



Solano County Water Agency

Lower Putah Creek Riparian Water Availability Forecast: May 1, 2020
(Projected water availability in the absence of Monticello Dam)

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

"Wet" Year Scenario (25% Exceedance)
(if rainfall/runoff for remainder of year is above average)

<i>Month</i>	<i>DD-505</i>	<i>505-Stev</i>	<i>Stev-I80</i>	<i>I80-Mace</i>	<i>Mace-RM 0.0</i>
April	NA	NA	NA	NA	NA
May	203	220	226	217	212
June	83	97	93	84	79
July	37	47	56	47	42
August	10	15	0	0	0
September	5	4	0	0	0
October	5	12	20	12	7

"Normal" Year Scenario (50% Exceedance)
(if rainfall/runoff for remainder of year is average)

<i>Month</i>	<i>DD-505</i>	<i>505-Stev</i>	<i>Stev-I80</i>	<i>I80-Mace</i>	<i>Mace-RM 0.0</i>
April	NA	NA	NA	NA	NA
May	130	148	153	144	140
June	48	61	57	48	43
July	6	16	24	15	10
August	0	6	0	0	0
September	0	0	0	0	0
October	0	7	15	6	2

"Dry" Year Scenario (75% Exceedance)
(if rainfall/runoff for remainder of year is below average)

<i>Month</i>	<i>DD-505</i>	<i>505-Stev</i>	<i>Stev-I80</i>	<i>I80-Mace</i>	<i>Mace-RM 0.0</i>
April	NA	NA	NA	NA	NA
May	67	84	90	81	76
June	13	27	23	14	9
July	0	10	18	9	4
August	0	6	0	0	0
September	0	0	0	0	0
October	0	7	15	6	2



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Notes:

Portions of Reach 2 receive "rising ground water" during all but extreme drought conditions. Consequently, there are instances when most but not all of reach 2 is dry (lacks riparian water). The stream flow projections for Reach 2 are based on net stream flow gains and losses occurring within the reach and therefore, may underestimate riparian water availability at specific locations along Reach 2.

Key:

DD	Putah Diversion Dam
505	Interstate Highway 505 Bridge
Stev	Stevenson Road Bridge
I80	Interstate Highway I-80 Bridge
Mace	Mace Boulevard Bridge
RM 0.0	River Mile 0.0 of Putah Creek (Western most edge of Putah Creek)



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Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	529	166	73	50	24	56
10%	NA	394	128	63	26	15	41
15%	NA	316	102	56	20	12	18
20%	NA	248	95	46	14	7	8
25%	NA	203	83	37	10	5	5
30%	NA	183	71	26	5	3	0
35%	NA	163	61	16	3	2	0
40%	NA	147	57	11	1	0	0
45%	NA	137	53	8	0	0	0
50%	NA	130	48	6	0	0	0
55%	NA	104	40	4	0	0	0
60%	NA	93	30	2	0	0	0
65%	NA	81	22	0	0	0	0
70%	NA	70	15	0	0	0	0
75%	NA	67	13	0	0	0	0
80%	NA	56	9	0	0	0	0
85%	NA	49	2	0	0	0	0
90%	NA	29	0	0	0	0	0
95%	NA	22	0	0	0	0	0
100%	NA	3	0	0	0	0	0



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Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	546	181	83	56	23	63
10%	NA	411	142	73	32	14	48
15%	NA	333	116	66	26	11	25
20%	NA	265	109	56	19	6	15
25%	NA	220	97	47	15	4	12
30%	NA	201	85	36	11	2	7
35%	NA	180	75	27	8	1	7
40%	NA	165	71	21	7	0	7
45%	NA	154	67	18	6	0	7
50%	NA	148	61	16	6	0	7
55%	NA	122	54	14	6	0	7
60%	NA	110	44	12	6	0	7
65%	NA	99	35	10	6	0	7
70%	NA	88	29	10	6	0	7
75%	NA	84	27	10	6	0	7
80%	NA	73	23	10	6	0	7
85%	NA	66	16	10	6	0	7
90%	NA	46	14	10	6	0	7
95%	NA	40	14	10	6	0	7
100%	NA	21	14	10	6	0	7



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Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	552	177	92	31	19	71
10%	NA	417	138	82	8	11	57
15%	NA	339	112	74	2	7	33
20%	NA	271	105	64	0	3	24
25%	NA	226	93	56	0	0	20
30%	NA	206	80	44	0	0	15
35%	NA	186	70	35	0	0	15
40%	NA	171	66	30	0	0	15
45%	NA	160	62	26	0	0	15
50%	NA	153	57	24	0	0	15
55%	NA	128	49	22	0	0	15
60%	NA	116	39	21	0	0	15
65%	NA	105	31	18	0	0	15
70%	NA	93	24	18	0	0	15
75%	NA	90	23	18	0	0	15
80%	NA	79	19	18	0	0	15
85%	NA	72	11	18	0	0	15
90%	NA	52	9	18	0	0	15
95%	NA	46	9	18	0	0	15
100%	NA	27	9	18	0	0	15



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Lower Putah Creek Riparian Water Availability Forecast: May 1, 2020
(Projected water availability in the absence of Monticello Dam)

Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	543	168	83	23	11	63
10%	NA	408	129	73	0	2	48
15%	NA	330	103	65	0	0	24
20%	NA	262	96	55	0	0	15
25%	NA	217	84	47	0	0	12
30%	NA	197	72	36	0	0	6
35%	NA	177	61	26	0	0	6
40%	NA	162	58	21	0	0	6
45%	NA	151	53	18	0	0	6
50%	NA	144	48	15	0	0	6
55%	NA	119	40	13	0	0	6
60%	NA	107	30	12	0	0	6
65%	NA	96	22	9	0	0	6
70%	NA	84	16	9	0	0	6
75%	NA	81	14	9	0	0	6
80%	NA	70	10	9	0	0	6
85%	NA	63	2	9	0	0	6
90%	NA	43	0	9	0	0	6
95%	NA	37	0	9	0	0	6
100%	NA	18	0	9	0	0	6



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Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek

Average Monthly Flow in Cubic Feet Per Second (cfs)
(projected stream flow at downstream end of reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	539	163	78	18	6	58
10%	NA	403	124	68	0	0	43
15%	NA	326	98	61	0	0	20
20%	NA	258	91	50	0	0	10
25%	NA	212	79	42	0	0	7
30%	NA	193	67	31	0	0	2
35%	NA	172	56	21	0	0	2
40%	NA	157	53	16	0	0	2
45%	NA	146	48	13	0	0	2
50%	NA	140	43	10	0	0	2
55%	NA	114	35	8	0	0	2
60%	NA	102	25	7	0	0	2
65%	NA	91	17	4	0	0	2
70%	NA	80	11	4	0	0	2
75%	NA	76	9	4	0	0	2
80%	NA	65	5	4	0	0	2
85%	NA	58	0	4	0	0	2
90%	NA	39	0	4	0	0	2
95%	NA	32	0	4	0	0	1
100%	NA	13	0	4	0	0	1



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(Projected water availability in the absence of Monticello Dam)

Raw Data

(data presented for Reach 1 through 5)

reach	Description	exc	Apr	May	Jun	Jul	Aug	Sep	Oct
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	5%	529	166	73	50	24	56	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	10%	394	128	63	26	15	41	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	15%	316	102	56	20	12	18	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	20%	248	95	46	14	7	8	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	25%	203	83	37	10	5	5	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	30%	183	71	28	5	3	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	35%	163	61	16	3	2	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	40%	147	57	11	1	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	45%	137	53	8	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	50%	130	48	6	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	55%	104	40	4	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	60%	93	30	2	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	65%	81	22	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	70%	70	15	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	75%	67	13	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	80%	56	9	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	85%	49	2	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	90%	29	0	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	95%	22	0	0	0	0	0	
1	Reach No. 1: Putah Diversion Dam to Hwy. 505 Bridge	100%	3	0	0	0	0	0	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	5%	546	181	83	58	23	63	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	10%	411	142	73	32	14	48	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	15%	333	116	66	26	11	25	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	20%	265	109	58	19	6	15	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	25%	220	97	47	15	4	12	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	30%	201	85	36	11	2	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	35%	180	75	27	8	1	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	40%	165	71	21	7	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	45%	154	67	18	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	50%	148	61	16	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	55%	122	54	14	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	60%	110	44	12	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	65%	99	35	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	70%	88	29	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	75%	84	27	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	80%	73	23	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	85%	66	16	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	90%	46	14	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	95%	40	14	10	6	0	7	
2	Reach No. 2: Hwy. 505 Bridge to Stevenson Road Bridge	100%	21	14	10	6	0	7	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	5%	552	177	92	31	19	71	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	10%	417	138	82	8	11	57	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	15%	339	112	74	2	7	33	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	20%	271	108	64	0	3	24	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	25%	226	93	56	0	0	20	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	30%	206	80	44	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	35%	186	70	35	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	40%	171	66	30	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	45%	160	62	26	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	50%	153	57	24	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	55%	128	49	22	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	60%	116	39	21	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	65%	105	31	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	70%	93	24	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	75%	90	23	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	80%	79	19	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	85%	72	11	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	90%	52	9	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	95%	46	9	18	0	0	15	
3	Reach No. 3: Stevenson Road Bridge to Hwy. 180 Bridge	100%	27	9	18	0	0	15	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	5%	543	168	83	23	11	63	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	10%	408	129	73	0	2	48	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	15%	330	103	65	0	0	24	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	20%	262	96	55	0	0	15	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	25%	217	84	47	0	0	12	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	30%	197	72	36	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	35%	177	61	26	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	40%	162	58	21	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	45%	151	53	18	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	50%	144	48	15	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	55%	119	40	13	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	60%	107	30	12	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	65%	96	22	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	70%	84	16	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	75%	81	14	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	80%	70	10	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	85%	63	2	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	90%	43	0	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	95%	37	0	9	0	0	6	
4	Reach No. 4: Hwy. 180 Bridge to Mace Boulevard Bridge	100%	16	0	9	0	0	6	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	5%	539	163	78	18	8	58	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	10%	403	124	68	0	0	43	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	15%	326	98	61	0	0	20	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	20%	258	91	50	0	0	10	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	25%	212	79	42	0	0	7	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	30%	193	67	31	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	35%	172	56	21	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	40%	157	53	16	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	45%	146	48	13	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	50%	140	43	10	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	55%	114	35	8	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	60%	102	25	7	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	65%	91	17	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	70%	80	11	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	75%	76	9	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	80%	65	5	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	85%	58	0	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	90%	39	0	4	0	0	2	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	95%	32	0	4	0	0	1	
5	Reach No. 5: Mace Blvd. Bridge to River Mile 0.0 of Putah Creek	100%	13	0	4	0	0	1	