

New Hogan Reservoir Operations 2022-2023
 (this spreadsheet contains embedded comments viewable only in Excel format)

Year	Reporting Month (NH Permit)	Per ACOE data				SEWD and CCWD Use					Deliveries				Check for Pass-through				Old Linden Right ⁽¹⁾			NH Permit ⁽²⁾			
		End-of-Month Storage ⁽¹⁾ (af)	Change in Storage (af)	New Hogan Inflow ⁽¹⁾ (af)	New Hogan Outflow ⁽¹⁾ (af)	Estimated Reservoir Losses ⁽¹⁾ (af)	Reported Flood Control Release ⁽²⁾ (af)	CCWD Leaky Lind TP Diversion (af)	CCWD Ag Deliveries	Pipeline Municipal Diversion (af)	SEWD Ag Deliveries	CCWD La Contenta Use from Pump ⁽³⁾ (af)	Total Deliveries by Releases and La Contenta Pump (af)	Total Deliveries by Storage Withdrawal ^(4,5) (af)	Deliveries by Direct Diversion ^(6,7) (af)	Total Deliveries (af)	Estimated Stream Evaporation ⁽⁸⁾ (af)	Estimated Stream Percolation ⁽⁸⁾ (af)	Total Estimated Stream Evap and Perc (af)	Computed Pass-Through ⁽⁹⁾ (af)	No. of Days through OCR Headworks	Diversion to Underground Storage (af)	Monthly Amount at 13.75 cfs (af)	Adjusted Direct Diversion (af)	Adjusted Storage Withdrawal (af)
2022	Oct	51,147	-5,127	570	4,830	0	188	51	2,067	2,191	0	4,497	4,497	0	4,497	291	281	333	0				0	4,497	4,497
2022	Nov	49,270	-1,877	1,239	4,810	306	0	116	1,651	0	35	1,802	1,571	231	1,802	0	1,159	1,043	0				231	1,571	1,802
2022	Dec	50,861	31,591	33,759	2,009	160	0	159	1,550	0	0	1,659	0	1,659	0	459	350	0				1,659	0	1,659	0
2023	Jan	173,346	91,485	244,838	152,944	408	150,813	105	0	1,831	0	0	1,936	0	1,936	0	297	192	150,816				1,936	0	1,936
2023	Feb	184,640	12,294	23,553	10,823	438	7,959	93	0	2,170	0	0	2,263	0	2,263	0	694	601	7,959				2,263	0	2,263
2023	Mar	219,265	34,625	163,202	127,739	798	124,964	93	0	2,057	0	0	2,150	0	2,150	0	755	662	124,967				2,150	0	2,150
2023	Apr	239,629	20,364	28,819	7,215	1,220	4,898	123	102	709	107	0	1,041	0	1,041	291	1,229	1,295	4,898				1,229	4,898	987
2023	May	239,195	-434	11,033	9,865	1,602	0	175	255	0	2,409	0	2,839	1,557	1,282	2,839	388	7,025	1				7,025	1	1,993
2023	Jun	229,544	-9,611	5,248	13,073	1,886	0	203	366	0	4,025	3	5,137	0	5,137	582	3,865	7,838	1				5,137	1	4,728
2023	Jul	214,953	-14,631	3,187	15,231	2,587	0	260	357	0	2,814	15	3,446	0	3,446	873	11,544	11,800	0				3,446	0	3,446
2023	Aug	202,004	-12,949	2,191	12,843	2,297	0	243	374	0	4,513	0	5,131	0	5,131	679	7,651	7,713	0				5,131	0	5,131
2023	Sep	191,375	-10,629	1,563	16,585	1,627	0	209	255	0	3,186	52	3,701	0	3,701	485	6,892	6,914	1				3,701	1	3,701
Total - Water Year				519,202	376,085	14,296	288,634	1,916	1,700	12,035	19,844	105	35,690	35,639	10,562	25,600	3,280	45,867	288,643				9,662	24,630	34,291

- Notes:
- "End-of-Month Storage", "New Hogan Inflow", and "New Hogan Outflow" per download from ACOE Water Control Data web site, links to California Pits then Tabulated Data. For Inflow, using data as reported (no adjustment for negative inflows) as ACOE apparently uses data as is for computing other parameters. "Estimated Reservoir Losses" computed from these parameters.
 - "Reported Conservation Release" and "Reported Flood Control Release" per SEWD spreadsheet NH-NM Records 2022, NH Monthly tab. Ideally, the "Total Combined Reported Release" should be about the same as "New Hogan Outflow."
 - Column Q should not be auto populated. Need to compare manually with Col. D for each month, and consider intra-month reservoir high and low. Will change from year to year.
 - See Notes in cells.
 - "La Contenta Use" is water withdrawn directly from New Hogan Reservoir by CCWD for golf course irrigation.
 - "Deliveries by Direct Diversion" = "Total Deliveries by Release" - "Total Deliveries by Storage Withdrawal", except for May 2023 (see note in Cell R14).
 - Monthly "Estimated Stream Evaporation" is a constant that has been derived by SEWD and is unchanged each year. Monthly "Estimated Stream Percolation" is computed by SEWD.
 - "Computed Pass Through" = "New Hogan Outflow" - "Total Deliveries by Release" - "Total Estimated Stream Evap and Perc" + "CCWD La Contenta Use from Pump". A negative value suggests that stream evap and/or perc may be overestimated, and/or inaccuracies, imprecision, or misinterpretation in other data. A positive value would be attributable to flood control releases or water released from storage in excess of demand, perc, and evap (i.e. released water passed through the entire system).
 - These columns added in 2023 to disaggregate direct diversions under Old Linden Right (A006522) from New Hogan permit operations. Assume direct diversion under OLR first (the more senior right) if parameters can support it. Assume Diversion to Underground Storage is portion of SEWD's reckoning of Estimated Stream Percolation.

New Hogan Reservoir

Amounts in Storage, 2023 Reporting Period (October 2022 through September 2023)

Description	Date	Amount in Storage (af)	Reservoir Elev. ⁽¹⁾	Drawdown ⁽¹⁾ (ft)
Begin Diversion Season	11/1/2022	51,059	619.25	93.75
January 1, 2022	1/1/2023	119,991	654.01	58.99
Maximum WY Reservoir Level	5/14/2023	241,733	693.99	19.01
End Diversion Season (May 1)	5/1/2023	239,737	693.44	19.56
End Diversion Season (May 15)	5/15/2022	241,660	693.97	19.03
Minimum WY Storage (10/1/2022 to 9/30/2023)	11/30/2022	49,270	618.05	94.95

Notes:

1. Reservoir Elev. Per ACOE New Hogan Water Control Manual, June 1983, Area And Capacity Table. Gross Pool elevation = 713.0.