

Impact of BDCP July 27, 2009 Draft on the Calif. Salmon industry

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SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
1 Operate south delta diversions to maintain Old and Middle River flows during the near term (Before Canal Completion)	If salmon are to be recovered, exports will clearly have to be regulated and reduced at certain times. The current BDCP sets no criteria or operating plan for this to happen. The operations page is blank. This conservation action is therefore only a concept and has no valid basis for adoption. It is incompatible with increased exports which are included in the plan.	Starts now for 10-15 Years	Dwr \$	None Specified
BDCP# WOCMN12 PAGE 3-56				
2 Operate the cross channel gates during the near term for environmental benefits.	Closure of the cross channel gates at critical times is a key element in recovering salmon. This proposal has no specifics on when the gates would be closed. It therefore contains nothing but a concept. The salmon industry supports the NMFS biological opinion gate criteria for listed species but additional closures are needed for fall run smolts and Mokelumne adults. Gate closures will require cuts in exports. Fall-run analysis needs to be added to this analysis and all conservation proposals to account for a potential future listing of this fish.	Starts now for 10-15 years	Dwr \$	Unclear
BDCP# WOCMN5 PAGE 3-58				
3 Maintain sufficient Rio Vista Flows for environmental benefits in the near term.	Unknown Salmon Benefit	Starts now for 10-15 Years	Dwr \$	Implementing Entity ?
BDCP# WOCMN6 PAGE 3-59				
4 Cease Using Montezuma Salinity Control Gate for near term for environmental benefits.	May Be Of Assistance To salmon by improving freshwater flow past Chipps Island.	Starts now for 10-15 Years	Dwr \$	Implementing Entity ?
BDCP# QWOCMN1 PAGE 3-63				
5 Maintain sufficient Delta outflow during the near term for environmental benefits.	The Delta outflow of fresh water is very important to salmon recovery. However, it must be combined with inflow to be meaningful. A critical minimum level of inflow and outflow must be achieved in the estuary if salmon are to survive and recover. This conservation action by itself is not meaningful plus no specific operational criteria are included in the BDCP. It is currently only an attractive sounding idea.	Starts now for 10-15 Years	Dwr \$	Implementing Entity ?
BDCP# WOCMN9 PAGE 3-61				

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	SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
6	Maintain in-delta Ag and Industrial water quality requirements (West Delta salinity) in the near term.	Improved Salinity Is Important To Salmon Rearing. This project is only feasible with increased Delta inflow and outflow. BDCP is silent on how this would be accomplished. Salinity is only one of the water quality problems that needs to be addressed for salmon and other fish to survive. The Water Quality Control Board should address all of these including pollution and run off.	Starts now for 10-15 Years	Dwr \$	Unspecified
	BDCP# WOCMN14	PAGE 3-62			
7	Two Gates Installation at Old River to reduce Delta Smelt transport.	No Salmon Benefit. The benefits for Delta Smelt need to be studied with the rational included in the BDCP.	Starts now for 10-15 Years	No Estimate	Not Specified
	BDCP# WOCMN8	PAGE 3-60			
8	Determine if Ammonia and Ammonium have adverse impacts on covered species.	Ammonia selenium and other Delta pollutants have a serious negative impact on salmon. The BCDC does not have the authority for the cleanup but the priority for cleaner Delta water is high. The Water Quality Control Board needs to address this problem.	Unknown	Unknown	Implementing Entity ?
	BDCP# OSCM1	PAGE 3-121			
9	Construct new water diversion facility (peripheral canal) with 15,000 CFS Capacity and preferentially operate while maintaining bypass flows.	The salmon industry is very concerned about this proposal. It is being proposed without any analysis of its impact on salmon and without operating parameters listed that would guarantee fish protections. Before it is approved a complete analysis should be performed and approved by the fish agencies and confirmed with pier reviews.	Up to 15 years to install	Unspecified	DWR
	BDCP# WOCML1	PAGE 3-64			
10	Modify the Fremont Weir and Yolo Bypass for higher inundation after canal completion	This proposal will provide substantial benefits for salmon. This project should be initiated as soon as possible as called for in the NMFS Biological Opinion. It should not wait 10 to 15 years.	Starts 10 to 15 years in future	Unknown	Unspecified
	BDCP# WOCML2	PAGE 3-80			

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SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
11 Operate the delta cross channel gates for environmental benefits after canal completion	Gate closures during certain periods are needed now to prevent extinction's. They should continue in the future with or without the canal.	Starts 10 to 15 years in future	Dwr \$	Unspecified
BDCP# WOCML5 PAGE 3-84				
12 Maintain Sufficient Rio Vista flows after canal completion for environmental benefits.	Impact on salmon is unknown	Starts 10 to 15 years in future	Dwr \$	Implementing Entity ?
BDCP# WOCML6 PAGE 3-84				
13 Maintain sufficient Delta outflow After Canal Completion	The Delta outflow of fresh water is very important to salmon recovery. However, it must be combined with inflow to be meaningful. A critical minimum level of inflow and outflow must be achieved in the estuary if salmon are to survive and recover. This conservation action by itself is not meaningful.	Starts 10 to 15 years in future	Dwr \$	Implementing Entity ?
BDCP# WOCML9 PAGE 3-85				
14 Operate dual conveyance facilities to maintain water quality and protect covered species.	No basis or analysis of this operating mode has been included in the BDCP. Project should not be approved without full analysis and pier review. Fish improvements are unlikely if more water withdrawals are proposed.	Starts 10 to 15 years in future	Dwr \$	Implementing Entity ?
BDCP# WOCML# PAGE 3-85				
15 Maintain in-delta Ag and Industrial water quality requirements (Salinity) during the long term.	Would be beneficial to future salmon rearing. Results without decreased overall pumping are doubtful. BDCP plan has no quantification or project operating criteria on how this would be accomplished. Salinity is only one of the water quality problems that needs to be addressed for salmon and other fish to survive. The Water Quality Control Board should address all of these including pollution and run off.	Starts 10 to 15 years in future	Dwr \$	Unspecified
BDCP# WOCML14 PAGE 3-86				

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SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
16 Operate the Montezuma Slough Salinity Control (ceasing operation) for long term environmental benefits	Has future positive impact on salmon. May improve reshwater low past Chipps Island.	Starts 10 to 15 years in future	Dwr \$	Unspecified
BDCP# QWOCML1 PAGE 3-86				
17 Restore 65,000 acres of freshwater and brackish tidal marsh withinn restoration opportunity areas.	Has significant potential future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 40 years	Unknown	Implemtng Entity
BDCP# HRCM16 PAGE 3-94				
18 Restore 1,500 acres of freshwater tidal marsh In Cosumn/Mokelumne ROA	Has significant Future Salmon Benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 To 20 years	Unknown	Implementing Entity ?
BDCP# HRCM5 PAGE 3-98				
19 Restore at least 2,100 acres of freshwater tidal marsh In West Delta ROA	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 20 years	Unknown	Implementing Entity
BDCP# HRCM6 PAGE 3-98				
20 Restore 5,000 acres of tidal marsh In South Delta ROA	Unclear on salmon future benefits because of location.	No results for 10 to 15 years	Unknown	Implementing Entity
BDCP# HRCM7 PAGE 3-98				

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SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
21 Restore at least 1,400 acres of freshwater tidal marsh In East Delta ROA	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 15 years	Unknown	Implementing Entity ?
BDCP# HRCM8 PAGE 3-99				
22 Restore at least 7,000 acres of freshwater tidal marsh In Suisan Marsh ROA	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 15 years	Unknown	Implementing Entity
BDCP# HRCM9 PAGE 3-105				
23 Enhance 20 miles Of Delta channel banks with riparian habitat	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 15 years	Unknown	BDCP ?
BDCP# HRCM## PAGE 3-107				
24 Enhance channel margin habitats along non project delta levees.	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 15 years	Unknown	Implementing Entity ?
BDCP# HRCM15 PAGE 3-109				
25 Enhance channel margin habitats in Steamboat and Sutter Sloughs.	Highly beneficial to salmon rearing success. Up to 80% of salmon use this corridor. This project should be accelerated and not have to wait up to 15 years.	No results for 10 to 15 years	Unknown	Implementing Entity
BDCP# HRCM12 PAGE 3-109				

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SHORT DESCRIPTION	SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
26 Enhance channel margin habitats along the San Joaquin River between Vernalis and Mossdale.	Could be beneficial to future salmon rearing.	No results for 10 to 15 years	Unknown	Implementing Entity ?
BDCP# HRCM13 PAGE 3-109				
27 Restore at least 5,000 acres of riparian Forrest and Scrub	Very little salmon Impact. More for birds, insects and small mammals	No results for 10 to 40 years	Unknown	Implementing Entity
BDCP# HCRM11/14 PAGE 3-112				
28 Restore 10,000 acres of seasonally inundated floodplain habitat	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 20 years	Unknown	Unspecified
BDCP# HRCM1/2 PAGE 3-114				
29 Restore Seasonally inundated floodplain along the San Joaquin downstream of Vernalis.	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No results for 10 to 20 years	Unknown	Implementing Entity
BDCP# HRCM1/2 PAGE 3-117				
30 Restore Seasonally inundated floodplain along Old & Middle Rivers.	Has significant future salmon benefits in food production and rearing but the BDCP plan includes no quantification of benefits. Each habitat restoration project should be studied by qualified biologists so that benefits can be included and project priorities can be set to identify those that should go first.	No Results for 10 To 20 Years	Unknown	Implementing Entity
BDCP# HRCM3 PAGE 3-117				

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SHORT DESCRIPTION		SALMON INDUSTRY COMMENTS	TIMING	COST	MANAGER
31	Assess feasibility of a new flood bypass East of deep water ship channel to restore seasonally inundated floodplain habitat.	Some salmon benefits but would have to be studied in detail.	No results for 10 to 15 years	Unknown	Implementing Entity ?
BDCP# HRCM17		PAGE 3-117			
32	Reduce SWP And CVP wet year diversions after canal completion to maintain Old and Middle River flows.	This is highly speculative because it is 15 years in the future and the stated intent of the BDCP is to increase exports. No supporting data is presented in BDCP to support this statement. Dry years would have to be included for any salmon benefit.	Starts 15 years in future	Dwr \$	Unspecified
BDCP# WOCML12		PAGE 3-80			