

Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Terms 12 & 13 June 2021 TUCO)

Report Date: 8/13/2021

Units are cfs unless noted otherwise

	8/6/2021	8/7/2021	8/8/2021	8/9/2021	8/10/2021	8/11/2021	8/12/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	36.0	35.0	34.0	31.0	29.0	29.0	30.0
PVID Requested Delivery	30.0	30.0	30.0	26.7	25.0	30.0	30.0
PVID Canals Actual Delivery	10.8	10.7	10.7	10.5	10.4	10.3	10.4
East Fork Release	25.2	24.3	23.3	20.5	18.6	18.7	19.6
PVID E Fork Diversions	19.2	19.3	19.3	16.2	14.6	19.7	19.6
PVID Water Use - PG&E Contract	30.0	30.0	30.0	26.7	25.0	30.0	30.0
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID	6.0	5.0	4.0	4.3	4.0	-1.0	0.0
PVID Canal Net Return Flow (assumed)	6.6	7.1	9.7	12.6	5.6	9.7	9.2
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	12.6	12.1	13.7	16.9	9.6	8.7	9.2
Net Reach Loss(-)/Gain(+)	-23.4	-22.9	-20.3	-14.1	-19.4	-20.3	-20.8
Unimpaired Natural Flow @ Calpella (est.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)	16.1	40.7	36.4	47.5	19.3	19.2	28.0
(cfs)	8	21	18	24	10	10	14
Natural Flow	0	0	0	0	0	0	0
Import	8	21	18	24	10	10	14
Storage Change (ac-ft)	-224.0	-204.0	-210.0	-200.0	-225.0	-222.0	-203.0
(cfs)	-113	-103	-106	-101	-113	-112	-102
Stored Natural Flow (cfs)	0	0	0	0	0	0	0
Stored Import Water (cfs)	0	0	0	0	0	0	0
Evaporation (ac-ft)	18.0	17.9	18.3	19.4	19.9	19.1	14.6
RVCWD Diversion (ac-ft) (est.)	0	0	0	0	0	0	0
CVD Release Gage	112	114	115	115	113	112	109
Storage (Project Water)	104	94	97	91	103	102	95
Natural Flow	0	0	0	0	0	0	0
Import Water	8	21	18	24	10	10	14
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage	<i>Rvr mi.</i>						
CVD Release	99.9	112	114	115	113	112	109
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	8	21	18	24	10	10	14
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

III. Upper Russian River Reach

Minimum Instream Flow Requirement

Controlling Compliance Gage							
Min Gage Flow	28	29	30	32	34	36	42
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
All Compliance Gages	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	112	114	115	113	112	109
Talmage (USGS 11462080)	96.1	94	94	96	93	89	89
Hopland (USGS 11462500)	84.8	90	91	93	93	87	80
Cloverdale (USGS 11463000)	70.9	75	74	74	78	74	74
Geyserville (USGS 11463500)	54.4	54	57	58	60	59	56
Jimtown (USGS 11463682)	48.5	45	48	52	55	52	51
Digger Bend (USGS 11463980)	38.2	37	38	41	44	42	42
Healdsburg (USGS 11464000)	35.6	28	29	30	32	34	42

Net Reach Loss(-)/Gain(+)

Forks - Talmage	-20	-19	-22	-20	-21	-23	-22
Talmage - Hopland	-9	-9	-7	-6	-8	-9	-9
Hopland - Cloverdale	-9	-10	-11	-10	-11	-10	-6
Cloverdale - Jimtown	-30	-29	-27	-24	-25	-28	-25
Jimtown - Digger Bend	-9	-8	-9	-10	-10	-10	-10
Digger Bend - Healdsburg	-2	-2	-2	-1	-1	-1	-0
Upper Russian Net Reach Loss/Gain	-78	-77	-77	-71	-75	-81	-72

CVD Project Water Release to Meet Min Flow Requirement

Net Reach Loss(-)/Gain(+) to Controlling Gage	-78	-77	-77	-71	-75	-81	-72
Storage (Project Water)	78	77	77	71	75	81	72
Pass-through Water (Natural + Import)	0	0	0	0	0	0	0
Total Pass-through Water	8	21	18	24	10	10	14
Project Water Release Required	Yes	No	No	No	Yes	Yes	Yes

Notes:

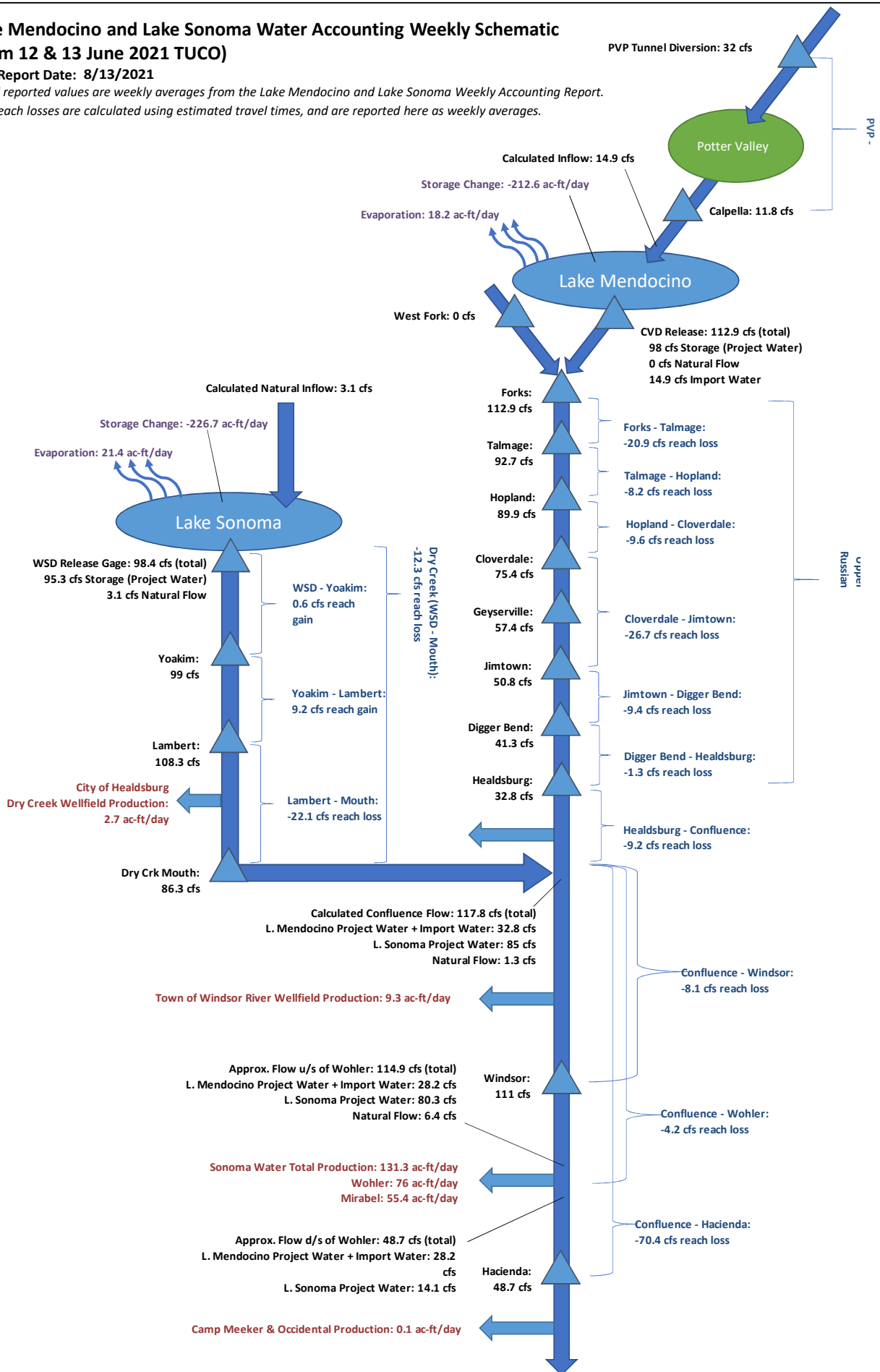
- Water Accounting for the Upper Russian River is an analysis that approximates the current conditions based on methodology in Term 11 (2/11/21 Order) report and modified by Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

	8/6/2021	8/7/2021	8/8/2021	8/9/2021	8/10/2021	8/11/2021	8/12/2021
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-246.0	-246.0	-230.0	-179.0	-246.0	-228.0	-212.0
(cfs)	-124	-124	-116	-90	-124	-115	-107
Evaporation (ac-ft)	21.2	21.2	22.3	23.4	25.5	22.2	14.4
Inflow (Natural Flow)	0	0	0	22	0	0	0
WSD Release Gage	99	99	99	100	101	97	94
Storage (Project Water)	99	99	99	78	101	97	94
Natural Flow	0	0	0	22	0	0	0
V. Lower Dry Creek Reach							
Minimum Instream Flow Requirement	25	25	25	25	25	25	25
Controlling Compliance Gage							
Min Gage Flow	87	86	87	87	88	86	83
Controlling Gage	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth
All Compliance Gages	Crk mi.						
WSD Release	14.3	99	99	100	101	97	94
Yoakim (USGS 11465200)	11.1	101	102	99	101	97	94
Lambert (USGS 11465240)	6.8	108	108	109	110	108	104
Dry Crk Mouth (USGS 11465350)	0.1	87	86	87	87	88	83
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	0	0	0	22	0	0	0
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+3	+3	+0	-1	-0	-0	-1
Yoakim - Lambert	+6	+7	+9	+11	+11	+10	+11
Lambert - Dry Crk Mouth	-21	-22	-21	-22	-23	-23	-22
WSD - Dry Crk Mouth	-12	-12	-12	-12	-13	-13	-12
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	-12	-12	-12	+9	-13	-13	-12
Project Water Release Required	Yes	Yes	Yes	No	Yes	Yes	Yes
VI. Russian River - Dry Creek Confluence							
Upper Russian River Flow (Healdsburg Gage)							
L. Mendocino Project Water + Import Water	28	29	30	32	34	36	42
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	87	86	87	78	88	86	83
Natural Flow	0	0	0	9	0	0	0
Russian River d/s of Confluence Flow							
L. Mendocino Project Water + Import Water	115	115	117	119	122	122	124
L. Sonoma Project Water	28	29	30	32	34	36	42
L. Sonoma Project Water	87	86	87	78	88	86	83
Natural Flow	0	0	0	9	0	0	0
VII. Lower Russian River Reach							
Minimum Instream Flow Requirement	35	35	35	35	35	35	35
Controlling Compliance Gage							
Min Gage Flow	41	46	48	51	52	51	53
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages	Bvr mi.						
Windsor (USGS 11465390)	26.6	107	108	112	114	115	112
Hacienda (USGS 11467000)	21.8	41	46	51	52	51	53
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	-8	-7	-8	-7	-8	-7	-12
L. Mendocino Project Water + Import Water	28	29	30	32	34	36	42
L. Sonoma Project Water	82	82	83	73	83	82	78
Natural Flow	0	0	0	16	0	0	0
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	109	107	110	112	130	123	114
Net Reach Loss(-)/Gain(+)	-5	-8	-8	-7	+8	+2	-10
L. Mendocino Project Water + Import Water	24	25	27	23	31	33	34
L. Sonoma Project Water	82	82	83	73	83	82	78
Natural Flow	3	0	0	16	16	9	2
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-74	-69	-70	-68	-70	-71	-72
L. Mendocino Project Water + Import Water	24	25	27	23	31	33	34
L. Sonoma Project Water	14	21	21	12	6	9	17
Natural Flow	3	0	0	16	16	9	2
VIII. Water Production under Sonoma Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	135.1	120.7	123.1	121.0	153.5	144.5	121.3
Wohler	72.8	73.0	82.2	73.4	76.7	75.2	78.5
Mirabel	62.3	47.7	40.9	47.7	76.9	69.4	42.8
Town of Windsor River Wellfield	9.7	9.4	8.8	9.3	9.3	9.3	9.3
Camp Meeker & Occidental	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Upper Russian River							
City of Healdsburg							
Gauntlett & Fitch Mtn	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Creek							
City of Healdsburg							
Dry Creek Wellfield	2.7	2.7	2.7	2.6	2.7	2.7	2.7

Lake Mendocino and Lake Sonoma Water Accounting Weekly Schematic (Term 12 & 13 June 2021 TUCO)

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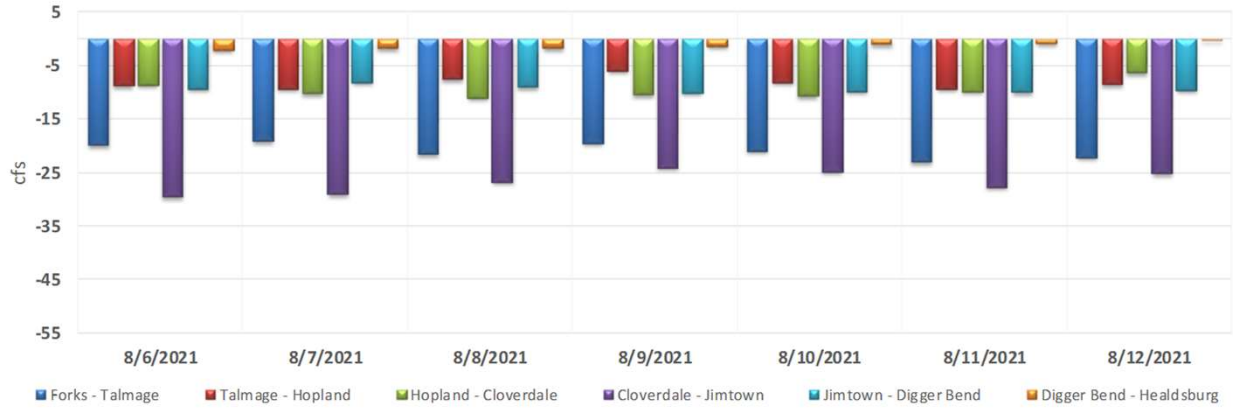
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
 Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



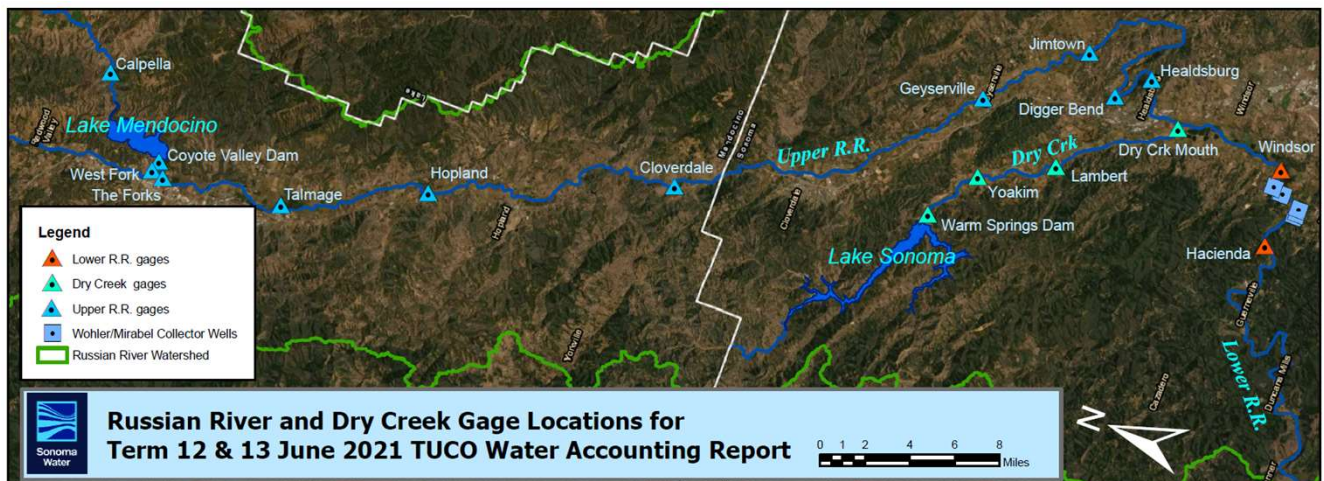
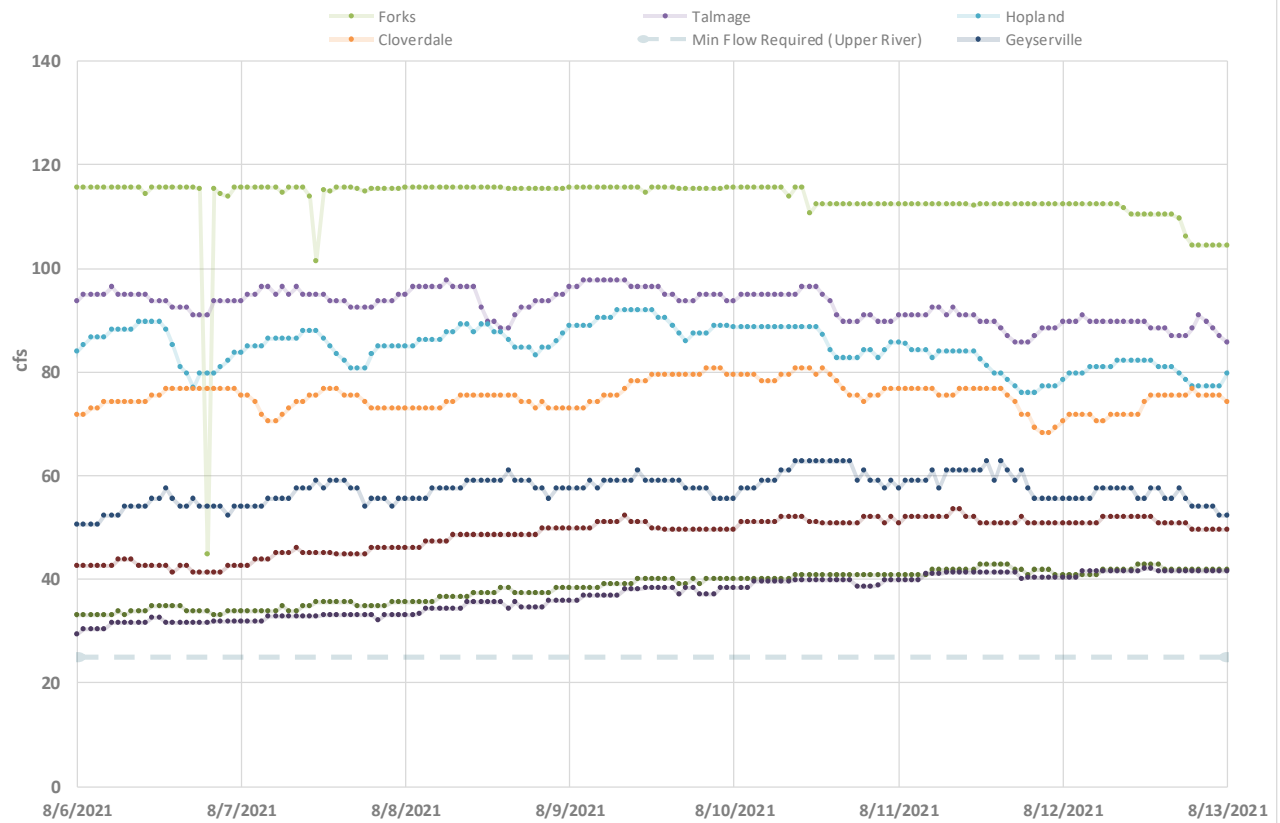
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS



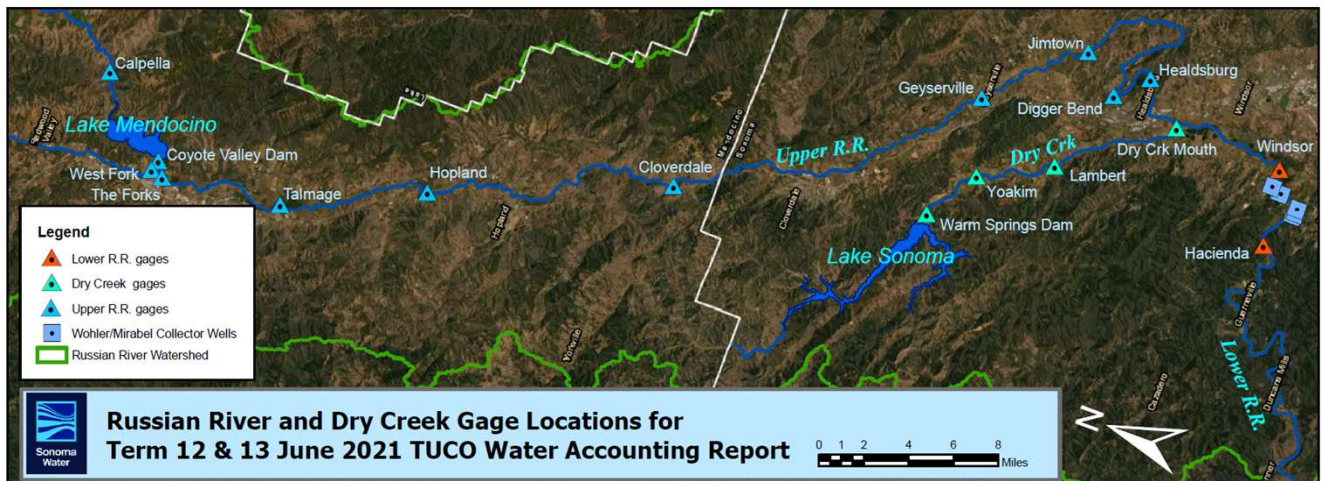
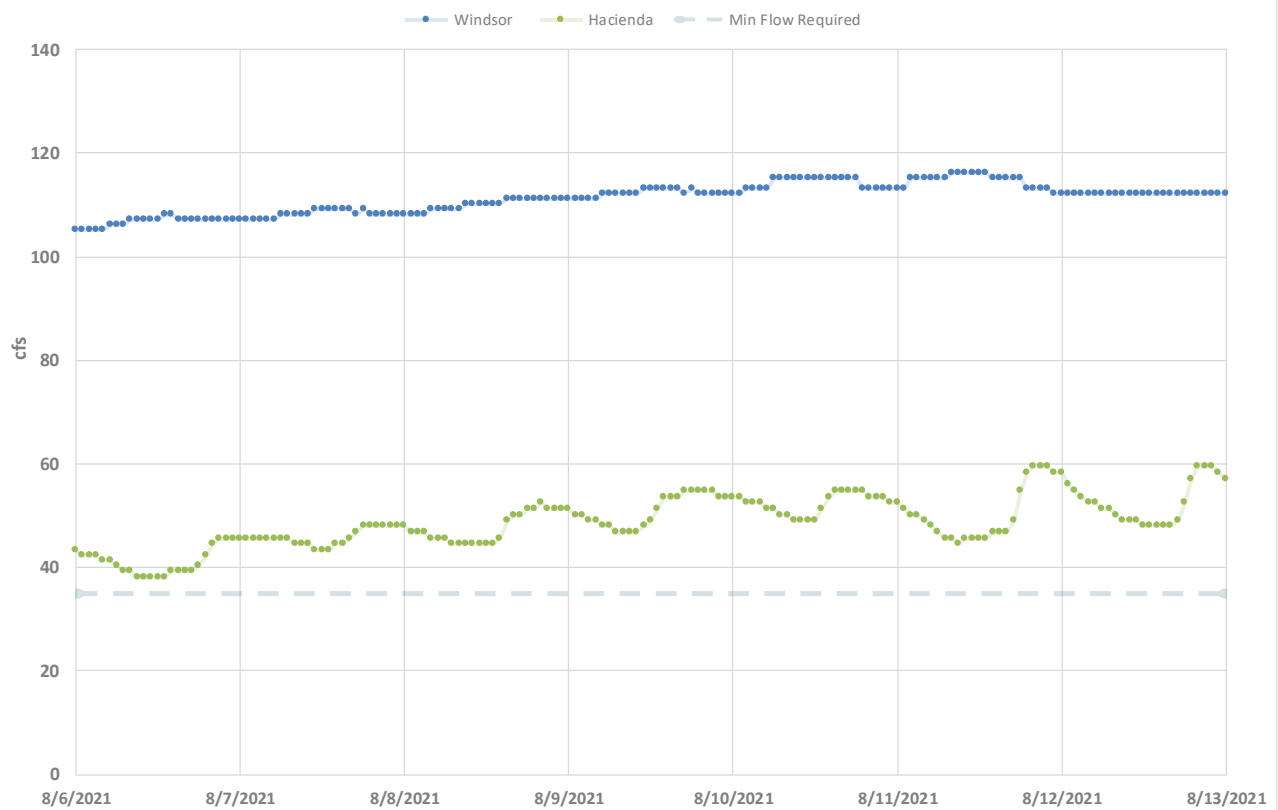
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



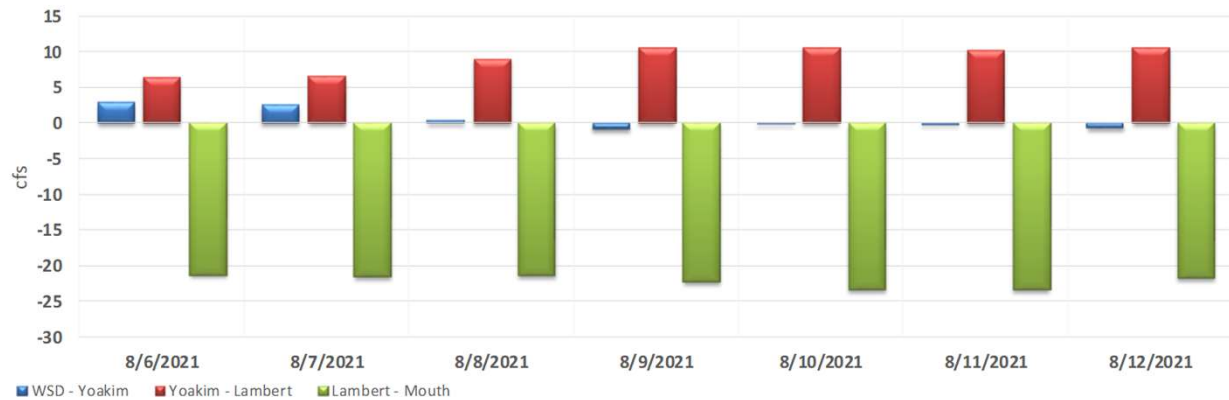
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

