

Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 12, Dec 2021 TUCO)

Report Date: 5/6/2022

Units are cfs unless noted otherwise

	4/29/2022	4/30/2022	5/1/2022	5/2/2022	5/3/2022	5/4/2022	5/5/2022
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	46.0	46.0	52.0	55.0	63.0	60.0	58.0
PVID Requested Delivery	6.0	6.0	11.9	15.0	21.7	20.4	18.0
PVID Canals Actual Delivery	3.0	3.0	7.0	10.0	12.0	12.0	12.0
East Fork Release	43.0	43.0	45.0	45.0	51.0	48.0	46.0
PVID E Fork Diversions	3.0	3.0	4.9	5.0	9.7	8.4	6.0
PVID Water Use - PG&E Contract	6.0	6.0	11.9	15.0	21.7	20.4	18.0
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID (Import)	40.0	40.0	40.1	40.0	41.3	39.6	40.0
PVID Canal Net Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	52.9	57.3	59.4	63.8	50.1	68.5	63.8
Net Reach Loss(-)/Gain(+)	+6.9	+11.3	+7.4	+8.8	-12.9	+8.5	+5.8
Unimpaired Natural Flow @ Calpella (est.)	12.9	17.3	19.3	23.8	8.8	28.9	23.8
Non-PVID East Fork Net Reach Losses (est.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

II. Lake Mendocino

Reservoir Operations

Calculated Inflow (ac-ft)	103	115	132	118	116	135	131
(cfs)	52	58	66	59	58	68	66
Natural Flow	13	18	26	24	17	29	26
Import	39	40	40	36	41	39	40
Storage Change (ac-ft)	+30.0	+44.0	+59.0	+45.0	+44.0	+59.0	+59.0
(cfs)	+15	+22	+30	+23	+22	+30	+30
Stored Natural Flow (cfs)	13	18	26	23	17	29	26
Stored Import Water (cfs)	2	4	3	0	5	1	4
Evaporation (ac-ft)	17.5	15.8	17.2	17.2	16.4	20.7	16.4
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	28	28	28	28	28	28	28
Storage (Project Water)	0	0	0	0	0	0	0
Natural Flow	0	0	0	0	0	0	0
Import Water	28	28	28	28	28	28	28
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage	<i>Rvr mi.</i>						
CVD Release	99.9	28	28	28	28	28	28
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	28	28	28	28	28	28	28
Project Water Release Required	No	No	No	No	No	No	No

III. Upper Russian River Reach

Minimum Instream Flow Requirement

Controlling Compliance Gage

Min Gage Flow	56	54	52	50	49	48	47
Controlling Gage	Forks	Forks	Forks	Forks	Forks	Forks	Forks

All Compliance Gages

	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	56	54	52	50	49	47
Talmage (USGS 11462080)	96.1	71	66	63	59	57	53
Hopland (USGS 11462500)	84.8	93	86	81	76	72	65
Cloverdale (USGS 11463000)	70.9	146	136	127	118	111	99
Geyersville (USGS 11463500)	54.4	170	155	146	135	126	111
Jimtown (USGS 11463682)	48.5	229	210	197	186	172	152
Digger Bend (USGS 11463980)	38.2	233	209	193	177	164	144
Healdsburg (USGS 11464000)	35.6	223	197	177	163	150	131

Net Reach Loss(-)/Gain(+)

Forks - Talmage	+14	+11	+11	+8	+8	+7	+6
Talmage - Hopland	+18	+18	+18	+16	+15	+13	+11
Hopland - Cloverdale	+48	+47	+45	+40	+38	+35	+32
Cloverdale - Jimtown	+74	+70	+64	+62	+57	+52	+51
Jimtown - Digger Bend	-0	-5	-7	-11	-11	-10	-5
Digger Bend - Healdsburg	-17	-17	-21	-19	-18	-17	-17
Upper Russian Net Reach Loss/Gain	+137	+125	+110	+96	+89	+80	+78

CVD Project Water Release to Meet Min Flow Requirement

Net Reach Loss(-)/Gain(+) to Controlling Gage	+0	+0	+0	+0	+0	+0	+0
Storage (Project Water)	0	0	0	0	0	0	0
Pass-through Water (Nat. + Imp.) + Natural	0	0	0	0	0	0	0
Total Pass-through Water	28	28	28	28	28	28	28
Project Water Release Required	No	No	No	No	No	No	No

Notes:

- Water Accounting for the Upper Russian River is an analysis that approximates the current conditions based on methodology in Term 11 (2/11/21 Order) report and modified by Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

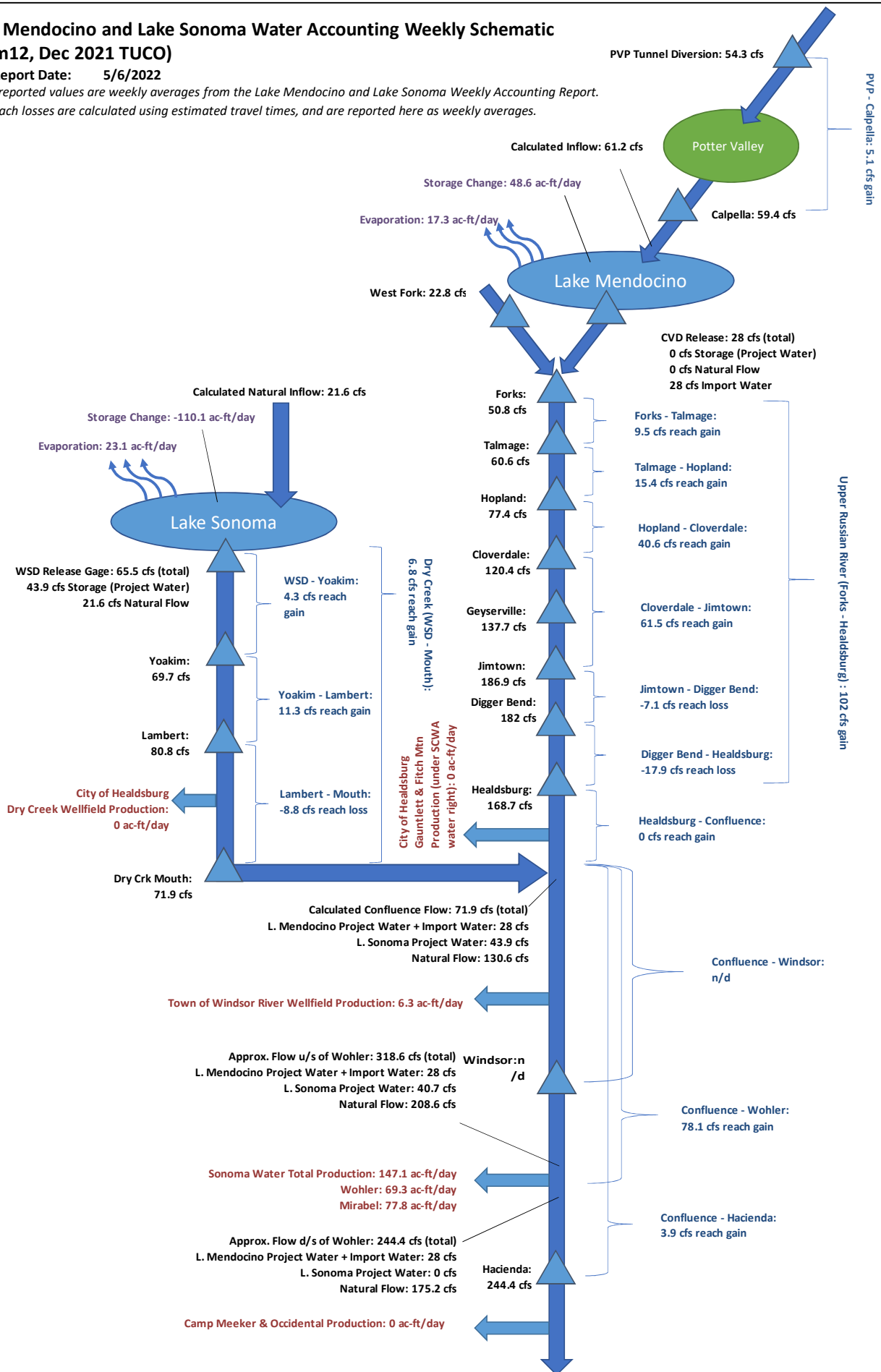
Notes:

- *Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).*

Lake Mendocino and Lake Sonoma Water Accounting Weekly Schematic (Term12, Dec 2021 TUCO)

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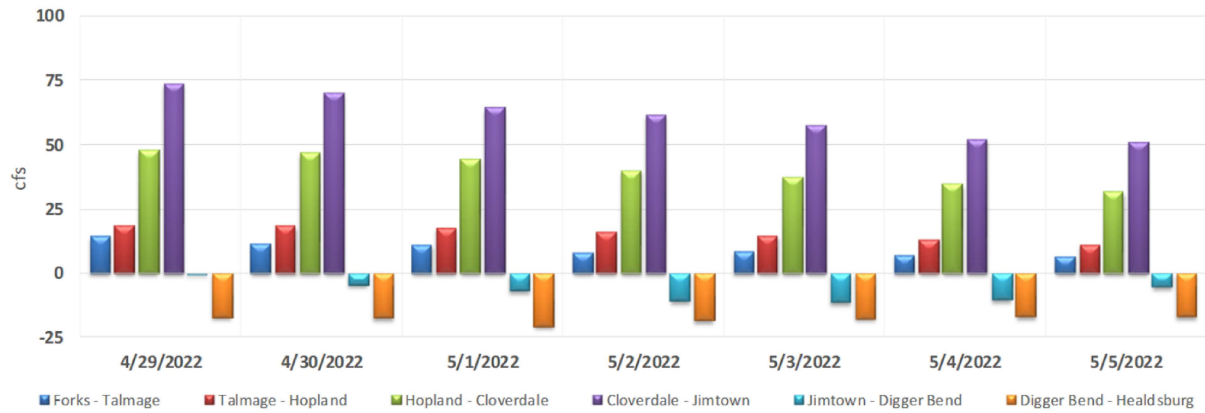
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
 Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



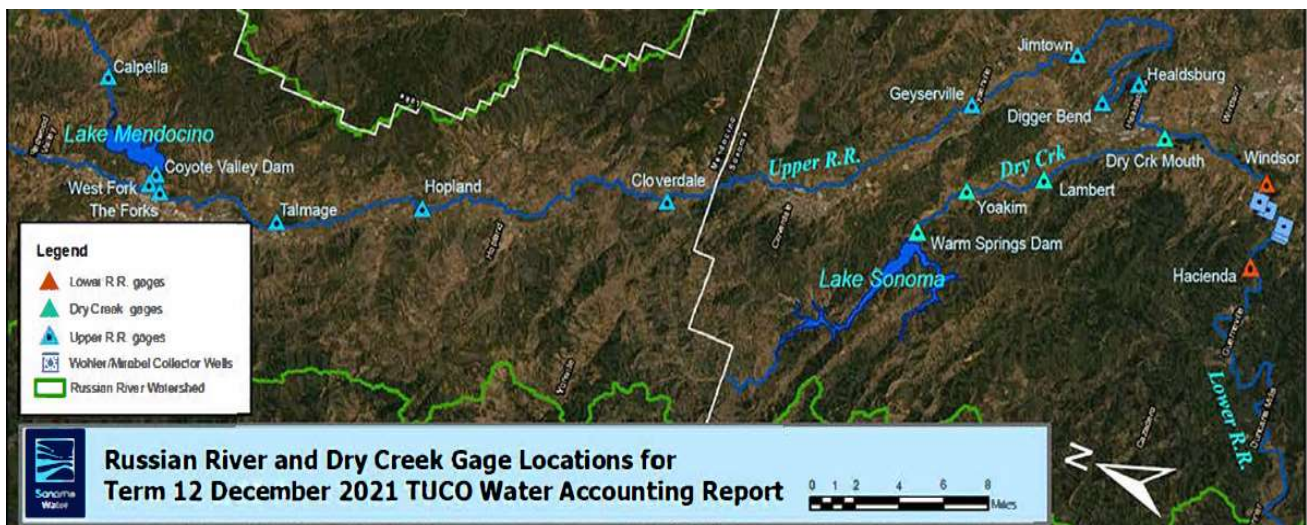
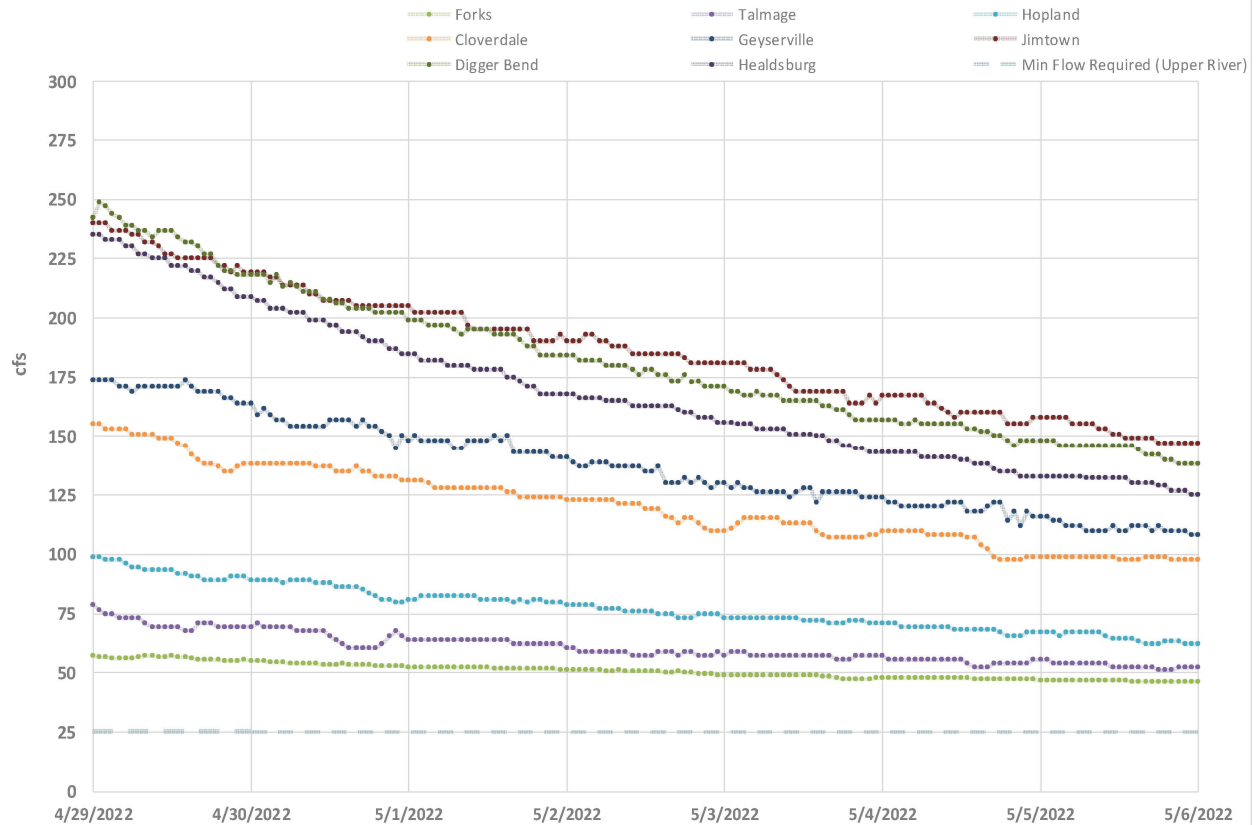
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS



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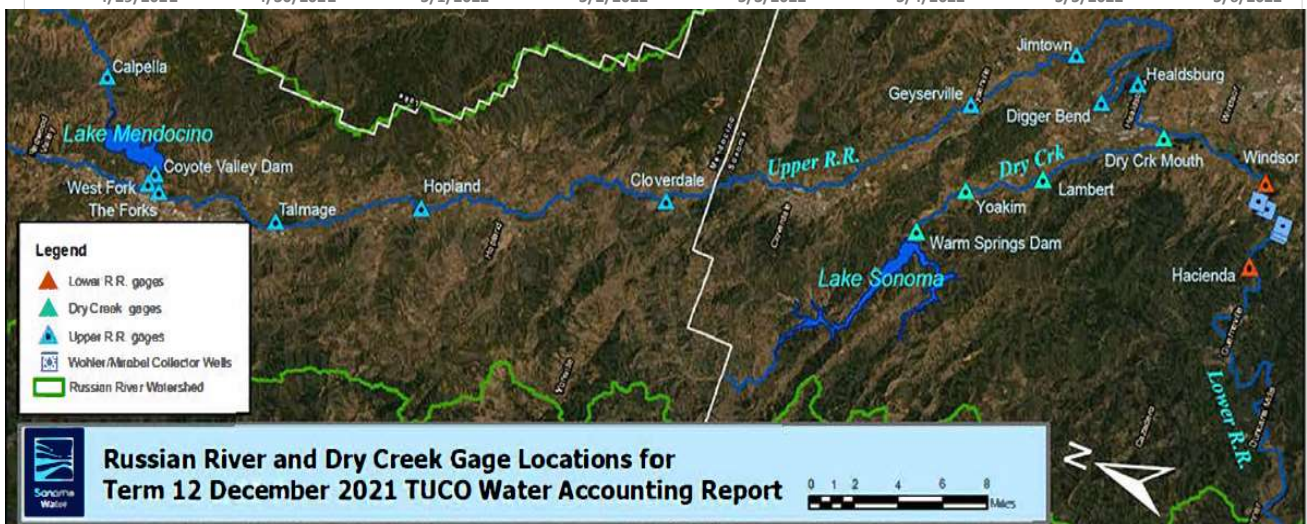
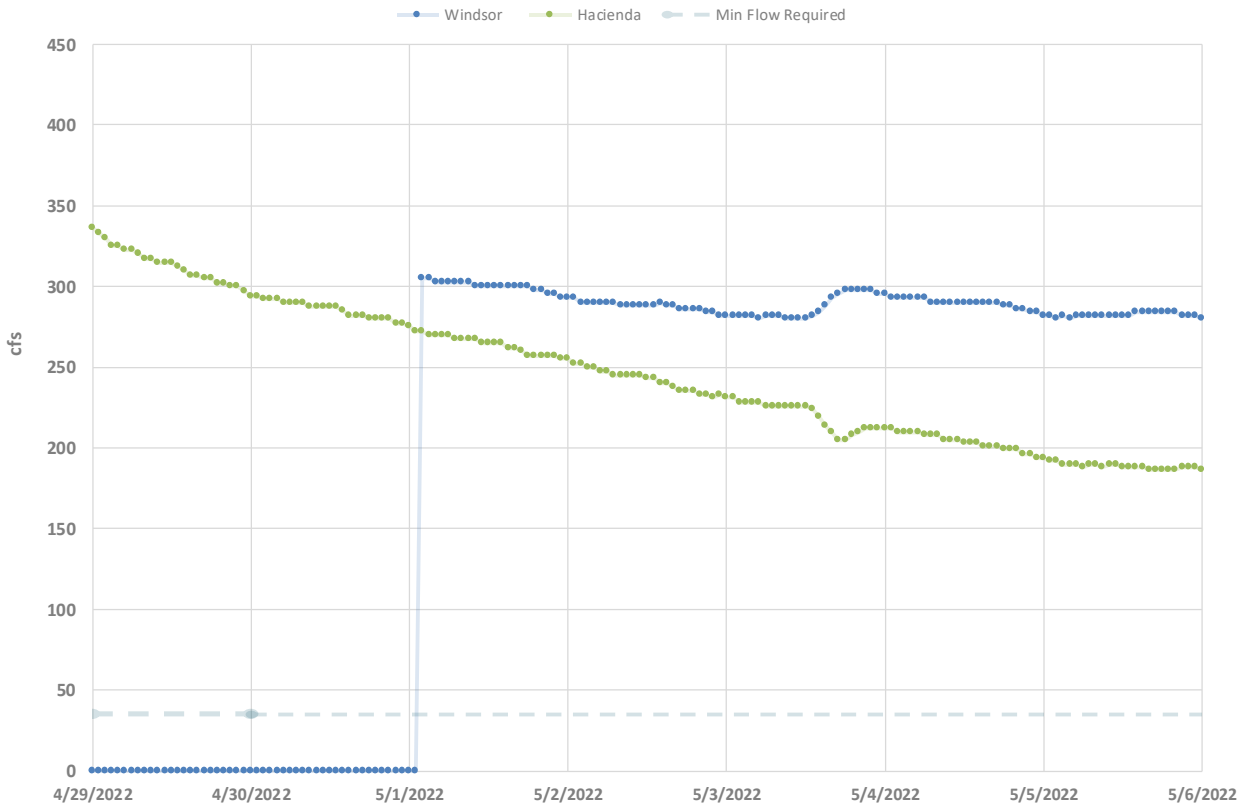
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



Note: Windsor gage is a seasonal gage and not operational. Reach gains for Windsor – Hacienda reach calculated with Healdsburg gages as upstream gages

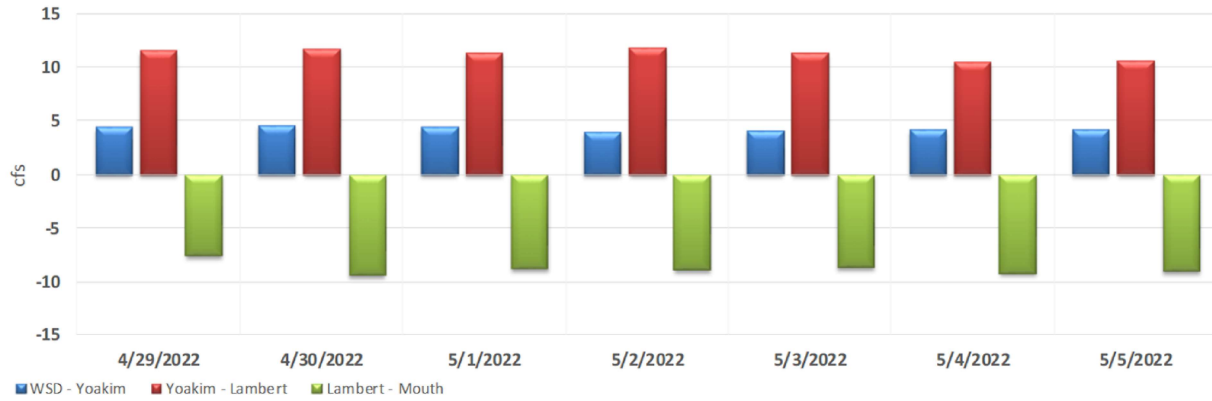
LOWER RUSSIAN RIVER STREAM FLOWS



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DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS

