

FINAL YOLO BYPASS IRWMP PROJECTS

ID	Title	Project Description	Project Proponents	Geographic Description	Project Readiness
Water Quality					
WQ16	Develop Best Management Practices for the Yolo Bypass regarding production and transport of elemental and methyl mercury	<p>Several studies looking at methylmercury are underway in the Yolo Bypass. State Dept of Fish and Game is conducting a monitoring study, UC Davis is looking at bioaccumulation and the USGS is doing a one-year study entitled. "Methylmercury cycling and export from agricultural and natural wetlands in the Yolo Bypass."</p> <p>A proposal for an additional study looking at Methylmercury is underway. In the next five years there will be the need for: 1) Additional funding will be needed in the future for additional studies, to further develop cost effective Best Management Practices to minimize the production and transport of methyl mercury from rice fields and wetlands. 2) Funds to pay for monitoring required by the Delta TMDL once it is adopted.</p>	DFG, USGS, YFB,	Yolo Bypass	<p>USGS study underway.</p> <p>Additional study proposal is being written for consideration. Other projects maybe generated based on proposal results.</p>
Water Supply					
WS22	Colusa Basin Drain Water Supply Project	<p>During many months of the year, water from the Colusa Basin Drain could be diverted for storage and use in Yolo County rather than being discharged to Sacramento River at Knights Landing. In spring months, available water could be stored in a new reservoir for use later in the irrigation season by the YCFCWCD. During late spring through early fall months, a portion of the water in the Drain could be sent down the Ridge Cut into Tule Canal for irrigation use and storage by downstream users. This would provide increased water supply reliability to users, enhanced wildlife habitat, and water quality related benefits to many stakeholders. Implementation funding could potentially be available through a number of sources. Downstream water users in the Bypass could be impacted by reduced water quality conditions.</p>	NCWA, EBMUD, Sacramento County, DU, CUWA, others	Yolo Bypass, Colusa Basin Drain	Project in conceptual form. Inactive at this time
Flood Management					
FM33	Yolo Bypass Sediment Removal <i>NOTE: Title Change</i>	RD 108 and the DWR need additional funding to periodically remove sediment that is restricting the capacity of the Yolo Bypass.	DWR	Yolo Bypass, Sacramento River	Sediment removal is largely completed. No immediate plans to conduct additional work

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FM39	Yolo Bypass 2-D Hydraulic Model	<p>Provide funding to support the following actions:</p> <ol style="list-style-type: none"> 1) Determine which agency will be responsible for maintaining and updating the CBDA funded RMA-2 hydraulic model as Bypass projects are completed. 2) Conduct long term management of the model, 3) Enable project proponents to pay for input of project data to run the model for specific projects. <p>Lack of upkeep on this model will make it obsolete and will prohibit informed future decision-making about Bypass flows, Bypass land and feature design, associated impacts and adjustments, and associated enforcement (if warranted)</p>	USACE, DWR – Rec Board	Yolo Bypass	Model in production. Expected to be complete soon. No long term maintenance budget exists
Aquatic and Riparian Ecosystem Enhancement					
AR ?	<p>Yolo Bypass Conceptual Aquatic Restoration Opportunities</p> <p><i>NOTE: Title Change</i></p>	<p>The purpose of the project is to:</p> <ol style="list-style-type: none"> 1) Improve conditions for native fish species in the Yolo Bypass, and 2) Keep users of the Yolo Bypass whole by maintaining or improving existing conditions. <p>The YBIWG has identified the following potential sequential aquatic enhancement opportunities for further evaluation and discussion with stakeholders:</p> <ul style="list-style-type: none"> ▪ <u>Putah Creek</u> – Lower Putah Creek stream realignment and floodplain restoration for fish passage improvement and multi-species habitat development on existing public lands. ▪ <u>Lisbon Weir</u> – Improve the structure for fish, wildlife and agriculture; reduce maintenance. ▪ <u>Additional multi-species habitat development</u> – Provide for controlled localized seasonal inundation on more frequent intervals; identify areas of opportunity only on: the Wildlife Area; other existing public lands; and private lands where cooperative agreements with willing land owners provide mutual benefits. ▪ <u>Tule Canal connectivity</u> – Identify passage impediments (example: road crossings and impoundments); work with land owners to develop the best options for improving fish passage and ensuring water diversion capability. ▪ <u>Multi-species fish passage structure</u>– Investigate the redesign of the existing fish ladder; evaluate the feasibility of constructing a new fish passage structure, operated to ensure: continued maintenance of flood conveyance capacity; no substantial changes in timing, volume, and/or duration of 	DWR, DFG, USFWS, NMFS	Yolo Bypass from the Fremont Weir to Little Holland Tract	Project ideas in conceptual form

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		<p>flow; and minimal disturbance to existing land use and agricultural practices.</p> <p>Project development will include three steps:</p> <p>Step 1) Present conceptual restoration opportunities Step 2) Seek stakeholder input to guide further actions Step 3) In concert with stakeholders, develop an appropriate restoration plan that maintains or improves conditions in the Yolo Bypass for native fish and bypass users.</p>			
AR41	Yolo Bypass Wildlife Area Ecosystem Restoration Project	<p>Implement the Ecosystem Restoration Elements documented in the Yolo Bypass Wildlife Area Land Management Plan.</p> <p>Actions include: 1) restoration of permanent and seasonal wetlands, uplands and riparian areas. Activities will consist of ground surveys, hydraulic analysis, construction of interior levees, installation of necessary water control structures and earthmoving services necessary to create the microtopography of diverse and manageable wetland ecosystem. 2) control of selected invasive species. 3) encourage agriculture tenants to practice wildlife friendly farming.</p> <p>Aquatic ecosystem restoration projects on the Wildlife Area are described above.</p>	DFG, DU, CWA, WCB, YBF	Yolo Wildlife Area	DFG completing the Wildlife Area Management Plan
AR47	Yolo Bypass Working Group	<p>Provide funding for the Working Group to continue periodic stakeholder meetings. The Working Group serves as the primary means of outreach regarding activities in the Bypass. It is a popular forum for landowners, researchers, special districts, agencies, advocacy groups and others who have a stake in how the Bypass is managed.</p>	YBF	Yolo Bypass	Working Group funded through end of 2007 by DWR (Yolo IRWMP) and DFG (Lower Yolo Bypass Collaborative Process)
Recreation					
R12	Yolo Bypass Wildlife Area public access, outreach, interpretation	<p>Implement the Public Use Element of the Yolo Bypass Wildlife Area Land Management Plan: 1) Construct and operate the Pacific Flyway Center. 2) Build handicapped accessible</p>	DFG, Others	Yolo Wildlife Area	DFG completing the Wildlife Area Management Plan. Recreation projects will require

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	programs.	facilities for hunting and fishing in the Yolo Wildlife Area. 3) Build wildlife viewing facilities at the Yolo Wildlife Area. 4) Bicycle Crossing Project. 5) Interpretive Sign and Auto Route Extension Project. 6) Tule Ranch Unit Facilities Development Project. 7) Yolo Bypass Wildlife Area Book Project.			stakeholder partners to make happen
R13	Deep Water Ship Channel Trail Project	Construct a biking/walking trail from Seaport Blvd. in West Sacramento to the Yolo Wildlife Area. Project can potentially be a part of the proposed Delta Trails effort being lead by DPC.	DPC, Others	Yolo Bypass, Port of Sacramento Deep Water Ship Channel	Project in conceptual form
R31	Davis Wetlands Public Access Improvement Project	Construct bike/ped bridge at mouth of Willow Slough Bypass to connect existing 400 acre Davis Wetlands project to public access network.	City of Davis	Confluence of Willow Slough and Yolo Bypass	Project in conceptual form
R32	Levee Public Access Improvements Project	Plan and implement levee top trail network system connecting Woodland, Yolo Wildlife Area, Davis, and UCD		Cache Creek, Yolo Bypass, Putah Creek	Project in conceptual form
R33	Public Access Trails Along Existing Storm Water Conveyance Channels Project	Construct public access trails along existing storm water canals connecting existing Davis greenbelts to the Yolo Wildlife Area and Willow Slough/Davis Wetlands.	City of Davis, Yolo County	Davis	Project in conceptual form

**YOLO BYPASS IRWMP PROJECTS
NEW IDEAS**

#	Title / Description	Project Proponents	Geographic Description	Project Readiness
1	Project addressing Liberty Island and potential flood impacts (benefits and/or detriments) associated with levee removal	?	Lower Yolo Bypass	Concept. Potentially integrate with Lower Yolo Bypass Collaborative Process.
2	Develop “multi-use” levees that provide habitat and flood protection. Use Bypass as a testing ground.	?	Yolo Bypass	Concept
3	Conduct a full Bypass Bio-Inventory. Expand current inventory of primarily riparian habitats to include all other Bypass habitats. The project would provide a complete inventory of species and populations.	UCD - Department of Wildlife, Fish, and Conservation Biology	Yolo Bypass	Concept. Partially complete (riparian habitats only)
4	Develop a Wildlife Evaluation and Monitoring Program. Using the information from the Bio-Inventory, provide a monitoring program that provides benefit to landowners by knowing what is on their property. Such information minimizes speculation by regulators and researchers, and allows landowners to make best business decisions for their land based on existing conditions. Could be valuable tool for future “Safe Harbor” discussions between landowners and regulators	UCD - Department of Wildlife, Fish, and Conservation Biology	Yolo Bypass	Concept
5	Build a cross-Bypass, at-grade bike trail linking Davis and West Sacramento. Develop options to bridge existing Tule Canal / Toe Drain. Develop options to account for flood damages, and address user safety concerns and waste/refuse management. Could be linked to Delta Trails project. Also addressed in Recreation project – R12 (Yolo Wildlife Area)	Davis Bike Club, City of Davis, City of West Sacramento, Delta Protection Commission.	I-80 crossing of Yolo Bypass	Concept
6	Yolo Bypass levee and channel improvements to increase flood flow conveyance	Unknown	Yolo Bypass	Concept
7	Expand outreach and involvement of Bypass subsistence anglers, particularly among diverse ethnic cultures not generally accessed through conventional outreach methods	Tulyome, DHS, USGS, YBF, DFG	Yolo Bypass	Concept