

# Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 11, May 2023 TUCO)

Report Date: 6/16/2023

Units are cfs unless noted otherwise

	6/9/2023	6/10/2023	6/11/2023	6/12/2023	6/13/2023	6/14/2023	6/15/2023
<b>I. Upper East Fork Reach</b>							
<b>Potter Valley Project</b>							
Tunnel Diversion	100.0	100.0	100.0	99.0	99.0	100.0	100.0
PVID Requested Delivery	20.0	20.0	20.0	20.0	20.0	20.0	20.0
PVID Canals Actual Delivery	20.2	20.1	20.2	20.4	21.2	23.9	21.6
East Fork Release	80.0	80.0	80.0	79.0	78.0	76.0	78.0
PVID E Fork Diversions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PVID Water Use - PG&E Contract	20.2	20.1	20.2	20.4	21.2	23.9	21.6
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	80.0	79.0	78.0	76.0	78.0
PVID Canal Net Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>East Fork / Potter Valley Reach Analysis</b>							
USGS E Fork @ Calpella	98.0	94.0	96.9	98.7	96.9	100.1	97.2
Net Reach Loss(-)/Gain(+)	-2.0	-6.0	-3.1	-0.3	-2.1	+0.1	-2.8
Unimpaired Natural Flow @ Calpella (est.)	8.2	8.2	8.2	7.9	7.5	7.9	7.9
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## II. Lake Mendocino

### Reservoir Operations

Calculated Inflow (ac-ft)	199	175	195	212	205	189	209
(cfs)	100	88	98	107	103	95	105
Natural Flow	21	8	19	28	25	19	27
Import	80	80	80	79	78	76	78
Storage Change (ac-ft)	-53.0	-90.0	-71.0	-53.0	-72.0	-89.0	-71.0
(cfs)	-27	-45	-36	-27	-36	-45	-36
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)	23.6	28.9	30.0	26.8	28.9	30.0	32.1
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	115	119	119	120	125	125	125
Storage (Project Water)	15	31	21	13	22	30	20
Natural Flow	21	8	19	28	25	19	27
Import Water	80	80	80	79	78	76	78
<b>East Fork Min Instream Flow Requirement</b>	25	25	25	25	25	25	25
<b>Compliance Gage</b>	<i>Rvr mi.</i>						
CVD Release	99.9	115	119	119	120	125	125
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Total Pass-through Water	100	88	98	107	103	95	105
Project Water Release Required	No	No	No	No	No	No	No

## III. Upper Russian River Reach

<b>Minimum Instream Flow Requirement</b>	110	110	110	110	110	110	110
<b>Controlling Compliance Gage</b>							
Min Gage Flow	124	128	126	126	131	131	127
Controlling Gage	Talmage	Talmage	Talmage	Talmage	Talmage	Talmage	Talmage
<b>All Compliance Gages</b>							
	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	129	133	132	133	136	137
Talmage (USGS 11462080)	96.1	124	128	126	126	131	127
Hopland (USGS 11462500)	84.8	131	137	137	135	138	133
Cloverdale (USGS 11463000)	70.9	171	174	176	172	172	169
Geyserville (USGS 11463500)	54.4	224	221	221	219	215	212
Jimtown (USGS 11463682)	48.5	218	217	218	217	210	200
Digger Bend (USGS 11463980)	38.2	256	253	251	249	244	238
Healdsburg (USGS 11464000)	35.6	262	257	254	251	245	238
<b>Net Reach Loss(-)/Gain(+)</b>							
Forks - Talmage		-3	-5	-6	-6	-5	-10
Talmage - Hopland		+9	+9	+10	+9	+8	+6
Hopland - Cloverdale		+41	+39	+39	+36	+35	+33
Cloverdale - Jimtown		+44	+45	+43	+42	+40	+27
Jimtown - Digger Bend		+37	+36	+33	+32	+32	+37
Digger Bend - Healdsburg <i>*when Digger Bend &gt; 400 cfs, next u/s gage (Jimtown) used</i>		+6	+4	+3	+1	-1	-0
Upper Russian Net Reach Loss/Gain		+133	+127	+121	+115	+109	+94
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss(-)/Gain(+) to Controlling Gage		-3	-5	-6	-6	-5	-10
Storage (Project Water)		-3	-5	-6	-6	-5	-10
Pass-through Water (Nat. + Imp.) + Natural		0	0	0	0	0	0
Total Pass-through Water		100	88	98	107	103	105
Project Water Release Required		No	Yes	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).

	6/9/2023	6/10/2023	6/11/2023	6/12/2023	6/13/2023	6/14/2023	6/15/2023
<b>IV. Lake Sonoma</b>							
<b>Lake Sonoma</b>							
Storage Change (ac-ft)	-164.0	-164.0	-192.0	-218.0	-164.0	-164.0	-191.0
(cfs)	-83	-83	-97	-110	-83	-83	-96
Evaporation (ac-ft)	27.9	34.5	36.1	31.2	32.8	37.7	37.7
Inflow (Natural Flow)	27	31	17	1	29	31	20
WSD Release Gage	96	96	96	95	95	95	97
Storage (Project Water)	69	65	79	94	66	64	77
Natural Flow	27	31	17	1	29	31	20
<b>V. Lower Dry Creek Reach</b>							
<b>Minimum Instream Flow Requirement</b>	80	80	80	80	80	80	80
<b>Controlling Compliance Gage</b>							
Min Gage Flow	96	96	96	95	95	95	97
Controlling Gage	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release
<b>All Compliance Gages</b>							
	<i>Crk mi.</i>						
WSD Release	14.3	96	96	96	95	95	97
Yoakim (USGS 11465200)	11.1	103	103	103	103	103	102
Lambert (USGS 11465240)	6.8	106	106	106	106	105	105
Dry Crk Mouth (USGS 11465350)	0.1	115	114	112	112	110	108
<b>WSD to Russian River Confluence Reach Analysis</b>							
Total Pass-through Water	27	31	17	1	29	31	20
<b>Net Reach Loss(-)/Gain(+)</b>							
WSD - Yoakim	+7	+7	+7	+8	+8	+7	+6
Yoakim - Lambert	+3	+3	+3	+3	+2	+3	+2
Lambert - Dry Crk Mouth	+8	+8	+6	+6	+5	+4	+3
WSD - Dry Crk Mouth	+19	+18	+16	+16	+15	+14	+11
<b>WSD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss/Gain to Controlling Gage	+0	+0	+0	+0	+0	+0	+0
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VI. Russian River - Dry Creek Confluence</b>							
<b>Upper Russian River Flow (Healdsburg Gage)</b>							
L. Mendocino Project Water + Import Water	95	111	100	92	99	106	98
Natural Flow	154	136	140	143	134	119	121
<b>Dry Creek Flow (Mouth Gage)</b>							
L. Sonoma Project Water	69	65	79	94	66	64	77
Natural Flow	46	48	33	18	44	46	31
<b>Russian River d/s of Confluence Flow</b>	377	371	366	362	355	349	346
L. Mendocino Project Water + Import Water	95	111	100	92	99	106	98
L. Sonoma Project Water	69	65	79	94	66	64	77
Natural Flow	200	184	173	161	178	165	152
<b>VII. Lower Russian River Reach</b>							
<b>Minimum Instream Flow Requirement</b>	60	60	60	60	60	60	60
<b>Controlling Compliance Gage</b>							
Min Gage Flow	300	297	297	297	292	292	265
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
<b>All Compliance Gages</b>							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	393	390	389	387	378	374
Hacienda (USGS 11467000)	21.8	300	297	297	297	292	265
<b>Confluence to Windsor Reach Analysis</b>							
Net Reach Loss/Gain to Windsor Gage	+16	+19	+22	+24	+21	+24	+28
L. Mendocino Project Water + Import Water	95	111	100	92	99	106	98
L. Sonoma Project Water	65	62	75	90	62	60	74
Natural Flow	216	203	195	185	199	189	179
<b>Confluence to SCWA Wohler Production Facility Reach Analysis</b>							
<b>Approx. Flow u/s of Wohler</b>	381	383	367	371	366	358	338
Net Reach Loss(-)/Gain(+)	+4	+12	+1	+8	+11	+9	-8
L. Mendocino Project Water + Import Water	95	111	100	92	99	106	98
L. Sonoma Project Water	65	62	75	90	62	60	74
Natural Flow	204	196	174	169	189	173	144
<b>Confluence to Hacienda (Guerneville) Reach Analysis</b>							
Net Reach Loss(-)/Gain(+)	-77	-74	-69	-65	-63	-57	-81
L. Mendocino Project Water + Import Water	95	111	100	92	99	106	98
L. Sonoma Project Water	0	0	5	16	0	0	1
Natural Flow	188	172	174	169	178	167	144
<b>VIII. Water Production under Sonoma Water Water Rights (ac-ft)</b>							
<b>Lower Russian River</b>							
Sonoma Water Total	161.5	170.4	138.6	146.6	146.3	130.1	144.3
Wohler	71.5	68.9	52.8	60.4	71.1	59.2	63.4
Mirabel	90.0	101.4	85.7	86.2	75.2	71.0	80.9
Town of Windsor River Wellfield	7.4	7.3	6.9	7.9	7.9	7.9	7.5
Camp Meeker & Occidental	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Upper Russian River</b>							
City of Healdsburg							
Gauntlett & Fitch Mtn	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry Creek</b>							
City of Healdsburg							
Dry Creek Wellfield	0.0	0.0	0.0	0.0	0.0	0.0	0.0

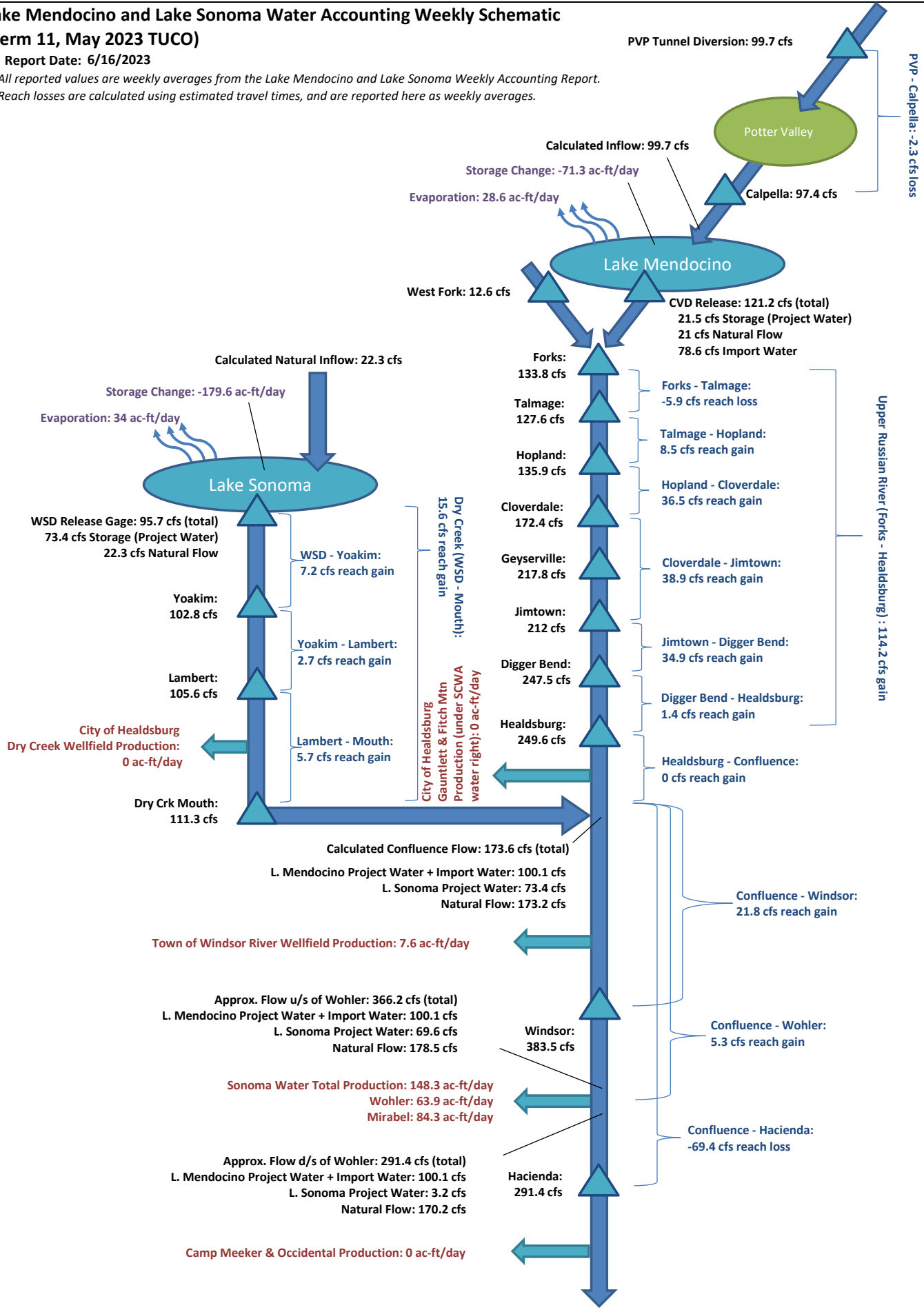
Notes:

- 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 11, May 2023 TUCO)

Report Date: 6/16/2023

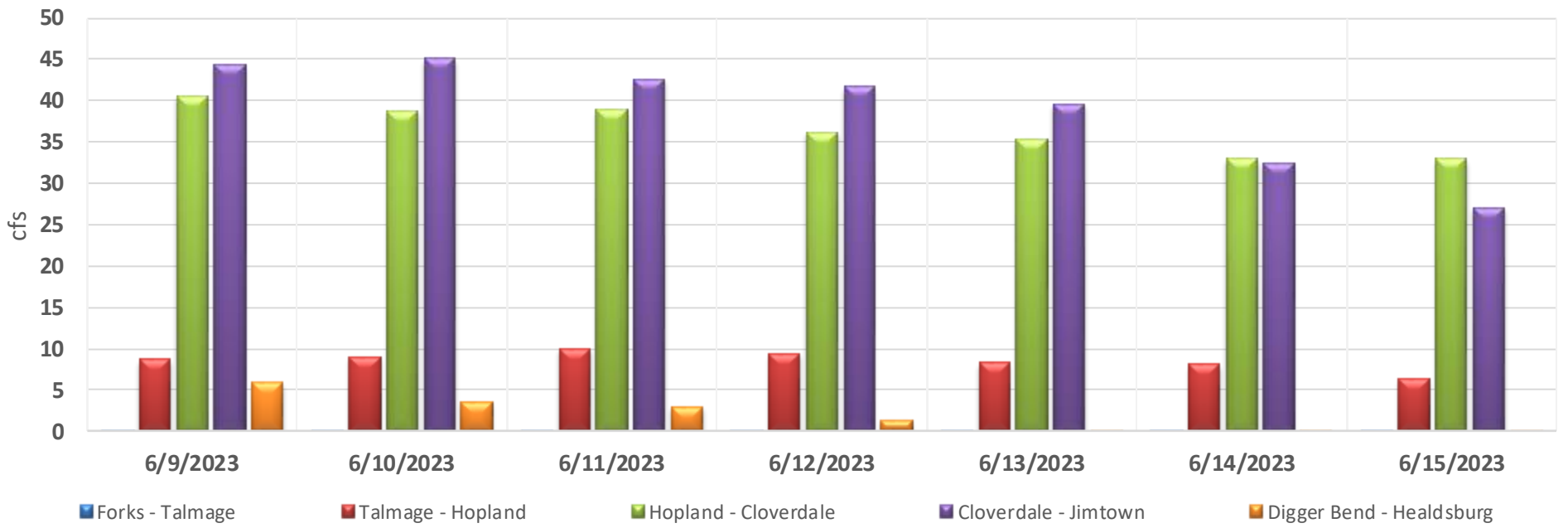
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.  
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



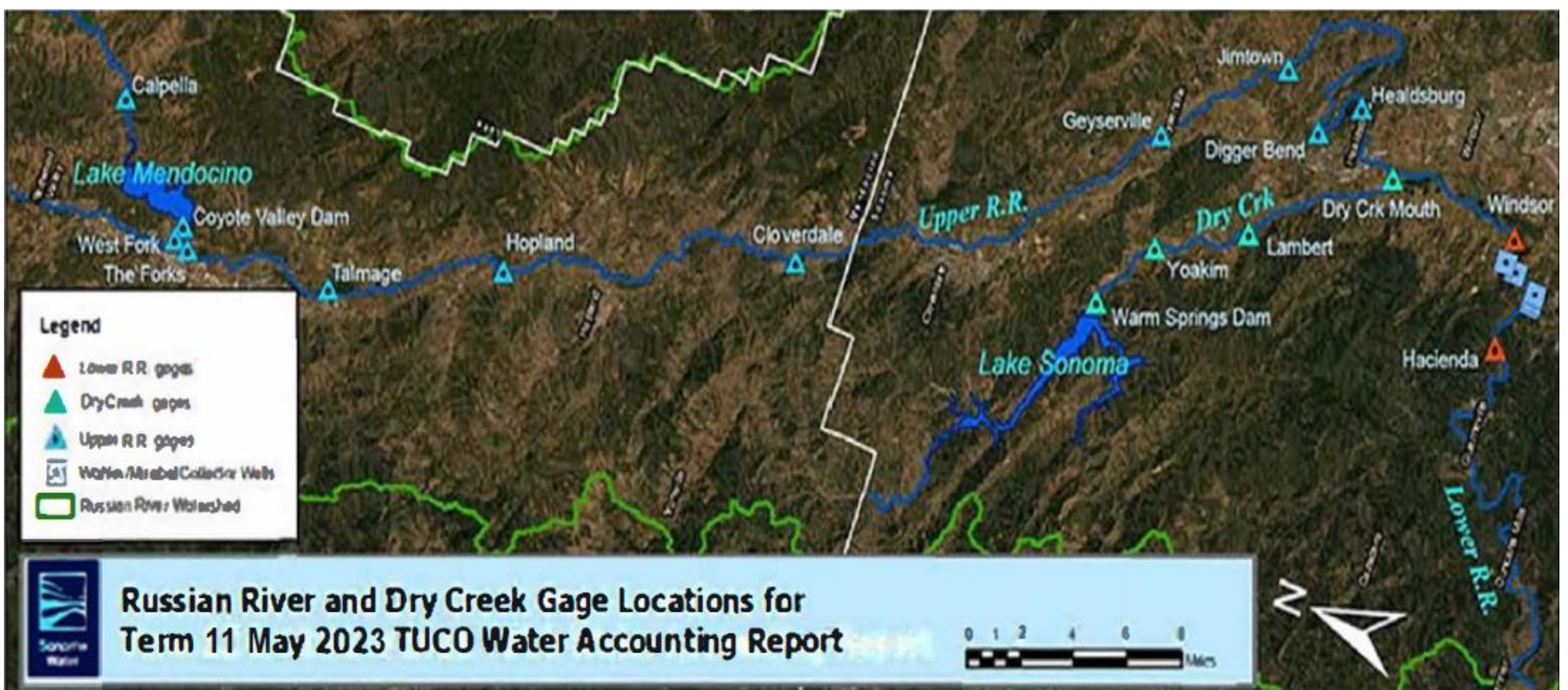
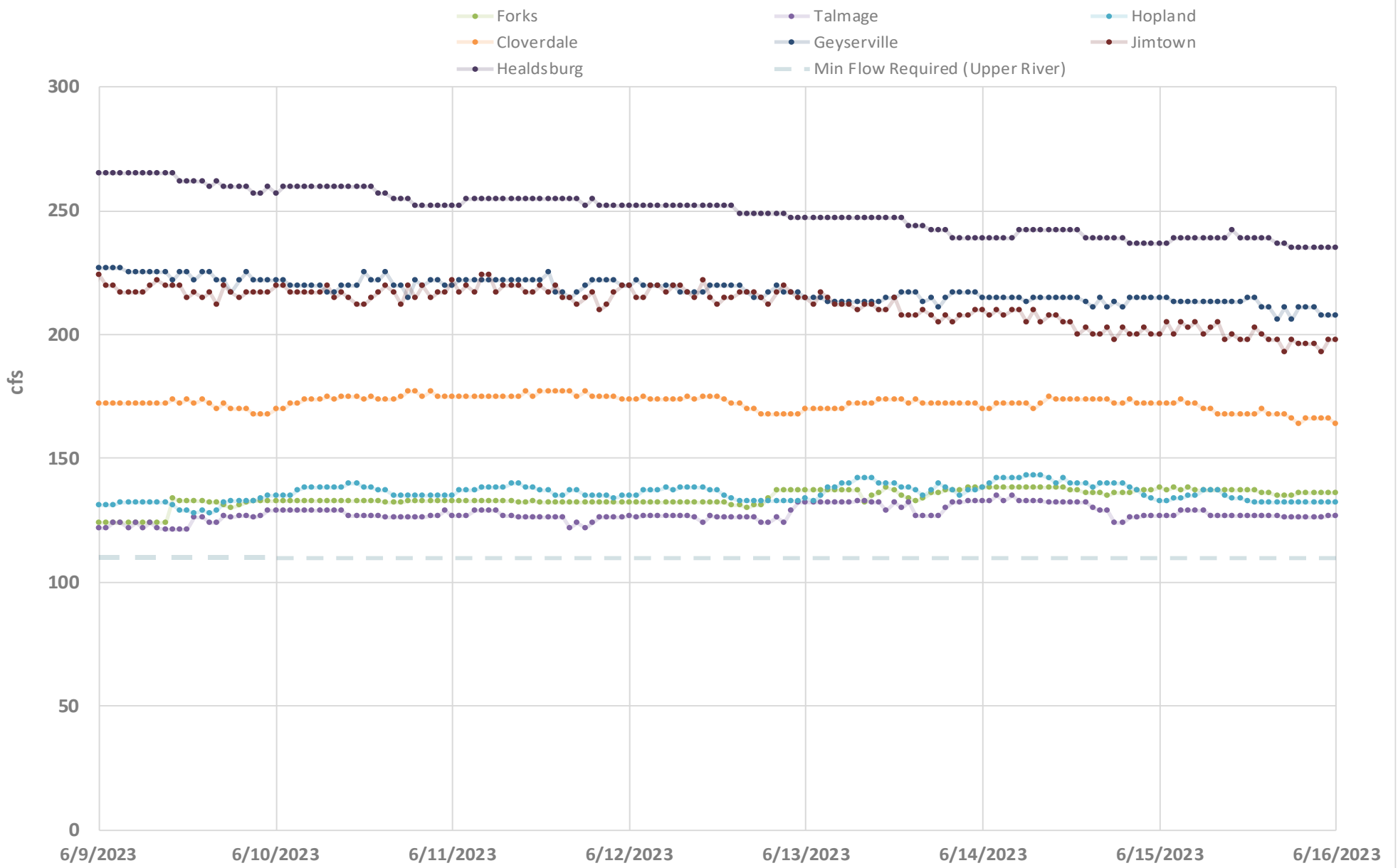
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## UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



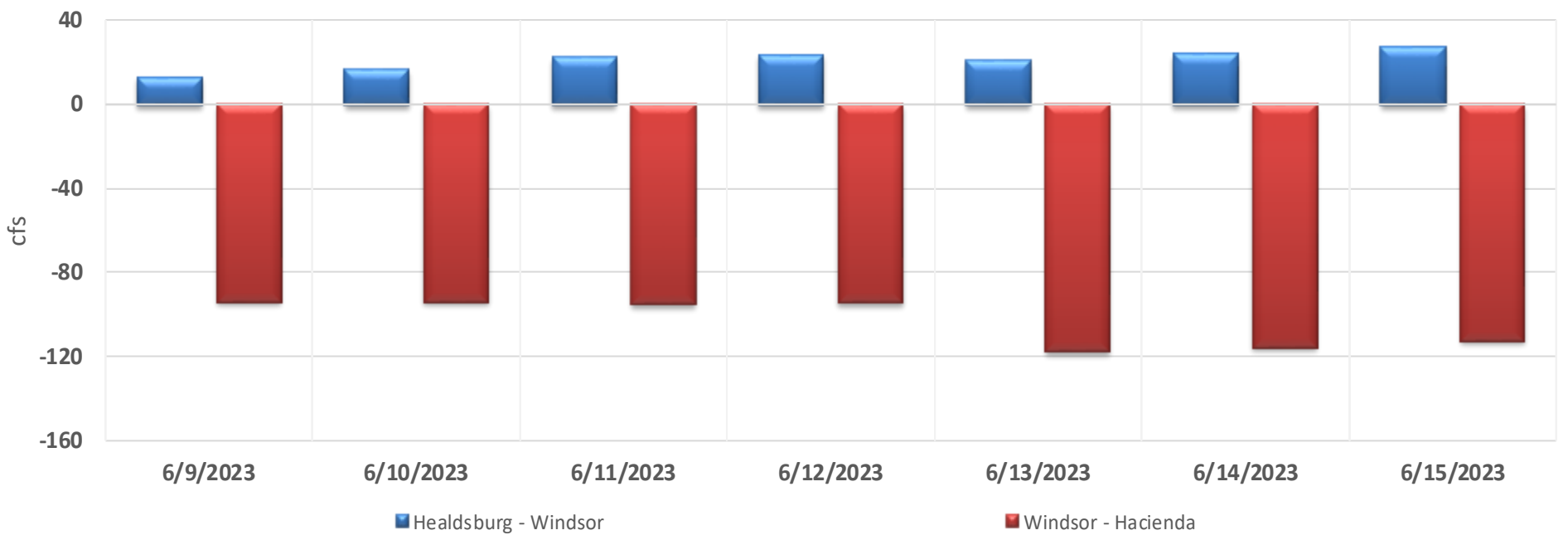
## UPPER RUSSIAN RIVER STREAM FLOWS



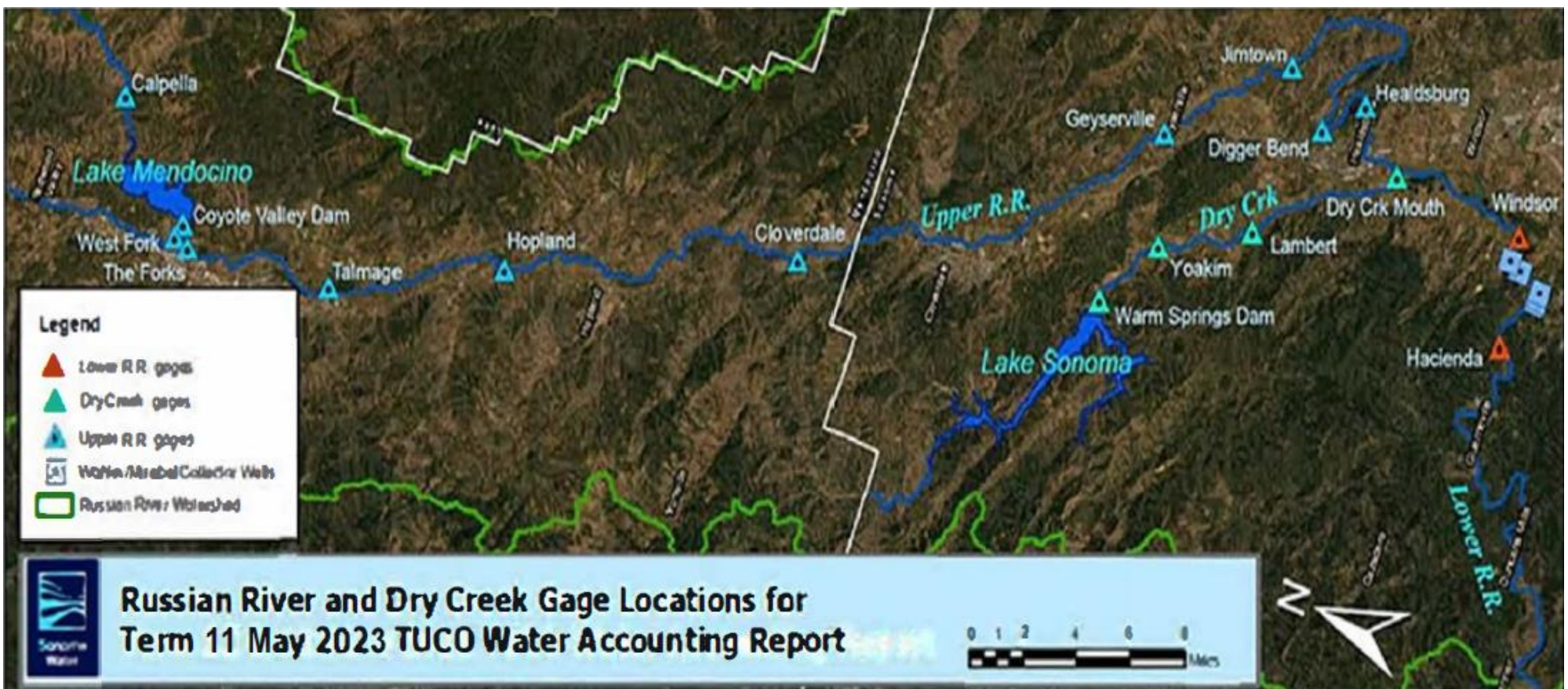
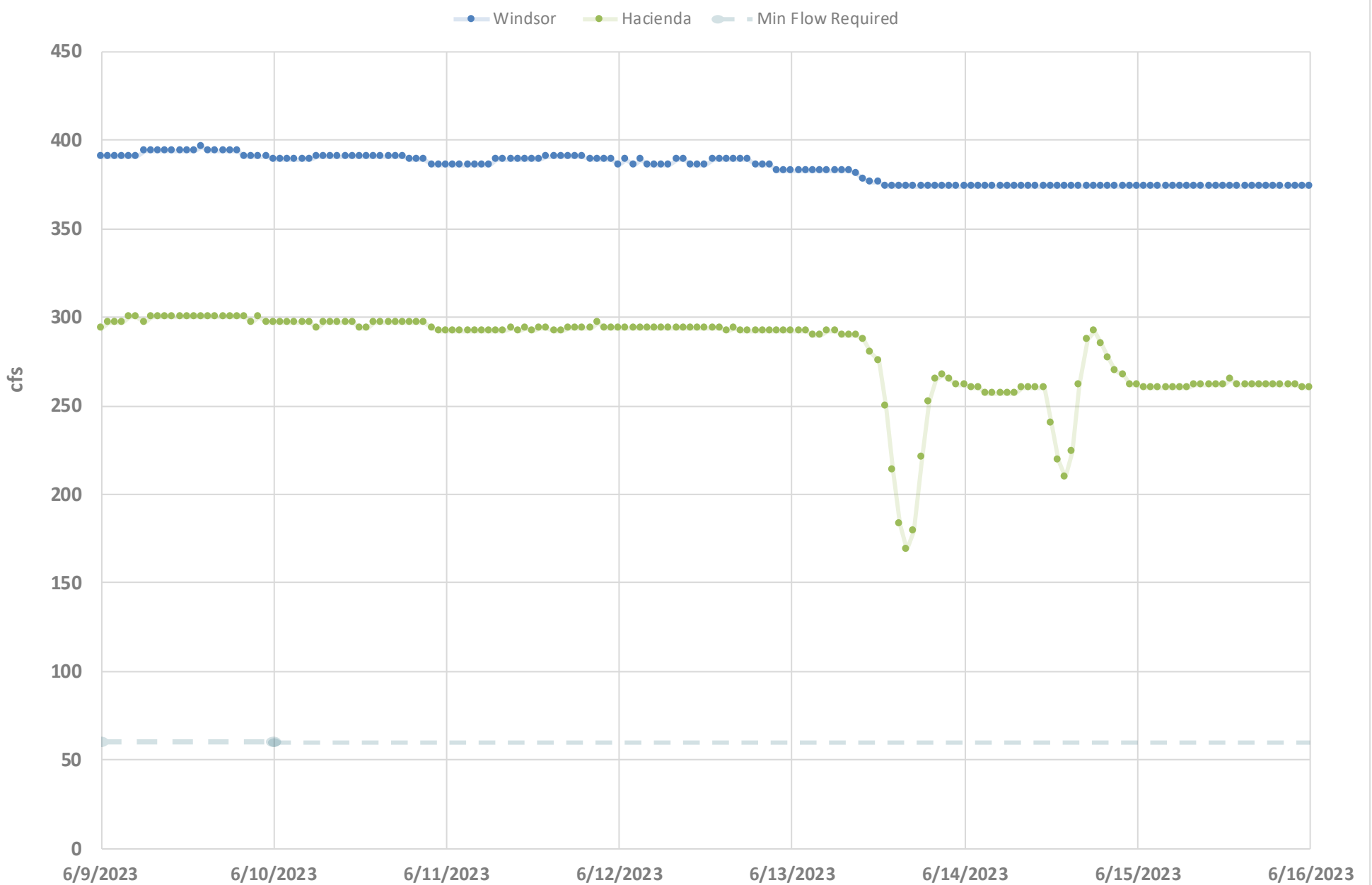
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## LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



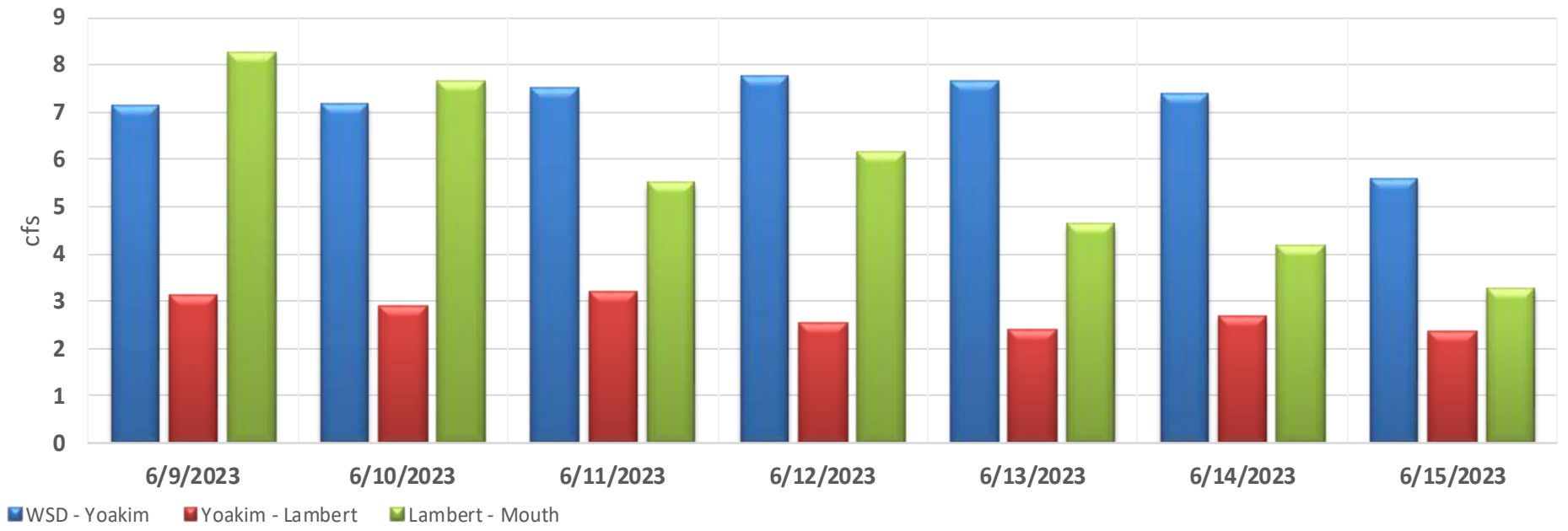
## LOWER RUSSIAN RIVER STREAM FLOWS



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



## DRY CREEK STREAM FLOWS

