

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

Report Date: 9/1/2023

Units are cfs unless noted otherwise

	8/25/2023	8/26/2023	8/27/2023	8/28/2023	8/29/2023	8/30/2023	8/31/2023
<b>I. Upper East Fork Reach</b>							
<b>Potter Valley Project</b>							
Tunnel Diversion	106.0	106.0	106.0	100.0	98.0	96.0	92.0
PVID Requested Delivery	25.0	25.0	25.0	21.7	17.6	16.0	12.4
PVID Canals Actual Delivery	24.9	24.9	24.2	19.2	15.8	15.7	11.8
East Fork Release	81.0	81.0	82.0	81.0	82.0	80.0	80.0
PVID E Fork Diversions	0.1	0.1	0.8	2.5	1.8	0.3	0.7
PVID Water Use - PG&E Contract	25.0	25.0	25.0	21.7	17.6	16.0	12.4
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)	80.9	80.9	81.2	78.5	80.2	79.7	79.3
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	89.9	94.1	96.5	98.0	88.9	87.9	91.1
Net Reach Loss(-)/Gain(+)	-16.1	-11.9	-9.5	-2.0	-9.1	-8.1	-0.9
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## II. Lake Mendocino

### Reservoir Operations

Calculated Inflow (ac-ft)	203	170	166	215	195	159	175
(cfs)	103	86	83	108	98	80	88
Natural Flow	22	5	2	30	18	0	9
Import	81	81	81	78	80	80	80
Storage Change (ac-ft)	-209.0	-244.0	-244.0	-192.0	-208.0	-244.0	-226.0
(cfs)	-105	-123	-123	-97	-105	-123	-114
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	30.9	30.8	32.0	28.4	28.4	26.0
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	193	193	191	189	189	189	189
Storage (Project Water)	90	107	107	81	91	109	101
Natural Flow	22	5	2	30	18	0	9
Import Water	81	81	81	78	80	80	80
<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	193	193	191	189	189	189
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Total Pass-through Water	103	86	83	108	98	80	88
Project Water Release Required	No	No	No	No	No	No	No

## III. Upper Russian River Reach

### Minimum Instream Flow Requirement

Minimum Instream Flow Requirement	110	110	110	110	110	110	110
<b>Controlling Compliance Gage</b>							
Min Gage Flow	133	134	137	142	135	132	134
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
<b>All Compliance Gages</b>							
	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	193	193	191	189	189	189
Talmage (USGS 11462080)	96.1	166	166	163	161	160	160
Hopland (USGS 11462500)	84.8	171	174	173	171	169	169
Cloverdale (USGS 11463000)	70.9	153	152	154	153	149	152
Geyserville (USGS 11463500)	54.4	147	146	149	148	141	143
Jimtown (USGS 11463682)	48.5	148	149	150	150	146	145
Digger Bend (USGS 11463980)	38.2	139	143	143	145	139	137
Healdsburg (USGS 11464000)	35.6	133	134	137	142	135	134
<b>Net Reach Loss(-)/Gain(+)</b>							
Forks - Talmage	-27	-27	-29	-28	-28	-29	-29
Talmage - Hopland	+5	+7	+9	+9	+10	+9	+9
Hopland - Cloverdale	-17	-20	-20	-19	-21	-19	-17
Cloverdale - Jimtown	-4	-4	-3	-4	-4	-5	-6
Jimtown - Digger Bend	-9	-6	-6	-6	-8	-8	-7
Digger Bend - Healdsburg <i>*when Digger Bend &gt; 400 cfs, next u/s gage (Jimtown) used</i>	-7	-7	-6	-3	-5	-5	-4
Upper Russian Net Reach Loss/Gain	-59	-56	-55	-51	-58	-57	-53
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-59	-56	-55	-51	-58	-57	-53
Storage (Project Water)	-59	-56	-55	-51	-58	-57	-53
Pass-through Water (Nat. + Imp.) + Natural	0	0	0	0	0	0	0
Total Pass-through Water	103	86	83	108	98	80	88
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).

**IV. Lake Sonoma**

**Lake Sonoma**

Storage Change (ac-ft)	-260.0	-261.0	-234.0	-260.0	-286.0	-234.0	-259.0
(cfs)	-131	-132	-118	-131	-144	-118	-131
Evaporation (ac-ft)	30.1	30.1	33.6	37.1	38.9	38.8	35.3
Inflow (Natural Flow)	0	0	7	0	0	10	0
WSD Release Gage	108	108	108	108	108	109	109
Storage (Project Water)	108	108	101	108	108	98	109
Natural Flow	0	0	7	0	0	10	0

**V. Lower Dry Creek Reach**

<b>Minimum Instream Flow Requirement</b>	80	80	80	80	80	80	80
<b>Controlling Compliance Gage</b>							
Min Gage Flow	89	91	94	92	91	90	90
Controlling Gage	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth
<b>All Compliance Gages</b>	<i>Crk mi.</i>						
WSD Release	14.3	108	108	108	108	109	109
Yoakim (USGS 11465200)	11.1	107	107	108	108	107	106
Lambert (USGS 11465240)	6.8	111	111	112	111	110	110
Dry Crk Mouth (USGS 11465350)	0.1	89	91	94	92	91	90
<b>WSD to Russian River Confluence Reach Analysis</b>							
Total Pass-through Water	0	0	7	0	0	10	0
<b>Net Reach Loss(-)/Gain(+)</b>							
WSD - Yoakim	-1	-1	+0	+0	-1	-2	-3
Yoakim - Lambert	+4	+4	+3	+3	+3	+3	+4
Lambert - Dry Crk Mouth	-22	-20	-18	-19	-20	-20	-21
WSD - Dry Crk Mouth	-19	-17	-14	-16	-18	-19	-20
<b>WSD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss/Gain to Controlling Gage	-19	-17	-14	-16	-18	-19	-20
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**VI. Russian River - Dry Creek Confluence**

<b>Upper Russian River Flow (Healdsburg Gage)</b>							
L. Mendocino Project Water + Import Water	133	134	137	142	135	132	134
Natural Flow	0	0	0	0	0	0	0
<b>Dry Creek Flow (Mouth Gage)</b>							
L. Sonoma Project Water	108	108	101	108	108	98	109
Natural Flow	0	0	0	0	0	0	0
<b>Russian River d/s of Confluence Flow</b>	222	225	230	234	226	222	223
L. Mendocino Project Water + Import Water	133	134	137	142	135	132	134
L. Sonoma Project Water	108	108	101	108	108	98	109
Natural Flow	0	0	0	0	0	0	0

**VII. Lower Russian River Reach**

<b>Minimum Instream Flow Requirement</b>	60	60	60	60	60	60	60
<b>Controlling Compliance Gage</b>							
Min Gage Flow	152	153	157	158	152	142	140
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
<b>All Compliance Gages</b>	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	248	249	251	252	249	244
Hacienda (USGS 11467000)	21.8	152	153	157	158	152	140
<b>Confluence to Windsor Reach Analysis</b>							
Net Reach Loss/Gain to Windsor Gage	+26	+24	+23	+17	+22	+23	+21
L. Mendocino Project Water + Import Water	133	134	137	142	135	132	134
L. Sonoma Project Water	103	103	96	103	103	93	103
Natural Flow	26	24	23	17	22	23	21
<b>Confluence to SCWA Wohler Production Facility Reach Analysis</b>							
<b>Approx. Flow u/s of Wohler</b>	223	245	235	254	249	235	223
Net Reach Loss(-)/Gain(+)	+1	+21	+4	+19	+23	+14	-0
L. Mendocino Project Water + Import Water	133	134	137	142	135	132	134
L. Sonoma Project Water	103	103	96	103	103	93	103
Natural Flow	1	21	4	19	23	14	0
<b>Confluence to Hacienda (Guerneville) Reach Analysis</b>							
Net Reach Loss(-)/Gain(+)	-70	-71	-74	-76	-74	-80	-83
L. Mendocino Project Water + Import Water	133	134	137	142	135	132	134
L. Sonoma Project Water	32	11	18	7	6	0	20
Natural Flow	1	21	4	19	23	13	0

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

<b>Lower Russian River</b>							
Sonoma Water Total	141.0	181.8	154.2	190.2	191.5	185.2	164.5
Wohler	58.1	76.3	65.0	65.2	66.3	75.9	79.3
Mirabel	82.9	105.5	89.3	125.0	125.2	109.3	85.3
Town of Windsor River Wellfield	10.0	9.9	10.0	10.4	10.4	10.7	11.7
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

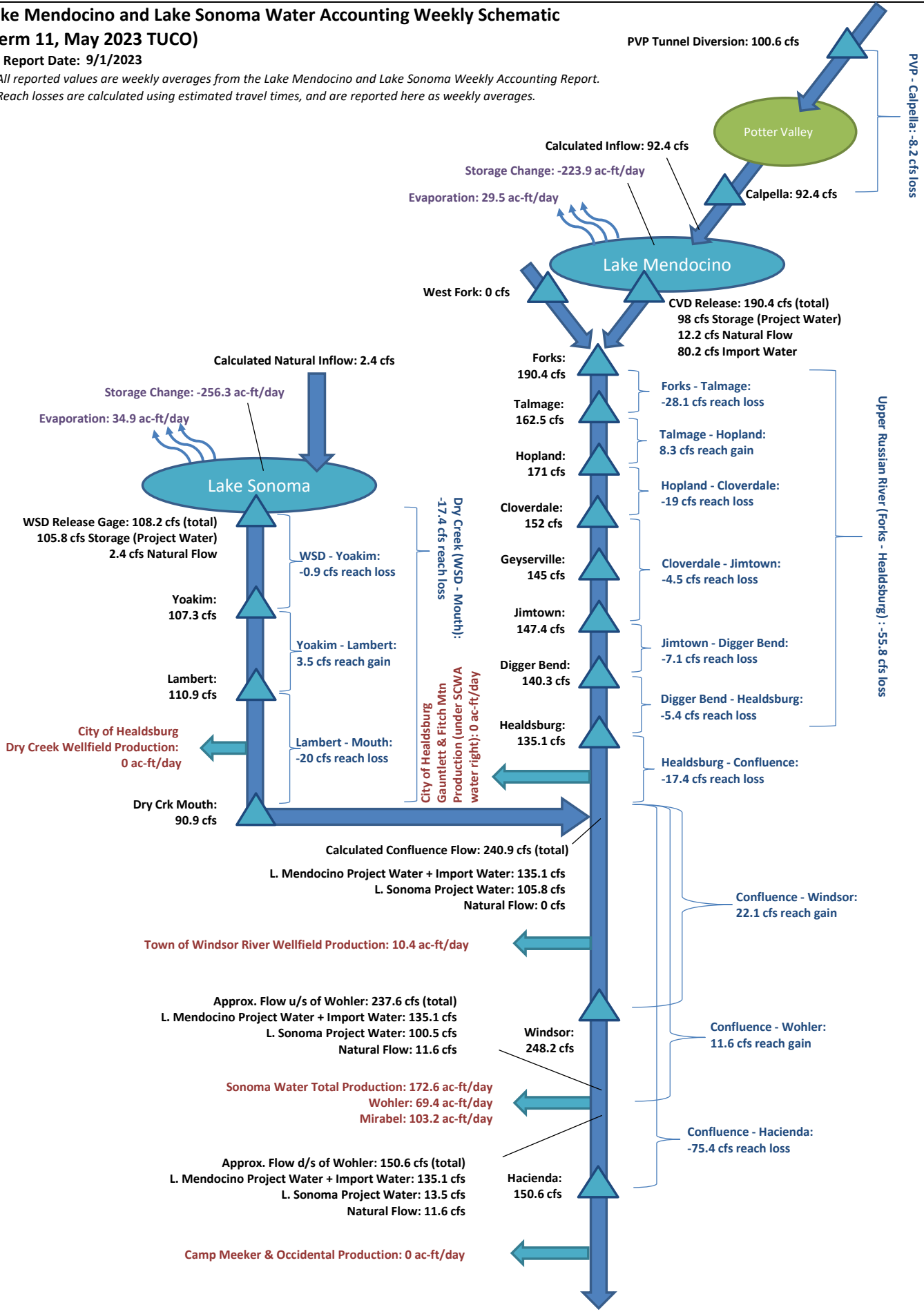
Notes:

- 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: 9/1/2023

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.

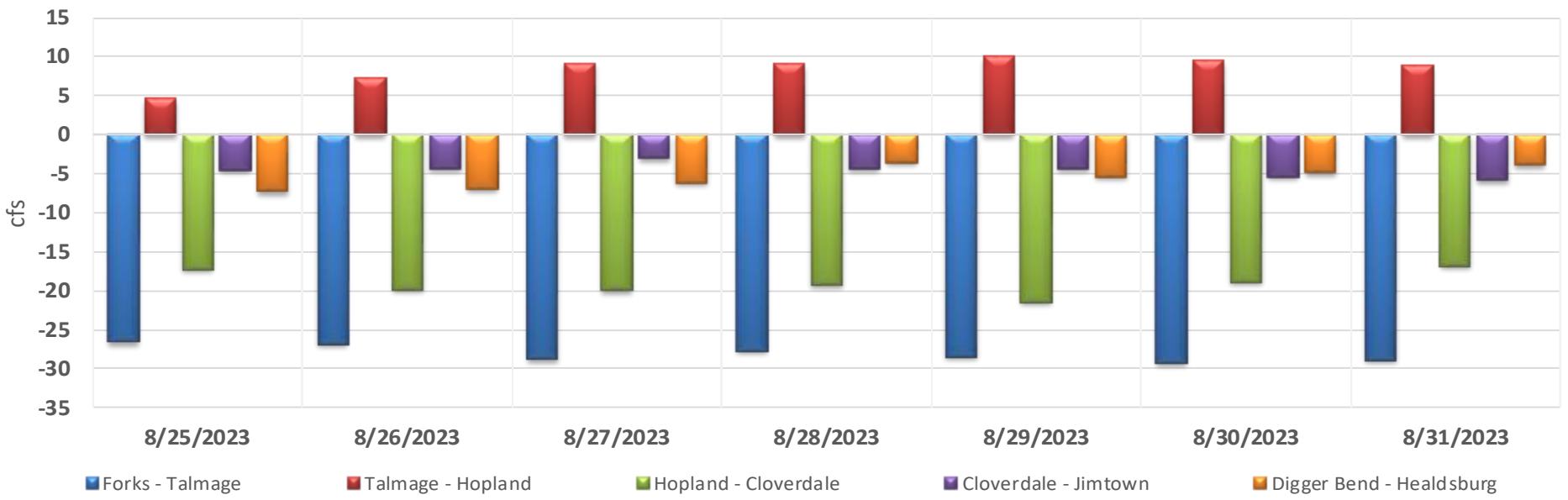




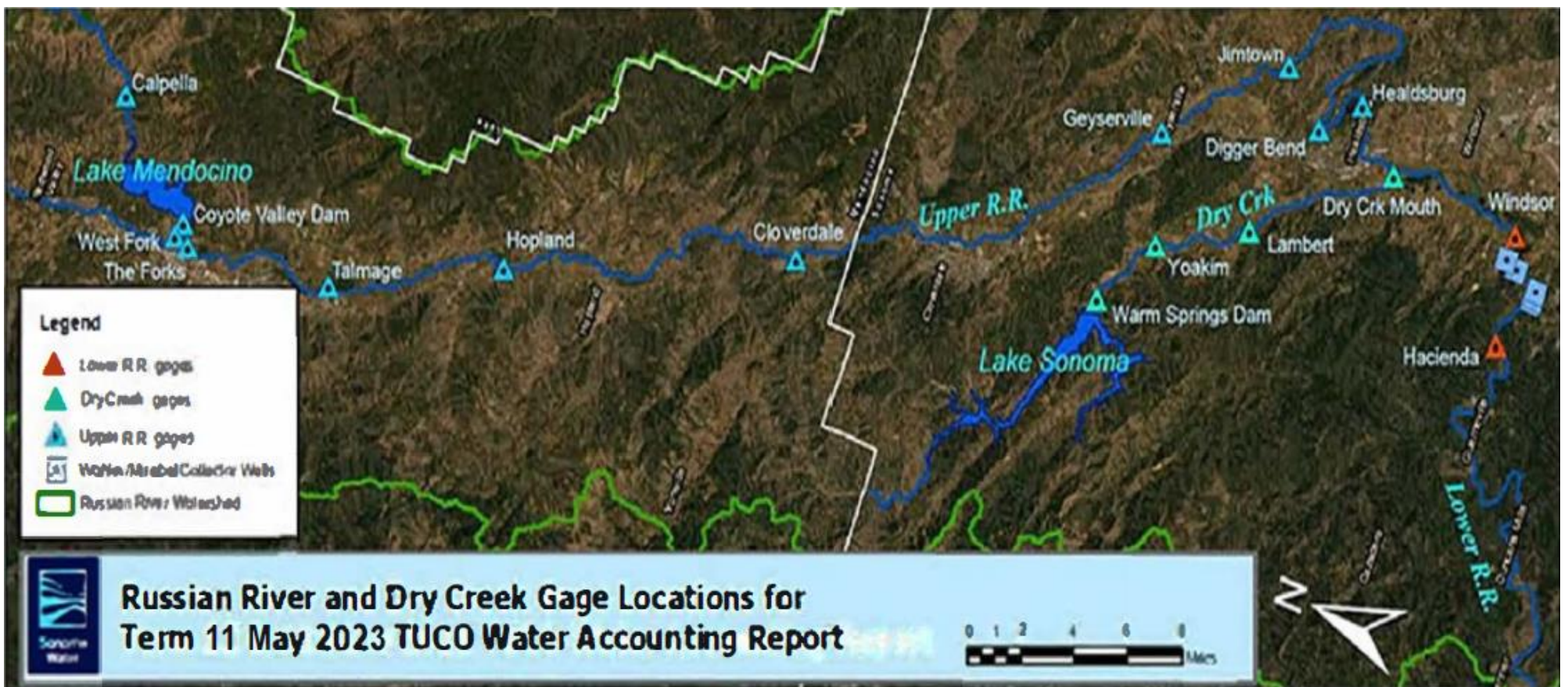
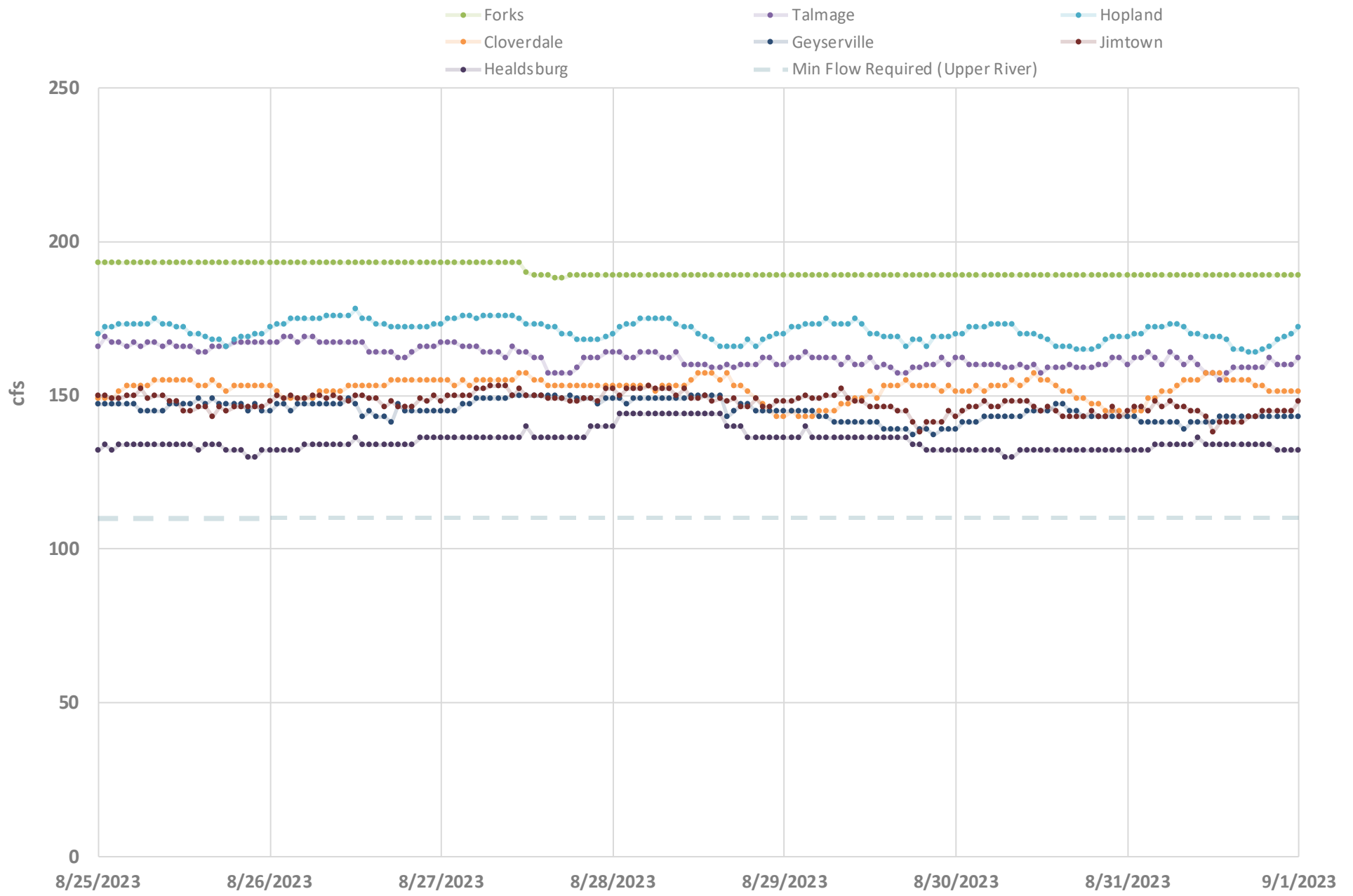
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## UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



## UPPER RUSSIAN RIVER STREAM FLOWS

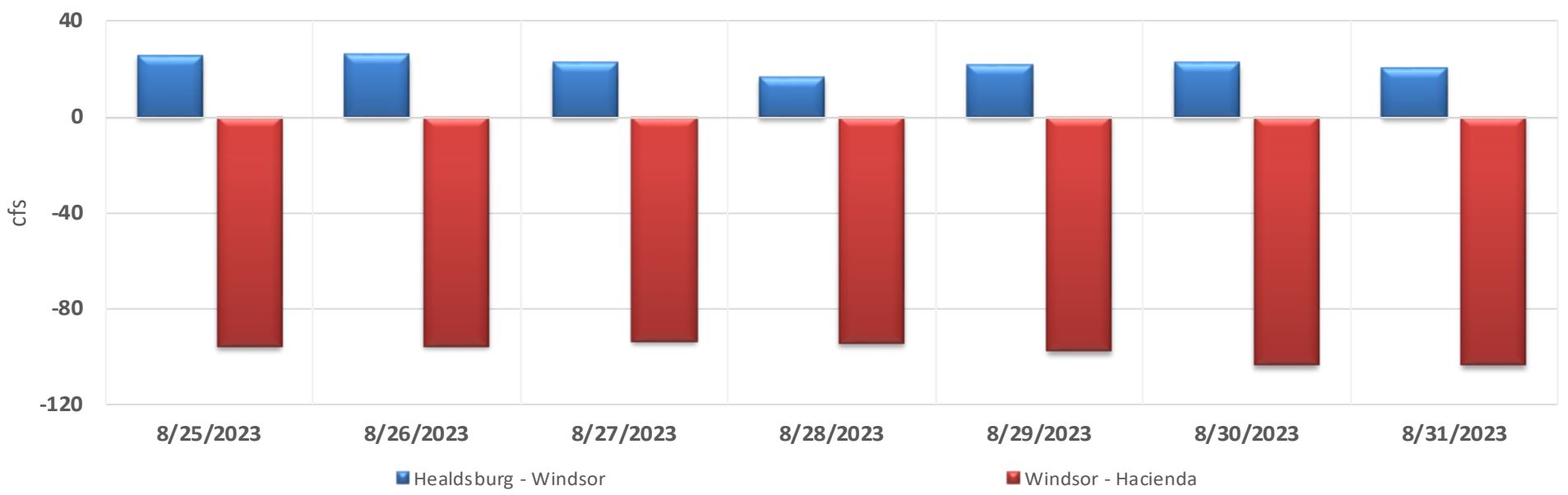




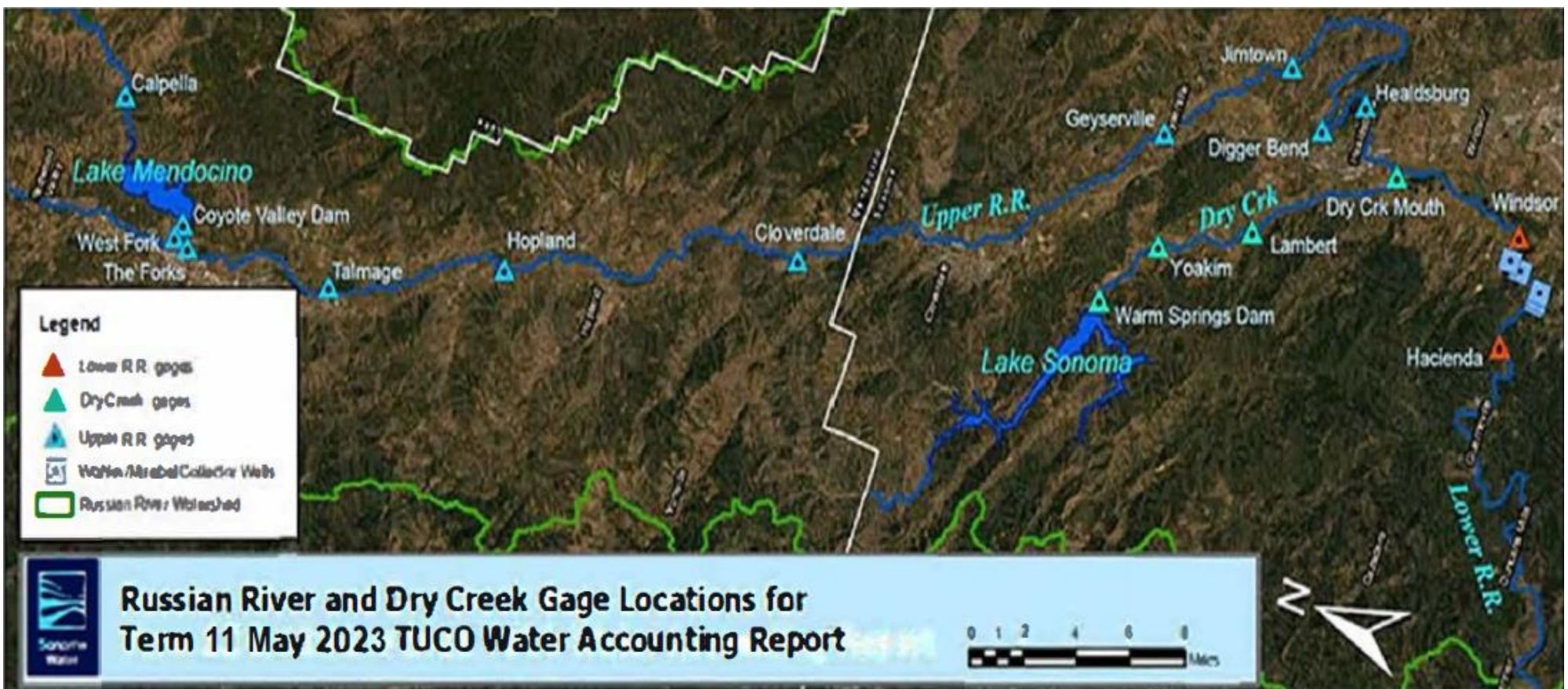
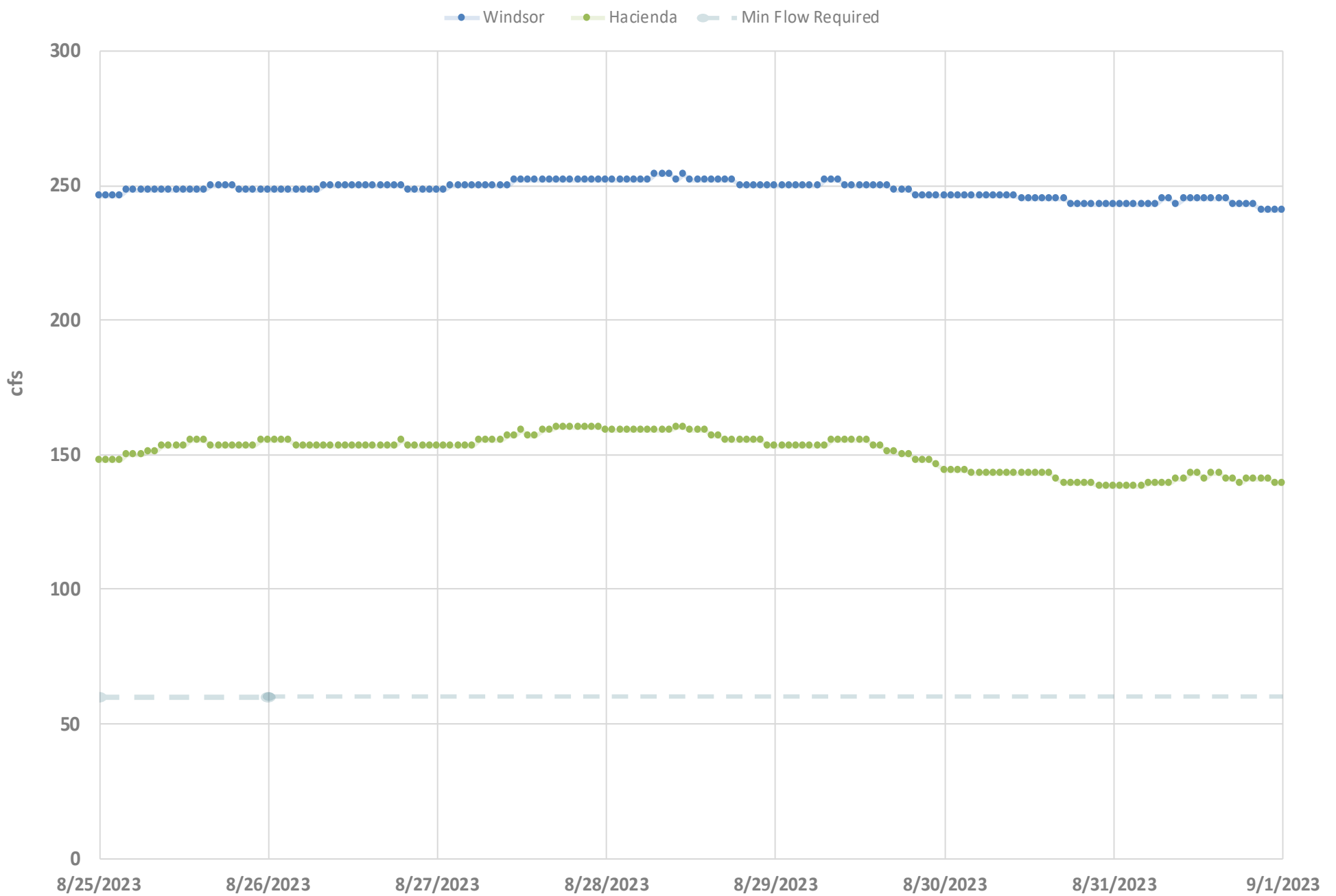
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## LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



## LOWER RUSSIAN RIVER STREAM FLOWS

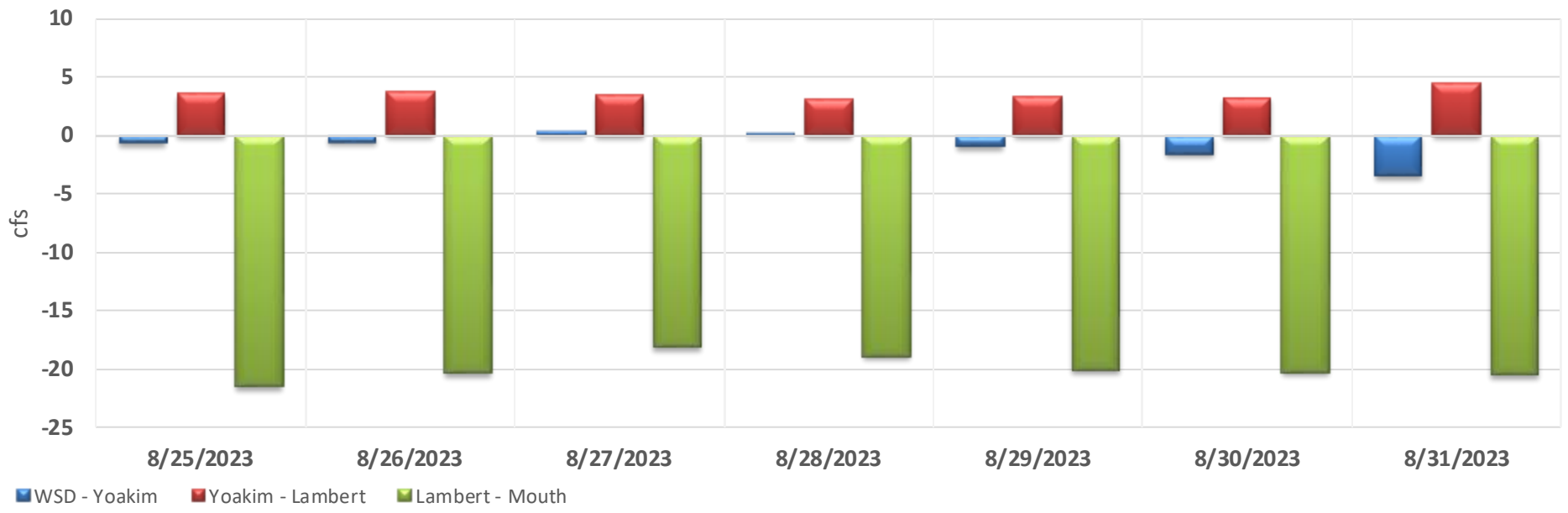




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## DRY CREEK NET REACH GAINS (+) / LOSSES (-)



## DRY CREEK STREAM FLOWS

