

**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)
Tim Colvin (CalParks)

TIME: 1:30 pm
DATE: Thursday, January 9, 2014
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 DECEMBER 5, 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. UPDATE ON WINTER OUTLOOK**

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
Fred Ledesma
Mark Nielsen
David Pozzi
Mark Gonzales

John Baillie
Benny Jefferson
Paavo Ogren
Tom Shepherd (Parks)
Tim Colvin (CalParks)

TIME: 1:30 p.m.
DATE: **Thursday, December 5, 2013**
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. CALL TO ORDER @ 1:38 p.m. by Vice Chair Ken Ekelund.

Members present: Ken Ekelund, Mark Nielsen, Mark Gonzales, John Baillie,
Dean Benedix (*for Paavo Ogren*), Tom Shepherd, and
Tim Colvin (CalParks)

Members absent: David Hart, Fred Ledesma, David Pozzi, and Benny Jefferson

Public present: Mike Ferry (Monterey County Parks Department),
Mark Sandoval (CalParks)
Phil Humphrey

A quorum was established.

2. PUBLIC COMMENT

Rob Johnson stated he and Elizabeth Krafft would need to leave early for another meeting.

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

Committee Action: On motion and second of Committee members John Baillie and Mark Gonzales, 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 Salinas River Diversion Facility water delivery ended October 11 and the inflatable dam was lowered on November 8. Both reservoirs are currently at minimum fisheries releases. The Committee reviewed reservoir elevations, inflows, and release projections for winter 2013-2014 for Nacimiento and San Antonio. The Committee expressed concerns about the availability of water for the next SRDF season and staff stated this will be discussed at the Water Quality & Operations Committee.

The weather outlook for December/January/February will consist of El Nino neutral conditions of normal to below-normal. December will be 70-80% of normal, January 95-115%, and February 75-85% of normal. Staff will provide a three-month outlook to the Committee each month, during the winter.

NACIMIENTO elevation is 729.30 feet and 90,435 acre-feet of storage, 24% of capacity, and current release is 60 cfs.

SAN ANTONIO elevation is 656.90 feet and 16,585 acre-feet of storage, 5% of capacity, and current release is 10 cfs. San Antonio is at minimum pool.

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

Brent Buche, Assistant General Manager and Chief of Operations and Maintenance, provided an update on operations and maintenance activities at the reservoirs. A Survey of the staff gages was conducted at both lakes and new gages will be installed. An inspection of Nacimiento Dam will be conducted by the Federal Energy Regulatory Commission (FERC) in early January 2014. At San Antonio staff is evaluating the outlet structure, trash racks, and the bulkhead. The trash racks have corrosion, and staff is discussing possibly replacing the bulkhead. Evaluation is also being done inside the tunnel where there has been historic leakage around the vent.

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. There was introduction of Mark Sandoval, CalParks who is stationed at Nacimiento. Activities at the lakes include frost protection duties due to the recent cold weather. Other activities include painting, cleaning, and fixing bathroom facilities. A second lake clean-up day took place at San Antonio that included volunteers from boy/girl scout groups, and 4H clubs. There have been requests from the public interested in participating in the lake clean-up. There are still sunken boats and other large items on the lake bottom that need removal. Other activities include budgeting, preparing for low water levels for next season, and discussing the 2014 Wildflower/Triathlon Festival. Staff has met with a concert promoter to discuss the rental of North Shore at San Antonio for the 2014 Memorial Day weekend.

Mark Sandoval reported that there were a lot of campers at San Antonio over the Thanksgiving holiday weekend.

Announcements about the lake clean-up day were placed on the Cal Parks and Parks Department websites, and flyers were posted. The Committee suggested advertising in local television stations.

B. EASEMENTS AND AGENCY LEASES

Brent Buche provided an update to the Committee. There have been problems with trespassing and poaching at San Antonio. The Committee asked when the *No Trespassing* signs will be posted at San Antonio and staff stated they will be posted by the leaseholder when clearance is obtained from County Counsel.

Phil Humfrey stated he is President of the South Nacimiento Road Association (SNRA), which consists of 585 property owners, and suggested placing advertisement in the monthly newsletters in an effort to get member participation in the lake cleanup. A statement about the restrictions of easements can also be included in the newsletter. As per an agreement, the SNRA is responsible for maintaining the roads and as much as \$150,000 is spent annually on maintenance of roads located on Agency land.

C. QUAGGA / ZEBRA MUSSEL PLAN

Tom Shepherd provided an update. All boat ramps at the reservoirs have been closed but staff continues to inspect smaller carry-in watercraft such as kayaks.

Brent Buche stated that the new boat license stickers being issued state that the holder has paid the mussel fee and “*authorizes you to place your boat in any reservoir in the state of California*”. The fee is not intended to provide exemption from vessel inspections; it is collected with the annual boat license fee and goes into a fund for mussel prevention programs. Staff worried about the public misinterpreting this as an exemption from inspections.

Phil Humfrey stated that staff from SLO & Monterey Counties is holding coordination meetings and the next is scheduled for December 18, 2013. Staff from NRWMAC, SLO County, Santa Barbara County and the Agency is working with the State on forming a consortium that will coordinate on obtaining grant money from the mussel prevention program fund.

Dean Benedix reported that staff will be reviewing the residential vessel program and making necessary changes including providing clarification about the new boat stickers. Random boat inspections were conducted recently and all were in compliance.

D. UPDATE ON SLO COUNTY ACTIVITIES

Dean Benedix, P.E., Utilities Division Manager, SLO County Public Works, provided an update on SLO County activities. There are four primary agencies who have participated in the Nacimiento Water Project who want to take the allocated water. Paso Robles Water Treatment will be coming on-line in summer 2014 and Heritage Ranch will be installing a turn-out to be used for water supply for emergency situations.

SLO County is working on a risk assessment of the wastewater collection line for Oak Shores located in the lake bottom and developing a program to discontinue the usage of the existing sewer line and relocation.

7. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**
The next meeting is scheduled for Thursday, January 9, 2014 at 1:30 p.m. at the Agency.
8. **ADJOURNMENT BY VICE-CHAIR KEN EKELUND @ 2:39 P.M.**

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	January 9, 2014	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:	January 9, 2014		

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 January 2, 2014 San Antonio Reservoir is at approximately 656.55 feet mean sea level (msl), 16,358 acre-feet of storage. Nacimiento Reservoir is at elevation 727.6 feet msl, 86,270 acre-feet of storage. San Antonio Reservoir is currently at 5% of storage capacity and Nacimiento Reservoir is at 23% of capacity.

RESERVOIR RELEASES: Releases from both reservoirs are being made to meet minimum fisheries flow requirements.

Releases as of January 2, 2014:

- Nacimiento Reservoir: 60 cfs
- San Antonio Reservoir: 10 cfs

Total releases from both reservoirs to the Salinas River are approximately 70 cfs. The following “provisional” flows have been recorded by the USGS:

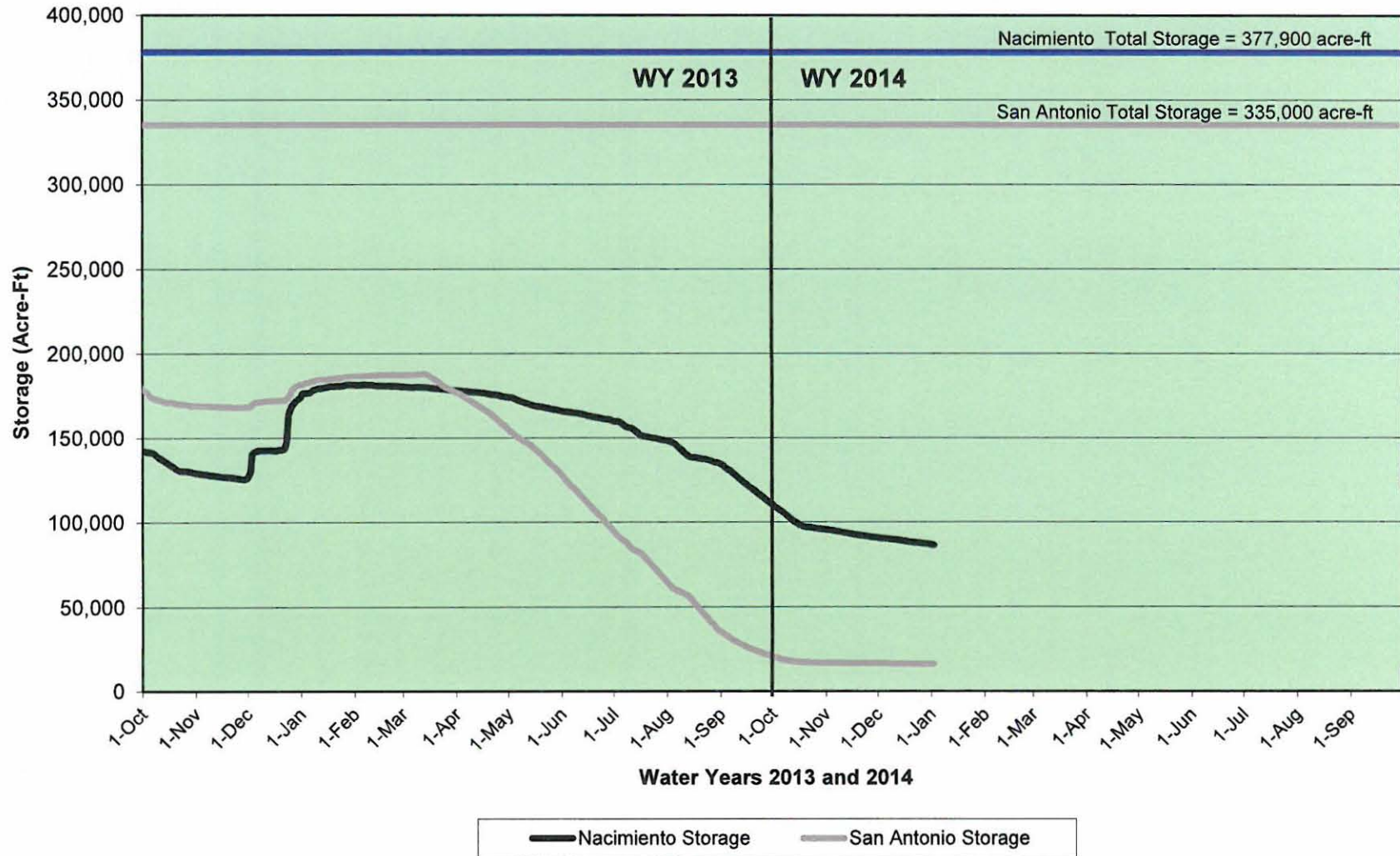
- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 68 cfs (steady)

**Synopsis of Reservoir Release Changes from
October 1, 2013 to January 2, 2014**

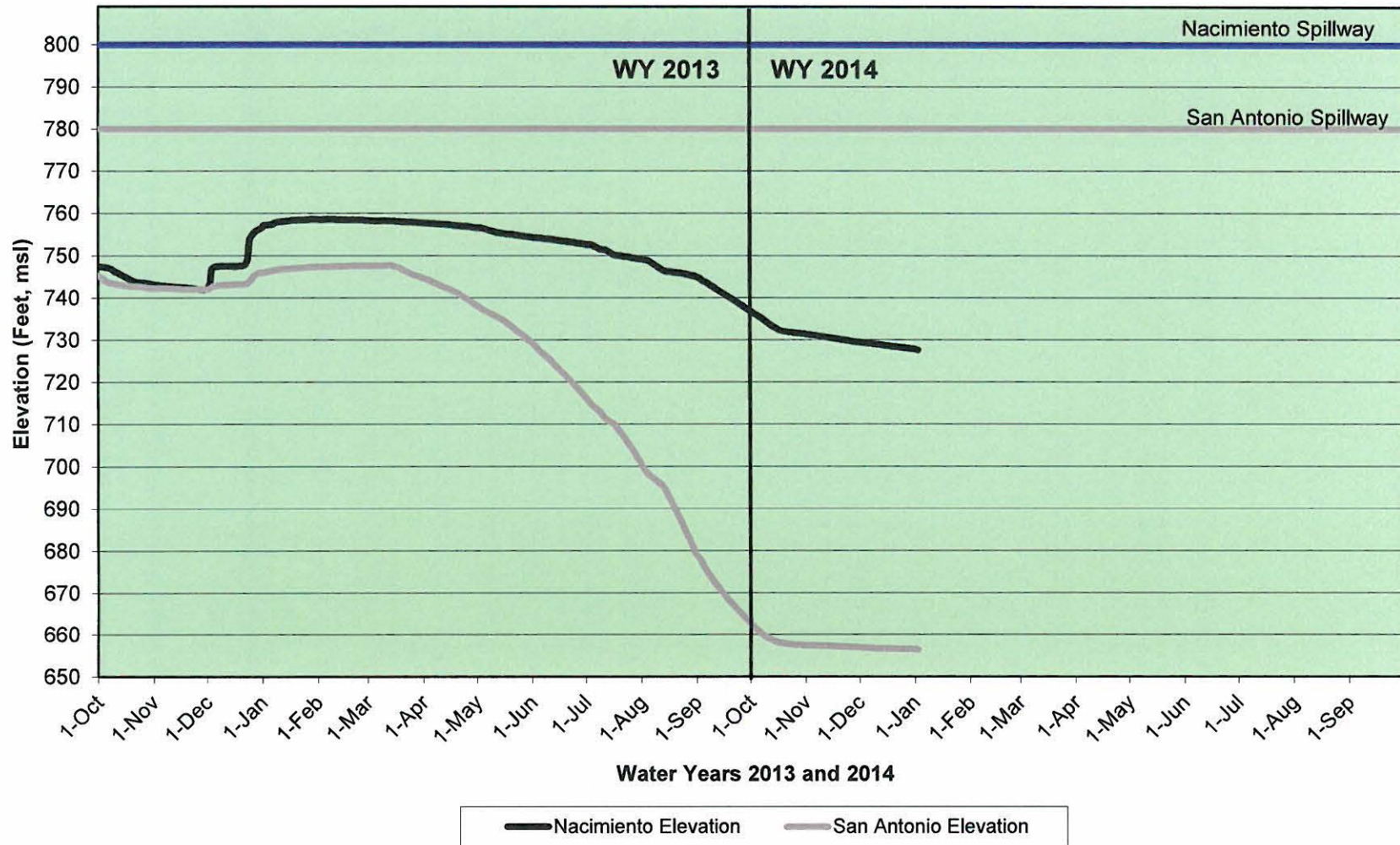
Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
October 2, 2013	175	175	360	355*	530
October 3, 2013	175	150	355	350*	500
October 4, 2013	150	125	350	350	475
October 8, 2013	125	100	350	350	450
October 9, 2013	100	75	350	350	425
October 14, 2013	75	50	350	350	400
October 16, 2013	50	50	350	250	300
October 17, 2013	50	25	250	150	175
October 18, 2013	25	25	150	60	85
October 25, 2013	25	10	60	60	10

*Reduction of release output due to head loss.

Reservoir Storage



Reservoir Elevation



**MONTEREY COUNTY WATER RESOURCES AGENCY
FINAL RELEASE SCHEDULE**

1/2/2014

	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	602	35,838	1,993	349	20,783	1,880	928	133,888	744.8	688	253	15,055	34,830	678.6
10/1/2013	278	17,094	1,265	214	13,159	1,240	528	109,788	736.7	337	64	3,935	20,475	662.5
11/1/2013	70	4,165	602	60	3,570	1,253	156	95,430	731.3	153	10	595	16,975	657.5
12/1/2013	70	4,304	378	60	3,689	844	844	90,558	729.4	92	10	615	16,618	657.0
1/1/2014								86,392	727.7				16,390	656.6
TOTALS:		259,988	18,898		85,866	15,750	4,983			12,505		174,122		

* 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:

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