



Solano County Water Agency

Lower Putah Creek Riparian Water Availability Forecast: May 1, 2017
(Projected water availability in the absence of Monticello Dam)

Average Monthly Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

"Wet" Year Scenario (25% Exceedance)

<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	2	-8	-11	3	2
June	-4	-14	2	1	1
July	1	-7	-9	1	1
August	3	-4	12	1	1
September	12	0	-5	1	1
October	9	-8	-9	1	1

"Normal" Year Scenario (50% Exceedance)

<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	2	-8	-11	3	2
June	-4	-14	2	1	1
July	1	-7	-9	1	1
August	3	-4	12	1	1
September	13	0	-5	1	1
October	9	-8	-9	1	1

"Dry" Year Scenario (75% Exceedance)

<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	2	-8	-11	3	2
June	-4	-14	2	1	1
July	1	-7	-9	1	1
August	3	-4	12	1	1
September	13	0	-5	1	1
October	9	-8	-9	1	1



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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 Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	2	-4	1	3	12	9
10%	NA	2	-4	1	3	12	9
15%	NA	2	-4	1	3	12	9
20%	NA	2	-4	1	3	12	9
25%	NA	2	-4	1	3	12	9
30%	NA	2	-4	1	3	12	9
35%	NA	2	-4	1	3	13	9
40%	NA	2	-4	1	3	13	9
45%	NA	2	-4	1	3	13	9
50%	NA	2	-4	1	3	13	9
55%	NA	2	-4	1	3	13	9
60%	NA	2	-4	1	3	13	9
65%	NA	2	-4	1	3	13	9
70%	NA	2	-4	1	3	13	9
75%	NA	2	-4	1	3	13	9
80%	NA	2	-4	1	3	13	9
85%	NA	2	-4	1	3	13	9
90%	NA	2	-4	1	3	13	9
95%	NA	2	-4	1	3	13	9
100%	NA	2	-4	1	3	13	9



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

Average Monthly Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	-8	-15	-8	-4	0	-8
10%	NA	-8	-14	-8	-4	0	-8
15%	NA	-8	-14	-8	-4	0	-8
20%	NA	-8	-14	-7	-4	0	-8
25%	NA	-8	-14	-7	-4	0	-8
30%	NA	-8	-14	-7	-4	0	-8
35%	NA	-8	-14	-7	-4	0	-8
40%	NA	-8	-14	-7	-4	0	-8
45%	NA	-8	-14	-7	-4	0	-8
50%	NA	-8	-14	-7	-4	0	-8
55%	NA	-8	-14	-7	-4	0	-8
60%	NA	-8	-14	-7	-4	0	-8
65%	NA	-8	-14	-7	-4	0	-8
70%	NA	-8	-14	-7	-4	0	-8
75%	NA	-8	-14	-7	-4	0	-8
80%	NA	-8	-14	-7	-4	0	-8
85%	NA	-8	-14	-7	-4	0	-8
90%	NA	-8	-14	-7	-4	0	-8
95%	NA	-8	-14	-7	-3	0	-8
100%	NA	-8	-14	-7	-3	1	-8



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

Average Monthly Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	-11	2	-9	12	-5	-9
10%	NA	-11	2	-9	12	-5	-9
15%	NA	-11	2	-9	12	-5	-9
20%	NA	-11	2	-9	12	-5	-9
25%	NA	-11	2	-9	12	-5	-9
30%	NA	-11	2	-9	12	-5	-9
35%	NA	-11	2	-9	12	-5	-9
40%	NA	-11	2	-9	12	-5	-9
45%	NA	-11	2	-9	12	-5	-9
50%	NA	-11	2	-9	12	-5	-9
55%	NA	-11	2	-9	12	-5	-9
60%	NA	-11	2	-9	12	-5	-9
65%	NA	-11	2	-9	12	-5	-9
70%	NA	-11	2	-9	12	-5	-9
75%	NA	-11	2	-9	12	-5	-9
80%	NA	-11	2	-9	12	-5	-9
85%	NA	-11	2	-9	12	-5	-9
90%	NA	-11	2	-9	12	-5	-9
95%	NA	-11	2	-9	12	-5	-9
100%	NA	-11	2	-9	12	-5	-9



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

Average Monthly Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	3	1	1	1	1	1
10%	NA	3	1	1	1	1	1
15%	NA	3	1	1	1	1	1
20%	NA	3	1	1	1	1	1
25%	NA	3	1	1	1	1	1
30%	NA	3	1	1	1	1	1
35%	NA	3	1	1	1	1	1
40%	NA	3	1	1	1	1	1
45%	NA	3	1	1	1	1	1
50%	NA	3	1	1	1	1	1
55%	NA	3	1	1	1	1	1
60%	NA	3	1	1	1	1	1
65%	NA	3	1	1	1	1	1
70%	NA	3	1	1	1	1	1
75%	NA	3	1	1	1	1	1
80%	NA	3	1	1	1	1	1
85%	NA	3	1	1	1	1	1
90%	NA	3	1	1	1	1	1
95%	NA	3	1	1	1	1	1
100%	NA	3	2	2	2	2	2



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

Average Monthly Gain(-) or Loss(+) in Cubic Feet Per Second (cfs)
(projected Average gain or loss in the reach)

Percent Exceedance	Apr	May	Jun	Jul	Aug	Sep	Oct
5%	NA	2	1	1	1	1	1
10%	NA	2	1	1	1	1	1
15%	NA	2	1	1	1	1	1
20%	NA	2	1	1	1	1	1
25%	NA	2	1	1	1	1	1
30%	NA	2	1	1	1	1	1
35%	NA	2	1	1	1	1	1
40%	NA	2	1	1	1	1	1
45%	NA	2	1	1	1	1	1
50%	NA	2	1	1	1	1	1
55%	NA	2	1	1	1	1	1
60%	NA	2	1	1	1	1	1
65%	NA	2	1	1	1	1	1
70%	NA	2	1	1	1	1	1
75%	NA	2	1	1	1	1	1
80%	NA	2	1	1	1	1	1
85%	NA	2	1	1	1	1	1
90%	NA	2	1	1	1	1	1
95%	NA	2	1	1	1	1	1
100%	NA	2	1	1	1	1	1

