

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

**COMMITTEE MEMBERS**

David Hart, Chair  
Ken Ekelund  
Richard Ortiz  
Mark Nielsen  
David Pozzi  
Mark Gonzalez

John Baillie  
Benny Jefferson  
Dean Benedix  
Michael Tozzi (Parks)  
Mark Sandoval (CalParks)

**TIME:** 1:30 p.m.  
**DATE:** Thursday August 6, 2015  
**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 JULY 2, 2015**  
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).
- 4. REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE**  
Staff will present a summary of current conditions at both reservoirs, as well as provide a synopsis of release changes that have occurred since the last meeting (Attachments 2, 2a, 3, 3a, 4).
- 5. RECEIVE REPORT ON NACIMIENTO RESERVOIR RELEASES**  
Staff will report on recent developments regarding Nacimiento Reservoir releases.

6. **RECEIVE REPORT ON THE STATUS OF THE OPERATIONS POLICY MANUAL FOR SAN ANTONIO AND NACIMIENTO RESERVOIRS**  
Staff will report on the status of the current San Antonio and Nacimiento Reservoirs Operations Policy manual and discuss incorporating reservoir operational requirements implemented with the construction of the Salinas Valley Water Project.
7. **RECEIVE REPORT ON CLOUD-SEEDING**  
Staff will report on and discuss possible options for cloud-seeding opportunities.
8. **RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS**  
Staff will present a verbal report discussing the various Operations and Maintenance activities at both reservoirs that have occurred over the last month.
  - A. **NACIMIENTO HYDROELECTRIC PLANT**
  - B. **QUARTERLY REPORT ON DAM OPERATIONS AND MAINTENANCE PROJECT PRIORITY LIST**
9. **RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT**  
Staff will report on current activities regarding the Interlake Tunnel Project.
10. **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 SAN LUIS OBISPO COUNTY ACTIVITIES**
11. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**  
The Committee will discuss and determine details for its next meeting.
12. **ADJOURNMENT**

**MONTEREY COUNTY WATER RESOURCES AGENCY  
BOARD OF DIRECTORS  
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Michael Tozzi (Parks)  
Mark Sandoval (CalParks)

**TIME:** 1:30 PM  
**DATE:** Thursday, July 2, 2015  
**PLACE:** Monterey County Water Resources Agency  
Board Room  
890 Blanco Circle  
Salinas, CA 93901  
(831) 755-4860

**MINUTES**

**1. CALL TO ORDER @ 1:30 p.m. by Chair David Hart.**

Members present: David Hart, Ken Ekelund, Richard Ortiz, Mark Nielsen, David Pozzi, John Baillie, Jill Ogren (*for Dean Benedix*), Michael Tozzi, Mark Sandoval

Members absent: Mark Gonzalez and Benny Jefferson

A quorum was established.

**2. PUBLIC COMMENT**

Rich Boyer asked about the status of the selection process for consultants and requested a definition of the confidentiality of the agreements relating to the Interlake Tunnel Project.

**3. APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON JUNE 5, 2015**

Mark Nielsen provided a correction to Item 7, third paragraph: *“NRWMAC requests a meeting to discuss technical details relating to the design parameters and other options regarding the Interlake Tunnel Project.”*

David Chardavoyne stated Item 7, second paragraph, third sentence should read as follows: *“Confidentiality agreements prevent the disclosure of any confidential information per Homeland Security and FERC.”*

**Committee Action:** On motion and second of Committee members John Baillie and Mark Sandoval, the Committee approved the minutes with said corrections.

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

Jason Demers, Hydrologist, provided a status report. Nacimiento Reservoir elevation is 730.90 feet and 94,400 acre-feet of storage, 25% of capacity, and current release is 60 cfs. San Antonio Reservoir elevation is 654.75 feet and 15,200 acre-feet of storage, 5% of capacity, and current release is 5 cfs.

There have been no changes to releases since the last Committee meeting. Approximately 59 cfs is reaching the Salinas River at the Bradley gage. End of flow in the Salinas River is at river mile 85.4, about 5 miles upstream of the Highway 101 bridge near San Lucas.

5. **RECEIVE REPORT ON BOARD OF DIRECTORS DIRECTION TO STAFF ON NACIMIENTO RESERVOIR RELEASES**

Germán Criollo, Associate Hydrologist, provided a report on the Board of Directors' direction to staff on Nacimiento Reservoir releases. Staff gave an update on the Committee's action from the last meeting and the Board of Director's action at the June 25, 2015 meeting. Staff also provided a summary of forecasted impacts based on four different release options and three reservoir inflow scenarios forecasts.

Jesse Avila from the County Counsel office provided a legal opinion regarding increasing Nacimiento releases above minimum fish flows without maintaining contiguous flow of at least two cfs to the Salinas River Lagoon. County Counsel advised against increasing Nacimiento flows above 60 cfs if the Salinas River Lagoon flow requirements wouldn't be met.

**Committee Action: On motion and second of Committee members John Baillie and Mark Sandoval, and opposed by Mark Nielsen, the Committee recommended keeping the releases from Nacimiento Reservoir at 60 cfs.**

6. **RECEIVE REPORT ON CLOUD SEEDING**

Jill Ogren, San Luis Obispo (SLO) County, reported on cloud seeding. Not much progress was done since last month. A presentation on feasibility of a cloud seeding program will likely be made to the SLO County Board of Supervisors and staff will ask for direction.

7. **RECEIVE REPORT REGARDING OPERATIONS AND MAINTENANCE ACTIVITIES AT THE RESERVOIRS**

Brent Buche, Deputy General Manager, provided an update on operations and maintenance activities at the reservoirs. A quarterly report on planned maintenance activities will be presented to the Committee at next month's meeting.

A. **NACIMIENTO HYDROELECTRIC PLANT**

Unit #2 at the Nacimiento Hydroelectric Plant will be shut down when the elevation reaches 728, which staff estimates will occur around late July or early August of this year.

**8. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT**

David Chardavoyne, General Manager, provided an update. The Agency has received proposals from five engineering and four environmental consultants. There are two screening teams currently reviewing the proposals. Interviews for both engineering and environmental consultants are scheduled for August 4<sup>th</sup> and 5<sup>th</sup> of 2015. Recommendations will be presented to the Board of Directors and Board of Supervisors for approval in September 2015.

The Agency is working on solutions to the White Bass and all options are being evaluated. In a meeting with California Department of Fish & Wildlife (CDFW), the Agency was advised to develop a plan for removal of the White Bass from Nacimiento Reservoir. NOAA Fisheries would also like the White Bass removed. Agency staff has also met with the Toxic Substance Control Board to discuss mercury levels at San Antonio. They expressed concern about contamination of the food chain and would also like the White Bass removed from Nacimiento.

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

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

Mark Sandoval, CalParks, and Mike Tozzi, Parks Department, provided an update on the reservoirs. They are prepared for the Fourth of July holiday weekend and a large turnout is expected. San Antonio closed on July 1, 2015. Parks will keep one staff member there to minimize the maintenance for when it is re-opened. Revenue at Nacimiento has been 15-20% better than last year. Advertising is being done to draw in visitors to Nacimiento and hope to attract the San Antonio regulars.

**B. EASEMENTS AND AGENCY LEASES**

Brent Buche stated there are no updates on easements and Agency leases. The Nacimiento and San Antonio grazing lease payments are due at the end of July 2015 and invoices are being mailed out soon. Payments are due regardless of whether there are cattle on the lease areas. The Committee urged the Agency to negotiate a deal with Tri Counties soon and to finalize the contract for liaison staff who will work on property management issues of the Agency's land.

**C. QUAGGA / ZEBRA MUSSEL PLAN**

Elizabeth Krafft, Senior Hydrologist, provided a report. The CDFW is preparing on activities relating to grants collected from boating fees. CDFW will conduct workshops on grants requirements and staff will be looking for opportunities to submit grant proposals.

**D. UPDATE ON SLO COUNTY ACTIVITIES**

Jill Ogren, SLO County, provided an update on SLO County activities. Normal operations are taking place with Nacimiento Project water deliveries of 1,293 acre feet during the month of June.

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

The next meeting is scheduled for Thursday August 6, 2015 at 1:30 p.m. at the Agency.

**11. ADJOURNMENT BY CHAIR DAVID HART AT 3:14 P.M.**

**SUBMITTED BY: TERESA CAMPA**

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

<b>MEETING DATE:</b>	August 6, 2015	<b>AGENDA ITEM:</b>	
<b>AGENDA TITLE:</b>	Reservoir Release Update		
Consent ( )		Action ( )	
Information ( X )			
<b>SUBMITTED BY:</b>	Germán Criollo	<b>PREPARED BY:</b>	Jason Demers
<b>PHONE:</b>	(831) 755-4860	<b>PHONE:</b>	(831) 755-4860
<b>DEADLINE FOR BOARD ACTION:</b>		August 6, 2015	

**RECOMMENDED BOARD ACTION:**

None – item presented for informational purposes.

**SUMMARY:**

The Board of Directors receives monthly updates on the status of Agency reservoirs.

**DISCUSSION/ANALYSIS:**

**RESERVOIR ELEVATION / STORAGE:** As of July 30, 2015, San Antonio Reservoir is at an elevation of approximately 653.85 feet mean sea level (msl), 14,660 acre-feet of storage. Nacimiento Reservoir is at elevation 728.75 feet msl, 89,088 acre-feet of storage. San Antonio Reservoir is currently at 4% of storage capacity and Nacimiento Reservoir is at 24% of capacity.

**RESERVOIR RELEASES:** As directed by the Agency Board of Directors at the May 26, 2015 meeting releases from Nacimiento were increased to a target flow rate of 60 cfs. Releases from San Antonio Reservoir remain at 5 cfs.

Releases as of July 30, 2015:

- Nacimiento Reservoir: 60 cfs
- San Antonio Reservoir: 5 cfs

Total releases from both reservoirs to the Salinas River are approximately 65 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: 49 cfs (steady)

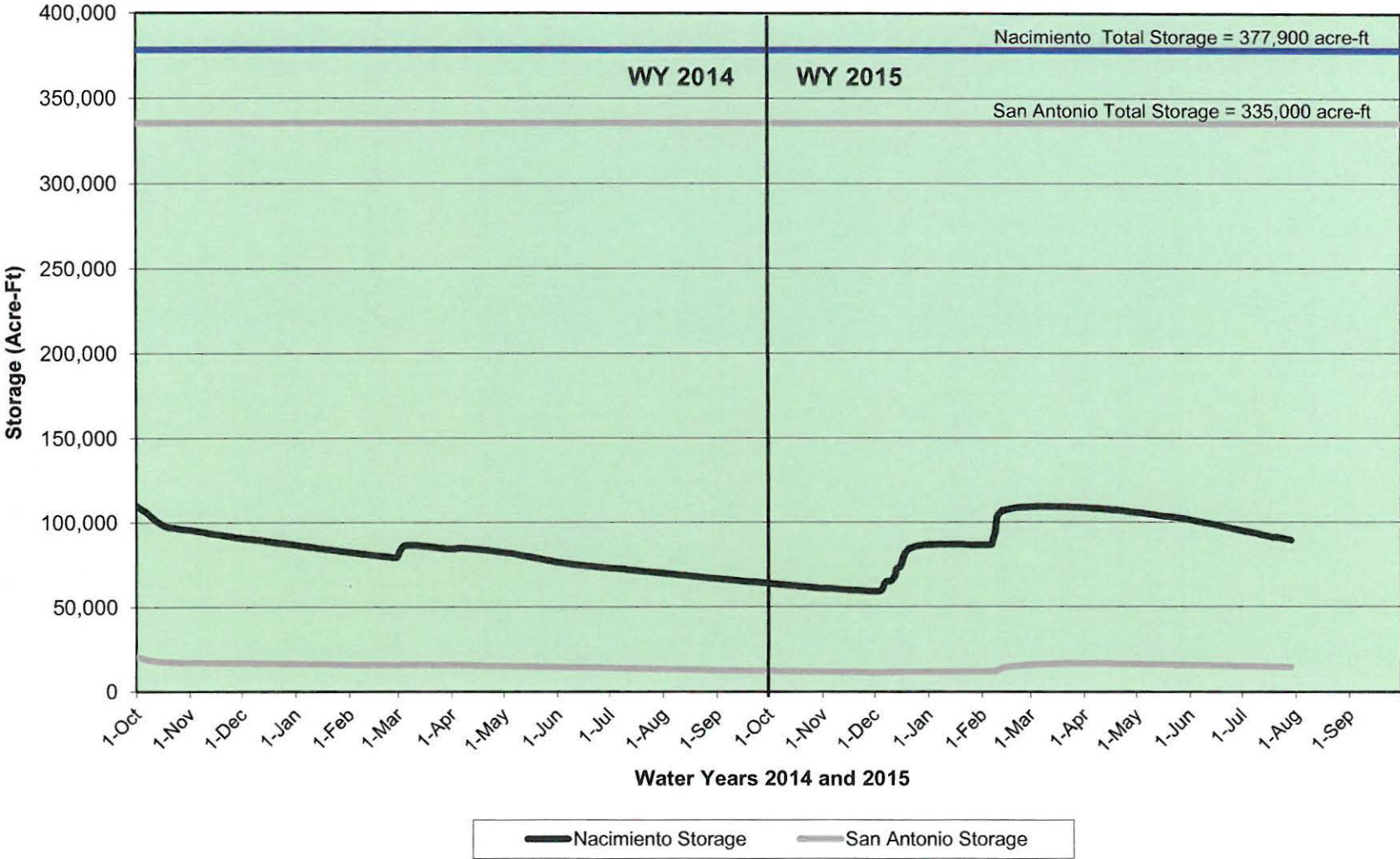
**Synopsis of Reservoir Release Changes from  
August 2, 2014 to July 30, 2015**

<b>Date</b>	<b>San Antonio Reservoir</b>		<b>Nacimiento Reservoir</b>		<b>Total Releases</b>
	<b>Starting Flow</b>	<b>Ending Flow</b>	<b>Starting Flow</b>	<b>Ending Flow</b>	
August 2, 2014	5	5	31	26*	31
August 30, 2014	5	5	26	30*	35
May 27, 2015	5	5	30	60	65

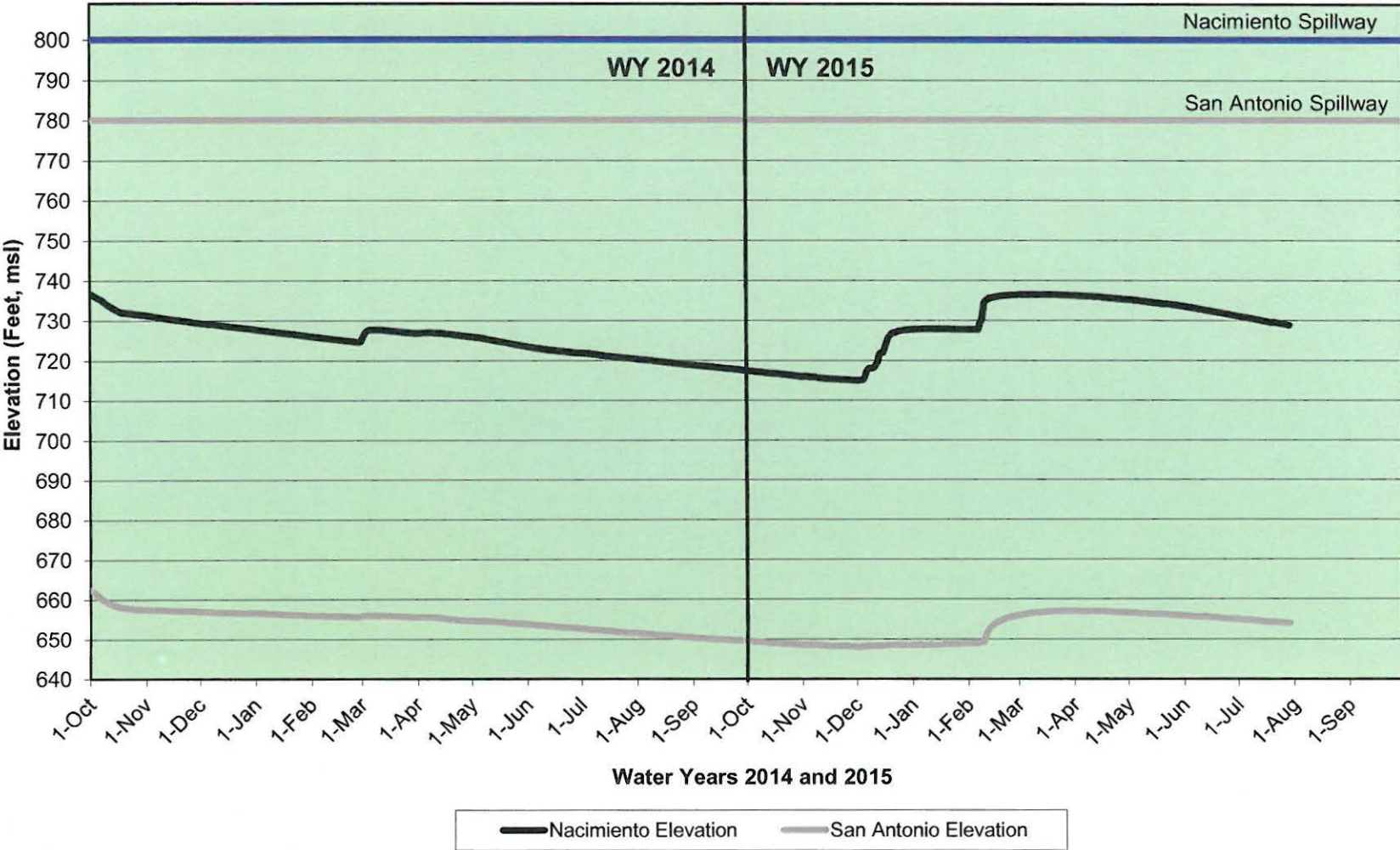
\*Release change in response to USGS gage measurement and flow adjustment.



# Reservoir Storage



# Reservoir Elevation



**MONTEREY COUNTY WATER RESOURCES AGENCY**  
**PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after July 1<sup>st</sup>**

7/30/2015

	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)
1/1/2015	35	2,152	263	30	1,845	175	0	86,638	727.8	67	5	307	11,775	648.6
2/1/2015	35	1,944	282	30	1,666	310	0	86,515	727.7	70	5	278	12,003	649.0
3/1/2015	35	2,152	600	30	1,845	923	0	109,100	736.4	141	5	307	15,903	655.9
4/1/2015	35	2,083	862	30	1,785	1,469	965	108,550	736.2	201	5	298	16,618	657.0
5/1/2015	41	2,549	756	36	2,241	2,009	1,303	105,525	735.1	180	5	307	16,325	656.5
6/1/2015	65	3,868	1,740	60	3,570	2,353	1,264	101,225	733.5	310	5	298	15,838	655.8
7/1/2015	65	3,997	1,736	60	3,689	2,334	TBR	94,650	731.0	423	5	307	15,230	654.8
8/1/2015						2,393	TBR	88,578	728.5				14,613	653.8
9/1/2015						2,175	TBR							
10/1/2015						1,436	TBR							
11/1/2015						951	TBR							
12/1/2015						512	TBR							
1/1/2016														
<b>TOTALS:</b>		<b>18,744</b>	<b>6,239</b>		<b>16,641</b>	<b>17,040</b>	<b>3,533</b>			<b>1,392</b>		<b>2,103</b>		

\* 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.