

2008 Memorandum of Agreement

Carmel River Reservoirs: Diversion and Release Schedule Assuming "Near Normal" Inflow Conditions

(All Values in Acre-Feet, except as indicated)

	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	CY 2008
Los Padres Reservoir													
Inflow	13,772	9,962	4,511	1,823	960	600	288	128	88	104	200	216	32,652
Outflow													
Evaporation	40	11	29	34	48	60	38	30	21	13	7	4	335
Spillage	12,408	9,376	3,867	1,194	297	0	0	0	0	0	0	0	27,142
Release (Fish Ladder)	615	575	615	595	615	540	553	459	337	264	212	211	5,592
Release (Outlet)	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Notch)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Storage													
Beginning of Month	859	1,569	1,569	1,569	1,569	1,569	1,569	1,266	904	635	461	442	
End of Month	1,569	1,569	1,569	1,569	1,569	1,569	1,266	904	635	461	442	442	
Between Reservoirs													
Inflow	6,219	4,788	2,498	957	240	150	72	32	22	26	50	54	15,108
Outflow													
Evapotranspiration	21	26	37	53	74	63	60	50	53	37	21	16	510
Private Usage	2	2	2	5	7	8	8	8	6	5	2	2	58
San Clemente Reservoir													
Inflow	19,218	14,711	6,941	2,688	1,071	619	557	433	300	248	239	247	47,274
Outflow													
Evaporation	18	4	4	13	17	15	4	3	3	2	1	1	85
Spillage	18,461	14,074	6,261	2,021	378	15	0	0	0	0	0	0	41,211
Diversion (Filter Plant)	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Valve)	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Six Ports)	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Fish Ladder)	615	575	615	595	615	595	492	369	238	184	178	184	5,255
Leakage	61	58	61	59	61	59	61	61	59	61	59	61	726
Total Storage													
Beginning of Month	74	137	137	137	137	137	71	71	71	71	71	71	
End of Month	137	137	137	137	137	71	71	71	71	71	71	71	
Total Release in AF	19,137	14,707	6,937	2,675	1,054	670	553	430	297	246	238	246	47,191
Mean Daily Release in cfs	311.3	255.7	112.8	45.0	17.2	11.3	9.0	7.0	5.0	4.0	4.0	4.0	
Mean Daily Diversion in cfs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Mean Daily Diversion in cfs (Russell Wells)	0.5	1.1	1.1	1.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

Notes:

1. The minimum pool requirements at Los Padres and San Clemente Reservoirs are 91 acre-feet at elevation 980 ft and 71 acre-feet at elevation 515 ft, respectively.
2. Projected inflows for the May through December 2008 period are based on the expectation that unimpaired flows at San Clemente Dam will approximate the inflow that occurred in WY 2007, i.e., 1,200, 750, 360, 160, 110, 130, 250, and 270 AF during April through November 2007, respectively, and is considered a conservative assumption.
3. Projected inflow to San Clemente Reservoir is distributed 80% above Los Padres Dam and 20% between Los Padres and San Clemente Dams.
4. Estimated evaporation is based on average monthly reservoir surface area and gross monthly evaporation rates developed by US Army Corps of Engineers (1981).
5. Releases and diversions are consistent with terms of the 2001 and 2006 Conservation Agreements between the NMFS and CAW and with the conditions in SWRCB Order Nos. 95-10, 98-04, and 2002-0002.

Excerpt: Condition No. 1

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ORDER WRO 2002 - 0002

In the Matter of Reconsideration of WR Order 2001-04-DWR
Implementing Condition 6 of Order WR 95-10 as Modified by
Order WR 98-04 Regarding Diversions by
California-American Water Company

SOURCE: Carmel River
COUNTY: Monterey

ORDER RECONSIDERING WR ORDER 2001-04-DWR

IT IS FURTHER ORDERED that Cal-Am shall comply with Condition 6 of Order WR 95-10, as modified by Order WR 98-04 as follows:

1. Cal-Am shall immediately upon issuance of this order cease withdrawal of water from the San Clemente Dam during low flow periods except during an emergency. "Emergency" means a system failure such as a pump failure, main breaks or fires, that jeopardizes the public health and safety. Hot weather demand alone shall not *per se* be an "emergency," but it is recognized that after taking appropriate conservation measures, if levels in the Clear Well fall below nine feet from the bottom of the tank, an emergency may exist and diversions at San Clemente or the utilization of other facilities may be necessary. Nine feet from the bottom of the tank is a minimum requirement established by California Department of Health Services regulations. In all cases, diversions at San Clemente Dam or the utilization of other facilities shall be undertaken in a manner that is least damaging to the fishery resources, and these emergency operations shall be for the shortest practicable time. Cal-Am shall notify and consult with NMFS, FWS, DFG, and the District prior to implementation of emergency operations. If there is no time for consultation, Cal-Am shall notify NMFS, FWS, DFG, and the District of its emergency operation as early as practicable within eight (8) hours after Cal-Am first becomes aware of the emergency. Cal-Am shall notify, by telephone or telefax, the Chief of the Division of Water Rights within 24 hours of the emergency or by noon of the first business day following the incident. For the purpose of this Order, "low flow periods" are defined as times when stream flow in the Carmel River at the Don Juan Bridge (RM 10.8) gage is less than 20 cfs for five consecutive days. Pursuant to its continuing authority over the public trust, the SWRCB may amend this order to modify the definition of "low flow periods" or to add additional flow requirements to protect steelhead in the Carmel River. The Chief of the Division of Water Rights (Chief) is delegated the authority to modify the definition of "low flow periods" and the authority to add flow requirements based on new information, after finding that any proposed change to the order would better protect steelhead in the Carmel River. The Chief is also delegated the authority to modify the flow requirements of this order, in response to any changes in the requirements imposed under the Endangered Species Act, as necessary to prevent this order from being in violation of the Endangered Species Act or unreasonably interfering with efforts to comply with the Endangered Species Act. Prior to making the finding and prior to making any change to the order, the Chief shall provide notice to the parties to this hearing and give them an opportunity to comment on the proposed change.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The primary data was gathered through direct observation and interviews, while secondary data was obtained from existing reports and databases.

The third section details the statistical analysis performed on the collected data. This involves the use of descriptive statistics to summarize the data and inferential statistics to test hypotheses. The results of these analyses are presented in a clear and concise manner, highlighting the key findings of the study.

Finally, the document concludes with a discussion of the implications of the findings. It suggests that the results have significant implications for the field of study and provides recommendations for further research. The author also acknowledges the limitations of the study and offers suggestions for how these can be addressed in future work.