

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

Report Date: 8/20/2021

Units are cfs unless noted otherwise

	8/13/2021	8/14/2021	8/15/2021	8/16/2021	8/17/2021	8/18/2021	8/19/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	31.0	31.0	35.0	35.0	35.0	35.0	32.0
PVID Requested Delivery	25.7	30.0	30.0	30.0	30.0	30.0	26.7
PVID Canals Actual Delivery	11.3	11.3	16.7	16.7	16.8	16.8	14.6
East Fork Release	19.7	19.7	18.3	18.3	18.3	18.2	17.4
PVID E Fork Diversions	14.4	18.7	13.3	13.3	13.3	13.2	12.1
PVID Water Use - PG&E Contract	25.7	30.0	30.0	30.0	30.0	30.0	26.7
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID	5.3	1.0	5.0	5.0	5.0	5.0	5.3
PVID Canal Net Return Flow (assumed)	4.2	10.7	4.5	6.2	6.5	6.4	4.1
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	9.5	11.7	9.5	11.2	11.5	11.4	9.4
Net Reach Loss(-)/Gain(+)	-21.5	-19.3	-25.5	-23.8	-23.5	-23.6	-22.6
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

Resrvoir Operations							
Calculated Inflow (ac-ft)	20.0	41.3	28.5	25.7	24.2	28.7	14.7
(cfs)	10	21	14	13	12	14	7
Natural Flow	0	0	0	0	0	0	0
Import	10	21	14	13	12	14	7
Storage Change (ac-ft)	-202.0	-183.0	-190.0	-189.0	-188.0	-178.0	-186.0
(cfs)	-102	-92	-96	-95	-95	-90	-94
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)	14.5	18.0	17.9	18.3	15.9	14.0	14.5
RVCWD Diversion (ac-ft) (est.)	0	0	0	0	0	0	0
CVD Release Gage	105	104	101	99	99	97	94
Storage (Project Water)	95	83	87	86	87	83	86
Natural Flow	0	0	0	0	0	0	0
Import Water	10	21	14	13	12	14	7
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage	<i>Rvr mi.</i>						
CVD Release	<i>99.9</i>	105	104	101	99	99	94
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	10	21	14	13	12	14	7
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	42	41	41	41	39	38	37
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
All Compliance Gages	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	<i>99.0</i>	105	104	101	99	99	94
Talmage (USGS 11462080)	<i>96.1</i>	86	84	81	80	80	79
Hopland (USGS 11462500)	<i>84.8</i>	78	75	74	71	68	70
Cloverdale (USGS 11463000)	<i>70.9</i>	75	74	72	71	68	70
Geyserville (USGS 11463500)	<i>54.4</i>	56	56	56	54	51	51
Jimtown (USGS 11463682)	<i>48.5</i>	50	49	50	49	45	44
Digger Bend (USGS 11463980)	<i>38.2</i>	42	41	41	42	40	38
Healdsburg (USGS 11464000)	<i>35.6</i>	42	41	41	41	39	37
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-19	-21	-22	-19	-19	-17	-15
Talmage - Hopland	-9	-10	-9	-8	-12	-10	-10
Hopland - Cloverdale	-5	-2	-2	-2	-2	+0	-2
Cloverdale - Jimtown	-23	-27	-25	-24	-26	-25	-25
Jimtown - Digger Bend	-8	-8	-8	-8	-7	-6	-5
Digger Bend - Healdsburg	-0	-0	-0	-1	-1	-1	-2
Upper Russian Net Reach Loss/Gain	-64	-68	-66	-62	-66	-59	-59
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-64	-68	-66	-62	-66	-59	-59
Storage (Project Water)	64	68	66	62	66	59	59
Pass-through Water (Natural + Import)	0	0	0	0	0	0	0
Total Pass-through Water	10	21	14	13	12	14	7
Project Water Release Required	Yes	No	Yes	Yes	Yes	Yes	Yes

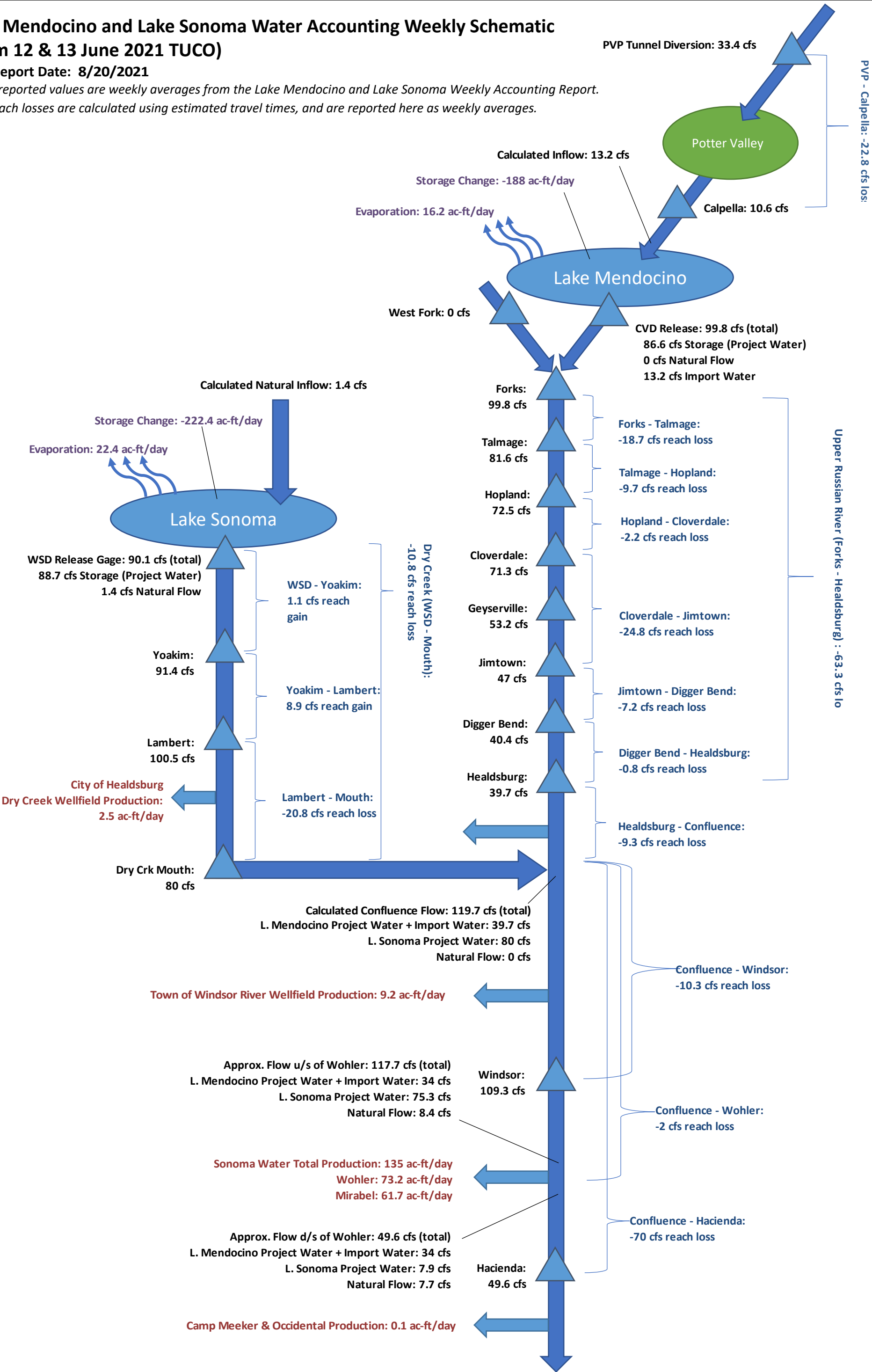
Notes:

- 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).

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IV. Lake Sonoma								
Lake Sonoma								
Storage Change (ac-ft)	-244.0	-228.0	-227.0	-195.0	-259.0	-210.0	-194.0	
(cfs)	-123	-115	-114	-98	-131	-106	-98	
Evaporation (ac-ft)	19.9	23.2	22.1	28.7	27.5	17.6	17.6	
Inflow (Natural Flow)	0	0	0	10	0	0	0	
WSD Release Gage	94	94	94	94	87	84	83	
Storage (Project Water)	94	94	94	84	87	84	83	
Natural Flow	0	0	0	10	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	83	83	85	84	81	74	72	
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	94	94	94	94	87	84	83
Yoakim (USGS 11465200)	11.1	94	94	95	95	92	85	85
Lambert (USGS 11465240)	6.8	105	104	105	105	100	93	92
Dry Crk Mouth (USGS 11465350)	0.1	83	83	85	84	81	74	72
WSD to Russian River Confluence Reach Analysis								
Total Pass-through Water	0	0	0	10	0	0	0	
Net Reach Loss(-)/Gain(+)								
WSD - Yoakim	-0	-0	+1	+1	+3	+1	+1	
Yoakim - Lambert	+10	+10	+11	+10	+7	+7	+7	
Lambert - Dry Crk Mouth	-22	-22	-21	-21	-21	-19	-20	
WSD - Dry Crk Mouth	-11	-11	-9	-10	-11	-10	-12	
WSD Project Water Release to Meet Min Flow Requirement								
Net Reach Loss/Gain to Controlling Gage	-11	-11	-9	-0	-11	-10	-12	
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VI. Russian River - Dry Creek Confluence								
Upper Russian River Flow (Healdsburg Gage)								
L. Mendocino Project Water + Import Water	42	41	41	41	39	38	37	
Natural Flow	0	0	0	0	0	0	0	
Dry Creek Flow (Mouth Gage)								
L. Sonoma Project Water	83	83	85	84	81	74	72	
Natural Flow	0	0	0	0	0	0	0	
Russian River d/s of Confluence Flow	124	124	125	125	120	111	109	
L. Mendocino Project Water + Import Water	42	41	41	41	39	38	37	
L. Sonoma Project Water	83	83	85	84	81	74	72	
Natural Flow	0	0	0	0	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	52	51	52	53	47	46	45	
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	
All Compliance Gages	Rvr mi.							
Windsor (USGS 11465390)	26.6	113	112	112	110	105	103	
Hacienda (USGS 11467000)	21.8	52	51	52	53	47	45	
Confluence to Windsor Reach Analysis								
Net Reach Loss/Gain to Windsor Gage	-12	-12	-13	-13	-10	-7	-6	
L. Mendocino Project Water + Import Water	42	41	41	41	39	38	37	
L. Sonoma Project Water	78	78	80	80	76	69	67	
Natural Flow	0	0	0	0	0	0	0	
Confluence to SCWA Wohler Production Facility Reach Analysis								
Approx. Flow u/s of Wohler	127	120	112	124	128	107	105	
Net Reach Loss(-)/Gain(+)	+3	-3	-13	-1	+8	-5	-4	
L. Mendocino Project Water + Import Water	35	34	32	33	34	36	35	
L. Sonoma Project Water	78	78	80	80	76	69	67	
Natural Flow	15	9	1	12	18	2	2	
Confluence to Hacienda (Guerneville) Reach Analysis								
Net Reach Loss(-)/Gain(+)	-72	-72	-73	-72	-73	-65	-63	
L. Mendocino Project Water + Import Water	35	34	32	33	34	36	35	
L. Sonoma Project Water	2	9	19	9	0	9	8	
Natural Flow	15	9	1	12	14	2	2	
VIII. Water Production under Sonoma Water Water Rights (ac-ft)								
Lower Russian River								
Sonoma Water Total	149.0	137.0	119.9	140.8	160.1	119.7	118.5	
Wohler	73.9	74.4	74.5	71.0	73.4	74.3	71.2	
Mirabel	75.1	62.6	45.5	69.7	86.7	45.4	47.3	
Town of Windsor River Wellfield	9.8	8.9	9.3	8.1	9.5	9.7	9.2	
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	2.0	2.6	2.6	2.6	2.6	2.5	2.6	
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
(Term 12 & 13 June 2021 TUCO)

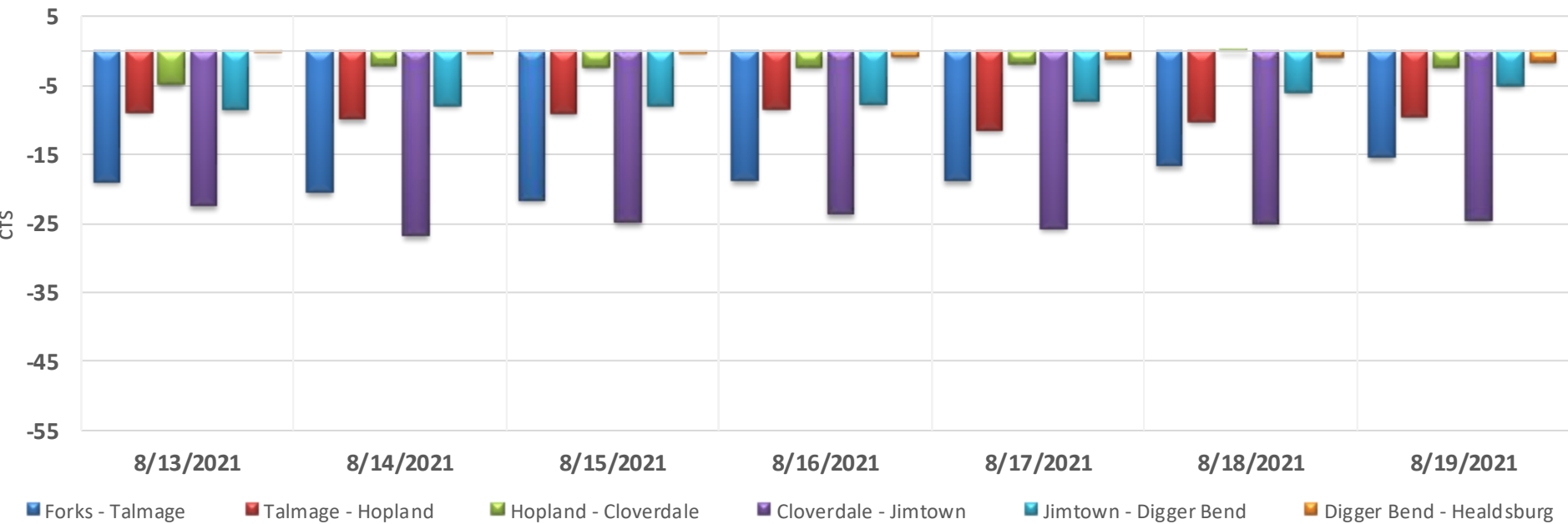
Report Date: 8/20/2021
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



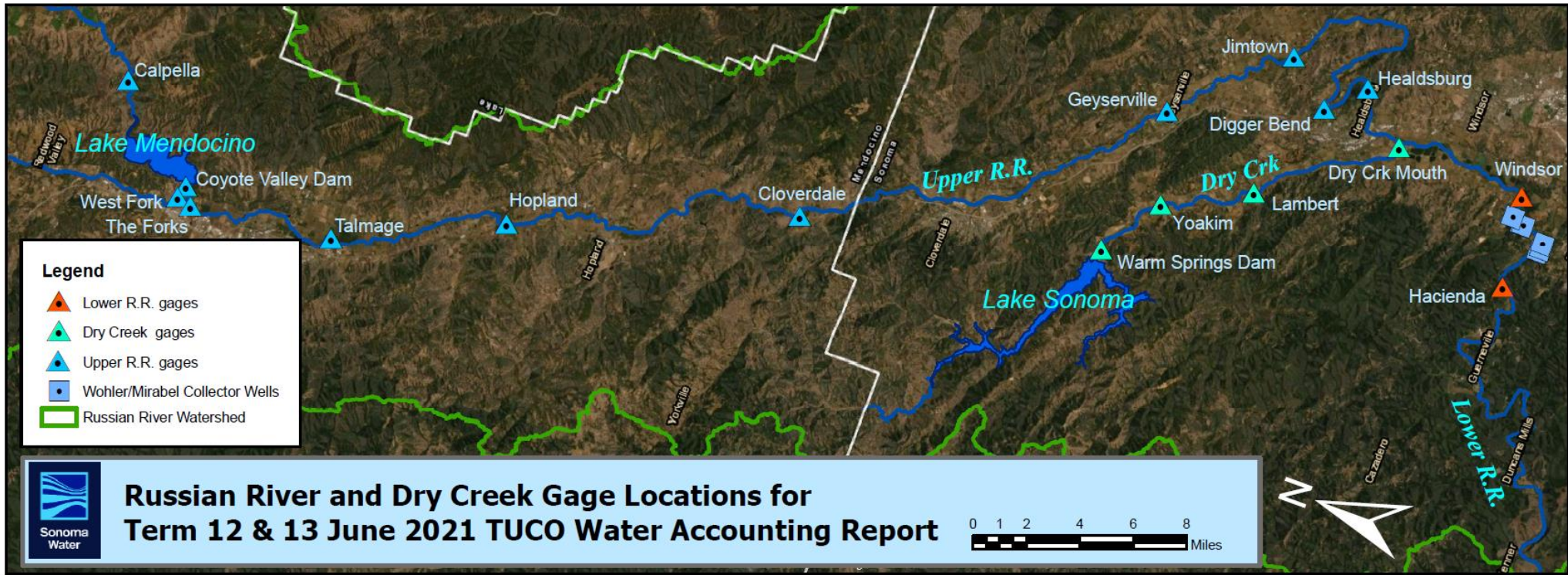
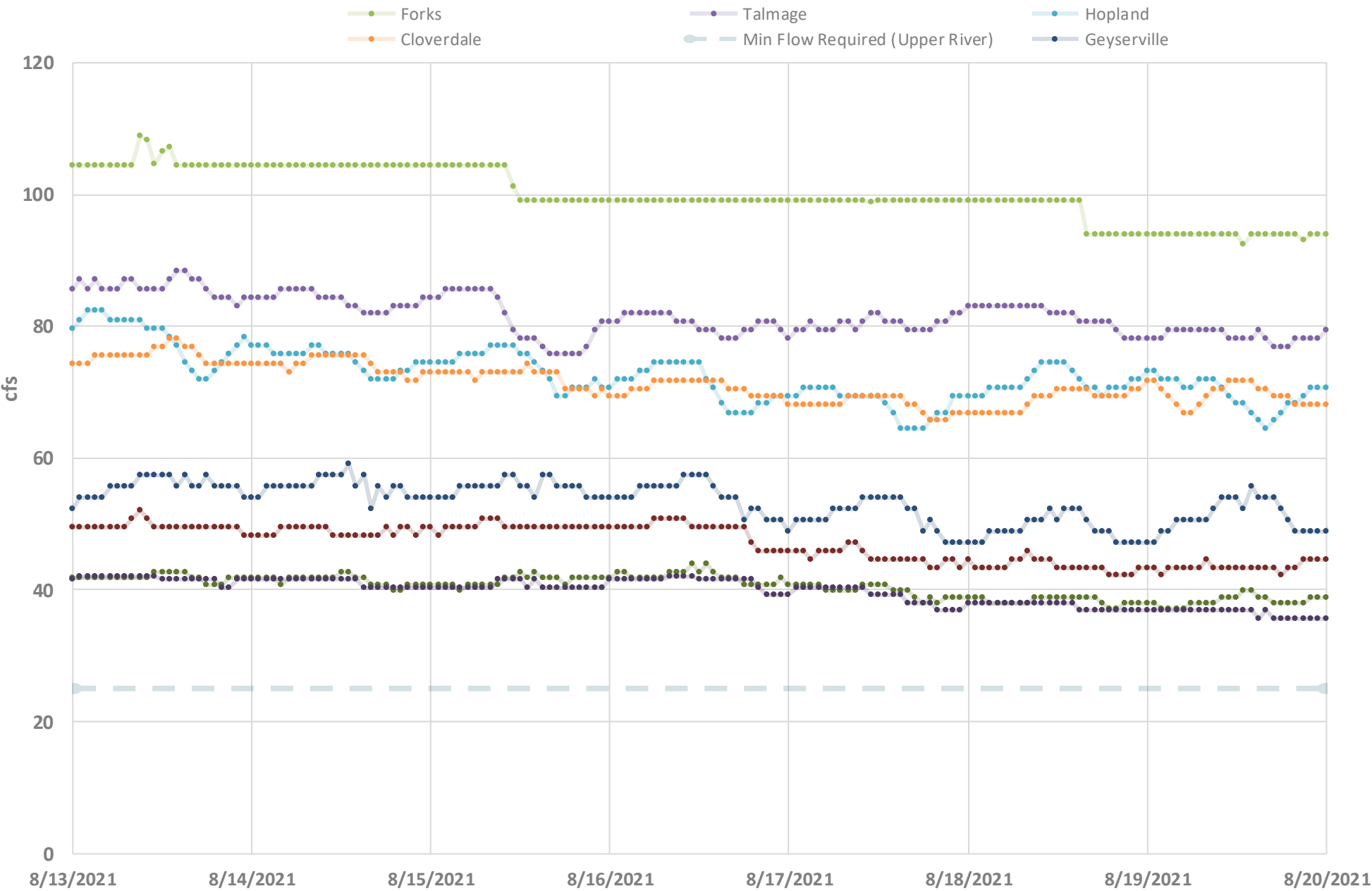
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



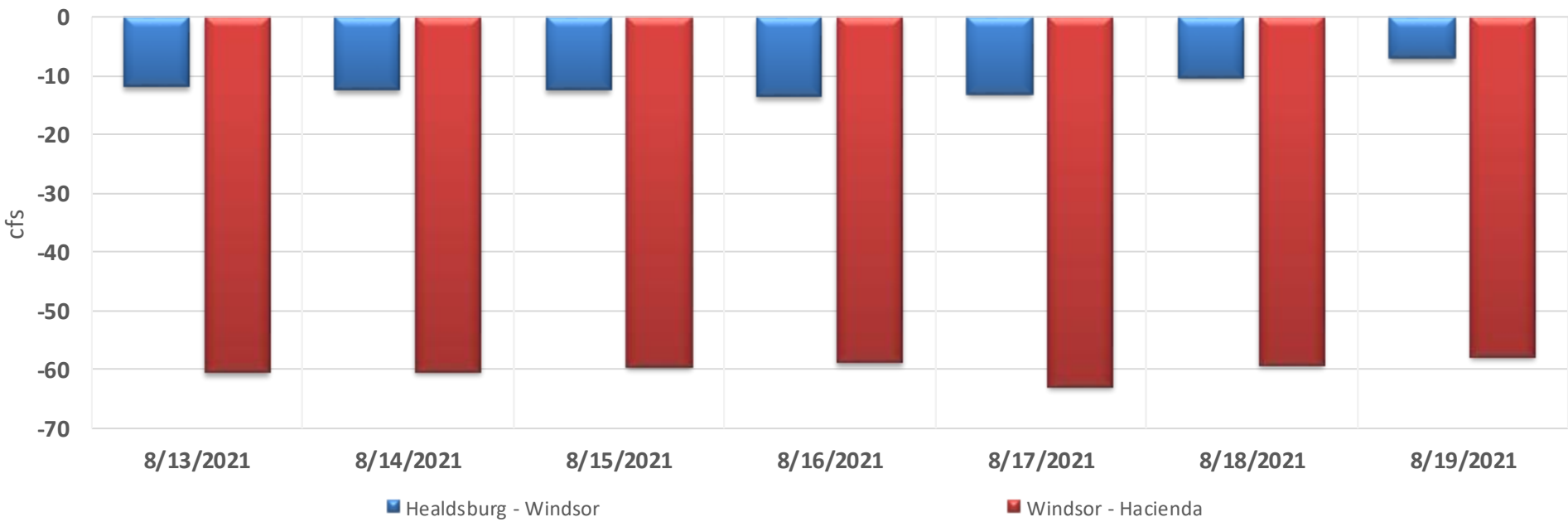
UPPER RUSSIAN RIVER STREAM FLOWS



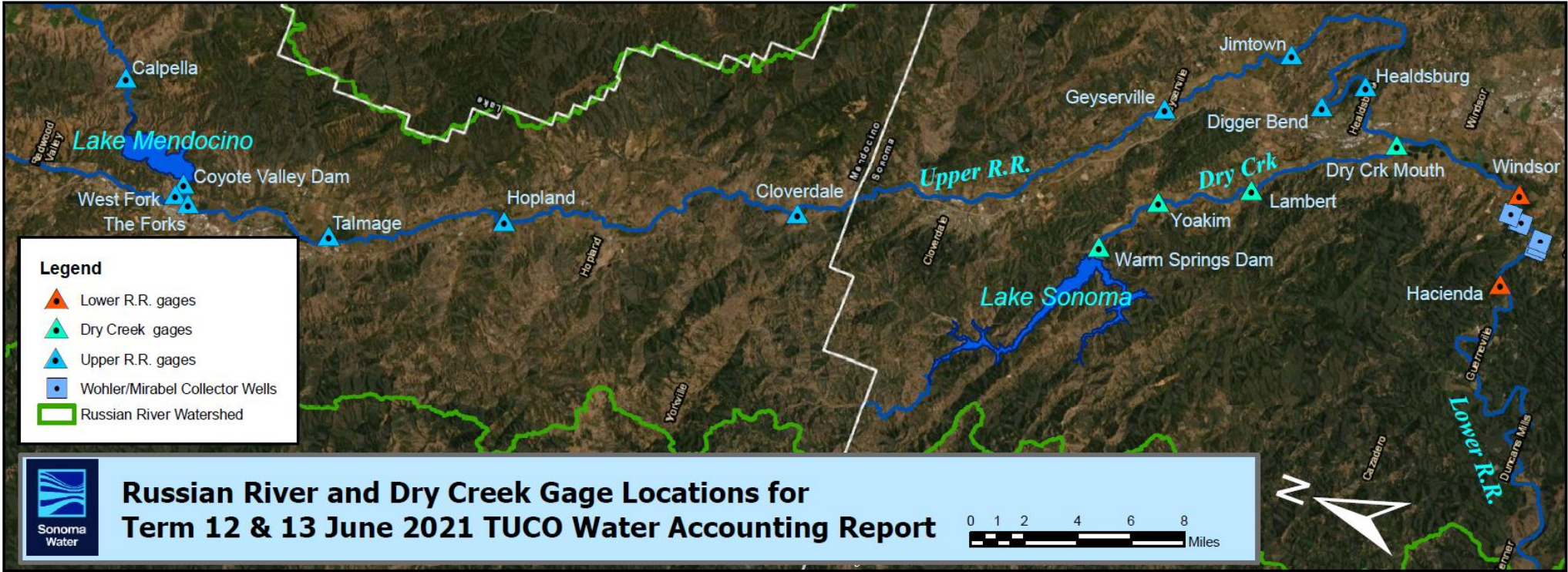
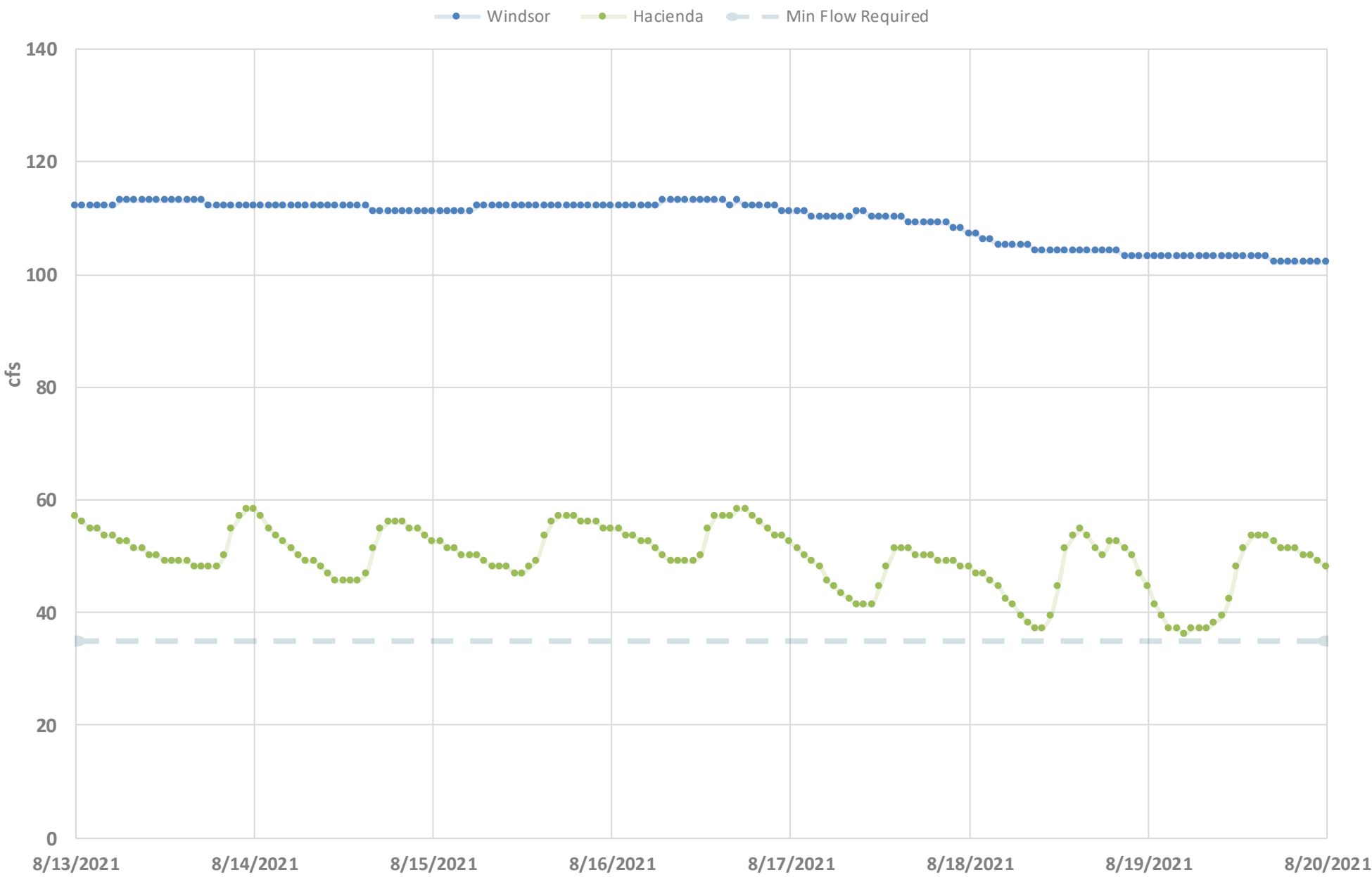
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



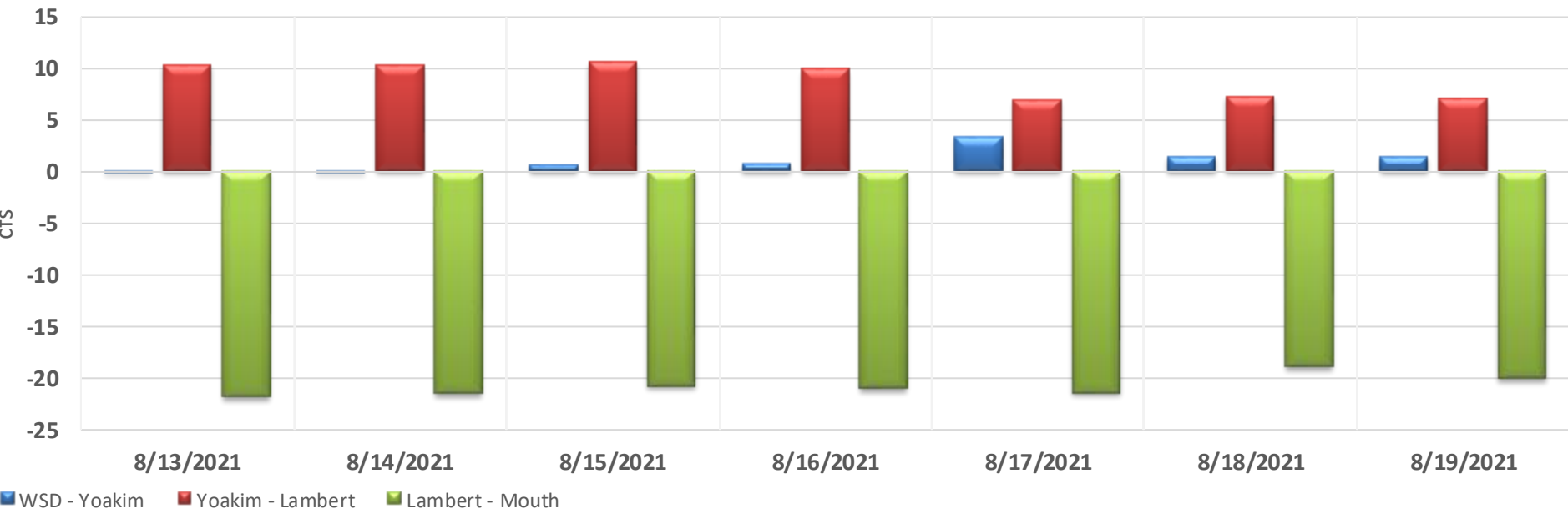
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

