

Figure 11-1 Combined Number of Fish Salvaged Annually at CVP and SWP South Delta Export Facilities, 1991–2010





24-inch Steel Pipe Pile in Dewatered Cofferdam Impact Driving



Figure 11-4 24-inch Steel Pipe Pile Impact Driving



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 1A, Based on the Proportional Entrainment Regression



Entrainment at the SWP/CVP South Delta Facilities for Alternative 1A, Based on the Proportional Entrainment Regression

(USFWS 2008a, with adjustment from Kimmerer 2011)



a Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 1A



Figure 11-1A-4 Clear Creek Flow Recommendations from Denton (1986) Instream Flow Incremental Methodology Study



Figure 11-1A-5

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 1A, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



a) Shasta Reservoir Storage Volume (TAF) as a Function of Elevation (feet);b) Shasta Reservoir Surface Area (acres) as a Function of Elevation (feet)



Measured Monthly Water Temperature Profiles in Shasta Reservoir during 1995



(Source: CALSIM and SRWQM results)



## Simulated Relationship between Shasta Storage and Coldwater Habitat Volume (TAF) for 1922–2003



for the Nine BDCP Alternatives and No Action Baseline

for the Late Long-Term for 1922–2003



for the Nine BDCP Alternatives and No Action Baseline for the Nine BDCP Alternatives and No Action Baseline



for the Nine BDCP Alternatives and No Action Baseline

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Figure 11-1A-13 Comparison of CALSIM-Simulated Folsom Reservoir Carryover Storage Sequence for the Nine BDCP Alternatives and No Action Baseline for the Late Long-Term for 1922–2003



Sequence for the Nine BDCP Alternatives and No Action Baseline for the Late Long-Term for 1922–2003



Figure 11-1A-15 Comparison of CALSIM-Simulated San Luis Reservoir Carryover Storage Sequence for the Nine BDCP Alternatives and No Action Baseline for the Late Long-Term for 1922–2003

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Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 2A, Based on the Proportional Entrainment Regression



Entrainment at the SWP/CVP South Delta Facilities for Alternative 2A, Based on the Proportional Entrainment Regression

(USFWS 2008a, with adjustment from Kimmerer 2011)



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 2A



Figure 11-2A-4

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 2A, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 3, Based on the Proportional Entrainment Regression



Entrainment at the SWP/CVP South Delta Facilities for Alternative 3, Based on the Proportional Entrainment Regression (USFWS 2008a, with adjustment from Kimmerer 2011)



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 3



Figure 11-3-4

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 3, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 4 (Scenarios H3, H1, and H4), Based on the Proportional Entrainment Regression



Average Annual Estimated Proportion of the Adult Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 4 (Scenarios H3, H1, and H4), Based on the Proportional Entrainment Regression



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 4 (Scenarios H1, H3, and H4)



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 5, Based on the Proportional Entrainment Regression



Average Annual Estimated Proportion of the Adult Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 5, Based on the Proportional Entrainment Regression



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 5



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 6A



Figure 11-6A-2

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 6A, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 7, Based on the Proportional Entrainment Regression



Average Annual Estimated Proportion of the Adult Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 7, Based on the Proportional Entrainment Regression



Delta Smelt Fall Abiotic Index (Hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 7



## Figure 11-7-4

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 7, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



Average Annual Estimated Proportion of the Larval/Juvenile Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 8, Based on the Proportional Entrainment Regression



Average Annual Estimated Proportion of the Adult Delta Smelt Population Lost to Entrainment at the SWP/CVP South Delta Facilities for Alternative 8, Based on the Proportional Entrainment Regression



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 8



## Figure 11-8-4

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 8, February through June, from 15 2-D and Daily CALSIM II Modeling Runs



Delta Smelt Fall Abiotic Index (hectares), Averaged by Water Year Type, with and without Restoration (100% occupancy assumed) under Alternative 9



## Figure 11-9-2

Frequencies of Inundation Events (for 82-Year Simulations) of Different Durations on the Yolo Bypass under Different Scenarios and Water Year Types under Alternative 9, February through June, from 15 2-D and Daily CALSIM II Modeling Runs