

WEDNESDAY WATER DATA REPORT

AS OF DATE May 8, 2024

FRIANT WATER AUTHORITY
SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA

		THIS YEAR 05/08/24	LAST WEEK	LAST YEAR 05/10/23
RESERVOIR STORAGE (A.F.)	CAPACITY		STORAGE	
Southern California Edison:				
Vermillion (Edison)	125,000	43,923	39,141	7,945
Florence	64,400	17,773	15,525	10,899
Huntington	89,000	66,806	54,317	33,065
Shaver	<u>135,300</u>	<u>71,461</u>	<u>66,336</u>	<u>101,049</u>
Sub-total (Big Creek)	413,700	199,963	175,319	152,958
Mammoth Pool	122,000	121,721	121,517	122,170
Redinger	<u>26,100</u>	<u>23,636</u>	<u>24,511</u>	<u>24,047</u>
Sub-total Southern California Edison	<u>561,800</u>	<u>345,320</u>	<u>321,347</u>	<u>299,175</u>
Pacific Gas & Electric:				
Crane Valley (Bass Lake)	45,400	39,000	36,844	38,075
Kerckhoff	<u>4,200</u>	<u>2,280</u>	<u>2,336</u>	<u>2,139</u>
Sub-total P G & E	<u>49,600</u>	<u>41,280</u>	<u>39,180</u>	<u>40,214</u>
TOTAL UPSTREAM STORAGE	611,400	386,600	360,527	339,389
MILLERTON LAKE	<u>520,500</u>	<u>515,050</u>	<u>512,276</u>	<u>144,359</u>
TOTAL STORAGE	1,131,900	901,650	872,803	483,748
INFLOW & RELEASE DATA (C.F.S.)				
Millerton Releases:				
Madera Canal		967	936	1,112
Friant-Kern Canal		4,029	2,694	2,067
San Joaquin River		783	877	4,008
Spillway		<u>0</u>	<u>0</u>	<u>0</u>
Total Millerton Releases		5,779	4,507	7,187
Actual Millerton Inflow		3,944	6,362	8,076
Computed Natural River (@Friant)		5,626	8,166	8,563
SAN JOAQUIN RIVER (A.F.)				
This Month:				
Actual to-date		106,934	343,655	176,775
Forecasted DWR/NWS 50% forecasts.		482,100	482,100	954,100
April/July Period:				
Actual to-date		450,589	343,655	706,165
Forecasted		1,192,000	1,192,000	3,064,000
Last Year Actual				2,999,044
Water Year:				
Actual to-date		906,263	799,329	1,980,527
Forecasted DWR/NWS 50% forecasts.		1,714,000	1,714,000	4,569,000
Last Year Actual				4,569,000
ESTIMATED WATER YET TO BE DELIVERED (A.F.)				
Contract Year Ending February 28		938,130*	1,013,513*	1,677,060

*Figure is based on 100% Class 1, 10% Class 2, Carryover, URF, minus District usage.

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PRECIPITATION DATA

REPORTING STATIONS:	THIS YEAR		LAST YEAR	
	05/08/24		05/10/23	
	AVERAGE (INCHES)	ACCUMULATIVE TO DATE (INCHES/PERCENT AVG)		
HUNTINGTON				
This Month	1.92	1.06 /	55	0.19 / 10
Seasonal Average*	41.40	35.85 /	87	68.51 / 165
Annual Average	41.99	35.85 /	85	68.51 / 163
CRANE VALLEY				
This Month	2.28	0.87 /	38	0.86 / 38
Seasonal Average*	39.47	30.87 /	78	57.20 / 145
Annual Average	39.87	30.87 /	77	57.20 / 143
FRIANT				
This Month	0.44	0.44 /	100	0.91 / 207
Seasonal Average*	14.10	11.71 /	83	22.18 / 157
Annual Average	14.27	11.71 /	82	22.18 / 155

* Seasonal Average (July - June) is through the current month

MISC RIVER/RESERVOIR	CAPACITY (A.F.)	STORAGE (A.F.)	RELEASE (C.F.S.)	INFLOW (C.F.S.)
Chowchilla/Buchanan	150,000	133,264	1	87
Fresno/Hidden	90,000	55,065	0	134
Kings/Pine Flat	1,000,000	940,601	6,432	4,325
Kaweah/Terminus	185,000	152,944	688	1,495
Tule/Schafer	82,314	62,966	366	534
Kern/Isabella	570,000	341,113	1,164	2,411

FRIANT WATER AUTHORITY
SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA

CVP/SWP SAN LUIS OPERATIONS

		THIS YEAR 05/08/24	LAST WEEK FLOWRATE (C.F.S.)	LAST YEAR 05/10/23 Average
PUMPING INSTANTANEOUS				
	MAX. FLOWRATE (C.F.S.)			
Jones P.P.	4,600	915	1,840	3,536
Banks P.P.	10,000	630	414	1,265
MONTH TO DATE				
Jones P.P.		16,353	0	60,669
Banks P.P.		7,208	0	63,088
SEASON TO DATE (Since October 1)				
Jones P.P.		1,053,311	1,036,958	1,256,064
Banks P.P.		914,565	907,357	1,476,809
SAN LUIS RESERVOIR CAPACITY				
	(A.F.)		(A.F.)	
Federal	980,000	846,785	890,627	951,329
State	1,060,000	533,165	539,167	1,064,955
Total	2,040,000	1,379,950	1,429,794	2,016,284
SAN LUIS RESERVOIR DAILY CHANGE				
Federal		(6,042)	(4,441)	(1,031)
State		(421)	(633)	270

SACRAMENTO-SAN JOAQUIN DELTA FLOW INDICES

	FLOWRATE (C.F.S.)
Delta Outflow Index	31,646
Sacramento River @ Freeport	26,335
San Joaquin River @ Vernalis	4,255
Total Delta Inflow	32,289

FRIANT WATER AUTHORITY
SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA

SIERRA SNOW SENSOR DATA

05/08/24

REPORTING STATION	ELEVATION (FT.)	WATER CONTENT (IN.)	APRIL 1st AVERAGE (IN.) **	PERCENT OF APRIL 1st AVERAGE
San Joaquin River				
Kaiser Pass	9,200	13.8	29.1	47%
Green Mountain	7,900	0.3	26.5	1%
Tamarack	7,600	16.2	25.8	63%
Chilkoot Meadow	7,150	N.A.	31.2	N.A.
Huntington Lake	7,000	9.5	21.0	45%
Graveyard Meadow	6,900	10.0	17.5	57%
Poison Ridge	6,900	2.9	22.8	13%
Mammoth Pass	9,300	39.9	36.6	109%
San Joaquin River Average		13.2	26.3	50%
San Joaquin River Areal Weighted Average *		13.9	26.7	52%
Kings River				
Charlotte Lake	10,400	25.1	26.8	94%
State Lakes	10,400	14.3	34.0	42%
Mitchell Meadow	9,900	N.A.	32.5	N.A.
Upper Burnt Corral	9,700	N.A.	35.2	N.A.
W. Woodchuck Mdw.	9,100	16.1	30.7	52%
Big Meadows	7,600	N.A.	23.5	N.A.
Kings River Average		13.9	30.5	63%
Kaweah River				
Farewell Gap	9,500	N.A.	37.3	N.A.
Giant Forest	6,650	0.0	7.3	0%
Kaweah River Average		0.0	22.3	0%
Tule River				
Quaking Aspen	7,200	N.A.	17.2	0%
Kern River				
Upper Tyndall Crk	11,450	15.8	22.2	71%
Crabtree	10,700	4.1	16.1	25%
Chagoopa Plateau	10,300	9.7	17.6	55%
Pascoes	9,150	17.2	27.7	62%
Tunnel	8,950	0.0	10.9	0%
Wet Meadow	8,950	1.1	20.8	5%
Beach Meadow	7,650	0.0	5.0	0%
Kern River Average		8.0	17.2	31%

* Reporting stations weighted using Thiessen Polygon Method to account for representative watershed area.

** Reflects DWR's April 1st Average going from a 50 to a 30 year that includes the last five years.

**FRIANT WATER AUTHORITY
SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA**

CIMIS EVAPOTRANSPIRATION RATES

REPORTING STATION #	REPORTING STATION	YESTERDAY 5/7/2024 (Inches)	TOTAL PAST 7 DAYS (Inches)	NORMAL PAST 7 DAYS (Inches)	VARIANCE FROM NORMAL (%)	NORMAL NEXT 7 DAYS* (Inches)
5	Shafter	0.23	1.45	1.59	-9	1.63
15	Stratford	0.21	1.34	1.73	-23	1.78
39	Parlier	0.23	1.37	1.5	-9	1.55
80	Fresno State	0.24	1.43	1.57	-9	1.61
125	Arvin-Edison	0.24	1.57	1.62	-3	1.69
142	Orange Cove*	N.A.	N.A.	N.A.	N.A.	N.A.
148	Merced**	N.A.	N.A.	N.A.	N.A.	N.A.
169	Porterville***	N.A.	N.A.	N.A.	N.A.	N.A.
182	Delano	0.22	1.49	1.50	-1	1.55

*Station 142 Orange Cove temporarily not reporting ETo until irrigation resumed and pasture restored.

**Station 148 was deactivated due to a land use change beginning April 9th, 2024.

***Station 169 Porterville has been retired due to a land-use change.

FRIANT WATER AUTHORITY
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CROP COEFFICIENTS

8-May-24

Crop (Description)	Today	Avg. Prev. 7 Days	Avg. Next 7 Days
Alfalfa (average)	0.95	0.95	0.95
Almonds (Feb. 20 leafout, Nov. 15 leafdrop)	0.70	0.69	0.72
Almonds (Mar. 1 leafout, Nov. 15 leafdrop)	0.68	0.67	0.70
Beans (Apr. 1 plant date, Aug. 1 harvest)	0.72	0.58	0.86
Beans (May 1 plant date, Aug. 15 harvest)	0.12	0.12	0.12
Beans (Jun. 1 plant date, Sep. 15 harvest)	0.00	0.00	0.00
Citrus (year round)	0.65	0.65	0.65
Corn (Apr. 15 plant date, Sep. 15 harvest)	0.19	0.15	0.26
Cotton (Apr. 1 plant date, Sep. 20 defoliate)	0.10	0.10	0.11
Cotton (Apr. 15 plant date, Oct. 1 defoliate)	0.10	0.10	0.10
Cotton (May 1 plant date, Oct. 1 defoliate)	0.10	0.10	0.10
Wheat, Oats, Barley (Dec. 1 plant date, Jun. 1 harvest)	0.89	0.99	0.78
Grapes, Raisin (Mar. 15 leafout, Oct. 15 leafdrop)	0.45	0.43	0.47
Grapes, Table (Mar. 15 leafout, Oct. 15 leafdrop)	0.57	0.54	0.60
Kiwi (Mar. 15 leafout, Nov. 1 leafdrop)	0.80	0.76	0.81
Melons (Apr. 1 plant date, Jul. 15 harvest)	0.18	0.16	0.28
Melons (May 1 plant date, Aug. 15 harvest)	0.16	0.16	0.16
Melons (Jun. 1 plant date, Sep. 20 harvest)	0.00	0.00	0.00
Melons (Jul. 1 plant date, Oct. 10 harvest)	0.00	0.00	0.00
Olives (year round)	0.75	0.75	0.75
Pasture Grass	0.70	0.70	0.71
Pistachio (Apr. 1 leafout, Nov. 15 leafdrop)	0.81	0.75	0.88
Safflower (Mar. 1 plant date, Aug. 1 harvest)	1.06	0.95	1.17
Low Chilling Stone Fruit (Feb. 15 leafout, Dec. 1 leafdrop)	0.72	0.70	0.73
Stone Fruit (Mar.1 leafout, Nov. 15 leafdrop)			
[Peach, Nectarine, Plum, Apricot]	0.70	0.68	0.71
Late Stone Fruit (Mar. 16 leafout, Nov. 1 leafdrop)	0.67	0.65	0.69
Soft Fruit (Apr. 1 leafout, Nov. 15 leafdrop)			
[Apple, Pear]	0.58	0.55	0.61
Tomato (Mar. 1 plant date, Jul. 20 harvest)	0.68	0.58	0.78
Tomato (Apr. 1 plant date, July 30 harvest)	0.20	0.20	0.24
Walnut, Early (Mar. 15 leafout, Nov. 1 leafdrop)	0.79	0.74	0.83
Walnut, Late (Apr. 1 leafout, Nov. 1 leafdrop)	0.63	0.59	0.68

*NOTE: This information is a reproduction of information compiled by Kings River Conservation District.
This information is provided as a general guideline and may not exactly be reflective of all
locations or varieties.*

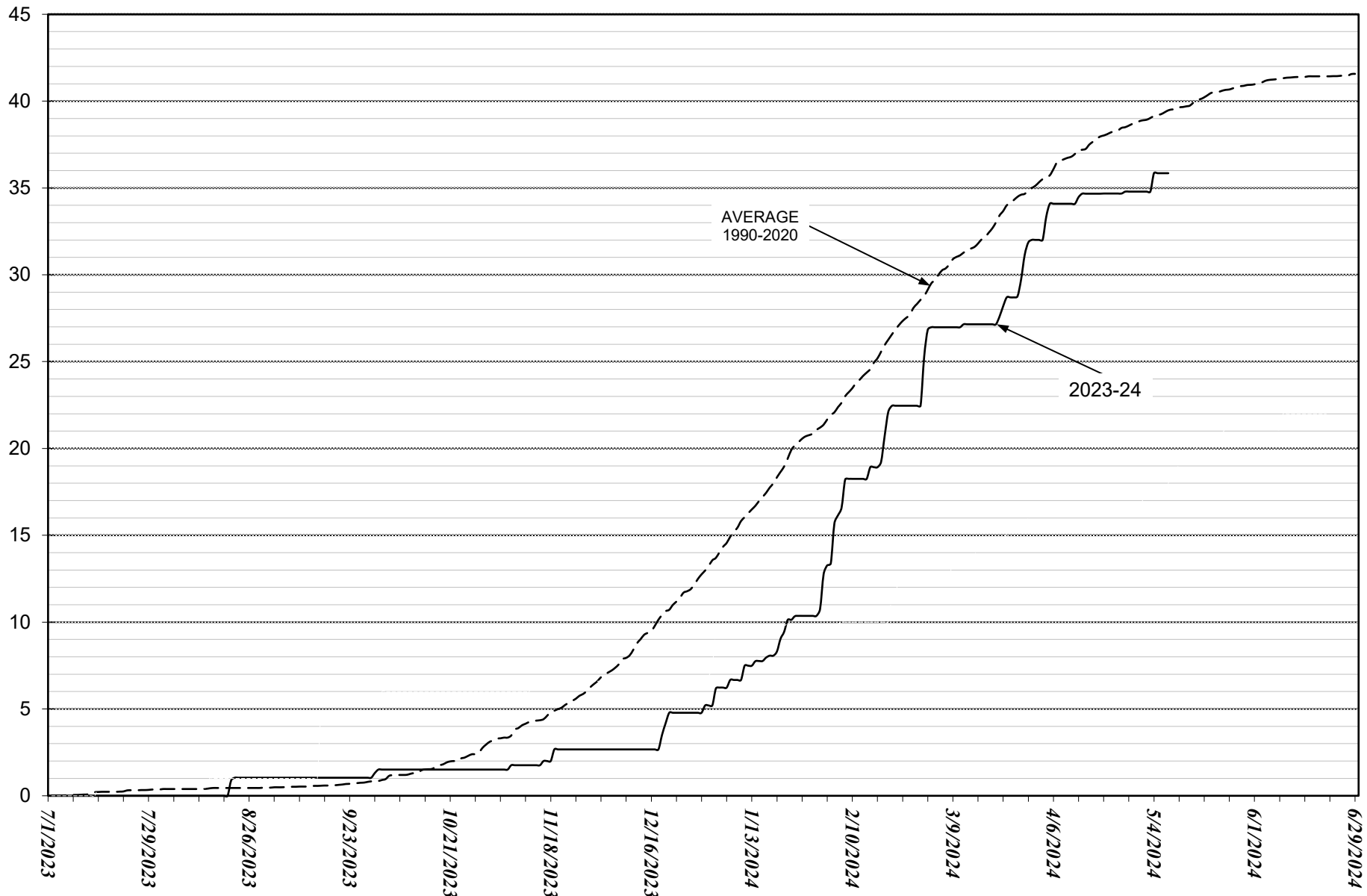
FRIANT WATER AUTHORITY
SAN JOAQUIN SNOW COURSE MEASUREMENTS

STATION NUMBER	REPORTING STATION	ELEVATION (FT.)	DATE MEASURED	DEPTH RECORDED (IN.)	WATER CONTENT (IN.)	DENSITY	APRIL 1 st AVERAGE (IN.)	APRIL 1 st AVERAGE (%)
183	Piute Pass	11,300	Scheduled for measurement by CA Dept of Water Resources					
276	Pioneer Basin	10,400	29-Apr	61.5	28.0	46%	32.6	86%
185	Heart Lake	10,100	30-Apr	47.0	22.0	47%	26.4	83%
187	Rose Marie	10,000	30-Apr	50.5	24.0	48%	27.8	86%
190	Kaiser Pass	9,100	29-Apr	61.0	29.5	48%	36.8	80%
191	Dutch Lake	9,100	29-Apr	42.0	25.0	60%	27.3	92%
193	Cora Lakes	8,400	Scheduled for measurement by Bass Lake Ranger District					
440	Devil's Postpile*	7,569	Scheduled for measurement by CA Dept of Water Resources / DFM-Hydro-SMN					
196	Chilkoot Lake	7,450	Scheduled for measurement by Bass Lake Ranger District					
197	Chilkoot Meadow	7,150	Scheduled for measurement by Bass Lake Ranger District					
200	Clover Meadow	7,000	30-Apr	35.5	14.5	41%	21.6	67%
199	Huntington Lake	7,000	30-Apr	18.0	8.0	44%	19.4	41%
201	Jackass Meadow	6,950	1-May	21.5	10.5	49%	25.8	41%
202	Chiquito Creek	6,800	Scheduled for measurement by Bass Lake Ranger District					
204	Poison Meadow	6,800	Scheduled for measurement by Bass Lake Ranger District					
							Basin Average Percent of April 1st::	72%
							May 1st:	88%

* This course not included in river, basin or Statewide computations.

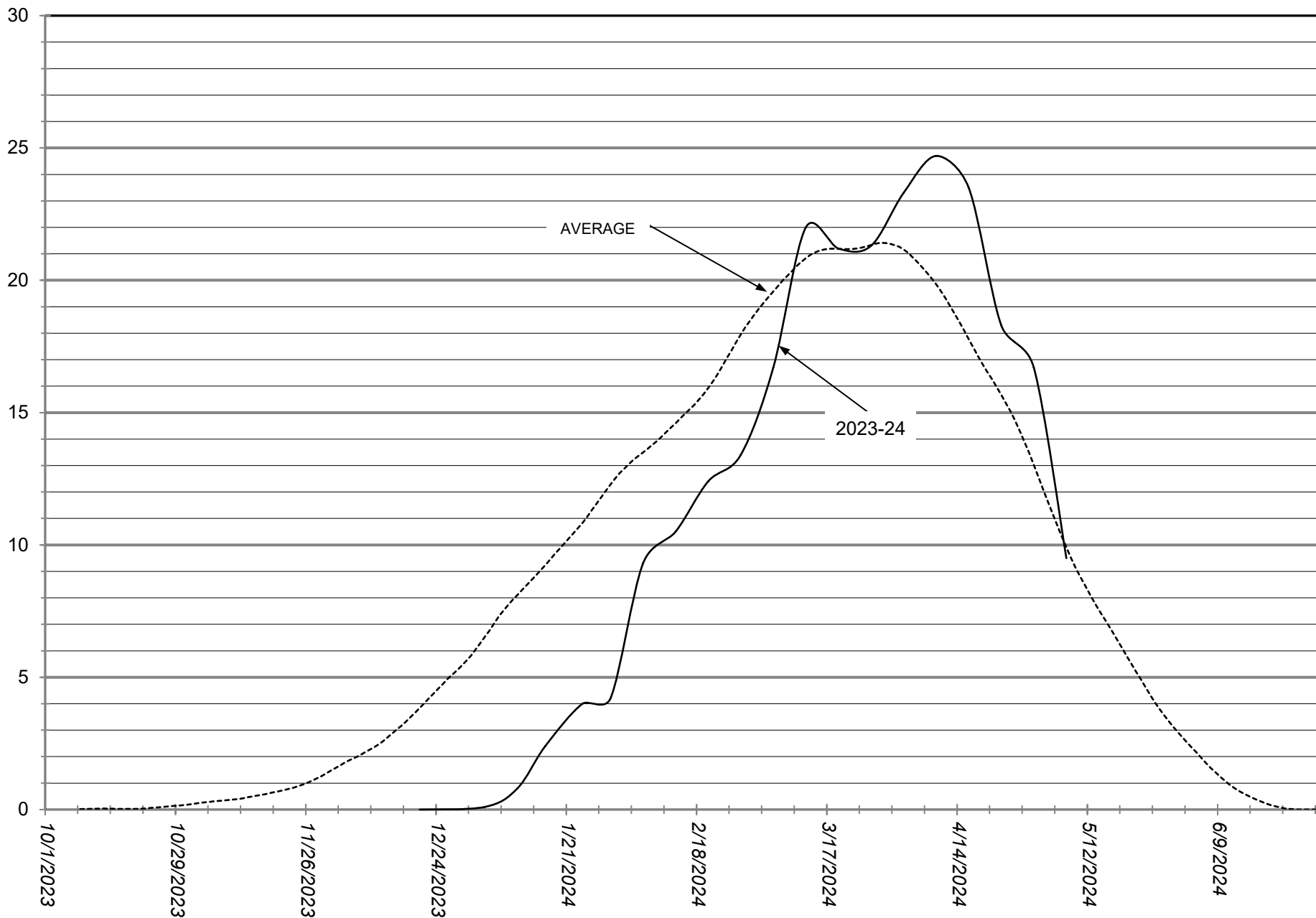
HUNTINGTON PRECIPITATION

Water Accumulation in Inches



HUNTINGTON SNOW DATA

Water Content in Inches



SAN JOAQUIN BASIN

Water Content in Percent of April 1st Average

