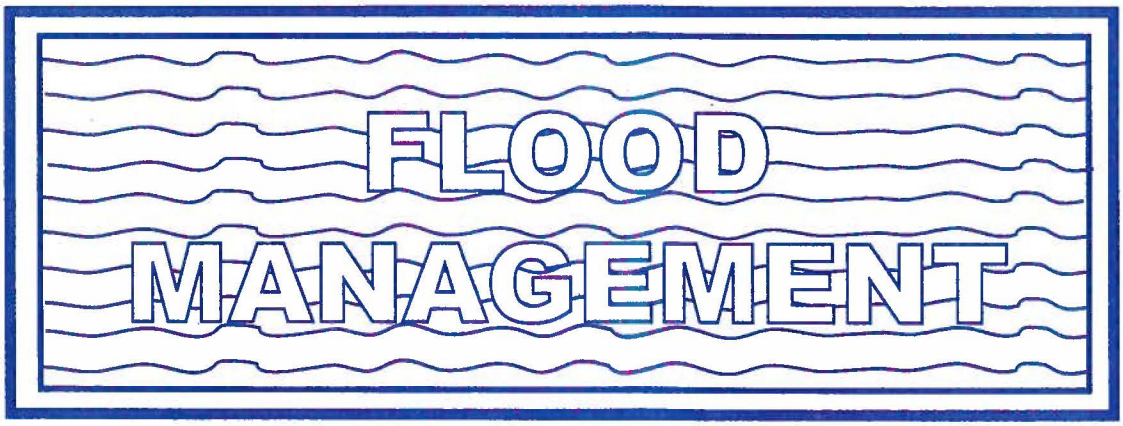
8-2002

Flood Management. 2001 Inspection Report

Department of Water Resources

State of California
The Resources Agency
Department of Water Resources
Division of Flood Management



2001 INSPECTION REPORT
FLOOD CONTROL PROJECT MAINTENANCE REPAIR

AUGUST 2002

Gray Davis
Governor
:e of California

Mary D. Nichols
Secretary for Resources
The Resources Agency

Thomas M. Hannigan
Director
Department of Water Resources

State of California
The Resources Agency
Department of Water Resources
Division of Flood Management

2001 INSPECTION REPORT
OF
THE FLOOD CONTROL PROJECT MAINTENANCE AND REPAIR

PUBLISHED IN AUGUST 2002

Department of Water Resources
Division of Flood Management

Gray Davis	Mary D. Nichols	Thomas M. Hannigan
Governor	Secretary for Resources	Director
State of California	The Resources Agency	Department of Water Resources

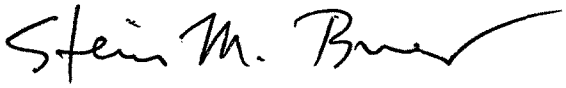
FOREWORD

Each spring and fall since 1947, the Department of Water Resources has inspected and reported on the status of maintenance of flood control levees, channels, and other major works operated under cooperative arrangements between federal, State and local public entities. These flood control facilities are located on the floors of the Sacramento and San Joaquin Valley and in Plumas, Lake, Placer, Modoc, and Solano counties.

The physical and procedural context within which these inspection activities take place is described later in the Introduction. This work is part of the process of assurances given by the State to the federal government that certain flood control facilities constructed by the U.S. Army Corps of Engineers for local flood protection shall be continuously maintained in such a manner and operated at such times and for such periods as may be necessary to obtain the maximum benefits as stated in the "Code of Federal Regulations", Title 33, Chapter II, Part 208, Flood Control Regulations. The superintendent (or manager, engineer, engineer/manager) of each local maintaining agency (including reclamation districts, levee districts, and county flood control districts), or county agency, within the limits of any federal flood control project in the Sacramento and San Joaquin River watersheds, is responsible for maintaining and operating the project works located within the boundaries or jurisdiction of such an agency.

In addition to the State inspections documented in this report, it should be noted that the USACE also performs their own independent "spot" inspections each year as part of the continuing federal interest in the maintenance and operation of the Sacramento and San Joaquin River flood control systems.

The purpose of this report, which is one of a continuing series of reports on the status of maintenance of these facilities, is to summarize and document the results of DWR's 2001 inspections for the information of the USACE, The Reclamation Board, local maintaining agencies, and other interested parties. Prior to the 1975 report, these annual inspection reports were presented in DWR's Bulletin 149 series, "Flood Control Project Maintenance and Repair". Starting with the 1975 inspection report, the information was presented in a Central District report. Since 1981, the information has been presented in a Division of Flood Management report.



Stein M. Buer, Chief
Division of Flood Management

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Gray Davis, Governor
THE RESOURCES AGENCY
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CONTENTS

PAGE

Tables

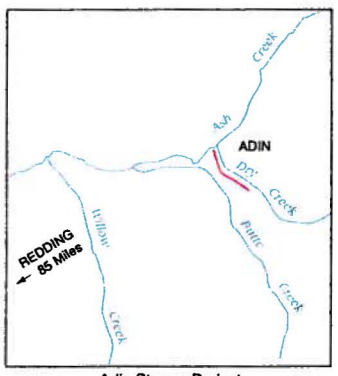
Plates

INTRODUCTION

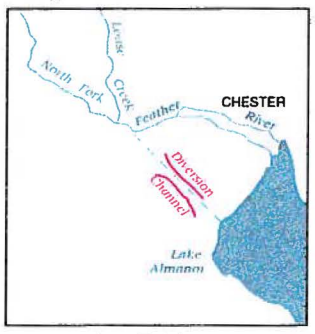
The Sacramento River Flood Control Project was authorized by Congress in 1917, and subsequent supplemental authorizations (e.g. Sacramento River Major and Minor Tributaries, American River Levees, etc.) have added components to the SRFCP over the years. The San Joaquin River Flood Control System consists of a number of separate federally authorized flood control projects, most of which have been built since the 1940's (e.g. Merced and Fresno County Stream Groups, Lower San Joaquin River, federal projects, and State designated floodways on virtually all the Sierra rivers draining into the San Joaquin Valley and the Tulare Lake Basin). The two major river flood control systems have combined totals of approximately 1,600 miles of federal project levees (shown on Plate 1, Page 2), 1,200 miles of designated floodways (148,000 acres), several thousand acres of project channels, and 55 other major flood control works (such as overflow weirs, flood relief structures, outfall gates, and the Sutter Bypass pumping plants).

The federal government, acting through the USACE, designed and constructed many of these federal levees and other flood control works; some then-existing levees were also incorporated into the Sacramento and San Joaquin flood control systems by federal statute. The State generally provides land, easements, and right-of-way when necessary for project construction. An exception to this process is the Lower San Joaquin River Flood Control Project which was designed and constructed to federal standards by the State (substituting physical works for acquisition of more costly flowage easements required for the authorized federal project). Local public entities within both river systems have the responsibility, liability, and duty to maintain and operate the levees and other flood control works on a day-to-day basis in accordance with guidelines provided in the USACE' Standard Operations and Maintenance Manual (and each applicable supplement for individual project units). The only flood control features on which operation and maintenance is <u>not</u> performed by local entities are those SRFCP works charged to DWR under Water Code Section 8361, and those SRFCP levees within maintenance areas that are maintained by DWR, with local beneficiaries paying the costs, under Water Code Section 12878.

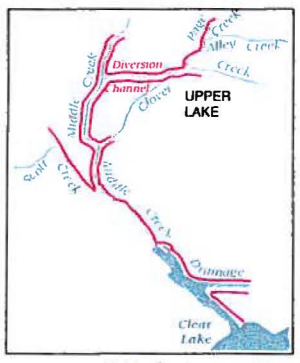
DWR, under the authority of Water Code Sections 8360, 8370 and 8371, inspects the maintenance of SRFCP levees performed by the responsible agencies, and reports to USACE on a regular basis regarding the status of levee maintenance accomplished under the provisions of Title 33, Code of Federal Regulations, Section 208.10. While there are no specific water code provisions directing DWR to inspect and report on maintenance of the San Joaquin River Flood Control System, DWR has performed inspections and provided reports for many years as a matter of practice consistent with Title 33, CFR. The inspections thus verify, for both river systems, that local agencies are performing their legal and statutory responsibilities pursuant to Water Code Sections 12642 and 12657, and are meeting their legal obligations under assurance agreements with the State, to operate and maintain their flood control projects "on any stream flowing into, or in, the Sacramento Valley or the San Joaquin Valley". The State inspects and reports only on the status of maintenance practices and on observable levee conditions resulting from those practices; the State does not conduct field studies to assess the internal structural integrity of the levees or their foundations.



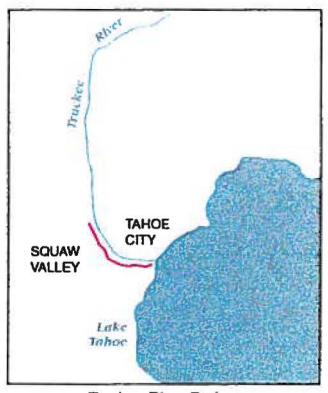
Adin Stream Project
A



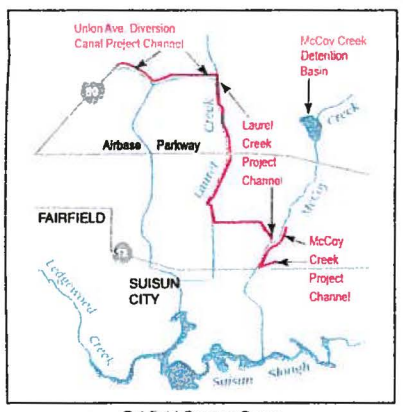
North Fork Feather
River Project
B



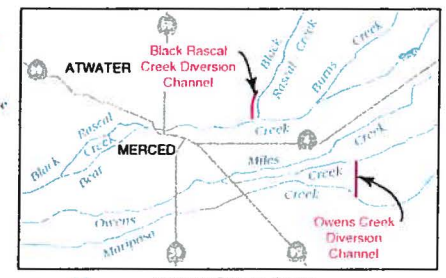
Middle Creek
and Tributaries Project
D



Truckee River Project
C



Fairfield Stream Group
E



Merced Stream Group
G

Kings River
Flood Control Project
F

PROJECT LEVEES MAINTAINED BY:

State of California, Department of Water Resources

Reclamation, Levee and Drainage
Districts and Municipalities

(200) River Miles

Plate 1

The Sacramento River and the
San Joaquin River Flood Control System

Project Levees and Channels

EXPLANATION OF TABLES

Table 1

This is a summary of levee construction activity during 2001 on the Sacramento and San Joaquin River flood control systems, including emergency levee and bank reconstruction, new levee construction, bank protection by the USACE and bank protection by maintaining agencies. This is presented in Table 1 (page 14).

Tables 2 and 3

The 2001 ratings of maintenance are summarized in Tables 2 and 3. Table 2 (page 15) presents a summary of maintenance ratings by project, and Table 3 (page 16) presents a summary of maintenance ratings of the maintaining agencies.

Tables 4, 5, and 6

A summary of the consecutive annual ratings for the past 10 years (1992 - 2001) are in these tables. Table 4 (page 19) is of the Sacramento River Basin, Table 5 (page 22) is of the San Joaquin River Basin and Table 6 (page 24) is of the miscellaneous stream basins.

Tables 7, 8, and 9

Shows ratings of conformance of levee maintenance with federal and State guidelines governing the maintenance of flood control works. Table 7 (page 25) presents this information for the Sacramento River Basin, Table 8 (page 43) presents this information for the San Joaquin River Basin, and Table 9 (page 52) presents this information for miscellaneous stream basins in Lake, Plumas, and Solano counties.

Table 10

Table 10 presents a status summary of those project areas affected by subsidence (page 54).

Tables 11, 12, and 13

Also, during the summer of each year, an inspection is made of 55 structures which consist of weirs, pumping plants, drop structures, and control structures constructed by the USACE and the State as part of the flood control works. Table 11 (page 57) is of the Sacramento River Basin, Table 12 (page 59) is of the San Joaquin River Basin and Table 13

(page 61) is of the miscellaneous stream basins. These tables summarize conditions of the structures at the time of inspection.

(EXPLANATION OF TABLES CONTINUED)

Tables 14, 15 and 16

DWR inspects approximately 348,000 acres of channels and floodways in the Sacramento and San Joaquin Rivers Flood Control Projects, Ash and Dry Creeks in Modoc County, Middle Creek in Lake County, and Truckee River in Placer County. The purpose of these inspections is to report to the USACE on conditions that adversely affect the flood-carrying capacity of the channel.

Table 14 (page 62) is of the Sacramento River Basin, Table 15 (page 63) is of the San Joaquin River Basin and Table 16 (page 64) is of the Miscellaneous Stream Basins. The tables list each stream inspected, area cleared during 2001, and overall condition of each channel to carry flood flows.

RATINGS CRITERIA

Ratings

The 2001 spring inspection, conducted during the months of April through June, informs the responsible agencies about the type of maintenance recommended, if any, prior to the flood season. The fall inspection conducted during the months of September through December documents that the recommended maintenance had been accomplished. The 2001 ratings of maintenance documented in this report have been based on the fall inspection.

The ratings represented subjective assessment by the DWR Flood Project Inspection Section, based on field evaluations, of the level of maintenance observed at the time of inspection relative to federally-prescribed maintenance guidelines and to State guidelines for vegetation on oversized levees. The following criteria for ratings of maintenance were used:

OUTSTANDING (O) maintenance that conforms to federal and State guidelines.

GOOD (G) maintenance that varies slightly from federal and State guidelines.

FAIR (F) maintenance that varies considerably from federal and State guidelines.

POOR (P) for cases where (1) little or no maintenance work has been performed, or (2) maintenance varies extensively from federal and State guidelines.

It is emphasized that a "Poor" rating for individual rating categories does not necessarily imply that the structural integrity of the flood control facility is in jeopardy. Some examples of poor levee maintenance are: (a) failure to add gravel where needed and/or to shape the crown roadways for proper drainage during wet weather; (b) failure to either remove or seal abandoned, inoperative, or leaky pipes; (c) failure to eliminate unauthorized grazing and vehicular traffic; and (d) failure to remove undesirable growth on the levee slopes or in rock revetments.

Similarly, an "Outstanding" rating is not intended to provide certification that the facility is free from structural defects. As indicated in the introduction, evaluation of structural integrity is beyond the scope of the inspection program.

U.S. Army Corps of Engineers Operation and Maintenance Manual

Each district has an assigned supplement to the USACE's Standard Operation and Maintenance Manual applicable to the particular federal project unit for which it is responsible. Information in such manuals guides each district in carrying out its responsibilities for levee maintenance.

(RATINGS CRITERIA CONTINUED)

Levee Criteria

When applying the ratings described above, a number of factors pertaining to maintenance are considered. The following criteria are extracted from Title 33, Code of Federal Regulations, except for the reference within Item 4 to USACE's Manual 1110-2-301, "Guidelines for Landscape, Planting and Vegetation Management at Floodwalls, Levees and Embankment Dams".

1. Readiness for Flood Emergency

   Each district shall have an organized plan to combat a flood situation effectively. This should include the appointment of one individual to supervise and execute the plan, stockpiling of standard flood-fighting equipment and materials, and access to portable radios and/or cellular phones for communication during patrolling or a flood emergency.

2. Adequate Levee Section and Grade

   Each district shall perform the work necessary to maintain levee-side slopes, grade, and crown width to meet the standards for its particular levee system. Crown widths for federal project levees within the Sacramento-San Joaquin Valley flood control systems are shown on Plate 4 (page 61). Levee design standards are summarized on Plate 5 (page 62).

3. Presence of Encroachments

   Each district must prevent and attempt to remove any structures on, additions to, or alterations of the levee unless authorized by permit from The Reclamation Board. Failure of the local agency to control unauthorized encroachments may threaten the integrity of the levee.

4. Control of Wild Vegetative Growth

   Each district shall have a program to selectively control vegetation on the levee slopes and in rock revetments. This is needed to provide visibility for inspection and patrolling and to prevent interference with flood-fighting activities. Some vegetation on "oversized" levees is permitted in accordance with Title 23; the Operations and Maintenance Manual and the Corps Manual 1110-2-301. An "oversized" levee is a levee with a cross section having a crown width exceeding 20 feet or with side slopes flatter than 2 feet to 1 foot on the landward slope and 3 feet to 1 foot on the water ward slope.

5. Rodent Control

   Each district shall have a rodent control program. Diligent efforts to eradicate burrowing animals are a necessity, and eliminating them from an infested levee is extremely difficult. Control of these animals must be pursued frequently and persistently to assure safety of the levee during flood periods.

(RATINGS CRITERIA CONTINUED)

6. Repair of Cracks, Erosion and Caving

Each district shall repair cracks, current or wave wash erosion, caving or other structural problems. Repair of these problems becomes critical because, unless repaired, these problems can rapidly become worse and could threaten the levee's integrity. Failure to repair a problem of this type could lead to levee failure.

7. Repair of Access Gates

All gates shall be maintained and repaired to provide easy access for authorized people when necessary and to control unauthorized access.

8. Condition of Rock Revetment

Each district shall make all repairs to scour, wash, settlement, or failure of any portion of rock revetments. Rock revetments have been installed at locations where stream flow conditions indicate the need for such protection. Early detection and prompt repair will result in a minimum of effort and cost to restore the revetment.

9. Condition of Levee Crown

Each district must keep crown roadways shaped and graded to provide proper drainage. Repair of ruts and addition of gravel where necessary ensure a serviceable road under even the most adverse conditions.

10. Control of Livestock Grazing

Each district shall control stock grazing on levee slopes in such a manner as to permit normal maintenance activities and to minimize damage to the slope. Any damage to the slope must be repaired. Controlled livestock grazing may be used as a vegetation management tool.

11. Condition of Pipes and Appurtenances

Each district must examine all structures situated through, in, or on the levee for stability and structural soundness at least once a year. All component parts must be examined for effectiveness of operation and reliability before the start of each flood season. New structures should be installed or older structures repaired only in accordance with adopted Board standards and under the supervision of qualified Board personnel. Defective structures must be repaired, replaced, or removed immediately.

ENCROACHMENTS

Section 8710 of the California Water Code requires the Board's approval of all plans for encroachments on project flood control facilities. Prior to approval, the Board receives recommendations from DWR and the USACE relating to engineering, maintenance, and flood control aspects of the encroachments. An environmental review committee provides an assessment of the proposed encroachment. Following approval by the Board or its general manager, DWR is responsible for inspecting the encroachment construction to ensure conformance with the approved plans.

The Board also controls encroachments within designated floodways, shown on Plate 2 (page 9). The Board has adopted many major rivers and streams that are not Flood Control Project Channels as part of the flood control system. While permits should be obtained before construction of encroachments, landowners often fail to submit applications to the Board and encroachments are not discovered until either the local maintaining agency or the DWR inspector discovers the encroachment during a routine inspection or random observation during the course of daily business.

During 2001, the Flood Project Inspection Section Encroachment Enforcement Unit dealt with encroachments to seek compliance with California Code of Regulations, Title 23 Waters, Division 1 Reclamation Board, Volume 32. When encroachments were found and the local maintaining agency was unsuccessful in bringing about compliance with the regulations, FPIS would issue a notice of violation to the party in violation. The notice then starts the process of enforcement of the regulations to remove, modify or obtain a permit for the encroachment through the Reclamation Board.

The year began with 182 existing encroachments. During the year, there were 73 new encroachments discovered. Eighty were resolved during 2001, leaving a balance of 175 unresolved encroachments. The local maintaining agencies and FPIS staff will continue to pursue a resolution of each remaining encroachment. Those unresolved will then be elevated to the Floodway Enforcement Unit of the DWR Floodplain Management Branch.

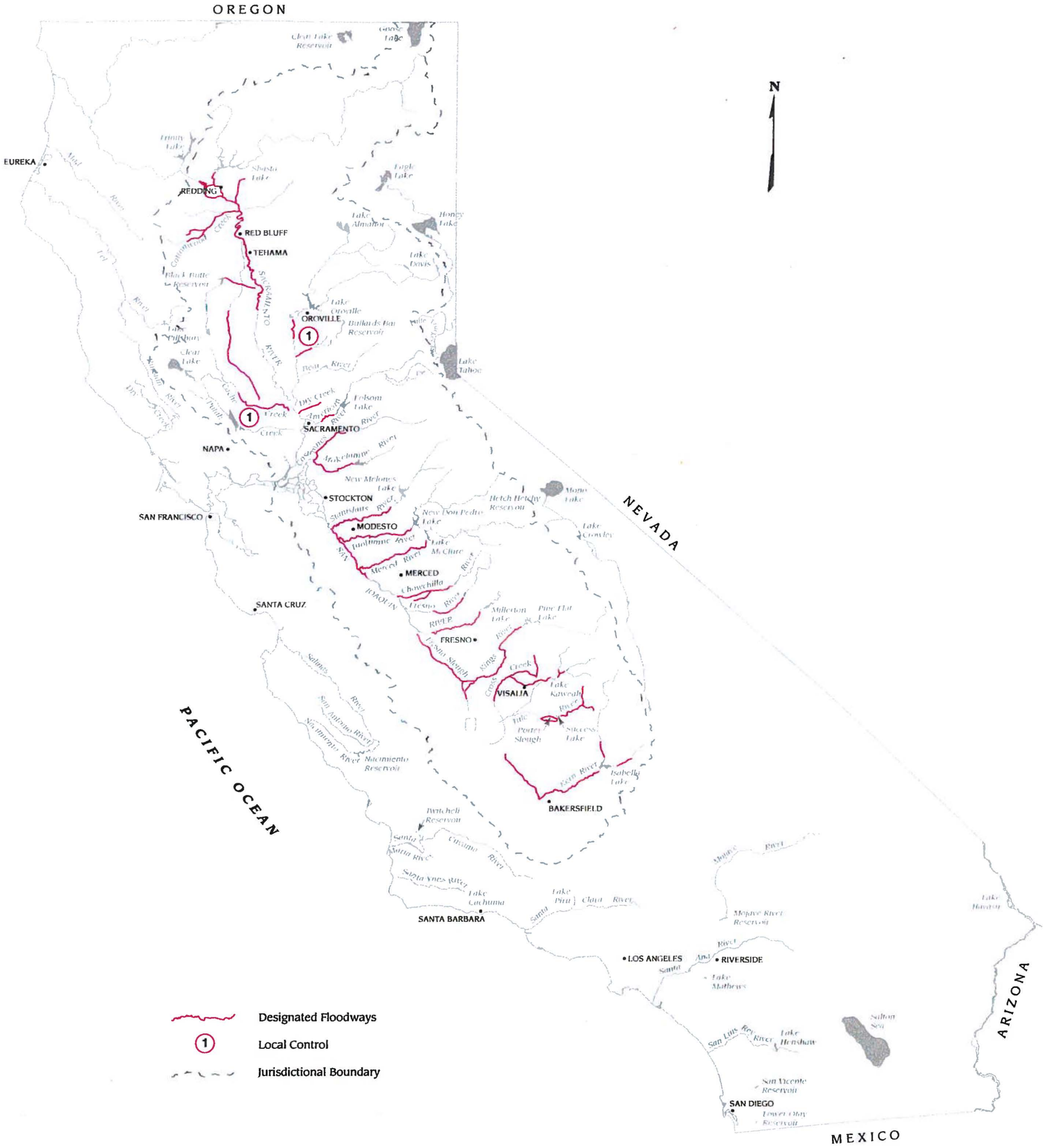


Plate 2

The Sacramento River and the
San Joaquin River Flood Control System

Reclamation Board Adopted Designated FloodwayS

CURRENT MAJOR ACTIVITIES

The "Current Major Activities" section of this report has been deleted. This information is covered in The Reclamation Board's General Manager's Report. For a copy of the General Manager's Report, please contact The Reclamation Board at 1416 Ninth Street, Room 1601, Sacramento, California 95814, telephone (916) 653-5434.

TABLE 1. LEVEE CONSTRUCTION - 2001

UnitNo	River Mile	Bank	Location	Maintaining Agency	Construction or Rehabilitation Description	Rock Revetment Feet
Sacramento and San Joaquin River Flood Control Projects						
Construction Projects by The U.S. Army Corps of Engineers						
No new construction in 2001						

Table 2. Summary of Maintenance Ratings by Project - 2001
Levee and Bank Protection Maintenance Rating (Percentage of miles in the given waterway)

Project	Miles	Outstanding /Good	Fair	Poor
Sacramento River Basin				
Sacramento River and Tributaries	1090.0	92.2%	6.1%	1.7%
Subtotal	***1090.0***	***92.2%***	***6.1%***	***1.7%***
San Joaquin River Basin				
Lower San Joaquin Levee District	191.4	100.0%	0.0%	0.0%
Madera County Flood Control and Water Conservation Agency	26.7	100.0%	0.0%	0.0%
Merced County Stream Group	6.3	0.0%	100.0%	0.0%
San Joaquin County Flood Control District	104.5	50.6%	0.0%	49.4%
San Joaquin River and Tributaries	143.4	85.9%	14.1%	0.0%
Subtotal	***472.3***	***83.5%***	***5.6%***	***10.9%***
Miscellaneous Streams Basins				
Lake County	3.9	100.0%		
Lake County Flood Control District	14.4	100.0%		
Plumas County	3.2	100.0%		
Subtotal	***21.5***	***18.1%***		
Grand Total	***1583.8***	***89.7%***	***5.9%***	***4.4%***

TABLE 3. SUMMARY OF OVERALL MAINTENANCE RATINGS SACRAMENTO RIVER BASIN - 2001

LEVEE DISTRICTS

Outstanding

0001-Sutter County

Total miles - 16.7

Good

0009-Sutter County
0003-Glenn County
0002-Glenn County
0001-Glenn County

Total miles - 35.7

Total Levee District Mileage 52.4

RECLAMATION DISTRICT

Outstanding

0108-River Farm
0787-Fair
1000-Natomas
1500-Sutter Basin
1601-Twitchell
1660-Tisdale
2035-Conway Ranch
2060-Hastings Island
2068-Yolano
0070-Meridian

Total miles - 197

Good

0785-Driver
0003-Grand Island
0349-Sutter Island
0501-Ryer Island
0536-Egbert Tract
0537-Lovdal
0010-Simmerly
0341-Sherman Island
0827-Elkhorn
2103-Wheatland
1600-Mull
1001-Nicolaus
0999-Holland Land
0765-Glide
0900-West Sacramento
0784-Plumas Lake
0817-Carlin

Total miles - 280.2

Fair

0551-Pearson District
0554-Walnut Grove
0563-Tyler Island
0307-Lisbon
0150-Merritt Landing
0755-Randall
2098-Cache Haas Area
2104-Peters Pocket
0369-Libby-McNeil

Total miles - 66.3

Poor

0556-Upper Andrus

Total miles - 11.2

Total Reclamation District Mileage 554.7

NAMED DISTRICTS

Outstanding

Eastern Honcut Creek Area (Unorganized)
Yolo County, Cache Creek
City of Marysville
Solano County, Yolo Bypass - Mellin Levee
City of Sacramento
American River Flood District

Total miles - 50.1

Good

Brannan-Andrus Levee Maintenance District
Butte County Chico, Mud and Sandy Creeks
Knights Landing Ridge Drainage District
Yolo County, Service Area 6
Sacramento River West Side Levee District
Tehama County, Elder Creek

Total miles - 124.8

Fair

Tehama County, Deer Creek

Total miles - 6.9

Not Rated

Butte County, Sacramento River (Rock Sites)
Tehama County, Sacramento River (Rock Sites)
Glenn County (Rock Sites)

Total miles - 17

Total Named District Mileage 198.8

STATE MAINTAINED

Outstanding

Tisdale Bypass
Wadsworth Canal
East Levee Sutter Bypass
West Levee Feather River at Hamilton Bend
Cache Creek and Settling Basin
Sacramento Bypass
West Levee Yolo Bypass
East Levee Yolo Bypass
Sacramento River East Levee
Willow Slough Bypass
0016-MA Reclamation District 777
0003-MA Reclamation District 803 - 823
0012-MA Colusa Basin Drain

Total miles - 144.1

Good

Fish and Game (Shea Levee)
0001-MA Reclamation District 2047
0004-MA Reclamation District 81/Washington Levee District
0005-MA Butte Creek
0007-MA Drainage District 1 and Unorganized
0009-MA East Levee Sacramento River
0013-MA Cherokee Canal
East Interceptor Canal South Levee
West Interceptor Canal South Levee
0015-MA Murphy Slough
Putah Creek

Total miles - 156.5

Poor

West Levee Feather River at Nelson Bend

Total miles - 0.5

Total Maintained by State of California Mileage 301.1

TABLE 3. SUMMARY OF OVERALL MAINTENANCE RATINGS SAN JOAQUIN RIVER BASIN - 2001

LEVEE DISTRICTS

There are no levee districts in the San Joaquin River basin.

RECLAMATION DISTRICT

Outstanding

2096-Weatherbee Lake
2062-Stewart Tract
2094-Walthall
2091-Chase

Total miles - 23.7

Good

2085-Kasson
0017-Mossdale
0544-Upper Roberts Island
2031-Elliot
2058-Pescadero
2063-Crows Landing
0001-Union Island
2075-McMullin
2107-Mossdale Landing
2089-Stark Grove
2092-Dos Rios
2095-Paradise Junction
2064-River Junction

Total miles - 99.5

Fair

1602-Del Puerto
2101-Blewett
0524-Middle Roberts Island
0404-Boggs

Total miles - 20.2

Not Rated

*2099 El Soya Ranch
*2100 White Lake Ranch
*2102-Lara Ranch

Total miles - 6.9

Total Reclamation District Mileage 150.3

NAMED DISTRICTS

Outstanding

San Joaquin County Flood Control District - Littlejohn Creek
Madera County Flood Control and Water Conservation Agency
Lower San Joaquin Levee District

Total miles - 224.5

Good

San Joaquin County Flood Control District - Bear Creek

Total miles - 46.5

Fair

San Joaquin County Flood Control District - Mormon Slough, Stockton Diverting Canal and Calaveras River
Merced County Stream Group (Merced Irrigation District)

Total miles - 57.9

Total Named District Mileage 328.9

STATE MAINTAINED

There are no State maintained areas in the San Joaquin River basin.

* Districts are in the process of being decertifie

TABLE 3. SUMMARY OF OVERALL MAINTENANCE RATINGS MISCELLANEOUS STREAMS BASINS - 2001

LEVEE DISTRICTS

There are no levee districts in the Miscellaneous Streams basins.

RECLAMATION DISTRICT

There are no reclamation districts in the Miscellaneous Streams basins.

NAMED DISTRICTS

Good

Plumas County

Lake County Flood Control District

Total miles - 17.6

Total Named District Mileage 17.6

MAINTENANCE AREA

Outstanding

MA-17 Lake County - Middle Creek

Total miles - 3.9

Total Maintenance Area Mileage 3.9

TABLE 4. TEN-YEAR LEVEE MAINTENANCE RECORD ON SACRAMENTO RIVER BASIN - 1992 to 2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
Levee District											
0001-Glenn County	12.4	G	G	G	G	G	G	G	G	G	G
0001-Sutter County	16.7	O	O	O	O	O	O	O	O	O	O
0002-Glenn County	4.9	G	G	G	G	G	G	G	G	G	G
0003-Glenn County	12.2	G	P	P	P	P	F	F	G	G	G
0009-Sutter County	6.2	O	O	O	O	G	O	G	G	G	G
Maintained by State of California											
0001-MA Reclamation District 2047	17.1	G	G	G	G	G	G	G	G	G	G
0003-MA Reclamation District 803 - 823	5.2	O	O	O	O	O	O	O	O	O	O
0004-MA Reclamation District 81/Washington Levee District	3.4	G	G	G	G	G	G	G	G	G	G
0005-MA Butte Creek	33.4	G	G	G	G	G	G	G	G	G	G
0007-MA Drainage District 1 and Unorganized	12.1	G	G	G	G	G	G	G	G	G	G
0009-MA East Levee Sacramento River	19.6	G	G	G	G	G	G	G	G	G	G
0012-MA Colusa Basin Drain	11.3	O	O	O	O	O	O	O	O	O	O
0013-MA Cherokee Canal	42	G	G	G	G	G	G	G	G	G	G
0015-MA Murphy Slough	7.5	G	G	G	G	F	F	F	G	F	G
0016-MA Reclamation District 777	4.1	G	G	G	G	F	F	G	O	O	O
Cache Creek and Settling Basin	25.1	O	O	O	O	O	O	O	O	O	O
East Interceptor Canal South Levee	3	G	G	G	G	G	G	G	G	G	G
East Levee Sutter Bypass	22.1	O	O	O	O	G	G	O	O	O	O
East Levee Yolo Bypass	2	O	O	O	O	O	O	O	O	O	O
Fish and Game (Shea Levee)	0.3	G	G	G	G	G	G	G	G	G	G
Putah Creek	16.3	O	O	O	O	O	O	O	O	O	G
Sacramento Bypass	3.6	O	O	O	O	O	O	O	O	O	O
Sacramento River East Levee	27.3	O	O	O	O	O	O	O	O	O	O
Tisdale Bypass	9	O	O	O	O	O	O	O	O	O	O
Wadsworth Canal	9.4	O	O	O	O	O	O	G	O	O	O
West Interceptor Canal South Levee	1.8	G	G	G	G	G	G	F	G	G	G
West Levee Feather River at Hamilton Bend	1.2	O	O	O	O	O	O	O	O	O	O
West Levee Feather River at Nelson Bend	0.5	G	G	G	G	O	O	O	F	P	P
West Levee Yolo Bypass	9.3	O	O	O	O	O	O	O	O	O	O
Willow Slough Bypass	14.5	G	G	O	O	O	O	O	O	O	O

TABLE 4. TEN-YEAR LEVEE MAINTENANCE RECORD ON SACRAMENTO RIVER BASIN - 1992 to 2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
Named District											
American River Flood District	32.7	O	O	O	O	O	O	O	O	O	O
Brannan-Andrus Levee Maintenance District	19.3	G	G	F	F	P	G	G	G	G	G
Butte County Chico, Mud and Sandy Creeks	28.7	O	O	O	O	G	G	G	G	G	G
Butte County, Sacramento River (Rock Sites)	3.5	-	-	-	-	-	-	-	-	-	-
City of Marysville	11.4	O	O	O	O	O	O	O	O	O	O
City of Sacramento	3.6	G	G	O	O	G	G	G	G	G	O
Eastern Honcut Creek Area (Unorganized)	1.5	O	O	O	O	O	O	O	O	O	O
Glenn County (Rock Sites)	1.5	F	F	F	F	F	P	P	P	-	-
Knights Landing Ridge Drainage District	12.6	G	G	G	G	G	G	G	G	G	G
Sacramento River West Side Levee District	50.2	O	G	G	G	G	G	G	G	G	G
Solano County, Yolo Bypass - Mellin Levee	0.6	G	G	G	G	G	G	P	G	G	O
Tehama County, Deer Creek	6.9	F	P	P	P	P	F	G	G	F	G
Tehama County, Elder Creek	8	G	G	G	G	G	G	G	G	G	G
Tehama County, Sacramento River (Rock Sites)	12	F	F	F	F	F	F	F	F	-	-
Yolo County, Cache Creek	0.3	O	O	O	O	O	O	O	O	O	O
Yolo County, Service Area 6	6	F	P	F	F	P	P	P	P	F	G
Reclamation District											
0003-Grand Island	28.6	O	G	O	O	O	O	O	O	G	G
0010-Simmerly	21.9	G	G	G	G	G	G	G	G	G	G
0070-Meridian	23.6	O	O	O	O	O	O	O	O	O	O
0108-River Farm	20.6	O	O	O	O	G	G	G	G	O	O
0150-Merritt Landing	18.1	G	G	G	G	F	F	P	P	F	F
0307-Lisbon	6.7	P	P	P	P	P	P	P	P	P	F
0341-Sherman Island	9.7	G	F	F	F	G	G	F	G	G	G
0349-Sutter Island	12.6	G	G	G	G	F	F	F	F	G	G
0369-Libby-McNeil	0.8	G	G	F	F	F	F	F	P	P	F
0501-Ryer Island	20.5	G	G	G	G	G	G	G	G	G	G
0536-Egbert Tract	10.7	F	F	F	F	P	P	F	F	F	G
0537-Lovdal	6	G	G	G	G	F	F	F	G	G	G
0551-Pearson District	6.8	G	G	G	G	F	P	P	P	P	F
0554-Walnut Grove	1.2	G	G	G	G	F	F	F	P	P	F

TABLE 4. TEN-YEAR LEVEE MAINTENANCE RECORD ON SACRAMENTO RIVER BASIN - 1992 to 2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
0556-Upper Andrus	11.2	G	G	F	F	P	P	P	P	P	P
0563-Tyler Island	12.4	P	P	P	P	P	P	P	P	F	F
0755-Randall	1.9	G	G	F	F	P	P	P	P	P	G
0765-Glide	1.7	P	F	G	G	G	G	G	G	G	G
0784-Plumas Lake	35.2	O	O	O	O	O	O	O	G	G	G
0785-Driver	5.6	G	G	G	G	F	F	F	P	F	G
0787-Fair	4.4	O	O	O	O	O	O	O	O	O	O
0817-Carlin	9	F	F	F	F	F	G	F	P	P	G
0827-Elkhorn	4.2	F	G	G	G	F	F	P	P	P	G
0900-West Sacramento	13.6	G	G	G	G	G	G	G	G	G	G
0999-Holland Land	32.4	G	G	G	G	G	G	G	G	G	G
1000-Natomas	42.6	G	G	G	G	O	O	O	O	O	O
1001-Nicolaus	44	G	G	G	G	G	G	G	G	G	G
1500-Sutter Basin	54.4	O	O	O	O	O	O	O	O	O	O
1600-Mull	14.7	F	F	F	F	P	P	P	P	F	G
1601-Twitchell	2.5	G	G	O	O	O	O	O	O	O	O
1660-Tisdale	12.1	O	O	O	O	O	O	O	O	O	O
2035-Conway Ranch	12.1	O	O	O	O	O	O	O	O	O	O
2060-Hastings Island	16	G	G	G	G	G	G	G	O	O	O
2068-Yolano	8.7	O	O	O	O	G	O	O	G	G	O
2098-Cache Haas Area	11	G	G	G	G	F	F	F	F	F	F
2103-Wheatland	9.8	F	F	F	F	F	G	G	G	G	G
2104-Peters Pocket	7.4	F	F	G	G	F	F	F	G	F	F

TABLE 5. TEN-YEAR LEVEE MAINTENANCE RECORD ON SAN JOAQUIN RIVER BASIN, 1992-2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
Named District											
Lower San Joaquin Levee District	191.4	O	O	O	O	O	O	O	O	O	O
Madera County Flood Control and Water Conservation Agency	26.7	O	O	O	O	O	O	O	O	O	O
Merced County Stream Group (Merced Irrigation District)	6.3	G	P	F	F	F	F	F	F	F	F
San Joaquin County Flood Control District - Bear Creek	46.5	O	O	O	O	G	G	G	G	G	G
San Joaquin County Flood Control District - Littlejohn Creek	6.4	O	O	O	O	O	O	O	O	O	O
San Joaquin County Flood Control District - Mormon Slough, Stockton Diverting Canal and Calaveras River	51.6	G	G	G	G	F	F	F	P	P	F
Turlock Irrigation District	0.3	-	-	-	-	-	-	-	-	-	O
Reclamation District											
*2099 El Soya Ranch	2.4	G	G	G	G	F	-	-	-	-	-
*2100 White Lake Ranch	2.7	G	G	G	G	F	-	-	-	-	-
*2102-Lara Ranch	1.8	G	F	F	F	F	-	-	-	-	-
0001-Union Island	1.2	G	G	G	G	G	G	G	G	G	G
0017-Mossdale	16.2	G	G	G	G	G	G	G	G	G	G
0404-Boggs	4.1	G	G	G	G	G	G	G	F	F	F
0524-Middle Roberts Island	6.3	F	G	F	F	F	F	F	F	F	F
0544-Upper Roberts Island	10.3	G	G	G	G	F	G	G	G	G	G
1602-Del Puerto	6.3	G	G	G	G	G	F	G	P	F	F
2031-Elliot	13.2	G	G	G	G	G	G	G	G	G	G
2058-Pescadero	6.7	G	G	G	G	F	G	G	G	G	G
2062-Stewart Tract	12.3	O	O	O	O	O	O	O	O	O	O
2063-Crows Landing	10.6	G	G	G	G	G	F	F	P	G	G
2064-River Junction	11.9	G	G	G	G	F	F	F	F	G	G
2075-McMullin	7.5	G	G	G	G	G	G	G	F	G	G
2085-Kasson	6.2	G	G	G	G	G	G	G	G	G	G
2089-Stark Grove	2.9	G	G	G	G	G	G	G	G	G	G
2091-Chase	7.9	O	O	O	O	O	O	O	O	O	O
2092-Dos Rios	3.8	G	G	G	G	G	G	G	G	G	G
2094-Walthall	3.3	G	G	G	G	G	G	G	G	G	O
2095-Paradise Junction	4.8	G	G	G	G	F	G	G	G	G	G

TABLE 5. TEN-YEAR LEVEE MAINTENANCE RECORD ON SAN JOAQUIN RIVER BASIN, 1992-2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
2096-Weatherbee Lake	0.2	O	O	O	O	O	O	O	O	O	O
2101-Blewett	3.5	G	G	G	G	F	G	G	G	F	F
2107-Mossdale Landing	4.2	F	G	G	F	F	G	G	G	G	G

TABLE 6. TEN-YEAR LEVEE MAINTENANCE RECORD ON MISCELLANEOUS STREAMS BASINS, 1992-2001

Maintenance Ratings, By Year (Composite Ratings by Multi-Unit Districts)

Maintaining Agency	Miles	92	93	94	95	96	97	98	99	00	01
Maintenance Area											
MA-17 Lake County - Middle Creek	3.9	-	-	-	-	-	-	-	-	-	O
Named District											
Lake County Flood Control District	14.4	O	O	O	O	G	G	G	G	G	G
Plumas County	3.2	-	-	-	O	O	O	O	O	G	G

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Levee District																	
No. 0001																	
Glenn County, Sacramento River	140	X		12.4	F	G	G	G	O	G	G	G	G	G	-	G	G
Sutter County, Feather River	144	X		16.7	O	O	O	O	O	G	O	O	O	O	-	G	O
No. 0002																	
Glenn County, Sacramento River	139	X		4.9	F	G	G	G	G	G	G	G	G	O	-	G	G
No. 0003																	
Glenn County, Sacramento River	2		X	12.2	P	G	G	G	G	G	G	O	G	G	-	G	G
No. 0009																	
Sutter County, Feather River	148	X		6.2	F	O	F	O	O	G	O	O	O	O	-	G	G
Reclamation District																	
No. 0003																	
Unit 1, Steamboat Slough	104		X	11	O	O	F	G	G	O	O	O	O	O	-	G	G
Unit 2, Sacramento River	104	X		17.6	O	O	F	O	G	O	O	O	G	O	-	G	G
No. 0010																	
Unit 1, Simmerly Slough	151	X		7.7	G	O	G	G	O	G	O	O	-	G	-	O	G
Unit 2, Feather River	151	X		11.2	G	O	G	O	G	G	O	G	-	G	-	O	G
Unit 3, Honcut Creek	151		X	3	G	O	G	G	G	G	O	O	-	G	-	O	G

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0070																	
Unit 1, Sutter Bypass	133	X		8	O	O	G	O	O	O	O	O	-	O	O	G	O
Unit 2, Sacramento River	134		X	15.6	O	O	G	O	O	O	O	O	O	O	O	G	O
No. 0108																	
Colusa Basin Drain	132		X	20.6	O	O	O	O	O	G	O	O	O	O	-	O	O
No. 0150																	
Unit 1, Sutter Slough	112		X	0.5	G	G	O	F	G	O	O	O	G	G	-	O	G
Unit 2, Sacramento River	112	X		8	G	O	P	P	P	G	G	-	F	O	-	O	F
Unit 3, Elk Slough	112		X	9.6	G	G	F	G	G	G	G	G	G	F	-	G	G
No. 0307																	
Sacramento River	114	X		6.7	P	G	P	F	F	F	F	-	F	O	-	F	P
No. 0341																	
Unit No. 1 Threemile Slough	101	X		3.3	O	G	G	G	F	G	G	-	G	G	G	G	G
Unit No. 2 Sacramento River	101		X	6.4	O	G	F	G	G	G	G	G	G	G	-	G	G
No. 0349																	
Unit No. 1 Sacramento River	110	X		1.6	F	G	F	G	O	G	G	-	F	O	-	G	F
Unit No. 2 Steamboat Slough	110	X		4.4	F	G	F	G	G	G	F	-	G	O	-	G	G
Unit No. 3 Sutter Slough	110		X	6.6	F	G	P	G	G	G	O	G	G	G	-	G	G

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0369																	
Sacramento River	111		X	0.8	F	G	F	G	G	F	G	-	F	O	-	G	F
No. 0501																	
Unit No. 1 Steamboat Slough	105	X		6.8	O	G	G	F	F	G	O	-	F	O	-	F	F
Unit No. 2 Cache Slough	105		X	3.6	O	G	G	G	G	O	O	-	F	O	-	G	G
Unit No. 3 Miner Slough	105		X	7.8	O	G	G	G	F	G	O	-	F	G	-	G	G
Unit No. 4 Sutter Slough	105	X		2.3	O	G	O	F	P	G	O	-	F	O	-	G	F
No. 0536																	
Unit No. 1 Lindsey Slough	106	X		5.7	F	G	O	G	O	O	F	G	G	G	-	G	G
Unit No. 2 Yolo Bypass	106	X		5	F	G	O	O	O	O	O	G	-	G	G	G	G
No. 0537																	
Unit No. 1 Sacramento River	9/116	X		4.8	O	O	G	G	F	G	G	-	G	O	-	G	G
Unit No. 2 Yolo Bypass	116		X	1.2	O	O	O	O	O	G	G	-	G	O	-	G	O
No. 0551																	
Sacramento River	111		X	6.8	G	G	F	F	F	F	G	-	G	O	-	G	F
No. 0554																	
Sacramento River	111		X	1.2	G	G	P	P	P	G	G	-	F	G	-	G	F

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0556																	
Unit No. 1 Georgiana Slough	103	X		5.5	G	G	P	F	F	F	P	G	F	F	-	F	P
Unit No. 2 Sacramento River	103	X		5.7	G	G	P	P	P	F	G	-	F	G	-	P	P
No. 0563																	
Georgiana Slough (Tyler Island)	103		X	12.4	G	G	F	F	F	F	P	G	P	F	-	G	F
No. 0755																	
Sacramento River	111		X	1.9	G	G	F	F	F	G	G	-	G	G	-	G	G
No. 0765																	
Sacramento River	114	X		1.7	G	O	G	G	F	O	G	-	F	O	-	G	G
No. 0784																	
Unit No. 1 Yuba River	149		X	2.2	O	G	G	O	O	G	G	O	O	O	-	G	G
Unit No. 2 Feather River	145		X	13.6	O	G	G	O	O	G	G	O	-	O	-	G	G
Unit No. 3 Bear River	5	X		4.7	O	G	O	O	G	G	O	O	-	O	-	G	G
Unit No. 4 Interceptor Canal	145		X	6.3	O	G	O	O	O	O	G	O	-	O	-	O	O
Unit No. 5 Interceptor Canal	145		X	4.2	O	G	O	O	O	O	G	G	-	G	-	O	O
Unit No. 6 South Dry Creek	145	X		0.3	O	O	O	O	O	G	G	O	-	G	-	O	O
Unit No. 7 Yuba River	149		X	3.9	0	G	G	G	G	G	G	O	-	G	-	G	G

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0785																	
Unit No. 1 Sacramento River	122	X		2.3	G	O	G	G	G	G	G	-	G	O	-	F	G
Unit No. 2 Yolo Bypass	122		X	3.3	G	O	O	O	O	G	G	G	G	G	-	G	G
No. 0787																	
Colusa Basin Drain	132		X	4.4	G	G	O	O	O	O	G	-	-	O	-	G	O
No. 0817																	
Unit No. 1 South Dry Creek	146	X		3.8	F	G	G	G	G	G	G	G	G	G	-	G	G
Unit No. 2 Bear River	146	X		3.9	F	G	G	G	G	G	G	G	G	G	-	G	G
Unit No. 3 Dry Creek	146		X	1.3	F	G	G	O	O	G	G	G	-	G	-	G	G
No. 0827																	
Unit No. 1 Sacramento River	122	X		1.4	G	O	O	G	G	G	G	G	G	G	-	G	G
Unit No. 2 Yolo Bypass	122		X	2.8	G	O	G	G	G	F	G	G	G	G	-	G	G
No. 0900																	
Unit No. 1 Sacramento River	116	X		7.9	O	O	F	G	F	O	G	G	G	G	-	O	G
Unit No. 2 Yolo Bypass	116		X	5.7	O	G	O	F	F	O	G	O	O	G	-	O	G

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0999																	
Unit No. 1 Yolo Bypass	113		X	15.4	O	O	O	G	G	G	F	G	-	G	G	G	G
Unit No. 2 Miner Slough	113	X		2.3	O	O	O	G	G	O	O	O	G	O	-	G	O
Unit No. 3 Sutter Slough	113	X		3.8	O	O	O	G	G	G	O	O	G	O	-	G	O
Unit No. 4 Sacramento River	113	X		1.2	O	O	G	O	G	G	O	-	O	O	-	G	G
Unit No. 5 Elk Slough	113	X		9.7	O	G	F	F	F	G	O	O	-	G	-	G	G
No. 1000																	
Unit No. 1 Sacramento River	124		X	18.6	O	G	O	G	G	O	O	-	G	O	-	G	O
Unit No. 2 American River	124	X		2.3	O	G	O	O	G	G	G	G	-	O	-	G	G
Unit No. 3 Natomas E Canal	124	X		17.3	O	G	G	O	O	G	O	G	-	O	-	G	O
Unit No. 4 Natomas X Canal	124		X	4.4	O	O	O	O	O	O	O	O	-	O	-	G	O
No. 1001																	
Unit No. 1 Yankee Slough	141	X		4.2	O	G	G	O	O	G	G	O	-	G	-	G	G
Unit No. 2 Yankee Slough	141		X	3.7	O	G	G	O	O	G	O	O	-	G	-	G	O
Unit No. 3 Bear River	5/141		X	12.6	O	G	F	O	O	G	G	O	G	G	-	G	G
Unit No. 4 Feather River	141		X	13.3	O	G	G	G	G	G	G	O	G	G	-	G	G
Unit No. 5 Natomas X Canal	142	X		5.4	O	O	O	O	O	O	O	O	-	O	-	G	O
Unit No. 6 East Side Canal	142	X		4.8	O	O	O	O	O	G	O	O	-	G	-	G	O

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 1500																	
Unit No. 1 Sacramento River	1/12		X	33.6	O	O	O	O	O	G	O	O	O	O	-	G	O
Unit No. 2 Sutter Bypass	128/129	X		20.8	O	O	O	O	O	G	O	O	O	O	-	G	O
No. 1600																	
Unit No. 1 Sacramento	123	X		10.5	G	G	F	G	G	G	G	O	F	F	-	G	G
Unit No. 2 Yolo Bypass	123		X	4.2	G	O	O	G	G	G	G	F	G	F	-	G	G
No. 1601																	
Threemile Slough	102		X	2.5	O	O	O	O	O	O	O	O	O	O	-	O	O
No. 1660																	
Unit No. 1 Sacramento River	133		X	3	O	O	O	O	O	G	O	O	O	O	-	G	O
Unit No. 2 Sutter Bypass	133	X		9.1	O	O	O	O	O	G	O	O	O	O	-	G	O
No. 2035																	
Unit No. 1 Cache Creek Settling Basin	126	X		2	O	G	O	G	G	G	G	G	-	G	-	O	G
Unit No. 2 Yolo Bypass	120/121	X		7.6	O	O	O	O	O	O	G	O	-	O	-	O	O
Unit No. 3 Willow Slough Bypass	120		X	2.5	O	O	O	O	O	O	G	O	-	G	-	O	O

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 2060																	
Unit No. 1 Lindsey Slough	107		X	7.2	O	O	G	O	O	O	O	O	O	O	O	G	O
Unit No. 2 Ulatis Creek	107	X		3.7	O	O	O	O	O	O	O	O	O	G	O	G	O
Unit No. 3 Cache Slough	107	X		5.1	O	O	O	O	O	O	G	O	G	O	O	G	O
No. 2068																	
Unit No. 1 Yolo Bypass	109	X		5.5	O	O	O	O	G	O	G	O	-	G	O	G	O
Unit No. 2 Back Levee	109		X	3.2	O	O	G	O	G	O	G	O	-	G	G	G	G
No. 2098																	
Unit No. 1 Yolo Bypass	109	X		3.9	G	G	O	F	F	O	G	O	G	G	G	G	F
Unit No. 1A Cross Levee	109	X		0.6	G	G	O	F	F	O	O	O	O	G	O	O	G
Unit No. 2 Cache Slough	109		X	2	G	G	O	G	G	O	G	G	G	G	F	G	G
Unit No. 3 Haas Slough	109	X		1.9	G	G	O	O	O	O	G	G	G	F	F	G	G
Unit No. 4 Back Levee	109		X	2.9	G	G	O	F	G	O	F	G	G	F	G	G	F
No. 2103																	
Unit No. 1 South Dry Creek	146		X	4.8	G	G	F	G	G	G	G	G	G	G	G	G	G
Unit No. 2 Bear Creek	146	X		5	G	G	G	G	G	G	F	G	G	G	F	G	G
No. 2104																	
Unit No. 1 Cache Slough	108		X	2.6	G	G	G	G	G	G	F	G	G	P	F	G	G
Unit No. 2 Haas Slough	108	X		4.8	G	G	O	G	O	O	F	F	G	P	F	F	F

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Named District																	
American River Flood Control District																	
Unit No. 1 Arcade Creek	118		X	2.1	O	O	O	O	O	O	O	O	-	O	-	O	O
Unit No. 10 American River	1/, 2/	X		4	O	O	O	O	O	O	O	O	O	O	-	O	O
Unit No. 2 Natomas E Canal	118		X	4	O	O	O	O	O	O	O	O	-	O	-	O	O
Unit No. 3A American River	118	X		1.9	O	O	O	O	O	O	O	O	O	O	-	G	O
Unit No. 3B American River	118	X		1.6	O	O	O	O	O	O	O	O	O	O	-	G	O
Unit No. 4 American River	118		X	11	O	O	O	O	O	O	O	O	O	O	-	G	O
Unit No. 5 Sacramento River	118		X	0.4	O	O	O	O	O	O	O	O	-	O	-	O	O
Unit No. 6 Linda Creek	118		X	1.3	O	O	O	O	O	O	O	O	-	O	O	G	O
Unit No. 7 Arcade Creek	118	X		1.9	O	O	O	O	O	O	O	O	-	O	-	O	O
Unit No. 8 Magpie Creek Diversion	118		X	1.48	O	O	O	O	O	O	O	O	-	O	-	G	O
Unit No. 9 American River	1/, 2/	X		4.5	O	O	O	O	O	O	O	O	O	O	-	O	O
Brannan-Andrus Levee Maintenance District																	
Unit No. 1 Georgiana Slough	103	X		6	G	G	G	G	G	O	O	O	G	O	G	G	G
Unit No. 2 Sacramento River	11/102		X	13.3	G	G	F	F	G	G	G	-	G	G	-	G	G

1/ Has U.S. Army Corps of Engineers manual without number.
2/ Maintenance assumed by A.R.F.C.D. from DWR on 7/1/91.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Butte County																	
Unit No. 1 Mud Creek	1/	X		7.3	O	G	G	O	O	F	O	G	O	O	-	G	G
Unit No. 10 Sacramento River	1/		X	0.3	O	-	-	F	-	-	-	-	G	-	-	-	G
Unit No. 11 Sacramento River	1/		X	0.4	O	-	-	F	-	-	-	-	G	-	-	-	G
Unit No. 12 Sacramento River	1/		X	0.8	O	-	-	-	-	-	-	-	-	-	-	-	
Unit No. 2 Mud Creek	1/		X	8.2	O	G	G	O	G	F	G	O	O	O	-	G	G
Unit No. 2A Channel Slough	1/		X	0.3	O	G	G	G	G	G	G	-	-	G	-	G	G
Unit No. 3 Sycamore and Sheep Hollow Creeks	1/	X	X	4.2	O	O	O	O	O	G	G	O	O	G	O	O	O
Unit No. 4 Sycamore and Dry Creeks	1/	X	X	2.9	O	O	G	O	G	O	O	O	O	O	-	O	O
Unit No. 5 Big Chico Diversion	1/		X	1.8	O	O	O	O	G	O	O	O	O	O	-	O	G
Unit No. 6 Sacramento River	1/		X	0.4	O	-	-	G	-	-	-	-	G	-	-	-	G
Unit No. 7 Sacramento River	1/		X	0.3	O	-	-	G	-	-	-	-	G	-	-	-	G
Unit No. 8 Sacramento River	1/		X	0.8	O	-	-	F	-	-	-	-	P	-	-	-	P
Unit No. 9 Sacramento River	1/		X	0.5	O	-	-	F	-	-	-	-	G	-	-	-	G
City of Marysville																	
Unit No. 1 Simmerly Slough	147		X	3.2	O	O	O	O	O	G	O	O	-	O	-	G	O
Unit No. 2 Feather River	147		X	1.3	O	O	O	O	O	O	O	O	-	O	-	G	O
Unit No. 3 Yuba River	17	X		6.9	O	O	G	O	O	O	O	O	O	O	G	G	O

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
City of Sacramento																	
City of Sacramento	117/118		X	3.6	O	O	O	G	G	O	O	G	G	O	-	G	O
Eastern Honcut Creek Area																	
Van Tress	151		X	1.5	O	O	O	O	O	O	O	-	-	O	O	O	O
Glenn County																	
Unit No. 1 Sacramento River	1/	X		1.3	-	-	-	P	-	-	-	-	P	-	-	-	P
Unit No. 2 Sacramento River	1/	X		0.1	-	-	-	G	-	-	-	-	G	-	-	-	G
Unit No. 3 Sacramento River	1/	X		0.1	-	-	-	G	-	-	-	-	O	-	-	-	G
Knights Landing Ridge Drainage District																	
Unit No. 1 Knights Landing Ridge Cut	127	X		6.4	O	G	G	O	O	G	O	O	-	G	-	G	G
Unit No. 2 Knights Landing Ridge Cut	127		X	6.2	O	G	G	O	G	G	O	G	-	G	-	G	G
Sacramento River West Side Levee District																	
Sacramento River	130/131	X		50.2	O	O	G	O	G	F	O	O	O	G	-	O	G
Solano County																	
Yolo Bypass	1/	X		0.6	O	G	O	O	G	G	O	-	-	-	-	O	O

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Tehama County Flood Control District																	
Unit No. 1 Deer Creek	1/		X	4.1	O	F	G	G	G	G	G	G	G	F	P	G	G
Unit No. 10 Sacramento River	1/	X		0.7	O	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 11 Sacramento River	1/		X	0.5	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 12 Sacramento River	1/		X	0.6	-	-	-	P	-	-	-	-	G	-	-	-	G
Unit No. 13 Sacramento River	1/	X		0.7	-	-	-	P	-	-	-	-	G	-	-	-	G
Unit No. 14 Sacramento River	1/		X	0.7	-	-	-	G	-	-	-	-	G	-	-	-	G
Unit No. 15 Sacramento River	1/		X	0.1	-	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 16 Sacramento River	1/		X	0.5	-	-	-	F	-	-	-	-	F	-	-	-	F
Unit No. 17 Sacramento River	1/	X		0.7	-	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 18 Sacramento River	1/	X		1.3	-	-	-	F	-	-	-	-	F	-	-	-	F
Unit No. 19 Sacramento River	1/	X		0.3	-	-	-	F	-	-	-	-	G	-	-	-	G
Unit No. 2 Deer Creek	1/	X		1.5	O	F	G	G	G	G	G	G	G	F	P	G	G
Unit No. 20 Sacramento River	1/		X	0.1	-	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 21 Sacramento River	1/		X	0.6	-	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 22 Sacramento River	1/		X	0.6	-	-	-	P	-	-	-	-	P	-	-	-	P
Unit No. 23 Sacramento River	1/	X		0.9	-	-	-	P	-	-	-	-	G	-	-	-	G
Unit No. 24 Sacramento River	1/	X		1.2	-	-	-	F	-	-	-	-	G	-	-	-	G
Unit No. 3 Deer Creek Rock Sites	1/	X	X	1.3	O	-	-	F	-	-	-	-	P	-	-	-	F

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Unit No. 4 Elder Creek	1/		X	4.1	O	G	G	F	F	G	F	G	G	G	-	G	G
Unit No. 5 Elder Creek	1/	X		3.9	O	G	G	F	F	G	G	G	G	G	-	G	G
Unit No. 6 Sacramento River	1/		X	0.5	O	-	-	P	-	-	-	-	F	-	-	-	F
Unit No. 7 Sacramento River	1/	X		0.8	O	-	-	P	-	-	-	-	P	-	-	-	P
Unit No. 8 Sacramento River	1/		X	1	O	-	-	P	-	-	-	-	G	-	-	-	G
Unit No. 9 Sacramento River	1/		X	0.2	O	-	-	P	-	-	-	-	G	-	-	-	G
Yolo County																	
Cache Creek	126	X		0.3	O	G	O	G	G	O	O	O	-	O	-	O	O
Service Area No. 6 Sacramento River	7/127	X		6	O	G	F	G	G	G	G	G	G	G	-	G	G
Maintained by State of California																	
Cache Creek																	
Unit No. 1	126		X	11.8	O	O	F	O	G	G	O	G	O	O	-	O	O
Unit No. 2	126	X		11	O	O	G	O	O	G	O	O	G	O	-	O	O
Unit No. 4				2.3	O	O	O	F	F	G	O	O	O	O	-	O	G
East Interceptor Canal																	
South Levee				3	O	G	F	G	G	G	G	O	-	G	-	G	G

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
East Levee																	
Sutter Bypass	135		X	22.1	O	O	O	O	O	G	G	O	O	O	-	G	O
Yolo Bypass South Levee	123		X	2	O	O	O	O	O	F	O	O	O	O	-	O	O
Fish and Game (Shea)																	
Sacramento River	3/		X	0.3	-	G	O	G	G	G	G	-	G	G	-	-	G
Putah Creek																	
Unit No. 1	119		X	9	O	O	F	O	G	O	O	O	G	O	-	G	G
Unit No. 2	119	X		7.3	O	O	G	O	O	F	O	O	-	O	-	G	O
Sacramento Bypass																	
Unit No. 1	122	X		1.8	O	O	G	O	O	O	G	O	G	O	-	O	O
Unit No. 2	116		X	1.8	O	O	O	O	O	O	O	O	G	O	-	O	O
Sacramento River East Levee																	
Unit No. 1 Sacramento River	2/136/154		X	20.4	O	G	O	O	O	G	G	O	G	O	G	G	G
Unit No. 2 Colusa Bypass	155	X		2.3	O	G	O	O	O	G	O	O	G	O	G	-	O
Unit No. 3 Colusa Bypass	155		X	2.3	O	G	O	O	O	G	O	O	G	O	O	-	O
Unit No. 4 Moulton Bypass	154	X		0.3	O	G	O	O	O	G	O	O	G	O	G	-	O
Unit No. 5 Moulton Bypass	154		X	2	O	G	O	O	O	G	O	O	-	O	G	G	O

2/ Maintenance assumed by A.R.F.C.D. from DWR on 7/1/91.
3/ Part 1 and 2 of U. S. Army Corps of Engineers Manual.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Tisdale Bypass																	
Unit No. 1	156/133		X	4.5	O	G	O	G	O	G	O	O	O	O	-	G	O
Unit No. 2	129	X		4.5	O	G	O	G	O	G	O	O	O	O	-	G	O
Wadsworth Canal																	
Unit No. 1	135		X	4.7	O	G	O	O	O	G	O	O	-	G	G	G	O
Unit No. 2	135	X		4.7	O	G	O	O	O	G	O	O	-	G	O	G	O
West Interceptor Canal																	
South Levee				1.8	O	G	F	O	O	O	G	O	-	G	-	G	G
West Levee																	
Feather River Hamilton Bend	13	X		1.2	O	O	O	G	G	O	O	O	O	O	-	G	O
Feather River Nelson Bend	13	X		0.5	O	G	F	F	F	P	P	O	P	G	-	G	P
West Levee Yolo Bypass																	
Unit No. 1	127	X		2.7	O	O	O	O	G	G	O	O	G	O	-	G	O
Unit No. 2	127	X		1.5	O	O	O	O	G	O	O	O	G	O	-	G	O
Unit No. 3	127	X		1.5	O	O	O	O	O	O	O	O	G	O	-	G	O
Unit No. 4	119/120	X		3.6	O	O	O	O	G	O	O	O	G	O	-	G	O

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0009																	
Sacramento River	111/115	X		19.6	O	O	G	O	G	O	O	O	G	O	-	G	G
No. 0012																	
Colusa Drain	132		X	11.3	O	O	O	O	O	G	O	O	O	O	-	G	O
No. 0013																	
Unit No. 1 Cherokee Canal	1/	X		18.9	O	G	G	O	G	G	O	O	G	G	-	G	G
Unit No. 2 Cherokee Canal	1/		X	23.1	O	G	G	O	G	G	O	O	G	G	-	G	G

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Willow Slough Bypass																	
Unit No. 1	120		X	5.1	O	O	O	O	G	G	O	O	-	O	-	O	O
Unit No. 2	120	X		7.4	O	O	O	O	G	O	O	O	G	O	-	O	O
Unit No. 2A			X	1	O	O	O	O	G	O	O	O	-	O	-	O	O
Unit No. 2B		X		1	O	O	O	O	G	O	O	O	-	O	-	O	O
Maintenance Area																	
No. 0001																	
Sacramento River	6	X		17.1	O	G	G	O	O	G	G	O	G	O	-	G	G
No. 0003																	
Feather River	143	X		5.2	O	O	O	O	O	G	O	O	-	O	-	O	O
No. 0004																	
Sacramento River	9/116		X	3.4	O	O	G	G	G	G	G	O	G	G	-	G	G
No. 0005																	
Unit No. 1 Butte Creek 1	153		X	15.4	O	G	P	O	O	G	G	O	G	G	O	G	G
Unit No. 2 Butte Creek 1	153	X		16.5	O	G	P	G	G	G	G	O	G	G	G	G	G
Unit No. 3 Little Chico Creek Diversion 1	153			1.5	O	-	G	G	-	-	-	-	-	G	-	-	G
No. 0007																	
Feather River	152	X		12.1	O	G	G	O	O	O	O	O	O	G	-	G	G

1/ Has U.S. Army Corps of Engineers manual without number.

TABLE 7. PROJECT LEVEE MAINTENANCE WITHIN SACRAMENTO RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 0015																	
Unit No. 1 Murphy Slough			X	0.8	O	O	G	G	F	O	O	O	G	G	G	-	G
Unit No. 10 Sacramento River	1/		X	0.9	O	-	-	G	-	-	-	-	O	-	-	-	G
Unit No. 2 Sacramento River	1/		X	0.6	O	-	-	G	-	-	-	-	G	G	-	-	G
Unit No. 3A Sacramento River	1/		X	0.5	O	-	-	G	-	-	-	-	G	-	-	-	G
Unit No. 3B Sacramento River	1/		X	0.5	O	-	-	G	-	-	-	-	G	-	G	-	G
Unit No. 3C Sacramento River	1/		X	0.1	O	-	-	G	-	-	-	-	O	-	-	-	O
Unit No. 4 Sacramento River	1/		X	0.6	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 5 Sacramento River	1/		X	0.9	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 6 Sacramento River	1/	X		0.5	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 7 Sacramento River	1/	X		0.8	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 8 Sacramento River	1/		X	0.3	O	-	-	F	-	-	-	-	G	-	-	-	F
Unit No. 9 Sacramento River	1/		X	1	O	-	-	G	-	-	-	-	O	-	-	-	G
No. 0016																	
Feather River	4/148	X		4.1	O	G	G	O	O	G	O	O	O	O	-	G	O
No. 0017																	
Lake County Middle Creek	3/		X		O	O	O	O	O	O	O	O	O	O	O	O	O

1/ Has U.S. Army Corps of Engineers manual without number.

3/ Part 1 and 2 of U. S. Army Corps of Engineers Manual.

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Reclamation District																	
No. 0001																	
Old River	8		X	1.2	O	G	G	G	G	G	G	G	G	G	G	G	G
No. 0017																	
Unit No. 1 French Camp Slough	2		X	1.8	G	O	G	G	G	G	G	G	G	G	-	G	G
Unit No. 2 San Joaquin River	2	X		14.4	G	O	F	F	F	F	G	G	G	G	-	G	G
No. 0404																	
Unit No. 1 San Joaquin River	1	X		2.3	P	G	G	G	G	G	F	G	G	G	-	G	F
Unit No. 2 French Camp Slough	1	X		1.8	P	G	G	G	G	F	F	G	G	G	-	G	F
No. 0524																	
San Joaquin River	7		X	6.3	G	G	P	G	G	F	G	G	G	G	-	G	F
No. 0544																	
Unit No. 1 San Joaquin River	7		X	6.1	O	G	F	G	G	F	F	F	G	G	-	G	G
Unit No. 2 Old River	7	X		4.2	O	G	F	G	F	F	F	P	G	G	-	G	F
No. 1602																	
San Joaquin River	13		X	6.3	G	G	F	G	G	F	G	G	G	F	G	G	F
No. 2031																	
Unit No. 1 Stanislaus River	4		X	7.2	G	G	G	G	G	G	G	G	G	G	G	G	G
Unit No. 2 San Joaquin River	4	X		6	G	G	G	G	G	G	G	G	G	G	G	G	G

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 2058																	
Paradise Cut	10		X	6.7	O	G	G	G	G	G	G	G	G	G	-	G	G
No. 2062																	
Unit No. 1 San Joaquin River	9		X	2.7	G	O	O	O	O	G	O	G	G	O	O	G	O
Unit No. 2 Paradise Cut	9	X		4	G	O	O	O	O	O	O	G	G	G	O	G	O
Unit No. 3 Old River	9		X	5.6	G	O	O	G	O	O	O	G	O	G	O	G	O
No. 2063																	
San Joaquin River	6		X	10.6	O	G	F	G	G	F	G	G	G	F	G	G	G
No. 2064																	
Unit No. 1 San Joaquin River	3	X		5.7	G	G	G	F	G	G	G	F	G	G	-	G	G
Unit No. 2 Stanislaus River	3	X		6.2	G	G	G	F	F	G	G	G	G	G	-	G	F
No. 2075																	
San Joaquin River	3	X		7.5	G	G	O	G	G	G	O	G	O	G	-	G	G
No. 2085																	
Unit No. 1 San Joaquin River	11		X	5.2	G	G	G	G	G	G	G	G	G	F	G	G	G
Unit No. 2 San Joaquin River	11			0.7	G	G	G	G	G	G	G	G	G	G	G	-	G
Unit No. 3 San Joaquin River	11			0.3	G	G	G	G	G	G	G	G	G	G	G	-	G

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 2089																	
Unit No. 1 Old River	8	X		1.5	O	G	G	G	G	G	G	G	G	G	-	G	G
Unit No. 2 Salmon Slough	8	X		1.4	O	G	F	G	G	G	G	G	G	G	-	G	G
No. 2091																	
Unit No. 1 San Joaquin River	6/6A	X		7.6	O	G	O	O	O	G	O	G	O	O	O	O	O
Unit No. 2 San Joaquin River	6A			0.3	O	G	O	O	O	G	O	G	G	G	O	-	O
No. 2092																	
San Joaquin River	5	X		3.8	O	G	O	O	O	G	G	G	G	G	G	G	G
No. 2094																	
Unit No. 1 San Joaquin River	3	X		2.8	O	O	O	O	O	O	O	O	O	O	-	O	O
Unit No. 2 San Joaquin River	3			0.5	O	O	O	O	O	O	O	-	O	O	-	-	O
No. 2095																	
Unit No. 1 Paradise Cut	10		X	1.5	G	G	G	O	O	G	F	G	G	G	G	G	G
Unit No. 2 San Joaquin River	11		X	3.4	G	G	G	O	O	G	F	G	G	G	G	G	G
No. 2096																	
San Joaquin River	3	X		0.17	G	O	O	O	O	O	O	O	-	O	O	O	O
No. 2099																	
San Joaquin River	12		X	2.4	Did Not Inspect; possible decertification.												

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
No. 2100																	
San Joaquin River	12		X	2.7	Did Not Inspect; possible decertification.												
No. 2101																	
Unit No. 1 San Joaquin River	12		X	3.2	O	G	G	P	G	G	G	G	O	G	-	G	G
Unit No. 2 San Joaquin River	12	X		0.3	O	G	G	O	O	G	G	P	G	G	-	-	G
No. 2102																	
San Joaquin River	12		X	1.8	Did Not Inspect; possible decertification.												
No. 2107																	
Unit No. 1 San Joaquin River	9		X	2.4	G	G	G	O	O	G	O	G	G	G	O	G	G
Unit No. 2 Paradise Cut	9	X		1.8	G	G	G	O	O	G	O	G	-	G	O	G	G

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Named District																	
Lower San Joaquin Levee District																	
Unit No. 01 San Joaquin River	2/	X		22.6	O	O	O	O	O	O	O	O	O	O	G	G	O
Unit No. 02A San Joaquin River	2, 3/	X		7.9	O	P	G	O	O	O	P	O	-	G	O	G	F
Unit No. 02B San Joaquin River	2, 3/		X	5.9	O	G	O	O	O	O	O	-	-	O	-	G	O
Unit No. 03 San Joaquin River	2/	X		2.2	O	G	O	O	O	G	O	O	O	G	O	O	O
Unit No. 04 San Joaquin River	2/		X	1.6	O	G	O	O	O	O	O	O	O	O	O	O	O
Unit No. 05 East Side Bypass	2/		X	34.7	O	G	O	O	O	O	O	O	-	O	G	G	O
Unit No. 06 East Side Bypass	2/		X	36.4	O	G	O	O	O	O	O	O	-	O	G	G	O
Unit No. 07 Bear Creek Bypass	2/	X		3.6	O	G	O	O	O	O	O	O	-	O	F	G	G
Unit No. 08 Bear Creek Bypass	2/		X	3.6	O	G	O	O	O	O	O	O	-	O	F	G	G
Unit No. 09 Owens Creek Bypass	2/	X		0.9	O	G	O	O	O	O	O	O	-	O	F	O	G
Unit No. 10 Owens Creek Bypass	2/		X	0.8	O	G	O	O	O	O	O	O	-	O	F	O	G
Unit No. 11 Mariposa Bypass	2/	X		3.3	O	O	O	O	O	O	O	O	O	O	G	O	O
Unit No. 12 Mariposa Bypass	2/	X		3.4	O	O	O	O	O	O	O	F	-	O	G	O	G
Unit No. 13 Ash Slough	2/	X		1.3	O	O	O	O	O	O	O	O	O	O	O	O	O
Unit No. 14 Ash Slough	2/		X	1.3	O	O	O	O	O	O	O	O	O	O	O	O	O
Unit No. 15 Berenda Slough	2/	X		2	O	O	O	O	O	O	O	O	-	G	G	O	O
Unit No. 16 Berenda Slough	2/		X	2	O	O	O	O	O	O	O	O	-	G	G	O	O

2/ Has State Manual in 3 parts.
3/ Units 3, 4, and 5 are non-levied channels and are now listed in Table 15 - Channel Clearance and Condition.

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Unit No. 17A Chowchilla Canal Bypass	2, 3/	X		10.3	O	O	O	O	O	O	O	O	-	O	G	O	O
Unit No. 17B Chowchilla Canal Bypass (LM 2.50 to 8.35)	2, 3/	X		15.3	O	G	G	O	O	O	O	-	-	G	-	-	O
Unit No. 18 Chowchilla Canal Bypass	2/		X	15.3	O	O	O	O	O	O	O	O	-	O	O	O	O
Unit No. 22 East Side Canal	2/		X	5.5	O	G	O	O	O	O	F	G	-	O	G	O	G
Unit No. 23 San Joaquin River	2/	X		10.2	O	G	O	O	O	O	O	O	-	O	O	O	O
Unit No. 24 Chowchilla Canal Bypass	2/		X	8.3	O	G	O	O	O	O	O	O	O	O	O	O	O
Unit No. 25 Salt Slough	2/	X		2.5	O	G	O	G	O	O	O	O	O	G	G	O	O
Madera County Flood Control and Water Conservation Agency																	
Unit No. 1 Ash Slough	1/	X		2.4	O	G	O	G	G	G	G	O	-	O	G	G	G
Unit No. 2 Ash Slough	1/		X	2.1	O	G	O	O	O	O	O	O	-	O	G	G	O
Unit No. 3 Berenda Slough	1/	X		1.6	O	G	O	O	O	O	O	O	-	O	G	O	O
Unit No. 4 Berenda Slough	1/		X	2.3	O	G	O	O	O	O	O	O	-	O	G	O	O
Unit No. 5 Fresno River	1/	X		9.2	O	O	O	O	O	O	G	O	G	O	O	O	O
Unit No. 6 Fresno River	1/		X	9.1	O	O	O	O	O	F	F	O	G	O	O	O	G

1/ Has U. S. Army Corps of Engineers Manual without number.
2/ Has State Manual in 3 parts.
3/ Units 3, 4, and 5 are non-levied channels and are now listed in Table 15 - Channel Clearance and Condition.

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Merced County Stream Group																	
Unit No. 1 Black Rascal Diversion	1/	X		1.6	O	G	G	G	G	G	G	O	G	F	G	G	G
Unit No. 2 Black Rascal Diversion	1/		X	1.9	O	G	O	G	G	G	G	O	-	F	G	G	G
Unit No. 3 Owens Creek Diversion	1/	X		1.4	O	F	G	O	O	P	G	F	G	F	P	G	P
Unit No. 4 Owens Creek Diversion	1/		X	1.4	O	F	F	O	O	P	F	F	G	P	P	G	P

1/ Has U. S. Army Corps of Engineers Manual without number.

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
San Joaquin County Flood Control District	3/																
Unit No. 01 Littlejohn Creek	1/		X	2.9	O	F	O	O	O	O	O	O	-	G	O	O	O
Unit No. 02 Littlejohn Creek	1/	X		3.5	O	F	G	O	O	O	O	O	O	G	O	O	O
Unit No. 06 SPRR Drain	1/		X	0.5	O	G	G	O	G	O	F	O	O	F	O	O	G
Unit No. 07 Bear Creek	1/	X		16.8	O	O	F	G	O	G	O	O	O	G	O	O	G
Unit No. 08 Bear Creek	1/		X	16.5	O	O	F	G	O	G	G	O	G	G	O	O	G
Unit No. 09 Paddy Creek	1/		X	1.5	O	G	O	O	O	O	O	O	O	O	O	O	O
Unit No. 10 Paddy Creek	1/	X		1.4	O	G	O	O	O	O	O	O	O	O	O	O	O
Unit No. 11 North Paddy Creek	1/	X		3.6	O	G	O	O	G	O	O	O	O	G	O	O	G
Unit No. 12 North Paddy Creek	1/		X	3.9	O	G	O	O	O	O	O	O	O	G	O	O	G
Unit No. 13 Middle Paddy Creek	1/		X	1.4	O	G	O	O	O	O	O	O	O	G	O	O	O
Unit No. 14 Middle Paddy Creek	1/		X	1.4	O	G	O	O	O	F	O	O	O	G	O	O	G
Unit No. 15 Mormon Slough	1/	X		25.6	O	G	F	G	O	F	G	G	O	F	O	G	G
Unit No. 16 Mormon Slough	1/		X	23.7	O	G	F	F	F	F	G	O	O	F	O	G	F
Unit No. 17 Potter Creek	1/	X		0.9	O	G	G	F	G	G	F	O	O	F	O	O	F
Unit No. 18 Potter Creek	1/		X	0.9	O	O	O	O	O	O	O	O	O	O	O	O	O

1/ Has U. S. Army Corps of Engineers Manual without number.

3/ Units 3, 4, and 5 are non-levied channels and are now listed in Table 15 - Channel Clearance and Condition.

TABLE 8. PROJECT LEVEE MAINTENANCE WITHIN SAN JOAQUIN RIVER BASIN - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Turlock Irrigation District																	
Gomes Lake Spur Levee (Formerly RD 2091, Unit 2)	6A			0.3	O	G	O	O	O	G	O	G	G	G	O	-	O

TABLE 9. PROJECT LEVEE MAINTENANCE WITHIN MISCELLANEOUS STREAMS BASINS - 2001

Compliance with federal Regulations Governing Maintenance of Flood Protection Works

District or Area	Corps Operations and Maintenance Manual Unit Number	Right Bank	Left Bank	Length In Miles	Readiness for Flood Emergency	Adequate Levee Section and Grade	Adequate Encroachment Control	Control of Growth on Levee/Revetment WS	Control of Growth on Levee/Revetment LS	Rodent Control	Repair of Cracks, Erosion, and Caving	Repair of Gates	Condition of Rock Revetment	Condition of Crown and Roadway	Control of Livestock Pasturing	Condition of Pipes	Overall Ratings and District Maintenance Program
Named District																	
Lake County Flood Control District																	
Unit No. 1A Middle Creek	1/		X	4.2	G	G	G	G	G	O	G	G	O	G	G	G	G
Unit No. 1B Middle Creek	2/		X	3.1	G	F	G	G	G	O	G	G	-	G	-	G	G
Unit No. 2 Middle Creek	3/	X		3.1	G	G	G	G	G	O	G	G	G	G	-	G	G
Unit No. 3 Scotts Creek	3/		X	1.4	G	G	G	G	G	G	G	O	O	G	-	G	G
Unit No. 4 Poge, Alley, and Clover Creek Diversion		X		1.5	G	G	G	G	G	G	G	O	G	G	-	G	G
Unit No. 5 Clover Creek and Clover Creek Diversion			X	1	G	G	G	G	G	G	G	O	G	G	-	G	G
Plumas County																	
Unit No. 1 North Fork Feather River			X	1.9	O	O	O	O	F	O	O	F	O	O	-	O	G
Unit No. 2 North Fork Feather River			X	1.3	O	O	O	O	F	O	O	G	O	O	-	O	G

1/ Unit 1A Levee Mile 0.00-4.20
2/ Unit 1B Levee Mile 4.20-7.32
3/ Has U. S. Army Corps of Engineers Manual without number.

Levee Subsidence
2001

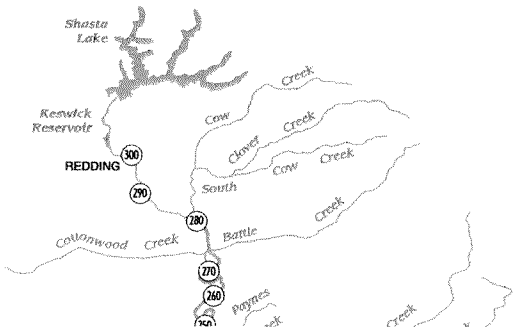
TABLE 10
EXPLANATION OF SUBSIDENCE

Each maintaining agency is notified of the subsidence of levees within its district during each spring and fall joint inspection by DWR Flood Project Inspection Section Area Supervising Inspector and/or the Section Chief. All mileage of subsidence sites will be listed in the Flood Control Project Maintenance Levee Inspection Sheet, DWR Form 167. Each maintaining agency will receive a copy of this inspection sheet at the spring and fall joint inspections. The status of subsidence will be discussed on site during the joint inspection.

TABLE 10. LEVEE SUBSIDENCE - 2001

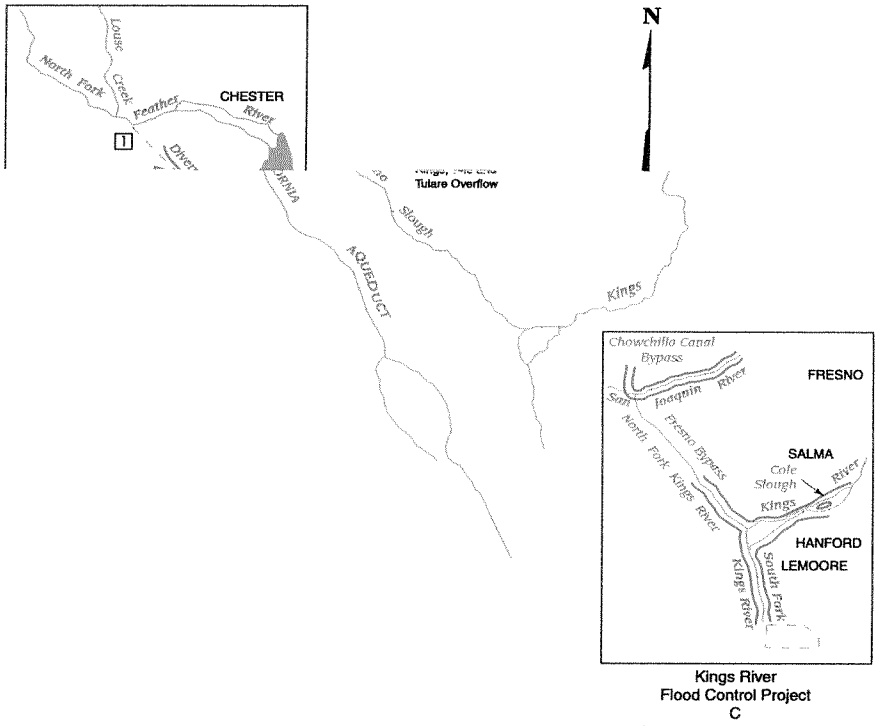
		Location	Status
RD No. 1601			
		Levee Mile 0.51 to 0.58 levee crown	Repaired
		Levee Mile 0.62 to 0.72 levee crown	Repaired
		Levee Mile 0.76 to 0.82 landward shoulder and slope	Repaired
RD No. 2098	Unit 1		
		Levee Mile 6.35 landward slope	Stabilized
		Levee Mile 6.75 to 6.77 levee crown and landward slope	Stabilized
		Levee Mile 6.89 to 6.90 landward slope	Stabilized
		Levee Mile 6.91 to 6.92 landward slope	Stabilized
		Levee Mile 7.12 to 7.15 levee crown and landward slope	Stabilized
		Levee Mile 7.48 to 7.50 water ward shoulder	Active
		Levee Mile 7.55 to 7.77 levee crown and landward slope	Active
		Levee Mile 7.80 to 7.81 landward slope	Stabilized
RD No. 341	Unit 2		
		Levee Mile 8.75 to 9.03 landward slope	Stabilized
		Levee Mile 9.03 to 9.06 levee crown	Repaired
		Levee Mile 9.10 to 9.15 levee crown	Repaired
		Levee Mile 9.18 to 9.23 levee crown	Repaired
RD No. 501	Unit 3		
		Levee Mile 3.0 to 5.0 Levee crown	Active
		Levee Mile 9.24 to 9.74 levee crown	Stabilized
RD No. 900	Unit 2		
		Levee Mile 4.85 to 4.87 levee crown	Repaired
		Levee Mile 4.99 to 5.03 landward slope	Active
		Levee Mile 5.13 to 5.14 landward slope	Repaired
		Levee Mile 5.15 to 5.17 landward slope	Repaired
		Levee Mile 5.31 to 5.33 landward slope	Repaired

Active - reoccurrence at same location
Incipient - new locations of observable activity reported this year
Stabilized - no observable activity reported this year
Repaired - by U.S. Army Corps of Engineers' contract or by maintaining agency



PROJECT LEVEES MAINTAINED BY:

- State of California, Department of Water Resources
- Reclamation, Levee and Drainage Districts and Municipalities
- (200) River Miles
- [5] Flood Control Structures



Kings River
Flood Control Project
C

The Sacramento River and the
San Joaquin River Flood Control System

Flood Control Structures

Plate 3

TABLE 11. FLOOD CONTROL PROJECT STRUCTURES - 2001
SACRAMENTO RIVER BASIN

No.	Structure	Maintaining Agency	Stream	Rating	Remarks
1	North Fork Feather River Diversion & Drop Structures	Plumas County	North Fork Feather River	G	All drop structures are in good condition. The diversion structure was inspected by the Army Corps, Plumas Co. and DWR and found to be in good overall condition.
2	Lindo Channel Diversion Weir	Butte County	Lindo Diversion	G	Several velocity dissipaters are damaged and there are minor joint separations at both abutments.
3	Lindo Channel Control Structure	Butte County	Lindo Channel	G	There is a half inch separation between the south end bulkhead and the structure. The downstream rock and granite skirt is severely damaged.
4	Big Chico Creek Control Structure	Butte County	Big Chico Creek	G	Butte County tested the gate and mechanisms and found them in good working condition.
5	Little Chico Creek Control and Weir Structure	DWR	Little Chico Creek	G	The displacement at the bulkheads and the structure have stabilized. The weir continues to show signs of spalling. The log boom was not in place at the time of inspection.
6	Moulton Weir	DWR	Moulton Bypass	O	
7	Colusa Weir	DWR	Colusa Bypass	O	
8	Tisdale Weir	DWR	Tisdale Bypass	G	Minimal cracks and spalling in structure.
9	Fremont Weir	DWR	Yolo Bypass	G	Moderate cracks and spalling along the overall structure. Previously reported cracks at abutments have stabilized.
10	Sacramento Weir	DWR	Sacramento Bypass	G	Minimal cracks and spalling in structure.
11	Sutter Bypass Pumping Plant No. 1	DWR	Sutter Bypass	O	
12	Sutter Bypass Pumping Plant No. 2	DWR	Sutter Bypass Pumping Plant #2	O	
13	Sutter Bypass Pumping Plant No. 3	DWR	Sutter Bypass Pumping Plant #3	O	
14	Sutter Bypass Weir No. 2 (East Borrow Pit)	DWR	Sutter Bypass Weir #2 (East Borrow Pit)	O	

TABLE 11. FLOOD CONTROL PROJECT STRUCTURES - 2001
SACRAMENTO RIVER BASIN

No.	Structure	Maintaining Agency	Stream	Rating	Remarks
15	Wadsworth Canal Weir No. 4	DWR	Wadsworth Canal Weir #4	O	
16	Butte Slough Outfall Structure	DWR	Butte Slough Outfall Structure	G	The log boom has been removed from the channel.
17	Butte Slough Drainage Structure	DWR	Butte Slough Drainage Structure	P	Could not properly inspect due to heavy vegetation at the inlet and outlet. No apparent maintenance.
18	Knights Landing Outfall Structure	DWR	Knights Landing Outfall Structure	G	Previously reported cracks and displacement have stabilized. The log boom was recently repaired.
19	Nelson Bend Quarry Rock Weir	DWR	Nelson Bend Quarry Rock Weir	P	Heavy vegetation growth exists along the entire length of the weir including large trees. There has been no maintenance for several years.
20	Cache Creek Settling Basin Concrete Weir	DWR	Cache Creek Settling Basin Weir & Drainage Structure	O	
21	Magpie Creek Pumping Plant	Sacramento County	Magpie Creek Pumping Plant	O	
22	American River Pumping Plant No. 1	Sacramento County	American River Pumping Plant #1	O	
23	American River Pumping Plant No. 2	Sacramento County	American River Pumping Plant #2	O	The 3 5/8 inch deflection in the retaining wall next to the stairs has appeared to have stabilized.
24	Elk Slough Inlet Structure	RD No. 999	Elk Slough Inlet Structure	G	Condition of pipe through the levee is unknown.

TABLE 12. FLOOD CONTROL PROJECT STRUCTURES - 2001
SAN JOAQUIN RIVER BASIN

No.	Structure	Maintaining Agency	Stream	Rating	Remarks
25	Mormon Slough Pumping Plant No. 1	San Joaquin County	Mormon Slough	O	
26	Mormon Slough Pumping Plant No. 2	San Joaquin County	Mormon Slough	O	
27	Mormon Slough Pumping Plant No. 3	San Joaquin County	Mormon Slough	O	
28	Duck Creek Diversion Weir and Control Structure	San Joaquin County	Duck Creek	G	Water seeps through the weir at a crack at the left abutment.
29	Paradise Dam	None	Paradise Cut	G	Small willow trees on the upstream side of the structure.
30	Wetherbee Lake Pumping Plant and Navigation Gate	RD No. 2096	San Joaquin River	O	
31	Gomes Lake Pumping Plant District	Turlock Irrigation	San Joaquin River	O	
32	RD No. 2063 Pumping Plant	RD No. 2063	San Joaquin River	F	Overall maintenance of the structure is fair. Debris covers the upper third of the trash rack. Trees at the discharge end have not been removed.
33	Black Rascal Creek Drop Structure	Merced County	Black Rascal Creek	O	
34	Owens Creek Siphon Structure	Merced County	Owens Creek	G	Heavy weed and tule growth at the upstream and downstream ends of the structure.
35	Ash and Berenda Slough Control Structures	Madera County	Ash Slough	O	
36	Fresno River Diversion Weir	Madera County	Fresno River	G	Debris accumulation at structure, moderate tule and willows upstream and downstream.
37	Bear Creek Diversion Structure	LSJLD	Bear Creek	G	Damage to the left bank upstream of the structure.
38	Owens Creek Control Structure	LSJLD	Owens Creek	G	The structure shows signs of aging but is well maintained.

TABLE 12. FLOOD CONTROL PROJECT STRUCTURES - 2001
SAN JOAQUIN RIVER BASIN

No.	Structure	Maintaining Agency	Stream	Rating	Remarks
38A	Owens Creek Overflow Structure	LSJLD	Owens Creek	F	The concrete apron on the discharge side of the structure is damaged as well as the downstream side.
39	San Joaquin River Structure/Sand Slough Structure	LSJLD	San Joaquin River	O	
40	Fresno River Drainage Structure	LSJLD	San Joaquin River	G	Moderate growth upstream and downstream.

TABLE 13. FLOOD CONTROL PROJECT STRUCTURES - 2001
MISCELLANEOUS STREAMS BASINS

No.	Structure	Maintaining Agency	Stream	Rating	Remarks
41	Ash Slough Drop Structure No. 1	LSJLD	Ash Slough Drop Structure #1	O	
42	Ash Slough Drop Structure No. 2	LSJLD	Ash Slough Drop Structure #2	O	
43	Ash Slough Drop Structure No. 3	LSJLD	Ash Slough Drop Structure #3	G	Sand is covering a portion of the stilling basin and velocity dissipaters.
44	Ash Slough Drop Structure No. 4	LSJLD	Ash Slough Drop Structure #4	G	The seasonal sand dam prevents the inspection of upstream side of the structure.
45	Mariposa Bypass Drop Structure	LSJLD	Mariposa Bypass Drop Structure	F	4 inch separation in left wing wall.
46	Mariposa Bypass Control Structure	LSJLD	Mariposa Bypass Control Structure	G	Some separation at expansion joints.
47	Eastside Bypass Drop Structure No. 1	LSJLD	Eastside Bypass Drop Structure #1	O	
48	Eastside Bypass Drop Structure No. 2	LSJLD	Eastside Bypass Drop Structure #2	G	Some spalling along stilling basin.
49	Eastside Bypass Control Structure	LSJLD	Eastside Bypass Control Structure	G	There is a large scour hole downstream of the gates.
50	Chowchilla Canal Bypass Control Structure	LSJLD	Chowchilla Canal Bypass Control Structure	O	
51	San Joaquin River Control Structure	LSJLD	San Joaquin River Control Structure	O	
52	Clover Creek Division Structure	Lake County FCD	Clover Creek Diversion	F	Lake County has removed all obstructions upstream and downstream, but has not cleaned out all pipes.
53	Middle Creek Pumping Plant	Lake County FCD	Middle Creek Pumping Plant	G	The displacements previously reported appear stable. Sutter Maintenance Yard has repaired Pump #1.
54	Highland Canal Diversion Weir and Drainage Structure	Lake County FCD	Middle Creek	G	Some tule growth at discharge end of structure.

TABLE 14. CHANNEL CLEARANCE AND CONDITION - 2001
SACRAMENTO RIVER BASIN

Stream	Maintaining Agency	Brush Mechanically Recleared (acres)	Brush Chemically Controlled (acres)	Sediment Removed (cubic yards)	Overall Condition
American River	DWR-S.M.Y.				G
Arcade Creek	DWR-S.M.Y.	0	5		G
Bear River	DWR-S.Y.	2			G
Big Chico Creek	DWR-S.Y.				G
Big Chico Diversion	DWR-S.Y.		2		G
Butte Creek	DWR-S.Y.	15			G
Butte Slough (to Mawson Bridge)	DWR-S.Y.				F
Cache Creek	DWR-S.M.Y.				G
Cache Creek Settling Basin	DWR-S.M.Y.	24	12		G
Cherokee Canal	DWR-S.Y.	40		3000	G
Colusa Basin Drain	DWR-S.Y.				F
Colusa Bypass	DWR-S.Y.				G
Deer Creek	DWR-S.Y.				F
Dry Creek (Bear River)	DWR-S.Y.				F
East and West Interceptor Canal	DWR-S.Y.	1	1		G
Elder Creek	DWR-S.Y.				F
Feather River	DWR-S.Y.	185			G
Honcut Creek	DWR-S.Y.				G
Knights Landing Ridge Cut	DWR-S.M.Y.		52		G
Linda Creek	DWR-S.M.Y.		8		G
Lindo Channel	DWR-S.Y.				F
Little Chico Creek	DWR-S.Y.			220	G
Magpie Creek	DWR-S.M.Y.	4	5		G
McClure Creek	Tehama	7	5	0	G
Mud Creek	DWR-S.Y.	10	10		G
Natomas Cross Canal	DWR-S.M.Y.	5	2		G
Natomas East Main Drain	DWR-S.M.Y.	0	15		G
Putah Creek	DWR-S.M.Y.	0	3		G
Sacramento Bypass	DWR-S.M.Y.	4	5		G
Sacramento River	DWR-S.Y.				G
Salt Creek	Tehama	5	4	0	G
Sutter Bypass (Mawson Bridge-South)	DWR-S.Y.	180			G
Sycamore Creek	DWR-S.M.Y.	1.5	0	0	G
Tisdale Bypass	DWR-S.Y.	120			G
Wadsworth Canal	DWR-S.Y.				G
Western Pacific Interceptor	DWR-S.Y.	0.5			F
Willow Slough	DWR-S.M.Y.	5	2		G
Yolo Bypass	DWR-S.M.Y.	6	4		G
Yuba River	DWR-S.Y.				G
	SUBTOTAL	***615.0***	***135.0***	***3,220.0***	

S.M.Y. = Sacramento Maintenance Yard
S.Y. = Sutter Maintenance Yard

TABLE 15. CHANNEL CLEARANCE AND CONDITION - 2001
SAN JOAQUIN RIVER BASIN

Stream	Maintaining Agency	Brush Mechanically Recleared (acres)	Brush Chemically Controlled (acres)	Sediment Removed (cubic yards)	Overall Condition
Ash Slough	Madera County	10	10	5000	G
Ash Slough	LSJLD3/	0	0	0	G
Bear Creek (Merced County)	MID	33	45		O
Bear Creek (Merced County)	LSJLD1/	0	1	0	G
Bear Creek (San Joaquin County)	SJCFCD2/	96.5	405	1544	G
Berenda Slough	LSJLD	0	0	0	G
Berenda Slough	Madera County	10	10		G
Black Rascal Creek	MID				O
Black Rascal Creek Diversion	MID	22			O
Burns Creek	MID				F
Canal Creek	MID	51	0	0	G
Chowchilla Bypass	LSJLD	0	7	0	G
Chowchilla River	Madera County	20	10		G
Duck Creek Diversion, Unit 5	SJCFCD	0	40	0	G
Eastside Bypass	LSJLD	0	20	1000	G
French Camp Slough	None				G
Fresno River	Madera County	50	15	15000	O
Littlejohn Creek, Unit 3, 4	SJCFCD	30.5	720	12445	G
Mariposa Bypass	LSJLD	0	3	0	G
Mariposa Creek	MID	40		1150	G
Miles Creek	MID	12		4693	G
Mormon Slough	SJCFCD	40.5	335	990	G
North Littlejohn Creek	SJCFCD	5	0	0	F
Owens Creek	MID	10			F
Owens Creek	LSJLD	0	1	0	G
Owens Creek Diversion	MID	15			F
Paddy Creek Group	SJCFCD	12	70.5	0	G
Paradise Cut	None				G
San Joaquin River (Chowchilla Bypass to Gravelly Ford)	LSJLD	0	20	500	F
San Joaquin River (Merced River to Mendota Dam)	LSJLD	0	0	400	P
San Joaquin River (Mendota Dam to Chowchilla Canal Bypass)	None				P
San Joaquin River (Merced River to Mossdale)	None				P
Stanislaus River	None				F
	SUBTOTAL	***457.50***	***1,712.5***	***42,722.0***	

1/ MID = Merced Irrigation District
2/ SJCFCD = San Joaquin County Flood Control District
3/ LSJLD = Lower San Joaquin Levee District

TABLE 16. CHANNEL CLEARANCE AND CONDITION - 2001
MISCELLANEOUS STREAMS BASINS

Stream	Maintaining Agency	Brush Mechanically Recleared (acres)	Brush Chemically Controlled (acres)	Sediment Removed (cubic yards)	Overall Condition
Alley Creek	Lake County FCD	4	2		G
Alonzo Drain	Fairfield-Suisun Sew				G
Ash Creek	Adin CSD	1		25	G
Clover Creek	Lake County FCD	5	1	700	G
Clover Creek Diversion	Lake County FCD	13	5		G
Dry Creek	Adin CSD	1		50	G
Laurel Creek Diversion	Fairfield-Suisun Sew				G
Ledgewood Creek	Fairfield-Suisun Sew				G
McCoy Creek	Fairfield-Suisun Sew				G
Middle Creek	Lake County FCD	53	13	1000	G
Poge Creek	Lake County FCD	2	1		G
Scotts Creek	Lake County FCD	11	3		G
Truckee River	Placer County				G
Union Avenue Diversion	Fairfield-Suisun Sew				G
	SUBTOTAL	***90.0***	***25.0***	***1,775.0***	
	GRAND TOTAL	***1,162.5***	***1,872.5***	***47,717.0***	

N

Shasta Lake

REDDING

RED BLUFF

SACRAMENTO RIVER

Lake Oroville

OROVILLE

Lake Tahoe

Folsom Lake

SACRAMENTO

STOCKTON

SAN FRANCISCO

SAN JOAQUIN RIVER

Millerton Lake

Pine Flat Lake

Kings River

FRESNO

PACIFIC OCEAN

Crown Width

Less than 20 feet

20 feet to 30 feet

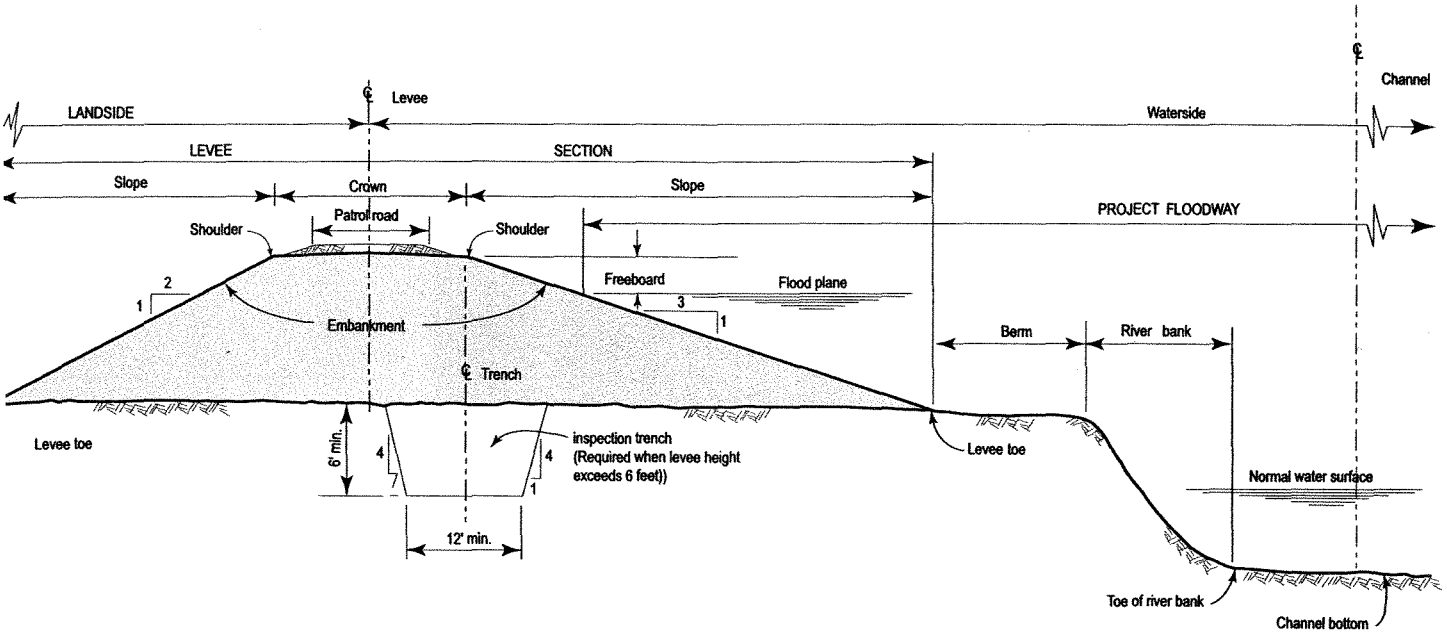
30 feet or more

Plate 4

The Sacramento River and the
San Joaquin River Flood Control System

Crown Width of Sacramento-San Joaquin Flood Control Project Levees

Project Levee Standards and Terminology



TYPICAL FLOODWAY
LOOKING DOWNSTREAM
Not to Scale

MINIMUM DIMENSIONS
OF STANDARD LEVEE SECTIONS

ITEM	MAIN RIVER CHANNELS	MAJOR TRIBUTARIES	MINOR TRIBUTARIES	BY PASSES
CROWN WIDTH	20"	20'	12'	20'
LAND SLOPE	1 on 2	1 on 2	1 on 2	1 on 2
WATER SLOPE	1 on 3	1 on 3	1 on 3	1 on 3
FREEBOARD	3' (1)	3'	3'	4' to 6'
PATROL ROAD WIDTH	12	12'	10'	12'

NOTE (1) 5 FEET ON MAIN CHANNEL BELOW CACHE SLOUGH (SACRAMENTO RIVER)

Plate 5

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