Stanislaus Operation Group (SOG)
Meeting Notes
Date: 01/20/10 **Time:** 2:00 pm to 4:15 pm
Location: CVO Conference Room

Attendees:

Liz Vasquez	BOR – CCAO	EVASQUEZ@USBR.GOV
Rob Skordas	BOR – CCAO	RSKORDAS@USBR.GOV
Liz Kiteck	BOR – CVO	EKITECK@USBR.GOV
Randi Field	BOR – CVO	RFIELD@USBR.GOV
Paul Fujitani	BOR – CVO	PFUJITANI@USBR.GOV
John Hannon	BOR – MP	JHANNON@USBR.GOV
Tim Heyne	CDFG	THEYNE@DFG.CA.GOV
J.D. Wikert	FWS	JOHN_WIKERT@FWS.GOV
Nick Hindman	FWS	NICK.HINDMAN@FWS.GOV
Roger Guinee (Phone)	FWS	ROGER_GUINEE@FWS.GOV
Rhonda Reed	NMFS	RHONDA.REED@NOAA.GOV
Barb Byrne	NMFS	BARBARA.BYRNE@NOAA.GOV
Garwin Yip	NMFS	GARWIN.YIP@NOAA.GOV
Loi Tran	DWR - Operations	LTRAN@WATER.CA.GOV
Greg Wilson (Phone)	SWRCB	

Handouts

- Draft Stanislaus Operations Group Charter – December 17, 2009 version
- Draft Memo of Agreement - December 17, 2009 version
- Summary of how water year types are defined and updated in Reclamation's IPO and NMFS BO – Prepared by NMFS January 20, 2010
- Operations and Temperature Summary for New Melones and Lower Stanislaus River – Prepared January 20, 2010

Stanislaus Operations Group (SOG) Organization
Expectations – Charter and MOA
Meetings – Scheduling, Calling, and Structure
Communication – Website and/or Listserve?

SOG OVERVIEW AND PURPOSE
The group tried to answer the question 'what is the purpose of the SOG?'

Responses included:
-- The SOG is a tool which allows both NMFS and Reclamation to hear advice and recommendations from several different agencies at the same time. The SOG has the opportunity to discuss upcoming operations in relations to river conditions. The SOG would then inform the Water Operations Management Team (WOMT) on SOG discussions especially if a consensus of the SOG member agencies is not achieved.

--SOG's main purpose is to fulfill implementation of the Reasonable and Prudent Alternative (RPA) from the Central Valley Project/State Water Project OCAP Biological Opinion (BO). The creation of the SOG was indicated in the RPA. It would then follow that the main purpose of the SOG group would be to

implement the BOs. In particular the SOG group will have utility in recommending timing and the tuning of RPA Action III.1.3 and Action III.1.2 which describe Stanislaus flows and temperature. Other RPAs could be addressed at more of a strategic and planning level in the SOG. Also SOG teams could be created at a later date to address in more detail other opportunities related to the RPAs such as stream restoration or fishery work.

A concern was raised that the group might have too broad a purpose, and that the group should think about the focus of the SOG activities. Does the group direct fishery management type activities or river restoration?

It was suggested that the SOG meeting agenda mimic the RPA actions described in the BO as a way to help maintain focus. This suggestion was acceptable to the group.

Decision – Focus SOG group activities on RPA implementation and structure future agendas to reflect RPA actions.

STAKEHOLDER PARTICIPATION

The group needs to decide how to coordinate with stakeholders. Many may wish to be part of the SOG.

One model the SOG could use is the American River Group (ARG). The ARG team members include a similar set of agencies but the public is allowed to attend and comment on the agency discussions. The draft charter includes language that the SOG meetings are open to the public. Reclamation suggested modeling the SOG after the ARG group and inviting stakeholders to participate in SOG meetings.

Several team members indicated that, because ARG stakeholders tended to be rather technical, the ARG model for public involvement may not be an appropriate model to use for SOG. SOG stakeholders are likely to include attorneys representing plaintiffs of lawsuits (recent, current, or potential) filed against member agencies, thus litigation concerns could have a chilling effect on discussions, rather than helping to implement RPA actions. The SOG members preferred that the SOG be a space where agencies could communicate more openly.

Was noted that if the SOG meeting could be kept on Wednesdays, the DAT call is the next day. The DAT calls would permit SOG to have a place to dialog with other Stanislaus stakeholders. In response to a question about the DAT calls, it was explained that the DAT calls provided an opportunity for the public to receive and discuss information regarding fish numbers, operations, etc.

Because the DAT call is Delta Focused and may have limited time to devote to Stanislaus issues, may not be practical to include Stanislaus operations on the DAT agenda.

Members interested in inviting stakeholders to participate in the group rather than to be pressured into including others later. However the Reclamation representatives acknowledged the value of getting the SOG group operational and organized before including additional interests.

Regardless of membership decisions, SOG meeting discussions should be transparent. The group needs to have a process to receive information from other interested parties and should ensure that the minutes are available to the public. A process should be in place for outside agencies to be allowed to be included on the SOG agenda by request to present information or research.

Other options for reaching out to stakeholders were discussed, including quarterly or semi-annual meetings. It was noted that stakeholder interest was especially high during VAMP and a meeting that includes stakeholders during that time would be useful.

Agenda Item for next meeting - Consensus, on when or if stakeholder meetings were to be held, was not achieved at the meeting. This item needs to be raised at a future SOG meeting and the charter needs to reflect the group's decision.

Decision – Meeting summaries and SOG advice to NMFS/WOMT will be posted publicly and to memorialize SOG discussions and advice. The SOG meeting summaries need to be available in a timely way to keep interested parties informed on Stanislaus River operations issues. SOG will continue discussion of how to implement public outreach.

NMFS is able to post SOG notes and advice on their OCAP website (URL forwarded to the group on 1/21: http://swr.nmfs.noaa.gov/ocap/sog.htm.) Reclamation may later assume the hosting duties.

Decision – On a trial basis SOG will utilize the NMFS website to disseminate information. The website would include SOG meeting summaries and advice and contact information for representatives of SOG member agencies.

SOG E-MAIL COMMUNICATION

Other organizations use a listserve -- would there be interest in establishing a listserve for SOG? There was a consensus that a website would be sufficient for distributing notes and advice. The mailing list for SOG includes individuals beyond the official agency representative to SOG (but not outside the agencies) and the group discussed ways to manage the e-mail distribution list.. Does everyone on the list want to receive SOG e-mail? Question was asked as to who are the official team members versus those that wish to remain in the loop.

Action Item – Liz will send out the mailing list to the group. If the group knows of anyone who needs to be added or wants to be removed please let her know.

SOG DRAFT CHARTER & MOA

Reclamation has drafted a charter and MOA to clarify the roles and responsibilities of the SOG. The charter came from two main sources: a draft charter for the ARG group and from language in the RPA. Liz requested that all the team members review the draft documents and submit edits by February 12.

Was noted that the Charter covered operations issues well but didn't include the complete range of RPA actions.

Action Item – SOG Team Members should review charter and MOA and submit edits by February 12.

POSSIBLE ADDITIONAL SOG MEMBER AGENCIES

It was suggested that Tri-Dam and the Army Corps of Engineers (Corps) were possible additional members for future consideration, since they would be likely partners in activities described in the RPA actions such as restoration activities.

Decision – Consensus that including additional member agencies should wait until the group is more established.

CONSENSUS PROCESS

The draft Charter describes the group as working by consensus. Does consensus mean lack of objections or agreement with a decision? The two definitions can mean very different processes.

Since some meeting attendees may not be official SOG representatives, is it a consensus of the official team members?

Decision – The group raised no objections to defining consensus as lack of objections to a decision from any attending agency employee.

Decision –Monthly meetings will be scheduled for every 3rd Wednesday. Next meeting is scheduled for Wednesday, February 17, 2010 at 2:00 p.m. Meetings will continue at CVO for the next couple months but the eventual plan is to rotate meeting location.

Action Item – Liz needs to get a conference call number for SOG meetings.

TIMELINES

Was noted that the draft charter did not bring forward timelines from the BO that Reclamation did not think it could meet. For example the meeting summary would be difficult to turn around in 24 hours.

NMFS explained that that the BO deadline was meant to have advice from the SOG written up in a timely manner in order to be able to act promptly on that advice. If too long a time lapses between SOG advice and a determination/decision/concurrence (whether or not through the WOMT process), the operational opportunity may be lost. Draft advice would be directed at certain issues and could probably be turned around quickly. NMFS would recommend that the charter include 24 hours turnaround time for presenting advice to WOMT.

The group discussed what and who would present at WOMT.

Decision (TO BE PRESENTED AT WOMT) – It was decided that if SOG has no advice on operations then there is no need to speak to WOMT. The meeting summaries will list items to be presented to WOMT. It was decided that Liz Vasquez as the SOG facilitator should make presentations and reports when necessary to maintain continuity between the two groups.

Stanislaus Operations Summary

-Pulse Flow Jan and Feb
-Water Year Types and Forecasts

Randi Field - Presented the Operational Summary.

It was recommended that a webpage be available with hyperlinks to reservoir information.

Action Items - Randi Field will put together a list of links.

Reclamation reported on current and expected operations. Water quality and flow requirements at Vernalis may require an increase in Stanislaus flow. This could affect pool storage and long term calculations regarding water availability.

Decision - There will be a coordination call at the end of January B2IT on 1/28. During the coordination call the SOG will discuss the scheduling of the 3 day pulse flow in February called for in the NMFS BO.

NMFS presented a handout that detailed several places where the BO and the IPO differed. Reclamation is currently operating under an IPO Water Supply Parameter (WSP) "dry year", however the exceedence forecast and water year type classification used in the BO modeling differs from that used in the IPO year type determination.

In the models used to develop the RPA, NMFS used the 50% exceedance forecast to calculate the IPO WSP and a different water year type classification table. Reclamation uses the 90% exceedence forecast and the IPO established water year classifications.

The point was made that it benefits neither fish nor water users to draw down New Melones unnecessarily. Maintaining flexibility between years is important to everyone.

The group discussion brought into focus that a process on deciding year type and which forecast to use needed to be discussed further. The group as a whole wanted to educate themselves on what operations looked like in a typical year and to walk through several Stanislaus flow scenarios.

Action Item –Final recommendation of the group was to hold an education forum to review a couple past water years. Liz Vasquez, Randi Field, and Barb Byrne need to get together and organize. Compare 50% versus 90% to determine water availability in a known year and see how things compare.

AGENDA
Stanislaus Operations Group
January 20, 2010
Central Valley Operations Office, 3310 El Camino Avenue, Room 300, Sacramento, CA 95821
2:00 PM to 3:30 PM
Telecon Number 1-866-718-0082
Participant Code #2620147

Introductions

Stanislaus Operations Summary

- -Pulse Flow Jan and Feb
- -Water Year Types and Forecasts

Stanislaus Operations Group (SOG)

- -Expectations
  - Charter and MOU
- -Meetings
  - Scheduling and Calling
  - Structure
- -Communication
  - Website
  - Listserve

MP-748 (6/72)

Meeting Attendance Record
U.S. Bureau of Reclamation, Mid-Pacific Region

Date: 1/20 Time: 2:00pm Place: CVO

Subject of Meeting: SOG Mtng

NAME	ORGANIZATION	ADDRESS
Liz Vasquez	CCAO-BOR	(Street) e.vasquez@usbr.gov (City/State)
Rob Skordas	CCAO-BOR	(Street) rskordas@usbr.gov (City/State)
Liz Kiteck	USBR - CVO	(Street) ekiteck@usbr.gov (City/State)
Randi Field	USBR - CVO	(Street) rfield@usbr.gov (City/State)
Paul Fujitani	USBR - CVO	(Street) pfujitani@usbr.gov (City/State)
Tim Heyne	CDFG	(Street) theyne@dfg.ca.gov (City/State)
John Hannon	USBR	(Street) jhannon@usbr.gov (City/State)
J.D. Wikert	FWS	(Street) john_wikert@fws.gov (City/State)
Nick Hinsman	FWS	(Street) Nick_hinsman@FWS.gov (City/State)
Rhonda Reed	NMFS	(Street) Rhonda.Reed@NOAA.gov (City/State)
Barb Byrne	NMFS	(Street) barbara.byrne@noaa.gov (City/State)

GPO 792-493

MP-748 (6/72)

Meeting Attendance Record
U.S. Bureau of Reclamation, Mid-Pacific Region

Date: 1/20/10 Time: 2:00 PM Place: CVO

Subject of Meeting: SOG MEETING

NAME	ORGANIZATION	ADDRESS
GARWIN YIP	NMFS	(Street) GARWIN.YIP@NOAA.GOV (City/State)
Loi TRAN	DWR - operations	(Street) ltran@water.ca.gov (City/State)
Roger Guinee	FWS (phone)	(Street) roger_guinee@fws.gov (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)
		(Street) (City/State)

GPO 792-493

STANISLAUS OPERATIONS GROUP CHARTER AND ORGANIZATION

1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this charter is to describe the structure, responsibilities, and procedures of the Stanislaus Operations Group (SOG). The purpose, membership, and process for this interagency group are also described.

1.2 BACKGROUND

The Stanislaus River is a significant resource of considerable interest to fishery management agencies, the public, and Reclamation. The United States Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), California Department of Fish and Game (CDFG), and State Water Resource Control Board (SWRCB), are agencies with trust responsibilities for fishery and water resources in the Stanislaus River. Reclamation is responsible for operating the East Side Division which includes New Melones Dam and Powerplant. Tri-Dam Project owns and operates Donnells and Beardsley Dams and Reservoirs upstream of New Melones Reservoir and Tulloch Dam and Reservoir downstream of New Melones Reservoir. Oakdale Irrigation District and South San Joaquin Irrigation District own and operate Goodwin Dam and Reservoir located downstream of Tulloch Dam. The East Side Division is operated to provide flood control, irrigation, power generation, general recreation, water quality, and fish and wildlife enhancement[1].

In June 4, 2009, the NMFS issued its Biological Opinion on the Long-Term Operations of the Central Valley Project and State Water Project (NMFS BiOp). The NMFS BiOp included the requirement that Reclamation create a technical team whose function is "to make recommendations for adjusting operations to meet contractual obligations for water delivery and minimize adverse effects on listed anadromous fish species"[2]. The SOG is the technical group to make recommendations on issues related to fisheries and water resources on the Stanislaus River.

2.0 PURPOSE OF THE STANISLAUS OPERATIONS GROUP

2.1 MISSION STATEMENT

The mission of the SOG is "to gather and analyze information, and make recommendations, regarding adjustments to water operations within the range of flexibility prescribed in the implementation procedures"[3] for the Stanislaus River and for the operation of the East Side Division as a unit of the overall CVP which is consistent with all relevant laws, regulations, and standards including the NMFS BiOp. Reclamation maintains its authority and responsibility for

[1] PL 78–534 and PL 87-874
[2] NMFS 2009, 581.
[3] NMFS 2009, 581.

operations of the East Side Division complex. The SOG has no authority to make operational decisions.

2.2 OBJECTIVES

The objectives of the SOG are to:

- Provide a forum for real-time operational flexibility implementation of the alternative actions defined in the NMFS BiOp for the Stanislaus River and for clarification of decision-making processes[4];
- Provide direction and oversight to ensure that the East Side Division actions contained in the NMFS BiOp are implemented, monitored for effectiveness and evaluated[5];
- Coordinate with Reclamation to prepare and submit an annual summary of the status of Stanislaus River actions to NMFS[6];
- Provide information and data to Reclamation to develop an operations strategy that maintains minimum base releases which provide acceptable steelhead habitat for all life history stages and incorporates habitat maintaining geomorphic flows while meeting other project purposes[7];
- Provide advice to Reclamation to develop an operations strategy to achieve floodplain inundation flows for steelhead juvenile rearing habitat[8]; and
- Cooperate with Reclamation to develop a list of projects to improve habitat values of freshwater migratory habitat in the Stanislaus River[9].

The SOG may also provide a forum that serves other needs for the Stanislaus River stakeholders such as:

- Review physical, biological, and ecological status of the Stanislaus River aquatic resources; and
- Provide public outreach and opportunity for discussion in a public forum.

3.0 MEMBERSHIP

The SOG consists of representatives from Reclamation, USFWS, NMFS, CDFG, SWRCB, and DWR. Other agencies may be added to the SOG provided existing agencies approve of the membership and the new agency agrees to the provisions in this group charter.

3.1 SPONSOR

Reclamation will serve as the SOG sponsor and designated leader. Reclamation will be responsible for facilitating meetings and maintaining the meeting record, with input from the

[4] NMFS 2009, 620.
[5] NMFS 2009, 620.
[6] NMFS 2009, 620
[7] NMFS 2009, 622-623.
[8] NMFS 2009, 627
[9] NMFS 2009, 627.

SOG in accordance with SOG procedures; disseminating operational data (flow and water temperature); providing an operations outlook; providing technical expertise as needed; conducting public outreach related to the operations of New Melones Reservoir; preparing summaries of operational data; and reporting relevant monitoring data and research results produced by Reclamation.

3.2 MEMBER AGENCIES

The USFWS, NMFS, CDFG, CVWQCB, and DWR will be the Member Agencies. The Member Agencies will be responsible for representing their respective agencies at all meetings; participating in the development of operational recommendations; reviewing and commenting on the Operations Outlook; assessing the biological effects of changes related to proposed operations and recommending changes to those operations; participating in public outreach; providing technical expertise as needed; preparing summaries of biological monitoring and research activities conducted by their respective agencies; reviewing and commenting on biological sections of reports; and participating in the preparation of the annual reports as required by providing the assessment of biological effects associated with operations during the previous year. Each Member Agency will designate an individual to represent its interests on the SOG and ensure that the responsibilities of their respective agencies are met.

4.0 PROCESS AND PROCEDURES

4.1 REGULARLY SCHEDULED AND OTHER MEETINGS

The SOG will hold regularly scheduled meetings and a regular meeting schedule will be established at the beginning of each calendar year. Regularly scheduled meetings will be open to the public. The Reclamation may reschedule a meeting, or call a special meeting, with at least three days notice, or on request of NMFS or any two or more group members[10]. The group may meet telephonically if circumstances warrant.

4.2 AGENDA

A typical agenda for a regularly scheduled meeting of the SOG will include, but not be limited to, reviews of the current biological and hydrologic conditions, forecasted operations, and other special studies or events (e.g., Annual Report), followed by discussion to identify biological issues or concerns, and to formulate recommendations related to operations of New Melones Reservoir.

4.3 PUBLIC INPUT

Members of the public and affected agencies may comment on matters under consideration by the SOG, and the SOG will consider public comments in its deliberations. The public includes other agencies, individuals, or organizations with an interest in the activities of the SOG and Stanislaus River, or whose interest may be affected by operation of the East Side Division. The public may attend SOG meetings as desired, provide technical input to issues relevant to project

[10] NMFS 2009, 582.

operations and biological resources, articulate special interest in or need for specific hydrologic conditions, report on their independent research activities, and coordinate in-river activities.

4.4 REGULAR MEETING NOTES AND SUPPORTING INFORMATION

Meeting notes summarizing the issues considered, recommendations made, and key information will be prepared by Reclamation and reviewed by the Member Agencies. The draft meeting notes will be made available to the Member agencies within two days of the SOG meeting and final meeting notes made available to members and the public as soon as practicable[11]. Supporting documentation and other information used at SOG meetings also will be made available to all meeting participants as soon as practicable following the meeting.

4.5 ANNUAL REPORT

Reclamation will take the lead in the preparation of an annual summary report of the status of Stanislaus River actions to NMFS which meets requirements set forth in the NMFS BiOp. This summary may include the notes from SOG meetings, description, and evaluation of Stanislaus River actions taken and effects during the previous calendar year.

4.6 OPERATIONAL DECISION MAKING

Reclamation maintains its authority and responsibility for operations of the East Side Division complex. The SOG has no authority to make operational decisions.

SOG Recommendations

All recommendations to be presented to Reclamation by the SOG will be vetted and resolved through the decision process described in this document. The Member Agencies will seek to reach consensus on all recommendations to be provided to Reclamation. Reclamation and the Member Agencies will consider all known factors that may require additional discussion of the recommendation outside of the SOG. The SOG shall use the decision-making process described in the NMFS BiOp[12].

> After a technical team advises that an operational action should be initiated, changed, suspended, or terminated, consistent with the implementation procedures specified for actions in the NMFS BiOp, the group leader shall provide to NMFS a biological rationale.[13] NMFS shall determine whether the proposed action is consistent with the implementation procedures in the NMFS BiOp. If NMFS determines that the proposed action is consistent with the implementation procedures, then it avoids jeopardy to listed

[11] NMFS specified that the meeting notes should be submitted to the SOG members within two day of a SOG meeting. NMFS 2009, 582.
[12] NMFS 2009, 582-583.
[13] Reclamation will provide a biological rationale as soon as practicable; NMFS specified that the biological rationale should be submitted to NMFS within one day of the SOG recommendation.

species or adverse modification of critical habitat. In the absence of a need for such further discussion, Reclamation will implement an operational decision(s) consistent with the SOG consensus.

If there is no consensus, or if Reclamation and/or the Member Agencies identify the need for additional discussion outside of the SOG, the matter will be referred to the Water Operations Management Team (WOMT) (or a functionally equivalent group), as appropriate. Both the technical team's advice and NMFS' recommendation shall be presented to the WOMT for discussion and concurrence. If there is consensus on a recommendation from WOMT, Reclamation will implement the operational decision(s) accordingly. If no consensus is reached by WOMT, the workgroup leader shall convey the options and summary of the technical discussion to NMFS for consideration. NMFS will make a recommendation for action within the procedural NMFS BiOp. NMFS will present its recommendations to the WOMT for discussion and concurrence. Reclamation will inform the SOG of the operational decision(s) through the normal reporting mechanisms and discussion of the decision(s) will take place at the next regularly scheduled meeting of the SOG.

If the recommended action will affect species within the jurisdiction of USFWS as well as NMFS, the technical team making the recommendation shall, to the extent that time allows, first coordinate with the Smelt Working Group (SWG). The technical team and the SWG, to the extent feasible, shall jointly make a recommendation to USFWS and NMFS (the Services), who will jointly determine whether the recommended action is consistent with the actions and implementation procedures of NMFS BiOp and is,

therefore, necessary to avoid jeopardy to listed species and adverse modification of critical habitat. The Services shall then present their findings and recommendations to the WOMT.[14]

The WOMT shall either concur with NMFS' (or the Services', as appropriate) recommendation or provide a written alternative to the recommendation, with biological justification, to NMFS (or the Services) within one calendar day. NMFS (or the Services) shall then make a determination as to whether the action proposed by the WOMT is consistent with NMFS BiOp and other endangered species act (ESA) obligations.

As soon as practicable after NMFS (or the Services) makes a final determination on whether a proposed operational action is consistent with ESA obligations, Reclamation shall implement the operational action.[15] Reclamation shall post their operations on their website.[16]

"The action shall remain in effect until NMFS (or the Services), with advice from the appropriate technical team(s), determines that it should be modified or terminated as inconsistent with the implementation procedures for the NMFS BiOp."[17] As soon as practicable following a determination, the action shall be modified or terminated.[18]

5.0 RECLAMATION AND SOG RESPONSIBILITIES

Reclamation and the SOG will have the responsibilities described below.

Operations Outlook

Monthly, Reclamation will prepare an Operations Outlook that will describe possible operations anticipated for the succeeding 12 months. Operations Outlook will include monthly reservoir inflow data, forecasted monthly average New Melones releases, end of month reservoir storages and elevations, and hydrological data. Reclamation also will provide other information related to New Melones Dam operations, including CVP water allocations, water year classifications,

[14] NMFS 2009, 583.
[15] NMFS specified that the Reclamation shall implement the operational change within two days of the SOG recommendation. NMFS 2009, 583.
[16] NMFS 2009, 583
[17] NMFS 2009, 583
[18] NMFS specified that the Reclamation shall implement the operational change within two days of the SOG recommendation. NMFS 2009, 583.

Vernalis Adaptive Management Plan (VAMP) implementation, and CVPIA 3406 (b)(2) actions. Because as the water year progresses, actual conditions will differ from the forecasted conditions, Reclamation will update the Operations Outlook and present the updated Outlook for SOG consideration for each meeting.

5.1 MONITORING AND EVALUATION PROGRAM

The SOG will discuss and interpret data gathered from monitoring efforts in the Stanislaus River.

5.2 OTHER

Other special actions or studies may be brought to the SOG as needed.

6.0 REFERENCES

NMFS 2009. Biological Opinion on the Long-Term Central Valley Project and State Water Project Operations Criteria and Plan.

Reclamation 2006. "Flow Management Standard Report Final Draft". Unpublished. Central Files. Central California Area Office, Folsom.

DRAFT

MEMORANDUM OF AGREEMENT
BETWEEN BUREAU OF RECLAMATION AND MEMBER AGENCIES
FOR PARTICIPATION IN THE STANISLAUS OPERATIONS GROUP

Sponsor

Reclamation will serve as the Stanislaus Operations Group (SOG) sponsor and designated leader.

Member Agencies

The Stanislaus Operations Group consists of representatives from US Fish and Wildlife Service (FWS), National Marine Fisheries Service (NMFS), California Department of Fish and Game (DFG), California State Water Resources Control Board (SWRCB), and California Department of Water Resources (DWR). Membership maybe expanded at the discretion of the current SOG Members and Reclamation.

Purpose of Agreement:

This agreement serves to document the commitment between Reclamation and the Member Agencies to abide by the guidelines established in the attached SOG Charter.

Authority:

This Agreement is entered into under the following authorities of the Parties, among others:

FWS: Endangered species Act of 1973, as amended, 16 U.S.C. 1531 et seq., Fish and Wildlife Coordination Act as amended.

NMFS: Endangered species Act of 1973, as amended, 16 U.S.C. 1531 et seq.

Reclamation: Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq., and section 3406(b)(1) of the Central Valley Project Improvement Act (CVPIA) Tite XXXIV of P.L. 102-575, October 30, 1992.

Background:

The Stanislaus River is a significant resource of considerable interest to fishery management agencies, the public, and Reclamation. The USFWS, NMFS, CDFG, and SWRCB, are agencies with trust responsibilities for fishery and water resources in the Stanislaus River. Reclamation is responsible for operating the East Side Division which is composed of the New Melones Dam and Powerplant. Tri-Dam Project owns and operates Donnells and Beardsley Dams and Reservoirs upstream of New Melones

Reservoir and Tulloch Dam and Reservoir downstream of New Melones Reservoir. Oakdale Irrigation District and South San Joaquin Irrigation District own and operate Goodwin Dam and Reservoir located downstream of Tulloch Dam. The East Side Division is operated to provide flood control, irrigation, power generation, general recreation, water quality, and fish and wildlife enhancement[1].

In June 4, 2009, the NMFS issued its Biological Opinion on the Long-Term Operations of the Central Valley Project and State Water Project (NMFS BiOp). The NMFS BiOp included the requirement that Reclamation create a technical team whose function is "to make recommendations for adjusting operations to meet contractual obligations for water delivery and minimize adverse effects on listed anadromous fish species"[2]. The SOG is the technical group to make recommendations for Stanislaus River operations and issues.

Agreement:

Reclamation agrees to be responsible for facilitating meetings and maintaining the meeting record, with input from the Member Agencies in accordance with SOG procedures as set forward in the SOG charter and the NMFS's 2009, Biological Opinion on the Long-Term Central Valley Project and State Water Project Operations Criteria and Plan.

The Member Agencies, USFWS, NMFS, CDFG, SWRCB, and DWR, agree to designate an individual to represent its interests on the SOG and ensure that the responsibilities of their respective agencies are met as described in the SOG charter and the NMFS's 2009, Biological Opinion on the Long-Term Central Valley Project and State Water Project Operations Criteria and Plan.

Signatures:

This Agreement may be executed in counterparts. Reclamation shall retain a copy of the Agreement with all original executed signatures. Reclamation will distribute copies of the Agreement with executed signature pages to the Member Agencies. Each party hereby represents and warrants that the person executing the Agreement on its behalf is duly authorized to do so.

_____ Date: _____

Name:
Title:
National Marine Fisheries Service

[1] PL 78–534 and PL 87-874

[2] NMFS 2009. Biological Opinion on the Long-Term Central Valley Project and State Water Project Operations Criteria and Plan, 581.

_____ Date: _____

Name:
Title:
US Fish and Wildlife Service

_____ Date: _____

Name:
Title:
California Department of Fish and Game

_____ Date: _____

Name:
Title:
California State Water Resources Control Board

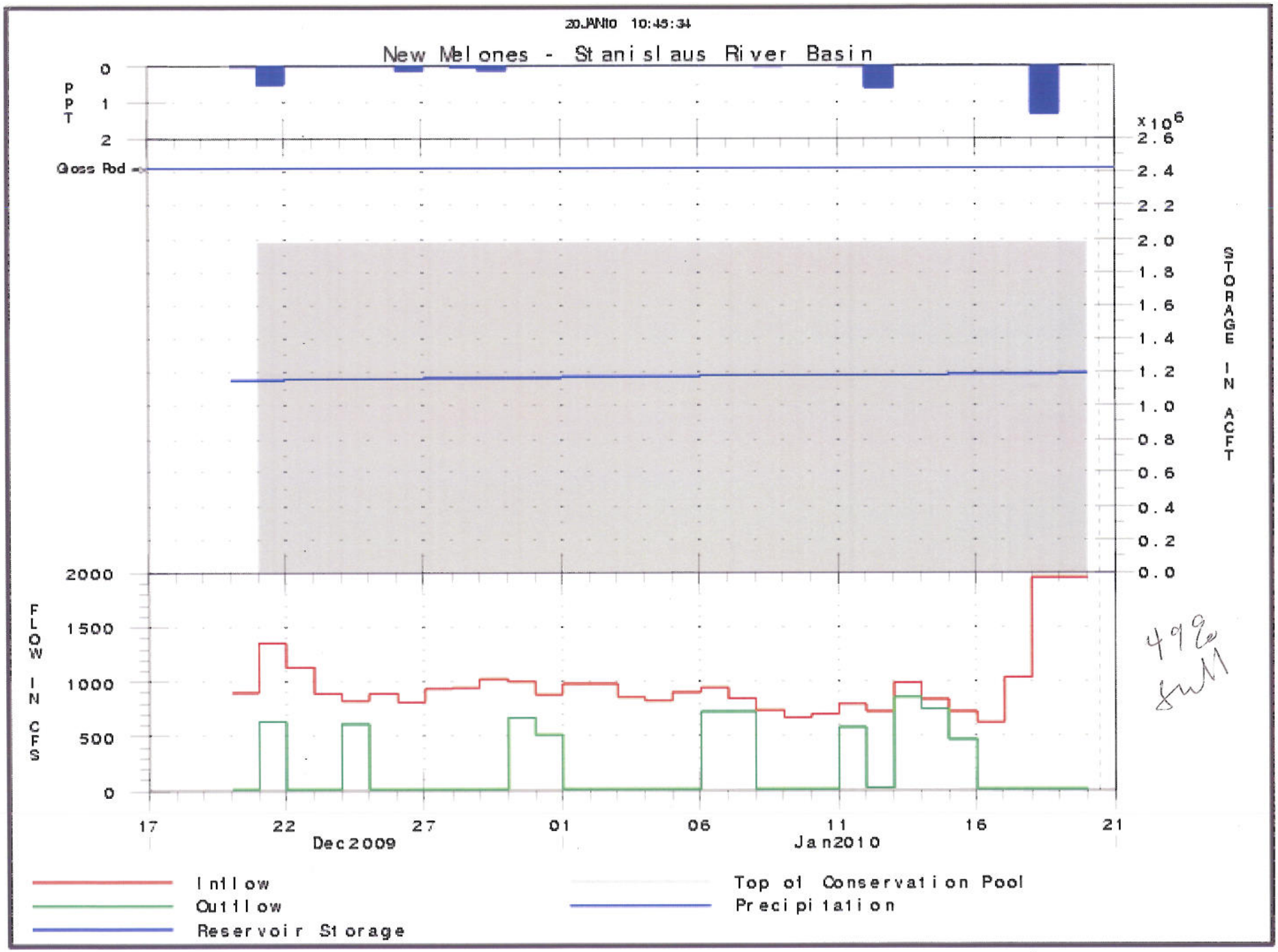
_____ Date: _____

Name:
Title:
California Department of Water Resources

_____ Date: _____

Name:
Title:
US Bureau of Reclamation

DRAFT


20JAN10 10:45:34
New Melones - Stanislaus River Basin
PPT
0
1
2
Gross Pool
x10^6
2.6
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2.0
1.8
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1.4
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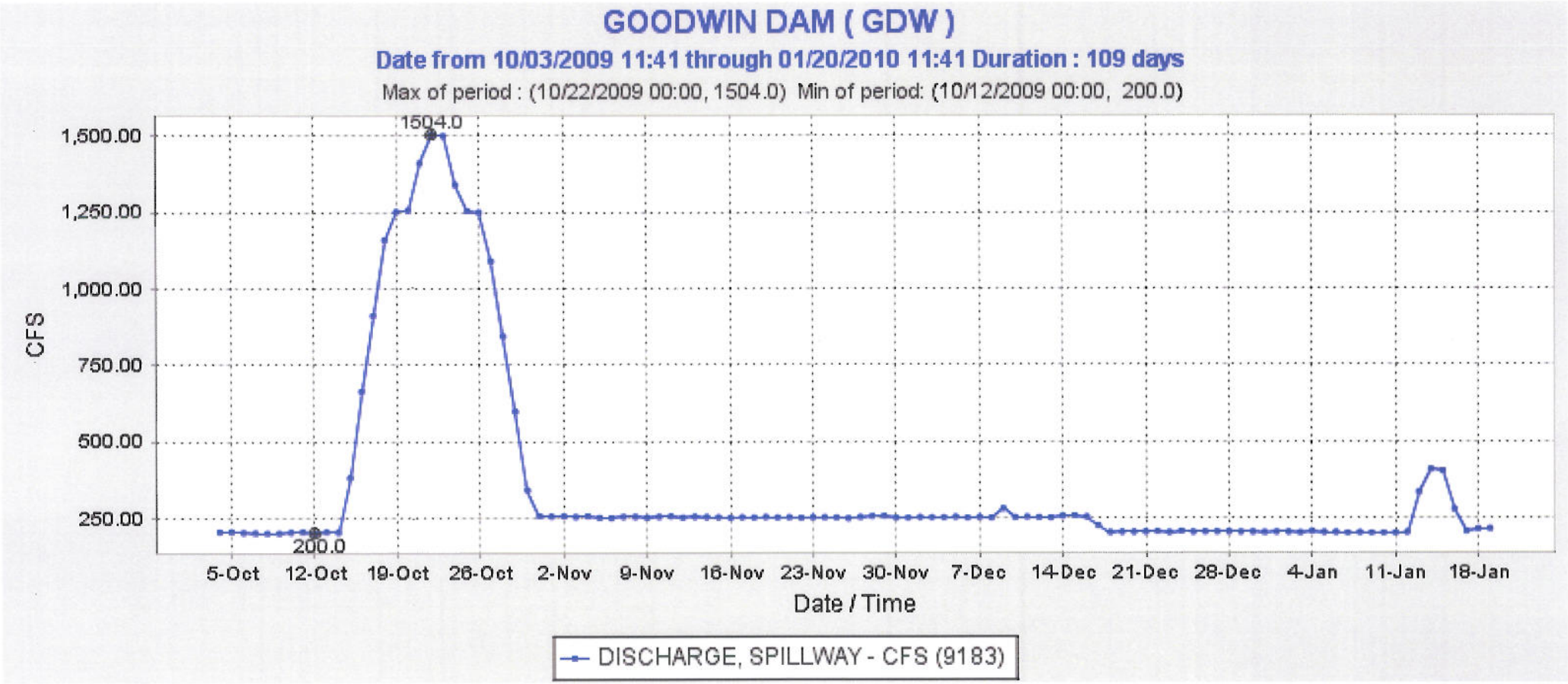
0.0
STORAGE IN ACFT
FLOW IN CFS
2000
1500
1000
500
0
17
22
27
01
06
11
16
21
Dec2009
Jan2010
Inflow
Outflow
Reservoir Storage
Top of Conservation Pool
Precipitation
49%
full


GOODWIN DAM (GDW)
Date from 10/03/2009 11:41 through 01/20/2010 11:41 Duration : 109 days
Max of period : (10/22/2009 00:00, 1504.0) Min of period: (10/12/2009 00:00, 200.0)
1504.0
200.0
1,500.00
1,250.00
1,000.00
750.00
500.00
250.00
CFS
5-Oct
12-Oct
19-Oct
26-Oct
2-Nov
9-Nov
16-Nov
23-Nov
30-Nov
7-Dec
14-Dec
21-Dec
28-Dec
4-Jan
11-Jan
18-Jan
Date / Time
DISCHARGE, SPILLWAY - CFS (9183)

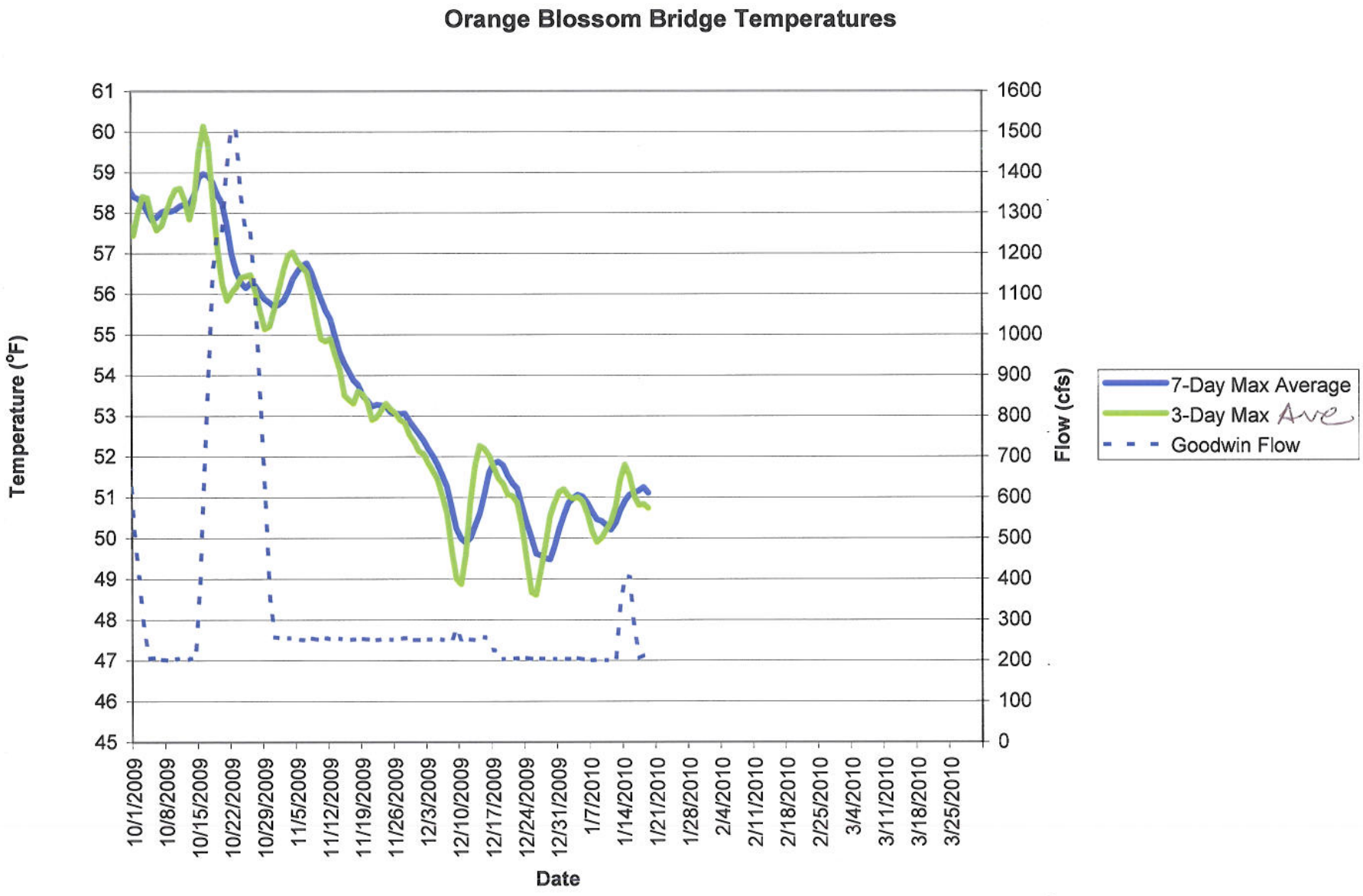
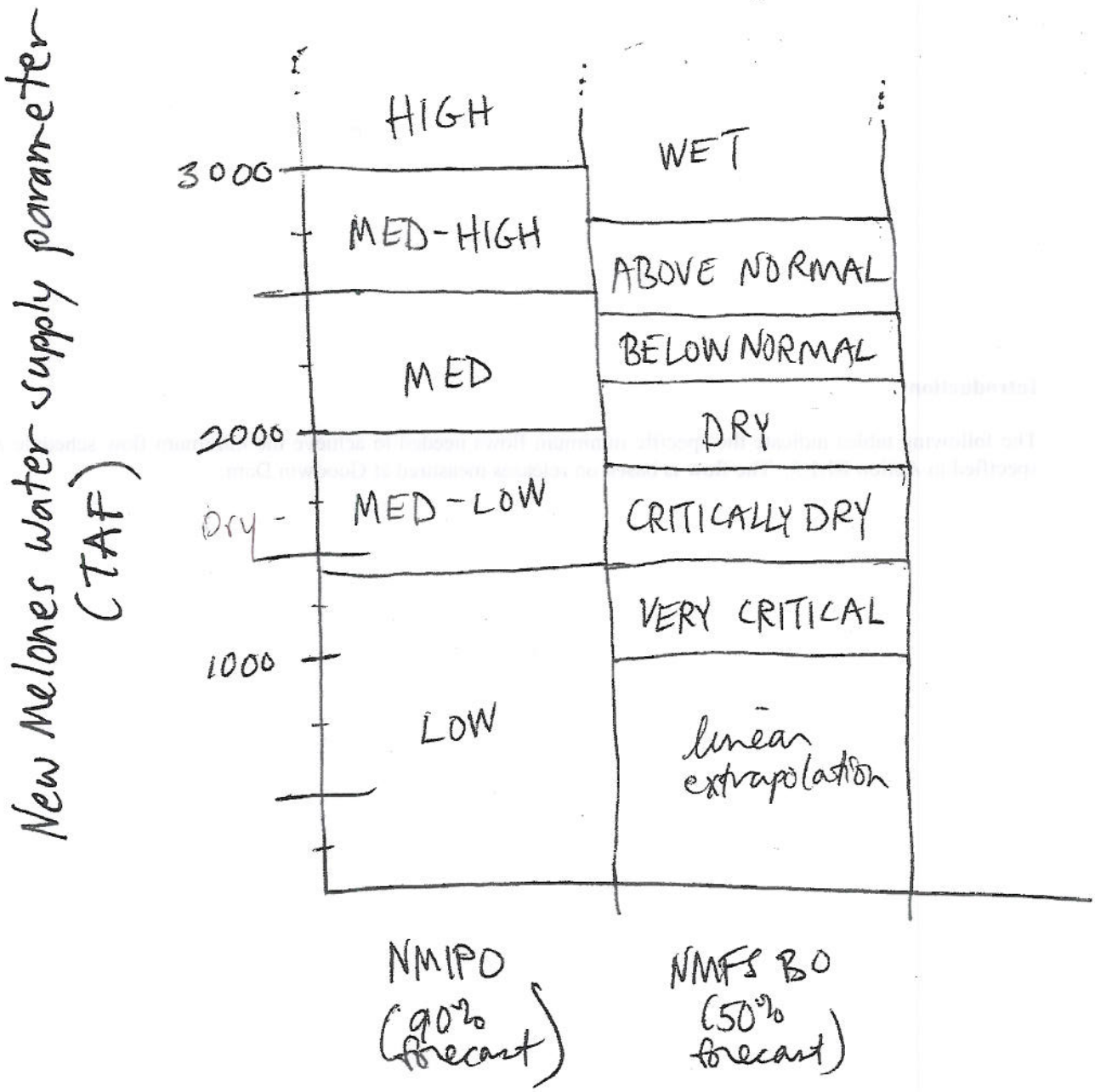

Orange Blossom Bridge Temperatures
Temperature (°F)
61
60
59
58
57
56
55
54
53
52
51
50
49
48
47
46
45
Flow (cfs)
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
10/1/2009
10/8/2009
10/15/2009
10/22/2009
10/29/2009
11/5/2009
11/12/2009
11/19/2009
11/26/2009
12/3/2009
12/10/2009
12/17/2009
12/24/2009
12/31/2009
1/7/2010
1/14/2010
1/21/2010
1/28/2010
2/4/2010
2/11/2010
2/18/2010
2/25/2010
3/4/2010
3/11/2010
3/18/2010
3/25/2010
Date
7-Day Max Average
3-Day Max Ave
Goodwin Flow

Table 1: Summary of how water year types are defined and updated in Reclamation's Interim Plan of Operations and the NMFS OCAP Biological Opinion. New Melones Index = NMI = February end of month storage plus March through September forecast of inflow to New Melones Reservoir.

Component	IPO	NMFS OCAP BO	Comments
1. Which forecast (50% or 90%) of the through-September inflow is used to calculate the NMI?	90% (not explicit in IPO, but is the practice)	50% (not explicit in the BO, but is the intended practice of the NMFS RPA.)	
2. What is the updating process for the NMI and associated water year type? That is, when is the NMI (and associated year type) first calculated? How often is it adjusted?	Water supply parameter is "announced by February 15 and updated by the 15th of each subsequent month through June." *(excerpt from p. 2 of the IPO)*	The NMI will be calculated by the end of the second full week of February; and updated by the second full week of each subsequent month through June. For each NMI, the schedule of minimum instream flows associated with the resultant yeartype will begin on the first day of the following month. The June NMI will set the schedule to be used from July through February of the following year.	The NMFS BO updates the NMI Index using the following formula: actual end of Feb storage + actual inflows from March through the most recent month + 50% exceedance forecast of unimpaired inflows to New Melones from the current month through September. See full explanation on following page.
3. How does the NMI map to water year type?	Water supply category (NMI, in TAF) Low (0-1,400) Medium-Low (1,400-2,000) Medium (2,000-2,500) Medium-High (2,500-3,000) High (3,000-6,000) *(from p. 1 of the IPO)*	Water yeartype (NMI, in TAF) Very Critical ($1000 \leq NMI \leq 1399$) Critically Dry ($1400 \leq NMI \leq 1724$) Dry ($1725 \leq NMI \leq 2177$) Below Normal ($2178 \leq NMI \leq 2386$) Above Normal ($2387 \leq NMI \leq 2761$) Wet ($2762 \leq NMI$)	


New Melones water supply parameter (TAF)
3000
2000
1000
Dry -
HIGH
MED-HIGH
MED
MED-LOW
LOW
WET
ABOVE NORMAL
BELOW NORMAL
DRY
CRITICALLY DRY
VERY CRITICAL
linear extrapolation
NMIPO (90% forecast)
NMFS BO (50% forecast)

Stanislaus River Minimum Fish Flow Schedule
Water Year Type: Very Critical

OCT	CFS	NOV	CFS	DEC	CFS	JAN	CFS	FEB	CFS	MAR	CFS
1	110	1	200	1	200	1	125	1	125	1	125
2	110	2	200	2	200	2	125	2	125	2	125
3	110	3	200	3	200	3	125	3	125	3	125
4	110	4	200	4	200	4	125	4	125	4	125
5	110	5	200	5	200	5	125	5	125	5	125
6	110	6	200	6	200	6	125	6	125	6	125
7	110	7	200	7	200	7	125	7	125	7	125
8	110	8	200	8	200	8	125	8	125	8	125
9	110	9	200	9	200	9	125	9	125	9	125
10	110	10	200	10	200	10	125	10	125	10	125
11	110	11	200	11	200	11	125	11	125	11	125
12	110	12	200	12	200	12	125	12	125	12	125
13	110	13	200	13	200	13	125	13	125	13	125
14	110	14	200	14	200	14	125	14	125	14	125
15	110	15	200	15	200	15	125	15	125	15	125
16	110	16	200	16	200	16	125	16	125	16	125
17	110	17	200	17	200	17	125	17	125	17	125
18	110	18	200	18	200	18	125	18	125	18	125
19	110	19	200	19	200	19	125	19	125	19	125
20	110	20	200	20	200	20	125	20	125	20	125
21	110	21	200	21	200	21	125	21	125	21	125
22	110	22	200	22	200	22	125	22	125	22	125
23	110	23	200	23	200	23	125	23	125	23	125
24	110	24	200	24	200	24	125	24	125	24	125
25	110	25	200	25	200	25	125	25	125	25	125
26	110	26	200	26	200	26	125	26	125	26	125
27	110	27	200	27	200	27	125	27	125	27	125
28	110	28	200	28	200	28	125	28	125	28	125
29	110	29	200	29	200	29	125			29	125
30	110	30	200	30	200	30	125			30	125
31	110			31	200	31	125			31	125

APR	CFS	MAY	CFS	JUN	CFS	JUL	CFS	AUG	CFS	SEP	CFS
1	250	1	500	1	0	1	0	1	0	1	0
2	250	2	500	2	0	2	0	2	0	2	0
3	250	3	500	3	0	3	0	3	0	3	0
4	250	4	500	4	0	4	0	4	0	4	0
5	250	5	500	5	0	5	0	5	0	5	0
6	250	6	500	6	0	6	0	6	0	6	0
7	250	7	500	7	0	7	0	7	0	7	0
8	250	8	500	8	0	8	0	8	0	8	0
9	250	9	500	9	0	9	0	9	0	9	0
10	250	10	500	10	0	10	0	10	0	10	0
11	250	11	500	11	0	11	0	11	0	11	0
12	250	12	500	12	0	12	0	12	0	12	0
13	250	13	500	13	0	13	0	13	0	13	0
14	250	14	500	14	0	14	0	14	0	14	0
15	500	15	500	15	0	15	0	15	0	15	0
16	500	16	250	16	0	16	0	16	0	16	0
17	500	17	250	17	0	17	0	17	0	17	0
18	500	18	250	18	0	18	0	18	0	18	0
19	500	19	250	19	0	19	0	19	0	19	0
20	500	20	250	20	0	20	0	20	0	20	0
21	500	21	250	21	0	21	0	21	0	21	0
22	500	22	250	22	0	22	0	22	0	22	0
23	500	23	250	23	0	23	0	23	0	23	0
24	500	24	250	24	0	24	0	24	0	24	0
25	500	25	250	25	0	25	0	25	0	25	0
26	500	26	250	26	0	26	0	26	0	26	0
27	500	27	250	27	0	27	0	27	0	27	0
28	500	28	250	28	0	28	0	28	0	28	0
29	500	29	250	29	0	29	0	29	0	29	0
30	500	30	250	30	0	30	0	30	0	30	0
		31	250			31	0	31	0		

Stanislaus River Minimum Fish Flow Schedule
Water Year Type: Dry

OCT	CFS	NOV	CFS	DEC	CFS	JAN	CFS	FEB	CFS	MAR	CFS
1	200	1	200	1	200	1	200	1	200	1	200
2	200	2	200	2	200	2	200	2	200	2	200
3	200	3	200	3	200	3	400	3	200	3	200
4	200	4	200	4	200	4	400	4	200	4	200
5	200	5	200	5	200	5	400	5	400	5	200
6	200	6	200	6	200	6	200	6	400	6	200
7	200	7	200	7	200	7	200	7	400	7	200
8	200	8	200	8	200	8	200	8	200	8	200
9	200	9	200	9	200	9	200	9	200	9	200
10	200	10	200	10	200	10	200	10	200	10	200
11	200	11	200	11	200	11	200	11	200	11	200
12	200	12	200	12	200	12	200	12	200	12	200
13	200	13	200	13	200	13	200	13	200	13	200
14	200	14	200	14	200	14	200	14	200	14	200
15	500	15	200	15	200	15	200	15	200	15	200
16	750	16	200	16	200	16	200	16	200	16	200
17	1000	17	200	17	200	17	200	17	200	17	200
18	1250	18	200	18	200	18	200	18	200	18	200
19	1250	19	200	19	200	19	200	19	200	19	200
20	1250	20	200	20	200	20	200	20	200	20	200
21	1500	21	200	21	200	21	200	21	200	21	200
22	1500	22	200	22	200	22	200	22	200	22	200
23	1500	23	200	23	200	23	200	23	200	23	200
24	1250	24	200	24	200	24	200	24	200	24	200
25	1250	25	200	25	200	25	200	25	200	25	200
26	1250	26	200	26	200	26	200	26	200	26	200
27	1000	27	200	27	200	27	200	27	200	27	200
28	750	28	200	28	200	28	200	28	200	28	200
29	500	29	200	29	200	29	200			29	200
30	200	30	200	30	200	30	200			30	200
31	200			31	200	31	200			31	200

APR	CFS	MAY	CFS	JUN	CFS	JUL	CFS	AUG	CFS	SEP	CFS
1	200	1	1000	1	200	1	200	1	200	1	200
2	200	2	1000	2	200	2	200	2	200	2	200
3	200	3	1000	3	200	3	200	3	200	3	200
4	200	4	1000	4	200	4	200	4	200	4	200
5	200	5	1000	5	200	5	200	5	200	5	200
6	200	6	1000	6	200	6	200	6	200	6	200
7	200	7	1000	7	200	7	200	7	200	7	200
8	350	8	1000	8	200	8	200	8	200	8	200
9	500	9	1000	9	200	9	200	9	200	9	200
10	750	10	1000	10	200	10	200	10	200	10	200
11	1000	11	1000	11	200	11	200	11	200	11	200
12	1000	12	1000	12	200	12	200	12	200	12	200
13	1000	13	1000	13	200	13	200	13	200	13	200
14	1000	14	1000	14	200	14	200	14	200	14	200
15	1000	15	1000	15	200	15	200	15	200	15	200
16	1000	16	800	16	200	16	200	16	200	16	200
17	1000	17	600	17	200	17	200	17	200	17	200
18	1000	18	450	18	200	18	200	18	200	18	200
19	1000	19	300	19	200	19	200	19	200	19	200
20	1000	20	200	20	200	20	200	20	200	20	200
21	1000	21	200	21	200	21	200	21	200	21	200
22	1000	22	200	22	200	22	200	22	200	22	200
23	1000	23	200	23	200	23	200	23	200	23	200
24	1000	24	200	24	200	24	200	24	200	24	200
25	1000	25	200	25	200	25	200	25	200	25	200
26	1000	26	200	26	200	26	200	26	200	26	200
27	1000	27	200	27	200	27	200	27	200	27	200
28	1000	28	200	28	200	28	200	28	200	28	200
29	1000	29	200	29	200	29	200	29	200	29	200
30	1000	30	200	30	200	30	200	30	200	30	200
		31	200			31	200	31	200		

Table 2 of 5

Stanislaus River Minimum Fish Flow Schedule
Water Year Type: Above Normal

OCT	CFS	NOV	CFS	DEC	CFS	JAN	CFS	FEB	CFS	MAR	CFS
1	300	1	200	1	200	1	200	1	200	1	200
2	300	2	200	2	200	2	200	2	200	2	350
3	300	3	200	3	200	3	400	3	200	3	700
4	300	4	200	4	200	4	400	4	200	4	1200
5	300	5	200	5	200	5	400	5	400	5	1800
6	300	6	200	6	200	6	400	6	400	6	2300
7	300	7	200	7	200	7	400	7	400	7	3000
8	300	8	200	8	200	8	200	8	400	8	3000
9	300	9	200	9	200	9	200	9	400	9	3000
10	300	10	200	10	200	10	200	10	200	10	3000
11	300	11	200	11	200	11	200	11	200	11	3000
12	300	12	200	12	200	12	200	12	200	12	3000
13	300	13	200	13	200	13	200	13	200	13	1200
14	300	14	200	14	200	14	200	14	200	14	800
15	500	15	200	15	200	15	200	15	200	15	800
16	750	16	200	16	200	16	200	16	200	16	800
17	1000	17	200	17	200	17	200	17	200	17	800
18	1250	18	200	18	200	18	200	18	200	18	800
19	1500	19	200	19	200	19	200	19	200	19	800
20	1500	20	200	20	200	20	200	20	200	20	800
21	1500	21	200	21	200	21	200	21	200	21	800
22	1500	22	200	22	200	22	200	22	200	22	800
23	1500	23	200	23	200	23	200	23	200	23	800
24	1500	24	200	24	200	24	200	24	200	24	800
25	1500	25	200	25	200	25	200	25	200	25	800
26	1500	26	200	26	200	26	200	26	200	26	800
27	1500	27	200	27	200	27	200	27	200	27	1200
28	1250	28	200	28	200	28	200	28	200	28	1500
29	1000	29	200	29	200	29	200			29	2300
30	750	30	200	30	200	30	200			30	3000
31	500			31	200	31	200			31	3000

APR	CFS	MAY	CFS	JUN	CFS	JUL	CFS	AUG	CFS	SEP	CFS
1	3000	1	3000	1	1200	1	300	1	300	1	300
2	3000	2	3000	2	1200	2	300	2	300	2	300
3	3000	3	3000	3	1200	3	300	3	300	3	300
4	3000	4	3000	4	1200	4	300	4	300	4	300
5	2300	5	2300	5	1200	5	300	5	300	5	300
6	1500	6	1500	6	1200	6	300	6	300	6	300
7	1200	7	1500	7	1200	7	300	7	300	7	300
8	800	8	1500	8	1200	8	300	8	300	8	300
9	800	9	1500	9	1000	9	300	9	300	9	300
10	800	10	1500	10	1000	10	300	10	300	10	300
11	800	11	1500	11	1000	11	300	11	300	11	300
12	800	12	1500	12	1000	12	300	12	300	12	300
13	800	13	1500	13	1000	13	300	13	300	13	300
14	800	14	1500	14	1000	14	300	14	300	14	300
15	800	15	1200	15	1000	15	300	15	300	15	300
16	800	16	1200	16	1000	16	300	16	300	16	300
17	800	17	1200	17	1000	17	300	17	300	17	300
18	800	18	1200	18	1000	18	300	18	300	18	300
19	800	19	1200	19	1000	19	300	19	300	19	300
20	800	20	1200	20	1000	20	300	20	300	20	300
21	800	21	1200	21	1000	21	300	21	300	21	300
22	800	22	1200	22	1000	22	300	22	300	22	300
23	800	23	1200	23	1000	23	300	23	300	23	300
24	800	24	1200	24	750	24	300	24	300	24	300
25	800	25	1200	25	750	25	300	25	300	25	300
26	800	26	1200	26	500	26	300	26	300	26	300
27	1500	27	1200	27	500	27	300	27	300	27	300
28	2300	28	1200	28	500	28	300	28	300	28	300
29	3000	29	1200	29	300	29	300	29	300	29	300
30	3000	30	1200	30	300	30	300	30	300	30	300
		31	1200			31	300	31	300		

Table 4 of 5

United States Department of the Interior

BUREAU OF RECLAMATION
Central Valley Operations Office
3310 El Camino Avenue, Suite 300
Sacramento, California 95821

IN REPLY REFER TO:
CVO-400
WTR-4.10

MAY 01 1997

To: Stanislaus River Basin Stakeholders
Other Interested Parties
(See Attached List)

From: Lowell F. Ploss
Operations Manager, Central Valley Operations

Subject: Transmittal of New Melones Interim Plan of Operation

Attached is the interim plan of operation for New Melones Reservoir. The interim plan was developed as a joint effort between The Bureau of Reclamation (Reclamation) and the Fish and Wildlife Service (FWS) in conjunction with the Stanislaus River Basin Stakeholders. This process began in 1995 with a goal to develop a management plan with clear operating criteria for available water supplies in the Stanislaus Basin on a long-term basis. In 1996, that effort was continued with a group of Stanislaus stakeholders; however, the focus shifted to an interim plan for 1997 and 1998 operations. During a meeting of the stakeholders on January 29, 1997, a final interim plan of operation for New Melones Reservoir was agreed to in concept. The details of this plan are attached. Also attached are examples of operations under the 50 percent probability of exceedance (most probable) and 90 percent probability of exceedance (90 percent chance of having increased inflows) hydrologic conditions which include Water Years 1997 and 1998. This plan is contingent upon all elements as described in this document. It was also decided at the January 29, 1997, meeting that between now and late 1998 additional work on a long-term plan would continue.

If you have any questions regarding this interim plan, please call Dave Read (Reclamation) at 979-2684 or Roger Guinee (FWS) at 979-2760.

Lowell F. Ploss

Attachments

cc: Fish & Wildlife: Maria Macoubrie
Joel Medlin
Dick Jewell

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San Andreas, CA 95249

New Melones Interim Plan of Operation

Annual Water Supply Categories

Table 1 shows the five annual water supply categories to be used in the interim plan of operation and the corresponding ranges of February end of month storage plus March through September forecast of inflow to New Melones Reservoir.

Table 1

Annual Water Supply Category	Mar.-Sept. Forecast plus Feb. End of Month Storage (TAF)	
	From	To
Low	0	1,400
Medium-Low	1,400	2,000
Medium	2,000	2,500
Medium-High	2,500	3,000
High	3,000	6,000

Water Distribution

Table 2 shows the distributions of annual (March through February) water supplies measured at Goodwin Dam, based on Table 1 categories, for fishery, Vernalis water quality, Bay-Delta, and Central Valley Project (CVP) contractors. The annual deliveries for these purposes will be determined by interpolating user allocation against the corresponding Table 1 hydrologic category. Allocations to Oakdale and South San Joaquin Irrigation Districts will be pursuant to their 1988 agreement with Bureau of Reclamation (Reclamation). It was agreed that Reclamation and Fish and Wildlife Service (Service) will acquire water from Oakdale and South San Joaquin Irrigation Districts (up to 50 TAF per year during 1997 and 1998) for fishery purposes. The release patterns for fishery purposes will be developed by Service and Reclamation in cooperation with the California Department of Fish and Game (DFG) and in consultation with interested agencies/parties. As part of the interim plan, it was negotiated that CVP contractors will receive 50 TAF per year during 1997 and 1998; therefore, this interpolation procedure will not apply to them for the interim period. The allocation in Table 2 for CVP Contractors is presented for information only. It should be noted that the low water supply category has been deleted from Table 2, because it is not anticipated that it will be reached during 1997 and 1998.

During 1997 and 1998, it is anticipated that all objectives will be met according to the understanding that was reached in the Stanislaus Stakeholders meeting, and pursuant to Reclamation's April 4, 1997, letter to the Service and the Service's April 8, 1997, response (both attached). However, should extremely dry conditions or some unforeseen circumstance occur, Reclamation and the Service will convene a meeting with the Stakeholders to seek a solution.

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NEW MELONES Forecast Model With Acq

Prorate Plan

End of February Storage Plus
Forecasted Mar - Sep Inflow 2679.6 TAF

* Actual Data for WY	1997	Oct*	Nov*	Dec*	Jan*	Feb*	Mar*	Apr	May	Jun	Jul	Aug	Sep	WY Totals (TAF)	Mar-Feb Allocat'n (TAF)	Mar-Feb Totals (TAF)
Inflow (TAF)	90%	60	60	215	600	187	155	111	119	92	54	48	44	1745		
Evap (TAF)		3	2	1	2	2	2	4	6	6	8	7	6	48		
Total NM Release (TAF)		75	73	235	492	444	179	159	195	152	131	86	75	2296		
Tull. Stor. (TAF)	64.5	57	57	57	57	57	59	63	67	67	67	67	64			
Gdwn AFRP Rel (CFS)		426	296	296	296	296	339	1128	1047	682	289	289	289	342	389	389
Acqrd Water Effect (CFS), Wet or Dry Sched	D	0	0	0	0	0	0	372	453	0	0	0	0	50	50	50
Goodwin WQ Flows (CFS)		0	0	0	0	0	0	0	0	0	0	9	0	1	202	1
Goodwin Spill/DO (CFS)		368	931	3518	7704	7704	1888	0	0	0	0	0	0	1312		
Goodwin Bay-Delta (CFS); X2 W or E	E	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Goodwin Release(CFS)		794	1226	3814	8000	8000	2227	1500	1500	682	289	298	289	1705		
OID/SSJID (TAF)		30	0	0	0	0	40	60	93	106	106	61	55	550		
CVP Contractors (TAF)		4	0	0	0	0	1	6	6	6	8	7	6	42	50	50
Storage (TAF)	1988	1985	1991	2011	2243	2057	2022	1970	1888	1822	1737	1692	1655			
Elevation (Feet)		1051	1051	1053	1073	1057	1054	1050	1042	1036	1027	1023	1019			
S.J. above VNS. (CFS)		2244	2282	7725	26916	26072	11319	3210	2732	1697	1441	1265	1181	5245		
S. J. @ VNS. (CFS)		3039	3508	11539	34916	34072	13547	4710	4232	2380	1730	1563	1471	6949		
Estimated S J WQ @ VNS (TDS ppm)		332	326	216	185	129	216	353	355	350	340	455	466			

Non-required DO Released in addition to acquired water Yes
Non-required WQ Released in addition to acquired water Yes
Non-required BD Released in addition to acquired water No

End of February Storage Plus
Forecasted Mar - Sep Inflow 1921.6 TAF

	1998	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	WY Totals (TAF)	Mar-Feb Allocat'n (TAF)	Mar-Feb Totals (TAF)
Inflow (TAF)	90%	25	20	20	20	25	45	75	80	40	30	30	30	440		
Evap (TAF)		3	1	1	2	1	2	4	5	5	7	6	5	42		
Total NM Release (TAF)		76	22	23	23	21	30	123	145	123	110	105	68	869		
Tull. Stor. (TAF)	63.5	57	57	57	57	57	59	63	67	67	67	67	64			
Gdwn AFRP Rel (CFS)		1013	339	339	339	339	145	258	659	32	32	32	32	216	122	122
Acqrd Water Effect (CFS), Wet or Dry Sched	D	0	0	0	0	0	0	193	201	0	0	0	0	24	25	25
Goodwin WQ Flows (CFS)		0	0	0	0	0	98	511	80	487	136	0	0	79	79	79
Goodwin Spill/DO (CFS)		0	0	0	0	0	0	0	0	0	96	235	209	33		
Goodwin Bay-Delta (CFS); X2 W or E	W	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Goodwin Release(CFS)		1013	339	339	339	339	243	962	940	519	264	267	240	351		
OID/SSJID (TAF)		17	0	0	0	0	12	56	76	87	87	82	52	468		
CVP Contractors (TAF)		4	2	2	2	2	2	6	6	6	7	7	6	50	50	50
Storage (TAF)	1655	1601	1597	1593	1589	1592	1604	1553	1483	1395	1300	1226	1185			
Elevation (Feet)		1014	1013	1013	1012	1013	1014	1009	1001	992	982	972	967			
S.J. above VNS. (CFS)		927	1109	1073	1057	1260	1447	1126	1025	723	699	569	639	702		
S. J @ VNS (CFS)		1940	1448	1413	1396	1600	1690	2088	1965	1241	963	836	879	1053		
Estimated S J WQ @ VNS (TDS ppm)		379	580	480	417	425	650	418	414	455	474	502	566			

End of February Storage Plus
Forecasted Mar - Sep Inflow 1544.4 TAF

	1999	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	WY Totals (TAF)	Mar-Feb Allocat'n (TAF)	Mar-Feb Totals (TAF)
Inflow (TAF)	90%	25	20	20	20	25										
Evap (TAF)		2	1	1	1	1										
Total NM Release (TAF)		23	14	15	11	10										
Tull. Stor. (TAF)	63.5	57	57	57	57	57										
Gdwn AFRP Rel (CFS)		124	208	208	145	145								50	NA	NA
Acqrd Water Effect (CFS); Wet or Dry Sched	D	20	0	0	0	0								1	NA	NA
Goodwin WQ Flows (CFS)		0	0	0	0	0								0	NA	NA
Goodwin Spill/DO (CFS)		0	0	0	0	0										
Goodwin Bay-Delta (CFS); X2 W or E	W	0	0	0	0	0										
Total Goodwin Release(CFS)		144	208	208	145	145										
OID/SSJID (TAF)		17	0	0	0	0										
CVP Contractors (TAF)		4	2	2	2	2								12	NA	NA
Storage (TAF)	1185	1184	1189	1193	1201	1214										
Elevation (Feet)		967	967	968	969	970										
S.J. above VNS. (CFS)		927	1109	1073	1057	1260										
S J @ VNS (CFS)		1071	1317	1281	1202	1405										
Estimated S J WQ @ VNS (TDS ppm)		642	632	524	476	477										