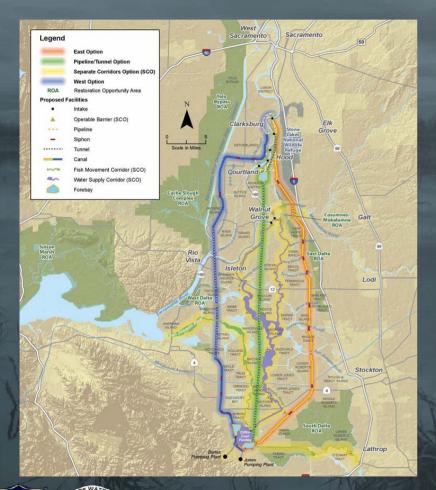
Bay Delta Conservation Plan Conservation Measure 2

SRCAF Presentation 06/07/2011 Jason Roberts California Department of Fish and Game jdroberts@dfg.ca.gov - (916) 445-0970



Bay Delta Conservation Plan Overview



 The plan is designed to provide for the conservation of species and to restore water supplies

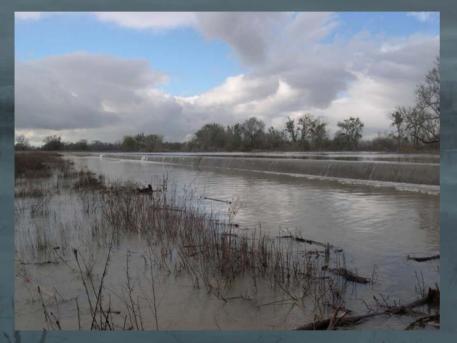
 New water conveyance facilities in the north Delta

Conservation Measure 2

 Requires the preparation and implementation of a Yolo Bypass Fishery Enhancement Plan (YBFEP)



Yolo Bypass Fishery Enhancement Plan



- Improve upstream and downstream fish passage
- Reduce straying and stranding of native fish
- Increase availability of floodplain habitat for fish rearing and spawning
- Investigate the potential for food web export from the Yolo Bypass to the Delta

Proposed Actions to Reduce Migratory Delays and Loss

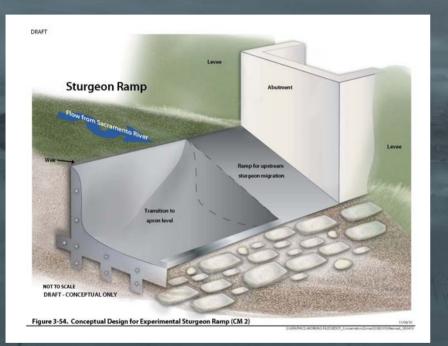
- Fremont Weir fish ladder replacement
- Experimental sturgeon ramps
- Deep fish passage gates and channel
- Stilling basin modifications
- Sacramento Weir improvements
- Tule Canal/Toe Drain and Libson Weir improvements
- Lower Putah Creek improvements

Replace Fremont Weir Denil Fish Ladder



- Allow for effective passage from the Yolo Bypass to Sacramento River
- The facility will incorporate monitoring technologies

Experimental Sturgeon Ramps



Experimental ramps to allow for the effective passage of adult sturgeon The facility will incorporate monitoring technologies

Deep Fish Passage Gates and Channel

- Deep fish passage notch will be cut through a small section of Fremont Weir to an elevation of 11.5 feet
- Notch will be fitted with operable "fish passage gates"
- A fish passage channel will be excavated to convey water from the Sacramento River to the new fish passage gates



Stilling Basin Modifications



 Modifications will be made to the existing stilling basin to ensure that the basin drains sufficiently into the deep fish passage channel

Tule Canal/Toe Drain Improvements



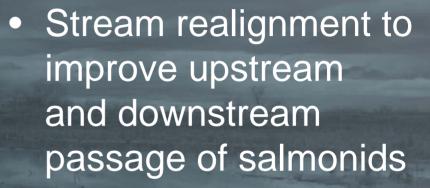
 Physical modifications to passage impediments such as road crossings, agricultural impoundments, existing berms, levees, and water control structures

Lisbon Weir Improvements



 Lisbon Weir will be redesigned to improve fish passage while maintaining or improving water capture efficiency

Lower Putah Creek Realignment



 Floodplain restoration to provide benefits for multiple species on existing public lands

Proposed Actions to Increase Seasonal Floodplain Habitat



- Fremont Weir modification
- Yolo Bypass modification
- Westside option

Fremont Weir Modification



 Lower a section of the Fremont Weir to 17.5 feet

 Fit section with operable gates that will allow for controlled flow into the Yolo Bypass when the Sacramento River stage exceeds 17.5 feet

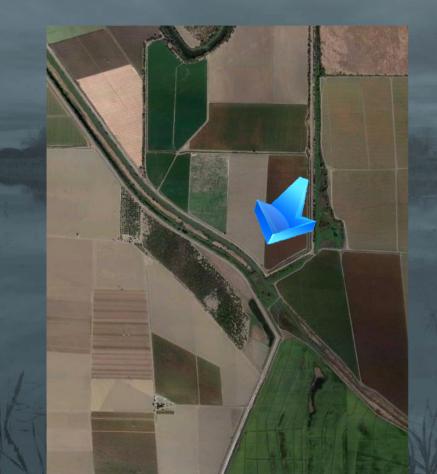
Yolo Bypass Modification



 Modify sections of the bypass to allow water to inundate in certain areas of the Yolo Bypass to maximize biological benefits and keep water away from other areas to reduce stranding of covered fish species

 Minimize impacts on terrestrial species and other land uses

Westside Option



• The Yolo Bypass **Fishery Enhancement** Plan will include a feasibility study and evaluation of a gated channel to provide flows into the Yolo Bypass along the west side

Opportunities and Constraints of Proposed Inundation

- December inundation benefits listed winter-run salmon but impacts wildlife activities in the Yolo Bypass
- Late spring inundation benefits splittail but impacts agriculture and the Yolo Bypass Wildlife Area
- Increased flow increases inundation area but adversely impacts agriculture



Existing Users

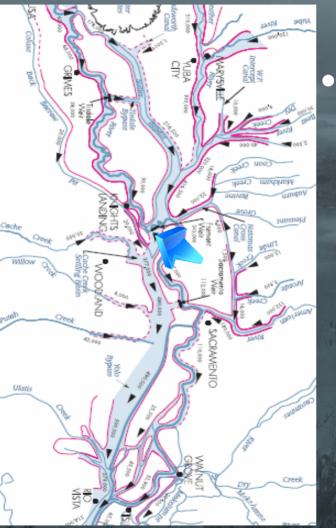


 Any fishery enhancement plan must consider all users of the Yolo Bypass





Flood Management



Integral part of the Sacramento River Flood Control System



Summary

- YBFEP will improve upstream and downstream fish passage
- YBFEP will improve availability of seasonal floodplain habitat for covered species
- YBFEP will take into consideration the current uses of the Yolo Bypass