

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

Report Date: 7/15/2022

Units are cfs unless noted otherwise

	7/8/2022	7/9/2022	7/10/2022	7/11/2022	7/12/2022	7/13/2022	7/14/2022
I. Upper East Fork Reach							
Potter Valley Project							
Tunnel Diversion	120.0	120.0	120.0	121.0	120.0	119.0	120.0
PVID Requested Delivery	40.0	40.0	40.0	40.0	40.0	40.0	40.0
PVID Canals Actual Delivery	25.0	25.0	25.2	25.3	25.1	25.1	25.2
East Fork Release	95.0	95.0	95.0	98.0	95.0	94.0	95.0
PVID E Fork Diversions	15.0	15.0	14.8	14.7	14.9	14.9	14.8
PVID Water Use - PG&E Contract	40.0	40.0	40.0	40.0	40.0	40.0	40.0
PVID Water Use - License 5264	0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID (Import)	80.0	80.0	80.2	83.3	80.1	79.1	80.2
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	94.2	96.0	95.0	80.4	80.0	86.4	81.9
Net Reach Loss(-)/Gain(+)	-25.8	-24.0	-25.0	-40.6	-40.0	-32.6	-38.1
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.)	-14.2	-16.0	-15.0	0.6	0.0	-7.4	-1.9
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-14.2	-16.0	-15.0	0.6	0.0	-7.4	-1.9

II. Lake Mendocino

Reservoir Operations

Calculated Inflow (ac-ft)	192	191	194	179	173	169	172
(cfs)	97	96	98	90	87	85	87
Natural Flow	3	0	3	10	7	0	5
Import	94	96	95	80	80	85	82
Storage Change (ac-ft)	+0.0	+0.0	+0.0	-15.0	-15.0	-15.0	-15.0
(cfs)	+0	+0	+0	-8	-8	-8	-8
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)	29.7	28.7	31.6	31.6	31.6	27.7	30.6
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	82	82	82	82	79	79	79
Storage (Project Water)	0	0	0	0	0	0	0
Natural Flow	0	0	0	10	7	0	5
Import Water	82	82	82	80	80	85	82
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25
Compliance Gage		<i>Rvr mi.</i>					
CVD Release		99.9	82	82	79	79	79
CVD Project Water Release to Meet Min Flow Requirement							
Total Pass-through Water	82	82	82	90	87	85	87
Project Water Release Required	No	No	No	No	No	No	No

III. Upper Russian River Reach

Minimum Instream Flow Requirement

Controlling Compliance Gage

Min Gage Flow	33	33	33	33	32	32	31
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg

All Compliance Gages

	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	83	83	83	83	80	79
Talmage (USGS 11462080)	96.1	71	70	71	70	69	69
Hopland (USGS 11462500)	84.8	63	61	64	63	59	58
Cloverdale (USGS 11463000)	70.9	61	60	59	60	52	49
Geyserville (USGS 11463500)	54.4	39	41	40	40	38	35
Jimtown (USGS 11463682)	48.5	41	41	42	41	41	39
Digger Bend (USGS 11463980)	38.2	38	37	38	38	37	35
Healdsburg (USGS 11464000)	35.6	33	33	33	33	32	31

Net Reach Loss(-)/Gain(+)

Forks - Talmage	-13	-13	-12	-13	-11	-11	-10
Talmage - Hopland	-9	-8	-8	-8	-10	-7	-11
Hopland - Cloverdale	-1	-1	-2	-4	-7	-12	-12
Cloverdale - Jimtown	-16	-17	-20	-18	-20	-14	-14
Jimtown - Digger Bend	-4	-3	-4	-3	-4	-4	-3
Digger Bend - Healdsburg	-5	-5	-5	-5	-5	-5	-5
Upper Russian Net Reach Loss/Gain	-48	-48	-50	-52	-58	-53	-55

CVD Project Water Release to Meet Min Flow Requirement

Net Reach Loss(-)/Gain(+) to Controlling Gage	-48	-48	-50	-52	-58	-53	-55
Storage (Project Water)	0	0	0	0	0	0	0
Pass-through Water (Nat. + Imp.) + Natural	-48	-48	-50	-52	-58	-53	-55
Total Pass-through Water	34	34	32	38	29	32	32
Project Water Release Required	No	No	No	No	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).

	<u>7/8/2022</u>	<u>7/9/2022</u>	<u>7/10/2022</u>	<u>7/11/2022</u>	<u>7/12/2022</u>	<u>7/13/2022</u>	<u>7/14/2022</u>
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-206.0	-223.0	-224.0	-222.0	-206.0	-222.0	-239.0
(cfs)	-104	-112	-113	-112	-104	-112	-120
Evaporation (ac-ft)	32.5	28.2	31.4	30.3	25.9	24.8	30.2
Inflow (Natural Flow)	6	0	0	0	2	0	0
WSD Release Gage	93	92	93	93	93	93	93
Storage (Project Water)	87	92	93	93	91	93	93
Natural Flow	6	0	0	0	2	0	0
V. Lower Dry Creek Reach							
Minimum Instream Flow Requirement	80	80	80	80	80	80	80
Controlling Compliance Gage							
Min Gage Flow	80	81	81	81	81	81	81
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	93	92	93	93	93	93
Yoakim (USGS 11465200)	11.1	97	99	96	96	96	101
Lambert (USGS 11465240)	6.8	105	105	106	105	104	104
Dry Crk Mouth (USGS 11465350)	0.1	80	81	81	81	81	81
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	6	0	0	0	2	0	0
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+3	+7	+4	+4	+4	+4	+9
Yoakim - Lambert	+9	+5	+9	+9	+8	+9	+4
Lambert - Dry Crk Mouth	-24	-24	-24	-24	-24	-23	-24
WSD - Dry Crk Mouth	-13	-12	-11	-11	-11	-10	-11
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	-13	-12	-11	-11	-11	-10	-11
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	33	33	33	33	32	32	31
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	87	92	93	93	91	93	93
Natural Flow	0	0	0	0	0	0	0
Russian River d/s of Confluence Flow							
L. Mendocino Project Water + Import Water	33	33	33	33	32	32	31
L. Sonoma Project Water	87	92	93	93	91	93	93
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	52	52	56	57	39	43
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	129.2	126.5	124.3	125.9	122.3	144.8
Hacienda (USGS 11467000)	21.8	52	52	52	56	57	43
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	+15	+13	+11	+11	+9	+19	+32
L. Mendocino Project Water + Import Water	33	33	33	33	32	32	31
L. Sonoma Project Water	83	88	88	89	86	88	88
Natural Flow	15	13	11	11	9	19	32
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	119	130	106	111	137	108	107
Net Reach Loss(-)/Gain(+)	+5	+17	-8	-3	+24	-6	-5
L. Mendocino Project Water + Import Water	33	33	33	33	32	32	31
L. Sonoma Project Water	83	88	88	89	86	88	88
Natural Flow	5	17	0	0	24	0	0
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-61	-61	-62	-58	-56	-74	-69
L. Mendocino Project Water + Import Water	33	33	33	33	32	32	31
L. Sonoma Project Water	17	10	34	34	7	20	24
Natural Flow	5	17	0	0	24	0	0
VIII. Water Production under Sonoma Water Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	131.4	154.8	107.2	108.5	157.4	136.3	126.5
Wohler	47.9	72.6	54.8	67.8	76.5	50.8	47.9
Mirabel	78.6	77.2	47.5	37.6	78.5	81.0	73.7
Town of Windsor River Wellfield	8.9	8.7	8.7	8.5	8.9	9.2	9.2
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

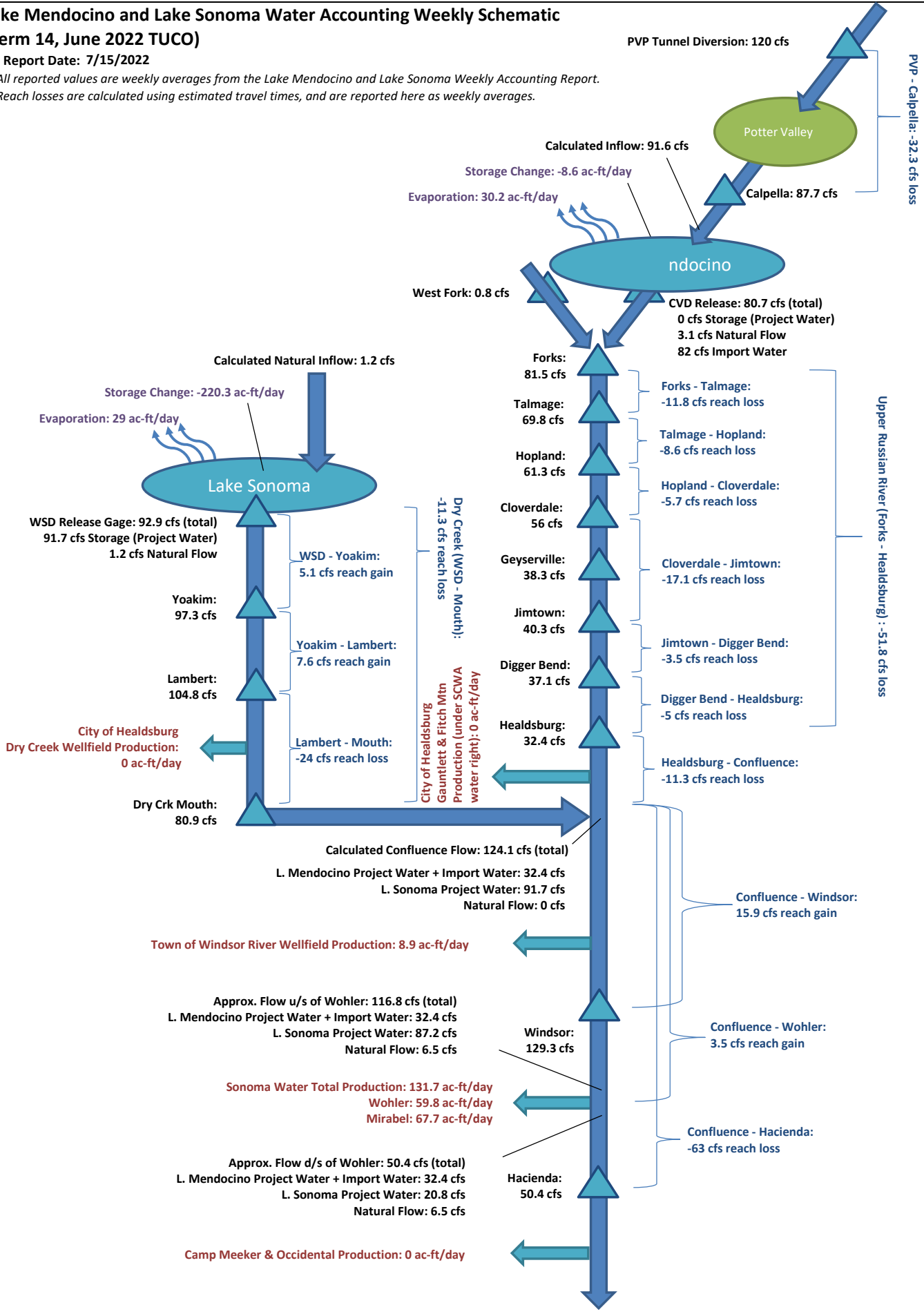
Notes:

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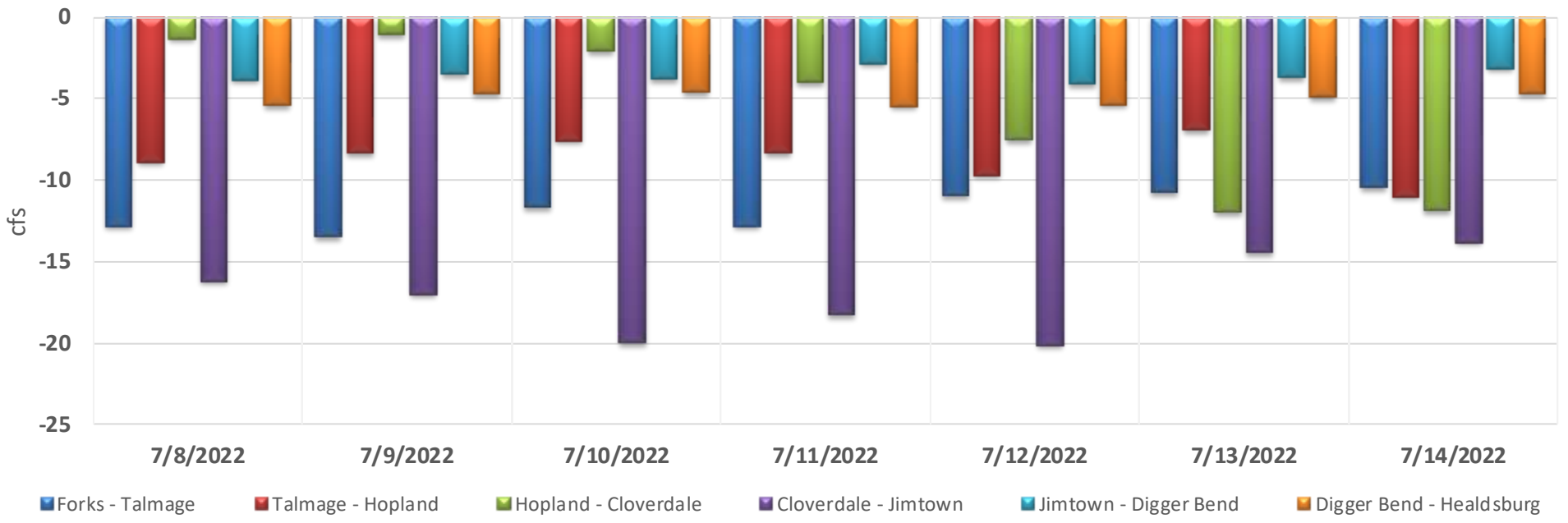
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



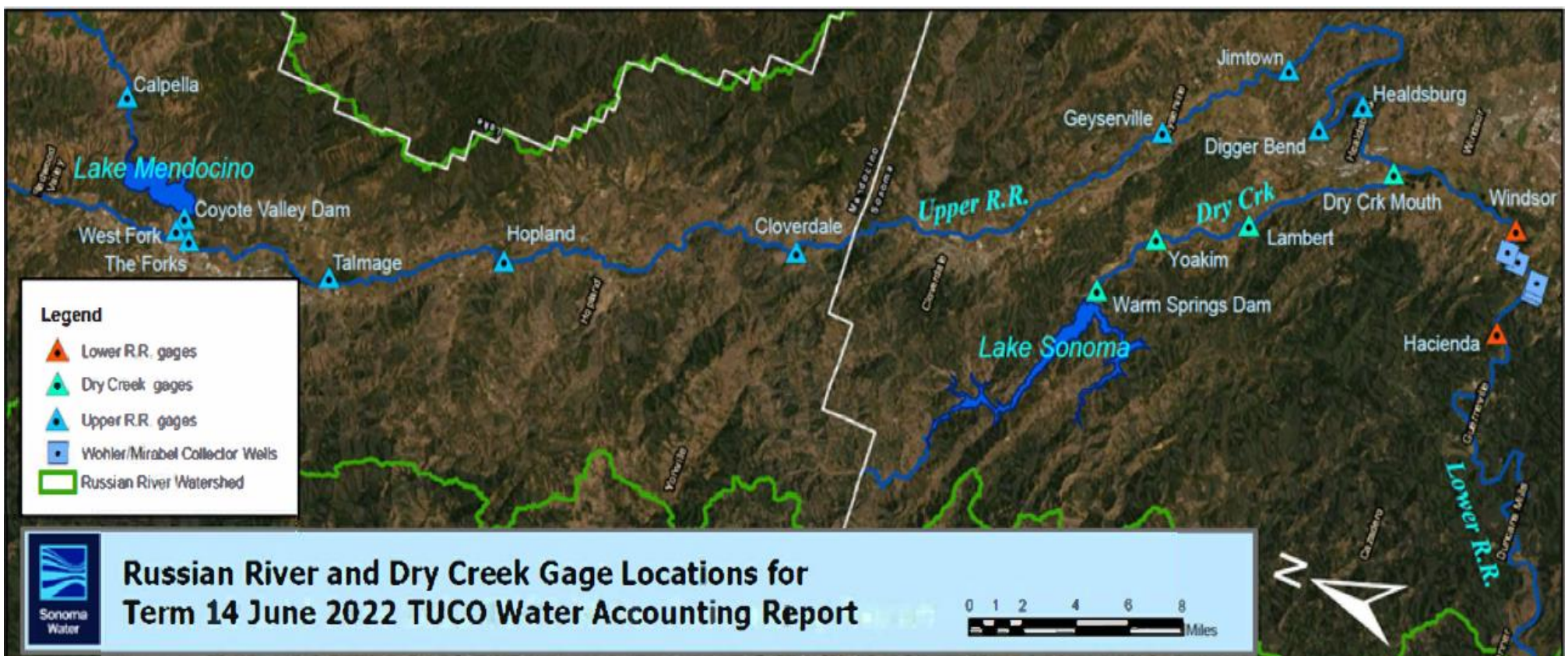
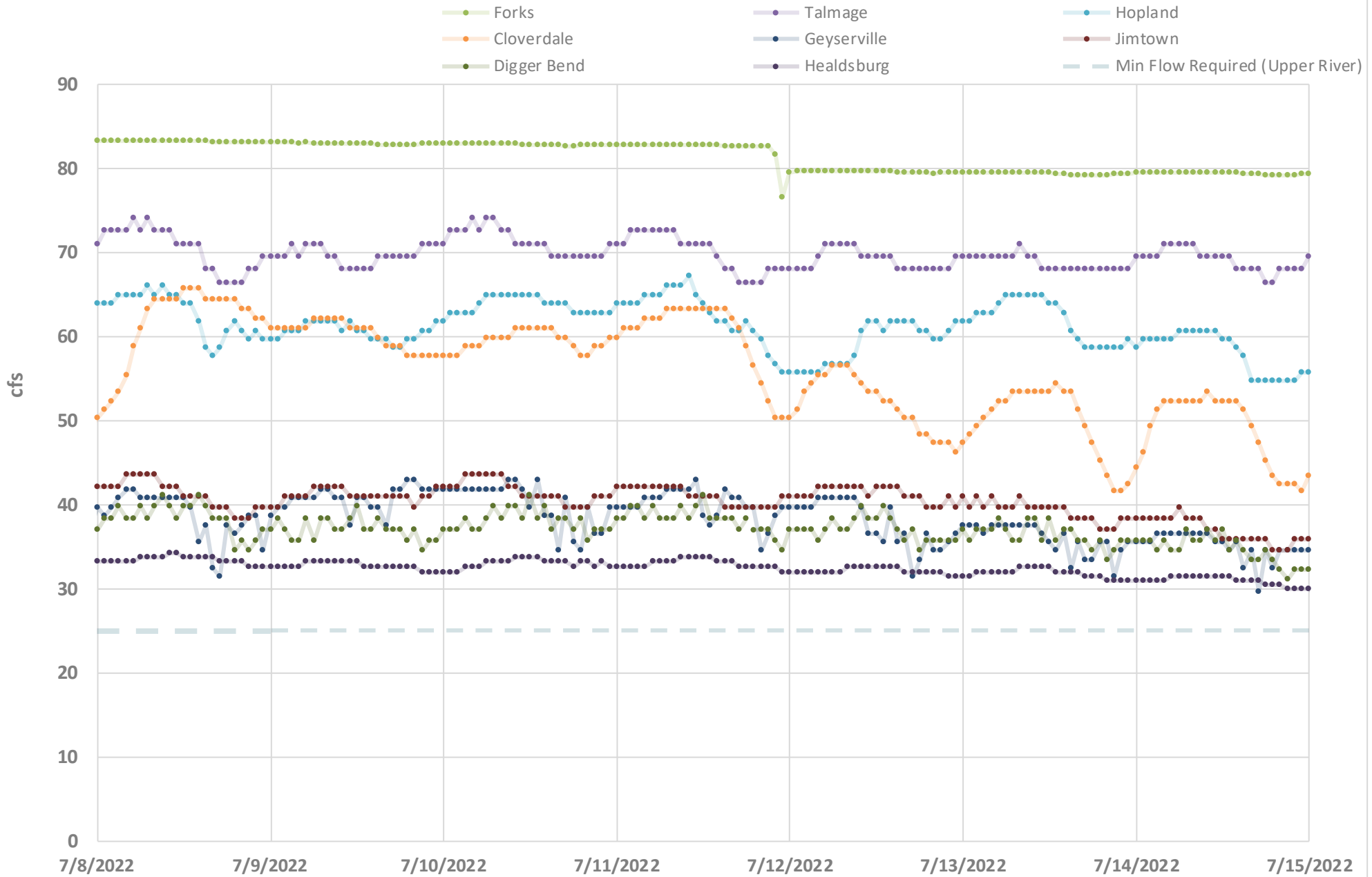
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



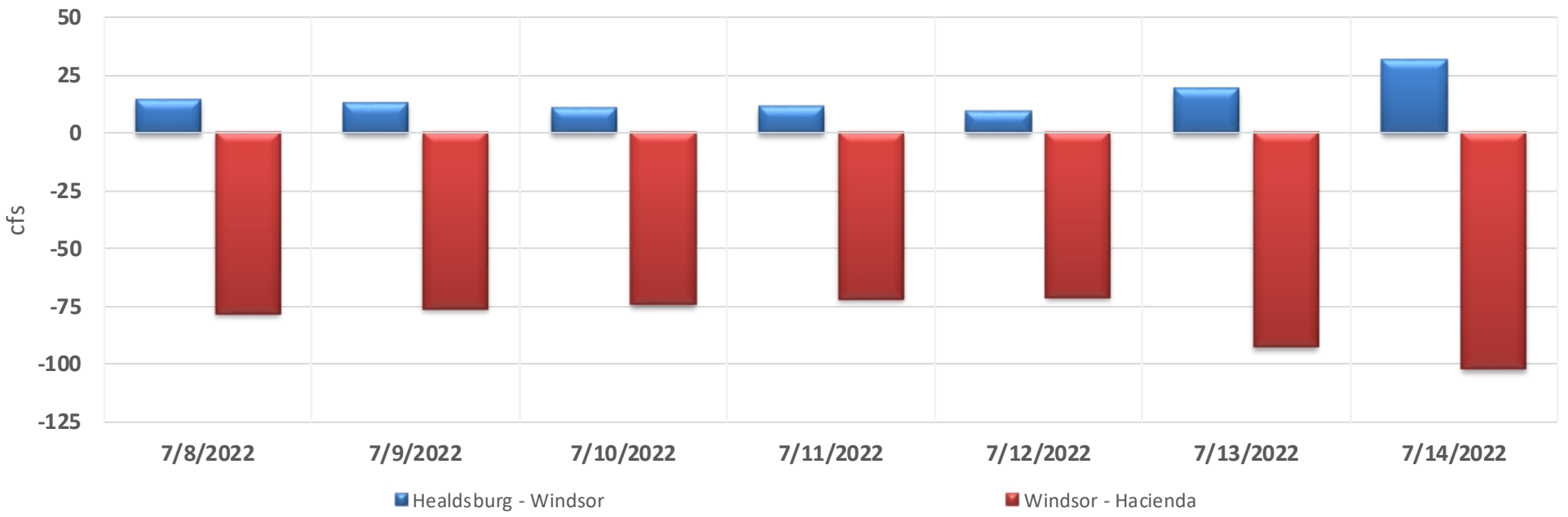
UPPER RUSSIAN RIVER STREAM FLOWS



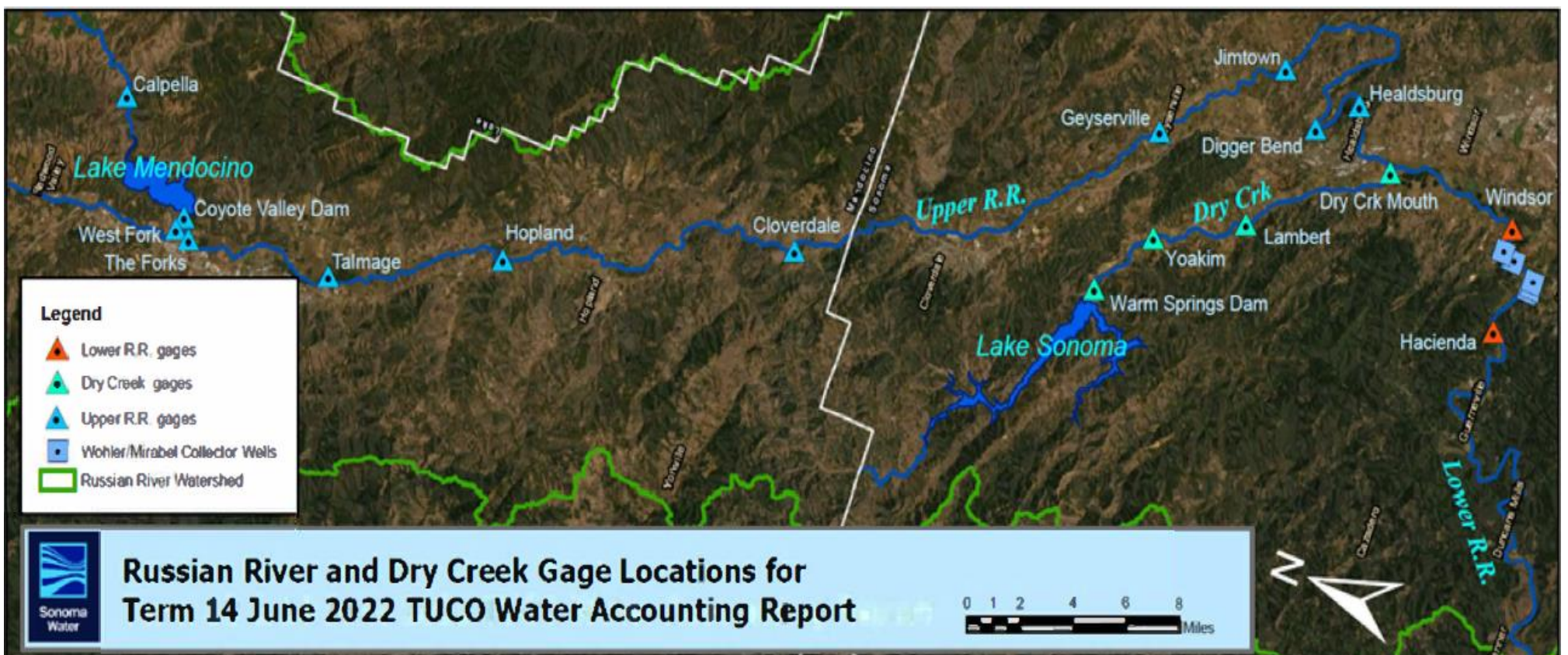
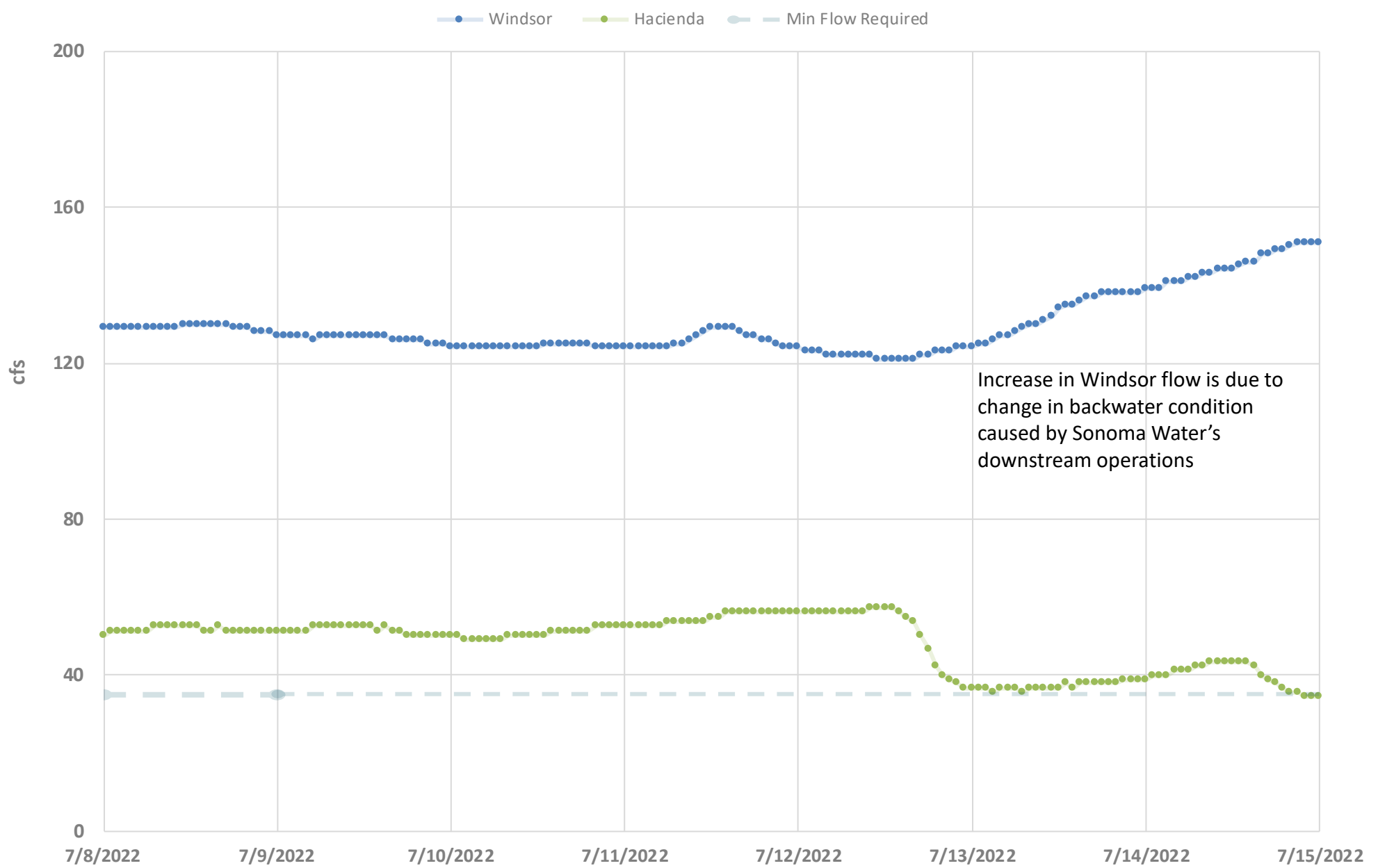
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



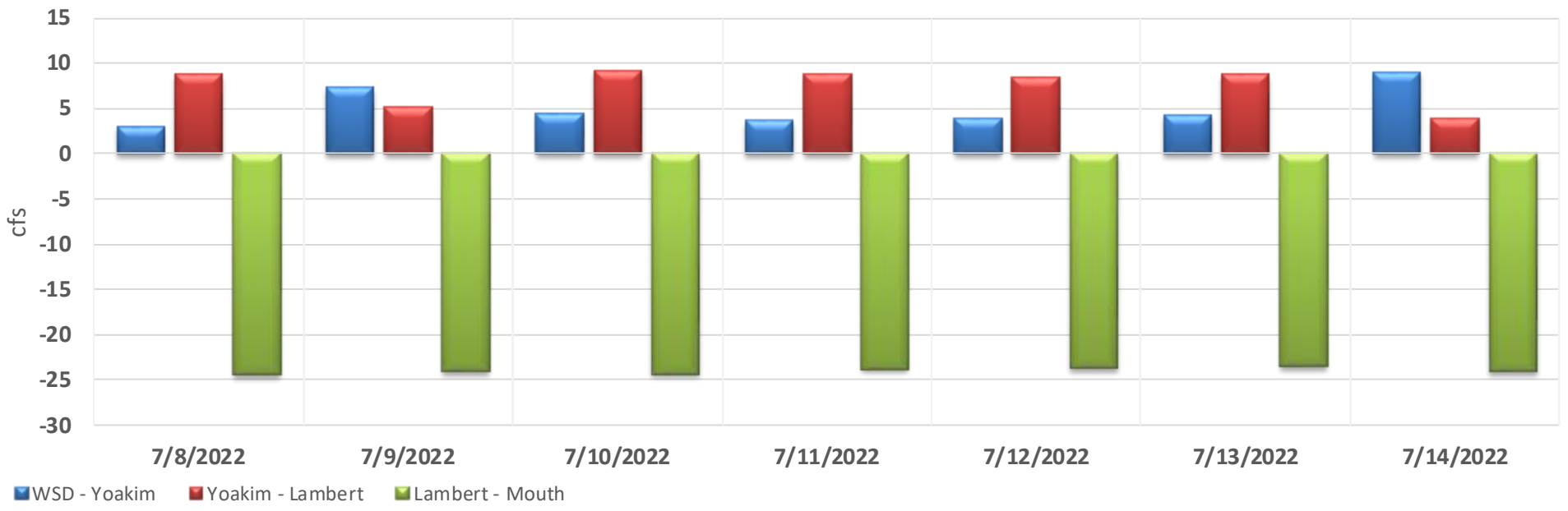
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

