

Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 14, June 2022 TUCO)

Report Date: 8/26/2022

Units are cfs unless noted otherwise

	8/19/2022	8/20/2022	8/21/2022	8/22/2022	8/23/2022	8/24/2022	8/25/2022
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	56.0	56.0	56.0	47.0	47.0	47.0	50.0
PVID Requested Delivery	50.0	50.0	45.8	42.0	42.0	42.0	45.3
PVID Canals Actual Delivery	24.2	24.1	23.0	23.0	22.0	21.5	20.6
East Fork Release	32.0	32.0	33.0	24.0	25.0	26.0	29.0
PVID E Fork Diversions	25.8	25.9	22.8	19.0	20.0	20.5	24.7
PVID Water Use - PG&E Contract	50.0	50.0	45.8	42.0	42.0	42.0	45.3
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)	6.2	6.1	10.3	5.0	5.0	5.5	4.3
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	25.2	29.5	26.4	27.8	23.6	22.8	18.5
Net Reach Loss(-)/Gain(+)	-30.8	-26.5	-29.6	-19.2	-23.4	-24.2	-31.5
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.)	-19.2	-23.5	-16.1	-22.8	-18.6	-17.8	-13.8
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-19.2	-23.5	-16.1	-22.8	-18.6	-17.8	-13.8
II. Lake Mendocino							
Reservoir Operations							
Calculated Inflow (ac-ft)	44	31	59	87	58	31	59
(cfs)	22	15	30	44	29	15	30
Natural Flow	0	0	3	16	5	0	11
Import	22	15	26	28	24	15	19
Storage Change (ac-ft)	-162.0	-176.0	-147.0	-117.0	-147.0	-175.0	-146.0
(cfs)	-82	-89	-74	-59	-74	-88	-74
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)	29.2	30.0	29.0	27.1	28.0	29.0	29.0
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	89	89	89	89	89	89	89
Storage (Project Water)	67	74	59	45	60	74	59
Natural Flow	0	0	3	16	5	0	11
Import Water	22	15	26	28	24	15	19
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage	<i>Rvr mi.</i>						
CVD Release	99.9	89	89	89	89	89	89
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	22	15	30	44	29	15	30
Project Water Release Required	Yes	Yes	No	No	No	Yes	No
III. Upper Russian River Reach							
Minimum Instream Flow Requirement	25	25	25	25	25	25	25
Controlling Compliance Gage							
Min Gage Flow	23	22	24	26	26	27	28
Controlling Gage	Digger Bend	Digger Bend	Digger Bend	Healdsburg	Healdsburg	Healdsburg	Healdsburg
All Compliance Gages							
	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	89	89	89	89	89	89
Talmage (USGS 11462080)	96.1	76	80	81	82	84	84
Hopland (USGS 11462500)	84.8	61	65	67	67	66	69
Cloverdale (USGS 11463000)	70.9	60	60	61	63	66	69
Geyserville (USGS 11463500)	54.4	30	35	37	38	39	40
Jimtown (USGS 11463682)	48.5	28	30	33	35	35	38
Digger Bend (USGS 11463980)	38.2	23	22	24	26	27	29
Healdsburg (USGS 11464000)	35.6	24	24	25	26	26	28
Net Reach Loss(-)/Gain(+)							
Forks - Talmage	-13	-9	-8	-7	-5	-6	-5
Talmage - Hopland	-16	-14	-13	-15	-17	-17	-15
Hopland - Cloverdale	-3	-1	-5	-4	+0	-0	+1
Cloverdale - Jimtown	-14	-27	-28	-26	-28	-29	-29
Jimtown - Digger Bend	-6	-6	-7	-8	-8	-8	-8
Digger Bend - Healdsburg	+1	+2	+2	+0	+0	-0	-0
Upper Russian Net Reach Loss/Gain	-52	-56	-60	-60	-58	-60	-56
CVD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-52	-57	-62	-60	-58	-60	-56
Storage (Project Water)	-52	-57	-59	-45	-58	-60	-56
Pass-through Water (Nat. + Imp.) + Natural	0	0	-2	-15	0	0	0
Total Pass-through Water	22	15	28	29	29	15	30
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).

	8/19/2022	8/20/2022	8/21/2022	8/22/2022	8/23/2022	8/24/2022	8/25/2022
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-245.0	-261.0	-261.0	-244.0	-244.0	-243.0	-243.0
(cfs)	-124	-132	-132	-123	-123	-123	-123
Evaporation (ac-ft)	27.8	25.5	22.2	25.4	24.3	22.0	17.6
Inflow (Natural Flow)	0	0	0	0	0	0	0
WSD Release Gage	106	106	106	106	102	99	98
Storage (Project Water)	106	106	106	106	102	99	98
Natural Flow	0	0	0	0	0	0	0

V. Lower Dry Creek Reach

Minimum Instream Flow Requirement		80	80	80	80	80	80	80
Controlling Compliance Gage								
Min Gage Flow		92	92	94	94	93	88	86
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	106	106	106	106	102	99	98
Yoakim (USGS 11465200)	11.1	109	109	110	110	106	101	101
Lambert (USGS 11465240)	6.8	112	112	114	113	110	105	105
Dry Crk Mouth (USGS 11465350)	0.1	92	92	94	94	93	88	86
WSD to Russian River Confluence Reach Analysis								
Total Pass-through Water		0	0	0	0	0	0	0
Net Reach Loss(-)/Gain(+)								
WSD - Yoakim		+3	+3	+4	+4	+3	+2	+2
Yoakim - Lambert		+3	+3	+4	+4	+4	+4	+3
Lambert - Dry Crk Mouth		-20	-20	-20	-20	-19	-17	-18
WSD - Dry Crk Mouth		-15	-14	-12	-12	-12	-11	-12
WSD Project Water Release to Meet Min Flow Requirement								
Net Reach Loss/Gain to Controlling Gage		-15	-14	-12	-12	-12	-11	-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		24	24	25	26	26	27	28
Natural Flow		0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)								
L. Sonoma Project Water		106	106	106	106	102	99	98
Natural Flow		0	0	0	0	0	0	0
Russian River d/s of Confluence Flow								
L. Mendocino Project Water + Import Water		116	116	119	120	120	115	114
L. Sonoma Project Water		24	24	25	26	26	27	28
Natural Flow		106	106	106	106	102	99	98
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		39	49	48	51	55	54	54
Controlling Gage		Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages								
	<i>Rvr mi.</i>							
Windsor (USGS 11465390)	26.6	113.0	116.4	119.8	123.0	123.2	121.6	122.0
Hacienda (USGS 11467000)	21.8	39	49	48	51	55	54	54
Confluence to Windsor Reach Analysis								
Net Reach Loss/Gain to Windsor Gage		-3	+1	+3	+3	+3	+5	+8
L. Mendocino Project Water + Import Water		24	24	25	26	26	27	28
L. Sonoma Project Water		102	102	102	101	97	94	93
Natural Flow		0	1	3	3	3	5	8
Confluence to SCWA Wohler Production Facility Reach Analysis								
Approx. Flow u/s of Wohler		101	109	118	115	120	115	105
Net Reach Loss(-)/Gain(+)		-15	-7	-0	-5	+0	-0	-9
L. Mendocino Project Water + Import Water		24	24	25	26	26	27	28
L. Sonoma Project Water		102	102	102	101	97	94	93
Natural Flow		0	0	0	0	0	0	0
Confluence to Hacienda (Guerneville) Reach Analysis								
Net Reach Loss(-)/Gain(+)		-77	-67	-71	-69	-65	-62	-60
L. Mendocino Project Water + Import Water		24	24	25	26	26	27	28
L. Sonoma Project Water		39	42	31	37	32	33	42
Natural Flow		0	0	0	0	0	0	0

VIII. Water Production under Sonoma Water Water Rights (ac-ft)

Lower Russian River								
Sonoma Water Total		123.8	118.5	140.1	127.3	129.1	122.1	101.3
Wohler		53.0	45.8	45.8	46.8	46.1	46.3	45.8
Mirabel		64.0	65.8	87.6	73.7	76.2	69.2	48.8
Town of Windsor River Wellfield		9.0	8.9	8.5	8.4	9.4	9.5	9.1
Camp Meeker & Occidental		0.0	0.0	0.0	0.0	0.0	0.0	0.0
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		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

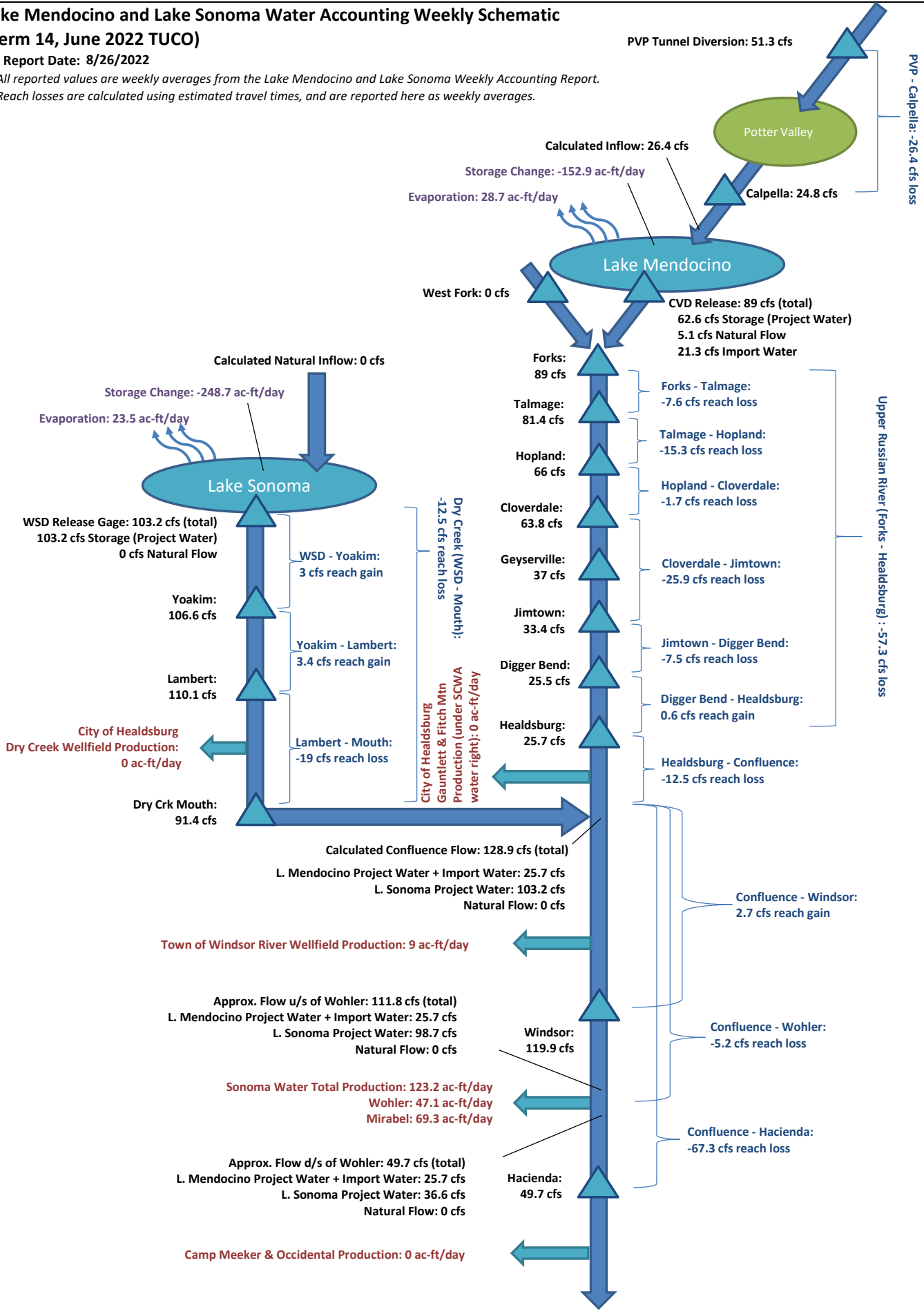
- Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

Lake Mendocino and Lake Sonoma Water Accounting Weekly Schematic

(Term 14, June 2022 TUCO)

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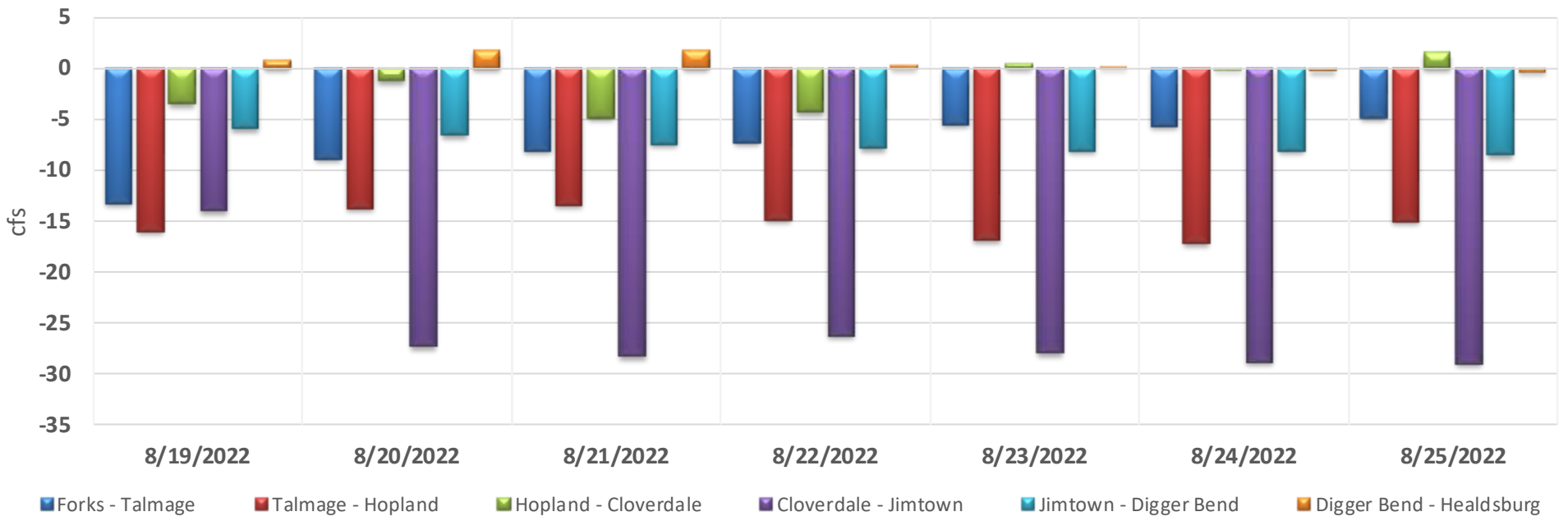
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



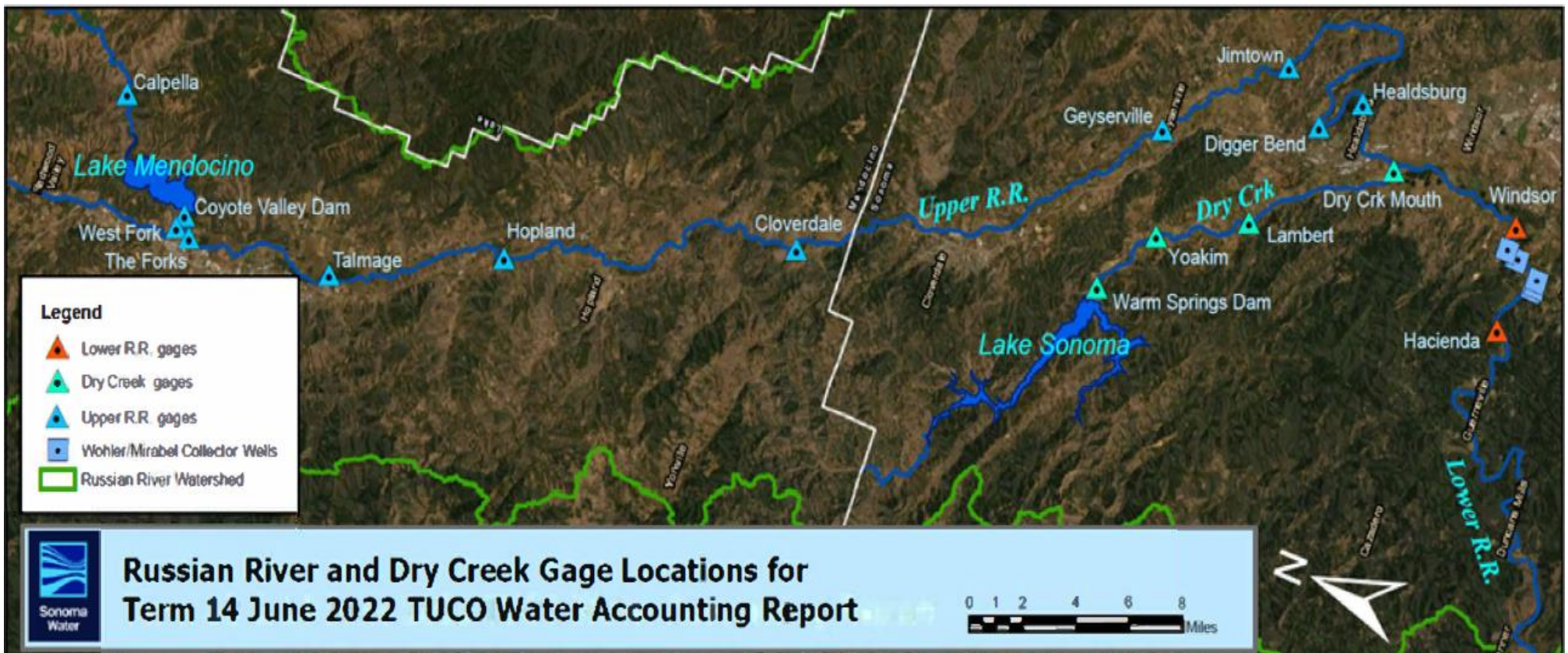
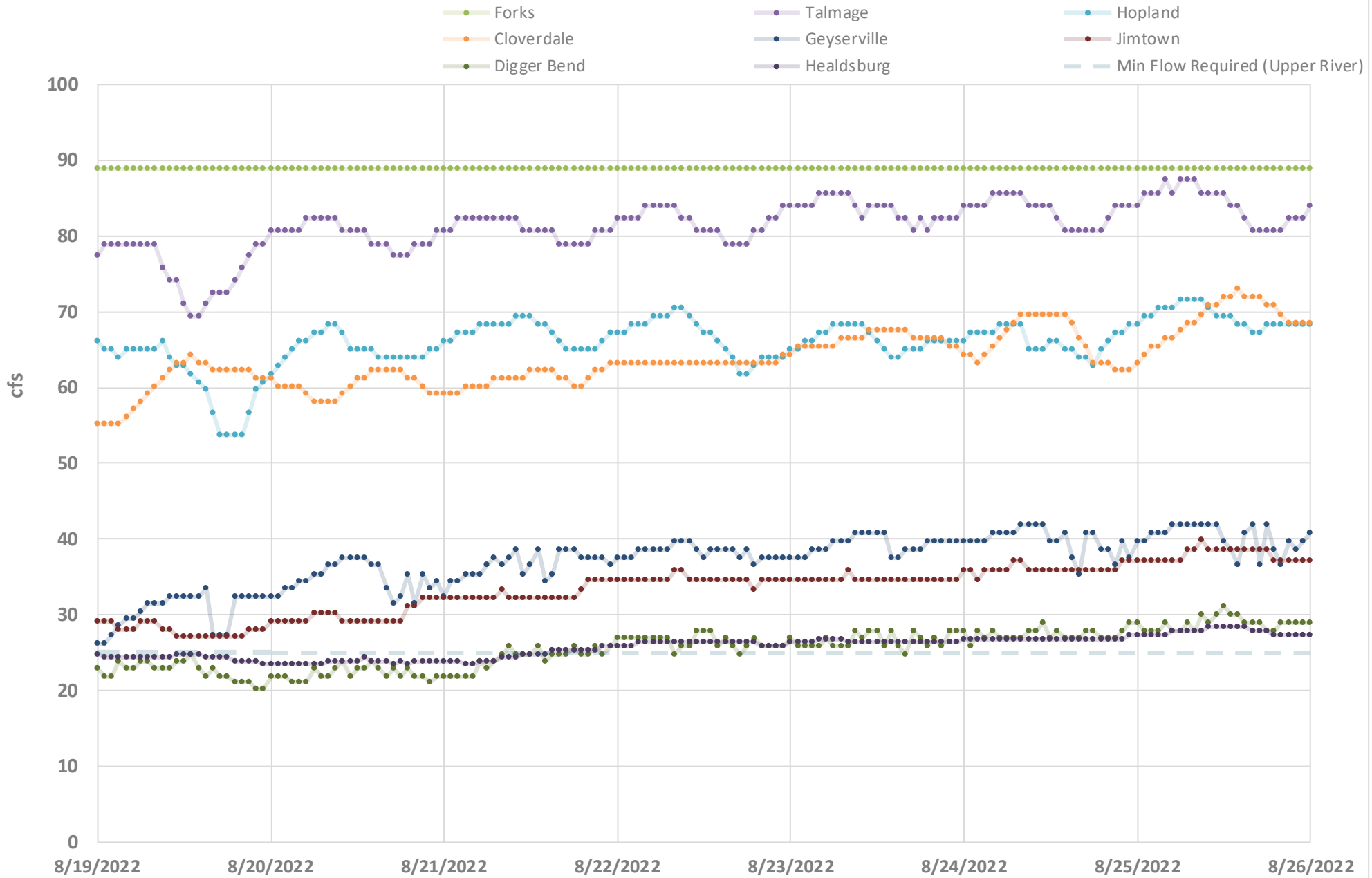
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS



Russian River and Dry Creek Gage Locations for Term 14 June 2022 TUCO Water Accounting Report



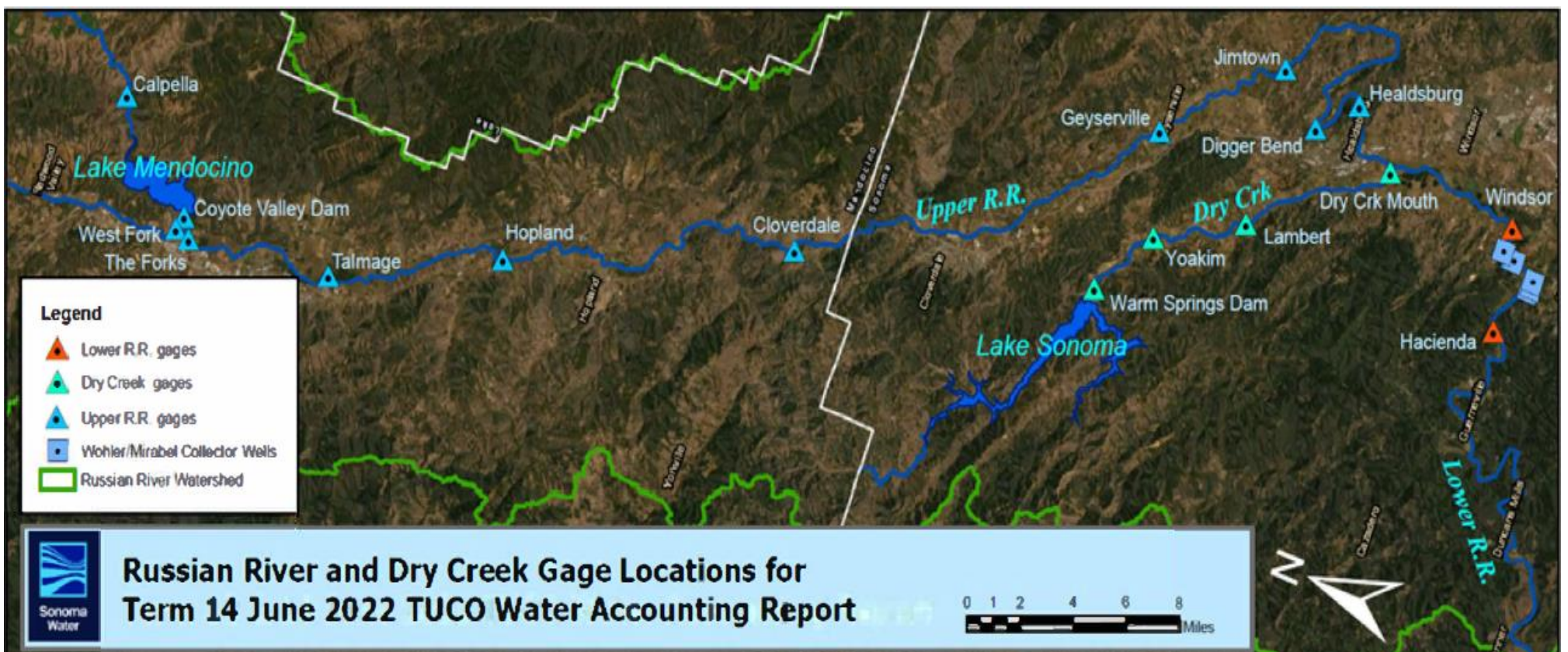
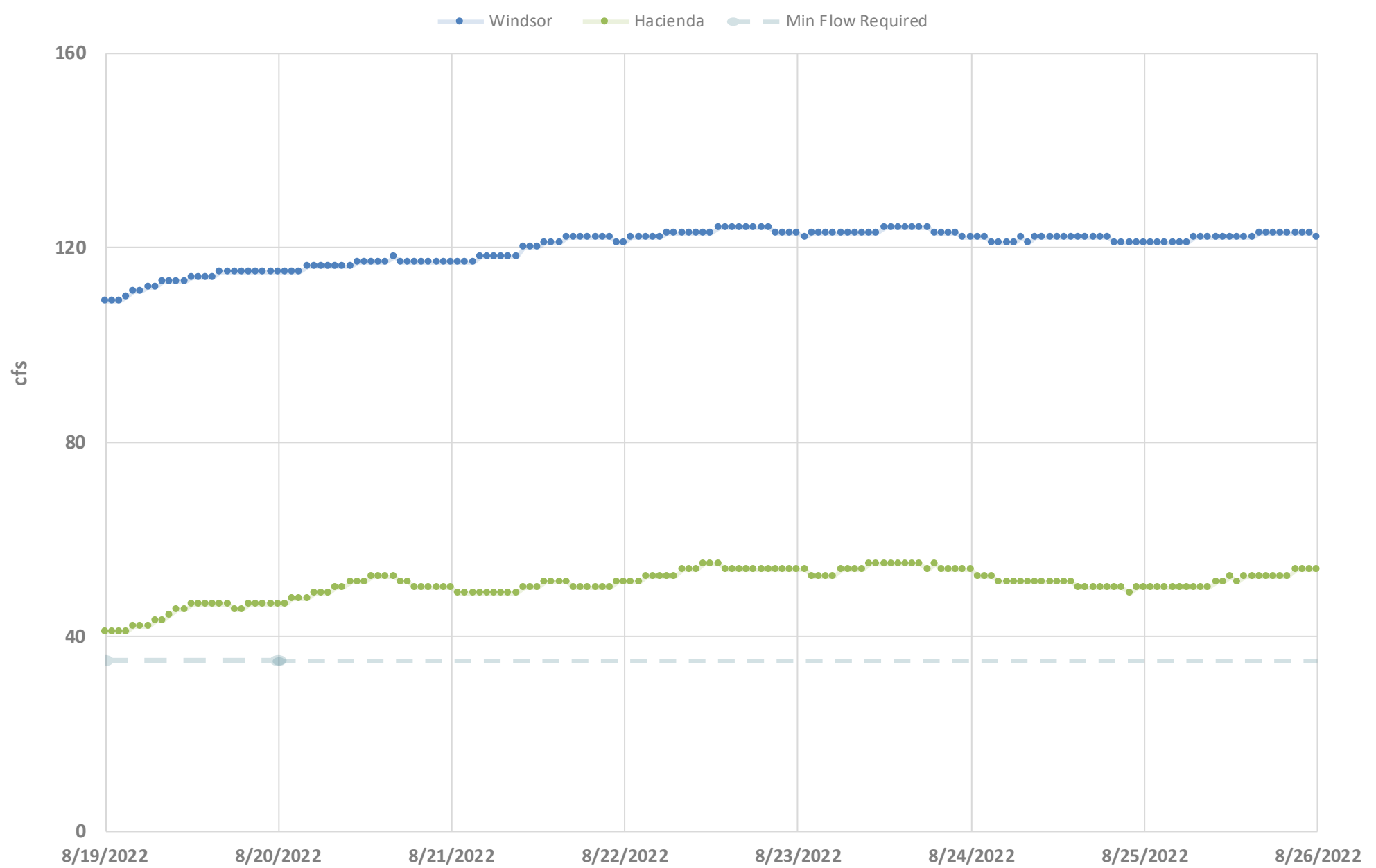
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



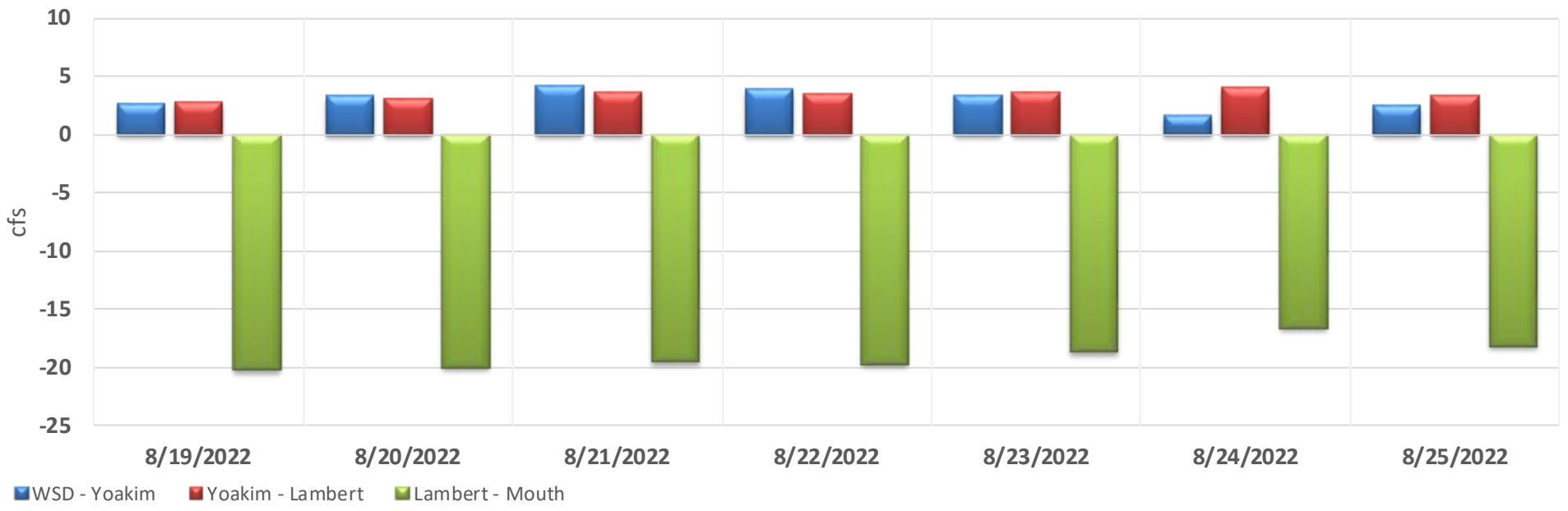
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

