

SCENARIO #3 -

Scenario Features - Actively Manage Flex Operations under the following criteria:

1. Aggressively trigger restrictions to provide a high level of protection for fish from entrainment/salvage at the export pumps, while still providing additional relaxations on exports to make up a portion of the exports foregone by restrictions. Added protection beyond Accord, AFRP, and Common Program would be provided spring run smolts (fall), salmon fry, steelhead smolts, and delta smelt adults (winter), and delta smelt young, striped bass young, and San Joaquin salmon smolts (spring and summer).
2. Provide for limited additional restrictions on X2 standard to provide additional fish protection in dry and below normal years.
3. If monitoring indicates little or no risk to fish, export restrictions under Accord would be reduced to a less restrictive level; otherwise export restrictions would remain in place.
4. New water supply would be developed to make up water supply losses to ag/urban water users.

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Months	Present Standards	Target	Target Year Type	flex ops triggers (in order of application)	E/I & Export Restrictions	QWEST	X2	VAMP	DCC& Hood	HOR	Habitat
Jan-Mar		<p><b>Restrictions</b> for delta smelt adults, steelhead smolts, and salmon fry (all show at export facilities in most winters under high exports (8-15kcfs). Salvage events are often associated with declining outflow and QWEST as system operations come under control). Largest salmon and steelhead events occur under very high outflows that transport many salmon fry and steelhead smolts into the central and south Delta.</p>	All year types.	<ol style="list-style-type: none"> <li>1. presence of significant portion of delta smelt population in central and south Delta.</li> <li>2. Under rapidly falling QWEST or QWEST below 1000cfs.</li> <li>3. presence of delta smelt in salvage above 100 individuals per day (per facility)</li> <li>4. Presence of salmon fry in salvage above 1000 individuals per day (per facility)</li> <li>5. Presence of steelhead smolts in salvage above 100 individuals per day (per facility)</li> </ol>	<p>If 1, then limit exports to &lt;10,000 cfs</p> <p>If 2, then limit exports &lt;8,000 cfs.</p> <p>If 3 or 4 or 5, then limit exports &lt;6,000 cfs. If either 3, 4, or 5 persist reduce export to 1500 cfs for up to 10 days.</p>	<p>If 1, then maintain at -1,000 or higher - limit drop to 1,000 cfs per week</p> <p>If 1 and 2, then limit to &gt;500cfs</p> <p>If 3 or 4 or 5, then limit to &gt;1,000 cfs</p>	If 1 and 3, then maintain X2 at least as far downstream as Chipps Island.	NA	DCC closed, otherwise both are pen as needed to satisfy QWEST requirements	If 2, then keep open, unless large numbers of San Joaquin salmon fry are indicated from Monitoring at Mossdale	If 1, 2, and 3, then flood additional habitat
		<p><b>Relaxations</b> on exports for the purpose of improving water supply</p>	All year types.	<ol style="list-style-type: none"> <li>1. delta inflows exceed 50K cfs</li> <li>2. Delta inflows are steady or rising and exceed 20,000 cfs.</li> <li>3. 5 day running averages of smelt and steelhead salvage are below 10 and salmon salvage is below 100 individuals per day and monitoring indicates a significant portion of the delta smelt population is not in the Central or South Delta.</li> </ol>	No export constraints under 1 or 2 or 3, except above restrictions apply.	Nothing to relax.	If 1 or 2, and 3, then no constraints.	NA	--	--	--

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Months	Present Standards	Target	Target Year Type	flex ops triggers (in order of application)	E/I & Export Restrictions	QWEST	X2	VAMP	DCC& Hood	HOR	Habitat
Apr-Jun		<p><b>Restrictions</b> for delta smelt young, striped bass young, and salmon and steelhead smolts, (they show at export facilities in most springs under a wide range of exports. Salvage events are often associated with declining outflow and QWEST as system operations come under control)</p>	All year types.	<p>1. presence of significant portion of delta smelt population in central and south Delta (winter adults or spring young). 2. Under rapidly falling QWEST or QWEST below 1000cfs. 3. presence of delta smelt in salvage above 500 individuals per day (per facility) 4. Salmon smolt salvage exceeds 1000 per day per facility. 5. Steelhead smolt salvage exceeds 100 per day per facility.</p>	<p>If 1, then limit exports to &lt;10,000 cfs If 2, then limit exports &lt;8,000 cfs. If 3 or 4 or 5, then limit exports &lt;6,000 cfs.</p>	<p>If 1, then maintain at -1,000 or higher; and limit change to 1,000 cfs per week If 1 and 2, then limit to &gt;500cfs If 3, then limit to &gt;1,000 cfs</p>	If 1 and 3, then maintain X2 at least as far downstream as Chipps Island.	If 1, 2, <u>and</u> 3, then extend 20 days.	Open as needed to satisfy QWEST requirements	If 1 and 2, then keep open	If 1, 2, and 3, then flood additional habitat
		<p><b>Relaxations</b> on exports for the purpose of improving water supply</p>	All year types.	<p>1. delta inflows exceed 50K cfs 2. Delta inflows are steady or rising and exceed 20,000 cfs. 3. 5 day running average of smelt and steelhead salvage is below 100 individuals per day and salmon salvage is below 1000 per day, and monitoring indicates a significant portion of the delta smelt population is not in the Central or South Delta.</p>	<p>No export constraints under 1 or 2, except above restrictions apply. If 3, then only above restrictions apply.</p>	Nothing to relax.	If 1, or 2, <u>and</u> 3, then no constraints.	No relaxation of experiment	--	--	--

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Months	Present Standards	Target	Target Year Type	flex ops triggers (in order of application)	E/I & Export Restrictions	QWEST	X2	VAMP	DCC& Hood	HOR	Habitat
Jul-Sep		<u>Restrictions</u> for delta smelt young, striped bass young, and salmon smolts, (they show at export facilities in most summers under a wide range of exports. Salvage events are often associated with declining outflow and QWEST as system operations come under control)	All year types.	<ol style="list-style-type: none"> <li>1. presence of significant portion of delta smelt population in central and south Delta (winter adults or spring young).</li> <li>2. Under rapidly falling QWEST or QWEST below 1000cfs.</li> <li>3. presence of delta smelt in salvage above 500 individuals per day (at either facility)</li> <li>4. Salmon smolt salvage exceeds 1000 per day at either facility.</li> <li>5. Striped bass salvage exceeds 10,000 per day at either facility.</li> </ol>	<p>If 1 or 2, then limit exports &lt;8,000 cfs.</p> <p>If 3 or 4 or 5, then limit exports &lt;6,000 cfs.</p>	<p>If 1, then maintain at -1,000 or higher; and limit change to 1,000 cfs per week</p> <p>If 1 and 2, then limit to &gt;500cfs</p> <p>If 3, then limit to &gt;1,000 cfs</p>	If 1 and 3, then maintain X2 at least as far downstream as Chipps Island.	NA	Open as needed to satisfy QWEST requirements	If 1 and 2, then keep open	If 1, 2, and 3, then flood additional habitat

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		<p><u>Relaxations</u> on exports for the purpose of improving water supply</p>	<p>All year types.</p>	<p>1. delta inflows exceed 50K cfs 2. Delta inflows are steady or rising and exceed 20,000 cfs. 3. 5 day running average of smelt salvage is below 100 individuals per day and salmon and striped bass salvage is below 1000 per day, and monitoring indicates a significant portion of the delta smelt population is not in the Central or South Delta.</p>	<p>No export constraints under 1 or 2, except above restrictions apply.  If 3, then only above restrictions apply.</p>	<p>Nothing to relax.</p>	<p>If 1, or 2, and 3, then no constraints.</p>	<p>No relaxation of experiment</p>	--	--	--
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Months	Present Standards	Target	Target Year Type	flex ops triggers (in order of application)	E/I & Export Restrictions	QWEST	X2	VAMP	DCC& Hood	HOR	Habitat
Oct-Dec		<u>Restrictions</u> for fall migrant salmon smolts and striped bass juveniles, both of which occur sporadically in large numbers in the historical record. Salvage events are often associated with declining or low outflow and QWEST. Note: constraint for latter half of Dec is same as Jan-Mar, as salmon fry may be abundant.	All year types.	1. Under rapidly falling QWEST or QWEST below 1000cfs. 2. presence of delta smelt in salvage above 500 individuals per day (at either facility) 3. Salmon smolt salvage exceeds 1000 per day at either facility. 4. Striped bass salvage exceeds 10,000 per day at either facility.	If 1, then limit exports to <6,000 cfs.  If 2 or 3 or 4, then limit exports <4,000 cfs.	None	No change.	NA	--	--	--
		<u>Relaxations</u> on exports for the purpose of improving water supply	All year types.	1. Delta inflows are steady or rising and exceed 20,000 cfs. 2. 5 day running average of smelt salvage is below 10 individuals per day and monitoring indicates a significant portion of the population is not in the Central or South Delta.	If 1 and 2, then no export constraints.	Nothing to relax	If 1 and 2, then no constraints.	NA	--	--	--

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