

**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, May 2, 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 APRIL 11, 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 and a proposed Reservoir Release Schedule for this conservation period (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
  - E. UPDATE ON THE BOAT DOCK ORDINANCE REVAMP
  
7. **DISCUSS LOGISTICS FOR THE JUNE COMMITTEE MEETING**  
Staff and the Committee will discuss logistics for the June Committee meeting, which is usually held at one of the reservoirs, and includes a visit to Agency facilities.
  
8. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**  
The Committee will discuss and determine details for its next meeting.
  
9. **ADJOURNMENT**

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

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

John Baillie  
Benny Jefferson  
Paavo Ogren  
Tom Shepherd  
Randy Korsgaard

**TIME:** 1:30 p.m.  
**DATE:** **Thursday, April 11, 2013**  
**PLACE:** Monterey County Water Resources Agency  
Board Room  
893 Blanco Circle  
Salinas, CA 93901  
(831) 755-4860

MINUTES

1. **CALL TO ORDER @ 1:33 p.m. by Chair David Hart.**  
Members present: David Hart, Ken Ekelund, Fred Ledesma, Mark Nielsen, John Baillie,  
Dean Benedix (alternate for Paavo), Tom Shepherd, Benny Jefferson  
Members absent: David Pozzi, Randy Korsgaard

A quorum was established.

2. **PUBLIC COMMENT**  
None.
3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE HELD ON MARCH 7, 2013**

**Committee Action: On motion and second of Committee members John Baillie and Benny Jefferson the Committee unanimously approved the minutes.**

4. **REVIEW STATUS OF BOTH RESERVOIRS; AND, REVIEW RELEASES AND RELEASE SCHEDULE / DISCUSS POSSIBLE RELEASE OPTIONS**  
Howard Franklin, Senior Water Resources Hydrologist/Program Manager, provided a status report. Maintenance is being performed on the Low Level gates at Nacimiento, so they are currently not useable for releases. Releases, therefore are being made from the high level gates at 60 cfs and will continue until the reservoir's water surface elevation reaches 755.00 feet; which is estimated to be reached on or around May 1.

San Antonio releases are 325 cfs.

The SRDF was raised on April 8 and water deliveries began on April 10. There was a question regarding block flow releases and the possibility of having to do a block flow release this season. Staff explained that a block flow release is an engineered release to emulate a natural event that would help stimulate steelhead migration downstream. The parameters of a block flow release requires maintaining approximately 700 cfs at Soledad for five (5) days and 300 cfs at Spreckels for fifteen (15) days – this could equate to (depending on the annual conditions) approximately 30,000 acre-feet of water from the reservoirs.

The Committee reviewed and discussed Reservoir Release Schedule options. After evaluating both options and no consensus was reached, Committee agreed to discuss the Reservoir Release Schedule further at next month's meeting, at which time a motion will be made to the Agency Board of Directors.

**NACIMIENTO** elevation is 757.40 feet and 177,184 acre-feet of storage, 47% of capacity, and current release is 60 cfs.

**SAN ANTONIO** elevation is 742.75 feet and 170,438 acre-feet of storage, 51% of capacity, and current release is 325 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 Dam was inspected last week by the Division of Safety of Dams (DSOD), and passed inspection; DSOD praised the crew for keeping the dam well maintained. Nacimiento Dam was also inspected, and due to the maintenance and repair activities, DSOD had concerns, especially with the Obermeyer Weir. They provided some recommendations for Nacimiento which will be shared with the Committee.

At the Low Level Outlet Works, one rebuilt actuator was reinstalled two weeks ago and the other two are being rebuilt and will be reinstalled the week of April 22, 2013. On the downstream side of the Nacimiento Hydroelectric Powerplant, various components are being repaired or serviced and the target date for reassembly is May 30. The repairs on the Low Level Outlet Works are scheduled to be completed by May 1.

**6. RECEIVE REPORTS ON STATUS OF:**

**A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT**

Tom Shepherd of the Monterey County Parks Department provided a report. Staff is currently preparing for the San Antonio Wildflower Festival scheduled for May 2013 which is expected to draw up to 20,000 visitors/participants. Preparations are also underway for a Mud Run event scheduled for the previous weekend and is expected to draw as many as 500 visitors. The Parks Department recently purchased a new Patrol Boat via a grant from the Department of Boating and Waterways. Other activities include interviews that are being held for the recruitment of seasonal employees, and the resorts making preparations to open for the season.

**B. EASEMENTS AND AGENCY LEASES**

Chris Keehn, Right-Of-Way Specialist, provided an update to the Committee. The South Nacimiento Road Association will be having the trees trimmed at Lease #3 at South Nacimiento, due to overhanging of the trees intruding on the easement area.

**C. QUAGGA / ZEBRA MUSSEL PLAN**

Tom Shepherd and Rob Johnson, Assistant General Manager / Chief of Water Resources Management, provided an update on AB 2443 which approves the collection of registration fees by the Department of Boating and Waterways to support the Quagga and Zebra Mussel Infestation Prevention Plan. Mr. Johnson has been appointed to the State Technical Advisory Group (TAG) that has been formed as part of the prevention planning efforts. The first meeting is being held Monday April 15 in Sacramento. Also, a Mussel Summit is scheduled for May in Folsom, CA and attending will be Elizabeth Krafft from the Agency, and Casey Nielsen from the Parks Department.

Dean Benedix, P.E., SLO County Dept of Public Works also provided an update. SLO will be conducting a re-certification program for vessel inspectors. This will be the third season that staff from SLO has conducted vessel inspections at the lakes.

**D. UPDATE ON SLO COUNTY ACTIVITIES**

Dean Benedix, P.E., provided an update on the Nacimiento Water Project intake repairs. Due to technical difficulties the repairs are behind schedule and are targeted to be completed in late April or early May 2013. Upon completion of the repairs the pipeline can begin to be filled which will take a couple of days before water deliveries can resume, which is estimated to be around the first week in May.

**7. DISCUSS LOGISTICS FOR THE JUNE COMMITTEE MEETING**

The Committee discussed possible options for the June meeting at the reservoirs. Ideas included a boat tour of Nacimiento, and/or inspection of the San Antonio control house and tunnel. The meeting would be held in the Admin Room at Nacimiento. The Agency will provide a car pool from the Agency.

**8. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**

The next meeting is scheduled for Thursday, May 2, 2013 at 1:30 p.m. at the Agency. Agenda items will include voting on an option for the reservoirs release schedule, boat dock ordinance update, and finalize the logistics for the June meeting.

**9. ADJOURNMENT BY CHAIR DAVID HART @ 3:05 P.M.**

**SUBMITTED BY: TERESA CAMPA**



WATER RESOURCES AGENCY

MEMORANDUM

Monterey County

DATE: April 24, 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 739.9 feet mean sea level (msl), 160,825 acre-feet of storage. Nacimiento Reservoir is at elevation 756.9 feet msl, 175,379 acre-feet of storage. San Antonio Reservoir is currently at 48% of storage capacity and Nacimiento Reservoir is at 46% of capacity.

**RESERVOIR RELEASES:** Conservation releases to the Salinas River continued during the month of April for aquifer recharge and Salinas River Diversion Facility operations. Nacimiento Reservoir releases remain at minimum fisheries releases of 60 cfs as maintenance activities at Nacimiento Dam have constrained releases to the High Level Gates. The inflatable dam at the SRDF was raised on April 8, 2013. Pumping for irrigation delivery began on April 10, 2013.

Current releases are as follows:

Nacimiento Reservoir:	60 cfs
San Antonio Reservoir:	465 cfs

Total releases from both reservoirs to the Salinas River are approximately 525 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: 27 cfs (increasing)
- Salinas River near Chualar: 79 cfs (steady)
- Salinas River near Soledad: 202 cfs (steady)
- Salinas River near Bradley: 516 cfs (steady)



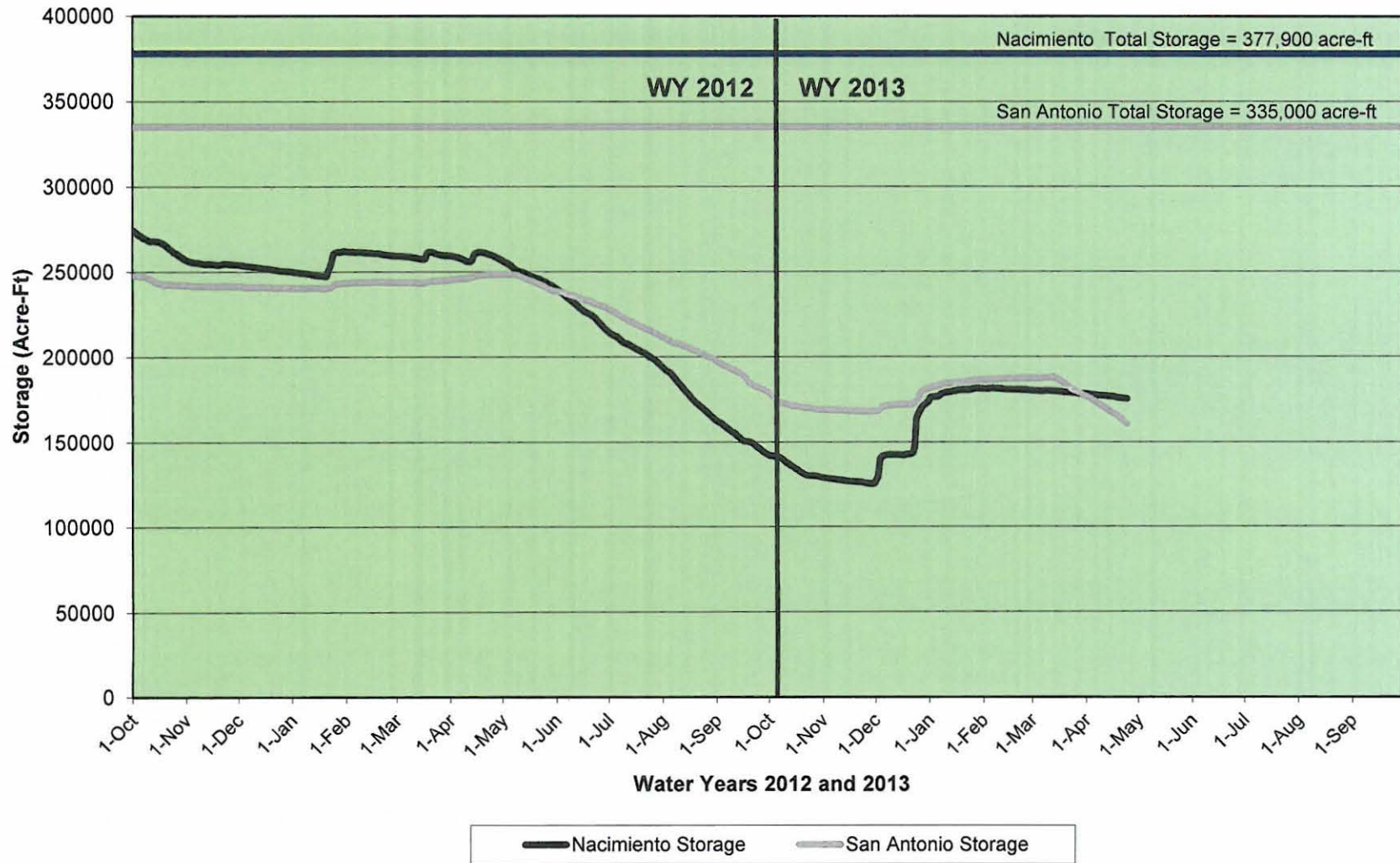
## Synopsis of Reservoir Release Changes from March 13, 2013 to April 23, 2013

Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
March 13, 2013*	10	200	60	60	260
March 14, 2013*	200	300	60	60	360
March 18, 2013*	300	400	60	60	460
March 19, 2013*	400	500	60	60	560
March 19, 2013**	500	400	60	60	460
March 25, 2013*	400	200	60	60	260
March 26, 2013*	200	160	60	60	220
March 27, 2013*	160	250	60	60	310
March 29, 2013*	250	275	60	60	335
April 2, 2013*	275	325	60	60	385
April 18, 2013*	325	365	60	60	425
April 19, 2013*	365	440	60	60	500
April 23, 2013*	440	465	60	60	525

\*Operation of Nacimiento Releases through high level gates result in minor discharge variations; as noted in the reported Provisional Mean Daily Flow at the USGS Gage, Nacimiento River below Nacimiento Dam near Bradley, and as indicated in this table. These variations will be recorded by the Agency but no longer reported in this document unless the magnitude of the change is greater than +/- 10% of target release (currently 60 cfs).

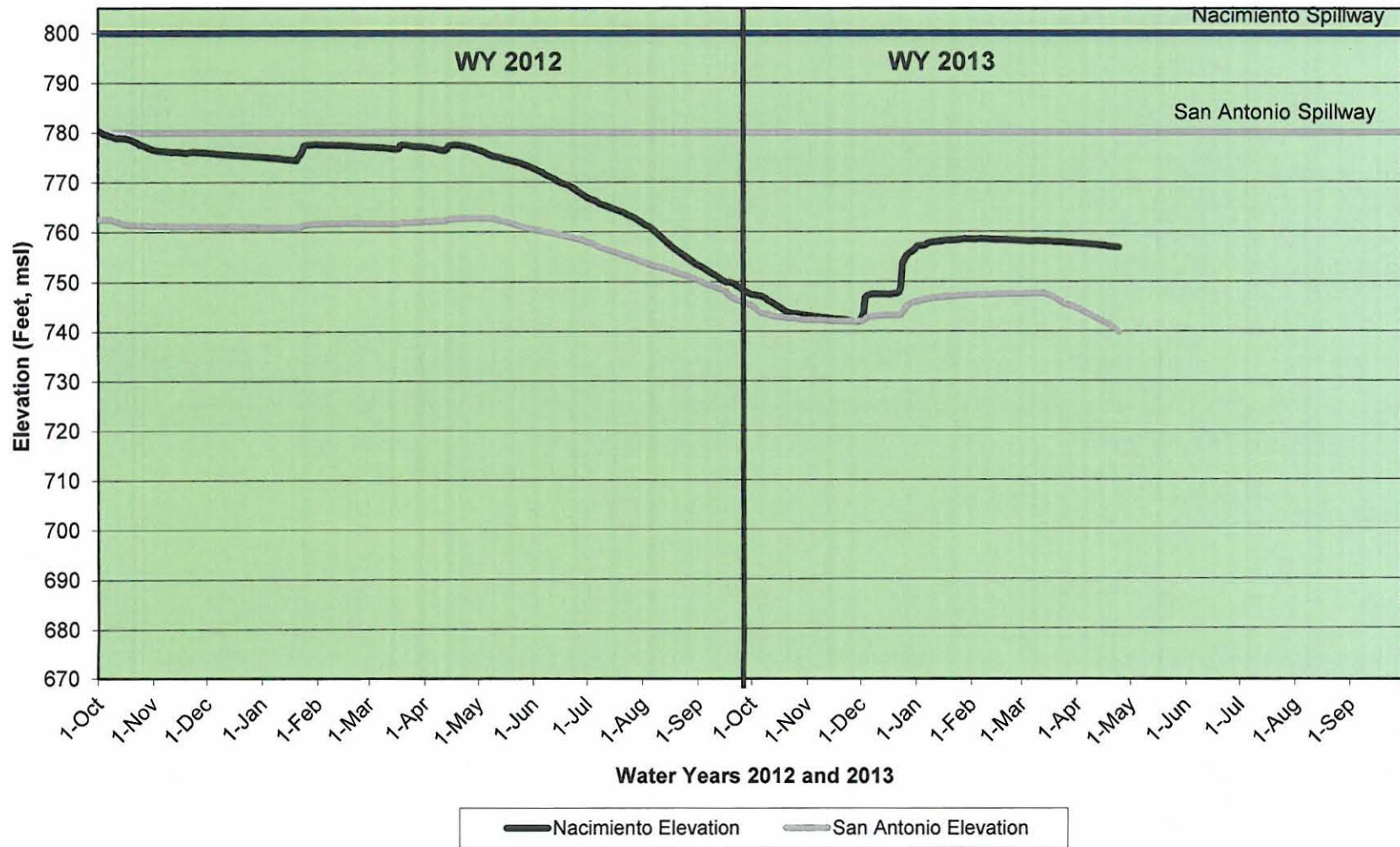
\*\*Increased releases from San Antonio Reservoir to 500 cfs for approximately five hours then reduced releases back to 400 cfs.

## Reservoir Storage





## Reservoir Elevation



**MONTEREY COUNTY WATER RESOURCES AGENCY**

**PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after April 1<sup>st</sup>**

4/24/2013

	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	0	181,225	758.5	431	10	560	186,445	747.3
3/1/2013	318	15,676	974	63	3,892	1,033	0	180,288	758.3	830	255	11,784	187,358	747.6
4/1/2013								178,087	757.7				176,675	744.6
5/1/2013						1,133								
6/1/2013						1,166								
7/1/2013						1,258								
8/1/2013						2,035								
9/1/2013						2,094								
10/1/2013						1,880								
11/1/2013						1,240								
12/1/2013						1,253								
1/1/2014						844								
<b>TOTALS:</b>		<b>24,048</b>	<b>2,152</b>		<b>11,084</b>	<b>15,750</b>	<b>8</b>			<b>1,658</b>		<b>12,964</b>		

\* 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: April 1st

1. Nacimiento Reservoir storage capacity 377,900 acre feet.

2. San Antonio Reservoir storage capacity 335,000 acre feet.

3. Reservoir Operations Committee may make release considerations for fish spawn and holiday periods to benefit recreation.

4. Shaded areas represent periods when elevations are influenced by inflow/runoff; releases may include flood control releases.

5. Preliminary Schedule assumes no inflow to reservoirs after May 1st.

6. "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)

**NOTES:**