

**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
Richard Riddle (Parks)
Mark Sandoval (CalParks)

NOTE: Date, Time, and Place of Meeting has changed, see attached sheet for directions

{Car Pool from Agency Office (893 Blanco Circle) will leave at 8:15 AM, Friday June 5. Committee Members – please call Germán Criollo at 831.755.4860 by Noon on Wednesday, June 3 to RSVP a seat in the car pool.}

RESERVOIR OPERATIONS COMMITTEE MEETING

TIME: 10:00 AM
DATE: Friday, June 5, 2015
PLACE: Dragon Lake Grill @ Lake Nacimiento Resort
10625 Nacimiento Lake Drive
Bradley, CA 93426

TOUR OF INTERLAKE TUNNEL PORTALS

Committee Members will tour the proposed sites of the Interlake Tunnel portals at Nacimiento and San Antonio reservoirs following the Reservoir Operations Committee meeting.

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 MAY 7, 2015**
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**
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 BOARD OF DIRECTORS DIRECTION TO STAFF ON NACIMIENTO RESERVOIR RELEASES AND RECOMMEND THE BOARD OF DIRECTORS TO ADOPT A RELEASE SCHEDULE FOR THE REMAINDER OF THE CALENDAR YEAR**
Staff will report on the Agency Board of Directors (BOD) direction to staff at their May 26, 2015 Board meeting to temporarily increase Nacimiento Reservoir releases to 60 cfs. The Committee will consider and discuss Nacimiento release options and recommend the BOD to adopt a permanent release schedule for the remainder of the calendar year.
6. **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**
7. **RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT**
Staff will report on current activities regarding the Interlake Tunnel Project.
 - a. **INTERLAKE TUNNEL OPERATION CRITERIA**
8. **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 ACTIVITIES**
9. **SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS**
The Committee will discuss and determine details for its next meeting.
10. **ADJOURN MEETING TO TOUR OF THE INTERLAKE TUNNEL PORTALS**
The Committee will adjourn meeting for a tour of the Interlake Tunnel portals.
11. **ADJOURNMENT**

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

David Hart, Chair
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John Baillie
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Richard Riddle (Parks)
Mark Sandoval (CalParks)

TIME: 1:30 p.m.
DATE: **Thursday, May 7, 2015**
PLACE: Monterey County Water Resources Agency
Board Room
893 Blanco Circle
Salinas, CA 93901
(831) 755-4860

MINUTES

1. **CALL TO ORDER @ 1:34 p.m. by Chair David Hart.**
Members present: David Hart, Ken Ekelund, Richard Ortiz, David Pozzi, John Baillie, Benny Jefferson, Dean Benedix, Casey Nielsen (Parks), Mark Sandoval, Bill Capps (NRWMAC)

Members absent: Mark Nielsen and Mark Gonzalez

A quorum was established.
2. **PUBLIC COMMENT**
None
3. **APPROVE THE MINUTES OF THE RESERVOIR OPERATIONS COMMITTEE MEETING HELD ON APRIL 2, 2015**
Committee Action: On motion and second of Committee members John Baillie and David Pozzi, with Mark Sandoval and Ken Ekelund abstaining, the Committee approved the minutes.
4. **REVIEW THE STATUS OF BOTH RESERVOIRS; REVIEW RELEASES AND RELEASE SCHEDULE**
Jason Demers, Hydrologist, provided a status report. Approximately 28 cfs has been recorded at the gage in the Salinas River near Bradley. Staff will provide photos showing

the vegetation growth in the Nacimiento River that causes the readings at the Nacimiento River below the dam USGS gage to increase over time without actual changes to releases.

The Committee asked about water temperatures at Nacimiento River. The Agency has instruments located at five locations in the river to monitor the temperatures. As required, the data is reported to NOAA Fisheries.

Nacimiento Reservoir elevation is 734.85 feet and 104,845 acre-feet of storage, 28% of capacity, and current release is 30 cfs.

San Antonio Reservoir elevation is 656.25 feet and 16,163 acre-feet of storage, 5% of capacity, and current release is 5 cfs.

5. RECEIVE REPORT ON CLOUD-SEEDING

Germán Criollo, Associate Water Resources Hydrologist, stated there are no new updates. The Committee provided suggestions to staff that included reviewing the 2009 mitigated Negative Declaration and coordinating with San Luis Obispo County towards developing a plan.

Bill Stevens, National Oceanic and Atmospheric Administration (NOAA), spoke to the Committee via conference call. The Committee asked Mr. Stevens last month to check if funding for cloud-seeding was available from NOAA. There are no funds available. Staff from the National Marine Fisheries Service (NMFS), a division of NOAA, are not aware of cloud-seeding programs being part of NOAA programs.

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

Chris Moss, Senior Water Resources Engineer, provided an update on operations and maintenance activities at the reservoirs. Nacimiento and San Antonio were inspected two weeks ago by the State of California Division of Safety of Dams. They were content with the performance of both dams. Minor concrete spalling was discovered on the spillway at both Nacimiento and San Antonio dams and will need to be repaired. At San Antonio, there is corrosion on a drainage pipe and may be leaking and will be examined and possibly replaced. Staff anticipates starting the digging process within the next two weeks.

Maintenance work activities set to occur at San Antonio includes cleaning out the left abutment drains, which is performed every two years. In addition, both large valves at San Antonio will be exercised and the activity will be coordinated with NMFS staff.

A. NACIMIENTO HYDROELECTRIC PLANT

There are no significant activities occurring at the plant. Unit 2 has been operating continuously. With releases of approximately 30 cfs, staff anticipates Nacimiento reaching an elevation of 728 feet sometime between July and August 2015, when Unit 2 will be shut down again. The monthly revenue generated from Unit 2 is approximately \$7,000.

7. RECEIVE REPORT REGARDING INTERLAKE TUNNEL PROJECT

A. INTERLAKE TUNNEL OPERATION CRITERIA

Germán Criollo provided an update on the Interlake Tunnel Project. A mandatory pre-proposal meeting was held on April 16, 2015 at Heritage Ranch Community Services District at Nacimiento for consultants planning to submit proposals for preliminary engineering and environmental compliance services for the Interlake Tunnel Project. There were approximately 65 attendees that included representatives for 27 engineering firms. The meeting concluded with a tour of San Antonio and Nacimiento tunnel portals.

The proposals are due June 5, 2015 and staff anticipates presenting a recommendation for approval to the Board of Directors in July 2015. A Project Labor Agreement is in the process of being developed. Dean Benedix offered to assist the Agency with reviewing the proposals.

The Committee was provided for their review a hand-out of draft reservoir and interlake tunnel operational criteria.

Dave Hart reported the Ad Hoc Committee that includes members of the Board of Directors and Board of Supervisors met and discussed options for the white bass located in the Nacimiento Reservoir. This will be discussed at a scheduled meeting with the California Department of Fish & Wildlife. The Reservoir Operations Committee suggests reaching out to legislative representatives to discuss policy changes.

Dean Benedix stated that a letter was recently sent to the Agency regarding SLO County representatives participating in meetings related to the Interlake Tunnel Project.

8. RECEIVE REPORTS ON STATUS OF:

A. LAKE RECREATION BY CONCESSIONAIRE & PARKS DEPARTMENT

Mark Sandoval, CalParks, provided an update on the reservoirs. Business has increased a bit. Nacimiento increased 10 feet through last winter and staff has been working on informing the public that Nacimiento has water surface area for recreation. The Wildflower Festival held last weekend at San Antonio was successful although smaller than last year. A concert is scheduled for Memorial Day weekend at North Shore and lodging at South Shore remains open. The rest of the new floating restrooms have been delivered to both reservoirs and are in place at Nacimiento. The ones for San Antonio will be placed once the elevation rises up to the launch ramps.

B. EASEMENTS AND AGENCY LEASES

Brent Buche, Assistant General Manager & Chief of Operations and Maintenance, reported on easements and Agency leases. Last month, the Committee requested a list of easements and leases awaiting review by County Counsel. This has been discussed with County Counsel at the Board of Directors and Personnel & Administration Committee meetings and he is working on it. There has been no action recently on any of the Agency leases.

C. QUAGGA / ZEBRA MUSSEL PLAN

Casey Nielsen, Parks Department, provided a report. Staff from Parks Department, Agency, and SLO County visited Lake Piru on April 24, 2015. The staff at Lake Piru have been very active in educating the public of the infestation situation by providing information to visitors when they enter and leave the lake.

Activities at San Antonio and Nacimiento include providing recertification classes for vessel screening and Level 1 training for community volunteers. The new general manager of Heritage Ranch has been supportive on the mussel prevention program. There were 598 boats screened and 420 banded boats for a total of 1018 boats that were inspected in March 2015.

Dean Benedix expressed concern about the possibility of Park Rangers being laid off at Nacimiento and the effect it will have on the Quagga/Zebra Mussel Inspection Program. He encouraged the Agency to stay in contact with SLO for support of the inspection program. The Committee suggested bringing this to the attention of the Board of Directors and the Board of Supervisors.

D. UPDATE ON SLO COUNTY ACTIVITIES

Dean Benedix, San Luis Obispo County, provided an update on SLO County activities. The Nacimiento Water Project pipeline went back on-line April 7, 2015. Almost 1,000 acre-feet of water have been delivered this month.

9. SET NEXT MEETING DATE AND DISCUSS FUTURE AGENDA ITEMS

The next meeting is scheduled for Thursday June 4, 2015 at the reservoirs. The Committee will meet at 10:00 a.m. at the Dragon Grill Restaurant at Nacimiento and tour the proposed sites for the Nacimiento and San Antonio tunnel portals after the meeting. The Committee suggested omitting some agenda items out for the June meeting to direct focus to the reservoir and tour.

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

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	June 5, 2015	AGENDA ITEM:	
AGENDA TITLE:	Reservoir Release Update		
	Consent ()	Action ()	Information (X)
SUBMITTED BY:	Germán Criollo	PREPARED BY:	Jason Demers
PHONE:	(831) 755-4860	PHONE:	(831) 755-4860
DEADLINE FOR BOARD ACTION:	June 5, 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 May 27, 2015, San Antonio Reservoir is at an elevation of approximately 655.85 feet mean sea level (msl), 15,903 acre-feet of storage. Nacimiento Reservoir is at elevation 733.85 feet msl, 102,153 acre-feet of storage. San Antonio Reservoir is currently at 5% of storage capacity and Nacimiento Reservoir is at 27% 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 pending discussion by the Reservoir Operations Committee. Releases from San Antonio Reservoir remain at 5 cfs.

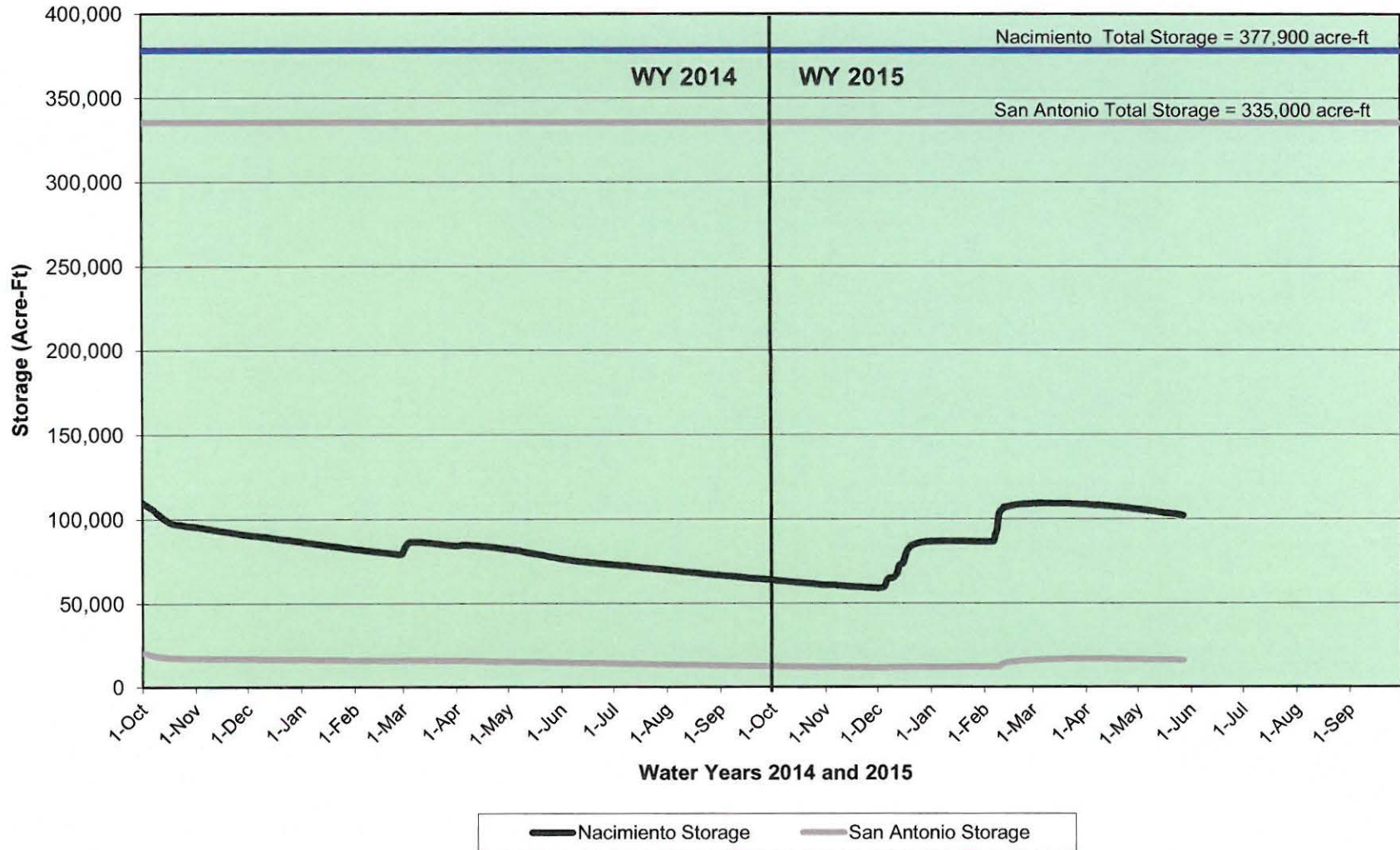
Releases as of May 27, 2015:

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

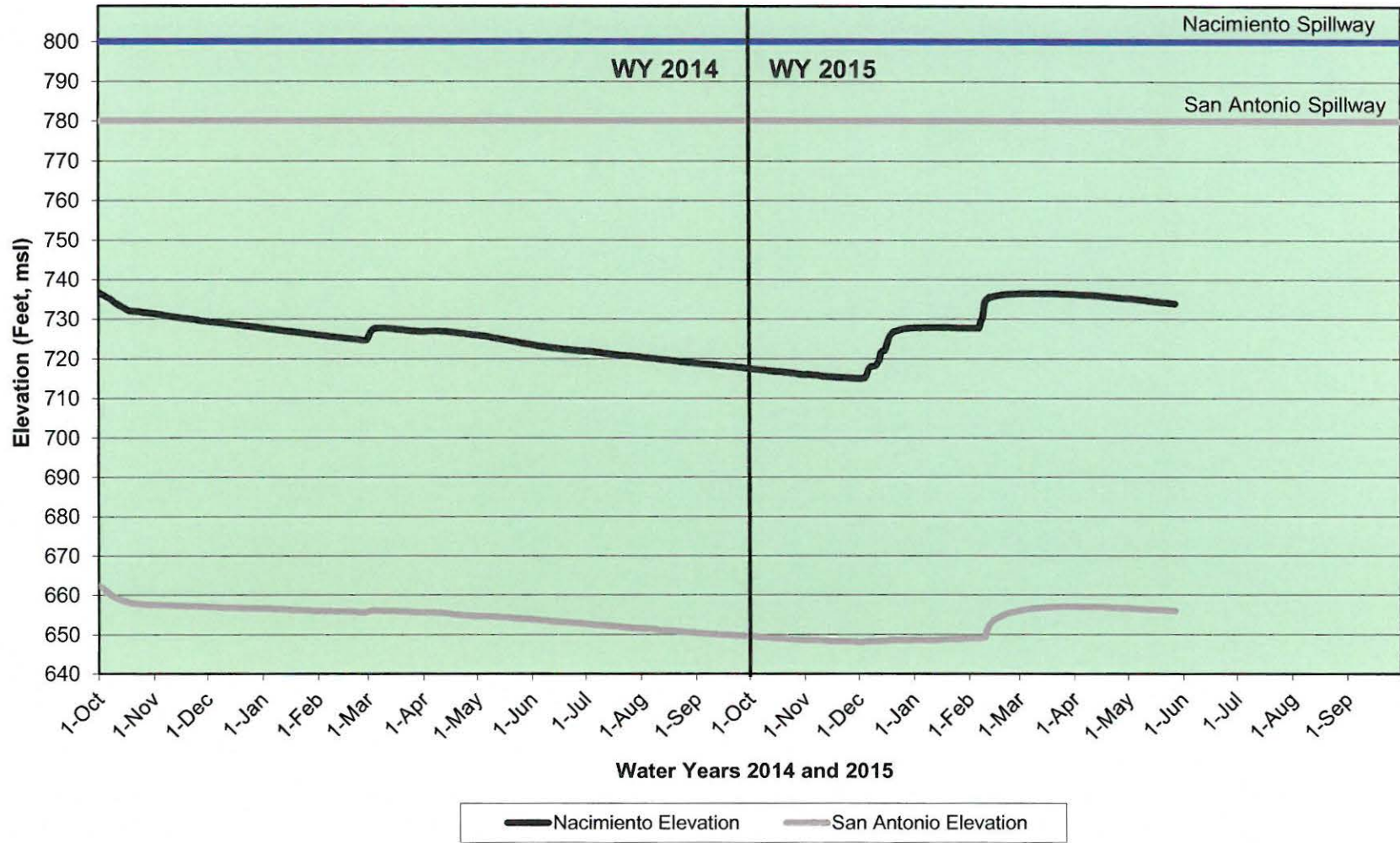
Total releases from both reservoirs to the Salinas River are approximately 65 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Spreckels: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Soledad: 0 cfs
- Salinas River near Bradley: 20 cfs (steady)

Reservoir Storage



Reservoir Elevation



MONTEREY COUNTY WATER RESOURCES AGENCY
PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after May 1st

5/27/2015

RESERVOIR RELEASE SCHEDULE FOR 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								86,638	727.8				11,775	648.6
2/1/2015	35	2,152	255	30	1,845	175	0	86,515	727.7	47	5	307	12,003	649.0
3/1/2015	35	1,944	540	30	1,666	310	0	109,100	736.4	123	5	278	15,903	655.9
4/1/2015	35	2,152	945	30	1,845	923	0	108,550	736.2	192	5	307	16,618	657.0
5/1/2015	30	1,785	688	25	1,488	1,469	965	105,525	735.1	154	5	298	16,325	656.5
6/1/2015	40	2,460	1,845	35	2,152	2,009	TBR	101,027	733.4	472	5	307	15,793	655.7
7/1/2015			2,216	TBD		2,353	TBR			563	5	298	14,932	654.3
8/1/2015			2,482	TBD		2,334	TBR			641	5	307	13,984	652.7
9/1/2015			2,277	TBD		2,393	TBR			571	5	307	13,105	651.1
10/1/2015			1,682	TBD		2,175	TBR			421	5	298	12,386	649.7
11/1/2015			1,145	TBD		1,436	TBR			287	5	307	11,792	648.5
12/1/2015			560	TBD		951	TBR			150	5	298	11,344	647.7
1/1/2016			357	TBD		512	TBR			91	5	307	10,946	646.9
TOTALS:		10,493	14,993		8,995	17,040	965			3,712		3,620		

* 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.


Directions from 893 Blanco Cir to Resort Dr

○ 893 Blanco Cir

Salinas, CA 93901

Continue to US-101 S

4.0 mi / 7 min

-  1. Head **northeast** on **Blanco Cir** toward **E Blanco Rd** 0.1 mi
-  2. Turn **left** at the 1st cross street onto **E Blanco Rd** 0.2 mi
-  3. Turn **right** onto **Abbott St** 3.7 mi







Follow US-101 S to Jolon Rd. Take exit 252 from US-101 S

70.6 mi / 1 h

-  4. Merge onto **US-101 S** 70.4 mi
-  5. Take exit **252** for **Jolon Rd** toward **Fort Hunter Liggett** 0.2 mi

Take Nacimiento Lake Dr to Resort Dr in Lake Nacimiento

12.1 mi / 23 min

-  6. Turn **right** onto **Jolon Rd** 0.1 mi
-  7. Turn **left** onto **Nacimiento Lake Dr** 6.9 mi
-  8. Turn **left** to stay on **Nacimiento Lake Dr** 3.5 mi
-  9. Turn **right** onto **Heritage Rd** 0.7 mi
-  10. **Heritage Rd** turns slightly **right** and becomes **Resort Dr**
 Destination will be on the left 0.9 mi

○ Resort Dr

Paso Robles, CA 93446