

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

COMMITTEE MEMBERS

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

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

TIME: 1:30 pm
DATE: Thursday, October 3, 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 MEETING HELD ON SEPTEMBER 12, 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 (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. WINTER WEATHER OUTLOOK FOR 2013-2014**

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**

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TIME: 1:30 p.m.
DATE: **Thursday, September 12, 2013**
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. CALL TO ORDER @ 1:30 p.m. by Vice-Chair Ken Ekelund.

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

A quorum was established.

2. PUBLIC COMMENT

Vice-Chair Ekelund introduced new Committee member (and new Board member) Mark Gonzales.

3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE HELD ON AUGUST 8, 2013

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

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, provided a status report. The emergency repairs at the Nacimiento Hydroelectric Powerplant have been completed, and 370 cfs is currently being released from Nacimiento. The normal release situation has resumed; maximizing releases from Nacimiento and providing supplemental

flows from San Antonio to meet the SRDF demands. Due to decreasing SRDF demands, releases from both reservoirs are being adjusted today and the total release will be 610 cfs.

The regulatory agency, Division of Safety of Dams, (DSOD) has requested the Agency to inspect the inlet structure of the outlet at San Antonio. The structure is 3.35 feet above the minimum pool and can be inspected at minimum pool. If upon inspection it is determined that repairs are necessary, additional releases must be made to fully expose the structure to allow repairs to be made.

The Committee discussed options presented for this current situation. The recommended option is that when San Antonio reaches minimum pool (in about 1½ weeks) reduce the releases to 10 cfs which will end the SRDF operations for the season. Once San Antonio is reduced to 10 cfs, there would not be enough water to reach the SRDF.

NACIMIENTO elevation is 741.85 feet and 125,043 acre-feet of storage, 33% of capacity, and current release is 370 cfs from Unit #1.

SAN ANTONIO elevation is 672.05 feet and 28,345 acre-feet of storage, 8% of capacity, and release will be decreased to 240 cfs today.

Committee Action: On motion and second of Committee members John Baillie and Benny Jefferson the Committee unanimously approved to continue releases from San Antonio in order to facilitate the inspection, and repairs if necessary, and to support continuous flows to meet SRDF demands.

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

Brent Buche, Assistant General Manager & Chief of Operations and Maintenance, provided an update. The Nacimiento Hydroelectric Powerplant has been repaired and is now fully operational, as of August 30, 2013. The cost breakdowns are being finalized and staff is coordinating with insurance representatives on reimbursements. During the disassembly of the Francis Turbine, additional components were found to be in need of repair, which were unrelated to the damage. Some of the additional items that were replaced were the cooling line, and a heat exchanger. Staff is developing a new Maintenance Manual for the various components of the Hydroplant. The Committee requested they review this document. An inspection by the Federal Energy Regulatory Commission (FERC) is scheduled to be conducted later this month.

The power purchase agreement with the City of Corona fell through after details became publicized. The Agency has obtained an interim Power Purchase Agreement with another company called 3-Phases, until December 31, 2013 and staff is looking at other options for obtaining a long-term power purchase agreement by January 2014. Agency staff is seeking direction from County Counsel on confidentiality issues pertaining to such contracts.

San Antonio activities details were discussed in the previous Item's discussion.

6. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Tom Shepherd, Monterey County Parks Department provided a status report on lake recreation activities. Activities include evaluation of staffing, providing correct information to the public about the North Shore closure, and working to accommodate guests.

There was a comment about the facilities at San Antonio needing maintenance and that there are negative reviews on the internet. Tom stated that the budget for Parks has been reduced and funds are used for emergency repairs such as pumps, motors, wells, and electrical, and there are currently no funds available for improvements.

B. EASEMENTS AND AGENCY LEASES

Chris Keehn, Right-Of-Way Specialist, provided an update to the Committee. As was reported last month, SLO Cal Poly had collected samples from a selected site on Agency land to test for Sudden Oak Death Syndrome (SODS). The results came back negative.

The Lessee from Nacimiento Lease #2 will be removing a concrete boat dock ramp from the area. The ramp had been built illegally on Agency's land, by another person, prior to the current Lessee's term. A credit/lease fee reduction for the work will be applied to Lessee #2.

C. QUAGGA / ZEBRA MUSSEL PLAN

Elizabeth Krafft, Senior Hydrologist, provided an update. The possibly-contaminated water craft that staff reported on last month was actually a Jet-Ski that was quarantined. The tests for Quagga mussels turned up negative; the deposits were determined to be calcium build-up. Staff from the state Fish & Wildlife Department conducted mussel plankton tows during the summer and the results have all been negative. Agency staff is scheduled to conduct an additional plankton tow in September or October.

As part of the EPA Superfund cleanup at Klau Buena Vista Mine, which is located above Nacimiento, sediment samples will be collected at Nacimiento and Las Tablas Creek this fall.

D. UPDATE ON SLO COUNTY ACTIVITIES

No report provided.

7. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday, October 3, 2013 at 1:30 p.m. at the Agency. The Agenda will include the winter weather outlook for 2013-2014.

8. ADJOURNMENT BY VICE-CHAIR KEN EKELUND @ 2:54 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	October 3, 2013	AGENDA ITEM:	
AGENDA TITLE:	RESERVOIR RELEASE UPDATE		
Consent ()		Action ()	
Information (X)			
SUBMITTED BY:	Howard Franklin	PREPARED BY:	Howard Franklin
PHONE:	(831) 755-4860	PHONE:	(831) 755-4860
DEADLINE FOR BOARD ACTION:		October 3, 2013	

RECOMMENDED BOARD ACTION:

None – item presented for informational purposes

PRIOR RELEVANT BOARD ACTION:

None – the Board of Directors receives monthly updates on the Agency’s reservoir status

DISCUSSION/ANALYSIS:

RESERVOIR ELEVATION / STORAGE: As of September 25, 2013, San Antonio Reservoir is at approximately 664.7 feet mean sea level (msl), 22,125 acre-feet of storage. Nacimiento Reservoir is at elevation 738.35 feet msl, 114,615 acre-feet of storage. San Antonio Reservoir is currently at 7% of storage capacity and Nacimiento Reservoir is at 30% of capacity.

RESERVOIR RELEASES: Conservation releases to the Salinas River continue during the month of September for aquifer recharge and Salinas River Diversion Facility operations. The Agency is currently maximizing releases through the Nacimiento Hydroelectric Plant at a rate of approximately 360 cfs. Releases of approximately 175 cfs from San Antonio Reservoir result in a total combined release rate from both reservoirs of 535 cfs.

Releases as of September 25, 2013:

- Nacimiento Reservoir: 360 cfs
- San Antonio Reservoir: 175 cfs

Total releases from both reservoirs to the Salinas River are approximately 535 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 40 cfs (steady)
- Salinas River near Chualar: 78 cfs (steady)
- Salinas River near Soledad: 208 cfs (steady)
- Salinas River near Bradley: 469 cfs (steady)

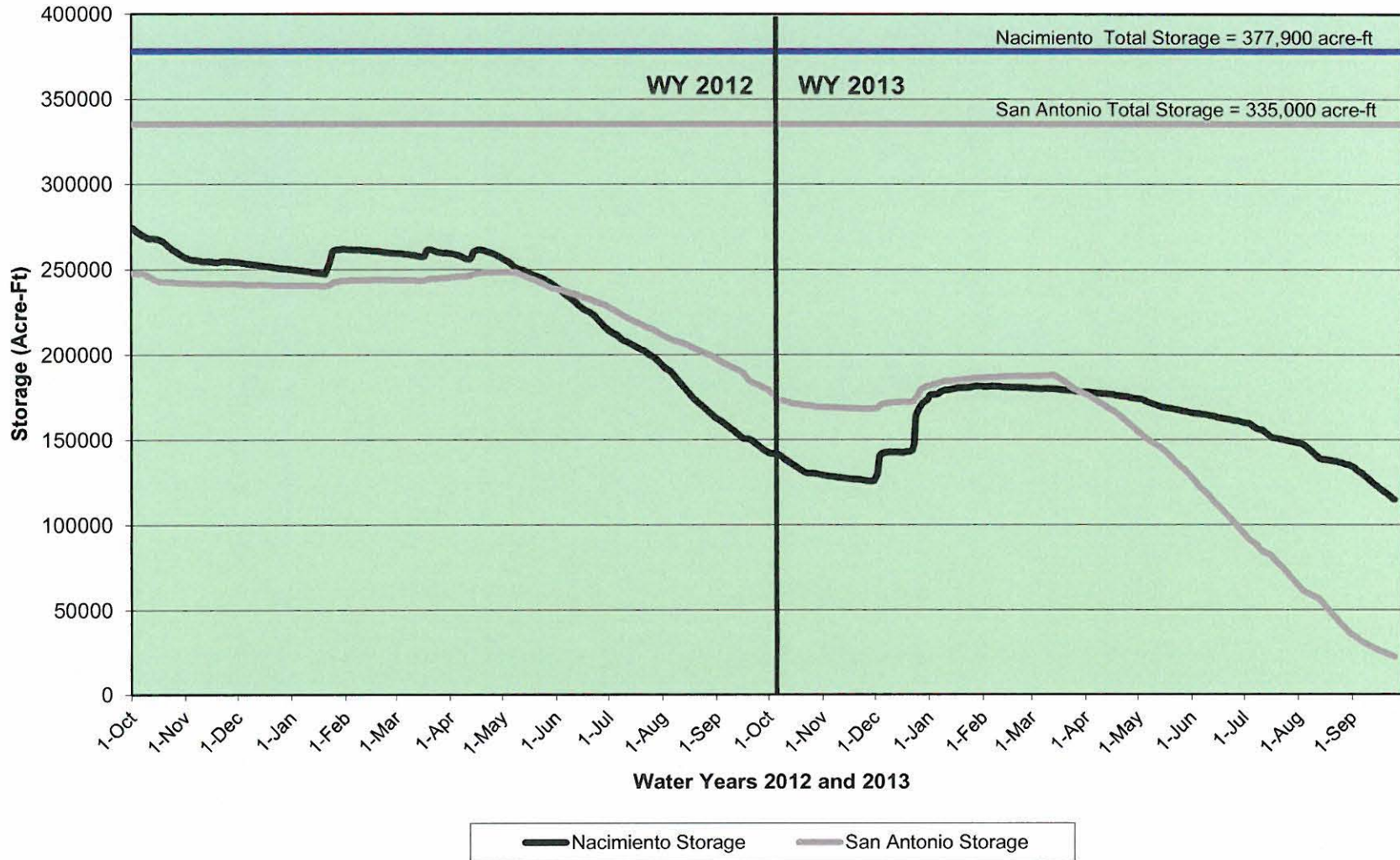
Synopsis of Reservoir Release Changes from August 3, 2013 to September 25, 2013

Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
August 3, 2013	615	415	*	57	472
August 4, 2013	415	415	*	304	719
August 5, 2013	415	245	*	373	618
August 7, 2013	245	270	410	410	680
August 12, 2013	270	370	410	310	680
August 13, 2013	370	620	310	150	770
August 14, 2013	620	620	*	39	659
August 16, 2013	620	590	*	62	652
August 26, 2013	590	440	*	152	592
August 27, 2013	440	590	*	194	784
August 30, 2013	590	280	60	370	650
September 3, 2013	280	500	370	220	720
September 4, 2013	500	564	*	139	703
September 5, 2013	564	290	60	370	660
September 12, 2013	290	240	370	370	610
September 16, 2013	240	225	370	370	595
September 17, 2013	225	225	370	360**	585
September 19, 2013	225	200	360	360	560
September 23, 2013	200	175	360	360	535

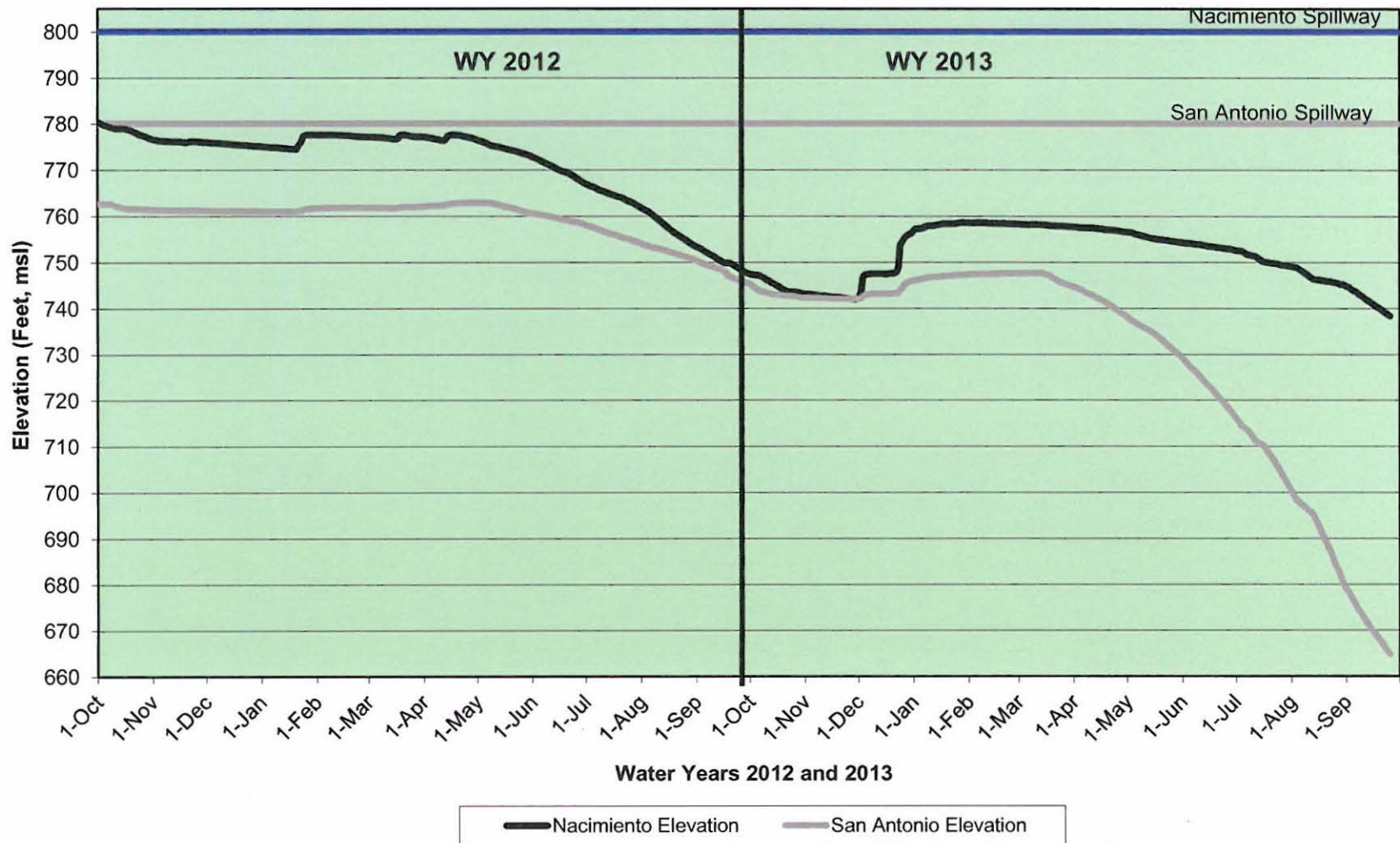
* Release rates will fluctuate while repair work is being performed on the Nacimiento hydroelectric facility. Daily reservoir releases will be reported as mean daily flow at the USGS gage Nacimiento River below Nacimiento Dam during the repair period.

**Reduction of release output due to head loss.

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

PROPOSED RELEASE SCHEDULE - Estimated Elevation/Storage/NWP Diversions; after September 1

9/25/2013

	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	4,304	446	60	3,689	776	8	176,101	757.1	397	10	615	181,623	746.0
2/1/2013	72	3,999	579	62	3,443	1,037	0	181,225	758.5	431	10	555	186,445	747.3
3/1/2013	255	15,658	974	63	3,874	1,033	0	180,288	758.3	830	192	11,784	187,358	747.6
4/1/2013	436	25,934	1,200	62	3,679	1,133	0	178,087	757.7	1,284	374	22,255	176,675	744.6
5/1/2013	529	32,522	2,450	112	6,867	1,166	99	173,935	756.5	2,282	417	25,655	154,493	738.0
6/1/2013	601	35,763	2,930	49	2,916	1,258	561	165,632	754.2	2,388	552	32,847	127,265	728.9
7/1/2013	640	39,346	3,220	149	9,134	2,035	903	159,748	752.6	2,213	491	30,212	94,000	715.8
8/1/2013	668	41,060	2,860	180	11,062	2,094	956	147,720	749.1	1,410	488	29,998	63,800	700.0
9/1/2013	594	35,346	1,993	350	20,827	1,880	1,880	133,888	744.8	691	244	14,519	34,725	678.5
10/1/2013	427	26,256	1,237	337	20,722	1,240	1,240	109,188	736.4	338	90	5,534	19,515	661.2
11/1/2013	70	4,165	578	60	3,570	1,253	1,253	85,989	727.5	151	10	595	13,642	651.6
12/1/2013	60	3,689	363	60	3,689	844	844	80,587	725.2	91	0	0	12,896	648.4
1/1/2014								75,690	723.1				12,805	645.0
TOTALS:		268,042	18,832		93,472	15,750	7,744			12,507		174,570		

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

** Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs.

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.
- "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)
- NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.