Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 7, October 2024 TUCO)

Report Date: 3/21/2025

Units are cfs unless noted otherwise

			3/14/2025	3/15/2025	3/16/2025	3/17/2025	3/18/2025	3/19/2025	3/20/2025
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			46.0	45.0	45.0	46.0	45.0	46.0	45.0
PVID Requested Delivery			5.0	5.0	5.0	5.0	5.0	5.0	5.0
PVID Canals Actual Delivery			1.7	1.5	1.9	1.8	1.5	1.5	1.5
East Fork Release			44.0	44.0	43.0	44.0	44.0	45.0	44.0
PVID E Fork Diversions			3.3	3.5	3.1	3.2	3.5	3.5	3.5
PVID Water Use - PG&E Contract			5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)			40.7	40.5	39.9	40.8	40.5	41.5	40.5
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			454.9	522.2	700.1	983.0	580.6	405.4	374.5
Net Reach Loss(-)/Gain(+)			+408.9	+477.2	+655.1	+937.0	+535.6	+359.4	+329.5
Unimpaired Natural Flow @ Calpella (est.)			177.3	232.6	269.1	462.3	254.6	161.2	138.3
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)			1,086	997	1,455	2,188	1,119	808	716
(cfs)			547	503	734	1,103	564	407	361
Natural Flow			506	463	694	1,062	524	366	321
Import			41	40	40	41	40	41	40
Storage Change (ac-ft)			+876.0	+789.0	+1,248.0	+1,990.0	+918.0	+601.0	+513.0
(cfs)			+442	+398	+629	+1,003	+463	+303	+259
Stored Natural Flow (cfs)			442	398	629	1,003	463	303	259
Stored Import Water (cfs)			0	0	0	0	0	0	0
Evaporation (ac-ft)			9.8	3.9	3.9	4.9	6.9	12.9	8.9
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			101	103	102	97	98	98	98
Storage (Project Water)			0	0	0	0	0	0	0
Natural Flow			62	64	63	58	60	60	60
Import Water			39	39	39	40	38	38	38
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	101	103	102	97	98	98	98
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			101	103	102	97	98	98	98
Project Water Release Required			No	No	No	No	No	No	No
III. Upper Russian River Reach									
Minimum Instream Flow Requirement			150	150	150	150	150	150	150
Controlling Compliance Gage									
Min Gage Flow			539	755	765	1,402	808	532	474
Controlling Gage			Forks	Forks	Forks	Forks	Forks	Forks	Forks
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	539	755	765	1,402	808	532	474
Talmage	(USGS 11462080)	*96.1*	898	1,328	1,219	2,563	1,535	988	840
Hopland	(USGS 11462500)	*84.8*	942	1,708	1,353	3,133	2,065	1,335	1,122
Cloverdale	(USGS 11463000)	*70.9*	1,218	2,304	2,413	4,742	3,288	2,152	1,768
Geyserville	(USGS 11463500)	*54.4*	1,406	2,920	3,039	8,029	5,326	3,450	2,761
Jimtown	(USGS 11463682)	*48.5*	1,378	2,619	2,742	7,170	5,360	3,495	2,759
Digger Bend	(USGS 11463980)	*38.2*	>400 cfs	>400 cfs	>400 cfs	>400 cfs	>400 cfs	>400 cfs	>400 cfs
Healdsburg	(USGS 11464000)	*35.6*	1,646	2,818	3,098	8,877	6,650	4,406	3,470
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			+460	+510	+614	+1,094	+646	+441	+354
Talmage - Hopland			+174	+296	+306	+522	+427	+325	+266
Hopland - Cloverdale			+511	+473	+1,213	+1,719	+1,030	+750	+611
Cloverdale - Jimtown			+461	+327	+893	+2,554	+1,613	+1,131	+897
Jimtown - Digger Bend			n/d	n/d	n/d	n/d	n/d	n/d	n/d
Digger Bend - Healdsburg **when Digger Bend > 400 cfs, next u/s gage (Jimtown) used*			+318	+263	+545	+1,844	+1,107	+804	+670
Upper Russian Net Reach Loss/Gain			+1,925	+1,869	+3,571	+7,732	+4,823	+3,450	+2,798
CVD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss(-)/Gain(+) to Controlling Gage			+0	+0	+0	+0	+0	+0	+0
Storage (Project Water)			0	0	0	0	0	0	0
Pass-through Water (Nat. + Imp.) + Natural			0	0	0	0	0	0	0
Total Pass-through Water			101	103	102	97	98	98	98
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).

			3/14/2025	3/15/2025	3/16/2025	3/17/2025	3/18/2025	3/19/2025	3/20/2025
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			+690.0	+193.0	+2,050.0	+2,674.0	+1,204.0	+758.0	+0.0
(cfs)			+348	+97	+1,034	+1,348	+607	+382	+0
Evaporation (ac-ft)			7.7	4.6	7.8	11.0	8.9	11.0	14.2
Inflow (Natural Flow)			702	449	1,387	1,703	961	737	535
WSD Release Gage			350	349	350	349	349	349	528
Storage (Project Water)			0	0	0	0	0	0	0
Natural Flow			350	349	350	349	349	349	528
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			75	75	75	75	75	75	75
Controlling Compliance Gage									
Min Gage Flow			350	349	350	349	349	349	528
Controlling Gage			WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release
All Compliance Gages		*Crk mi.*							
WSD Release		*14.3*	350	349	350	349	349	349	528
Yoakim	(USGS 11465200)	*11.1*	463	477	603	827	631	560	708
Lambert	(USGS 11465240)	*6.8*	452	452	547	826	616	538	619
Dry Crk Mouth	(USGS 11465350)	*0.1*	602	571	797	1,075	834	709	718
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			350	349	350	349	349	349	528
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+113	+128	+252	+479	+283	+211	+202
Yoakim - Lambert			-8	-26	-31	-15	-21	-23	-74
Lambert - Dry Crk Mouth			+162	+113	+302	+230	+200	+165	+137
WSD - Dry Crk Mouth			+267	+215	+523	+694	+461	+353	+266
WSD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss/Gain to Controlling Gage			+0	+0	+0	+0	+0	+0	+0
Project Water Release Required			No	No	No	No	No	No	No
VI. Russian River - Dry Creek Confluence									
Upper Russian River Flow (Healdsburg Gage)									
L. Mendocino Project Water + Import Water			39	39	39	40	38	38	38
Natural Flow			1,987	1,933	3,635	7,790	4,882	3,510	2,858
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			602	571	797	1,075	834	709	718
Russian River d/s of Confluence Flow			2,248	3,390	3,895	9,951	7,483	5,115	4,187
L. Mendocino Project Water + Import Water			39	39	39	40	38	38	38
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			2,589	2,504	4,432	8,864	5,716	4,219	3,576
VII. Lower Russian River Reach									
Minimum Instream Flow Requirement			125	125	125	125	125	125	125
Controlling Compliance Gage									
Min Gage Flow			2,246	3,207	3,703	9,062	10,261	6,972	5,089
Controlling Gage			Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages		*Rvr mi.*							
Windsor	(USGS 11465390)	*26.6*	*n/d*	*n/d*	*n/d*	*n/d*	*n/d*	*n/d*	*n/d*
Hacienda	(USGS 11467000)	*21.8*	2,246	3,207	3,703	9,062	10,261	6,972	5,089
Confluence to Windsor Reach Analysis									
Net Reach Loss/Gain to Windsor Gage			-	-	-	-	-	-	-
L. Mendocino Project Water + Import Water			-	-	-	-	-	-	-
L. Sonoma Project Water			-	-	-	-	-	-	-
Natural Flow			-	-	-	-	-	-	-
Confluence to SCWA Wohler Production Facility Reach Analysis									
Approx. Flow u/s of Wohler			2,270	3,243	3,743	9,101	10,295	7,013	5,128
Net Reach Loss(-)/Gain(+)			+22	-147	-152	-850	+2,812	+1,898	+940
L. Mendocino Project Water + Import Water			39	39	39	40	38	38	38
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			2,611	2,357	4,279	8,014	8,528	6,118	4,516
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			-2	-183	-192	-890	+2,778	+1,857	+902
L. Mendocino Project Water + Import Water			39	39	39	40	38	38	38
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			2,588	2,321	4,240	7,975	8,494	6,076	4,478
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			47.4	71.4	78.2	77.4	67.9	82.0	76.2
Wohler			12.9	30.4	40.8	2.2	19.4	37.6	28.8
Mirabel			34.5	41.0	37.3	75.2	48.5	44.4	47.5
Town of Windsor River Wellfield			3.4	2.8	3.0	3.6	3.3	3.1	3.3
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

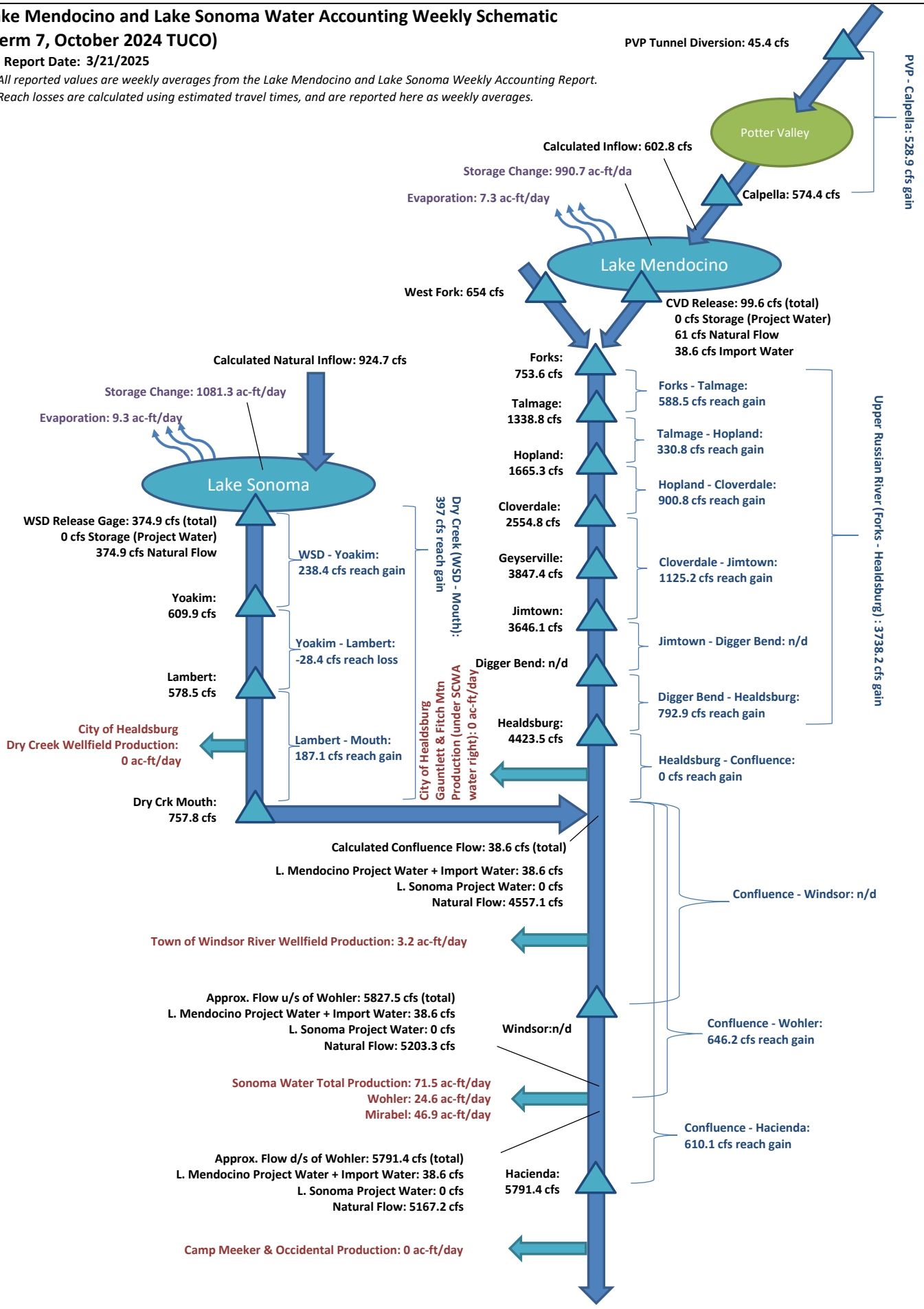
Notes:

- 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 7, October 2024 TUCO)

Report Date: 3/21/2025

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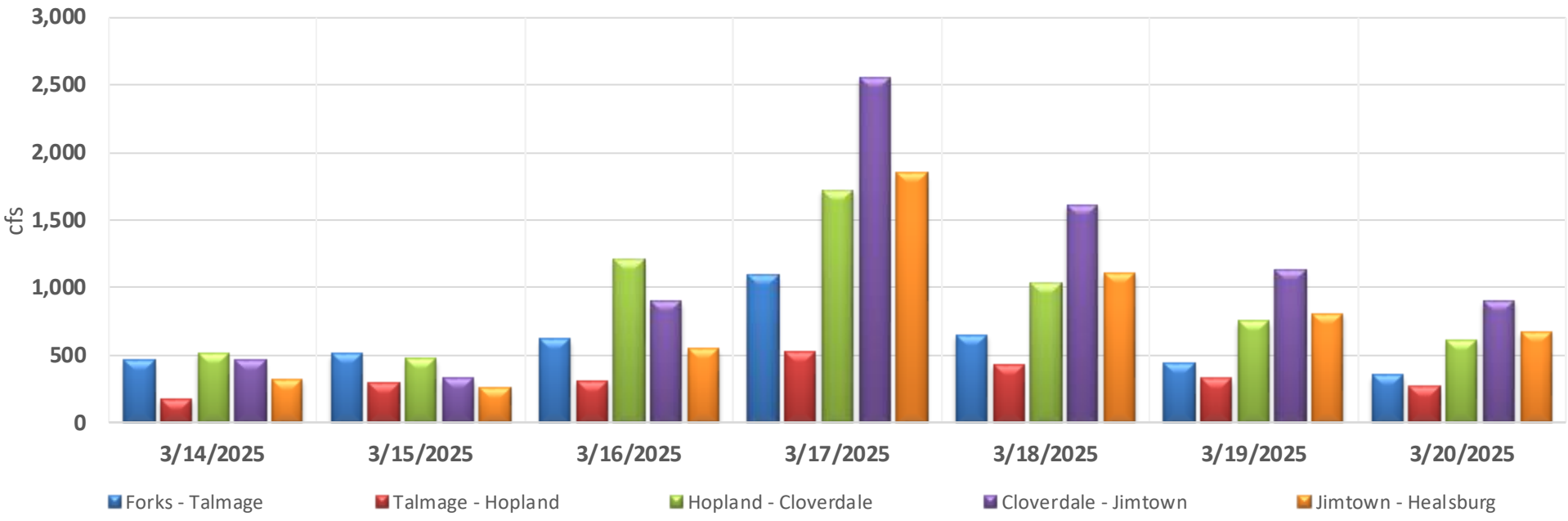
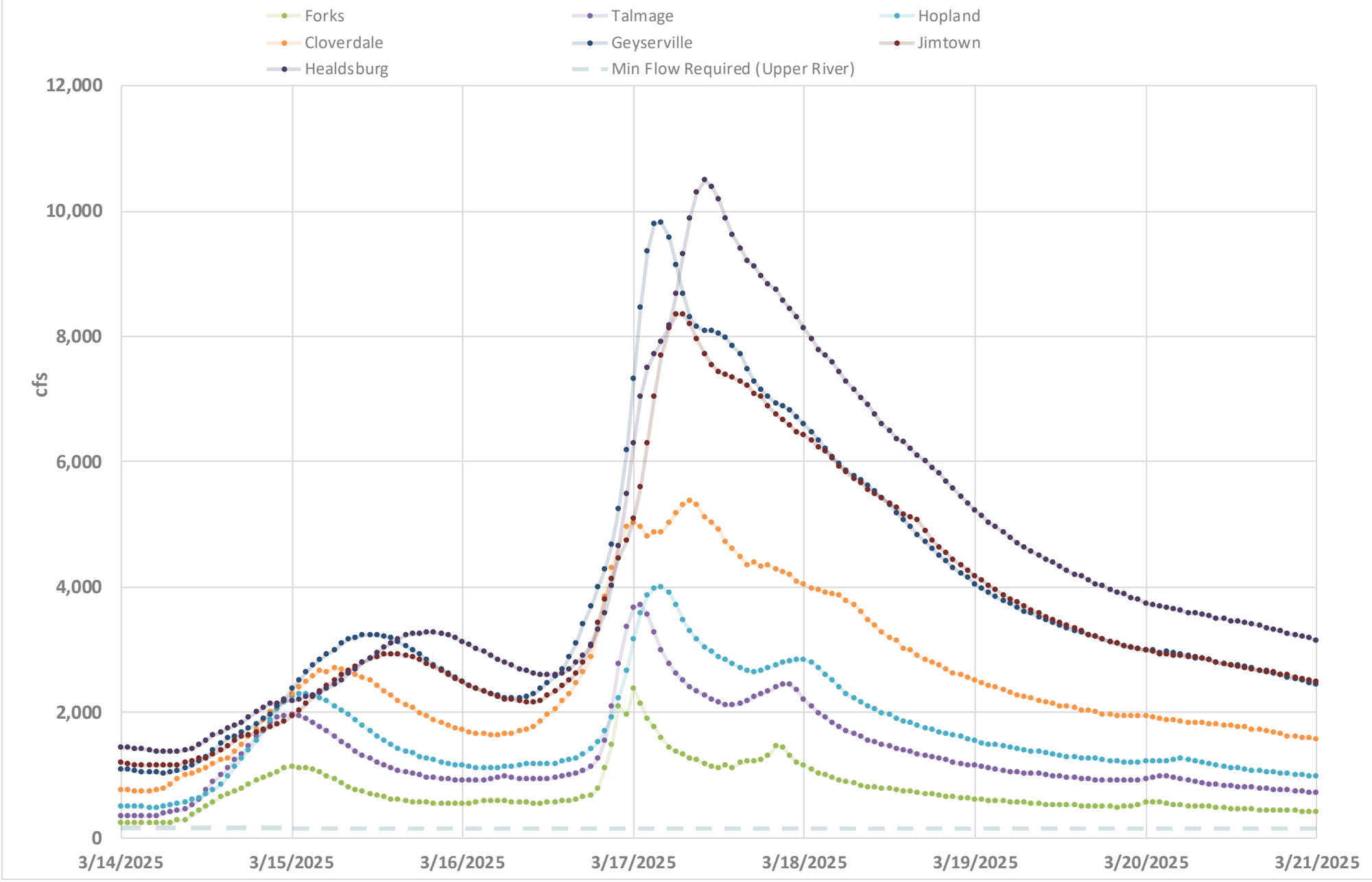
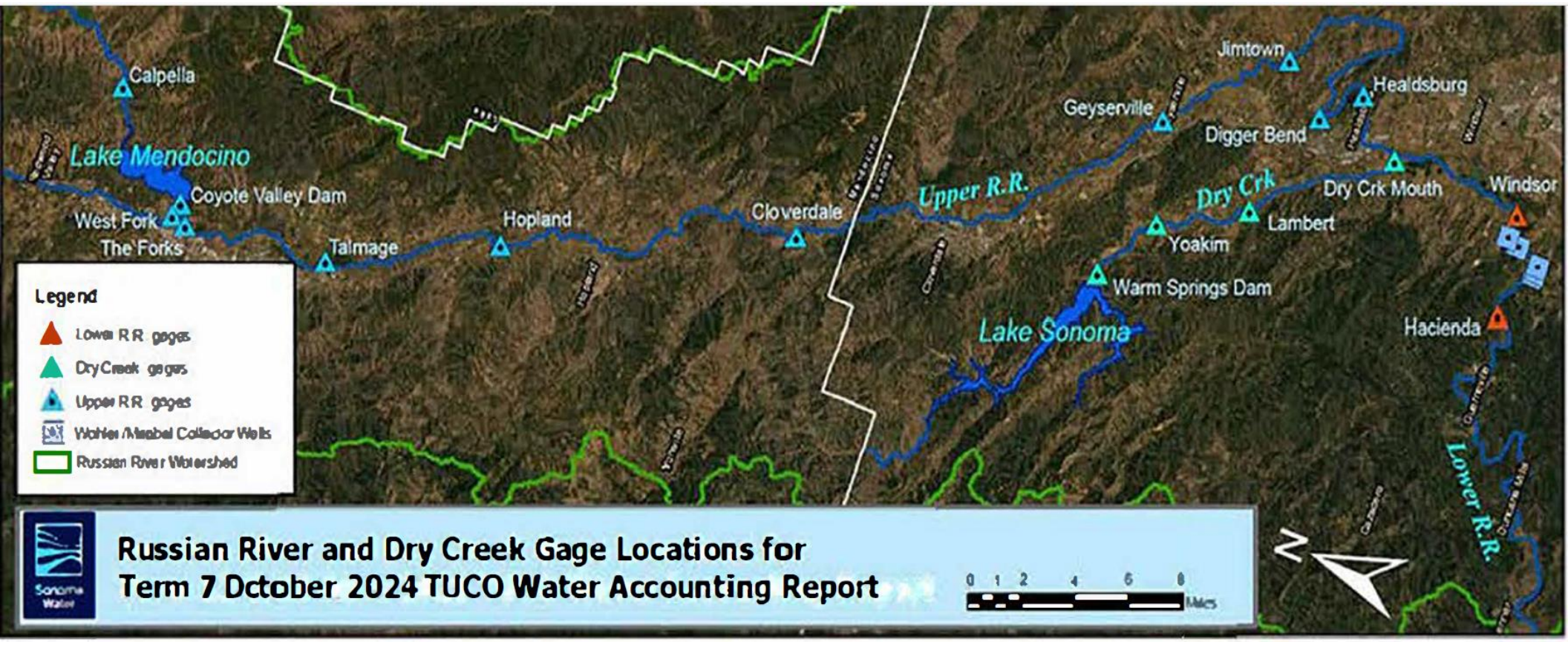
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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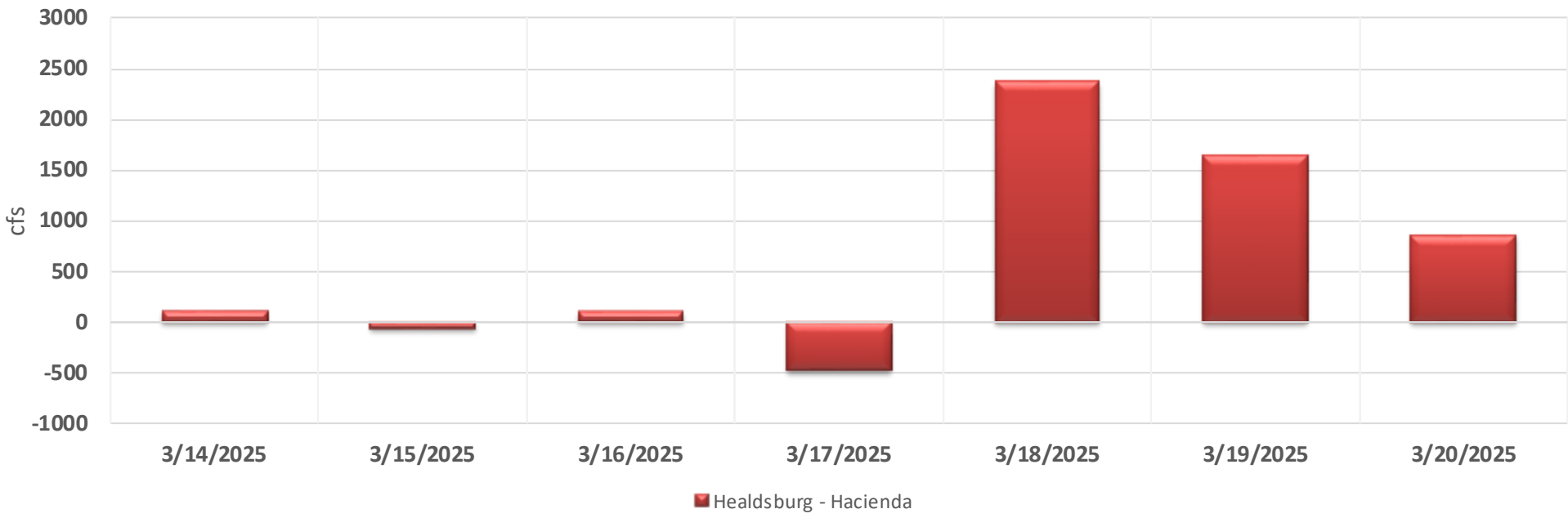
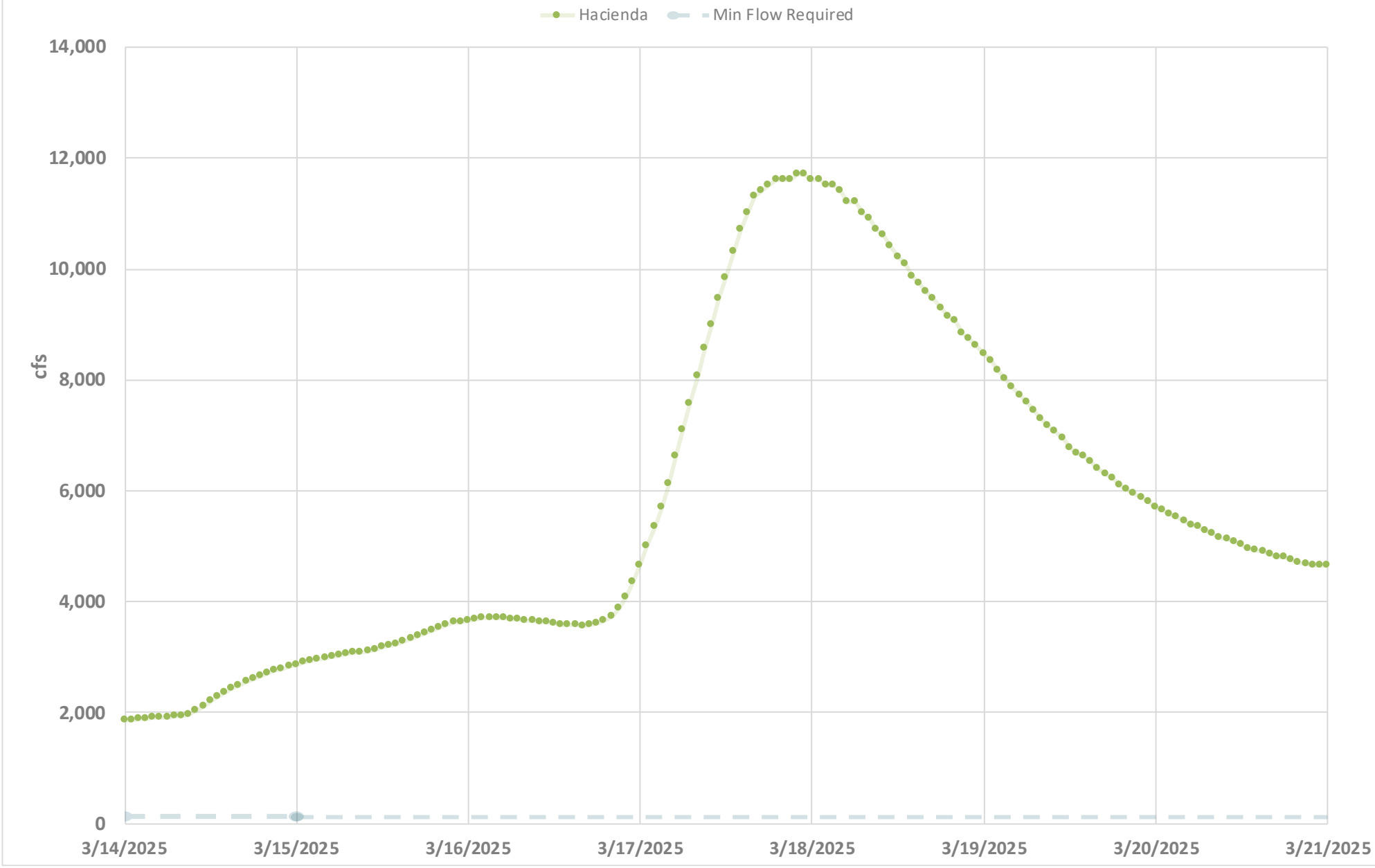
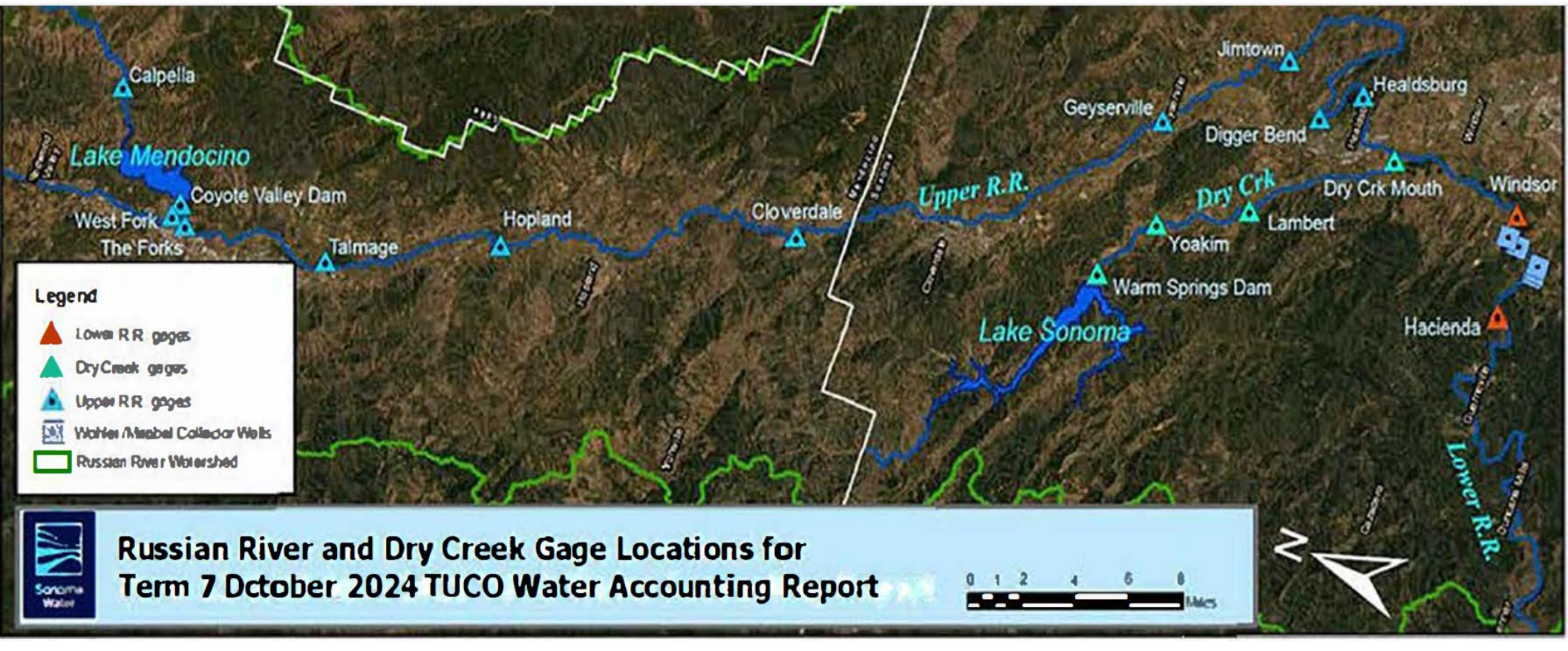
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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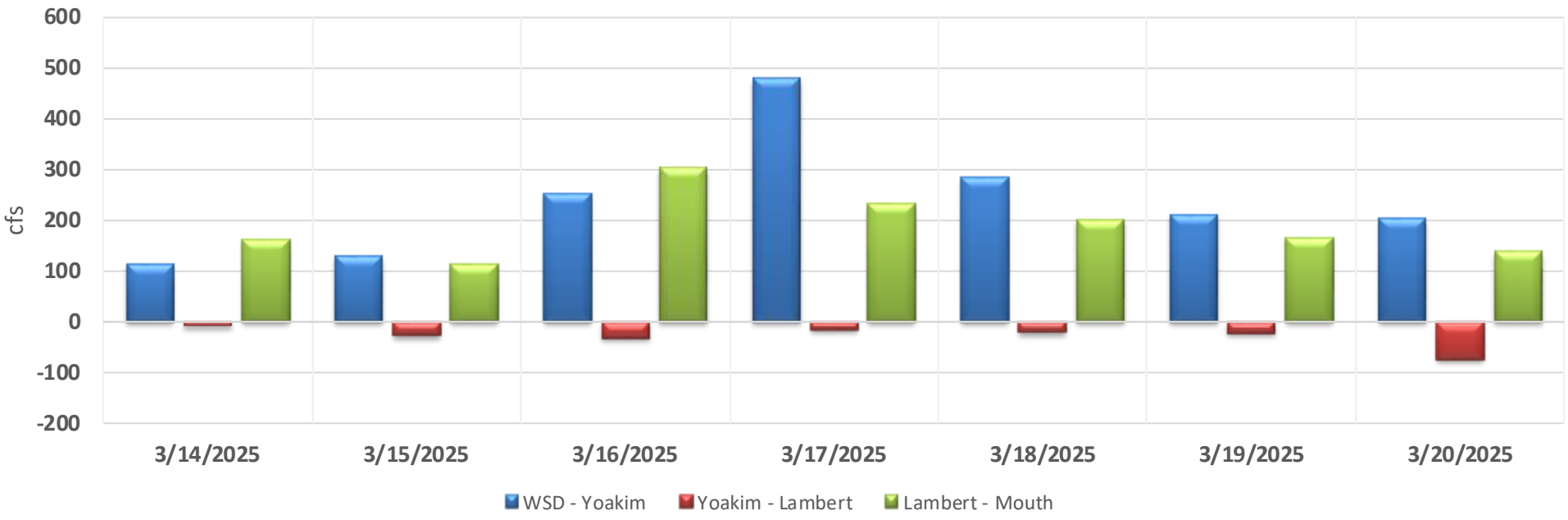
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS