

**Runoff Information**

DWR Unimpaired runoff – May 18 Update



**B-120 WATER SUPPLY FORECAST UPDATE SUMMARY**

UNIMPAIRED FLOW FOR - MAY 2021  
(Provisional data, subject to change)

Report generated: May 20, 2021 12:00

**APRIL-JULY FORECAST UPDATE SUMMARY (IN THOUSANDS OF ACRE-FEET)**

DAYS OF MONTH	MAY 01		MAY 11		MAY 18				
	AJ VOL	% AVG	AJ VOL	% AVG	AJ VOL	% AVG	AJ VOL	% AVG	
Stanislaus River below Goodwin Res (blw New Melones)								Average = 682	
90% Exceedance	190	28	190	28	195	29			
50% Exceedance	260	38	250	37	220	32			
10% Exceedance	360	53	340	50	270	40			



**B-120 WATER SUPPLY FORECAST SUMMARY (CONTINUED)**

UNIMPAIRED FLOW FOR - MAY 18, 2021  
(Provisional data, subject to change)

Report generated: May 20, 2021 12:01

**WATER YEAR FORECAST SUMMARY AND MONTHLY DISTRIBUTION (IN THOUSANDS OF ACRE-FEET)**

WATERSHED	OCT THRU JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL	80% PROBABILITY RANGE		WY % AVERAGE
											90%	10%	
Stanislaus, Goodwin	49	29	44	99	90	26	5	1	0	342	315	395	30

**Upstream Operations (Impairment)**

25-May-21	Donnells Storage	Beardsley Storage	TriDam Storage	Spicer Storage	Total Storage
Beginning	53,284	49,485	102,769	93,946	196,715
Oct 2020	43,311	55,250	98,561	82,502	181,063
Nov	24,387	61,361	85,748	76,814	162,562
Dec	25,092	35,286	60,378	71,099	131,477
Jan 2021	18,761	33,453	52,214	66,824	119,038
Feb	10,818	38,559	49,377	64,212	113,589
Mar	11,465	37,388	48,853	65,204	114,057
Apr - 1	14,564	44,472	59,036	72,454	131,490
Apr - 2	22,065	46,506	75,000	83,232	158,232
May - 1	38,972	50,733	89,705	92,907	182,612
May - 2	47,500	50,500	98,000	95,000	193,000
Jun	47,500	49,000	96,500	89,000	185,500
Jul	43,600	46,000	89,600	84,000	173,600
Aug	40,700	43,000	83,700	78,000	161,700
Sep	37,000	40,000	77,000	72,500	149,500
Drawdown			-25,769	-21,446	-47,215

Notes: Actual performance through May 15, thereafter storage is projected based on assumption of 150 cfs from Beardsley and Spicer, each through September. Distribution of storage between Donnells and Beardsley based on observation of the historical record.

# New Melones Operation

## 90% Unimpaired Runoff

25-May-21		Stanislaus River - WY 2021 Projection													All values in 1,000 acre-feet unless otherwise noted			
	Stanislaus Unimpaired	Upstr Storage	Upstr Regulation	NM Inflow	Goodwin OID/SSIID	CVP Contracts	Info 2019-BO	Fish Require	Fish Req - CFS	WQ Rel	Vernalis Rel	DO Rel	Total River	NM Net Evap	NM Storage	Target/FC Release	River (CFS)	
Beginning		197													1,519			
Oct 2020	10	181	16	26	22.6	2.1		38	613	0	0	0	37.7	5	1,497		613	
Nov	10	163	19	29	0.0	1.0		14	227	0	0	0	13.5	2	1,516		227	
Dec	11	131	31	42	0.0	2.6		12	203	0	0	0	12.5	1	1,548		203	
Jan 2021	22	119	12	35	0.0	2.3		13	219	0	0	0	13.5	1	1,555		219	
Feb	26	114	5	31	0.0	1.6		21	370	0	0	0	20.6	2	1,555		370	
Mar	41	114	0	41	35.8	0.1		20	325	0	0	0	20.0	2	1,539		325	
Apr - 1	41	131	-17	23	28.0	2.7	6	6	202	0	10	0	15.8	2	1,512		568	
Apr - 2	50	158	-27	24	36.8	3.9	22	22	687	0	7	0	28.3	2	1,462		892	
May - 1	38	183	-24	14	27.0	4.9	20	20	665	0	3	0	22.6	3	1,415		759	
May - 2	25	193	-10	15	34.8	5.6	5	5	151	0	20	0	24.5	3	1,361		772	
Jun	17	186	8	25	75.0	8.6	9	9	150	0	26	0	34.5	4	1,262		580	
Jul	6	174	12	18	85.0	10.0	9	9	150	0	0	7	16.3	3	1,164		265	
Aug	2	162	12	14	80.0	11.0	9	9	150	0	0	8	17.4	3	1,067		283	
Sep	2	150	12	14	60.0	8.0	9	9	150	0	0	6	14.8	2	999		249	
WY 2021	Approx 302		Formula 433	Approx 349	Approx 485	Approx 64				Approx 0	Approx 65	Approx 21	Approx 292	Approx 34				

Notes: Supplemental releases above SRP are made during May and June for Vernalis flow, and during July-September for DO.

Total Districts Canals - TAF														WY Total
WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
2001	13	0	0	0	0	16	54	75	81	90	87	65		480
2002	13	0	0	0	0	24	69	72	80	92	87	65		502
2003	14	0	0	0	0	42	48	67	80	96	87	52		488
2004	15	1	0	0	0	35	74	90	82	95	87	61		541
2005	11	0	0	0	0	1	45	65	80	93	94	71		460
2006	14	0	0	0	9	6	12	75	72	85	85	70		429
2007	22	0	0	0	0	41	61	74	79	90	86	63		516
2008	13	0	0	0	0	41	76	74	75	94	87	57		519
2009	9	0	0	0	0	34	67	70	72	97	87	61		497
2010	12	0	0	0	0	28	37	64	71	92	85	64		451
2011	12	0	0	0	0	17	48	71	66	90	88	70		462
2012	32	1	0	8	0	27	42	74	76	92	88	61		502
2013	11	0	0	0	0	59	63	71	74	87	78	57		499
2014	10	0	0	0	0	32	63	60	74	75	68	42		425
2015	9	0	0	0	0	41	44	46	54	66	59	47		365
2016	5	0	0	0	0	15	42	49	64	74	69	51		369
2017	23	0	0	0	0	10	33	64	69	80	75	57		412
2018	21	0	0	0	9	22	39	66	74	82	80	52		445
2019	19	0	0	0	0	15	50	49	71	85	82	61		432
2020	25	0	0	0	3	43	52	66	77	87	80	57		490
2021	23	0	0	0	0	36	65	61	Projected					

## San Joaquin River Estimate and Affect

May 25, 2021 90 Exceedence

25-May-21 SJR River										Chippis Days 710/1140	
TAF Merced CRS	TAF Tuolumne La Grange	TAF Stanislaus Goodwin	TAF Combined Tributaries	CFS Combined Tributaries	CFS SJR A/D Vernalis	CFS Fri/Kng Adder	CFS SJR Vernalis				
Oct 2020	13	27	38	78	1,272	-59	0	1,213			
Nov	10	20	14	43	720	473	0	1,193			
Dec	10	24	12	47	763	361	0	1,124			
Jan 2021	12	24	13	49	800	468	0	1,268			
Feb	9	13	21	42	763	740	0	1,503			
Mar	8	10	20	38	622	346	0	968			
Apr - 1	3	8	16	28	993	-91	0	902			
Apr - 2	4	16	28	48	1,519	-114	0	1,405			
May - 1	3	5	23	31	1,038	-173	0	865			
May - 2	3	5	25	32	1,012	-100	0	912			
Jun	5	9	35	48	811	-100	0	711			
Jul	5	9	16	30	491	-100	0	391			
Aug	5	9	17	31	509	-50	0	459			
Sep	5	9	15	29	480	0	0	480			

25-May-21 SJR River										Generally 90% Exceedence Forecast						All values in 1,000 acre-feet unless otherwise noted			
TAF Merced CRS	TAF Tuolumne La Grange	TAF 2-Trib U/S Maze	CFS 2-Trib U/S Maze	CFS A/D Maze*	CFS Maze Flow*	EC Maze	EC-Load Maze Flow	TAF Stanislaus Goodwin	TAF A/D GDW - Mouth	TAF Stanislaus Mouth	CFS Stanislaus Mouth	EC Stanislaus Mouth	EC-Load Stanislaus Mouth	Est Flow at Vernalis CFS	Est EC at Vernalis	Est TAF Vernalis			
Oct 2020	13	27	41	659	120	779	615	479,326	38	-5	33	537	100	53,678	1,213	358	75		
Nov	10	20	29	493	367	860	785	675,071	14	2	15	258	100	25,833	1,193	649	71		
Dec	10	24	34	560	465	1,025	944	967,968	12	0	12	199	100	19,903	1,124	622	69		
Jan 2021	12	24	36	581	431	1,012	1,036	1,048,769	13	1	15	243	100	24,297	1,268	815	78		
Feb	9	13	22	393	697	1,090	1,111	1,210,995	21	1	21	385	100	38,518	1,503	666	83		
Mar	8	10	18	296	431	727	1,218	885,525	20	0	20	330	100	33,049	968	883	59		
Apr - 1	3	8	12	426	205	631	1,100	693,902	16	-2	14	494	120	59,229	902	919	25		
Apr - 2	4	16	20	627	265	892	423	377,322	28	-2	27	843	120	101,203	1,405	342	45		
May - 1	3	5	8	279	172	451	665	299,615	23	-2	20	683	120	81,912	865	441	26		
May - 2	3	5	8	240	0	240	650	155,992	25	2	26	822	120	98,647	912	279	29		
Jun	5	9	14	231	-25	206	1,000	206,248	35	3	37	630	120	75,574	711	396	42		
Jul	5	9	14	226	-50	176	1,000	176,369	16	2	18	295	120	35,411	391	541	24		
Aug	5	9	14	226	-50	176	700	123,458	17	2	19	313	120	37,558	459	351	28		
Sep	5	9	14	231	50	281	700	196,873	15	2	17	279	120	33,446	480	480	29		
Oct																			
Nov																			
Dec																			
WY	95	189	283						292	4	296						683		