

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS
RESERVOIR OPERATIONS COMMITTEE**

COMMITTEE MEMBERS

David Hart, Chair
Ken Ekelund
Fred Ledesma
Mark Nielsen
David Pozzi

John Baillie
Benny Jefferson
Paavo Ogren
Tom Shepherd (Parks)
Randy Korsgaard (CalParks)

TIME: 1:30 pm
DATE: Thursday, March 7, 2013
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901

AGENDA

1. CALL TO ORDER

2. PUBLIC COMMENT

(Limited to three (3) minutes per speaker on matters within the jurisdiction of the Agency not listed on this agenda. The public will have the opportunity to ask questions and make statements on agenda items as the Committee considers them.)

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETINGS HELD ON FEBRUARY 7, 2013

The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).

4. REVIEW THE STATUS OF BOTH RESERVOIRS; AND, REVIEW RELEASES AND RELEASE SCHEDULE / DISCUSS POSSIBLE RELEASE OPTIONS

Howard Franklin, Senior Water Resources Hydrologist / Program Manager will present a summary of current conditions at both reservoirs, as well as provide a synopsis of the release changes that have occurred since the last meeting. The Committee will discuss possible reservoir release scenario options (Attachments 2, 2a, 3, 3a, 4).

5. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS

Brent Buche, Assistant General Manager / Chief of Operations and Maintenance will present a verbal report discussing the various Operations and Maintenance activities at both reservoirs that have occurred over the last month.

6. RECEIVE REPORTS ON STATUS OF:

- A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT**
- B. EASEMENTS AND AGENCY LEASES**
- C. QUAGGA / ZEBRA MUSSEL PLAN**
- D. UPDATE ON SLO COUNTY ACTIVITIES**

7. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The Committee will discuss and determine details for its next meeting.

8. ADJOURNMENT

**MONTEREY COUNTY WATER RESOURCES AGENCY
BOARD OF DIRECTORS
RESERVOIR OPERATIONS COMMITTEE**

David Hart, Chair
Ken Ekelund
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Tom Shepherd
Randy Korsgaard

TIME: 1:30 p.m.
DATE: **Thursday, February 7, 2013**
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. CALL TO ORDER @ 1:32 p.m. by Chair David Hart.

Members present: David Hart, Ken Ekelund, Fred Ledesma, Mark Nielsen, John Baillie,
Paavo Ogren, Tom Shepherd, Randy Korsgaard
Members absent: David Pozzi, Benny Jefferson,

A quorum was established.

2. PUBLIC COMMENT

Robert Johnson, Assistant General Manager & Chief of Water Resources Management, stated that Item 8 (Emergency Water Supply request by Heritage Ranch) is being removed from the Agenda. Also, the Committee previously discussed combining Items 4 & 7; discussion of Item 7 can be included in Item 4.

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE HELD ON JANUARY 10, 2013.

Committee Action: On motion and second of Committee members John Baillie and Fred Ledesma the Committee unanimously approved the minutes.

4. REVIEW STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE

Howard Franklin, Senior Water Resources Hydrologist/Program Manager provided a status report. As a result of the rainfall received in December 2012 and January 2013, Nacimiento received 54,082 acre feet of storage, an increase of 16 feet in elevation. San Antonio received approximately 18,400 acre feet of storage, an increase of 5 feet in elevation. Both reservoirs continue to receive inflow of approximately 40 cfs, and there is continuous flow in the Salinas River to Spreckels, at the USGS station located at the Spreckels Bridge. The lagoon closed on January 28, 2013.

The Committee discussed the Reservoir Release schedule and the three-month weather outlook. The forecast for February is 60% of normal rainfall; or 1½ inches and March will be 40% of normal, or less than 1 inch. The type of water year for this winter will be determined on March 1. **In the Salinas Valley, the normal rainfall average for February is 2.45 inches.** The Committee viewed a PowerPoint presentation that showed Forecasted Elevation, Inflow and Releases for Nacimiento and San Antonio.

The Committee was asked if there were any statements regarding the non-SVWP releases. Mr. Franklin stated triggers for upstream migration are active, and if the lagoon opens and there are trigger flows in the Arroyo Seco River, we need to have five (5) days minimum passage. It would be during this unusual circumstance that we would need to make unscheduled releases.

NACIMIENTO elevation is 758.55 feet and 181,413 acre-feet of storage, 48% of capacity, and current release is 60 cfs.

SAN ANTONIO elevation is 747.35 feet and 186,628 acre-feet of storage, 56% of capacity, and current release is 10 cfs.

5. RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS

Brent Buche, Assistant General Manager & Chief of Operations and Maintenance, provided a report. San Antonio activities include routine maintenance on the Howell Bunger valves, spillway drains. A crew from Monterey County Public Works has been on-site at both San Antonio and Nacimiento, conducting surveys. The new County Surveyor, Michael Goetz is working on setting up a new network that will be used throughout South County. A new monument has been installed at San Antonio.

Activities at Nacimiento have been routine maintenance tasks, including cleaning the spillway gutters. Staff is working on finalizing details with the manufacturer prior to placing the order for the three (3) 42-inch valve actuators, for the LLOW inlet valves. Once the order is placed, it will be nine months before the parts arrive, and installation is scheduled to take place September-October 2013. Staff is doing a walk thru tomorrow with Site Construction and General Electric. We will start disassembling starting Monday February 11, 2013 - Unit #2 will be shut down and we will not be generating power. The powerplant will be down for 4-6 months once the work begins, and crews will be working 10-hour days, which will be covered by the insurance company. Insurance is paying for all costs, including loss of revenue.

Staff has been involved with securing a new Power Purchase Agreement, and is going well.

6. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Tom Shepherd, Monterey County Parks Department and Randy Korsgaard, General Manager for CalParks, reported on activities. Staff is planning for upcoming training and making preparations for the spring, including the Wildflower & Triathlon Festival.

B. EASEMENTS AND AGENCY LEASES

Chris Keehn, Right-Of-Way Specialist, provided an update to the Committee. The Agency is still receiving reports of cattle running loose at the San Antonio lease areas at North Shore and staff is working on solutions.

C. QUAGGA / ZEBRA MUSSEL PLAN

Elizabeth Krafft and Tom Shepherd reported on this item. Staff is coordinating with SLO County staff, the bands are up and everything has been going well. There are still plans for staff to visit Lopez and Margarita Lakes and check out the inspection methods there.

D. UPDATE ON SLO COUNTY ACTIVITIES

Paavo Ogren, San Luis Obispo County (SLO), reported. Staff has a barge on the lake, as part of the repair work on the intake tower, and will occur until the end of March or longer, as there will also be other repairs made. Heritage Ranch Community Services District has received approval from NRWAC to connect to the SLO pipeline for emergency situations therefore, their request to the Agency is withdrawn (Item 8 pulled from agenda). At Oak Shores, buoys have been installed and will be removed after the rainy season. They will be placed again next winter. SLO staff has obtained an engineering firm to determine the next steps for a new collection system, and the Committee will be provided with an update when a final report is ready.

7. DISCUSS POSSIBLE RELEASE SCENARIO OPTIONS FOR NON-SALINAS VALLEY WATER PROJECT WATER DELIVERY SEASON

This was discussed in Item 4; any future discussion will now be included in Item 4.

This item has been pulled: 8. DISCUSS EMERGENCY WATER SUPPLY REQUEST BY HERITAGE RANCH COMMUNITY SERVICES DISTRICT (HRCSD- see statement in Item 6D.

8. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday, March 7, 2013 at 1:30 p.m. at the Agency. Items for discussion include the June trip to reservoirs.

9. ADJOURNMENT BY CHAIR KEN EKELUND @ 2:35 P.M.

SUBMITTED BY: TERESA CAMPA



WATER RESOURCES AGENCY

MEMORANDUM

Monterey County

DATE: February 27, 2013

TO: Reservoir Operations Committee

FROM: Howard Franklin

SUBJECT: Reservoir Release Update

RESERVOIR ELEVATION / STORAGE: As of the date of this memorandum, San Antonio Reservoir is at approximately 747.55 feet mean sea level (msl), 187,358 acre-feet of storage. Nacimiento Reservoir is at elevation 758.25 feet msl, 180,288 acre-feet of storage. San Antonio Reservoir is currently at 56% of storage capacity and Nacimiento Reservoir is at 48% of capacity.

RESERVOIR RELEASES: October 19, 2012 marked the end of the 2012 Diversion Season at the Salinas River Diversion Facility (SRDF). Impoundment of water at the SRDF ended on November 15, 2012 and the gates were completely lowered.

On December 4, 2012 storm activity prompted the breaching of the Salinas River Lagoon. With diminishing natural flows, the river mouth closed to the ocean on December 21st. Five days later, on December 26th, winter storm activity resulted in a reopening of the lagoon to the ocean. On January 28, 2013 the lagoon mouth closed to the ocean.

Releases from Nacimiento Reservoir were reduced to minimum fisheries flows on October 23, 2012. Releases from San Antonio Reservoir were reduced to minimum fisheries flows on October 29, 2012.

Current releases are as follows:

Nacimiento Reservoir:	60 cfs
San Antonio Reservoir:	10 cfs

Total releases from both reservoirs to the Salinas River are approximately 70 cfs. As of the date of this memorandum the following “provisional” flows have been recorded by the USGS and/or Agency:

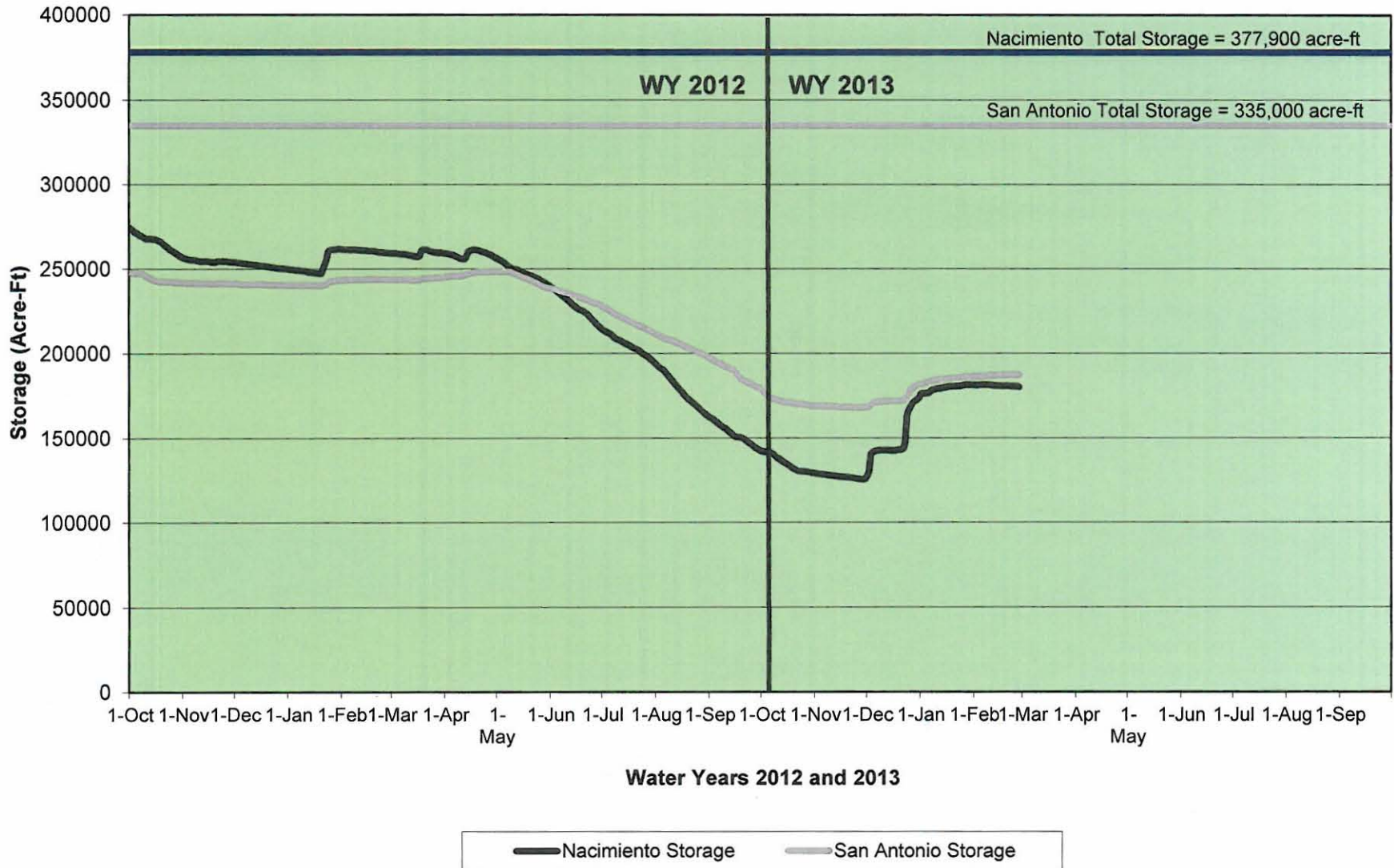
- Salinas River near Spreckels: <1 cfs (pooling – no flow)
- Salinas River near Chualar: 12 cfs (declining)
- Salinas River near Soledad: 40 cfs (declining)
- Salinas River near Bradley: 84 cfs (steady)

Synopsis of Reservoir Release Changes from November 29, 2012 to February 27, 2013

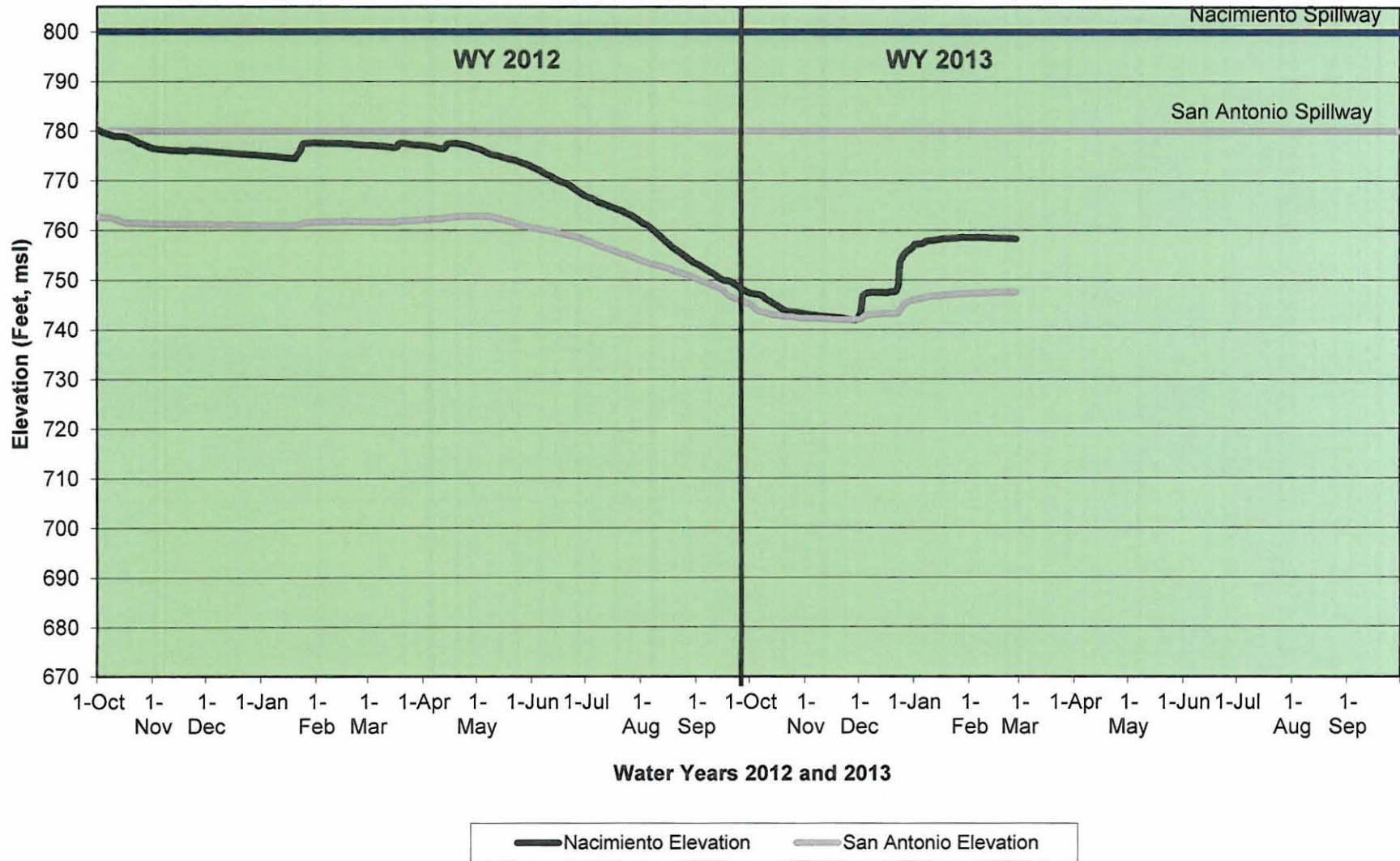
	San Antonio Reservoir		Nacimiento Reservoir		
	Date	Starting Flow	Ending Flow	Starting Flow	
November 29, 2012	10	10	100	60	70
February 11, 2013*	10	10	60	59	69
February 12, 2013*	10	10	59	71	81
February 13, 2013*	10	10	71	69	79
February 14, 2013*	10	10	69	68	78
February 15, 2013*	10	10	68	64	74
February 16, 2013*	10	10	64	63	73
February 26, 2013*	10	10	63	62	72
February 27, 2013*	10	10	62	60	70

*Operating releases through Nacimiento High Level Gates; Reporting Provisional mean daily flow at USGS Gage, Nacimiento River below Nacimiento Dam near Bradley

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after Feb. 1st

2/6/2013

RESERVOIR RELEASE SCHEDULE FOR 2013

	NACIMIENTO									SAN ANTONIO				
	Combined Releases (cfs)*	Combined Releases (ac-ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	NWP Orders (ac-ft)	NWP Diversions (ac-ft)	Storage (ac-ft)	Elev. (ft)	Evap. Losses (ac-ft)**	Reservoir Releases (cfs)*	Reservoir Releases (ac-ft)	Storage (ac-ft)	Elev. (ft)
1/1/2013	70	4,340	396	60	3,720	776	8	176,101	757.1	397	10	620	181,623	746.0
2/1/2013	72	4,032	782	62	3,472	1,037	TBR	181,225	758.5	720	10	560	186,445	747.3
3/1/2013						1,033		180,288	758.3				187,358	747.6
4/1/2013						1,133								
5/1/2013						1,166								
6/1/2013						1,258								
7/1/2013						2,035								
8/1/2013						2,094								
9/1/2013						1,880								
10/1/2013						1,240								
11/1/2013						1,253								
12/1/2013						844								
1/1/2014														
TOTALS:		8,372	1,178		7,192	15,750	8			1,117		1,180		

* Mean daily flow for the month in cubic feet per second.

** Evap. Losses calculated from pan evaporation data at Nacimiento and San Antonio Reservoirs. Estimated from long term data after: Feb. 1st

NOTES:

- Nacimiento Reservoir storage capacity 377,900 acre feet.
- San Antonio Reservoir storage capacity 335,000 acre feet.
- Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
- Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.
- Preliminary Schedule assumes no inflow to reservoirs after May 1st.
- "NACIMIENTO "NWP Diversions" are San Luis Obispo County - Nacimiento Water Project conveyance facilities diversions. Max. allowable diversions for water year (Oct. 1 - Sept. 30) are 15,750 ac-ft. To Be Reported (TBR)