

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

Report Date: 9/3/2021

Units are cfs unless noted otherwise

	8/27/2021	8/28/2021	8/29/2021	8/30/2021	8/31/2021	9/1/2021	9/2/2021
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PVID Requested Delivery	25.0	25.0	25.0	25.0	25.0	25.0	25.0
PVID Canals Actual Delivery	12.5	12.5	12.5	12.5	12.5	12.5	12.4
East Fork Release	17.6	17.5	17.6	17.5	17.5	17.5	17.6
PVID E Fork Diversions	12.6	12.5	12.6	12.5	12.5	12.5	12.6
PVID Water Use - PG&E Contract	25.0	25.0	25.0	25.0	25.0	25.0	25.0
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PVID Canal Net Return Flow (assumed)	5.0	4.7	4.4	3.8	4.7	4.9	4.3
East Fork / Potter Valley Reach Analysis							
USGS E Fork @ Calpella	10.0	9.7	9.4	8.8	9.7	9.9	9.3
Net Reach Loss(-)/Gain(+)	-20.0	-20.3	-20.6	-21.2	-20.3	-20.1	-20.7
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)	27.4	41.6	32.9	26.5	5.7	10.8	35.2
(cfs)	14	21	17	13	3	5	18
Natural Flow	0	0	0	0	0	0	0
Import	14	21	17	13	3	5	18
Storage Change (ac-ft)	-137.0	-136.0	-144.0	-151.0	-157.0	-165.0	-140.0
(cfs)	-69	-69	-73	-76	-79	-83	-71
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)	15.0	14.9	14.3	15.3	15.2	13.1	12.5
RVCWD Diversion (ac-ft) (est.)	0	0	0	0	0	0	0
CVD Release Gage	82	82	82	82	82	82	82
Storage (Project Water)	68	61	65	68	79	77	64
Natural Flow	0	0	0	0	0	0	0
Import Water	14	21	17	13	3	5	18
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release	82	99.9	82	82	82	82	82
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	14	21	17	13	3	5	18
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	36	32	30	29	28	28	29
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg

All Compliance Gages

	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	82	82	82	82	82	82
Talmage (USGS 11462080)	96.1	65	66	65	67	69	69
Hopland (USGS 11462500)	84.8	58	57	55	57	56	57
Cloverdale (USGS 11463000)	70.9	56	57	56	57	56	60
Geyserville (USGS 11463500)	54.4	43	40	41	40	39	41
Jimtown (USGS 11463682)	48.5	40	36	35	36	35	36
Digger Bend (USGS 11463980)	38.2	38	35	33	33	32	32
Healdsburg (USGS 11464000)	35.6	36	32	30	29	28	29

Net Reach Loss(-)/Gain(+)

Forks - Talmage	-14	-12	-17	-14	-6	-12	-13
Talmage - Hopland	-7	-8	-10	-9	-12	-11	-12
Hopland - Cloverdale	-2	-1	+0	+1	-0	+2	+2
Cloverdale - Jimtown	-22	-20	-21	-21	-21	-21	-21
Jimtown - Digger Bend	-4	-3	-2	-3	-3	-3	-4
Digger Bend - Healdsburg	-3	-3	-4	-4	-4	-4	-3
Upper Russian Net Reach Loss/Gain	-52	-48	-54	-50	-46	-49	-51

CVD Project Water Release to Meet Min Flow Requirement

Net Reach Loss(-)/Gain(+) to Controlling Gage	-52	-48	-54	-50	-46	-49	-51
Storage (Project Water)	52	48	54	50	46	49	51
Pass-through Water (Natural + Import)	0	0	0	0	0	0	0
Total Pass-through Water	14	21	17	13	3	5	18
Project Water Release Required	Yes	Yes	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).

	8/27/2021	8/28/2021	8/29/2021	8/30/2021	8/31/2021	9/1/2021	9/2/2021
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-208.0	-208.0	-192.0	-207.0	-207.0	-191.0	-223.0
(cfs)	-105	-105	-97	-104	-104	-96	-112
Evaporation (ac-ft)	19.6	19.6	16.3	18.4	16.2	10.3	13.7
Inflow (Natural Flow)	0	0	0	0	0	0	0
WSD Release Gage	83	83	83	83	83	87	92
Storage (Project Water)	83	83	83	83	83	87	92
Natural Flow	0	0	0	0	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	70	70	71	71	71	72	79
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	83	83	83	83	83	87
Yoakim (USGS 11465200)	11.1	84	84	87	88	88	91
Lambert (USGS 11465240)	6.8	90	90	91	91	91	93
Dry Crk Mouth (USGS 11465350)	0.1	70	70	71	71	71	72
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	0	0	0	0	0	0	0
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+1	+1	+4	+5	+5	+5	+5
Yoakim - Lambert	+6	+6	+4	+4	+3	+3	+3
Lambert - Dry Crk Mouth	-20	-20	-20	-20	-20	-19	-20
WSD - Dry Crk Mouth	-13	-13	-12	-12	-12	-11	-13
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	-13	-13	-12	-12	-12	-11	-13
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	36	32	30	29	28	28	29
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	70	70	71	71	71	72	79
Natural Flow	0	0	0	0	0	0	0
Russian River d/s of Confluence Flow							
L. Mendocino Project Water + Import Water	36	32	30	29	28	28	29
L. Sonoma Project Water	70	70	71	71	71	72	79
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	41	35	31	36	34	31	37
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	99	97	95	94	94	97
Hacienda (USGS 11467000)	21.8	41	35	31	36	34	37
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	-6	-5	-5	-5	-5	-6	-10
L. Mendocino Project Water + Import Water	36	32	30	29	28	28	29
L. Sonoma Project Water	64	64	65	66	66	66	73
Natural Flow	0	1	0	0	0	0	0
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	120	108	92	95	110	95	96
Net Reach Loss(-)/Gain(+)	+14	+7	-9	-5	+11	-5	-11
L. Mendocino Project Water + Import Water	35	32	26	29	28	28	22
L. Sonoma Project Water	64	64	65	66	66	66	73
Natural Flow	21	12	0	0	16	1	0
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-64	-67	-69	-64	-65	-69	-70
L. Mendocino Project Water + Import Water	35	32	26	29	28	28	22
L. Sonoma Project Water	0	0	5	7	0	3	14
Natural Flow	6	3	0	0	6	1	0
VIII. Water Production under Sonoma Water Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	156.1	145.7	119.9	117.1	150.6	126.0	116.9
Wohler	69.8	63.0	69.8	74.7	73.2	79.7	71.9
Mirabel	86.2	82.7	50.1	42.3	77.4	46.3	45.1
Town of Windsor River Wellfield	10.7	10.7	10.7	9.9	10.6	11.2	10.6
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	2.9	2.8	2.8	2.8	2.8	2.4	1.9

Notes:

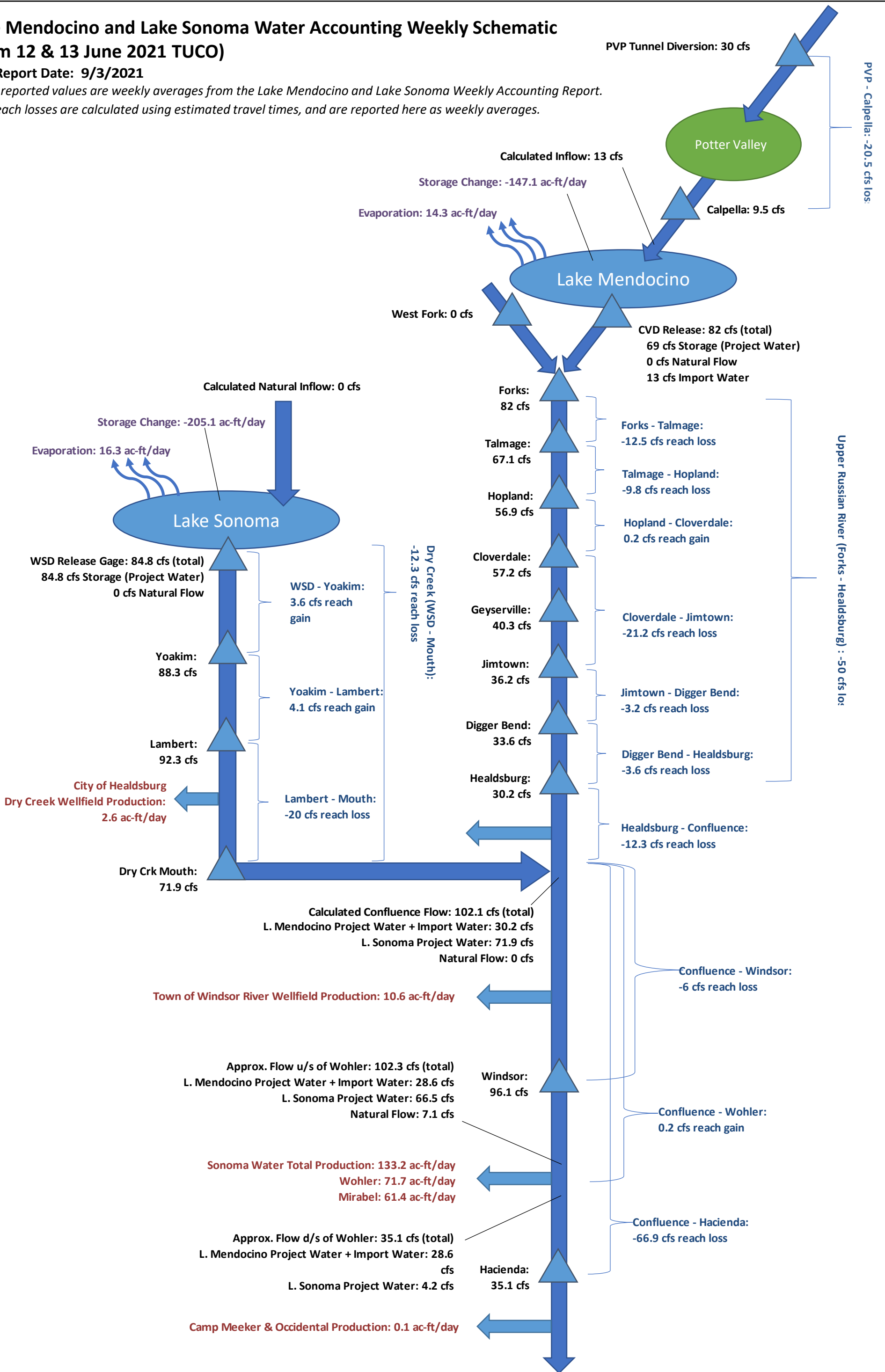
- Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

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

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All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.

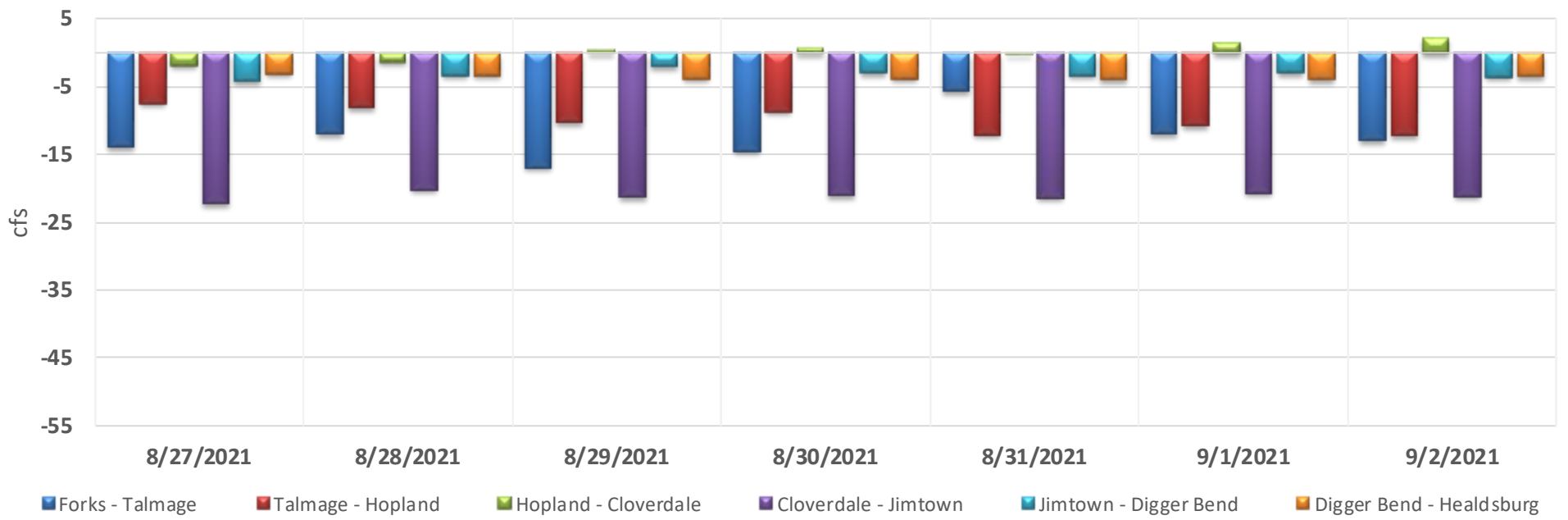
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



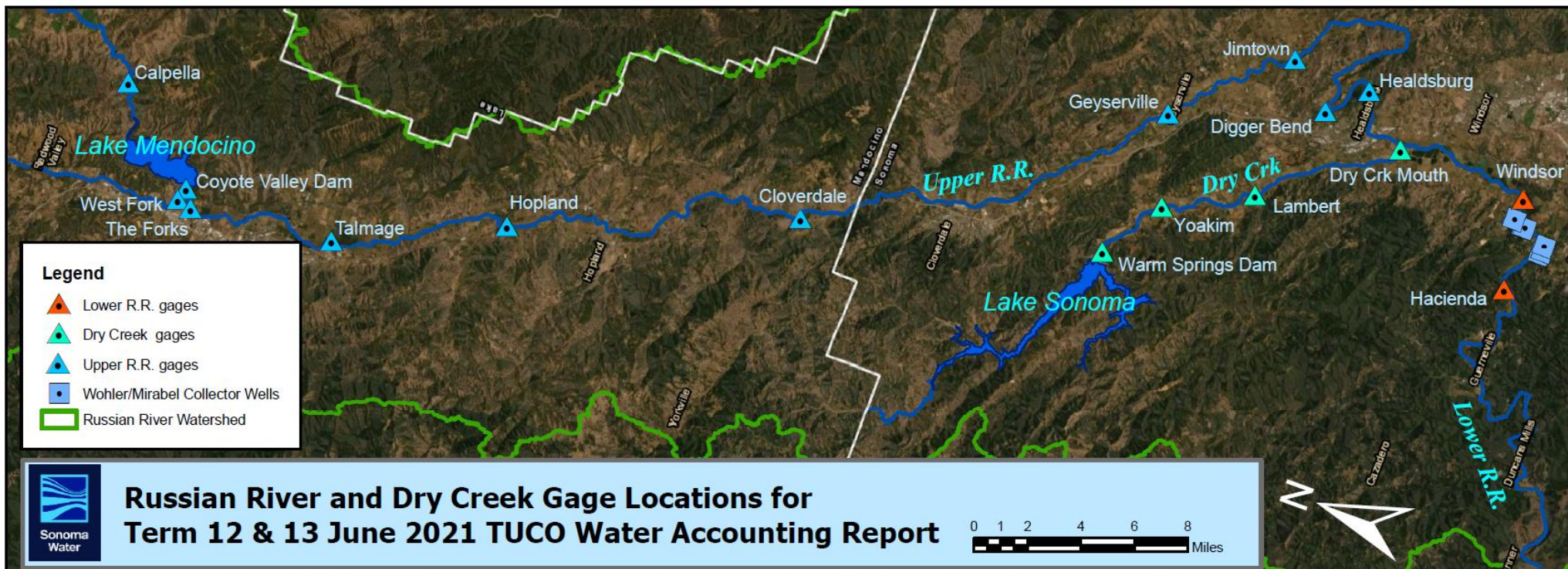
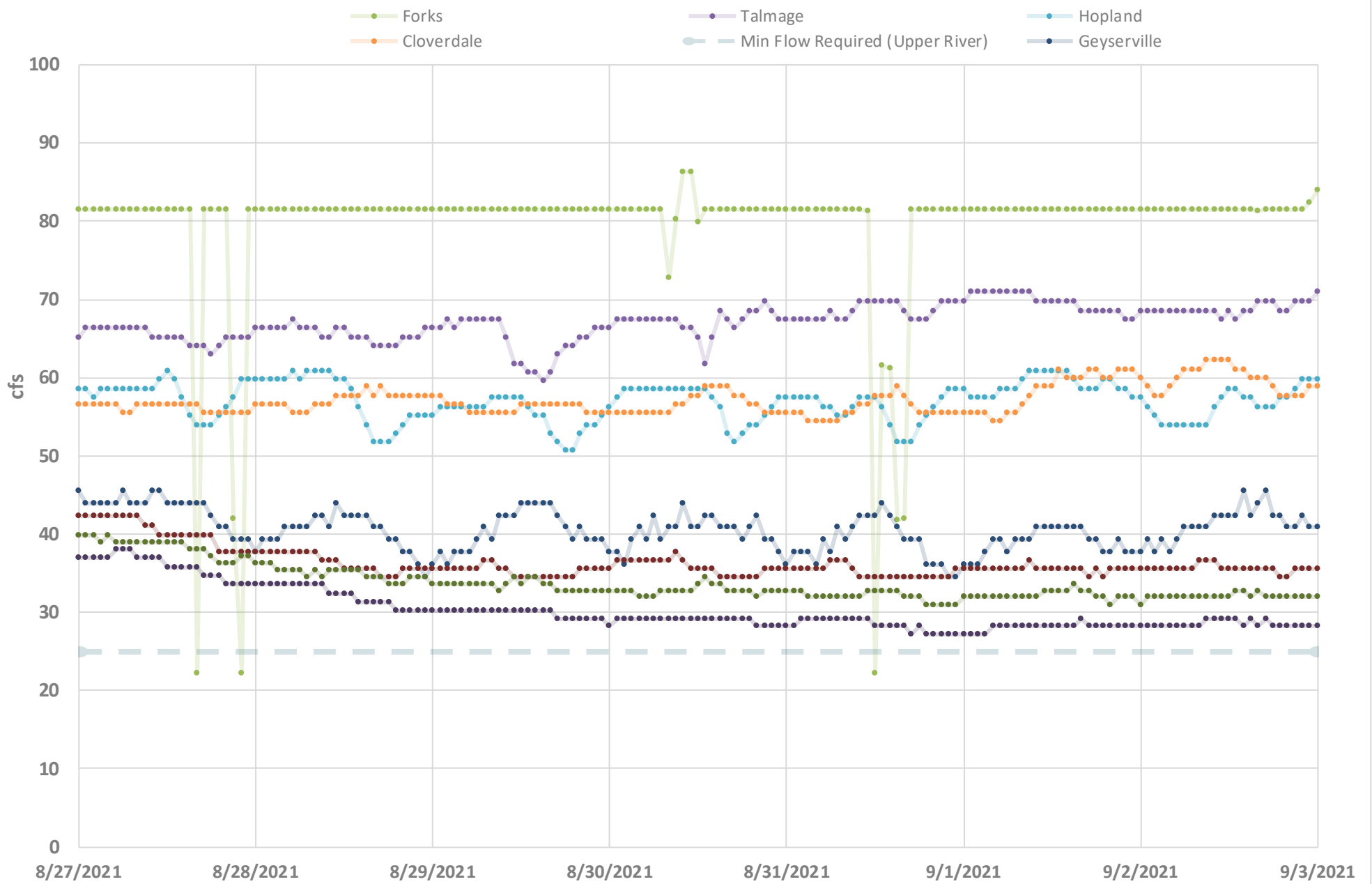
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS



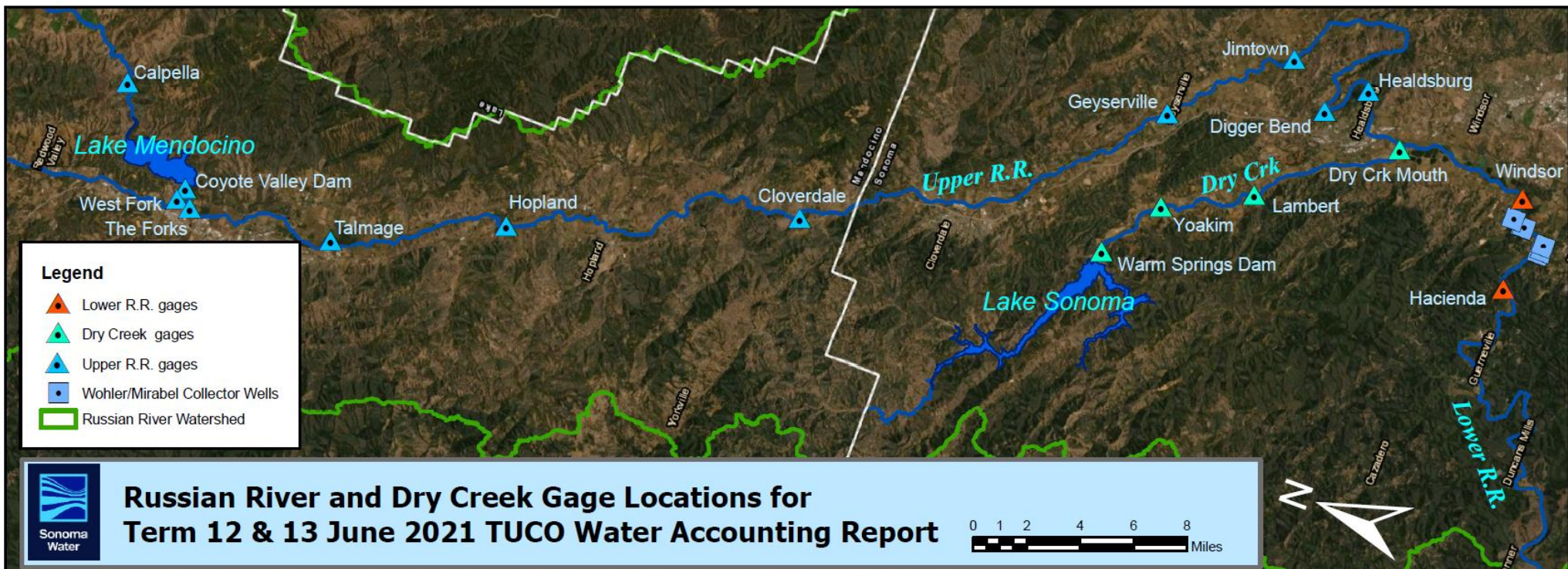
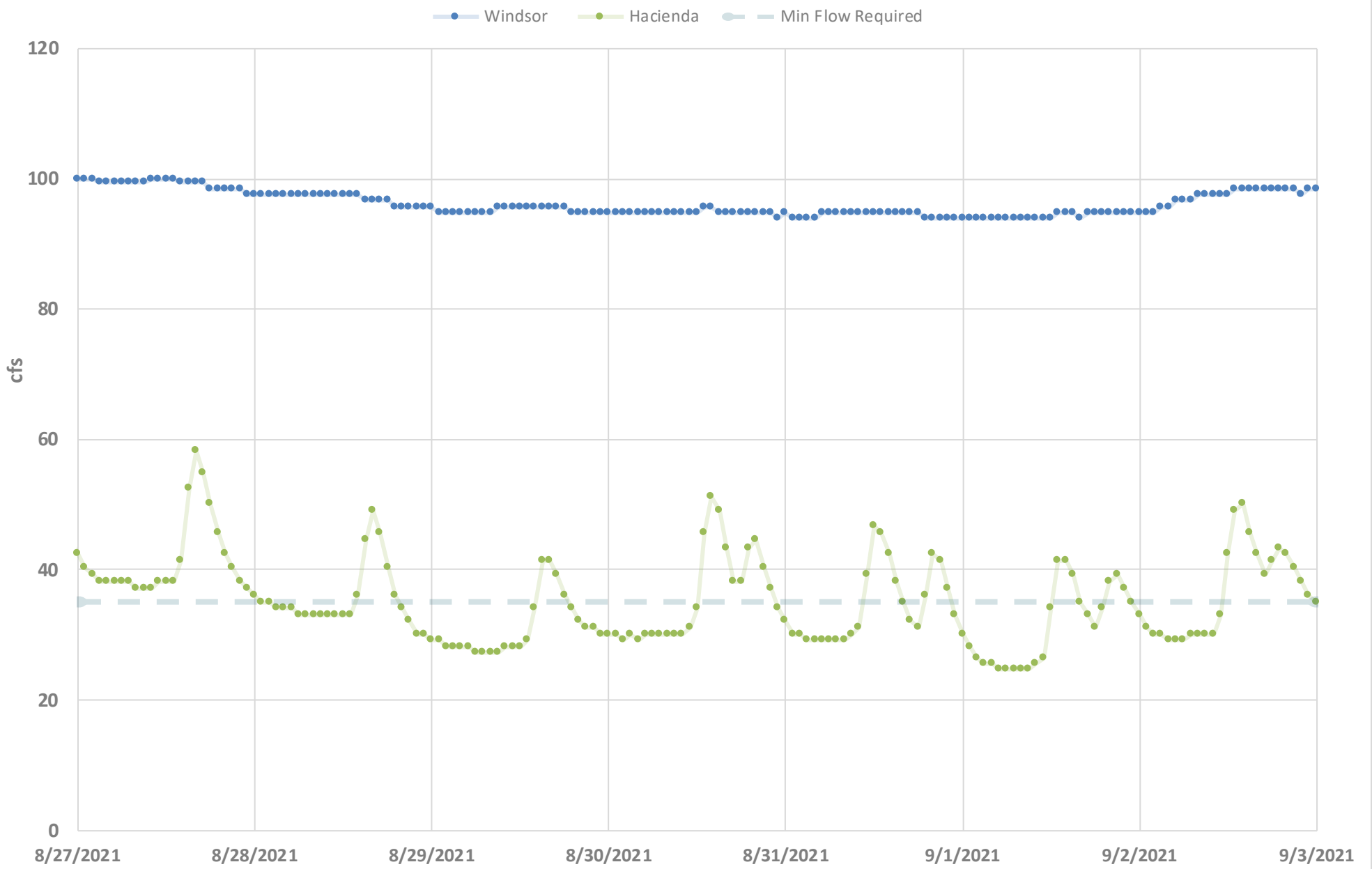
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



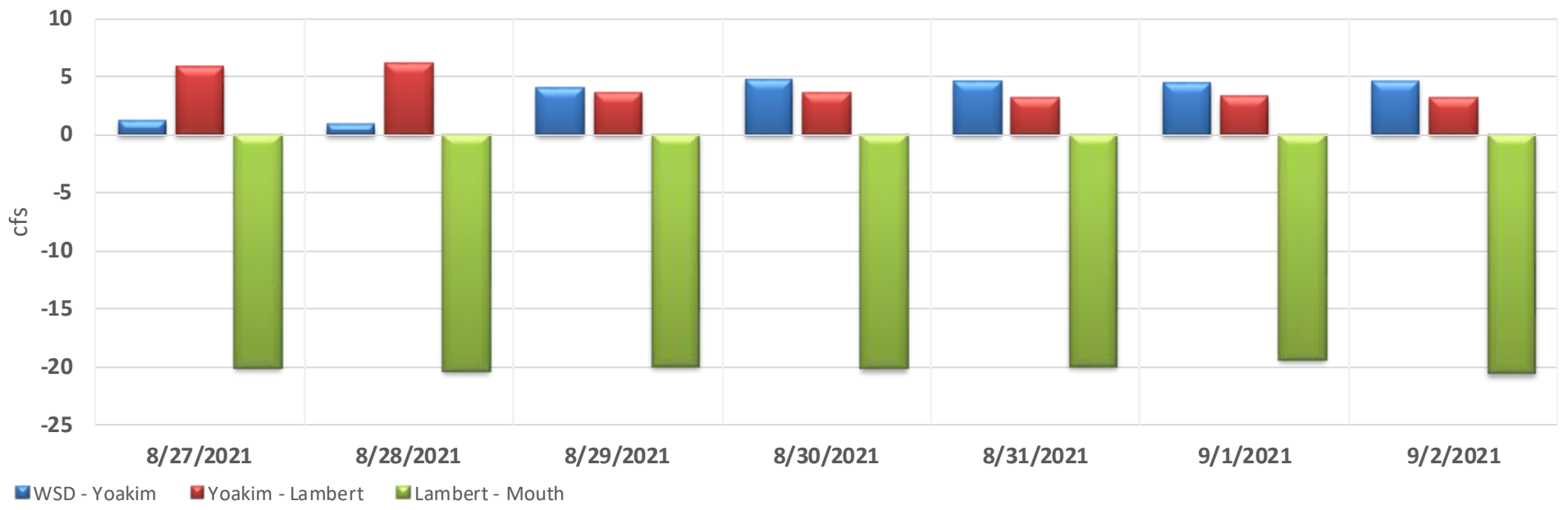
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

