

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

Report Date: 8/6/2021

Units are cfs unless noted otherwise

	<u>7/30/2021</u>	<u>7/31/2021</u>	<u>8/1/2021</u>	<u>8/2/2021</u>	<u>8/3/2021</u>	<u>8/4/2021</u>	<u>8/5/2021</u>	
I. Upper East Fork Reach								
Potter Valley Project								
Tunnel Diversion	29.0	29.0	30.0	36.0	36.0	36.0	36.0	
PVID Requested Delivery	25.0	25.0	25.8	30.0	30.0	30.0	30.0	
PVID Canals Actual Delivery	10.4	10.4	10.5	10.8	10.8	10.8	10.8	
East Fork Release	18.6	18.6	19.5	25.2	25.2	25.2	25.2	
PVID E Fork Diversions	14.6	14.6	15.3	19.2	19.2	19.2	19.2	
PVID Water Use - PG&E Contract	25.0	25.0	25.8	30.0	30.0	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	4.0	4.0	4.2	6.0	6.0	6.0	6.0	
PVID Canal Net Return Flow (assumed)	4.8	4.2	4.1	5.3	7.0	7.4	4.8	
East Fork / Potter Valley Reach Analysis								
USGS E Fork @ Calpella	8.8	8.2	8.4	11.3	13.0	13.4	10.8	
Net Reach Loss(-)/Gain(+)	-20.2	-20.8	-21.6	-24.7	-23.0	-22.6	-25.2	
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)	11.8	24.0	27.6	14.1	38.6	30.0	30.3	
(cfs)	6	12	14	7	19	15	15	
Natural Flow	0	0	0	0	0	0	0	
Import	6	12	14	7	19	15	15	
Storage Change (ac-ft)	-218.0	-226.0	-225.0	-232.0	-210.0	-219.0	-216.0	
(cfs)	-110	-114	-113	-117	-106	-110	-109	
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)	21.5	20.7	22.2	18.0	20.5	21.0	18.2	
RVCWD Diversion (ac-ft) (est.)	0	0	0	0	0	0	0	
CVD Release Gage	105	116	116	115	115	115	115	
Storage (Project Water)	99	103	102	108	96	100	100	
Natural Flow	0	0	0	0	0	0	0	
Import Water	6	12	14	7	19	15	15	
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25	
Compliance Gage		<i>Rvr mi.</i>						
CVD Release		99.9	105	116	116	115	115	115
CVD Project Water Release to Meet Min Flow Requirement								
Total Pass-through Water	6	12	14	7	19	15	15	
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
III. Upper Russian River Reach								
Minimum Instream Flow Requirement	15	15	15	15	15	15	15	
Controlling Compliance Gage								
Min Gage Flow	21	21	21	25	26	26	25	
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	
All Compliance Gages								
		<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	105	116	116	115	115	115	
Talmage (USGS 11462080)	96.1	85	90	90	90	91	92	
Hopland (USGS 11462500)	84.8	80	84	87	86	84	87	
Cloverdale (USGS 11463000)	70.9	64	67	72	72	69	71	
Geyserville (USGS 11463500)	54.4	41	44	49	52	51	49	
Jimtown (USGS 11463682)	48.5	36	37	41	44	44	43	
Digger Bend (USGS 11463980)	38.2	27	27	29	33	34	33	
Healdsburg (USGS 11464000)	35.6	21	21	21	25	26	25	
Net Reach Loss(-)/Gain(+)								
Forks - Talmage	-23	-23	-28	-26	-25	-24	-24	
Talmage - Hopland	-4	-3	-3	-3	-6	-5	-4	
Hopland - Cloverdale	-12	-14	-14	-15	-16	-12	-16	
Cloverdale - Jimtown	-28	-26	-26	-27	-28	-27	-26	
Jimtown - Digger Bend	-9	-9	-9	-9	-10	-10	-11	
Digger Bend - Healdsburg	-6	-6	-7	-8	-8	-8	-8	
Upper Russian Net Reach Loss/Gain	-82	-80	-87	-87	-92	-85	-88	
CVD Project Water Release to Meet Min Flow Requirement								
Net Reach Loss(-)/Gain(+) to Controlling Gage	-82	-80	-87	-87	-92	-85	-88	
Storage (Project Water)	82	80	87	87	92	85	88	
Pass-through Water (Natural + Import)	0	0	0	0	0	0	0	
Total Pass-through Water	6	12	14	7	19	15	15	
Project Water Release Required	Yes	Yes	Yes	Yes	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).

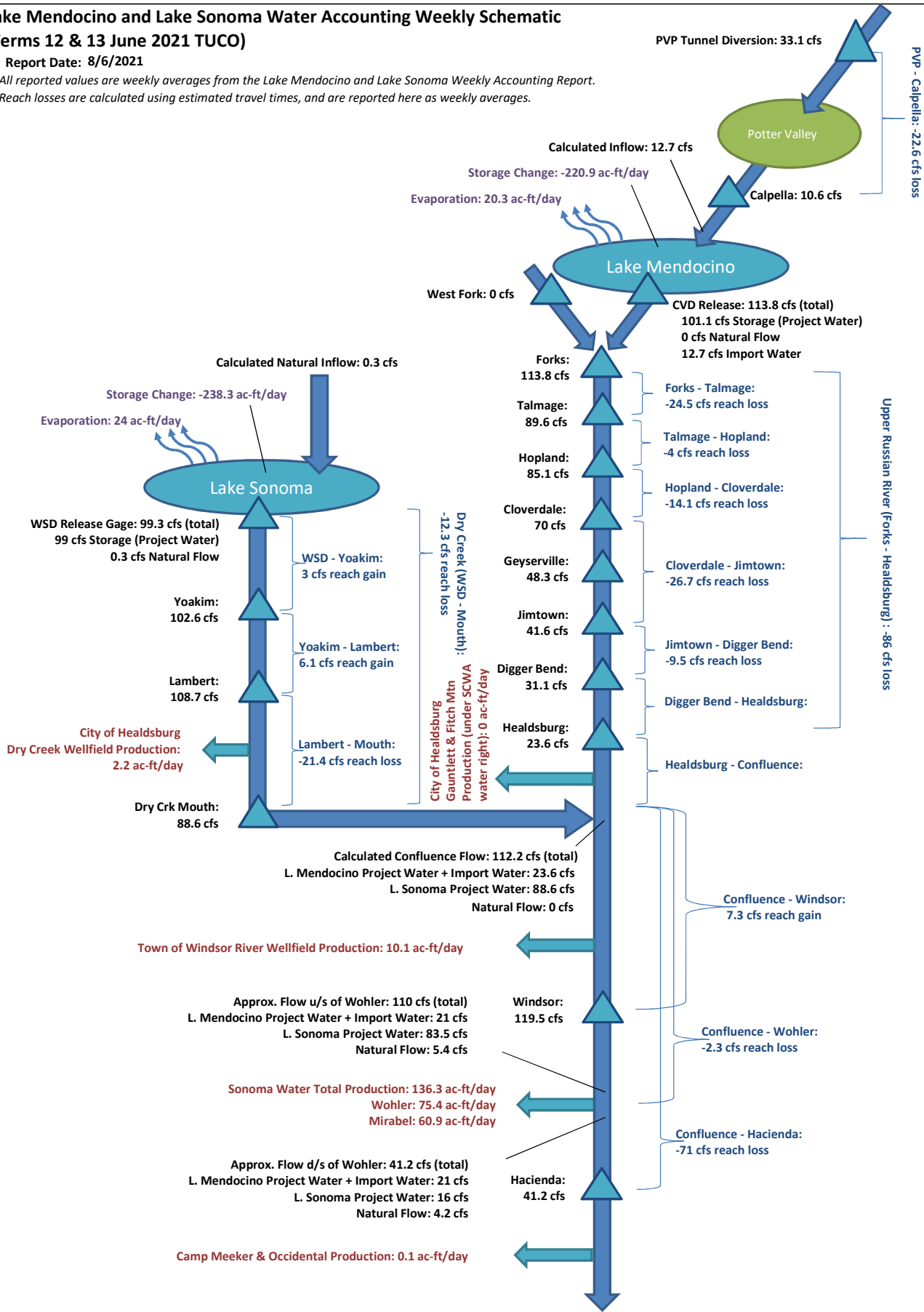
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IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-249.0	-232.0	-248.0	-231.0	-247.0	-247.0	-214.0
(cfs)	-126	-117	-125	-116	-125	-125	-108
Evaporation (ac-ft)	23.0	21.9	24.7	23.6	25.8	25.7	23.5
Inflow (Natural Flow)	0	0	0	0	0	0	2
WSD Release Gage	101	100	99	99	99	99	98
Storage (Project Water)	101	100	99	99	99	99	96
Natural Flow	0	0	0	0	0	0	2
V. Lower Dry Creek Reach							
Minimum Instream Flow Requirement	25	25	25	25	25	25	25
Controlling Compliance Gage							
Min Gage Flow	87	88	89	89	90	89	88
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							
	<i>Crk mi.</i>						
WSD Release	14.3	101	100	99	99	99	98
Yoakim (USGS 11465200)	11.1	103	103	104	103	102	102
Lambert (USGS 11465240)	6.8	108	109	110	109	108	109
Dry Crk Mouth (USGS 11465350)	0.1	87	88	89	89	90	88
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	0	0	0	0	0	0	2
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+1	+3	+5	+4	+3	+2	+3
Yoakim - Lambert	+6	+6	+6	+6	+6	+7	+7
Lambert - Dry Crk Mouth	-23	-23	-22	-22	-20	-18	-20
WSD - Dry Crk Mouth	-16	-14	-12	-13	-12	-9	-11
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	-16	-14	-12	-13	-12	-9	-8
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	21	21	21	25	26	26	25
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	87	88	89	89	90	89	88
Natural Flow	0	0	0	0	0	0	0
Russian River d/s of Confluence Flow							
L. Mendocino Project Water + Import Water	108	109	111	114	116	115	113
L. Sonoma Project Water	21	21	21	25	26	26	25
Natural Flow	87	88	89	89	90	89	88
	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	37	38	39	42	44	46	42
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	115	117	119	120	122	122
Hacienda (USGS 11467000)	21.8	37	38	39	42	44	42
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	+7	+8	+8	+6	+6	+7	+9
L. Mendocino Project Water + Import Water	21	21	21	25	26	26	25
L. Sonoma Project Water	82	83	84	84	85	84	83
Natural Flow	12	13	13	12	11	12	14
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	112	100	108	104	105	108	134
Net Reach Loss(-)/Gain(+)	+4	-9	-2	-10	-11	-8	+21
L. Mendocino Project Water + Import Water	21	17	21	20	20	23	25
L. Sonoma Project Water	82	83	84	84	85	84	83
Natural Flow	9	0	3	0	0	0	26
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-72	-71	-72	-71	-72	-69	-71
L. Mendocino Project Water + Import Water	21	17	21	20	20	23	25
L. Sonoma Project Water	6	21	15	23	24	23	0
Natural Flow	9	0	3	0	0	0	17
VIII. Water Production under Sonoma Water Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	149.4	122.1	137.5	121.5	120.6	121.9	181.2
Wohler	75.4	78.4	72.1	74.8	75.8	78.4	73.1
Mirabel	74.1	43.7	65.4	46.8	44.8	43.5	108.1
Town of Windsor River Wellfield	10.7	10.5	10.2	10.0	9.4	10.0	10.0
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	2.5	2.0	2.5	2.2	1.9	1.9	2.5

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 (Terms 12 & 13 June 2021 TUCO)

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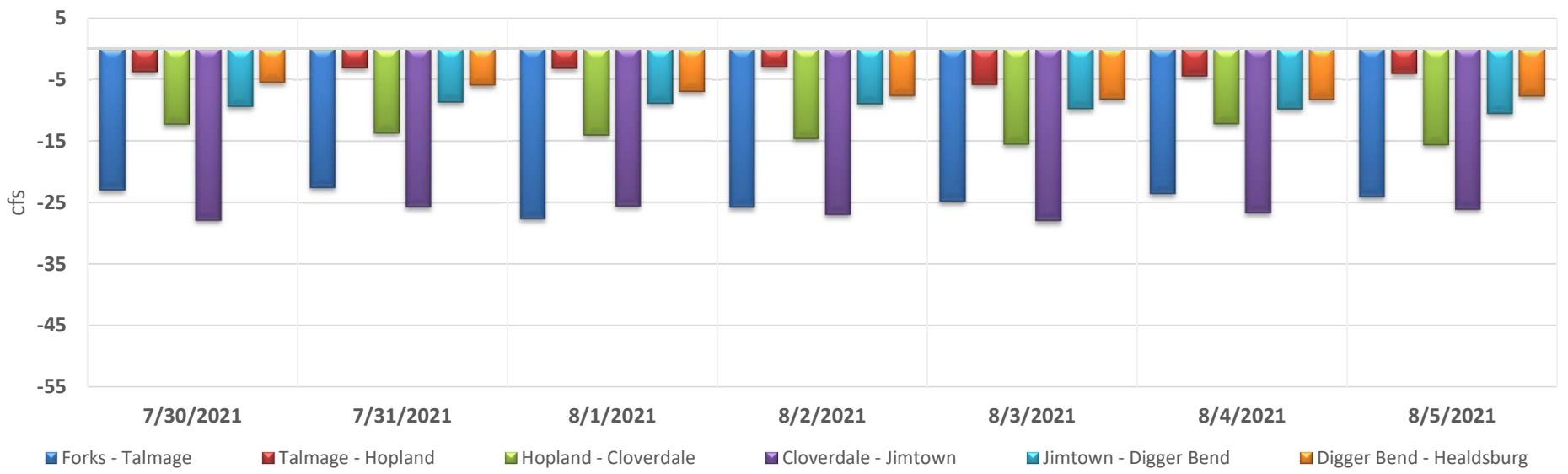
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



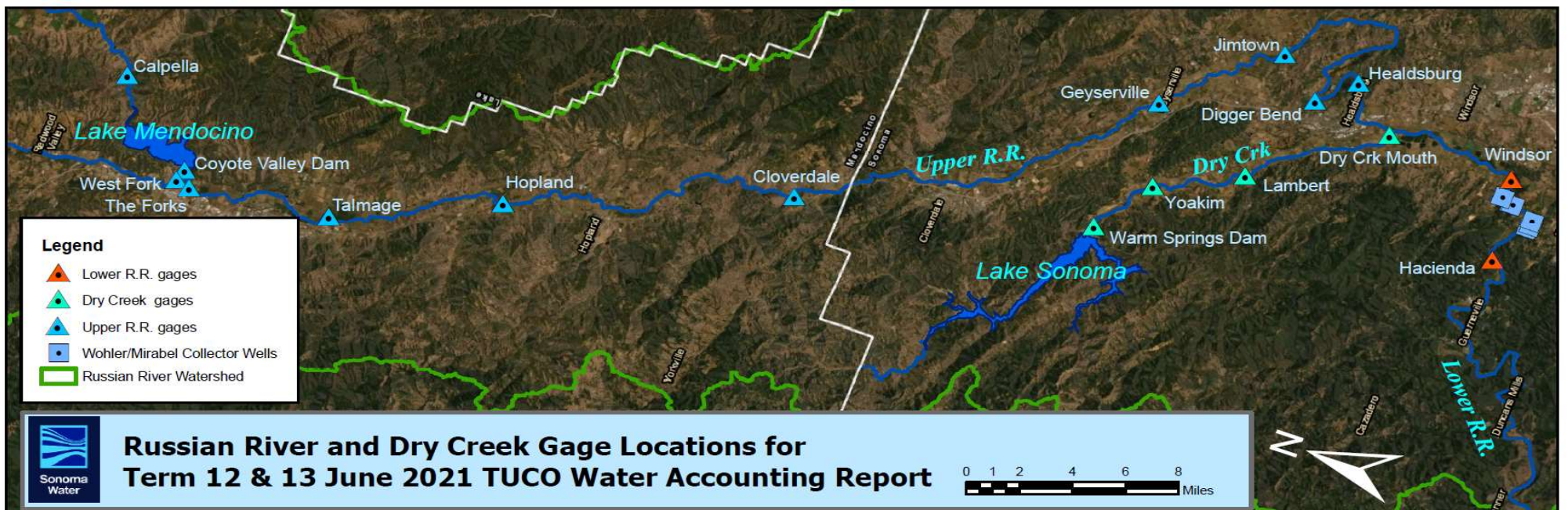
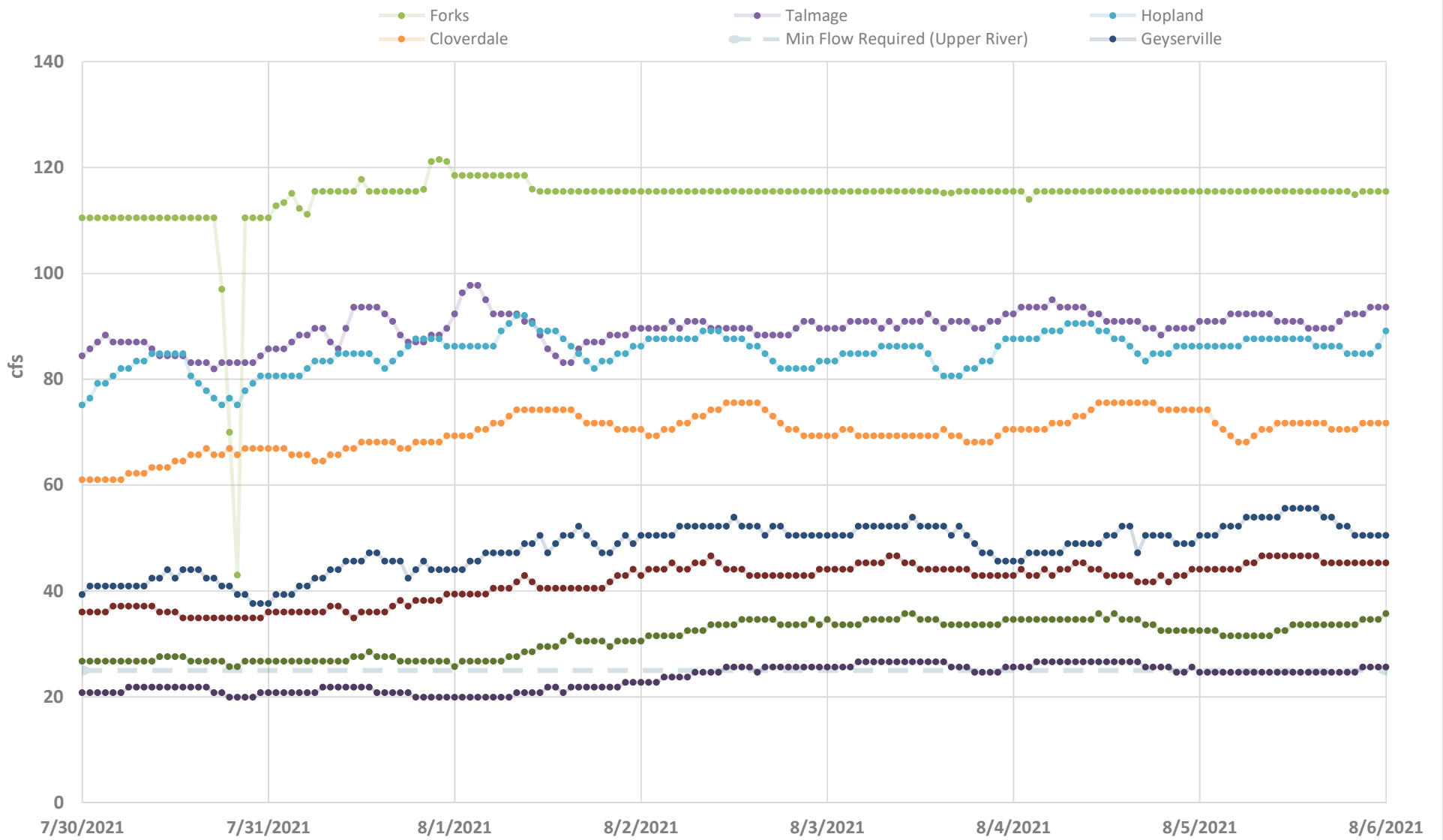
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



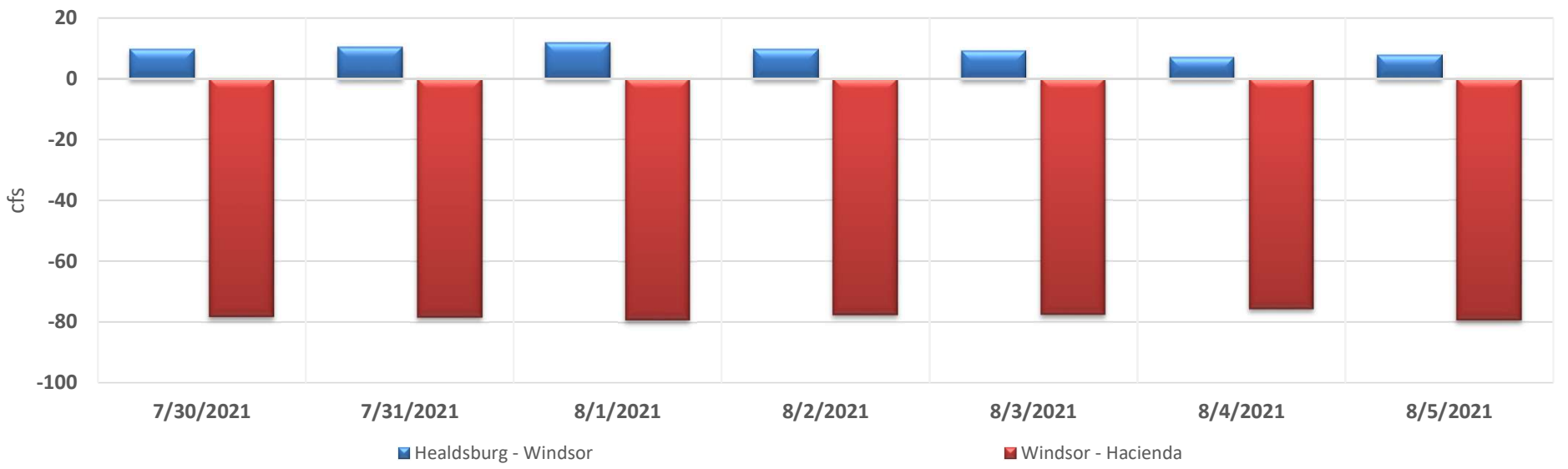
UPPER RUSSIAN RIVER STREAM FLOWS



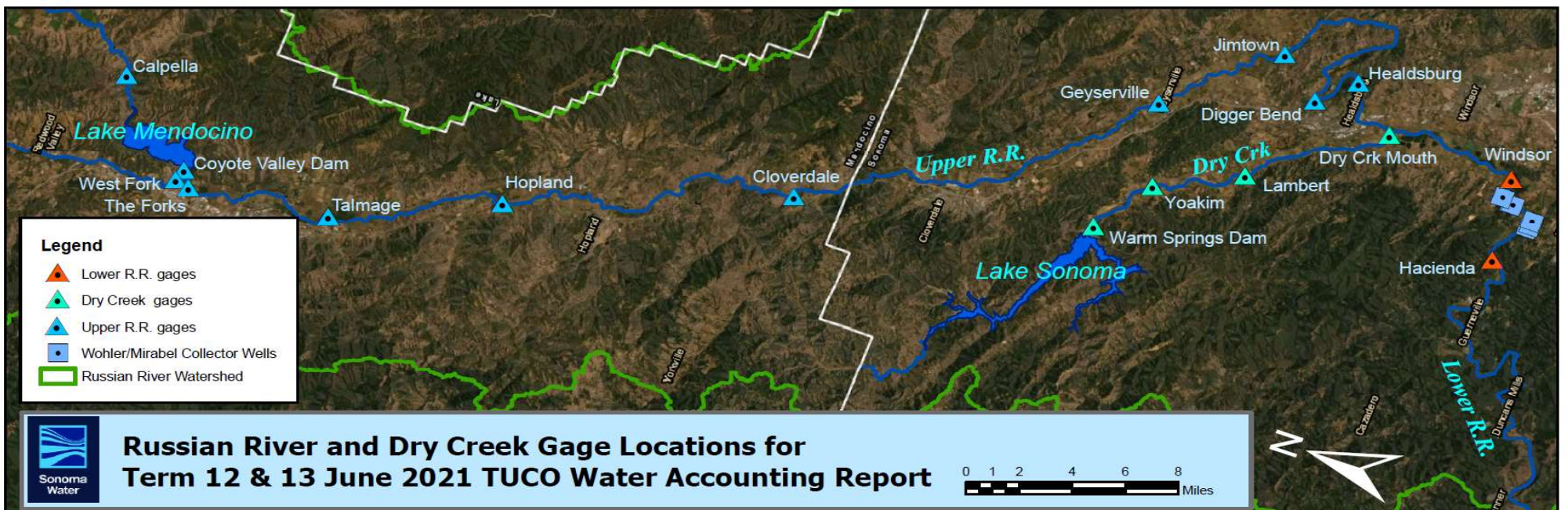
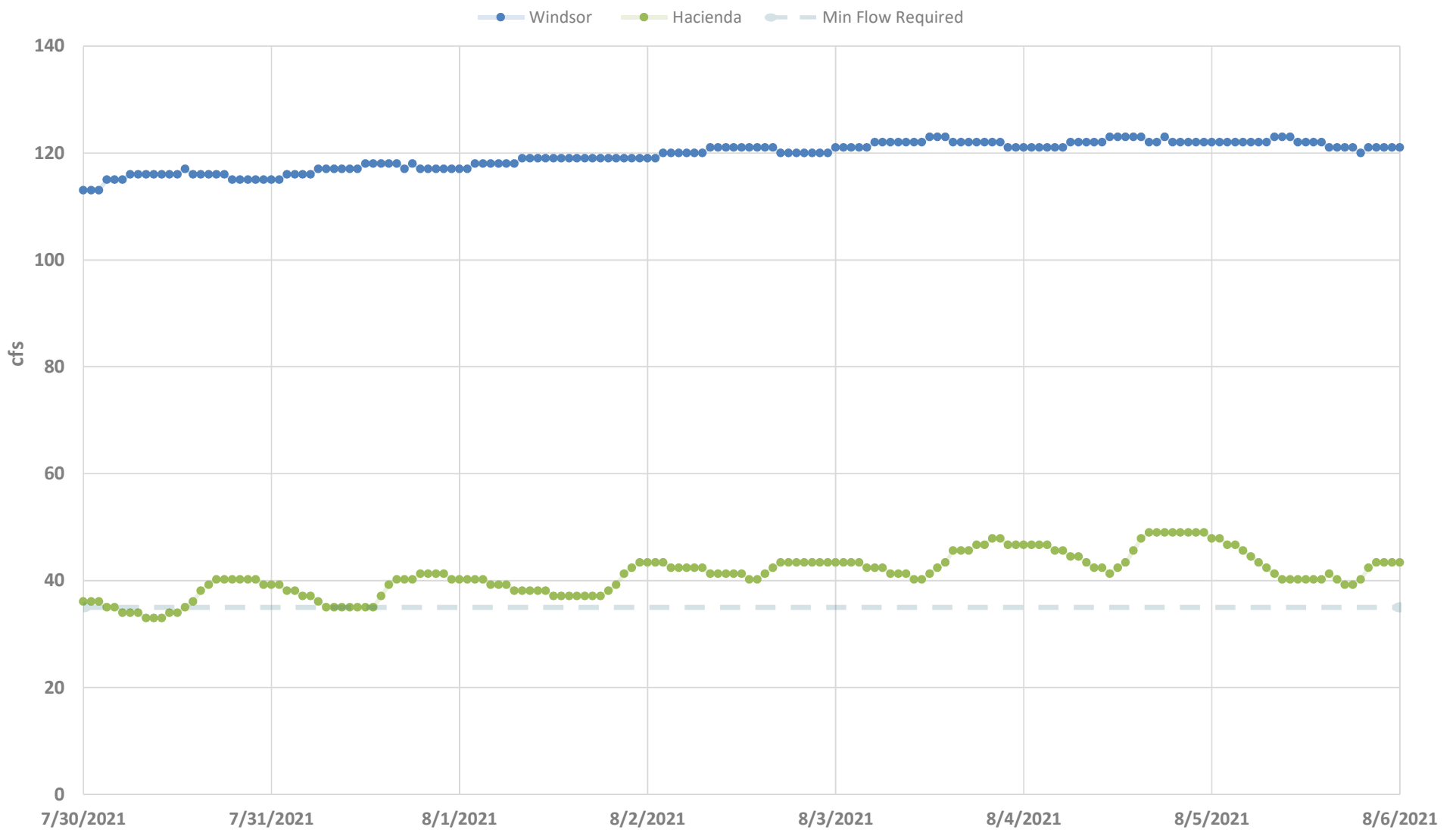
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



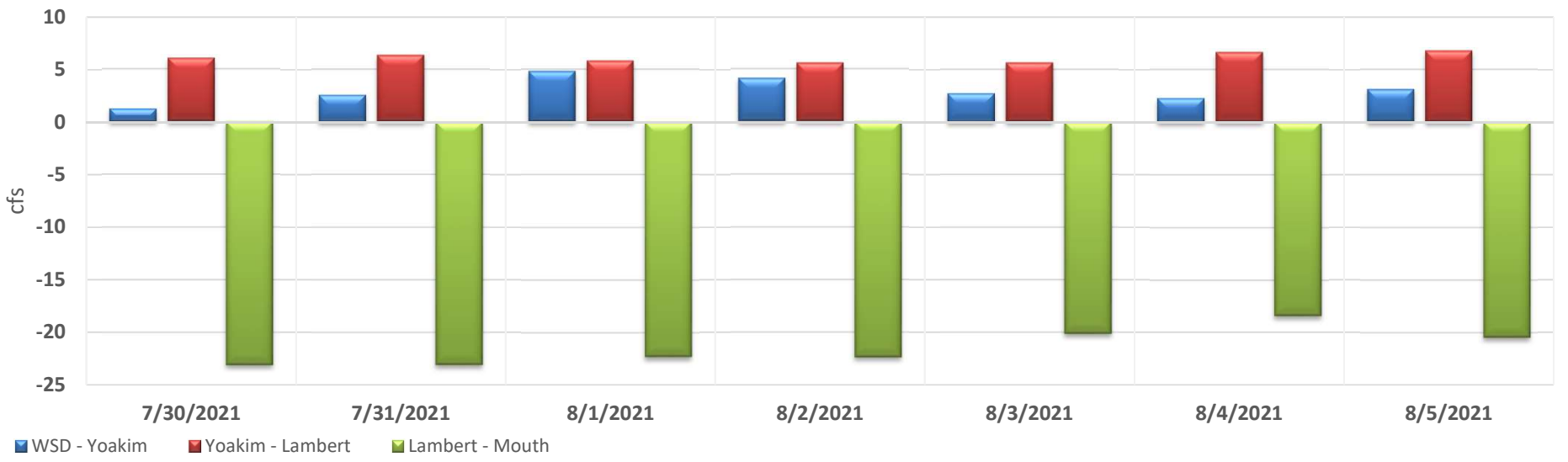
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

