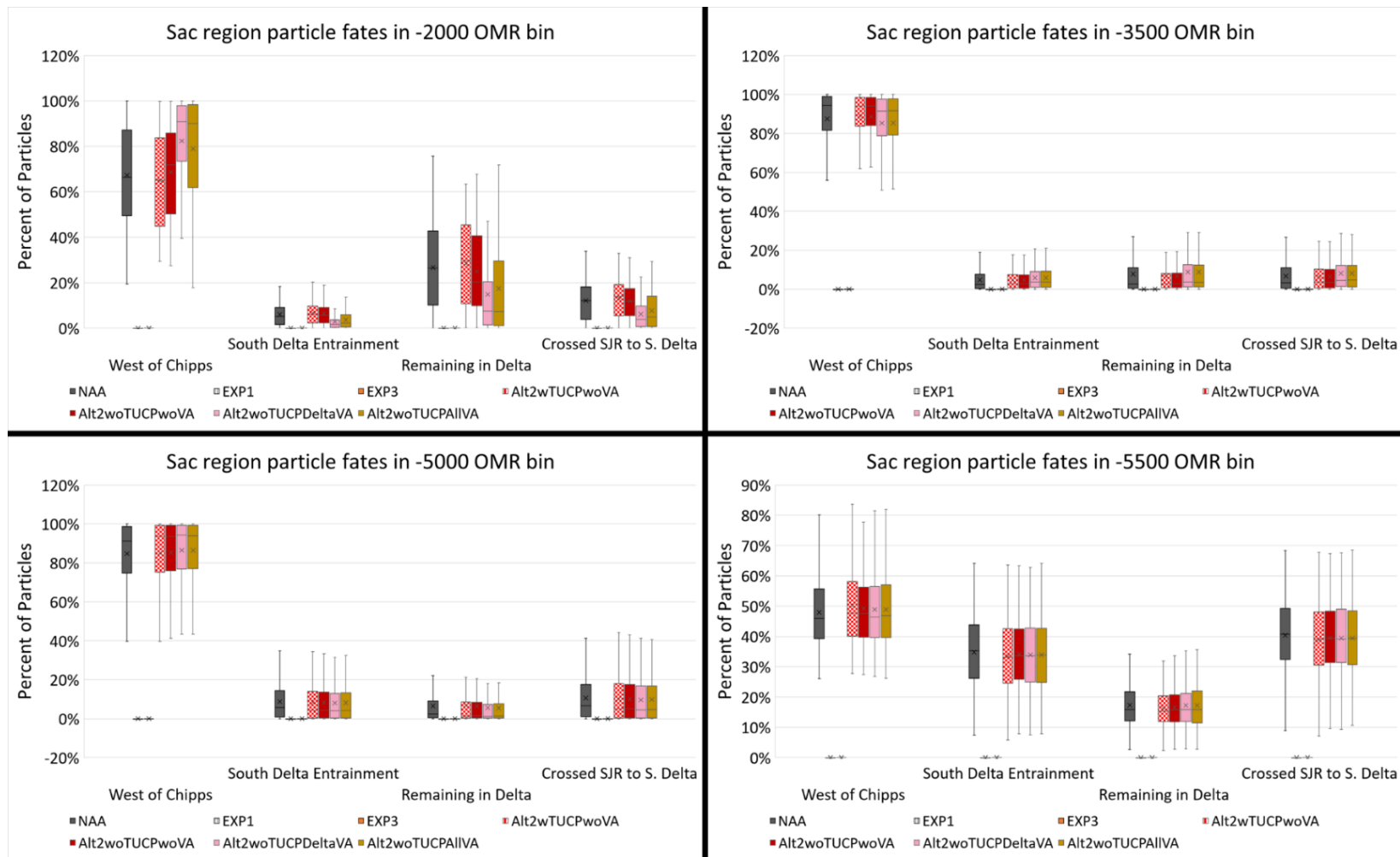


Figure I.8-32. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Sacramento River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

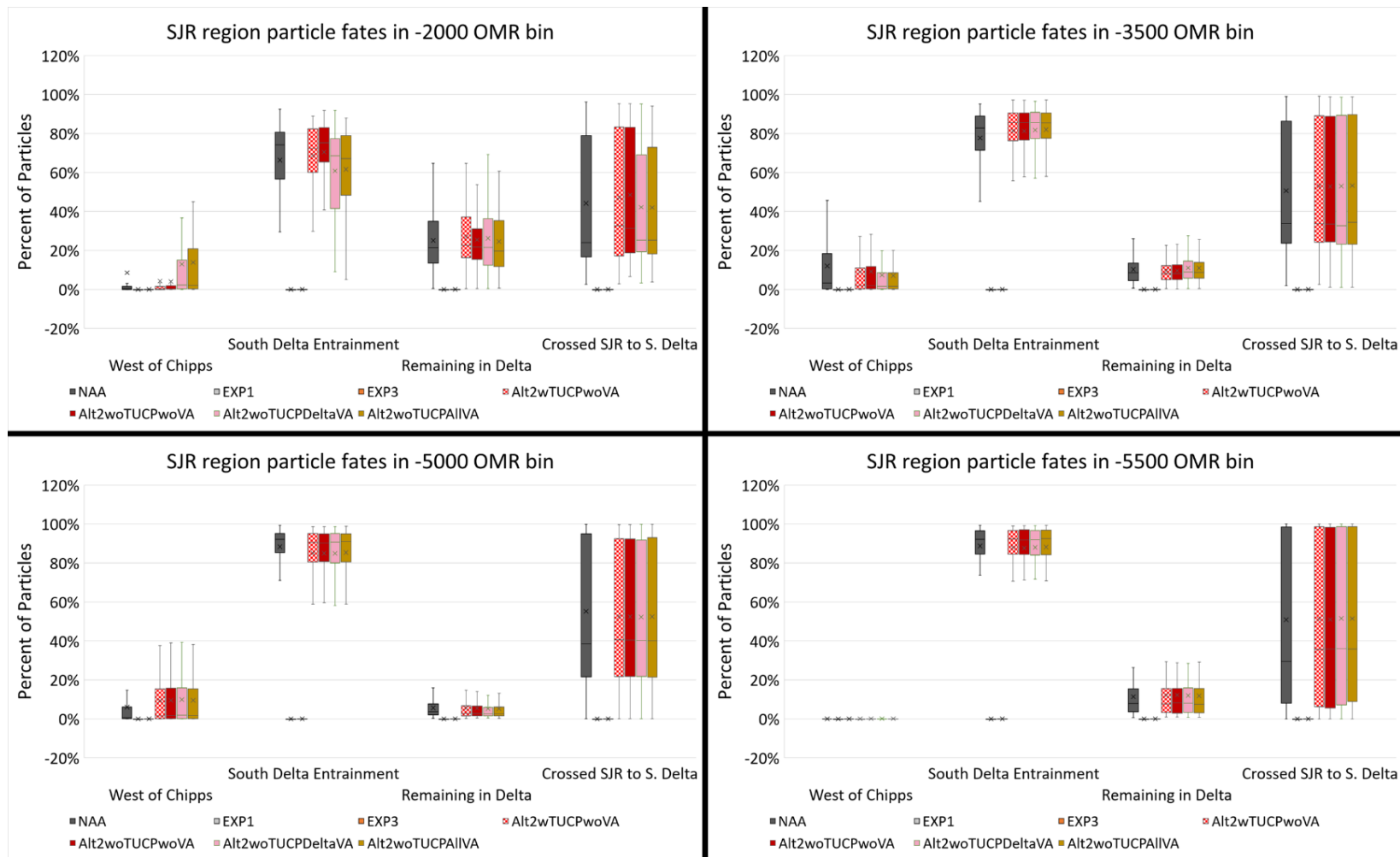


Figure I.8-33. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at San Joaquin River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

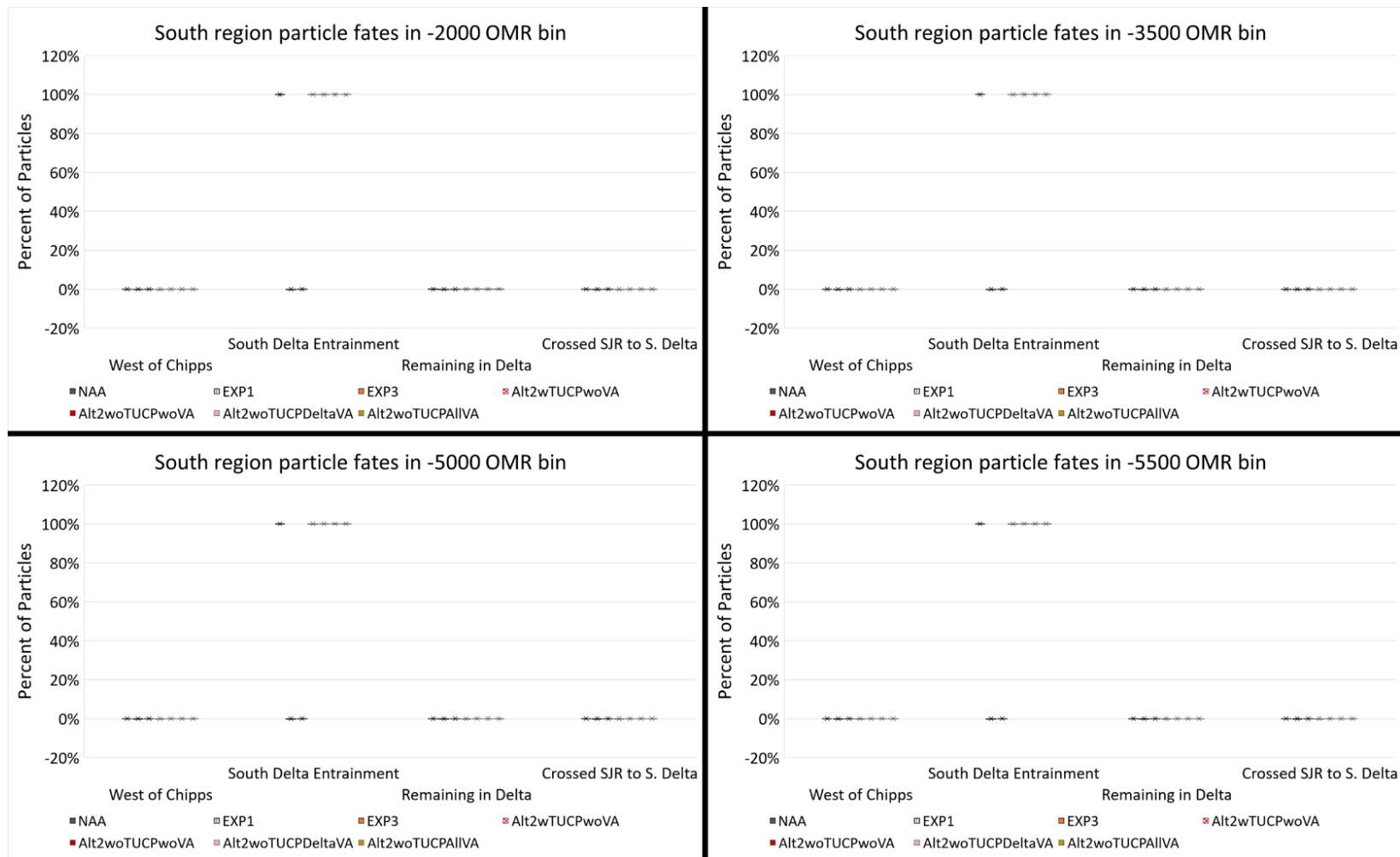


Figure I.8-34. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at South Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

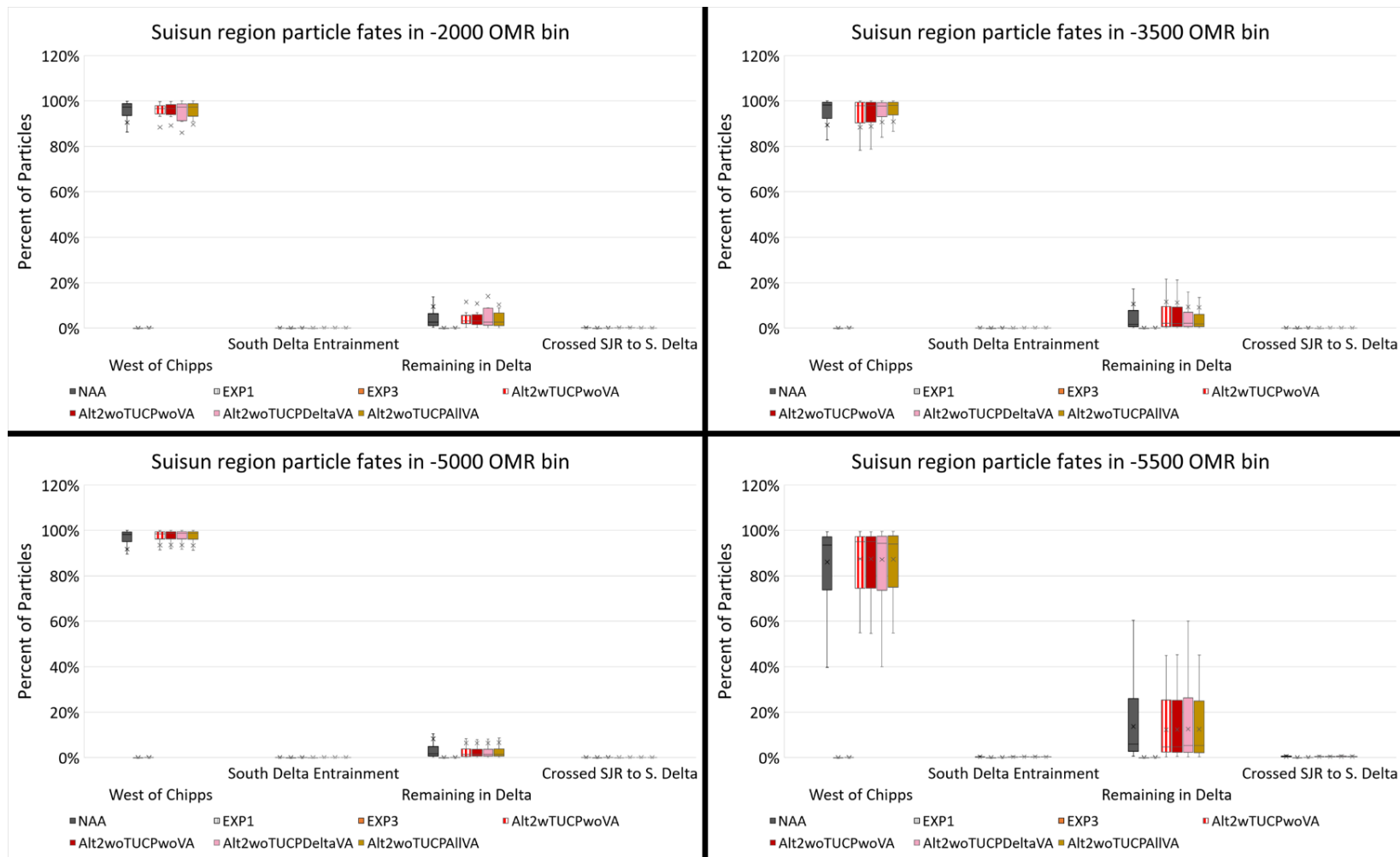


Figure I.8-35. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Suisun region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

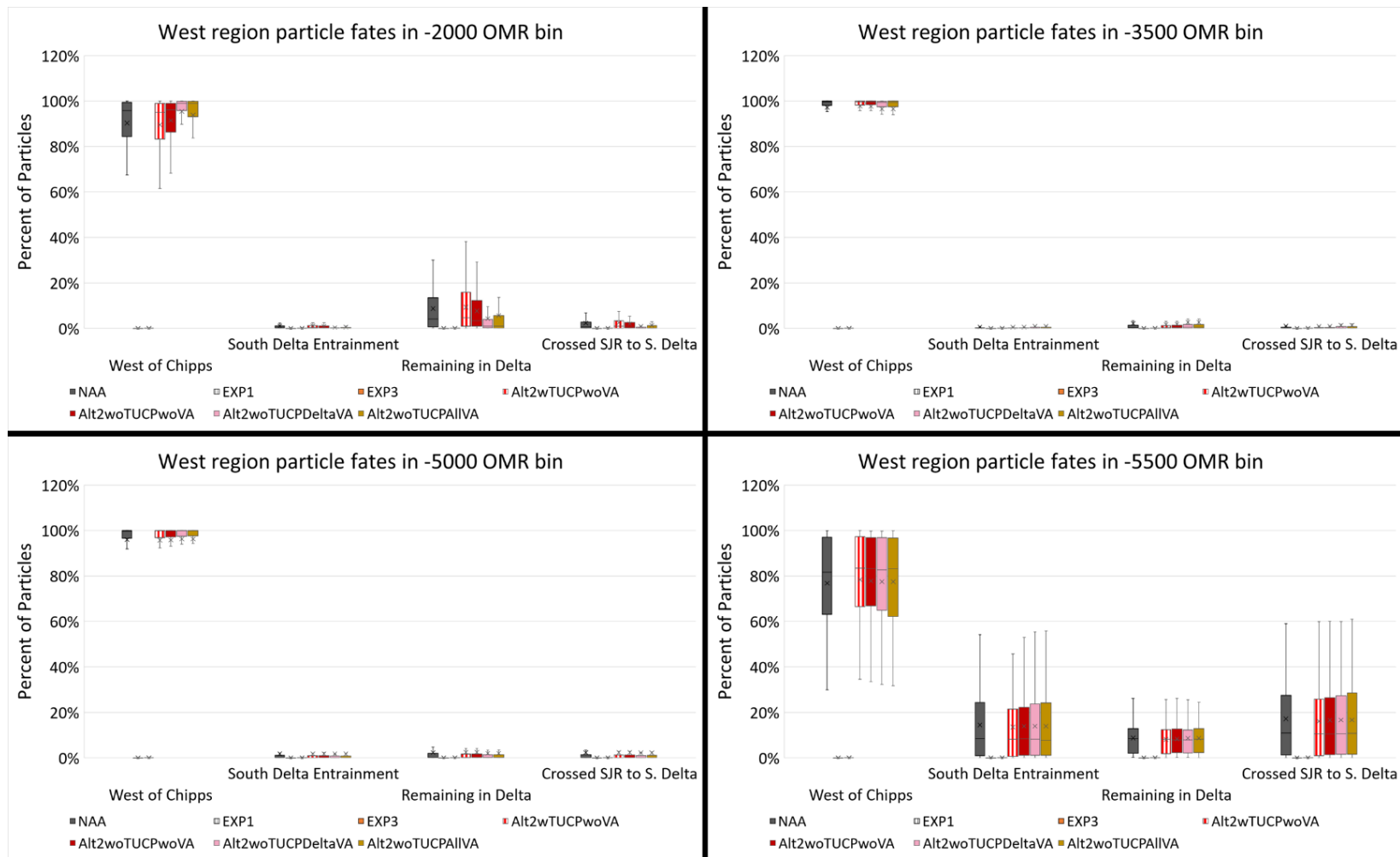


Figure I.8-36. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at West Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

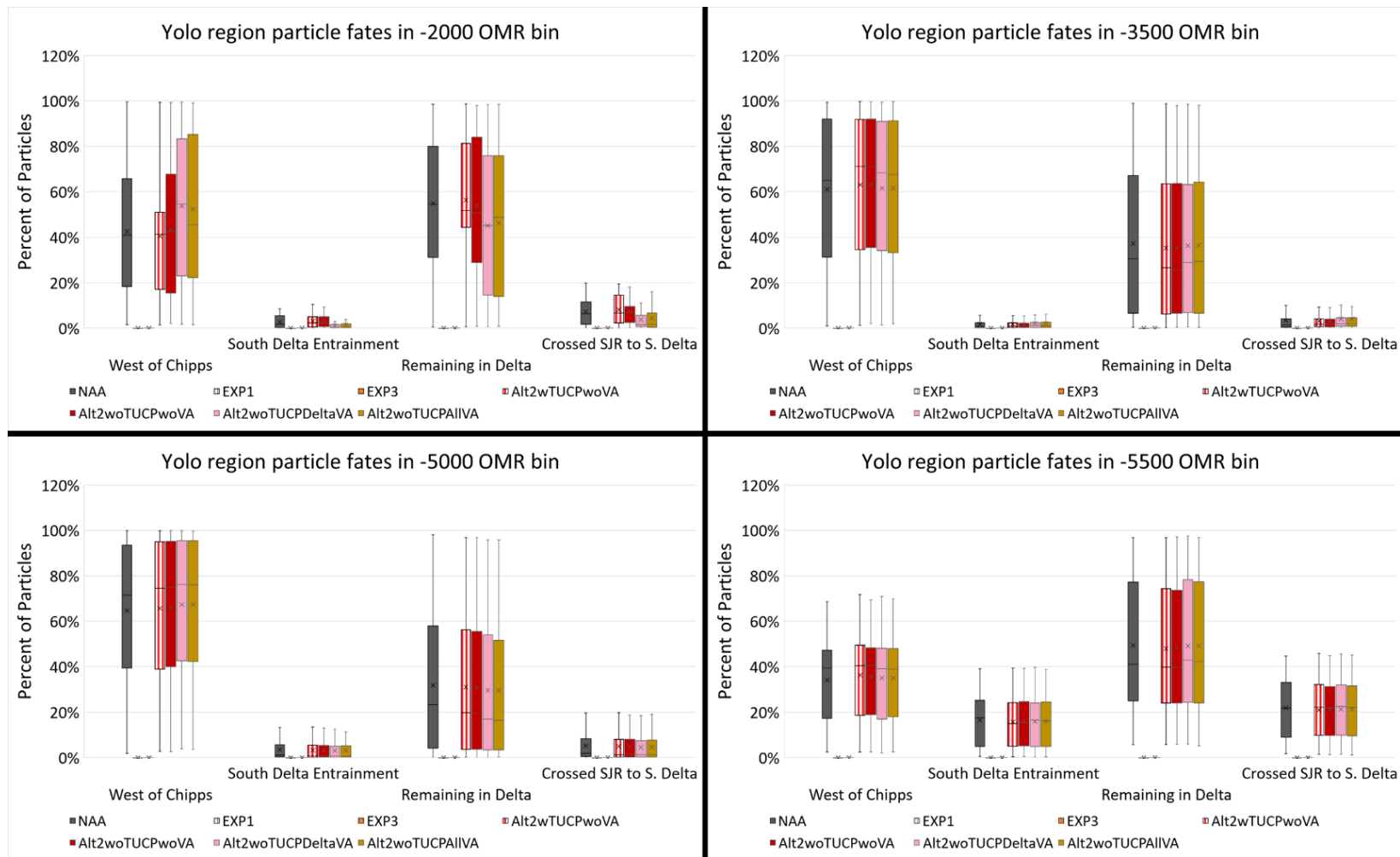


Figure I.8-37. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Yolo region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, EXP 1, EXP 3, and four phases of Alternative 2.

1.8.4.4.3 Neutrally Buoyant, Inflow and OMR Bins [EIS, Figure I.8-38 through Figure I.8-55]

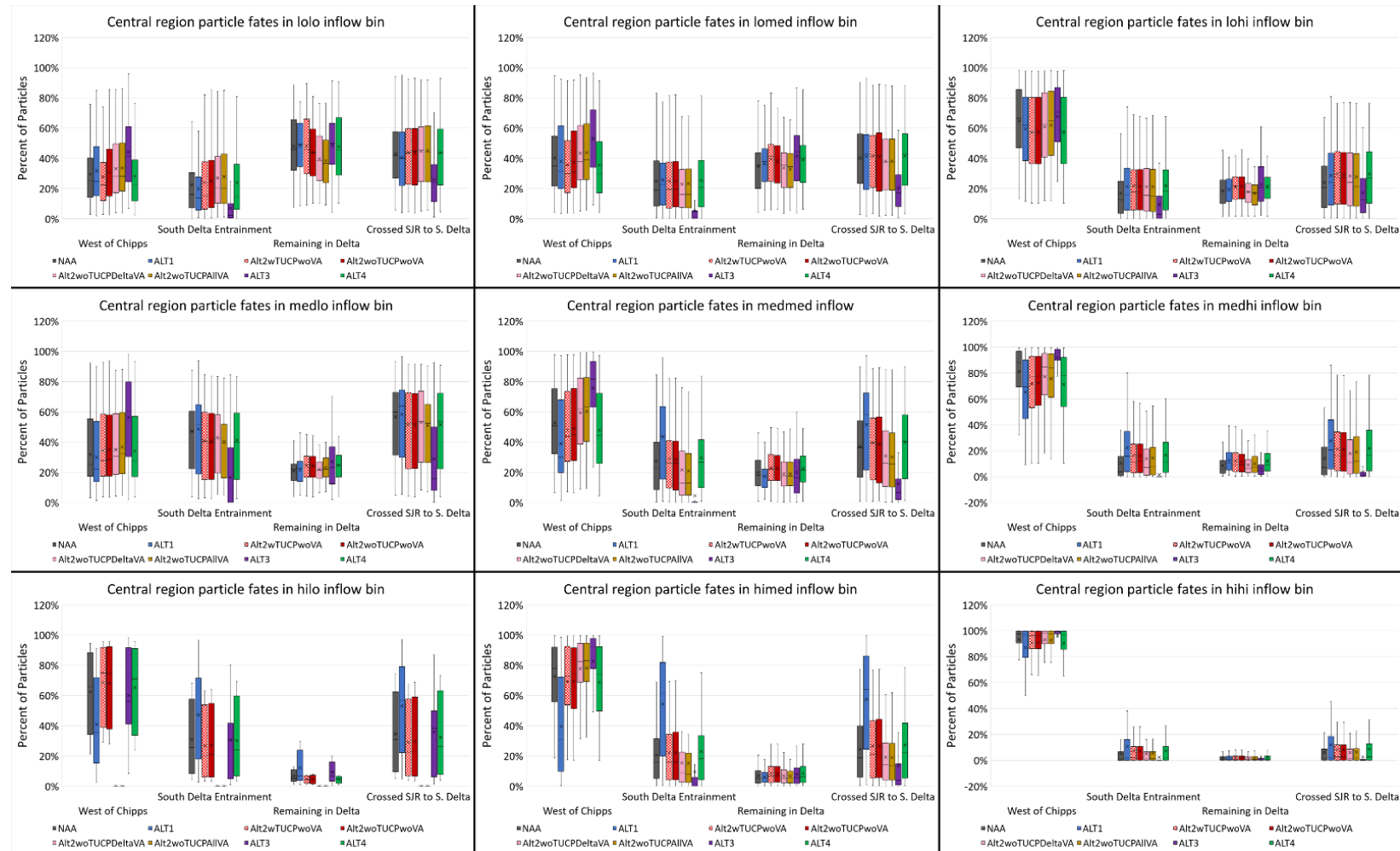


Figure I.8-38. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Central Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

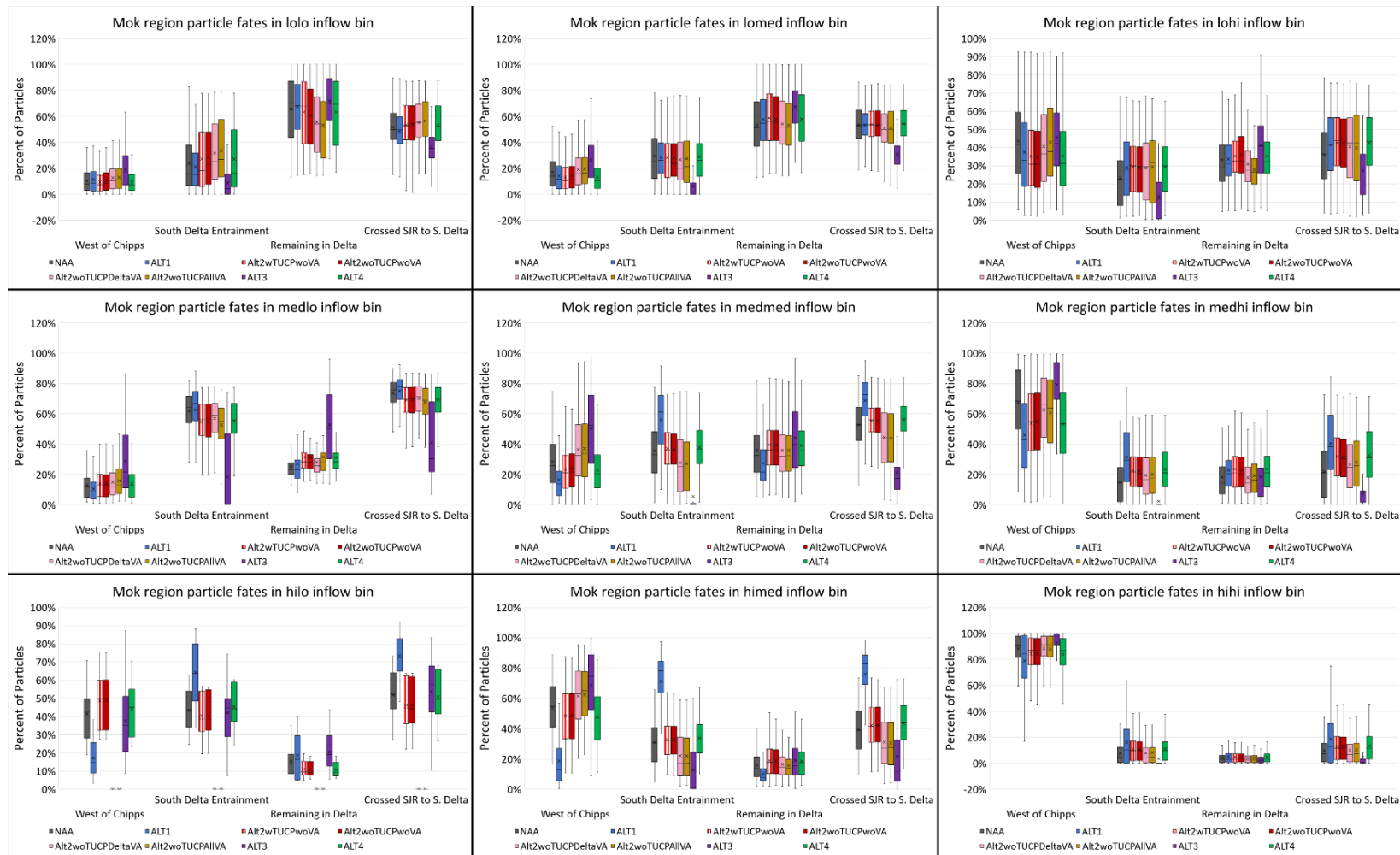


Figure I.8-39. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Mokelumne River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

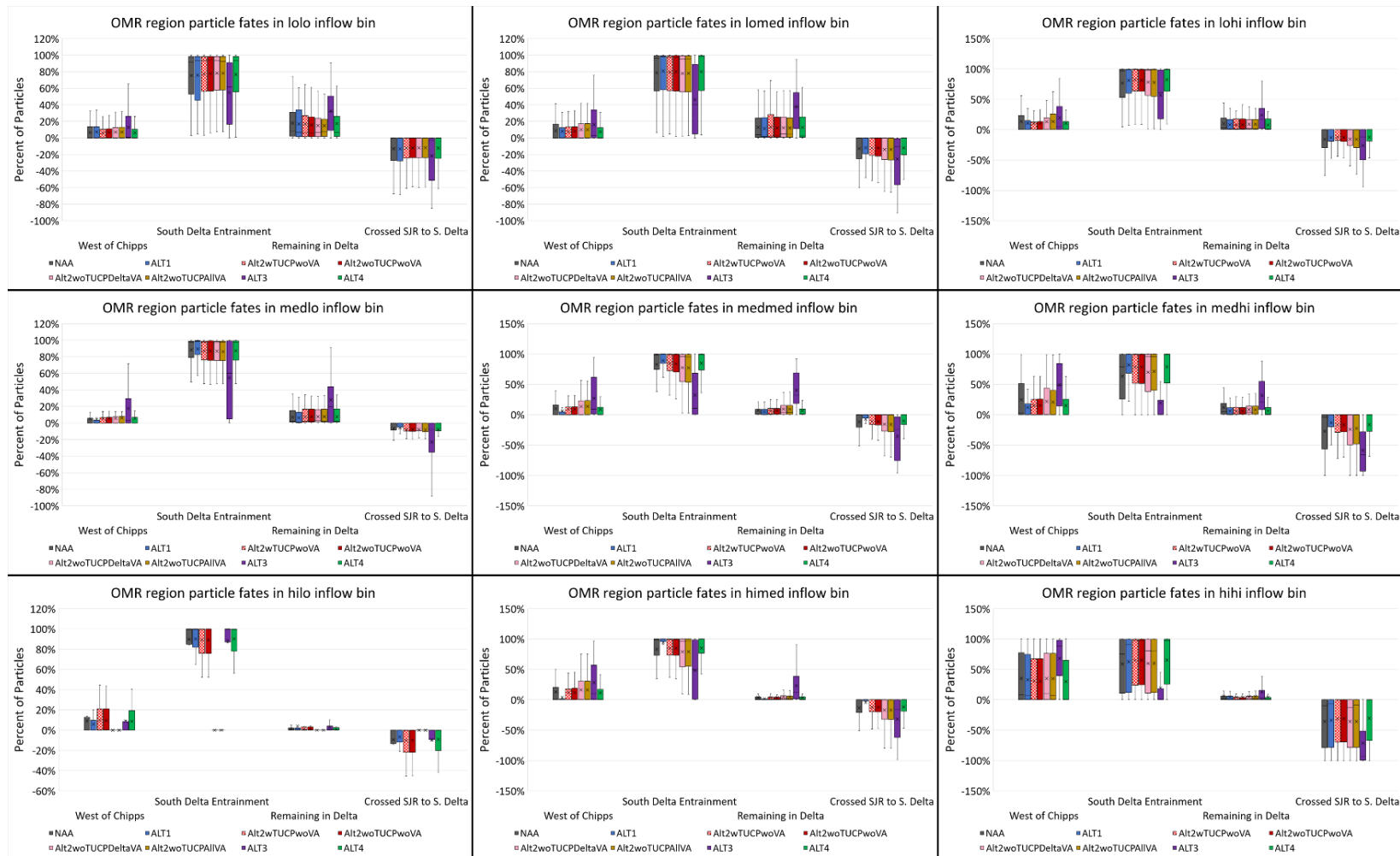


Figure I.8-40. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Old and Middle River region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

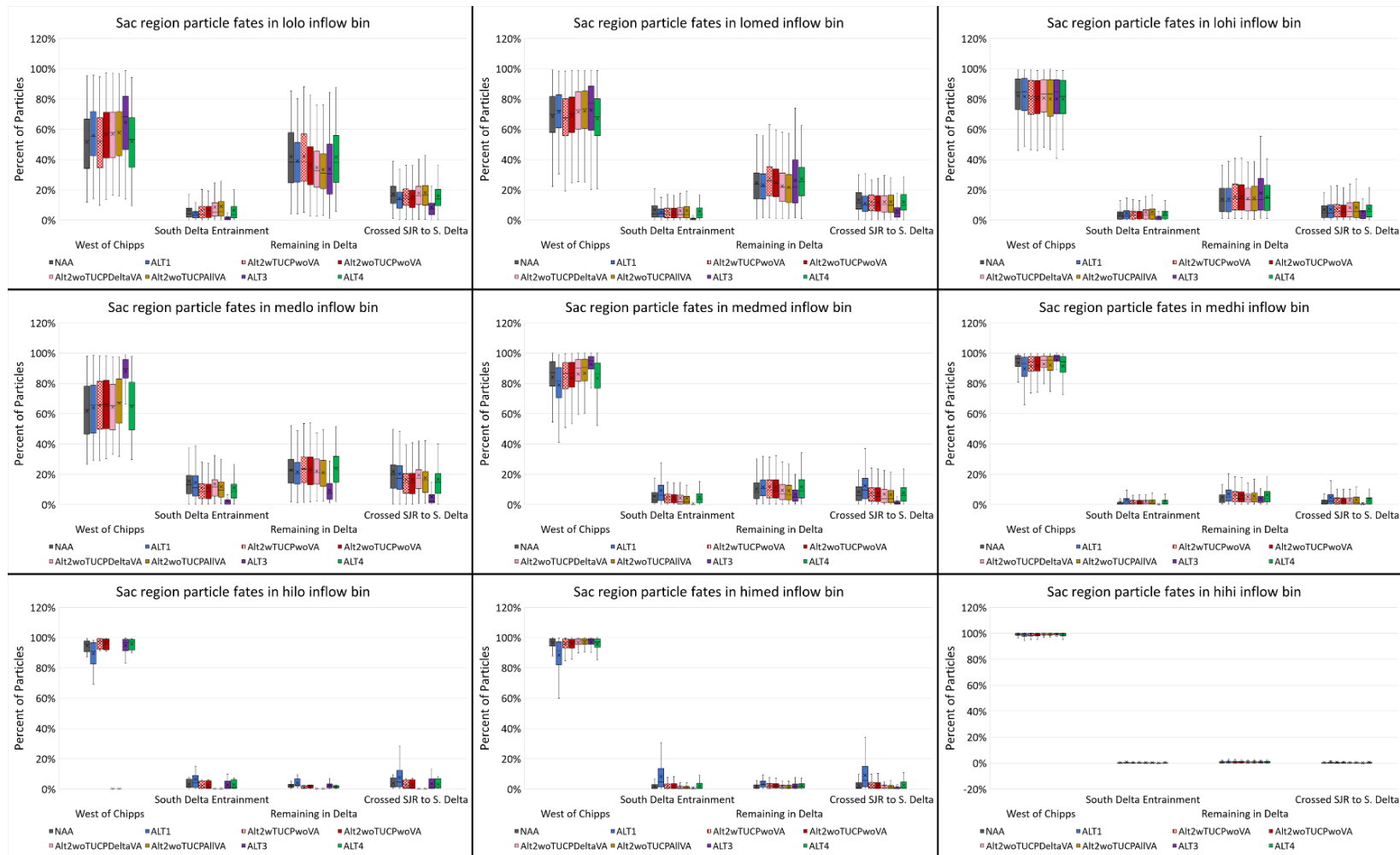


Figure I.8-41. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Sacramento River region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

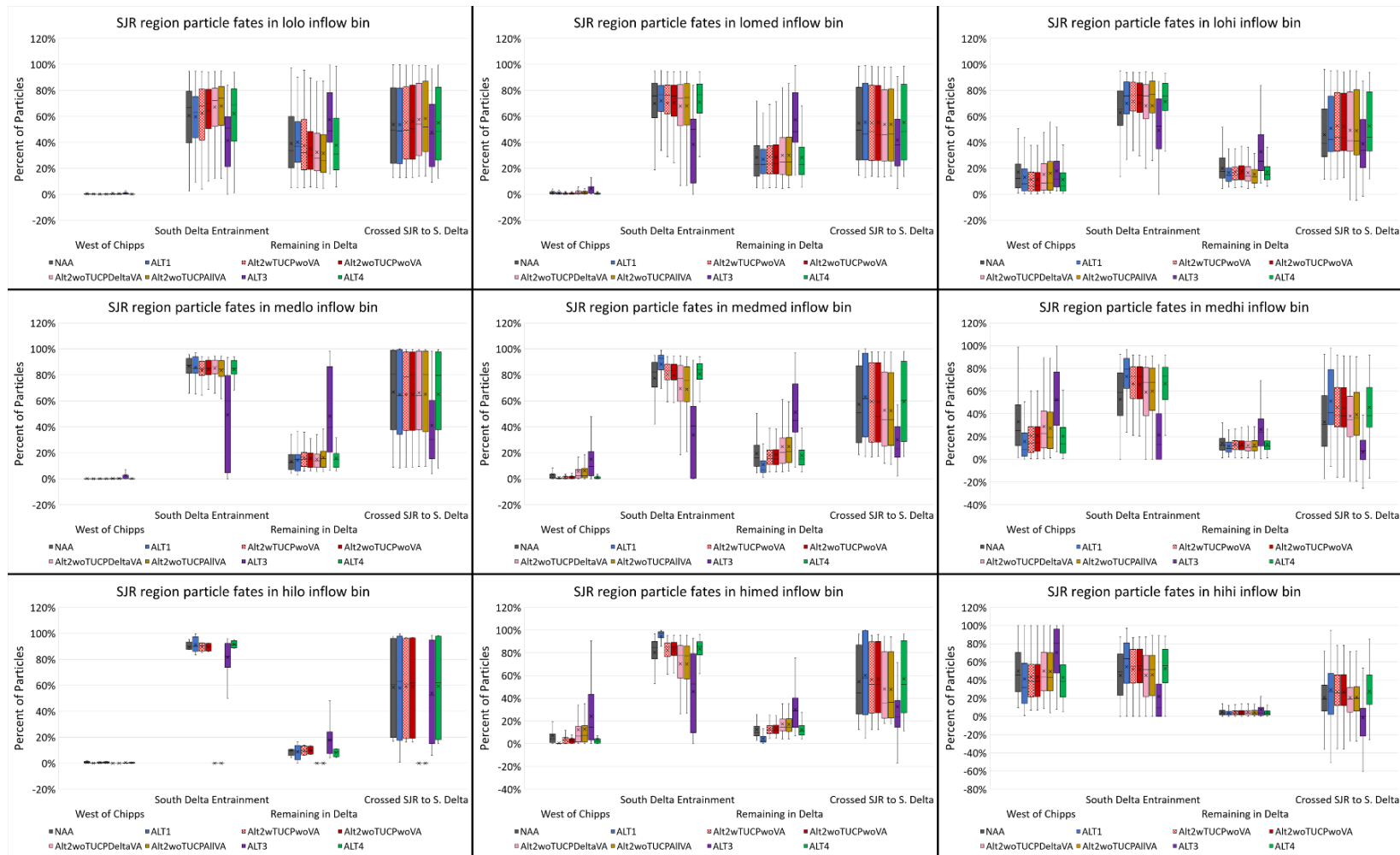


Figure I.8-42. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at San Joaquin River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

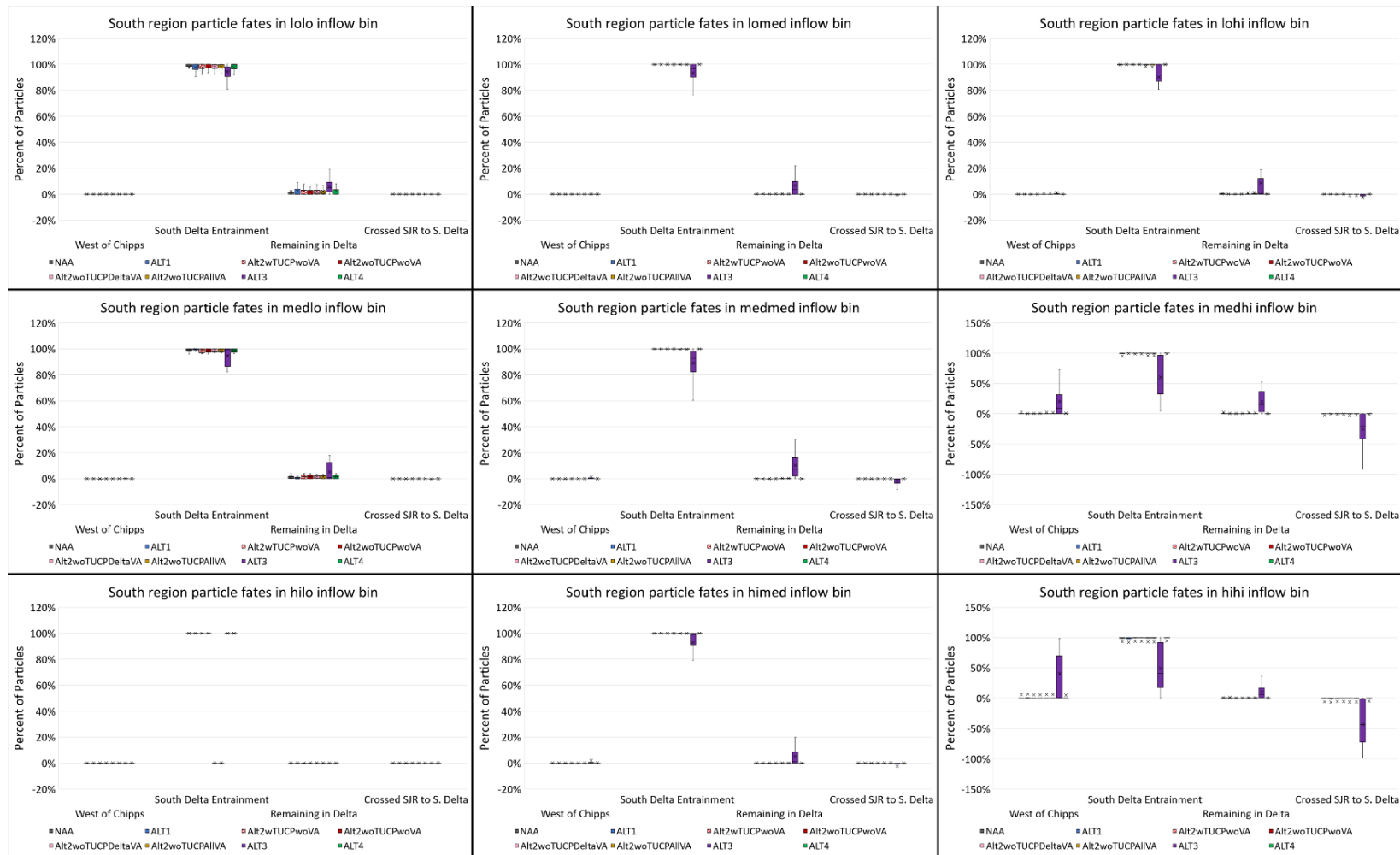


Figure I.8-43. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at South Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

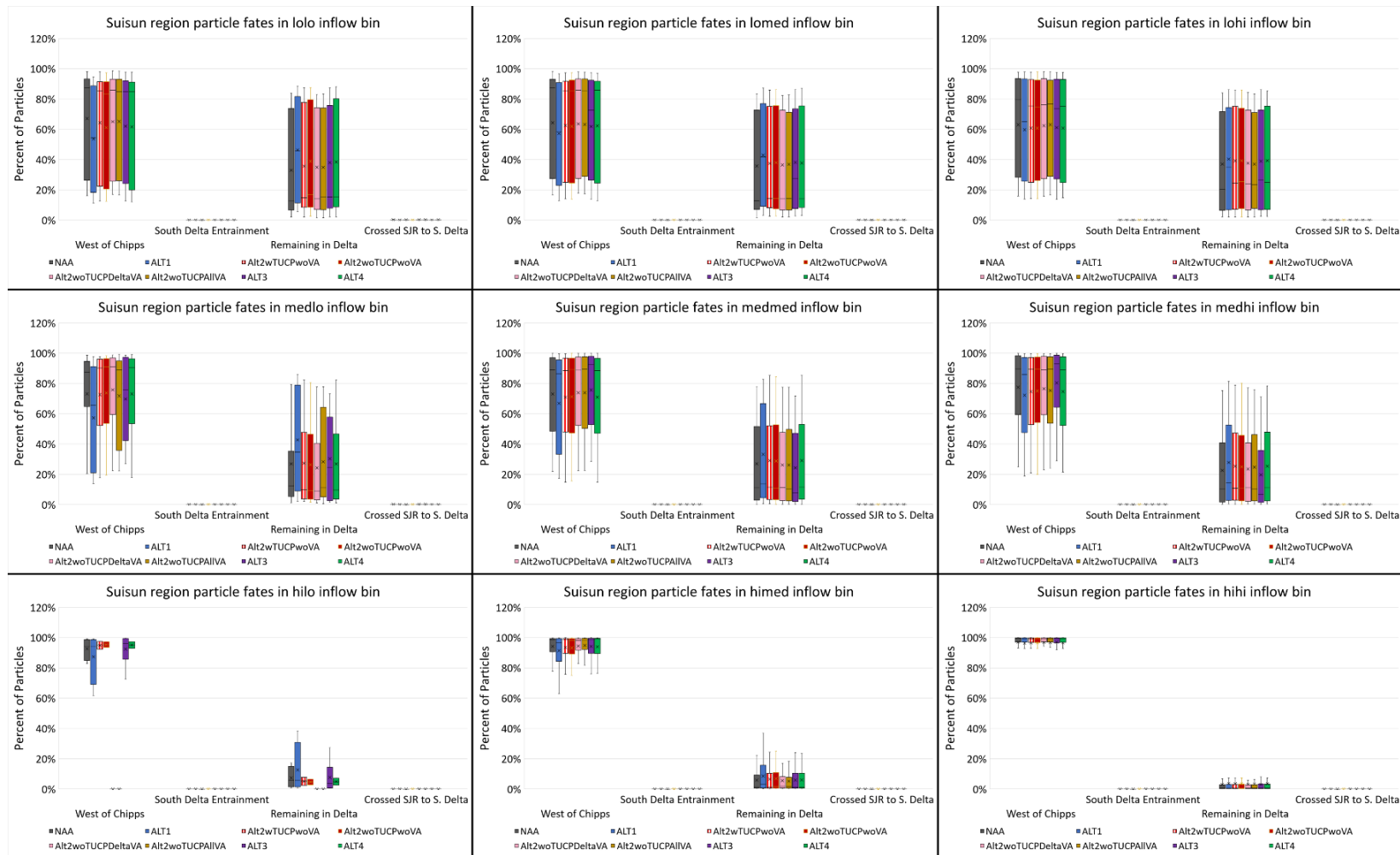


Figure I.8-44. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Suisun region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

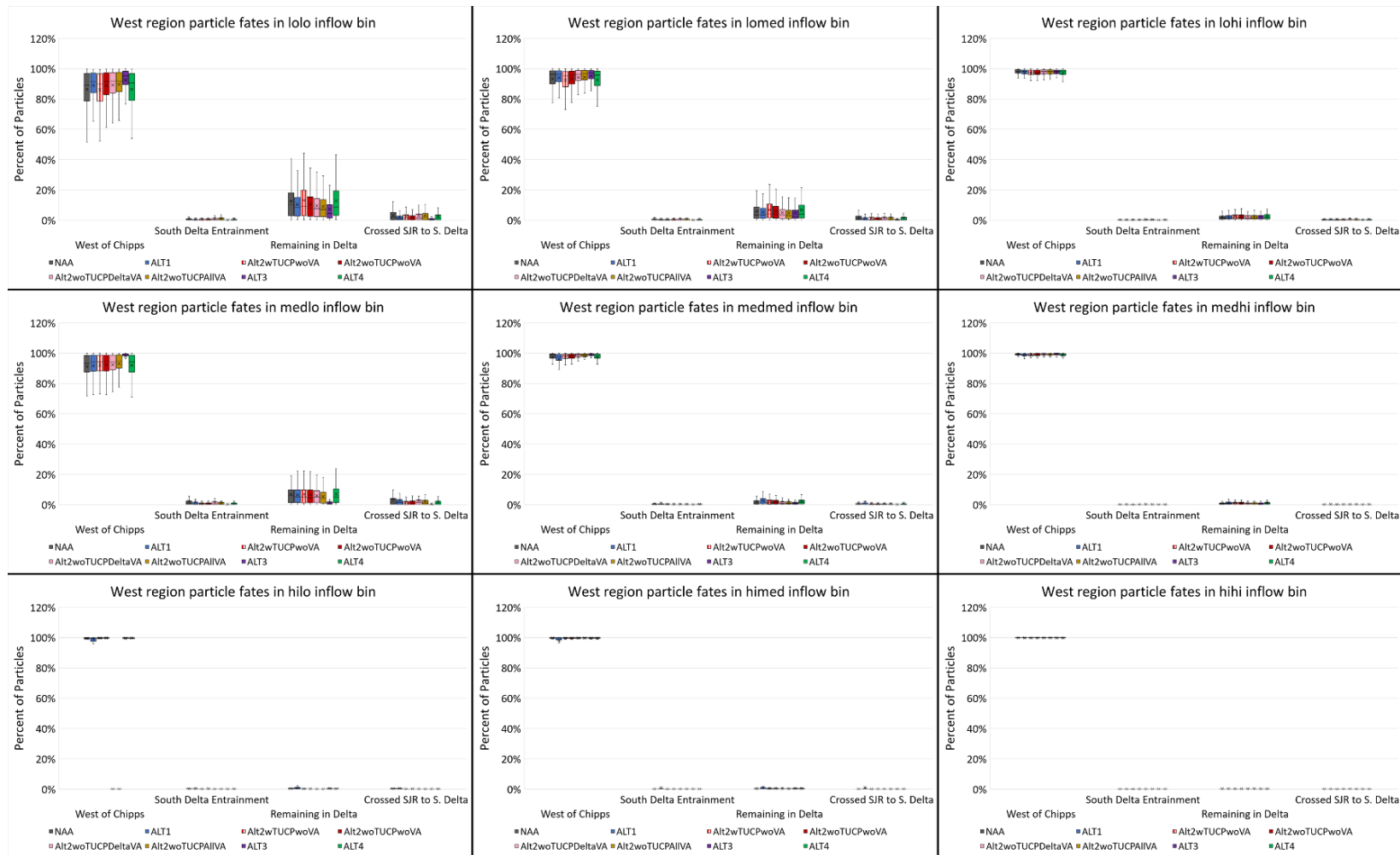


Figure I.8-45. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at West Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

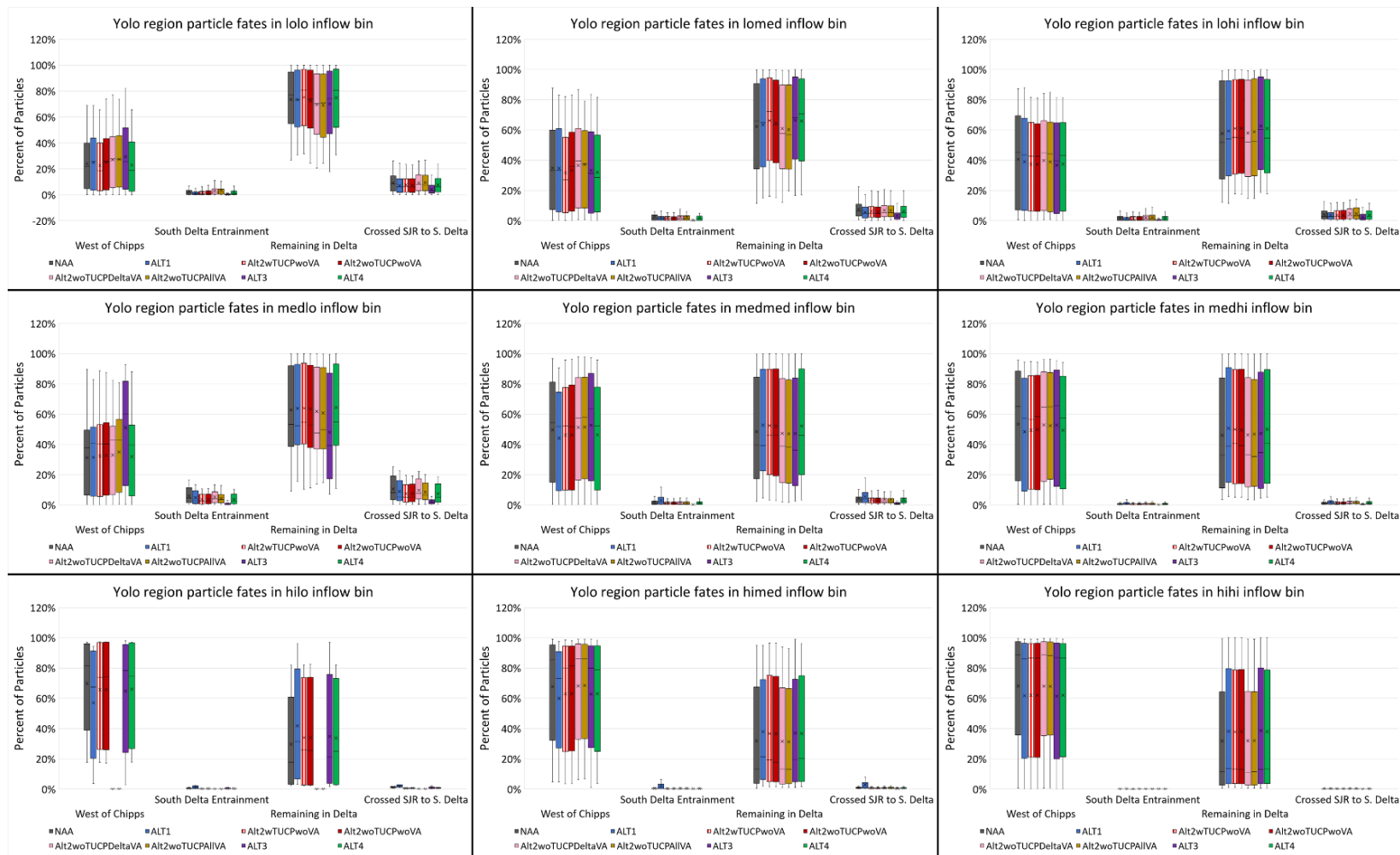


Figure I.8-46. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Yolo region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

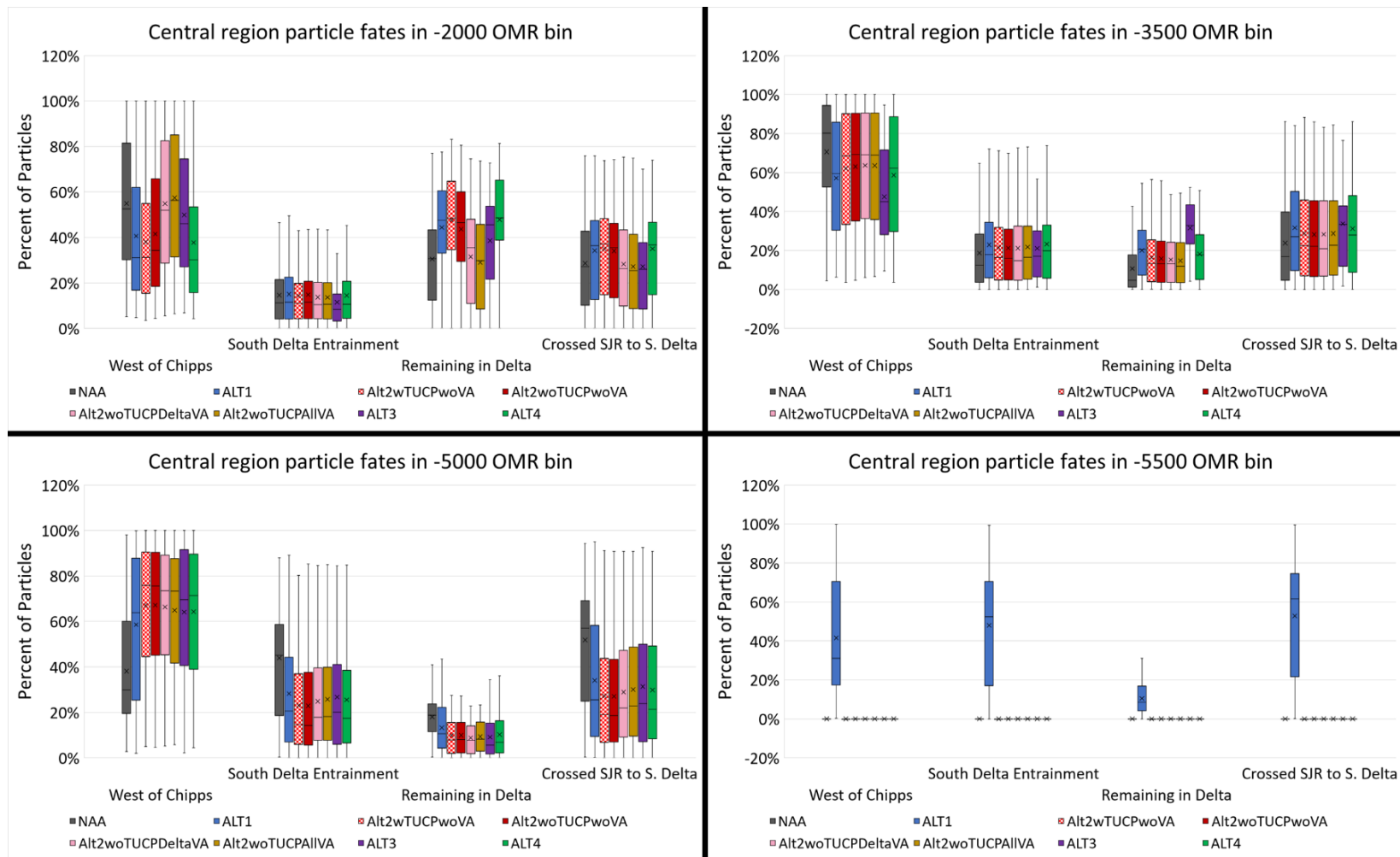


Figure I.8-47. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Central Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

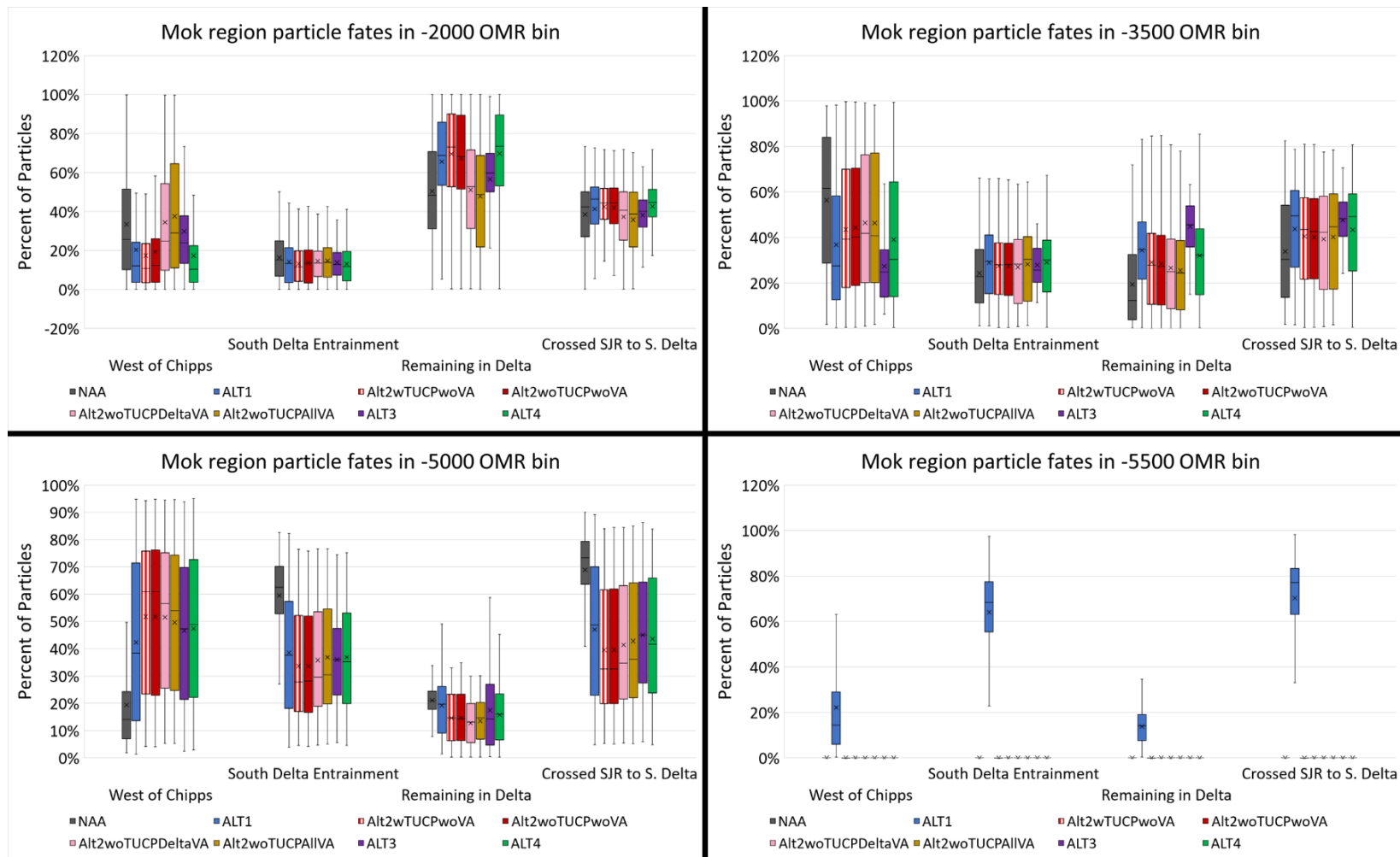


Figure I.8-48. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Mokelumne River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

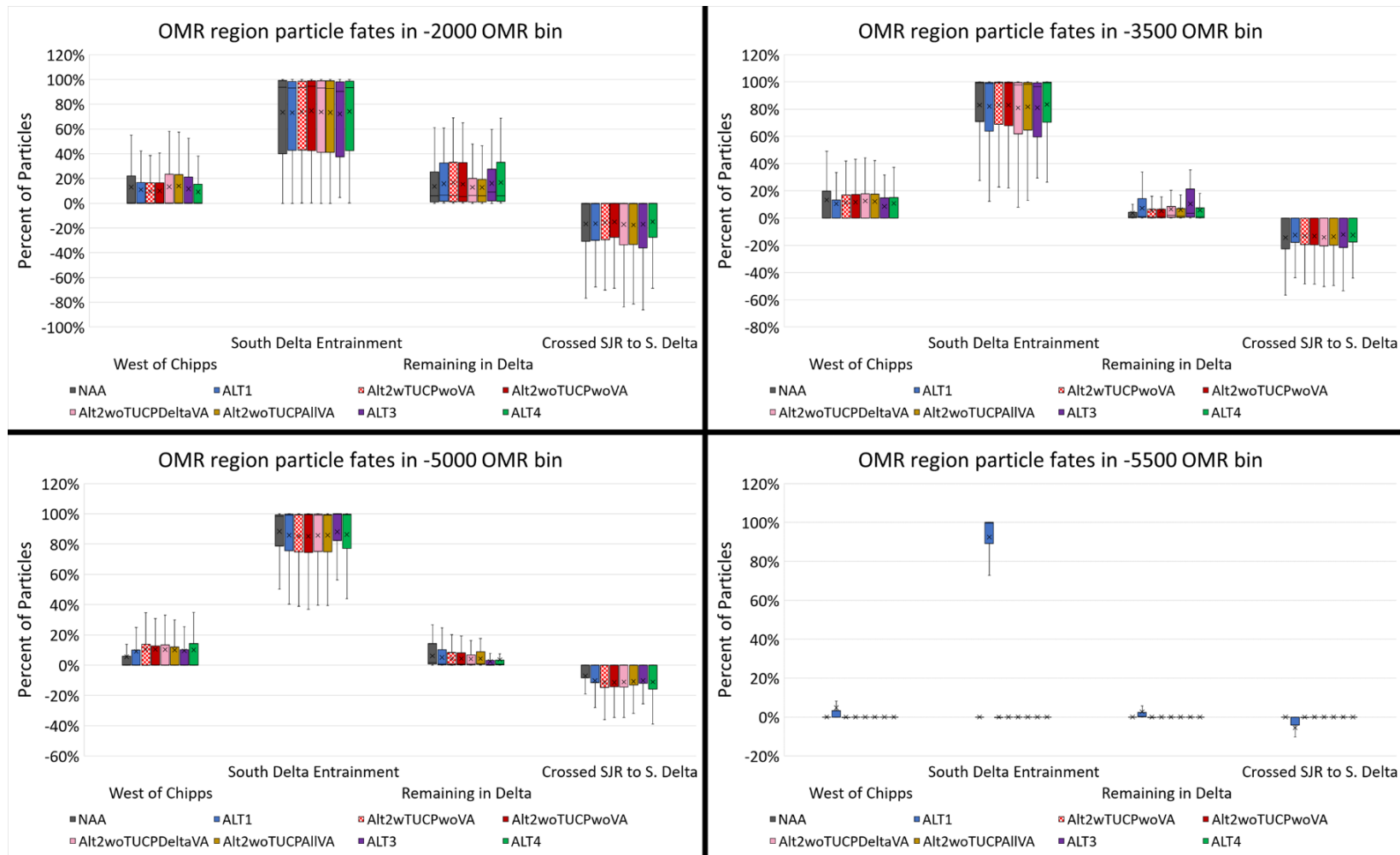


Figure I.8-49. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Old and Middle River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

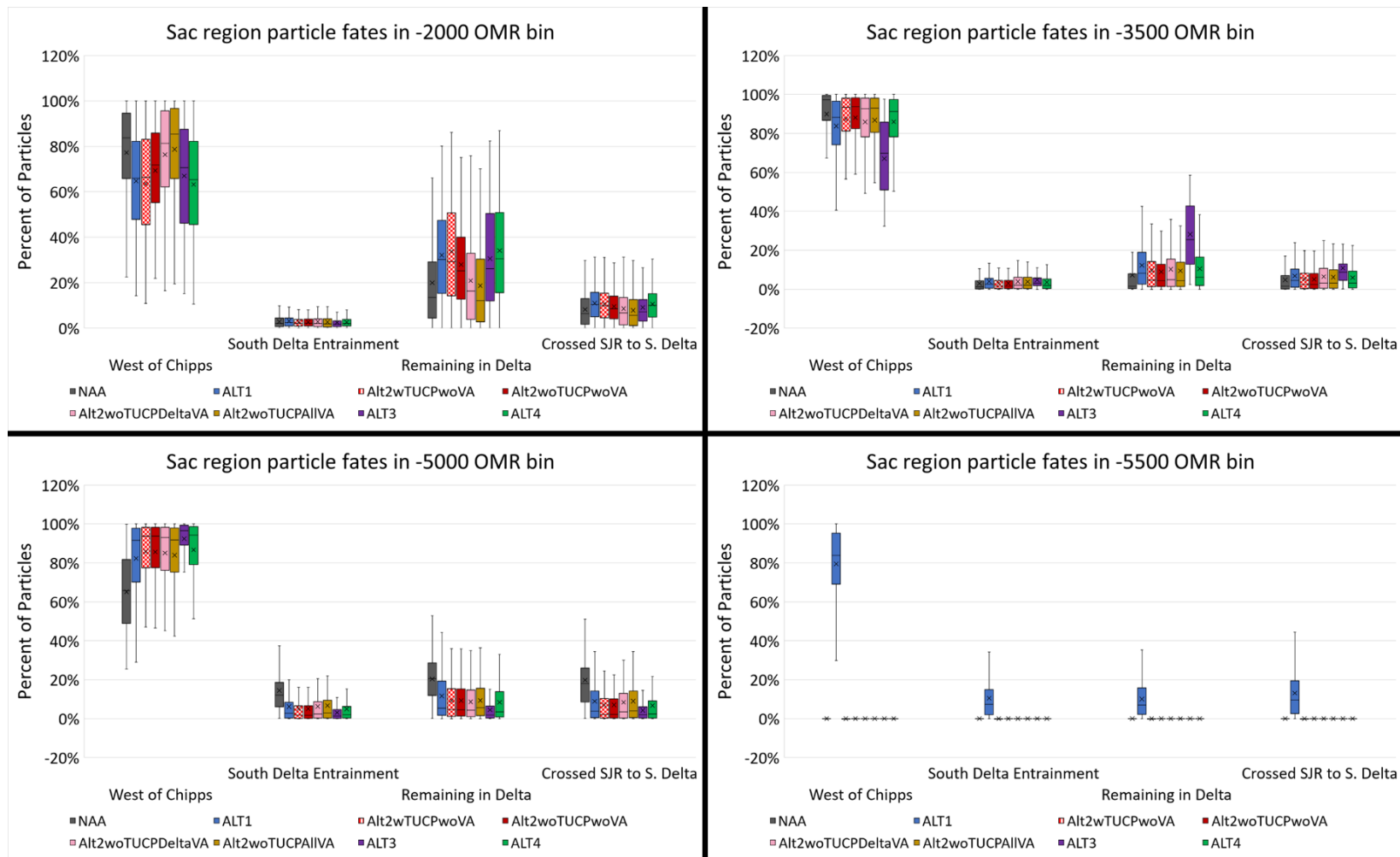


Figure I.8-50. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Sacramento River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

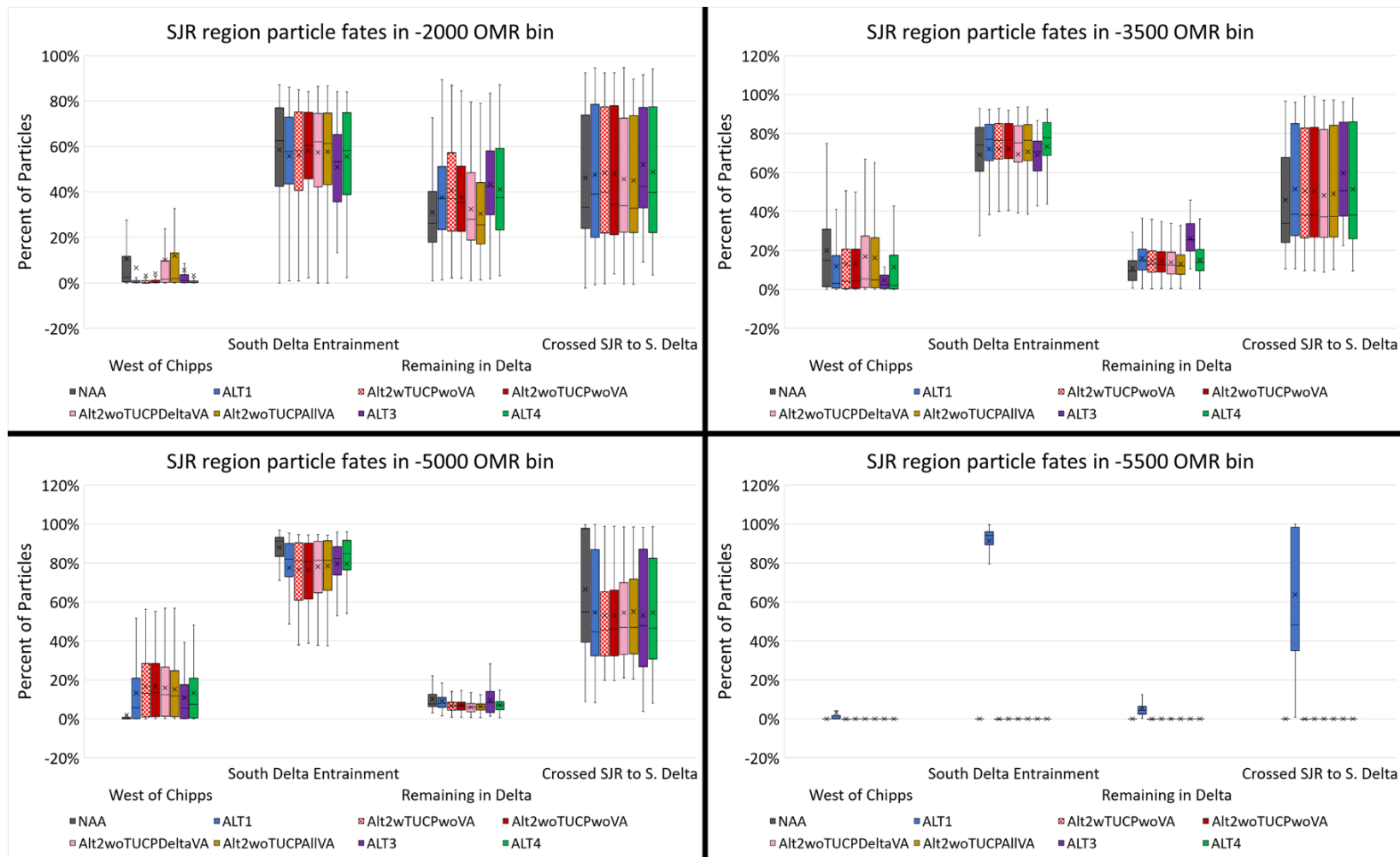


Figure I.8-51. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at San Joaquin River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

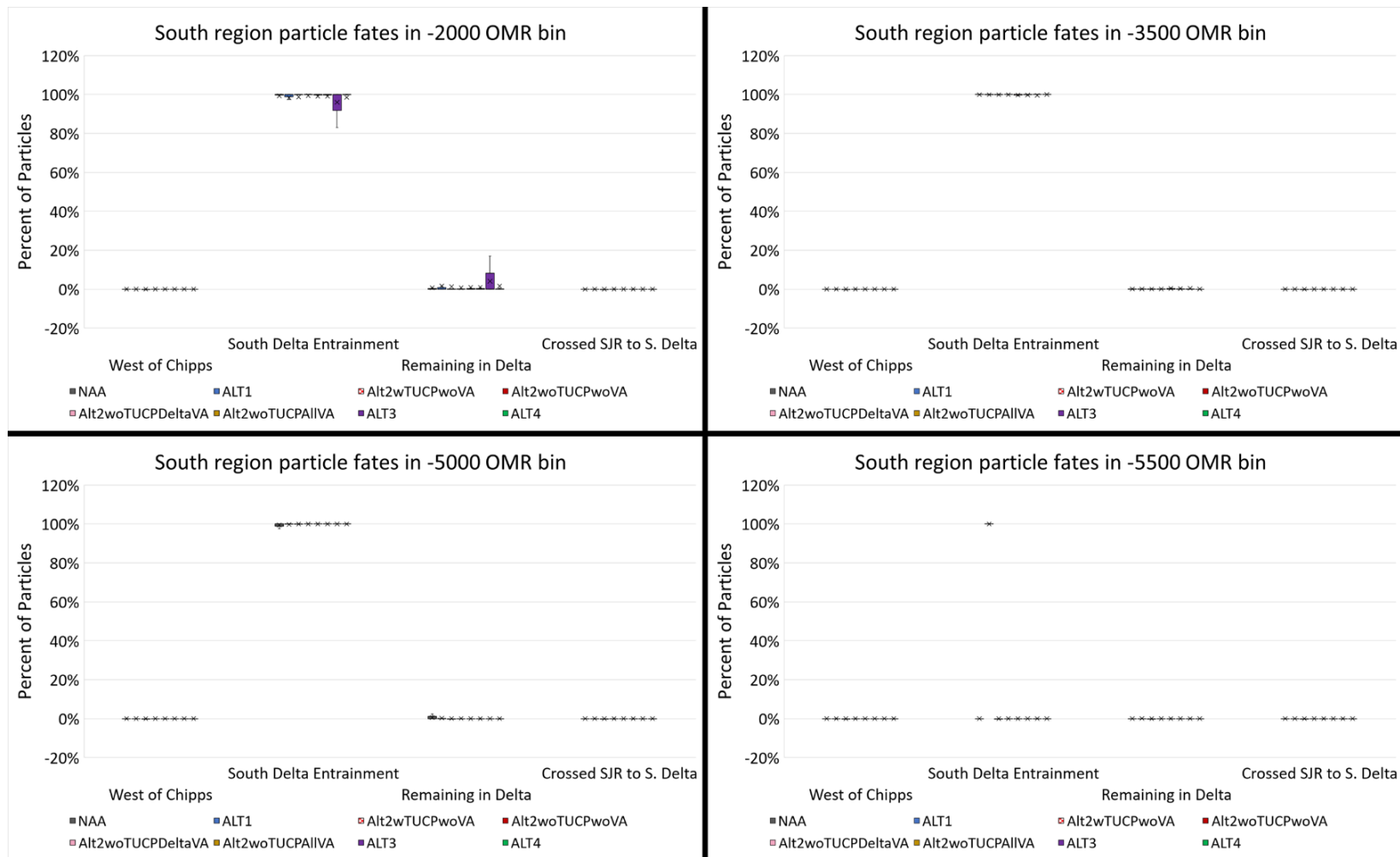


Figure I.8-52. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at South Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

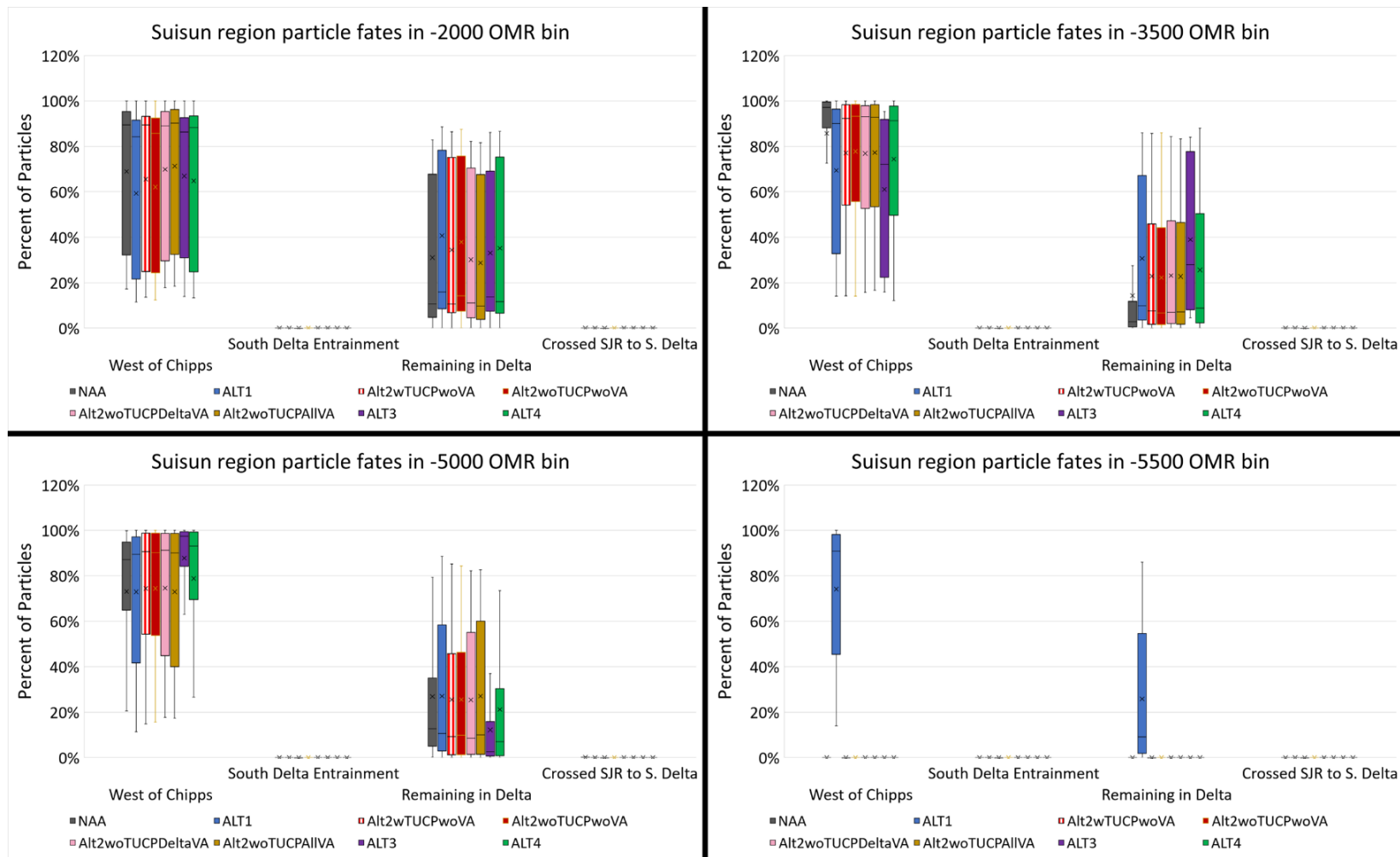


Figure I.8-53. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Suisun region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

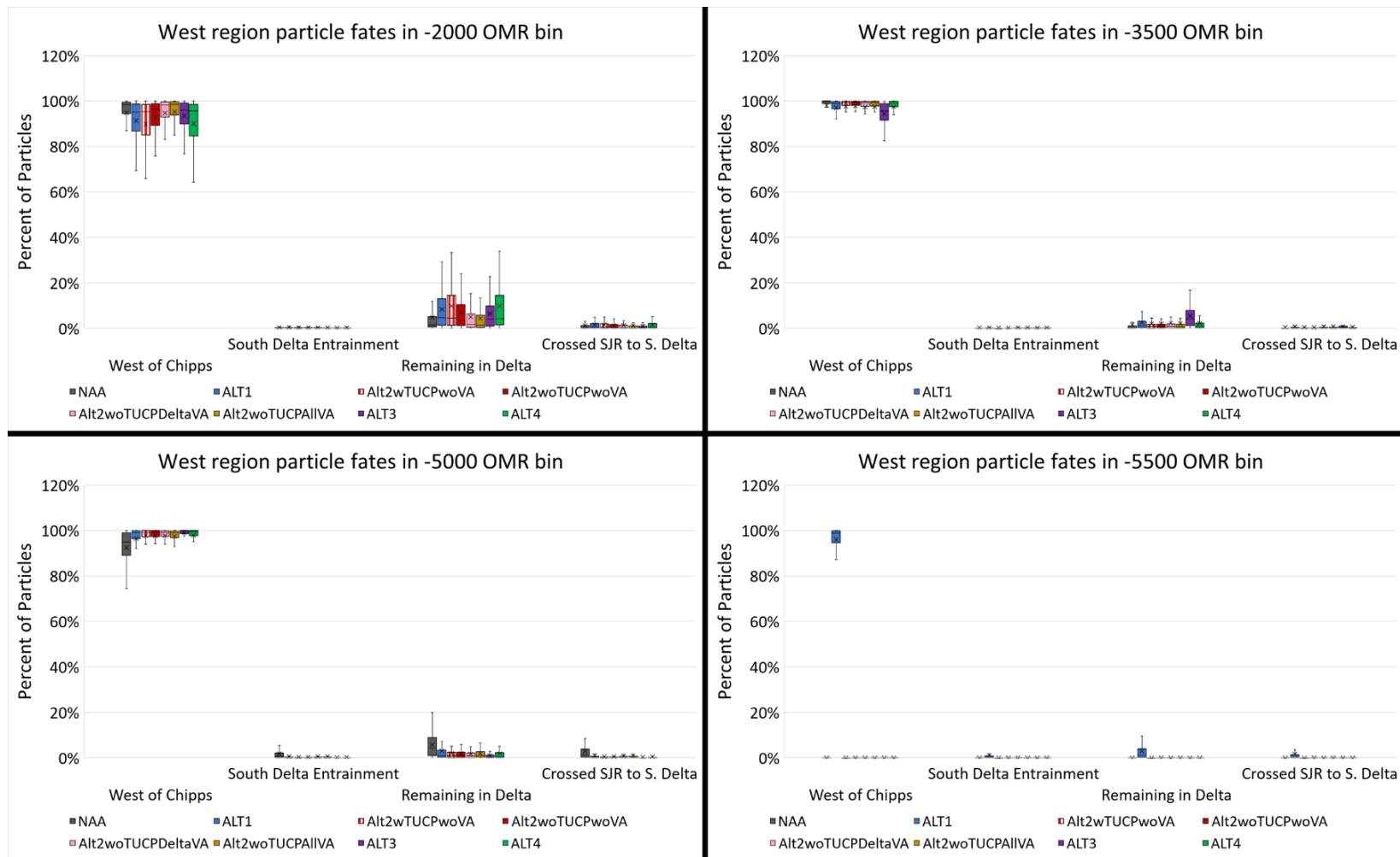


Figure I.8-54. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at West Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

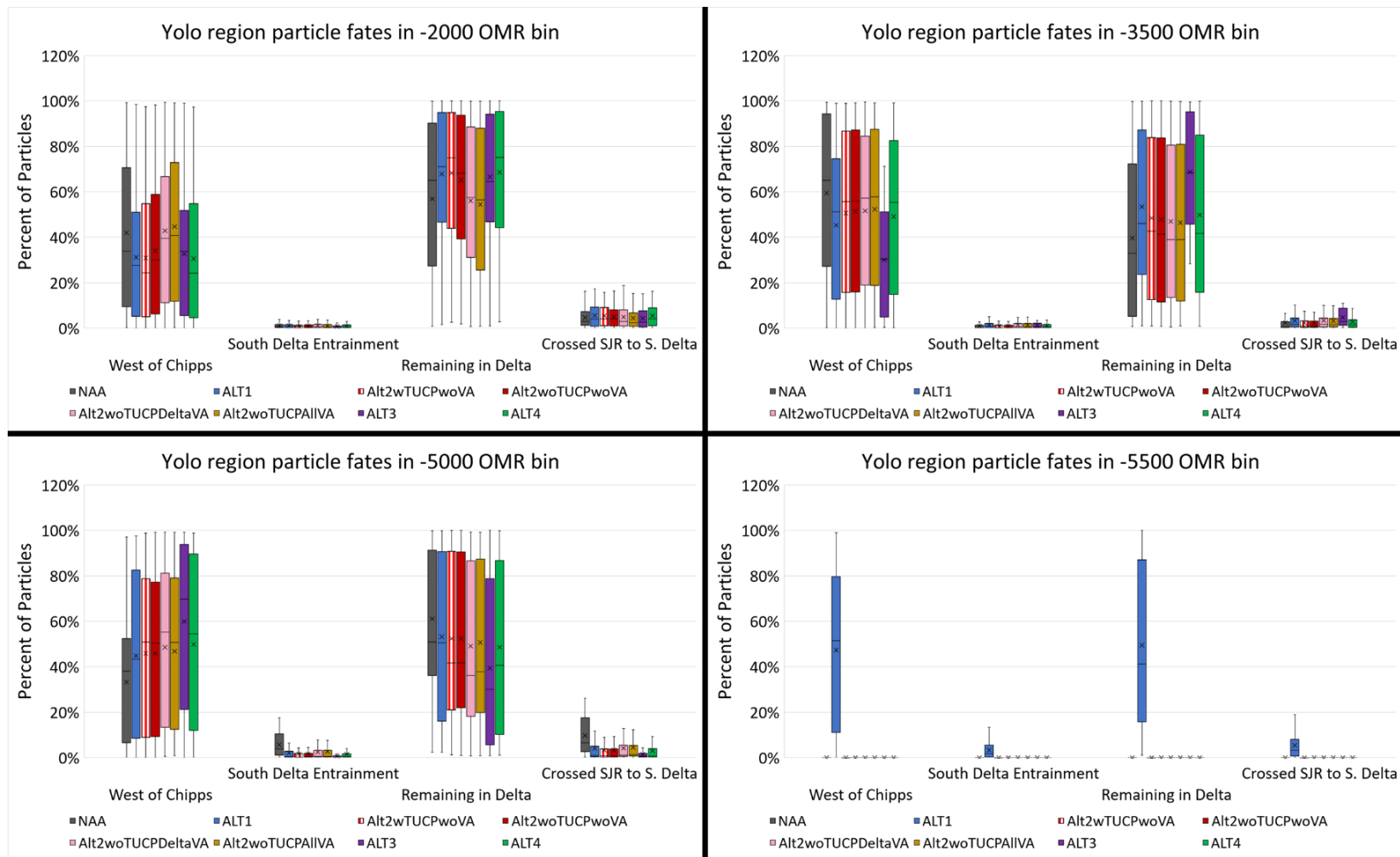


Figure I.8-55. Box and whisker plot of mean March through June particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for neutrally buoyant particles injected at Yolo region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

1.8.4.4.4 Surface Oriented, Inflow and OMR Bins [EIS, Figure I.8-56 through Figure I.8-73]

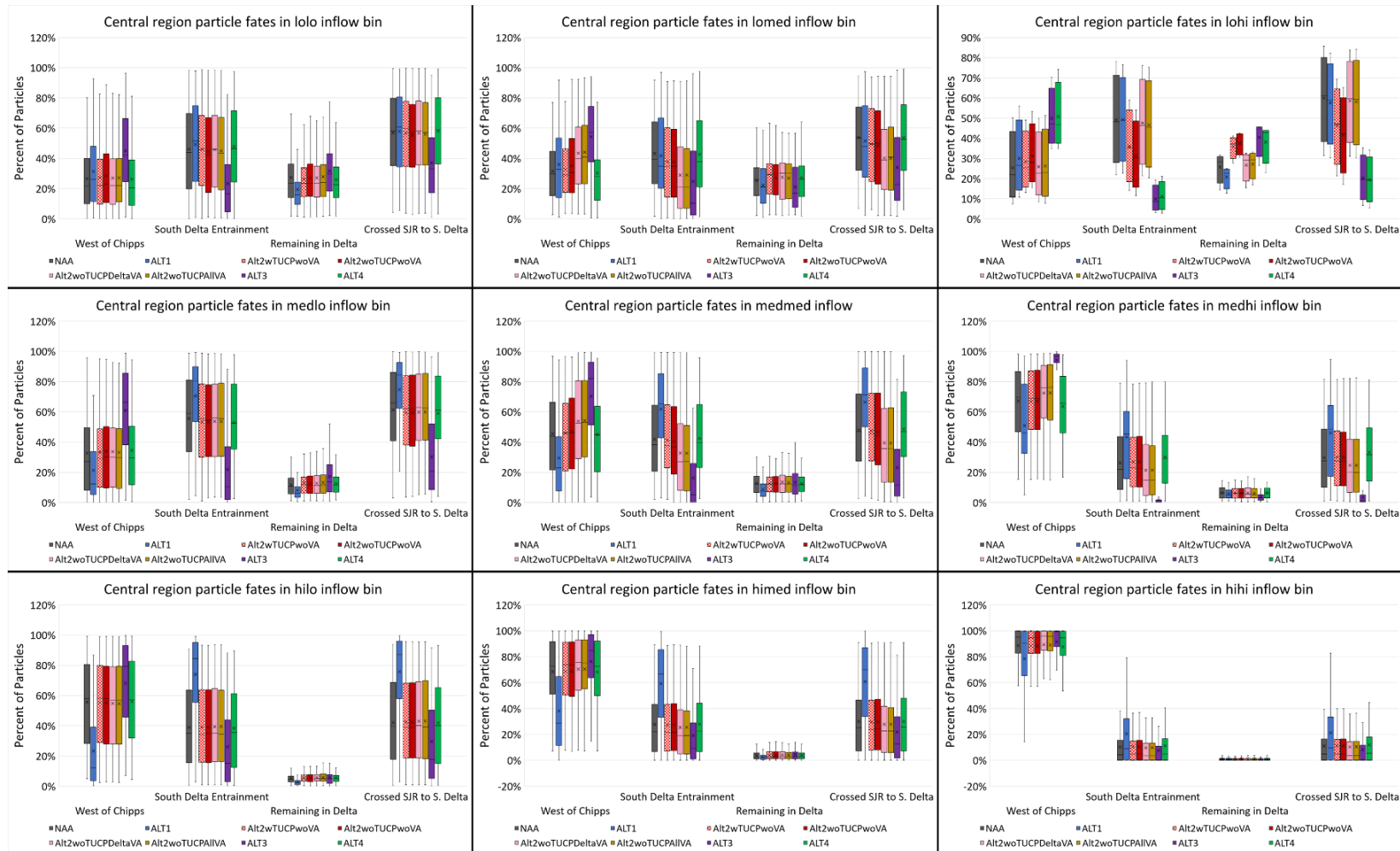


Figure I.8-56. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Central Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

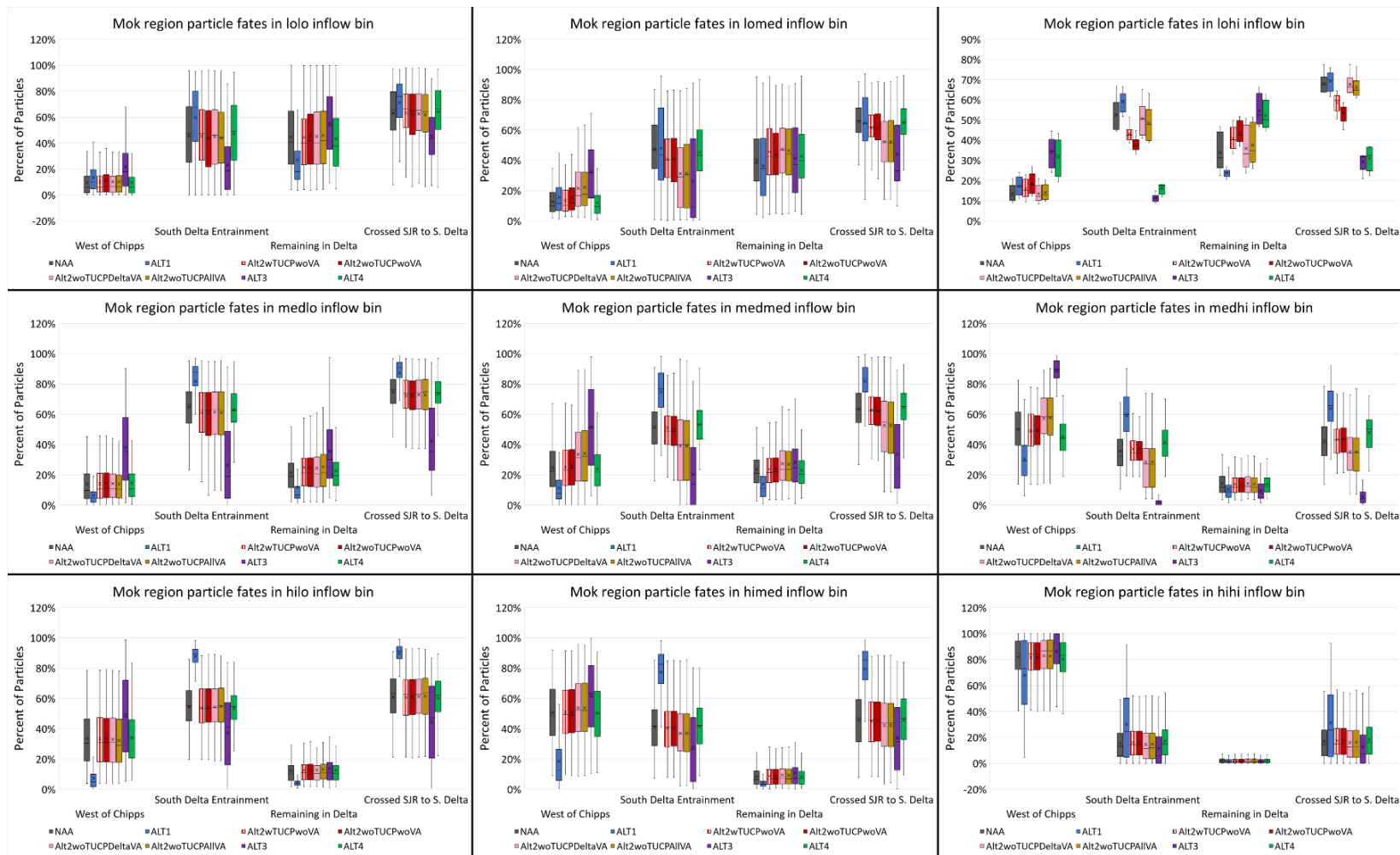


Figure I.8-57. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Mokelumne River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

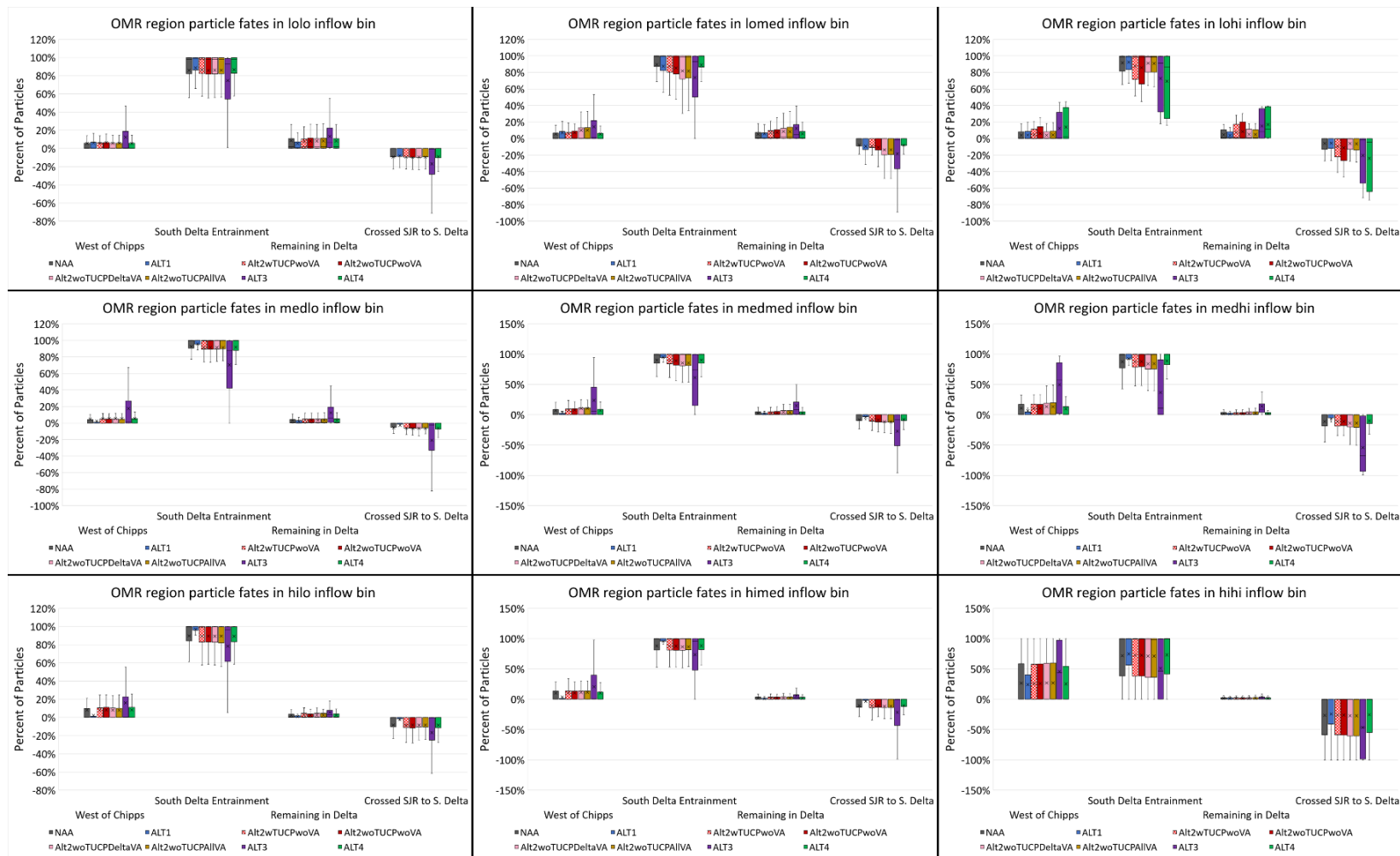


Figure I.8-58. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Old and Middle River region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

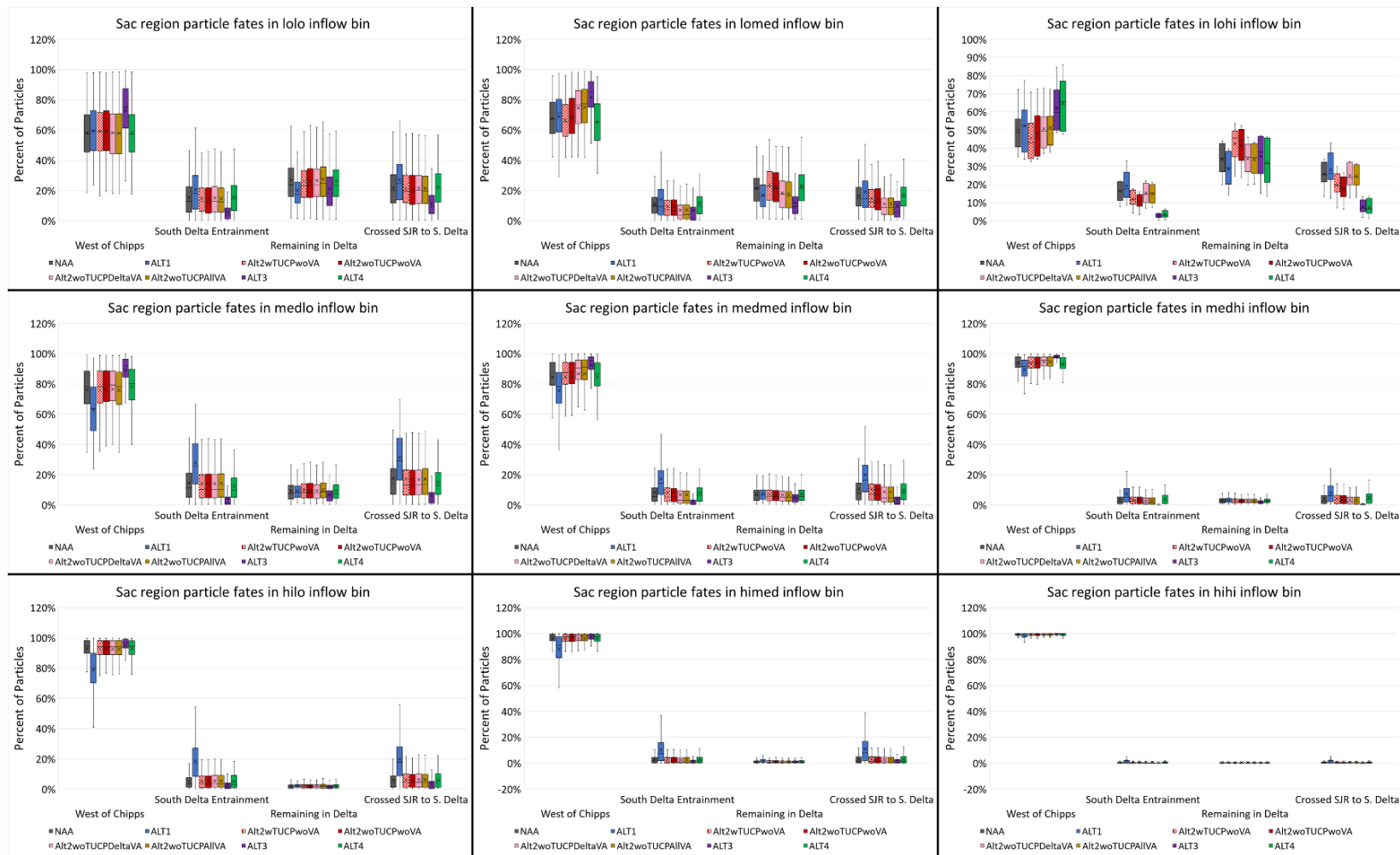


Figure I.8-59. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Sacramento River region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

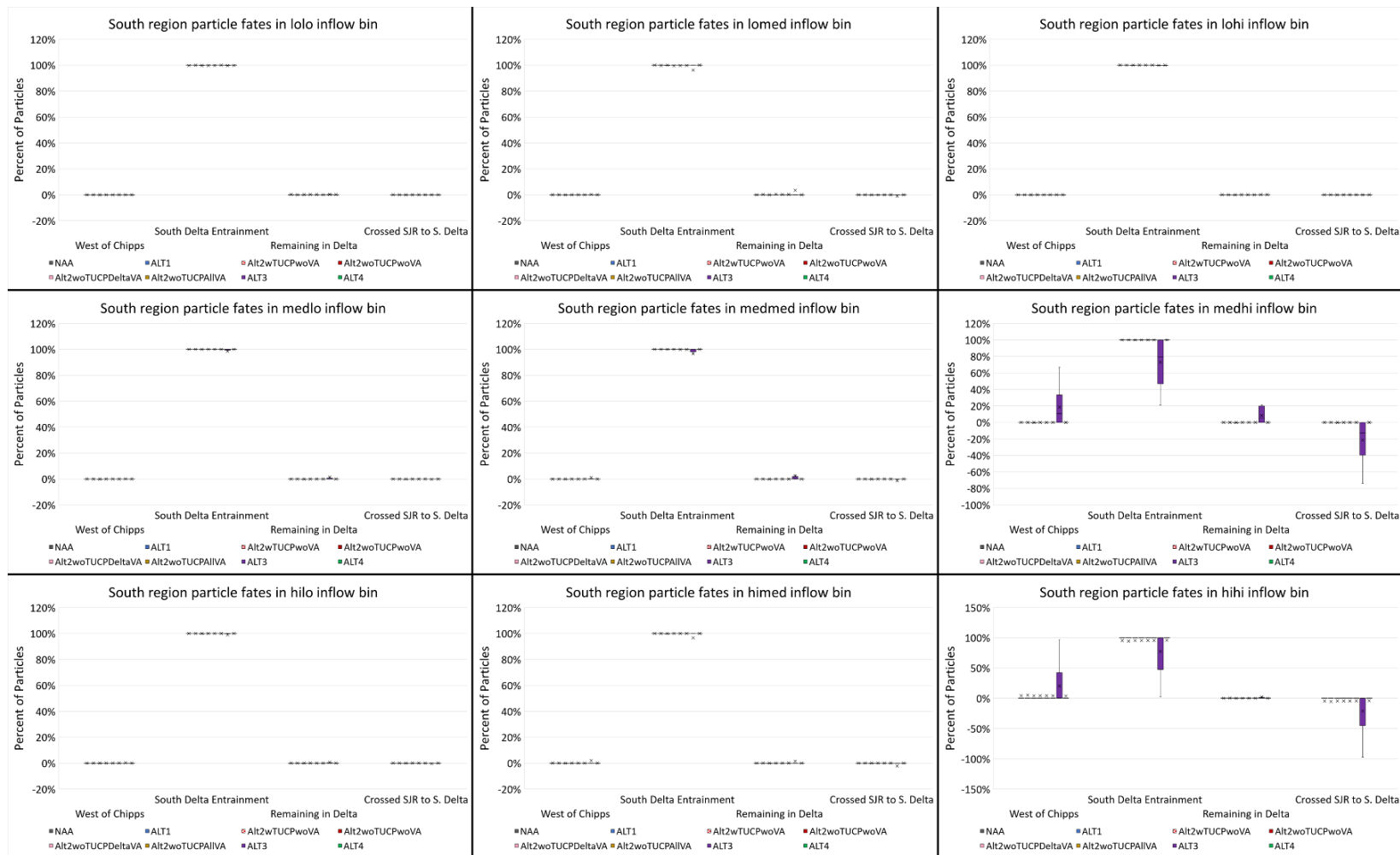


Figure I.8-61. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at South Delta region by Inflow Bin (from top left to bottom right: “lolo” to “hihi”) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

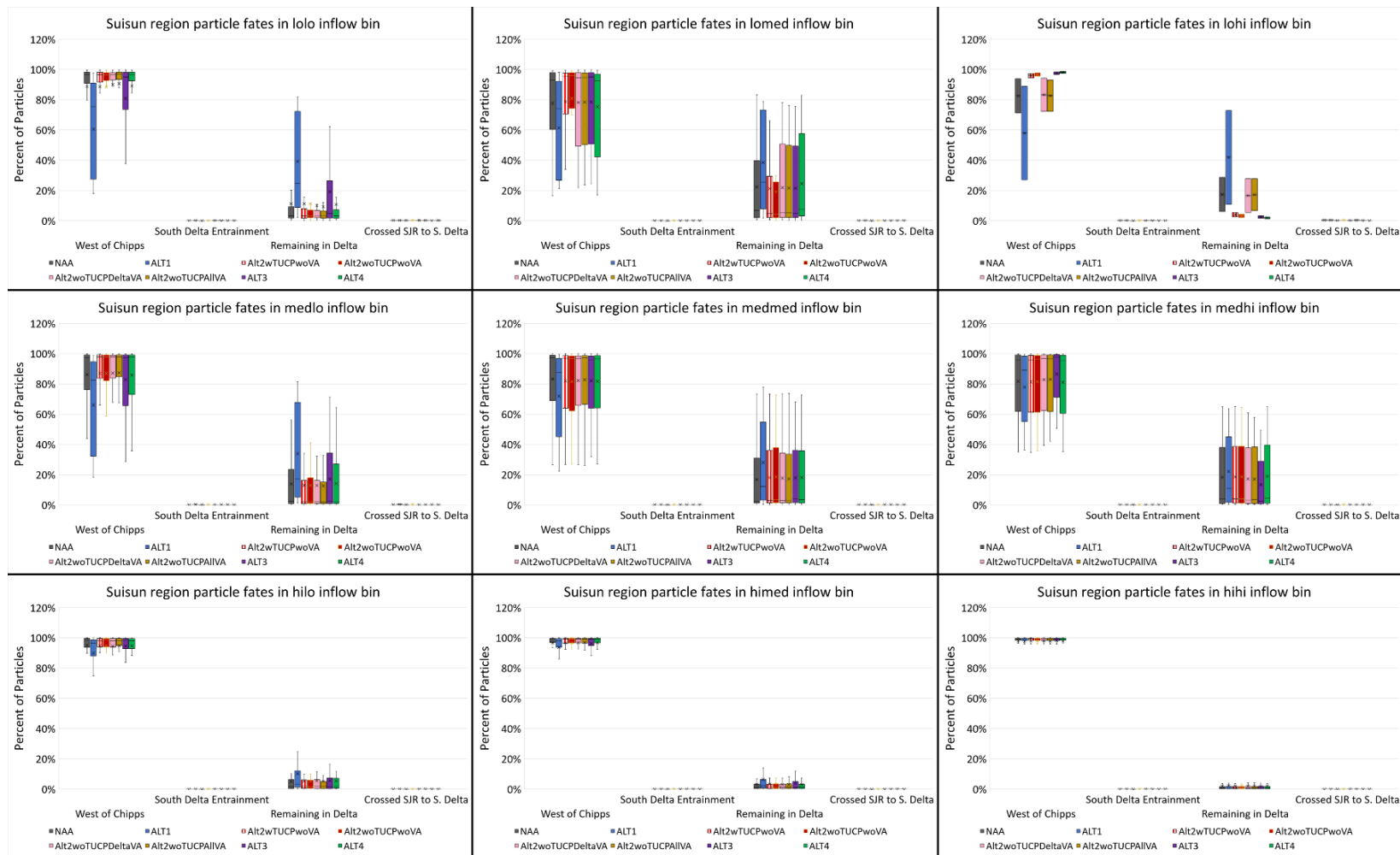


Figure I.8-62. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Suisun region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

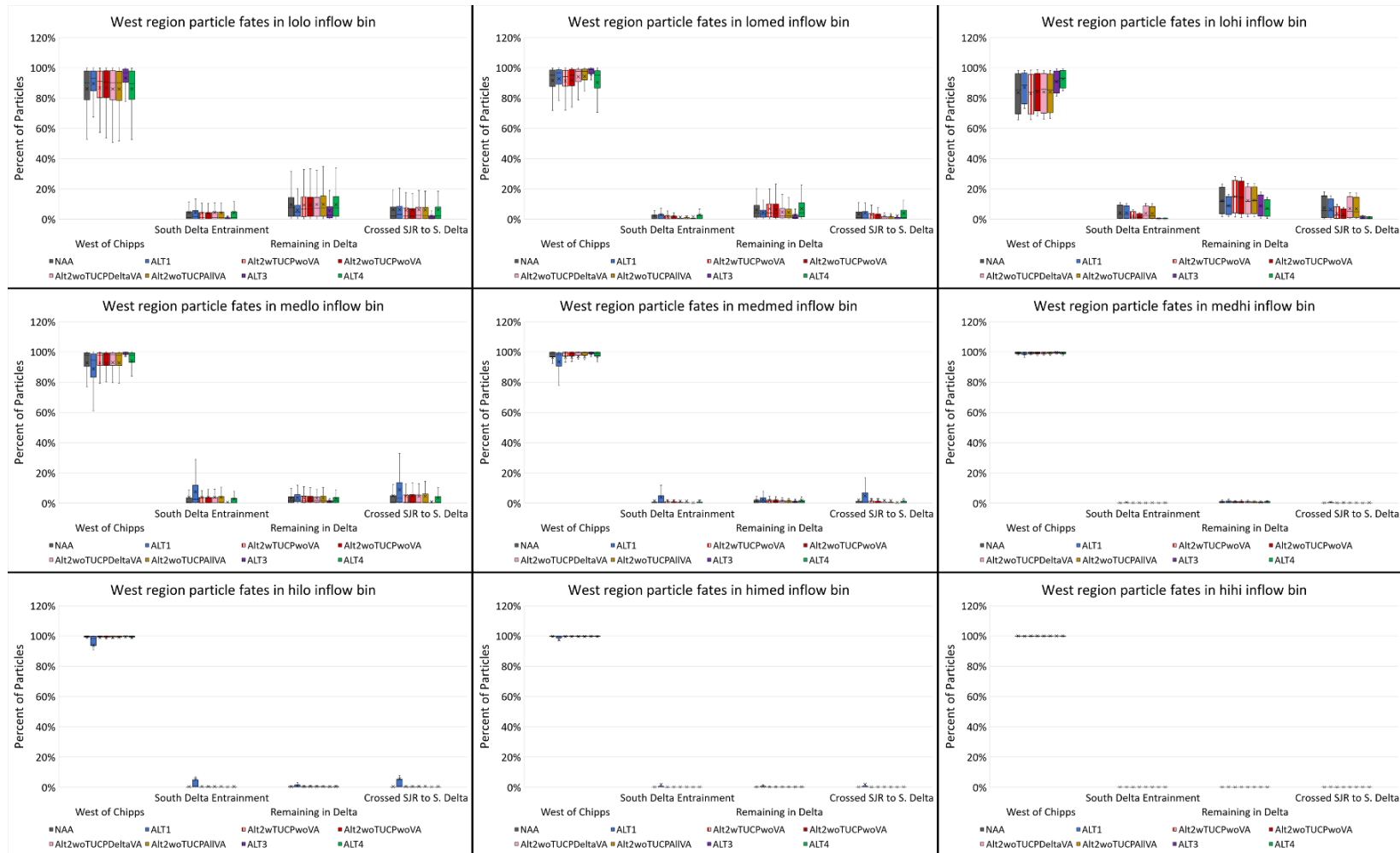


Figure I.8-63. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at West Delta region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

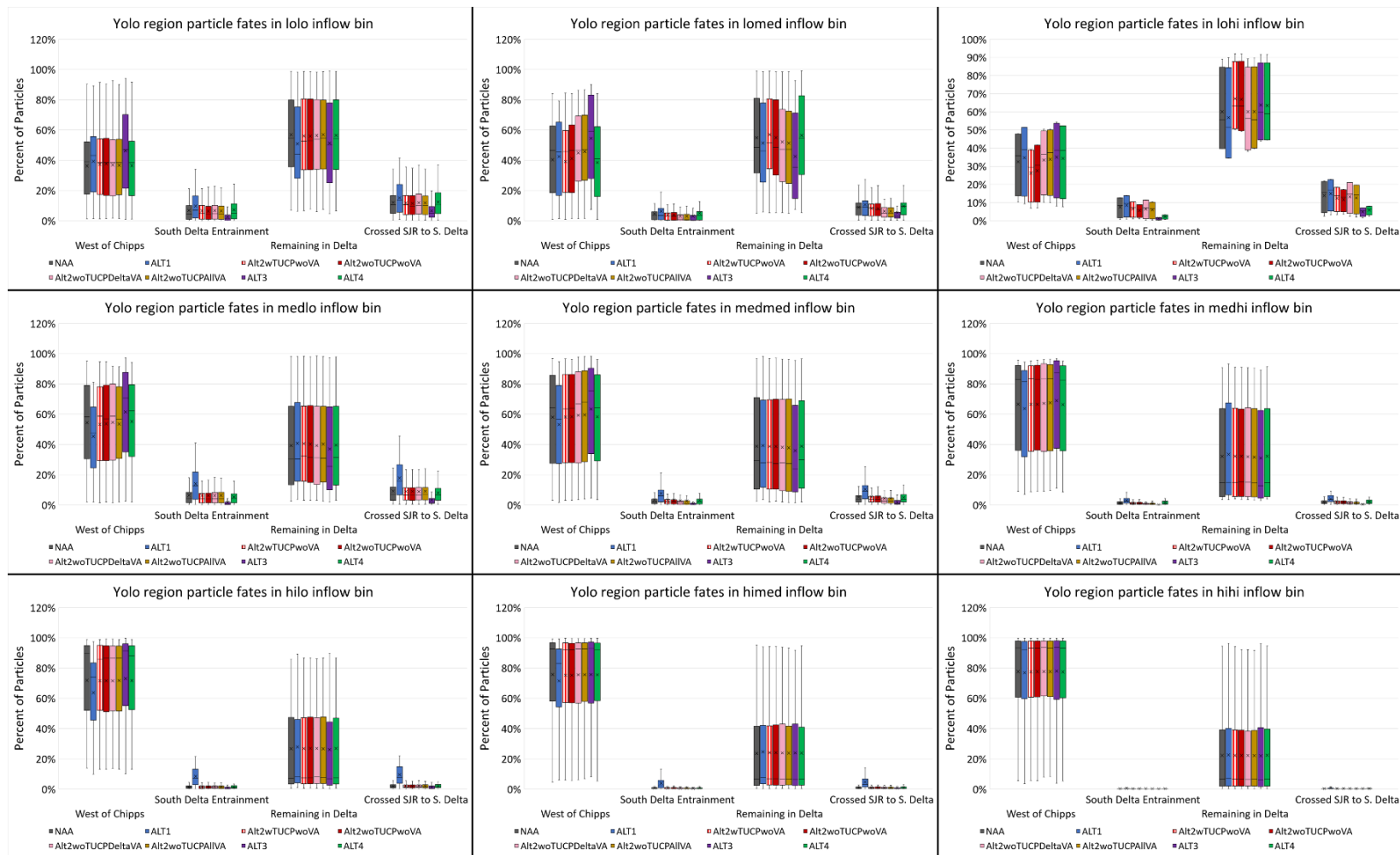


Figure I.8-64. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Yolo region by Inflow Bin (from top left to bottom right: "lolo" to "hihi") for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

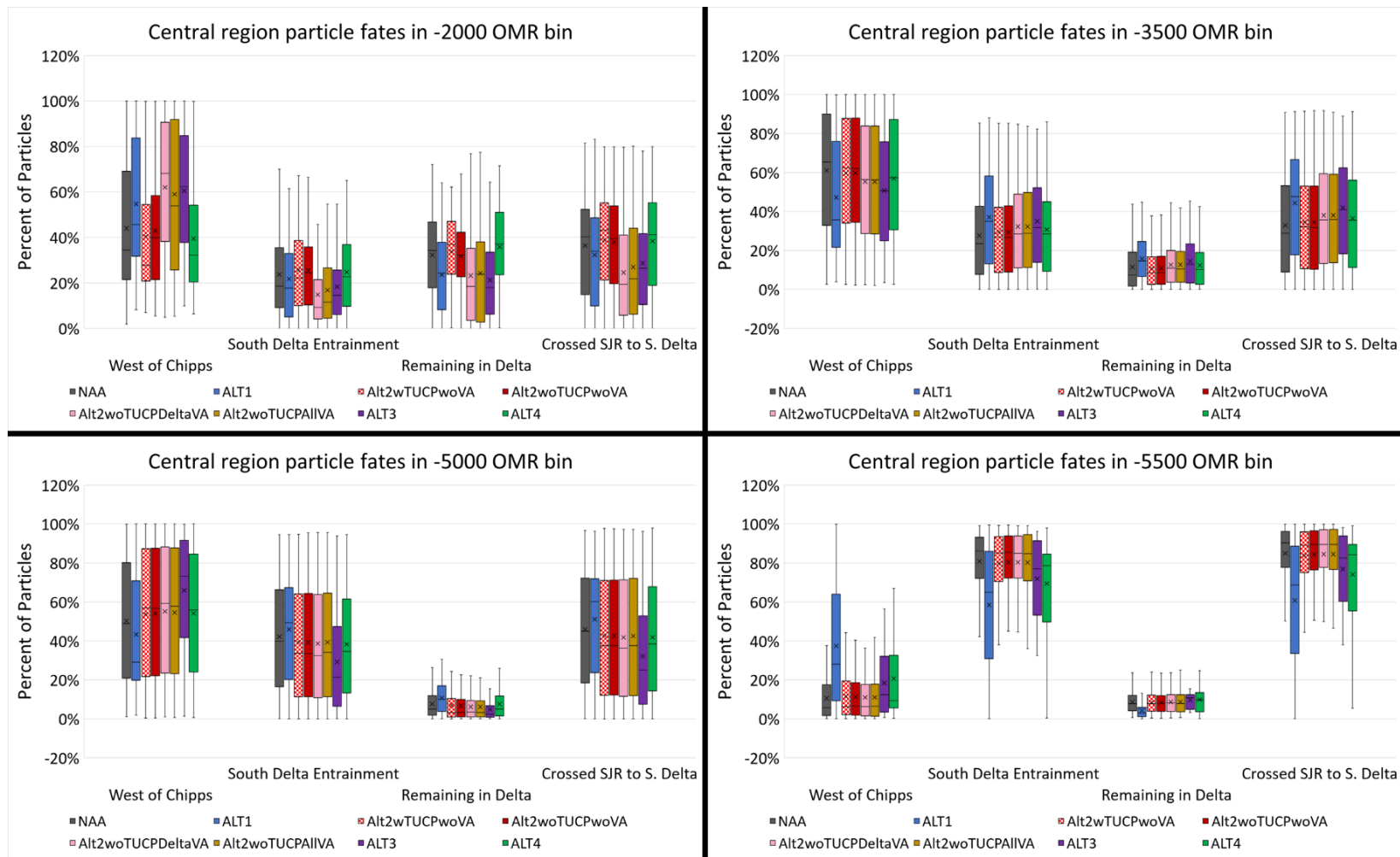


Figure I.8-65. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Central Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

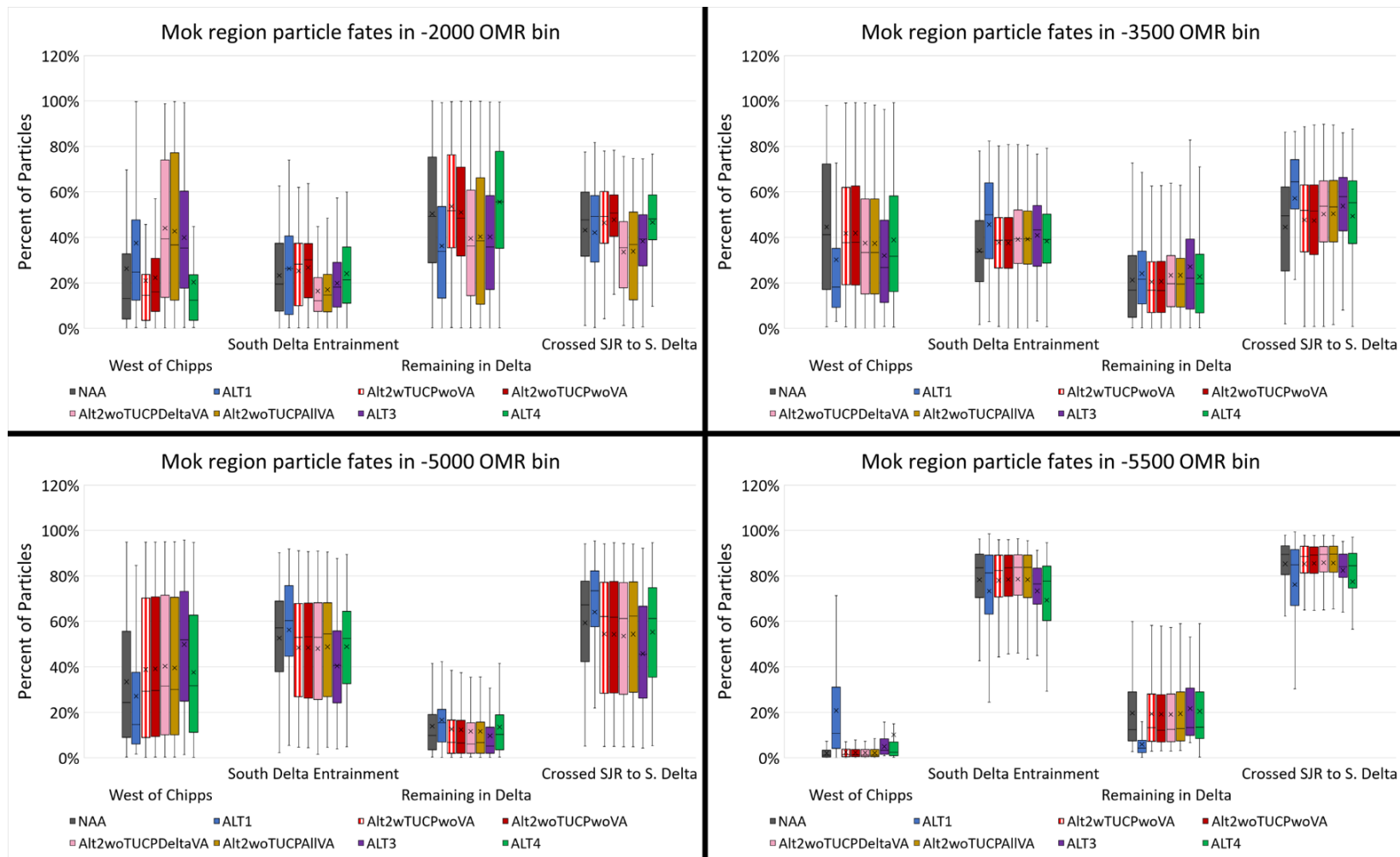


Figure I.8-66. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Mokelumne River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

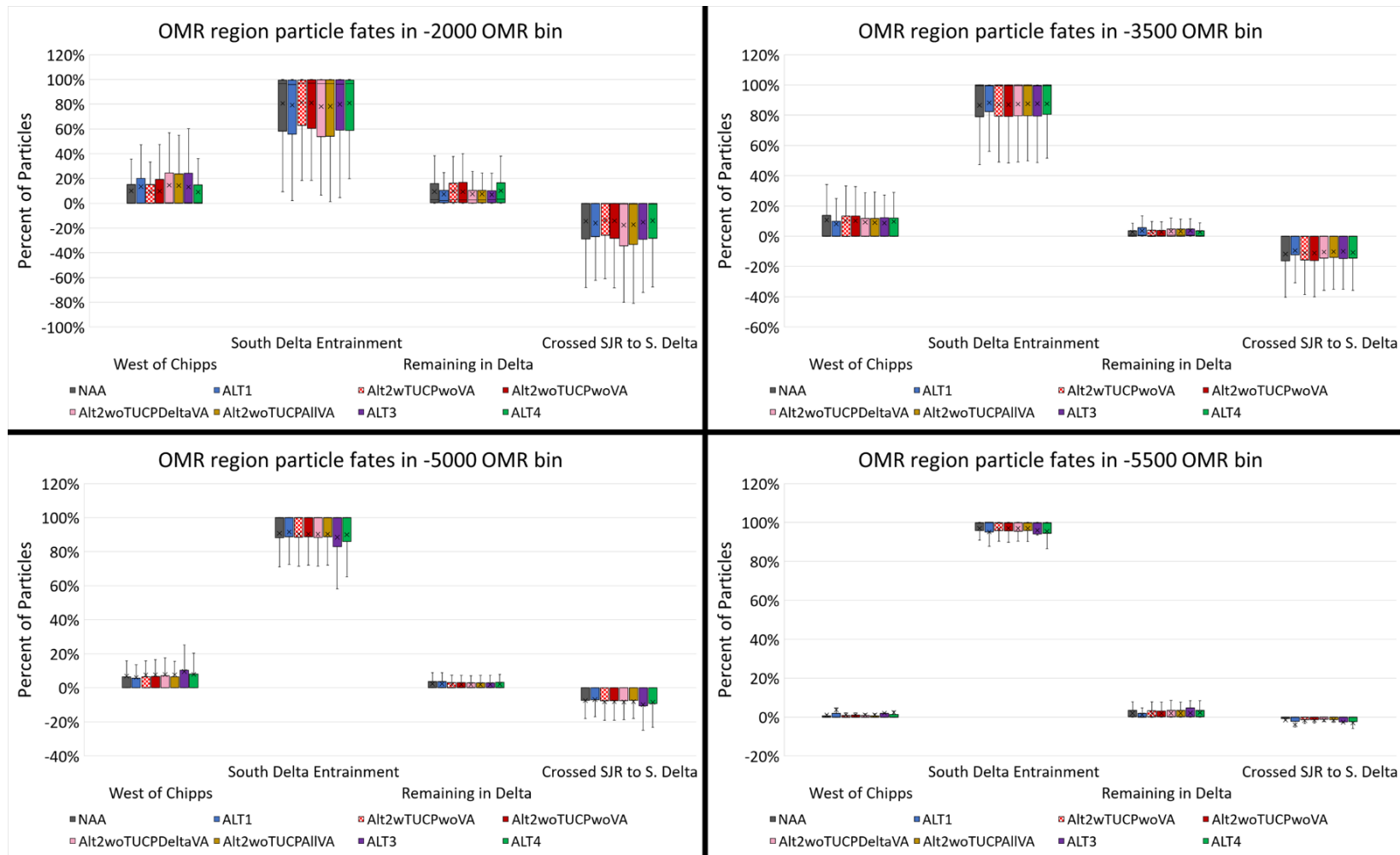


Figure I.8-67. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Old and Middle River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

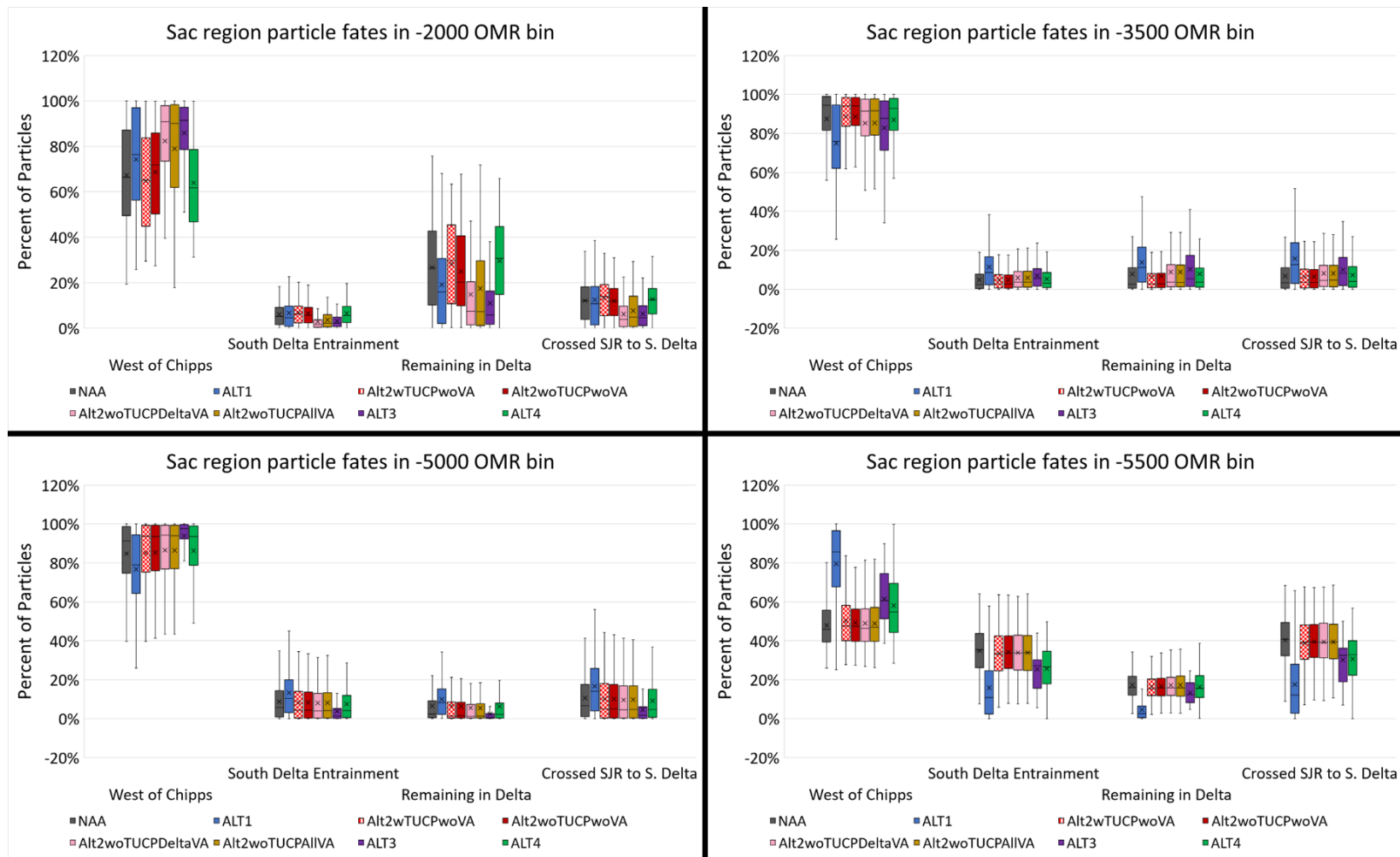


Figure I.8-68. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Sacramento River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

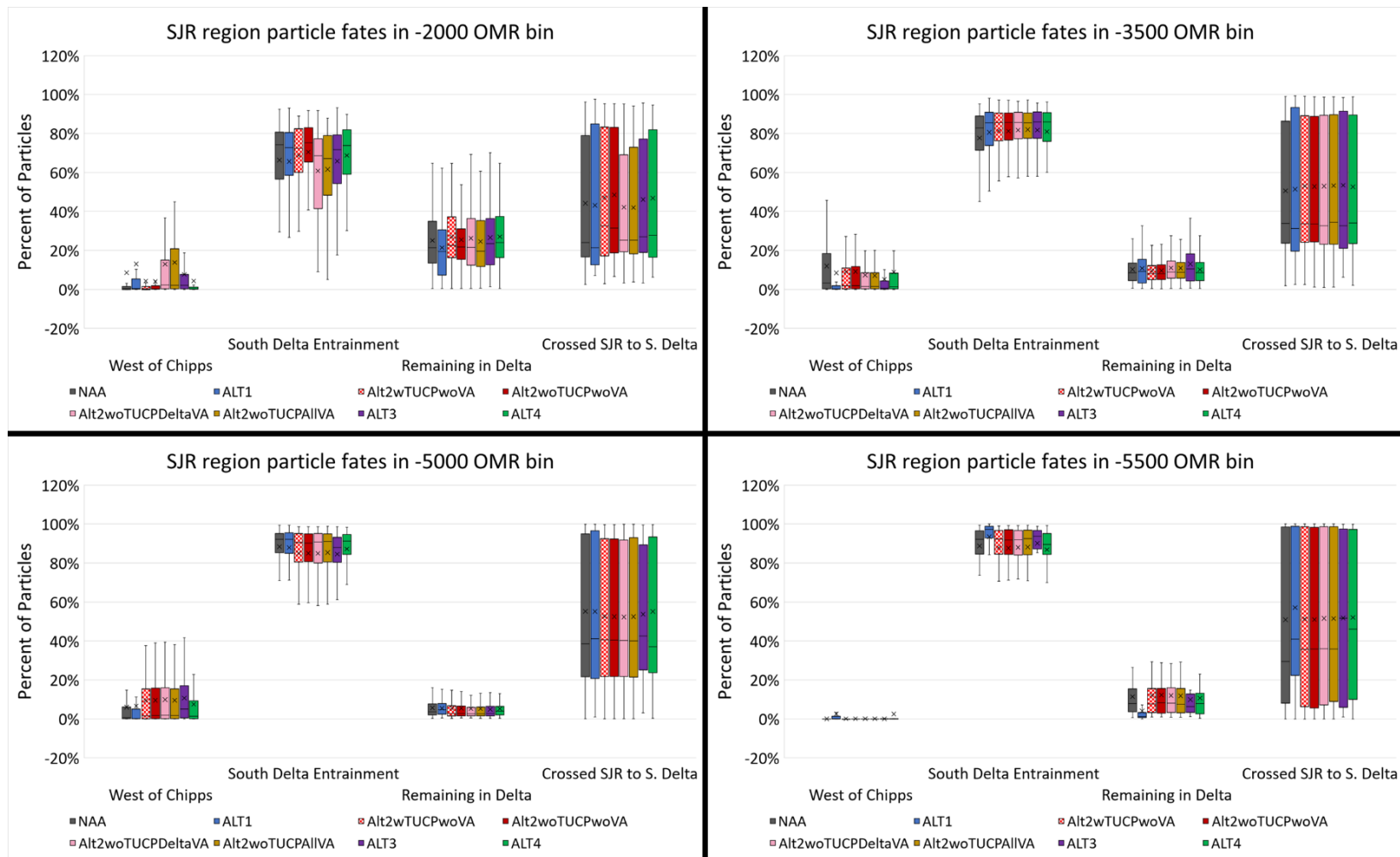


Figure I.8-69. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at San Joaquin River region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.



Figure I.8-70. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at South Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

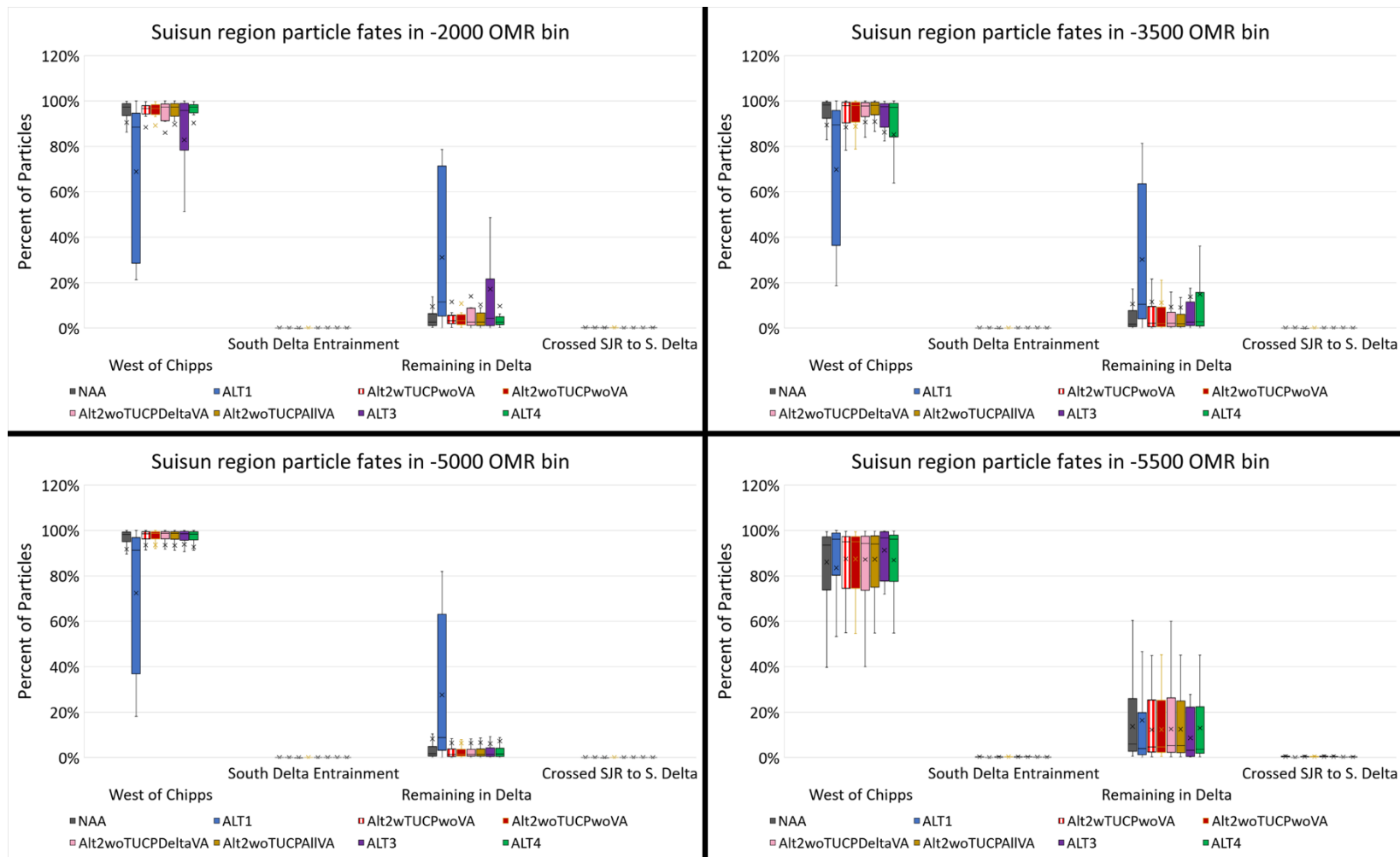


Figure I.8-71. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Suisun region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

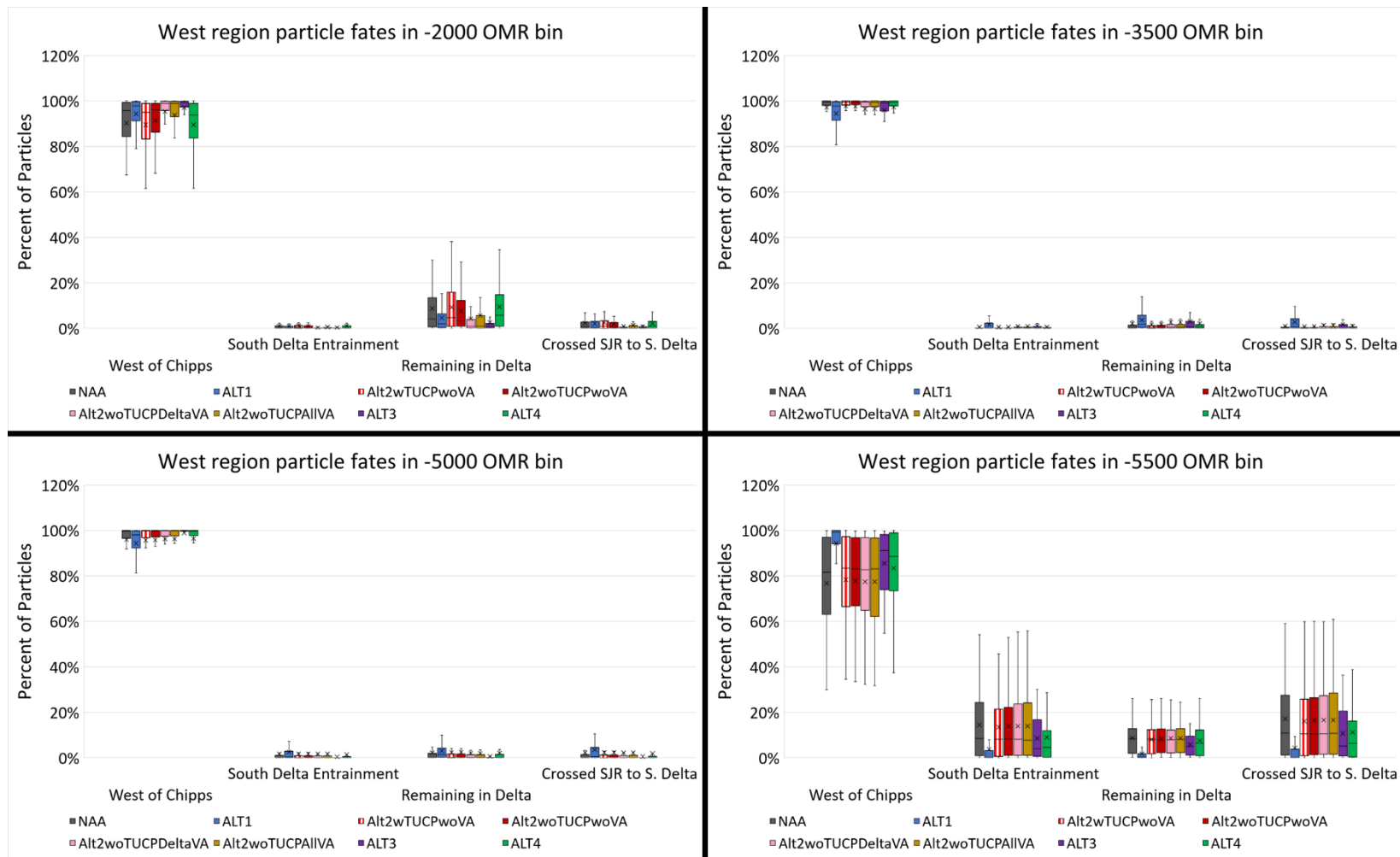


Figure I.8-72. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at West Delta region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

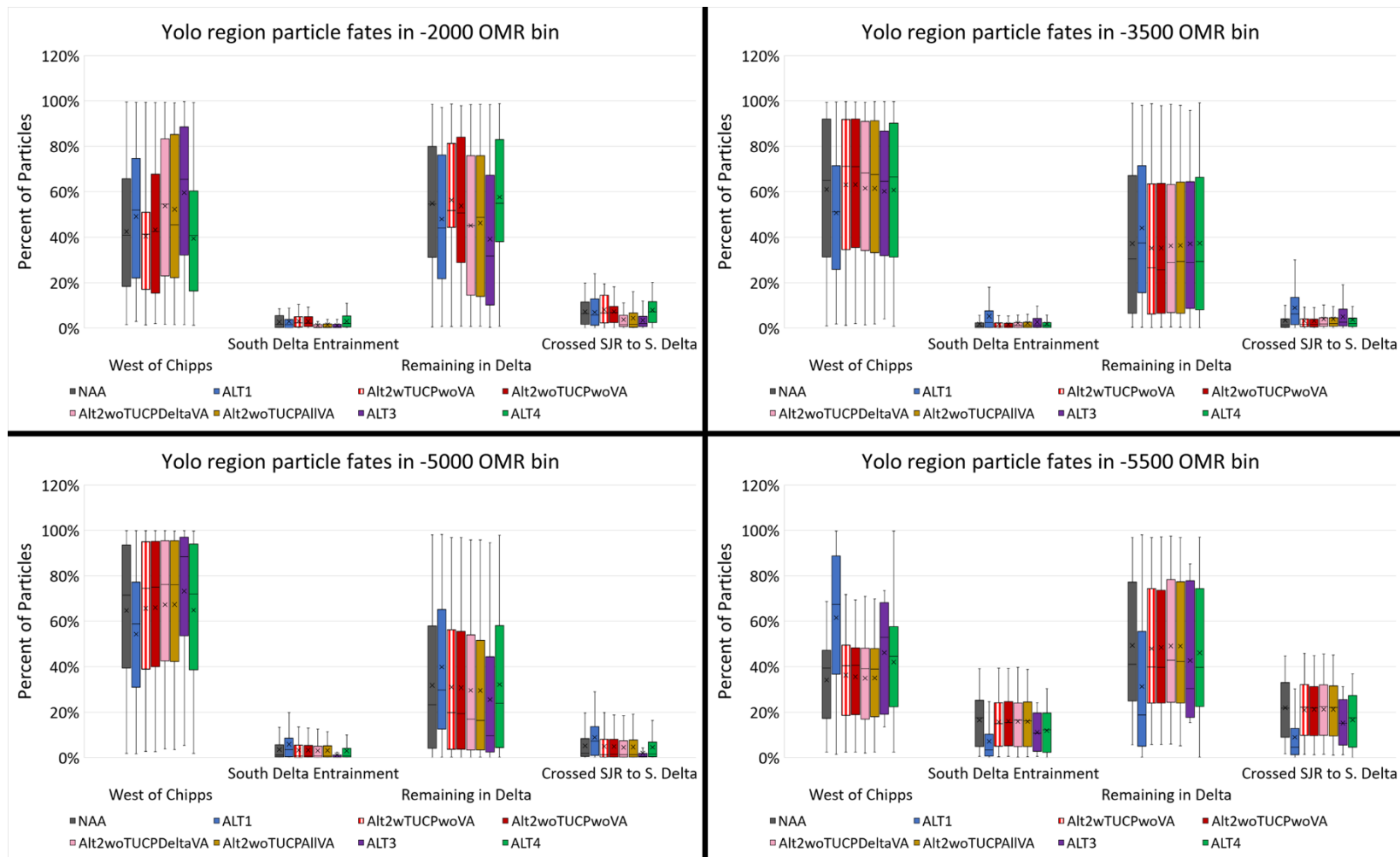


Figure I.8-73. Box and whisker plot of mean December through March particle fate after 45 days by exit location (within each facet from left to right: West of Chipps, South Delta Entrainment, Remaining in Delta, Crossed SJR to S. Delta) for surface oriented particles injected at Yolo region by OMR Bin (from top left to bottom right: -2,000 cfs, -3,500 cfs, -5,000 cfs, -5,500 cfs) for the No Action Alternative, Alternative 1, four phases of Alternative 2, Alternative 3, and Alternative 4.

I.8.5 References

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