

REPORT OF ACTIVITIES OF THE DEPARTMENT OF WATER RESOURCES

by

George T. Qualley, Chief
Division of Flood Management
Department of Water Resources
The Resources Agency
State of California*

WATER CONDITIONS

As of July 1, Water Year 2008 statewide hydrologic conditions were as follows: precipitation, 85 percent of average to date; runoff, 60 percent of average to date; and reservoir storage, 75 percent of average for the date. As of June 10, the date of the last forecast this water year, the projected median April-July runoff for the water supply basins ranged from 78 percent (Kings River) to 47 percent (Tule River). Sacramento River unimpaired runoff observed through June 30, 2008 was about 9.3 million acre-feet (MAF), which is about 54 percent of average. (On June 30, 2007, the observed Sacramento River unimpaired runoff through that date was about 9.2 MAF or about 54 percent of average.)

Spring of 2008 has turned out to be extremely dry. The Water Year 2008, Northern Sierra 8-Station Precipitation Index seasonal total of 34.8 inches is now less than last year's seasonal total of 36.0 inches at this time. March and April 2008 were each the sixth driest of those months on record. For the 8-Stations, the Water Year 2008 combined March through June total precipitation is only 3.4 inches, the driest on record (since 1921). The Water Year 2008, 8-Station Index, October through June total of 34.8 inches is the 18th driest year out of 88 years of record. The 2-year combined total precipitation for Water Years 2007 (37.2 inches) and 2008 is 72.0 inches, the 9th driest 2-year period on record.

January and early February brought significant amounts of precipitation to California, including heavy snowfall in the mountains. California's large water supply reservoirs received some inflow from these storms; however, the amounts were muted because much of the precipitation fell as snow. Because precipitation was significantly below average last year, dry hydrologic conditions still prevail. Storage in most of the major water supply reservoirs is still well below average. The Sacramento and San Joaquin Valley Water Year Type indexes are both forecasted to be "Critical."

Selected Cities Precipitation Accumulation as of 07/01/2008 (National Weather Service Water Year: July through June)					
City	Jul 1 to Date 2007 - 2008 (in inches)	% Avg	Jul 1 to Date 2006 - 2007 (in inches)	% Avg	% Avg Jul 1 to Jun 30 2007 - 2008
Eureka	34.19	90	35.48	93	89
Redding	24.02	72	22.73	68	71
Sacramento	13.71	76	10.88	61	76
San Francisco	15.55	77	11.63	58	77
Fresno	8.40	75	6.03	54	74
Bakersfield	2.38	37	3.06	47	36
Los Angeles	13.53	89	3.21	21	89
San Diego	7.25	67	3.85	36	67

Key Reservoir Storage (1,000 AF) as of 07/01/2008								
Reservoir	River	Storage	Avg Storage	% Average	Capacity	% Capacity	Flood Control Encroachment	Total Space Available
Trinity Lake	Trinity	1,563	2,129	73	2,448	64	---	885
Shasta Lake	Sacramento	2,418	3,735	65	4,552	53	-2,134	2,134
Lake Oroville	Feather	1,530	2,948	52	3,538	43	-2,008	2,008
New Bullards Bar Res	Yuba	721	829	87	966	75	-245	245
Folsom Lake	American	478	831	58	977	49	-499	499
New Melones Res	Stanislaus	1,288	1,517	85	2,420	53	-1,132	1,132
Don Pedro Res	Tuolumne	1,351	1,599	84	2,030	67	-679	679
Lake McClure	Merced	459	732	63	1,025	45	-566	566
Millerton Lake	San Joaquin	337	416	81	520	65	-183	183
Pine Flat Res	Kings	421	698	60	1,000	42	-525	579
Isabella	Kern	253	308	82	568	45	-250	315
San Luis Res	(Offstream)	680	1,362	50	2,039	33	---	1,359

The latest National Weather Service Climate Prediction Center (CPC) long-range weather outlook for July 2008, issued June 30, 2008, is forecasting average precipitation for all of California.

STATEWIDE FLOOD PLANNING OFFICE

Central Valley Flood Protection Plan Activities

Public Outreach – An overview of the Central Valley Flood Protection Act of 2008 (SB 5) was presented at the four FloodSAFE Stakeholder meetings held in the Central Valley (Sacramento – June 9, Clovis – June 19, Chico – June 25, and Stockton – June 26) as part of the rollout of the draft FloodSAFE Strategic Plan.

U.S. Army Corps Engineers (Corps) – Coordination meetings with the Corps are underway to define federal participation in development of the Central Valley Flood Protection Plan and prepare a project management plan that identifies federal milestones and actions for preparation of feasibility-level planning document.

FLOOD PROJECT AND INTEGRITY AND INSPECTION BRANCH

Spring 2008 inspection reports have been completed and mailed to the local maintaining agencies. We will begin performing our annual inspections of flood control structures and project channels in July and our erosion surveys in late July or early August. Encroachment permit inspections, including the Early Implementation Project at TRLIA/RD 784 are continuing.

FLOOD PROJECT MODIFICATIONS & PERMITS BRANCH

Early Implementation Program

Three Rivers Levee Improvement Authority (TRLIA) now has all three segments of the Feather River Levee Improvement Project under construction. Staff has processed approximately \$38 million of invoices to acquire real estate and continue with construction. TRLIA will soon be submitting their second quarterly work plan for review and payment.

Levee District No. 1 of Sutter County (LD1) The funding agreement for LD1 was executed and approved by Department of General Services (DGS) in June 2008. LD1 will submit a quarterly work plan and request for credit in July 2008. Real estate acquisition is still being negotiated with the land owners. The LD1 Board of Directors passed a Resolution of Necessity in May 2008 to start the condemnation of several properties. The DWR Real Estate Division plans to start working on LD1 in August 2008. LD1 is still in negotiations with the Corps regarding environmental concerns. Although construction of the setback levee will not start until April 2009, the District will let bids beginning in August 2008 for utility relocations.

Reclamation District No. 2103 (RD 2103) The funding agreement for RD 2103 was executed and approved by DGS in June, 2008. RD 2103 submitted a draft quarterly work plan the last week of June, with a final to be delivered soon. Bid solicitation began on June 9, bid opening was July 3, and award is planned for July 10. Notice-to-Proceed should be issued July 23, 2008 with construction scheduled for completion in October 2008. Due to permitting delays, erosion sites within the railroad right-of-way may not be repaired until the 2009 construction season. CVFPB Permit No. 18081-Rev BD was issued on June 23, 2008.

Sacramento Area Flood Control Agency (SAFCA) completed the Phase 1 portion of project Reaches 1 and 2 in 2007 for the Natomas Cross Canal (NCC) component of the Natomas Levee Improvement Project. Bids were opened for Phase 1B, Reaches 2 to 3, on June 5, 2008, and the apparent low bid is within budget for the project. Sacramento Area Flood Control Agency (SAFCA) will be submitting the real estate plan within the month of July 2008, and the first round of credit invoices have been submitted and reviewed, and the remaining credit invoices are expected in July 2008. The SAFCA NLIP NCC funding agreement was executed and approved by DGS in June 2008.

Project funding for the four Early Implementation Program projects are:

- Three Rivers Levee Improvement Authority – Total cost \$201.3 million, estimated maximum State cost share: \$138.5 million.
- Levee District No. 1 of Sutter County: Lower Feather River Setback Levee at Star Bend – Total cost: \$14.7 million, estimated maximum State cost share: \$7.35 million.
- Reclamation District No. 2103: Bear River North Levee Rehabilitation Project – Total cost: \$14.7 million, estimated maximum State cost share: \$7.35 million.
- Sacramento Area Flood Control Agency: Natomas Levee Improvement Program (NLIP) Early Start Program – Total NLIP cost \$227 million; total cost of Natomas Cross Canal South Levee element of NLIP: \$73.4 million; estimated maximum State cost share: \$49 million.

Local Levee Urgent Repair Program Local Levee Evaluation Program

In addition to the Early Implementation Projects, the Branch is implementing these two programs for the non-federal levees. These are Statewide competitive programs (excluding the Sacramento/San Joaquin Delta, which is covered by other programs) to provide state cost share funding to local agencies for projects to evaluate and make urgent repairs to non-federal levees, especially those at risk of FEMA decertification.

Staff received 21 grant applications. Six applications were submitted for the Local Levee Urgent Repair Program totaling \$18,535,000 of the \$40 million available. Fifteen applications were submitted for the Local Levee Evaluation Program totaling \$3,688,000 of the \$20 million available.

Staff is now reviewing the applications for program eligibility and will convene technical reviews of each proposed project.

STATEWIDE GRANTS BRANCH

Assembly Bill (AB) 1147 Draft Regulations

A second presentation is scheduled for the Board's July meeting on Draft AB 1147 Implementation Regulations. The public comment period on the Draft AB 1147 Regulations closes with a public hearing on July 29, 2008. The regulations apply to federal projects authorized by the State after January 1, 2002 and affect the State cost share of those projects.

Flood Protection Corridor Grants

Proposals were evaluated and ranked, and projects selected to allocate \$24 million in Proposition 84 Flood Protection Corridor Grants. Selections were based on the following criteria: non structural flood risk reduction, ecosystem restoration, agricultural land conservation, and other miscellaneous benefits. The projects are located statewide, with several located in the Central Valley. The Corridor Grants section is currently in the process of issuing funding agreements and implementing the projects.

In June, a public meeting was conducted on the proposed acquisition of Knagg's Ranch, a Proposition 84 Flood Protection Corridor Grant project.

MAINTENANCE SUPPORT BRANCH

Wadsworth Canal Slurry Wall Construction

Construction of a 5,000-foot long slurry wall was completed along the south levee of the Wadsworth Canal where the canal enters the Sutter bypass. The depth of slurry wall varied from 40 to 60 feet deep with a slurry trench width of 36 inches. This project is the last remaining repair to be completed under the 1997 Cost-Shared Public Law 84-99 (PL84-99) Levee Rehabilitation Program. During construction, a weak section of the levee fractured due to the hydrostatic pressure of the slurry. This section has been repaired and the contractor is expected to complete all work and demobilize from the site by the end of July 2008. Some issues related to contractor activities on the property owner's site arose at the beginning of construction, and have yet to be completely resolved. Sutter Maintenance Yard staff will monitor the negotiations with the property owner and do what they can to insure that the property owner's concerns have been addressed.

Sutter Bypass Vegetation Reduction

Crews from the Sutter Maintenance Yard and the US Fish and Wildlife Service have made significant progress in this year's vegetation control program for the Sutter Bypass, including the Sutter Wildlife Refuge. As of the end of June 2008, vegetation control in the Sutter Bypass completed by the Sutter Maintenance Yard crews included 2 acres of spraying, 3 acres of clearing (using California Department of Forestry hand crews), 70 acres of discing and 15 acres of dozing. By November, Sutter Maintenance Yard crews are expected to complete an additional 10 acres of clearing (using California Department of Forestry hand crews), 130 acres of discing and 12 acres of dozing. US Fish and Wildlife Service crews and contractors have begun clearing excessive vegetation on 28 acres of the north end of the Sutter Wildlife Refuge (the "Old Growth Area").

FLOOD OPERATIONS BRANCH

Flood Operations Center (FOC) Section

Staff Changes: The Flood Operations Center is in the process of hiring new staff to replace Gary Lemon and Jennifer Allen. Prior to the flood season the FOC should have two new engineers and one research analyst.

The FOC has started to prepare for the 2008/09 Flood Season with the following tasks:

- Directory of Flood Officials: Update requests to local, state and federal agencies were sent the first week of June. Currently, the FOC is awaiting and gathering update information. The changes will be incorporated into the new directory and sent to the printers mid August.
- Emergency Contact Cards: FOC staff are making contacts and updating the emergency contact card for the 2008/09 Flood Season.
- County OES Coordination Meetings: The FOC has scheduled face to face meetings with the 16 county OES offices. The intention of these meetings is to introduce FOC staff, update the County OES offices with the most recent contact information and review FOC operations.
- The FOC is currently working closely with the USACE to prepare and schedule four to five preseason meetings in Northern California (Yuba City, Sacramento, Stockton, Eureka and a possibility of having a meeting in Napa/Sonoma for non-project levees) and three meetings in Southern California (Riverside/San Bernardino, San Diego, Ventura/LA).

Bulletin 69-97: A draft copy of Bulletin 69-97 is complete and is currently in review. Internally, the FOC goal is to have the review and change process complete by the end of August with the final report published before the end of the year.

AB 156: FOC staff has drafted a fact sheet for the AB 156 which requires that local agencies responsible for the operation and maintenance of a project levee that protects an urban area in which more than 1000 approve and adopt a safety plan within 2-years. The FOC will work closely with Local Maintaining Agency Assessment Section to develop a model safety plan and inform local agencies of the AB 156 requirements.

Emergency Flood Response and Emergency Plan Pilot Projects: The FOC is currently working with GEI Consulting and David Ford Consulting Engineers with the development of three emergency response plans for areas with: alluvial fan flooding, local flooding or creek flooding, deep floodplains. Project areas will be selected by the first week in August.

Jones Tract 2004 Closure Site: The FOC was notified of seepage through the 2004 closure site. The FOC monitored and communicated with RD 2039, USACE and department personnel throughout the site evaluations. The FOC sent out daily executive updates up to June 30th. The Department is working closely with the RD to evaluate short term and long term recommendations.

2008 Fires Volunteer List: At the request of Sonny Fong, the FOC sent out an e-mail to Department supervisors requesting a list of volunteers to staff Burn Area Emergency Rehabilitation Teams if requested by the state OES, the Resources Agency and/or CALFIRE. A list was put together and sent to the CALFIRE contact on July 3rd. The list will be updated regularly and maintained by the FOC. It is anticipated the Department staff will be asked to support the watershed recovery efforts within the next few weeks.

Decision Support Section

Modernization of the Division of Flood Management's web portal: For the past eight weeks, staff have concentrated on transitioning the Division's nine web sites into a cohesive and unified web presence for Flood Management to better communicate the Department's flood control initiatives. The sites in the transition include the existing Division of Flood Management site, State Climatologist site, State Meteorologist site, Snow Surveys site, Delta-Suisun Marsh Office site, Delta Risk Management Strategy site, Flood Protection Corridor Program site, Floodplain Management site, and Flood Control Subventions site. Included in this transition is new content for Floodplain Management Branch's Best Available Maps, Flood Project Integrity and Inspection Branch's Flood Project Inspection Reports, and other Flood Management programs not previously covered by the nine web sites. The new integrated Flood Management site consists of over 6,500 pages and documents and will be part of the DWR Portal at <http://www.water.ca.gov/floodmgmt/>. Staff are currently awaiting launch signal from DWR Executive and DFM management; when the new site launches, the addresses for the nine sites will be re-directed to the new address above.

Modernization of the Flood Operations Center Information System (FOCIS): FOCIS is the State-Federal Flood Operations Center (FOC)'s Information System used for State-mandated tracking of the Department's response to water-related incidents and emergencies. Staff has exported FOCIS Operations data from Domino databases, developed Oracle database schemas, and transferred the data to the California Data Exchange Center (CDEC) servers. Staff is currently working on developing new applications for Incident Reports, Event Reports, Situation Reports, Section Status Reports and enhanced resource management.

Modernization of the FOC Geographic Information System (FOC GIS): FOC GIS is part of the decision support tools used by the Flood Operations Center to respond to water-related incidents and emergencies. Staff continues to compile and build the necessary geospatial datasets needed to comply with GIS standards for emergency response established at the Federal level, and to develop map templates based on Federal emergency response standard operating procedures for GIS. Staff also developed state and county index maps for the Floodplain Management Branch's Best Available Maps portion of the new integrated Flood Management web site.

Modernization of the Flood Operations Center IT Assets: The section is in the process of purchasing needed IT equipment and software for conducting in-house webcasting and for hosting the new suite of FOCIS applications. The section also continues to maintain IT assets for the Flood Operations Center and provide first-level PC support to the Flood Operations Branch.

Delta Emergency Operations Activities

Early Implementation Activities: Transfer facilities have been established at Rio Vista and the Port of Stockton. Each facility has a stockpile of rock (113,156 tons at Rio Vista and 107,505 tons at the Port of Stockton) to initiate emergency response activities for a catastrophic failure of levees in the Delta. A conveyor has been constructed and delivered to be used at the Port of Stockton. The conveyor has been tested during a proof of operation exercise and various staff have participated in setup and operation training.

Interim Delta Emergency Operations Plan Tabletop Exercise: Following the release of the Interim Delta Emergency Operations Plan, a DWR-focused tabletop exercise is being planned for this fall. The exercise is intended to test the effectiveness of new policies and protocols identified in the new plan.

BAY DELTA LEVEES BRANCH

Delta Levees Maintenance Subventions Program

Staff has received 68 applications from reclamation districts for FY 2008-09; the total application amount is about 88 million dollars. Staff will formulate its recommendations for consideration by the Central Valley Flood Protection Board in September.

Board Executive Officer has executed 61 work agreements in FY 2007-08. The total application amount in FY 2007-08 was about 82 million dollars; DWR anticipates reimbursing about 20 million dollars to participating districts.

Staff has been actively working to resolve the following issues:

- Nine of the 64 districts participating in FY 2006-07 reimbursement program have not received Department of Fish and Game (DFG) approval for Assembly Bill (AB) 360 requirement of “no net loss of habitat”; therefore no payment has been made. Staff has been working with the districts and DFG to resolve the outstanding issues. Some of the issues related to the nine districts are pending on resolving the prior year mitigation plans.
- Seven of the 59 districts participating in FY 2005-06 reimbursement program have not received DFG approval for AB 360 requirement of “no net loss of habitat”; therefore, no payment has been made. Staff has been working with the districts and DFG to resolve the outstanding issues. Some of the issues related to the nine districts are pending on resolving the prior year mitigation plans. Staff has confidence that districts, DFG and DWR collectively are able to resolve all of the issues.

Two of the 58 districts participating in FY 2004-05 reimbursement program have not received DFG approval for AB 360 requirement of “no net loss of habitat”; therefore no payment has been made. Staff has been working with the districts and DFG to resolve the outstanding issues. All three districts have submitted plans for review by DWR and DFG. We anticipate these issues to be resolved very soon.

FLOODPLAIN MANAGEMENT BRANCH

Department of Water Resources
California Building Code Standards

Senate Bill (SB) 5 (signed Oct. 10, 2007) requires DWR to propose updated requirements to the California Building Standards Code to sufficiently reduce the risk of flood damage and to protect life, and safety and the construction for areas protected by the facilities of the Central Valley Flood Protection Plan where flood levels are anticipated to exceed three feet for the 200-year flood event.

DWR shall submit the proposal to the California Building Standards Commission (BSC) on or before January 1, 2009 after consultation with the Central Valley Flood Protection Board, the Division of the State Architect and the Office of the State Fire Marshal. The presentation to the CVFP Board will focus on project goals, challenges, current status and proposed Board staff involvement.

Best Available Flood Maps

As part of the requirements of SB 5, the Floodplain Management Branch (FPM) mailed out on July 1, 2008 copies of the “best available maps” CDs and Map books to 32 counties and 91 cities within the drainage of the Sacramento and San Joaquin River Basins.

The FPM Branch has conducted four teleconference workshops related to the distribution of the Best Available Maps. These maps are considered preliminary and advisory, and the cities and counties have been asked to provide technical comments within 30 days of receipt of the map books and CDs.

LEEVE EVALUATIONS BRANCH

The Levee Evaluations Branch was created to perform geotechnical levee evaluations on about 350 miles of urban levee. An urban levee is defined as protecting at least 10,000 people. The geotechnical levee evaluations will focus on the urban project levees in geographic areas of Reclamation District (RD) 17, RD 404, Natomas, West Sacramento, Marysville, Woodland, Davis, Stockton, MA9, American River, Sacramento, the Sutter Basin, and RD 784. This program is in the process of expanding to other areas within the Sacramento and San Joaquin Flood Control Projects with the Bond funding.

The purpose of these evaluations is to assist in developing a levee certification program based on geotechnical data, provide consistent formats for data (and associated data exchange), and provide an evaluation of the levee system based on geotechnical data. This evaluation will be conducted with the goal of providing 200-year level of protection in urban areas and the design profile level of protection in rural areas using the U.S. Army Corps of Engineers (Corps) underseepage criteria.

General

1. The Levee Evaluations Branch continues to work closely with RD 17, Natomas (SAFCA and RD 1000), Three Rivers, LD 1, and others within the Department and the Corps to review issues concerning early implementation projects.
2. Weekly coordination meetings with the USACE continue so that subsurface explorations plans are approved in advance of work and efforts are not duplicated.
3. DWR expects to execute task orders for the geotechnical evaluation of urban non-project levees in the greater Stockton area in early July 2008.
4. The ninth Independent Consulting Board Meeting concerning levee evaluations was held on June 17-18, 2008.
5. All bathymetry data has been delivered to DWR in June 2008.

The work performed in June is broken into three geographic urban levee areas of North, Central, and South is as follows:

North

1. *Sutter Basin*: Final comments from the Draft Phase 1 Geotechnical Evaluation Report (P1GER) QA/QC review have been received from ARUP, an engineering firm, and will be incorporated into an updated version of the P1GER for distribution to local stakeholders in August 2008. USACE (United States Army Corp of Engineers) is still reviewing this report. Additional supplemental explorations are planned for July 2008. Biological clearances have been performed.
2. *Marysville*: Final USACE review comments to the Draft P1GER have been received and will be incorporated into an updated version of the P1GER for distribution to local stakeholders in July 2008. Fifteen additional supplemental explorations will be completed in July 2008.

Central

1. The Supplemental Geotechnical Data Report (SGDR) for West Sacramento is underway and expected to be delivered to DWR towards the end of July 2008.
2. The draft Phase 1 Geotechnical Data Report (P1GDR) for the Sacramento River east bank levees (from the confluence with the American River southward to Freeport) is undergoing an internal QA/QC process and Corps review. The report will then be updated for local stakeholder release and review by the end of July 2008. The P1GER for Sacramento River east bank levees is underway.
3. A draft P1GDR for the Natomas East Main Drainage Canal-West (NEMDC-West) portion of the Natomas levees was delivered to DWR during the month of June. A draft P1GDR for NEMDC-East portion of the Natomas levees was completed and is expected to be delivered to DWR in July. The P1GER for NEMDC-West is underway and is expected to be delivered to DWR in July. Several planning meetings and a design workshop were conducted with the Corps, DWR, SAFCA, and stakeholders regarding the remediation of the levee system in Natomas. Review of the extensive geotechnical information for these remaining areas is underway.
4. Field explorations and piezometer installations that commenced along the American River levees in May were completed in June. There were a relatively limited number of explorations and piezometer installations due to the existence of cutoff walls already constructed along a significant portion of the American River levees.
5. Ground-based geophysics was performed at intermittent locations along the south levee of the Willow Slough Bypass, the west levee of the Yolo Bypass, and the north levee of the South Fork of Putah Creek in the Davis area. A draft P1GDR will be delivered to DWR early in July for review.
6. A draft P1GDR for Woodland will be delivered to DWR early in August 2008 for review.

South

1. Piezometer installation was completed on both the Calaveras River and Bear Creek levees within SJAFCA basin in June 2008. Piezometer development and permeability in-situ testing are underway.
2. The draft P1GDR for SJAFCA was delivered to DWR in late May 2008. This report is undergoing an internal QA/QC process and Corps review. The report is being updated for release to local stakeholders in July 2008.
3. The draft P1GDR for RD 404 was delivered to DWR in late June 2008. This report is undergoing an internal QA/QC process and Corps review. The report will be updated for release to local stakeholders in August 2008.

LEVEE REPAIRS BRANCH

Sacramento River Bank Protection Project (SRBPP)

DWR has met CEQA requirements and arranged necessary State Permits and Right of Way required for construction of eight sites (Sacramento River 49.7, 52.3, 53.5 and 177.8, American River 0.3 and 2.8, Cache Slough 21.8 and Steamboat Slough 16.6). The Corps will open bids on July 15 and 16 and award contracts by the end of this month. Construction on these sites will start in August.

Further design and contract work on seven sites (Sacramento River 16.8, 42.7, 55.2, 57.2, 77.2 and 83.9, and Feather River 28.5) is in progress for the Year 2009 construction by the Corps. Also for next year's construction by DWR, URS Consultants and DWR participated in reconnaissance level field investigations for six sites (Sac 35.4, Lower American 10.0 and 10.6, Cache Creek 2.8 and 3.4, and Feather 7.0). Further work on repair alternatives analysis is in progress.

San Joaquin River Flood Protection Critical Repair Sites

Construction Permits and Right- of- Way requirements for three sites; San Joaquin River Mile 42.3R, Paradise Cut (levee mile 3.8L) and Mormon Slough (levee mile 33.0R), have been completed. DWR has already advertised for construction bids on these three sites and is anticipating starting construction in August.

Public Review period for Environmental Assessment and Negative Declaration for the Lower San Joaquin Levee District Chowchilla Bypass Slurry Wall Project ended on July 11, 2008. A draft Corps/Central valley Flood Protection Board Work Agreement for the Lower San Joaquin Levee District Chowchilla Bypass Repairs is under review and approval by the Board. DWR and the Corps have agreed to a joint solution to seepage and 2006 flood damage repairs. As a part of the work covered by this agreement will include improvements to the Chowchilla Bypass Left Bank to resolve long-term seepage issue, DWR will pay about \$5 million for additional work.

2006 Public Law (PL) 84-99 Rehabilitation Assistance Program

On the basis of non-compliance with the Corps maintenance standards, the Corps has declared 17 sites in RD 150 damaged during the 2006 Flood ineligible for PL84-99 Rehabilitation Assistance Program. Six sites are of critical nature (Order 2) and 11 sites have minor damage (Order 3, 4 and 5). In all, there are 22 Order 2 and 139 Orders 3, 4 and 5 remaining sites to be repaired. The Corps is lead agency for PL84-99 repairs and is moving forward to start repairs on 70 sites. DWR is providing environmental permitting, rights-of-way and borrow materials for these sites.