

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

COMMITTEE MEMBERS

Vacant, Chair
Richard Ortiz
Ken Ekelund
Glen Dupree
John Baillie
Benny Jefferson
Jon Anthony

Kevin Pearcy
Eric Morgan
Bill Lipe
Mark Sandoval
Jill Ogren
Bill Capps
Matthew Simis

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

{Car Pool from Agency Office (1441 Schilling Place, Salinas) will leave at 8:15 AM, Thursday November 2.
Committee Members – please call Germán Criollo at (831) 755-4860 by Noon on Tuesday, October 31st to
RSVP a seat in the car pool.}

RESERVOIR OPERATIONS COMMITTEE MEETING

TIME: 10:00 AM
DATE: Thursday, November 2, 2017
PLACE: Heritage Ranch Community Service District Board Chambers
4870 Heritage Ranch Road. Paso Robles, CA 93446

TOUR OF NACIMIENTO DAM

Committee Members will tour various parts of the Nacimiento Dam

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 Advisory Committee Meeting held on September 28, 2017**

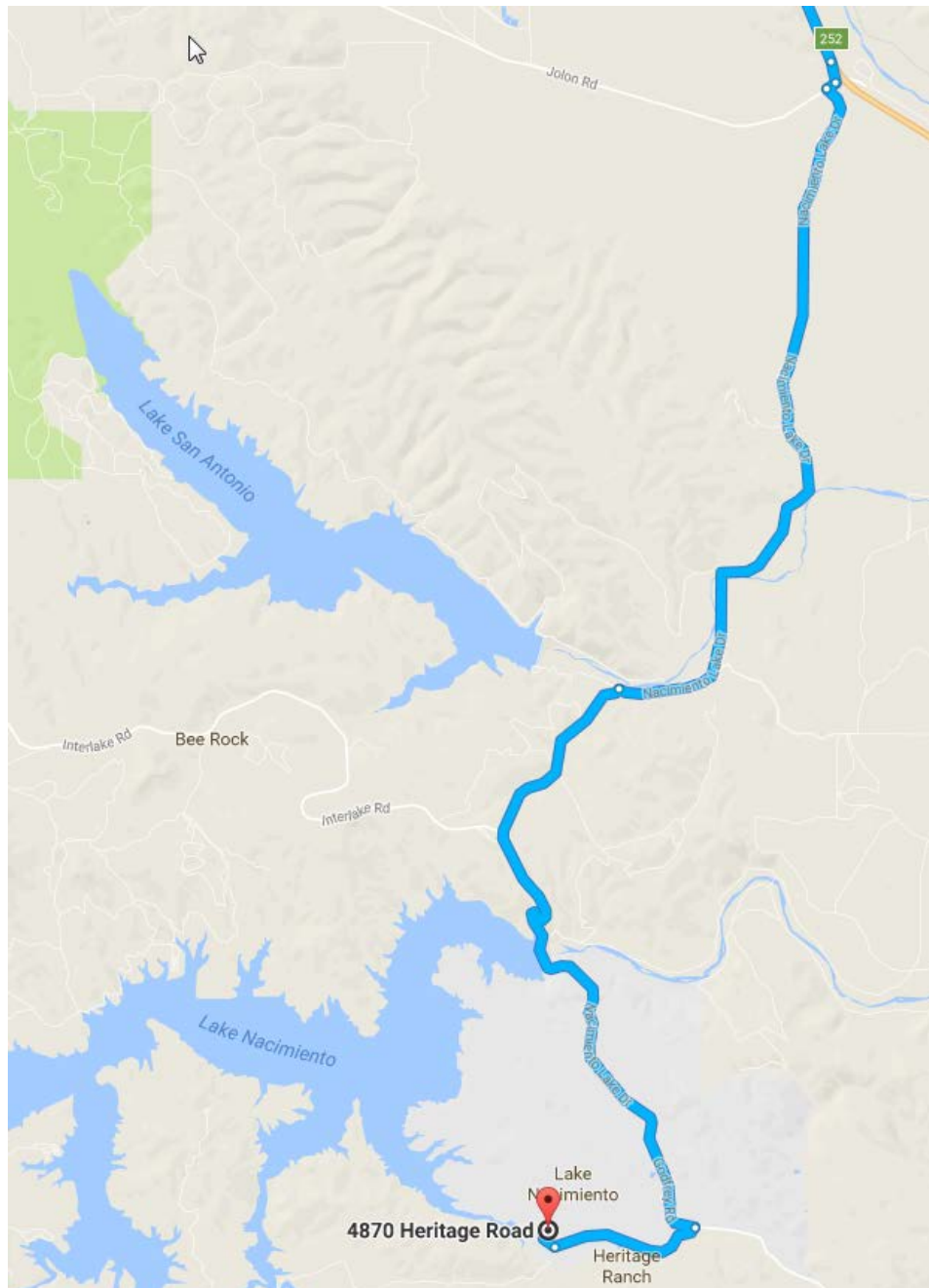
The Committee will consider approval of the minutes of the above-mentioned meeting (Attachment 1).

- 4. Review the status of both reservoirs, current 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. Status of the Operations Policy Manual for San Antonio and Nacimiento Reservoirs**
Staff will report on the work being done to update the Nacimiento Reservoirs Operations Policy manual. The Committee will consider setting a deadline for submitting comments on the draft Nacimiento Operation Policy manual.
- 6. Report regarding Operations and Maintenance activities at the Reservoirs**
Staff will present a verbal report discussing the Operations and Maintenance activities at both reservoirs over the last month.
- 7. Report regarding Interlake Tunnel Project**
Staff will report on current activities regarding the Interlake Tunnel Project.
- 8. Status reports on:**
 - A. Lake recreation by Concessionaire and Parks Department**
 - B. Easements and Agency Leases**
 - C. Quagga / Zebra Mussel Plan**
 - D. San Luis Obispo County Activities**
 - E. National Marine Fisheries Service**
 - F. Legislative items**
- 9. Set next meeting date and discuss future Agenda items**
The Committee will discuss and determine details for its next meeting.
- 10. Adjournment**

Directions from 1441 Schilling Place , Salinas to Heritage Ranch Community Services District Office

- | | |
|---|--------------|
| • Get on US-101 S from Schilling Pl, Hansen St and Airport Blvd | 0.8 miles |
| • Follow US-101 S to Jolon Rd. Take exit 252 from US-101 S | 73.9 miles |
| • Take Nacimiento Lake Dr to Heritage Rd in Lake Nacimiento | 15.2 miles |
| <hr/> | |
| Estimated Driving Time: | 1 hr 31 min. |

4870 Heritage Rd . Paso Robles, CA 93446



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

David Hart, Chair
Richard Ortiz
Ken Ekelund
Glen Dupree
John Baillie
Benny Jefferson
Michael Tozzi

Kevin Pearcey
Eric Morgan
Bill Lipe
Mark Sandoval
Dean Benedix
Mark Nielsen
Matthew Simis

TIME: 1:30 PM
DATE: Thursday, September 28, 2017
PLACE: Monterey County Water Resources Agency
Thyme Conference Room
1441 Schilling Place
Salinas, CA 93901

MINUTES

1. **Call to Order at 1:35 P.M. by Chair Dave Hart and a quorum was established.**
Members present: Hart, Ortiz, Ekelund, Dupree, Baillie, Pearcey, Morgan, Sandoval, Benedix, Capps (for Nielsen), and Simis
Members absent: Jefferson, Tozzi, and Lipe

Bill Stevens, NOAA National Marine Fisheries Service (NMFS), was in attendance, in person, at the meeting.

2. **Public Comments: Don Bullard, NRWMAC, comment on Interlake Tunnel public information meeting held at Heritage Ranch.**
3. **Approve the Minutes of the Reservoir Operations Advisory Committee Meeting held on August 31, 2017.**

ACTION: On motion and second of Committee members Baillie and Benedix, the Committee approved the minutes.

ABSTAIN: Sandoval

VOTE: Motion carried.

4. **Review the status of both reservoirs, current releases, and release schedule**
Jason Demers, Hydrologist, reported on this item.

Public Comment: Nancy Isakson, Salinas Valley Water Coalition; and Christopher Bunn Jr.

5. **Status of the Operations Policy Manual for San Antonio and Nacimiento Reservoirs**
Germán Criollo, Associate Hydrologist, reported on this item.
6. **Update on re-initiation of the National Marine Fisheries Service (NMFS) Biological Opinion for the Salinas Valley Water Project (SVWP)**
Elizabeth Krafft, Senior Hydrologist, reported on this item.
7. **Report regarding Operations and Maintenance activities at the Reservoirs**
Brent Buche, Deputy General Manager, reported on this item.
8. **Report regarding Interlake Tunnel Project**
David Chardavoyne, General Manager, reported on this item.

Public comment: Tim Frahm, Trout Unlimited, Carmel Valley

9. **Status reports on:**
 - A. **Lake recreation by Concessionaire and Parks Department**
Mark Sandoval reported on this item.
 - B. **Easement and Agency Leases**
Brent Buche reported on this item.
 - C. **Quagga / Zebra Mussel Plan**
Elizabeth Krafft, Senior Hydrologist, reported on this item.
 - D. **San Luis Obispo County Activities**
Dean Benedix reported on this item.
 - E. **National Marine Fisheries Service**
Bill Stevens reported on this item.
 - F. **Cloud Seeding**
Dean Benedix reported on this item.
 - G. **Legislative items**
The Committee discussed.
10. **Set next meeting date and discuss future Agenda items**
The next meeting is scheduled for Thursday November 2, 2017 at the reservoirs.
11. **Adjournment by Dave Hart at 4:20 P.M.**

SUBMITTED BY: TERESA CAMPA

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

MEETING DATE:	November 2, 2017	AGENDA ITEM:
Consent () Action () Information (X)		
DEADLINE FOR BOARD ACTION:	November 2, 2017	

..Title

Reservoir Release Update

..Report

RECOMMENDATION:

None – item presented for informational purposes.

SUMMARY/DISCUSSION:

The Reservoir Operations Advisory Committee receives monthly updates on the status of Agency reservoirs.

RESERVOIR ELEVATION / STORAGE: As of October 26, 2017, San Antonio Reservoir is at an elevation of approximately 720.95 feet mean sea level (msl), 106,178 acre-feet of storage. Nacimiento Reservoir is at elevation 754.55 feet msl, 166,896 acre-feet of storage. San Antonio Reservoir is currently at 32% of storage capacity and Nacimiento Reservoir is at 44% of capacity.

The Salinas River mouth opened to the ocean on January 12, 2017 and closed on October 2, 2017. The Salinas River mouth remained open to the ocean for 263 days.

RESERVOIR RELEASES: The Agency began ramping down reservoir releases on October 11th reaching minimum fisheries release rates of 60 cfs from Nacimiento Reservoir and 10 cfs from San Antonio Reservoir on October 13th. Salinas River Diversion Facility operations ceased on October 13th.

Minor fluctuations in release rates are not presented in this report but are documented in the Salinas Valley Water Project Annual Flow Reports.

Releases as of October 26, 2017:

- 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 at Soledad: 17 cfs (decreasing)
- Salinas River near Bradley: 84 cfs (decreasing)

OTHER AGENCY INVOLVEMENT:

None

FINANCING:

None

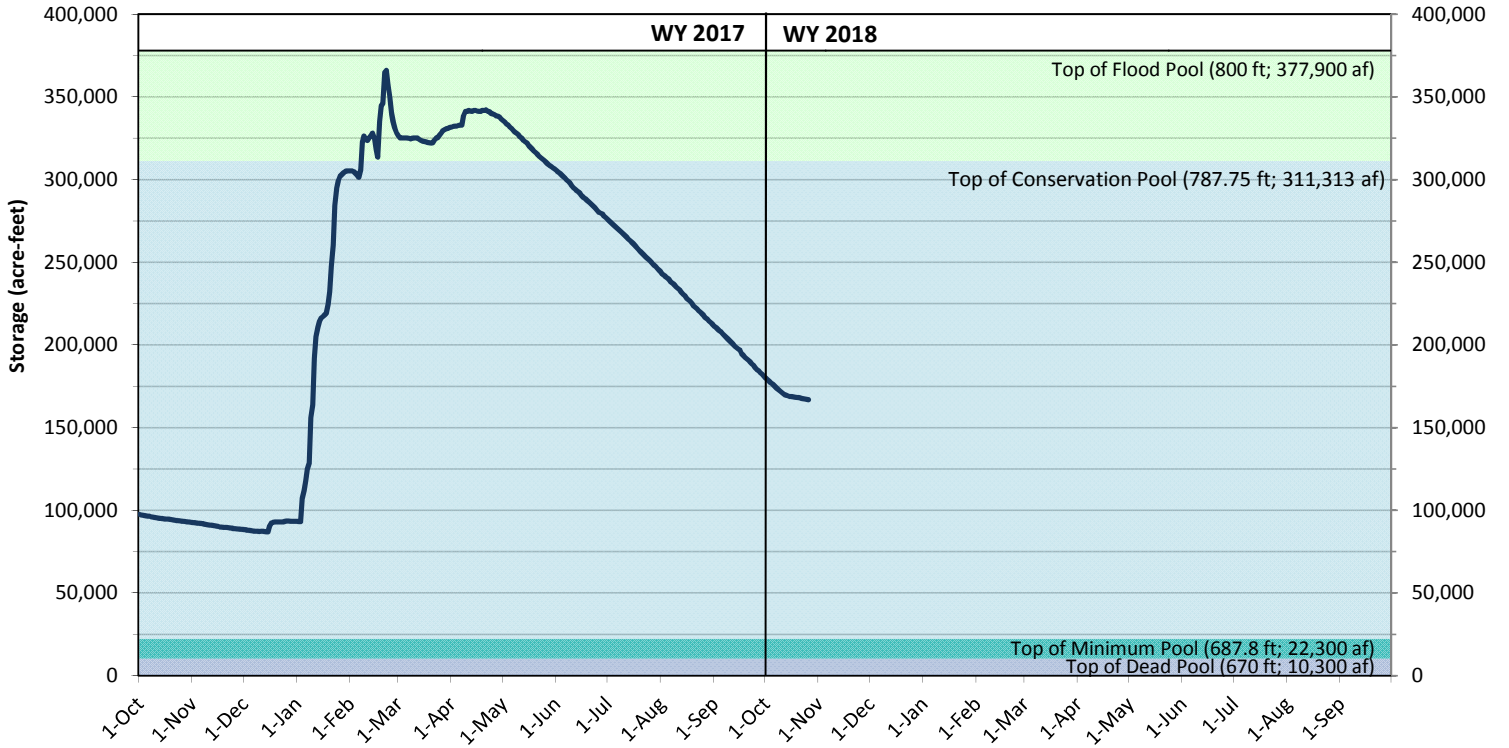
Prepared by: Germán Criollo, Associate Hydrologist, (831) 755-4860
Jason Demers, Hydrologist, (831) 755-4860

Synopsis of Reservoir Release Changes from September 1, 2017 to October 26, 2017

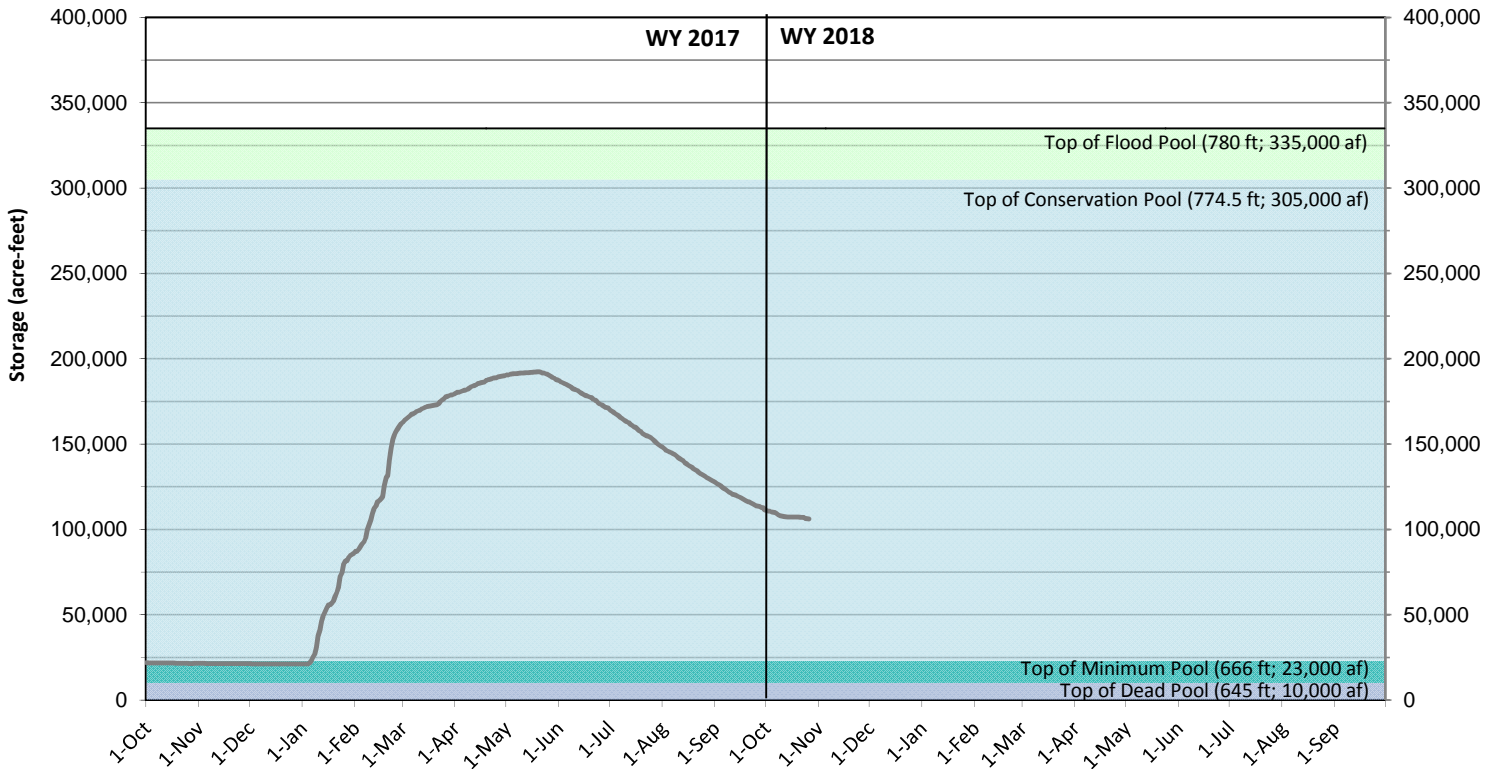
Date	San Antonio Reservoir		Nacimiento Reservoir		Total Releases
	Starting Flow	Ending Flow	Starting Flow	Ending Flow	
September 1, 2017	275	300	500	500	800
September 3, 2017	300	350	500	500	850
September 8, 2017	350	275	500	500	775
September 11, 2017	275	250	500	500	750
September 19, 2017	250	225	500	500	725
September 29, 2017	225	200	500	500	700
October 11, 2017	200	100	500	360	460
October 12, 2017	100	10	360	230	170
October 13, 2017	10	10	230	60	70

Reservoir Storage

Nacimientto Reservoir



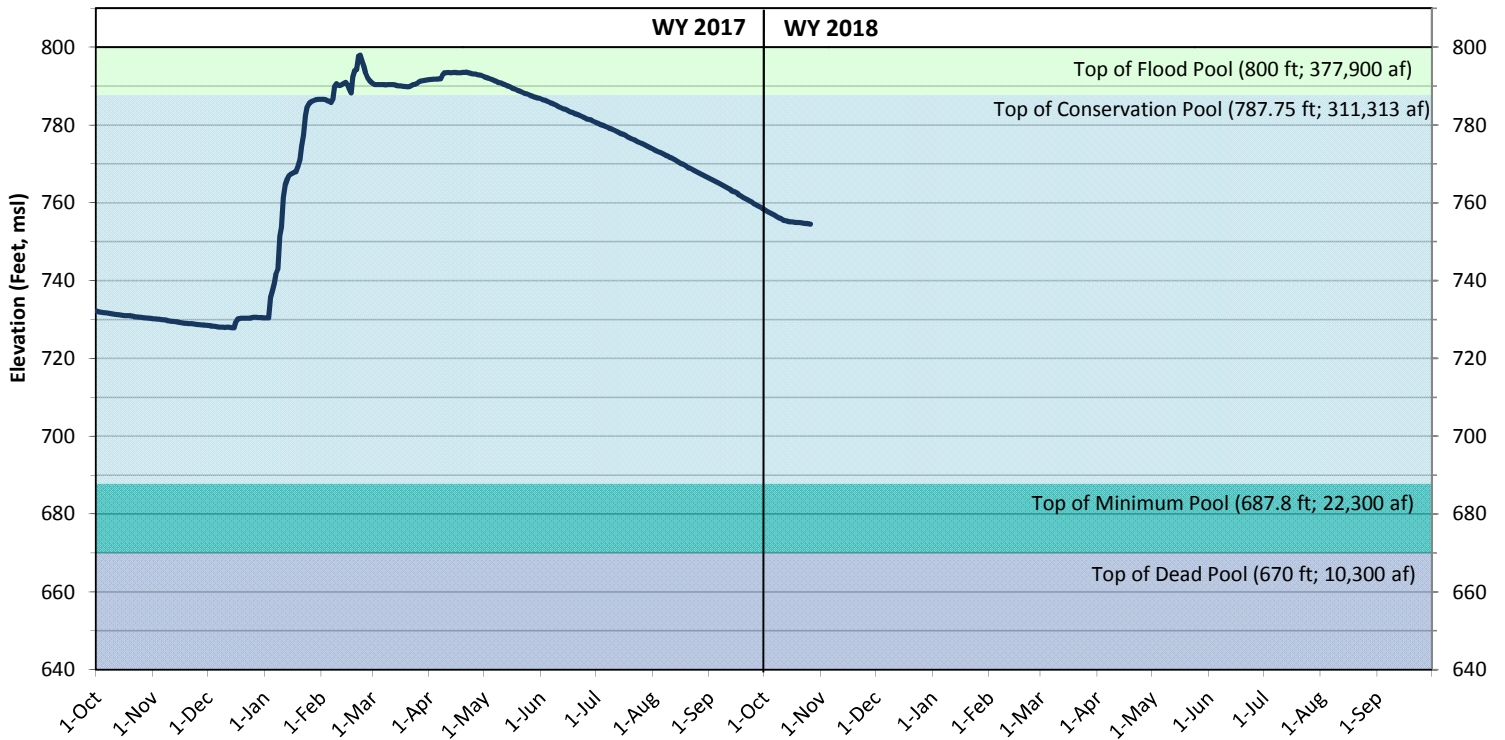
San Antonio Reservoir



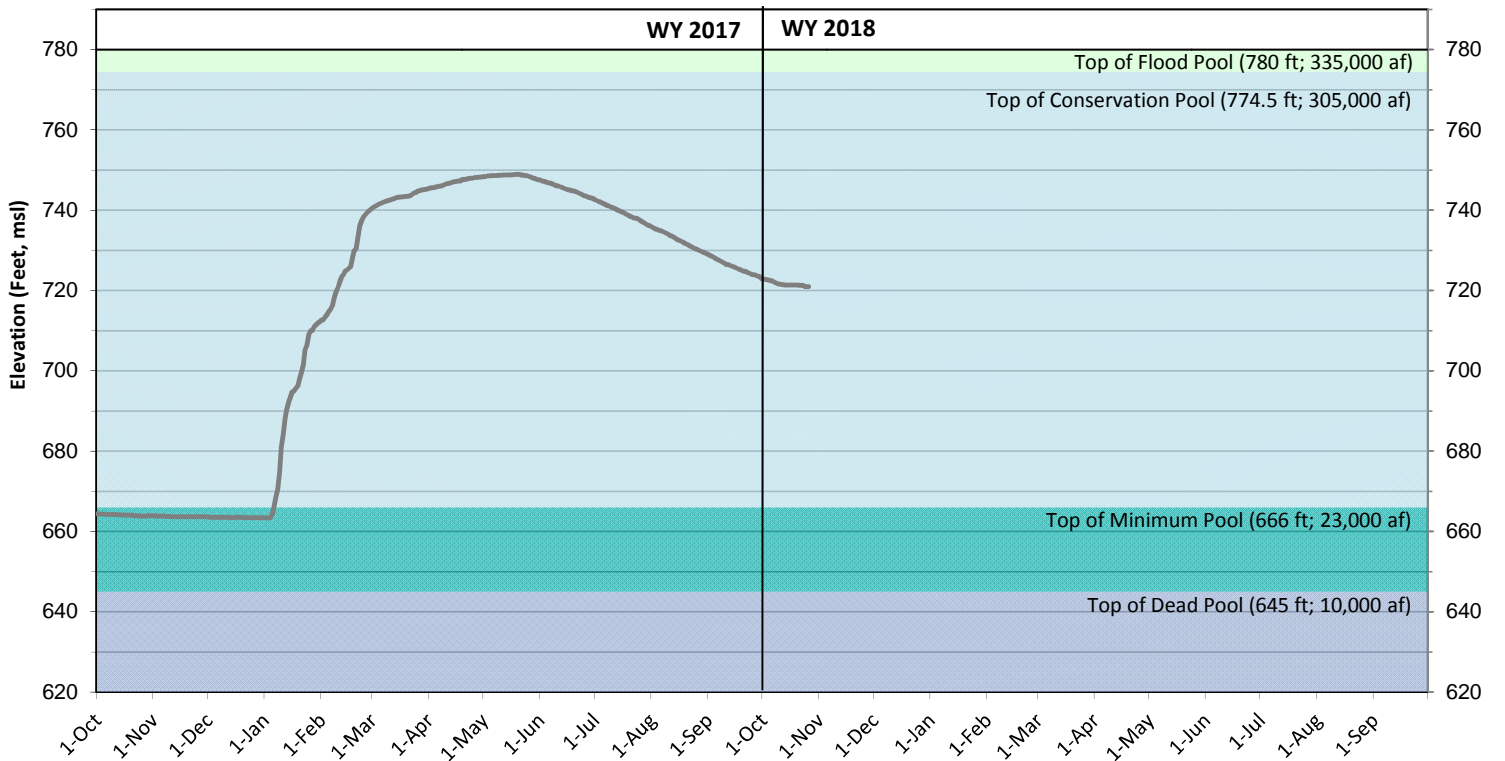
Dead Pool
 Minimum Pool
 Conservation Pool
 Flood Pool
 Spillway

Reservoir Elevation

Naciminto Reservoir



San Antonio Reservoir



Dead pool
 Minimum Pool
 Conservation Pool
 Flood Pool
 Spillway

MONTEREY COUNTY WATER RESOURCES AGENCY

PRELIMINARY - Estimated Elevation/Storage/NWP Diversions; after October 1st

10/26/2017

	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)
1/1/2017								93,275	730.5				21,150	663.4
2/1/2017	159	9,804	494	156	9,620	386	330	305,178	786.6	161	3	184	87,205	712.7
3/1/2017	3,403	189,022	566	3,400	188,855	760	101	326,230	790.6	404	3	167	162,993	740.6
4/1/2017	320	19,706	1,161	317	19,522	784	332	331,828	791.7	747	3	184	179,848	745.5
5/1/2017	310	18,437	1,338	307	18,258	881	434	335,573	792.4	1,122	3	179	190,460	748.4
6/1/2017	617	37,925	1,879	526	32,357	2,012	483	305,683	786.7	1,629	91	5,568	187,175	747.5
7/1/2017	739	43,974	2,780	458	27,263	2,206	534	275,780	780.6	2,121	281	16,711	169,920	742.6
8/1/2017	787	48,382	3,057	453	27,852	2,221	547	244,160	773.8	2,083	334	20,529	148,040	735.9
9/1/2017	817	50,226	3,263	490	30,143	2,221	474	211,470	766.2	1,719	327	20,083	127,550	729.0
10/1/2017	760	45,194	1,904	495	29,475	2,106	520	180,100	758.2	1,317	264	15,719	111,095	722.9
11/1/2017	298	18,314	1,456	218	13,375	1,189		165,614	754.2	940	80	4,939	105,922	720.8
12/1/2017	70	4,165	739	60	3,570	631		160,674	752.8	497	10	595	104,831	720.4
1/1/2018	70	4,304	453	60	3,689	354		156,178	751.5	310	10	615	103,908	720.0
TOTALS:	489,452	19,089	403,979	15,750	3,754			13,051	85,473					

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

** Future Evap. Losses estimated from long term pan evaporation data at Nacimiento and San Antonio Reservoirs and replaced with calculated values once available.

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 June 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.
7. NACIMIENTO "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.
8. NACIMIENTO "NWP Orders" after 9/1/17 are estimated and will be replaced with actual orders once they are received.