

**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, September 12, 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 AUGUST 8, 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**

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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John Baillie
Benny Jefferson
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Tom Shepherd
Randy Korsgaard

TIME: 1:30 p.m.
DATE: **Thursday, August 8, 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, David Pozzi, John Baillie,
Benny Jefferson, Tom Shepherd,
Members absent: Mark Nielsen, Mark Gonzales, Paavo Ogren, Randy Korsgaard

A quorum was established.
2. **PUBLIC COMMENT**
None.
3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON JULY 11, 2013**

Committee Action: On motion and second of Committee members John Baillie and Ken Ekelund 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 releases have been adjusted to work around the emergency repair work at the Nacimiento Hydroelectric Powerplant. When maintenance is being performed, double containment is required and this does not allow for releases through the penstock or lower outlet works. Therefore, water from Nacimiento must be pumped directly from the reservoir during those periods. When the work is completed at the end of the day the penstock can be filled and the low level outlet works utilized. During extended periods when crews are not working in the powerplant, releases can be increased from Nacimiento and decreased from

San Antonio. The current release from San Antonio is 270 cfs and 410 cfs from Nacimiento. The current SRDF water demand is 680 cfs which is a typical amount during summer months. The penstock will need to be dry next week and the releases will again be adjusted. San Antonio will likely not reach minimum pool as soon as previously reported.

Staff will be looking at various operational scenarios to plan for the next irrigation season. The winter weather outlook will be presented to the Committee in October.

There was a statement by public member, Ray Francscioni about plans for the Interlake Tunnel and that the current situation should provide a positive reception towards the project. Committee members agreed that the current status of the reservoir levels should provide a good example of how the tunnel project would be beneficial. Robert Johnson, Assistant General Manager and Chief of Water Resources Planning and Management, stated the Agency is working with the County Legislative Committee to discuss the possibility of acquiring funds for projects like the Interlake Tunnel.

NACIMIENTO elevation is 748 feet and 144,200 acre-feet of storage, 38% of capacity, and current release is 410 cfs.

SAN ANTONIO elevation is 697.15 feet and 59,283 acre-feet of storage, 18% of capacity, and current release is 226 cfs.

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. At San Antonio, staff did maintenance on the Howell Bunger valve. With the elevations being very low, the staff gages that are used to visually read the lake elevation levels are scheduled to be repaired or replaced.

The Nacimiento Hydroelectric Powerplant is expected to be back on-line on August 23. Staff has been coordinating with the insurance company, and a report on additional costs is being presented to the Finance Committee and BOD. The Committee expressed concerns and suggested preventative maintenance to avoid bigger issues from occurring in the future.

Brent stated staff is compiling a thorough O&M Maintenance Manual that will include maintenance details for each component and is also working with finance staff to ensure the funds are made available for the work.

**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. Randy Korsgaard is currently moving the San Antonio marina to Harris Creek. The North Shore ramps were closed last week and the park area will remain open for approximately one more week, possibly until Labor Day. There are rumors that San Antonio is closed; Parks staff is doing more advertising and promoting of the South Shore opportunities to combat such rumors. Staff previously working at San Antonio North Shore is being reassigned elsewhere.

B. EASEMENTS AND AGENCY LEASES

Chris Keehn, Right-Of-Way Specialist, provided an update on Agency Grazing Leases to the Committee. The Agency received a request from SLO Cal Poly, in conjunction with Cal Fire for investigating Sudden Oak Death (SOD) Syndrome in the area. They would like to collect samples from a selected site on Agency land. The Agency met onsite with the students and test samples were taken. The test results will be provided in the future to the Agency.

Other issues include the discovery of a vineyard located in Rancho del Lago. The Lessee on Nacimiento Lease #3 has mentioned that trespassing has become a problem on Lease #3. He has agreed to design and construct a gate at the entrance of Lease #3 and post the appropriate trespassing notices. There has been a steady increase in traffic through this area to access the lake and launch boats.

The Lessee from Nacimiento Lease #2 will provide the Agency a quote for removal of a concrete boat ramp in exchange for a lease fee reduction. The ramp was built illegally on the Agency's land.

C. QUAGGA / ZEBRA MUSSEL PLAN

Elizabeth Krafft, Senior Hydrologist, reported a plankton tow is scheduled to be conducted by staff in September 2013. The results from the plankton tow conducted in July were negative. Tom Shepherd, Monterey County Parks Department, reported that Heritage Ranch Home Owners Association have placed a boat under quarantine. The boat, which had been at Lake Havasu within five days previously, appeared to be infected with Quagga Mussels and was being held for testing.

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, September 12, 2013 at 1:30 p.m. at the Agency.

8. ADJOURNMENT BY CHAIR DAVID HART @ 2:42 P.M.

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	September 12, 2013	AGENDA ITEM:	
AGENDA TITLE:	RESERVOIR RELEASE UPDATE		
	Consent ()	Action ()	Information (X)
SUBMITTED BY: PHONE:	Howard Franklin (831) 755-4860	PREPARED BY: PHONE:	Howard Franklin (831) 755-4860
DEADLINE FOR BOARD ACTION:	September 12, 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 3, 2013, San Antonio Reservoir is at approximately 677.6 feet mean sea level (msl), 33,780 acre-feet of storage. Nacimiento Reservoir is at elevation 744.15 feet msl, 132,058 acre-feet of storage. San Antonio Reservoir is currently at 10% of storage capacity and Nacimiento Reservoir is at 35% of capacity.

RESERVOIR RELEASES: Conservation releases to the Salinas River continued during the month of August for aquifer recharge and Salinas River Diversion Facility operations. Emergency repairs at the Nacimiento Hydroelectric Plant have governed the operation of releases from both reservoirs. Minimum fisheries releases of 60 cfs are being made from the Low Level Outlet Works (LLOW) when possible. During actual emergency repair activities, releases are temporarily constrained to bypass pumping directly from the reservoir (approximately 12 cfs). When personnel are not performing emergency repair activities within the Plant, releases are increased to a flow between 30 to 60 cfs. Therefore, Nacimiento releases will fluctuate between approximately 12 cfs to 60 cfs while emergency repair work is being performed on the Hydroelectric Plant. When maintenance activities are interrupted for extended periods, releases from Nacimiento Reservoir will be maximized, to the extent possible.

Releases as of 9:00 AM, September 3, 2013:

- Nacimiento Reservoir: 370 cfs
- San Antonio Reservoir: 280 cfs

Total releases from both reservoirs to the Salinas River are approximately 650 cfs. The following “provisional” flows have been recorded by the USGS:

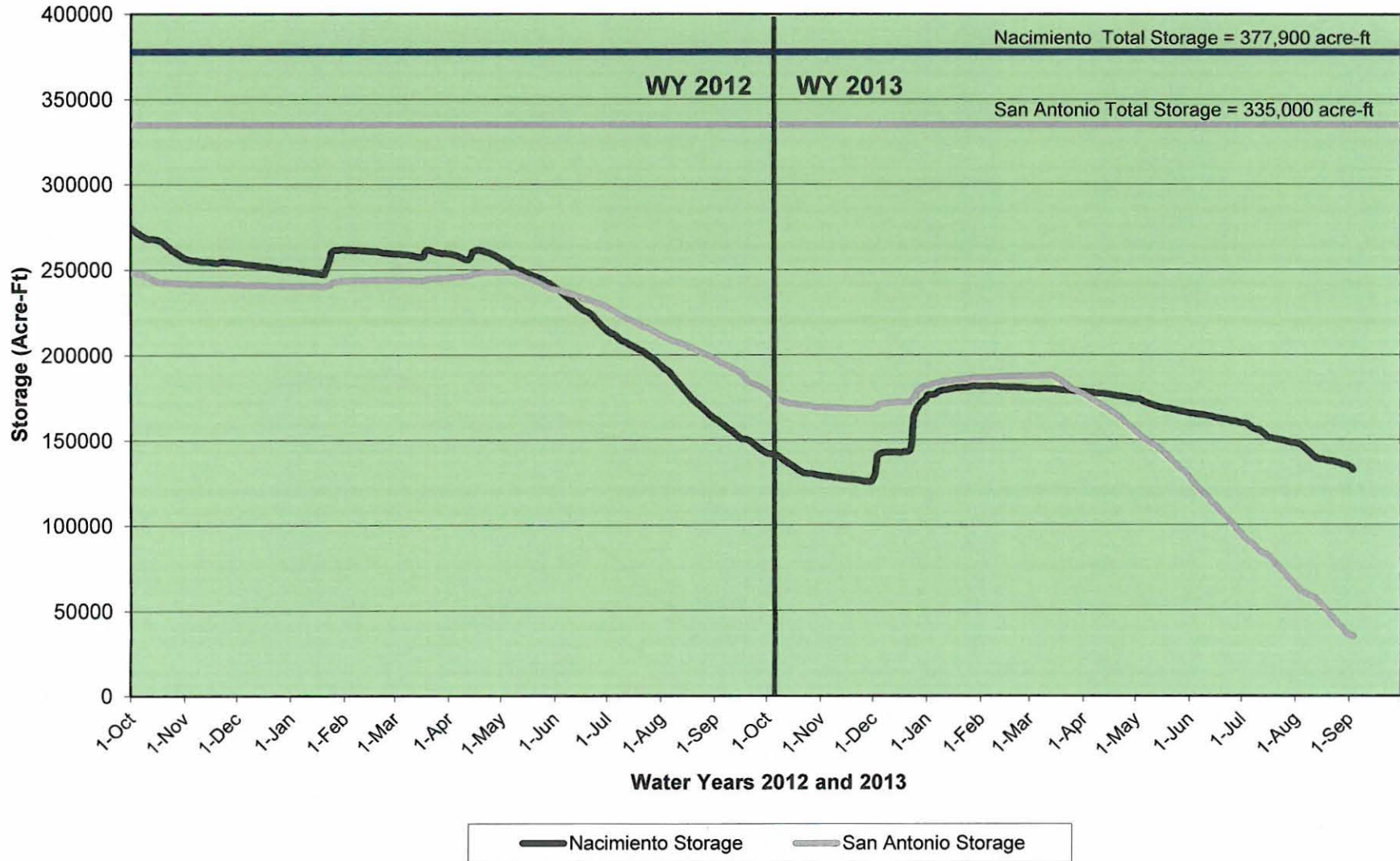
- Salinas River near Spreckels: 28 cfs (steady)
- Salinas River near Chualar: 81 cfs (steady)
- Salinas River near Soledad: 232 cfs (steady)
- Salinas River near Bradley: 670 cfs (peaking)

Synopsis of Reservoir Release Changes from June 3, 2013 to August 30, 2013

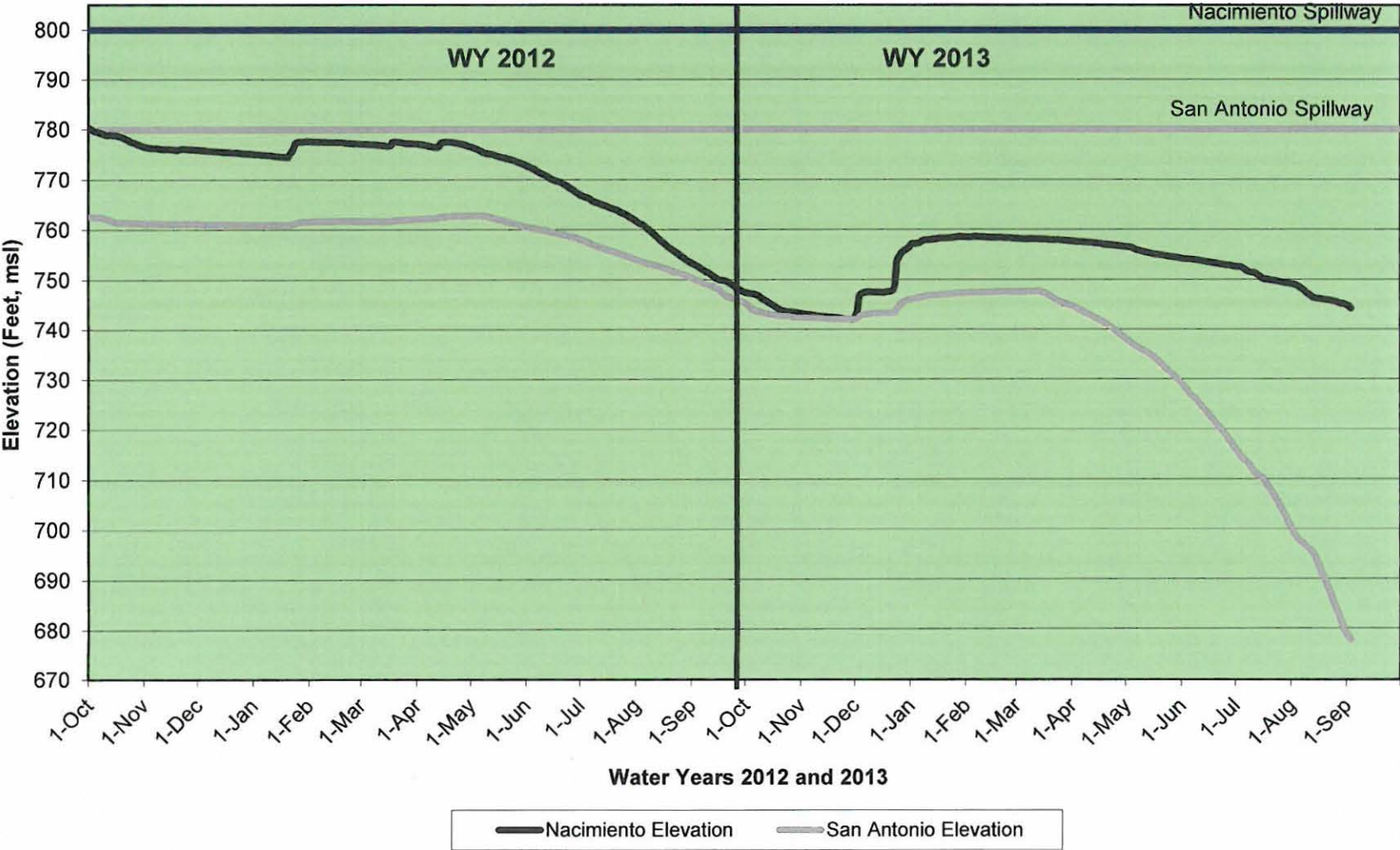
Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
June 3, 2013	480	520	*	31	551
June 4, 2013	520	560	*	31	591
June 6, 2013	560	520	*	48	568
June 7, 2013	520	550	*	62	612
June 24, 2013	550	590	*	40	630
July 4, 2013	590	230	*	336	566
July 6, 2013	230	280	*	417	697
July 7, 2013	280	630	*	265	895
July 8, 2013	630	590	*	40	630
July 9, 2013	590	565	*	42	605
July 11, 2013	565	215	60	410	625
July 15, 2013	215	305	410	320	625
July 16, 2013	305	565	320	60	625
July 25, 2013	565	565	60	125	690
July 26, 2013	565	565	125	100	665
July 29, 2013	565	615	*	53	668
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	*	260	540

* 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.

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY

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

9/4/2013

	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								176,101	757.1				181,623	746.0
	70	4,304	446	60	3,689	776	8			397	10	615		
2/1/2013								181,225	758.5				186,445	747.3
	72	3,999	579	62	3,443	1,037	0			431	10	555		
3/1/2013								180,288	758.3				187,358	747.6
	255	15,658	974	63	3,874	1,033	0			830	192	11,784		
4/1/2013								178,087	757.7				176,675	744.6
	436	25,934	1,200	62	3,679	1,133	0			1,284	374	22,255		
5/1/2013								173,935	756.5				154,493	738.0
	529	32,522	2,450	112	6,867	1,166	99			2,282	417	25,655		
6/1/2013								165,632	754.2				127,265	728.9
	601	35,763	2,930	49	2,916	1,258	561			2,388	552	32,847		
7/1/2013								159,748	752.6				94,000	715.8
	640	39,346	3,220	149	9,134	2,035	903			2,213	491	30,212		
8/1/2013								147,720	749.1				63,800	700.0
	668	41,060	2,860	180	11,062	2,094	956			1,410	488	29,998		
9/1/2013								133,888	744.8				34,725	678.5
	473	28,118	2,020	261	15,522	1,880	1,880			697	212	12,595		
10/1/2013								114,465	738.3				21,433	663.8
	70	4,304	1,330	60	3,689	1,240	1,240			393	10	615		
11/1/2013								108,206	736.1				20,425	662.4
	70	4,165	652	60	3,570	1,253	1,253			206	10	595		
12/1/2013								102,730	734.1				19,624	661.3
	60	3,689	411	60	3,689	844	844			124	0	0		
1/1/2014								97,786	732.2				19,499	661.1
TOTALS:		238,863	19,073		71,136	15,750	7,744			12,655		167,727		

* 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.