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

Report Date: 3/7/2025

Units are cfs unless noted otherwise

			2/28/2025	3/1/2025	3/2/2025	3/3/2025	3/4/2025	3/5/2025	3/6/2025
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			45.0	45.0	45.0	45.0	45.0	45.0	45.0
PVID Requested Delivery			5.0	5.0	5.0	5.0	5.0	5.0	5.0
PVID Canals Actual Delivery			3.1	1.4	1.4	1.4	1.4	1.4	1.4
East Fork Release			42.0	44.0	44.0	44.0	44.0	44.0	44.0
PVID E Fork Diversions			1.9	3.6	3.6	3.6	3.6	3.6	3.6
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)			40.1	40.4	40.4	40.4	40.4	40.4	40.4
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			149.6	142.0	139.5	132.5	128.4	125.7	121.6
Net Reach Loss(-)/Gain(+)			+104.6	+97.0	+94.5	+87.5	+83.4	+80.7	+76.6
Unimpaired Natural Flow @ Calpella (est.)			66.3	62.1	61.0	58.3	55.7	54.3	52.3
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)			340	279	327	325	274	263	243
(cfs)			171	141	165	164	138	133	123
Natural Flow			131	101	125	124	98	93	83
Import			40	40	40	40	40	40	40
Storage Change (ac-ft)			-70.0	-140.0	-87.0	-88.0	-139.0	-35.0	+35.0
(cfs)			-35	-71	-44	-44	-70	-18	+18
Stored Natural Flow (cfs)			0	0	0	0	0	0	18
Stored Import Water (cfs)			0	0	0	0	0	0	0
Evaporation (ac-ft)			13.2	14.7	9.8	8.8	8.8	6.9	9.8
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			200	204	204	204	204	147	100
Storage (Project Water)			29	63	39	40	66	14	0
Natural Flow			131	101	125	124	98	93	63
Import Water			40	40	40	40	40	40	38
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	200	204	204	204	204	147	100
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			171	141	165	164	138	133	100
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			373	366	362	355	348	287	235
Controlling Gage			Forks	Forks	Forks	Forks	Forks	Forks	Forks
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	373	366	362	355	348	287	235
Talmage	(USGS 11462080)	*96.1*	444	421	418	406	390	354	253
Hopland	(USGS 11462500)	*84.8*	599	572	558	538	516	496	405
Cloverdale	(USGS 11463000)	*70.9*	798	753	729	701	667	647	575
Geyserville	(USGS 11463500)	*54.4*	1,136	1,073	1,030	978	927	892	825
Jimtown	(USGS 11463682)	*48.5*	1,258	1,185	1,128	1,078	1,023	976	918
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*	1,436	1,345	1,276	1,220	1,157	1,106	1,046
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			+69	+55	+55	+50	+42	+53	+17
Talmage - Hopland			+151	+148	+140	+128	+124	+122	+148
Hopland - Cloverdale			+192	+175	+168	+156	+148	+139	+153
Cloverdale - Jimtown			+443	+418	+393	+365	+346	+323	+314
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*			+167	+152	+143	+135	+127	+124	+119
Upper Russian Net Reach Loss/Gain			+1,022	+947	+900	+835	+788	+761	+751
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			171	141	165	164	138	133	100
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).

			2/28/2025	3/1/2025	3/2/2025	3/3/2025	3/4/2025	3/5/2025	3/6/2025
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			-250.0	-223.0	-250.0	-361.0	-278.0	-194.0	-388.0
(cfs)			-126	-112	-126	-182	-140	-98	-196
Evaporation (ac-ft)			16.1	10.9	10.9	12.4	8.9	12.4	12.4
Inflow (Natural Flow)			233	244	231	176	216	260	163
WSD Release Gage			351	351	352	352	352	352	352
Storage (Project Water)			118	107	121	176	136	92	189
Natural Flow			233	244	231	176	216	260	163
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			75	75	75	75	75	75	75
Controlling Compliance Gage									
Min Gage Flow			351	351	352	352	352	352	352
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*	351	351	352	352	352	352	352
Yoakim	(USGS 11465200)	*11.1*	420	423	416	429	412	412	410
Lambert	(USGS 11465240)	*6.8*	418	409	404	400	395	391	388
Dry Crk Mouth	(USGS 11465350)	*0.1*	446	430	417	410	404	399	396
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			233	244	231	176	216	260	163
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+69	+73	+63	+77	+60	+60	+58
Yoakim - Lambert			-3	-15	-12	-30	-18	-21	-22
Lambert - Dry Crk Mouth			+26	+20	+13	+9	+8	+7	+8
WSD - Dry Crk Mouth			+92	+78	+65	+56	+51	+47	+43
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			69	103	79	80	106	54	38
Natural Flow			1,153	1,047	1,025	959	886	854	814
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			118	107	121	176	136	92	189
Natural Flow			328	323	297	234	268	308	207
Russian River d/s of Confluence Flow			1,882	1,775	1,693	1,630	1,561	1,505	1,443
L. Mendocino Project Water + Import Water			69	103	79	80	106	54	38
L. Sonoma Project Water			118	107	121	176	136	92	189
Natural Flow			1,481	1,370	1,322	1,192	1,154	1,161	1,021
VII. Lower Russian River Reach									
Minimum Instream Flow Requirement			125	125	125	125	125	125	125
Controlling Compliance Gage									
Min Gage Flow			2,400	2,204	2,046	1,925	1,825	1,761	1,709
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*	2,400	2,204	2,046	1,925	1,825	1,761	1,709
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			2,444	2,240	2,084	1,953	1,876	1,806	1,744
Net Reach Loss(-)/Gain(+)			+562	+465	+391	+324	+315	+301	+302
L. Mendocino Project Water + Import Water			69	103	79	80	106	54	38
L. Sonoma Project Water			115	105	118	174	134	90	188
Natural Flow			2,043	1,835	1,713	1,516	1,469	1,462	1,323
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			+518	+429	+353	+295	+265	+256	+266
L. Mendocino Project Water + Import Water			69	103	79	80	106	54	38
L. Sonoma Project Water			71	68	80	145	84	45	152
Natural Flow			2,043	1,835	1,713	1,516	1,469	1,462	1,323
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			87.4	72.1	76.1	57.3	99.6	88.6	70.9
Wohler			34.8	27.3	17.8	38.4	55.3	37.5	23.7
Mirabel			52.6	44.8	58.3	18.9	44.3	51.1	47.1
Town of Windsor River Wellfield			5.4	4.8	5.2	3.6	3.6	3.4	3.7
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)

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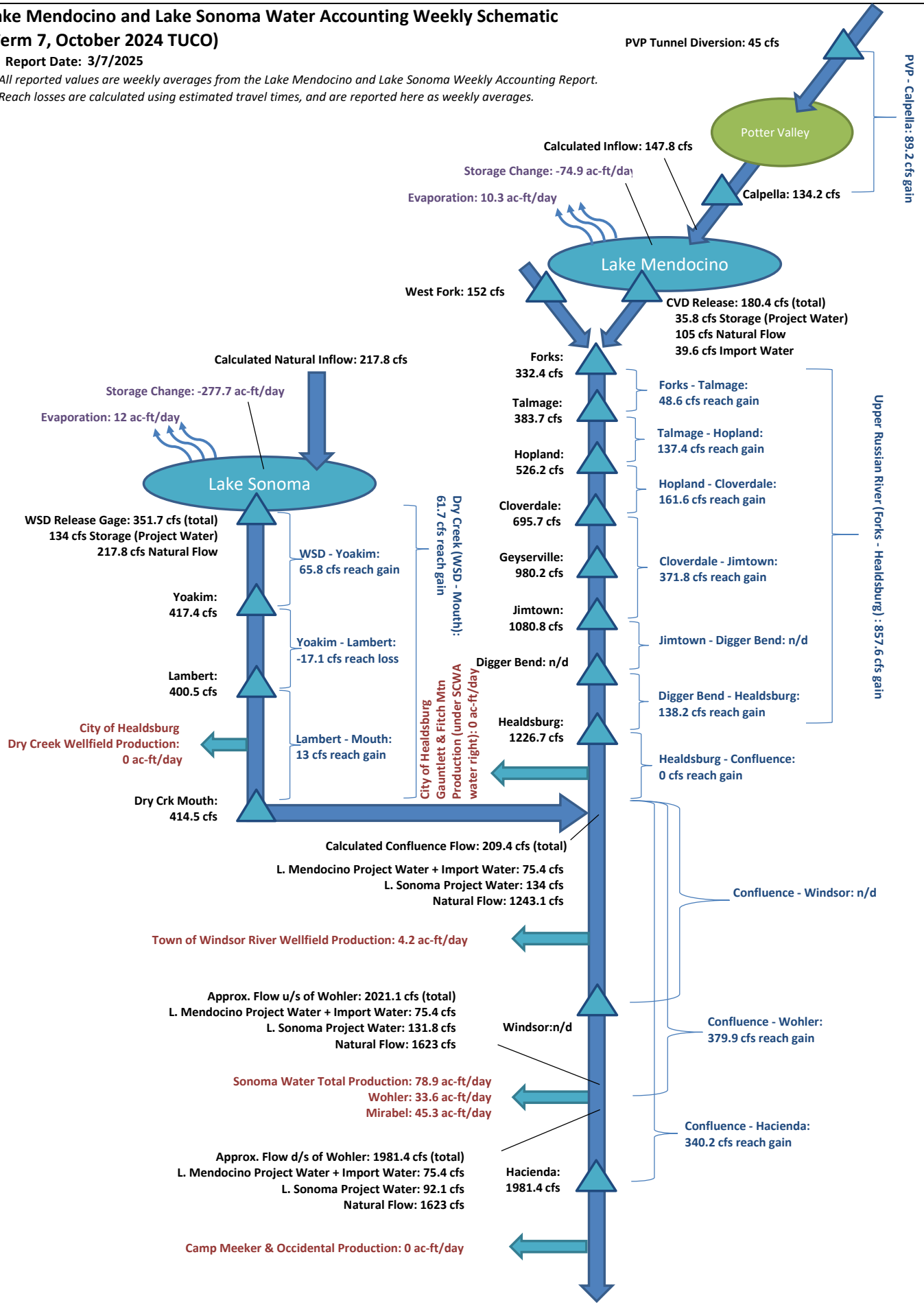
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



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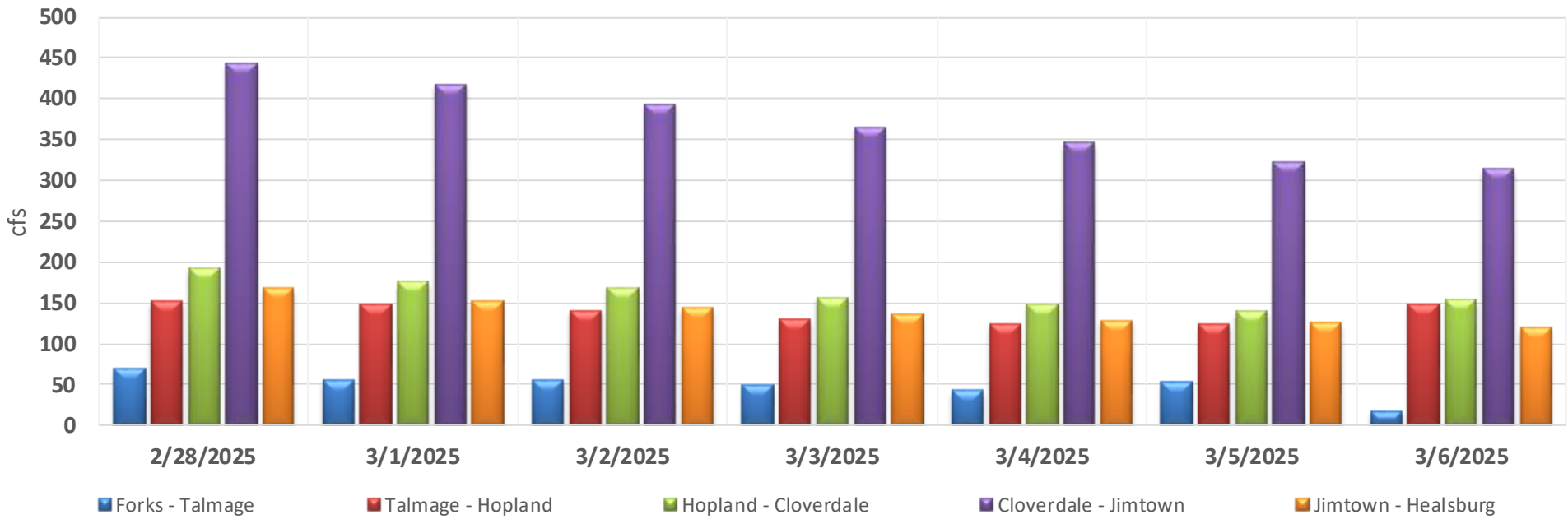
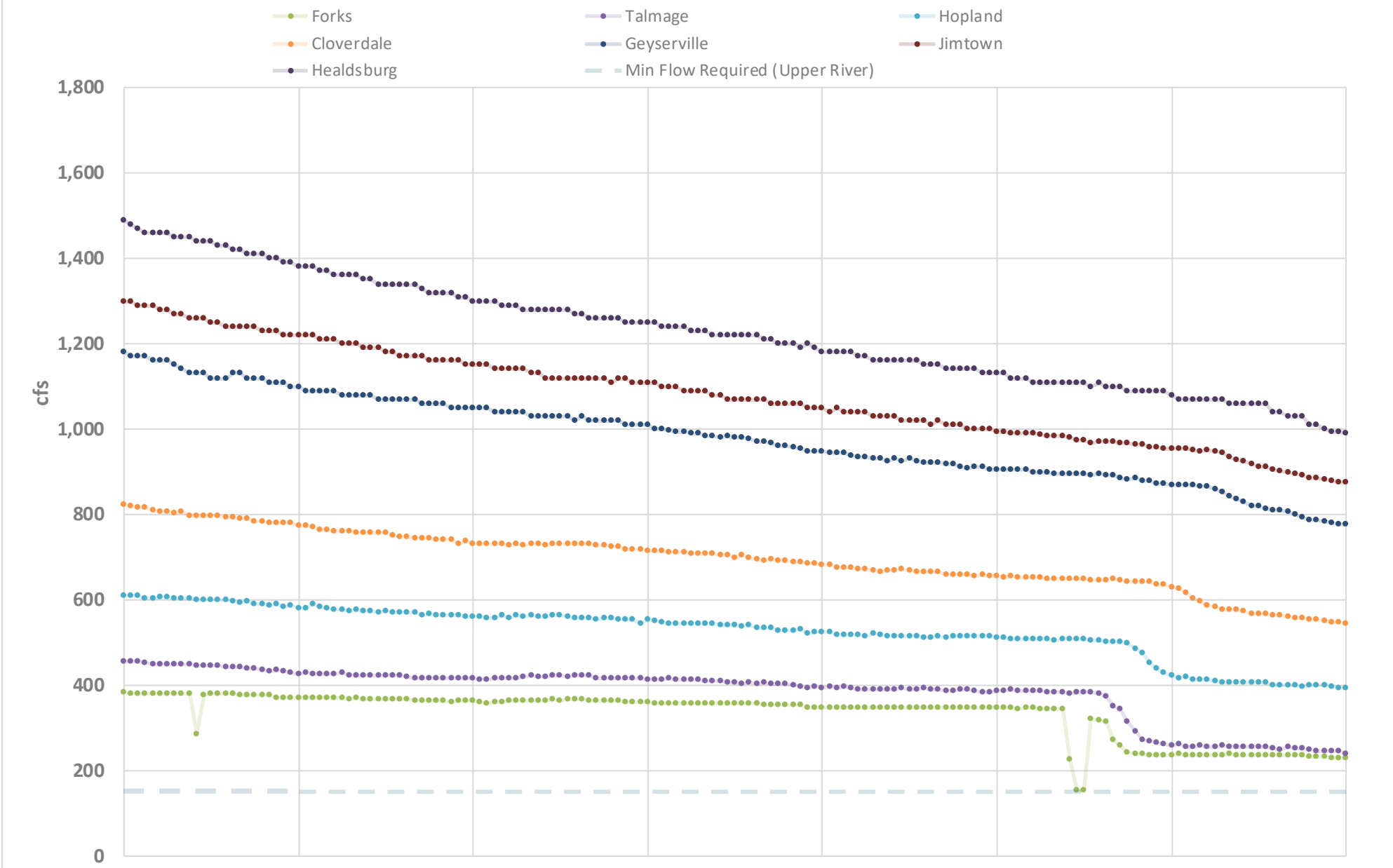
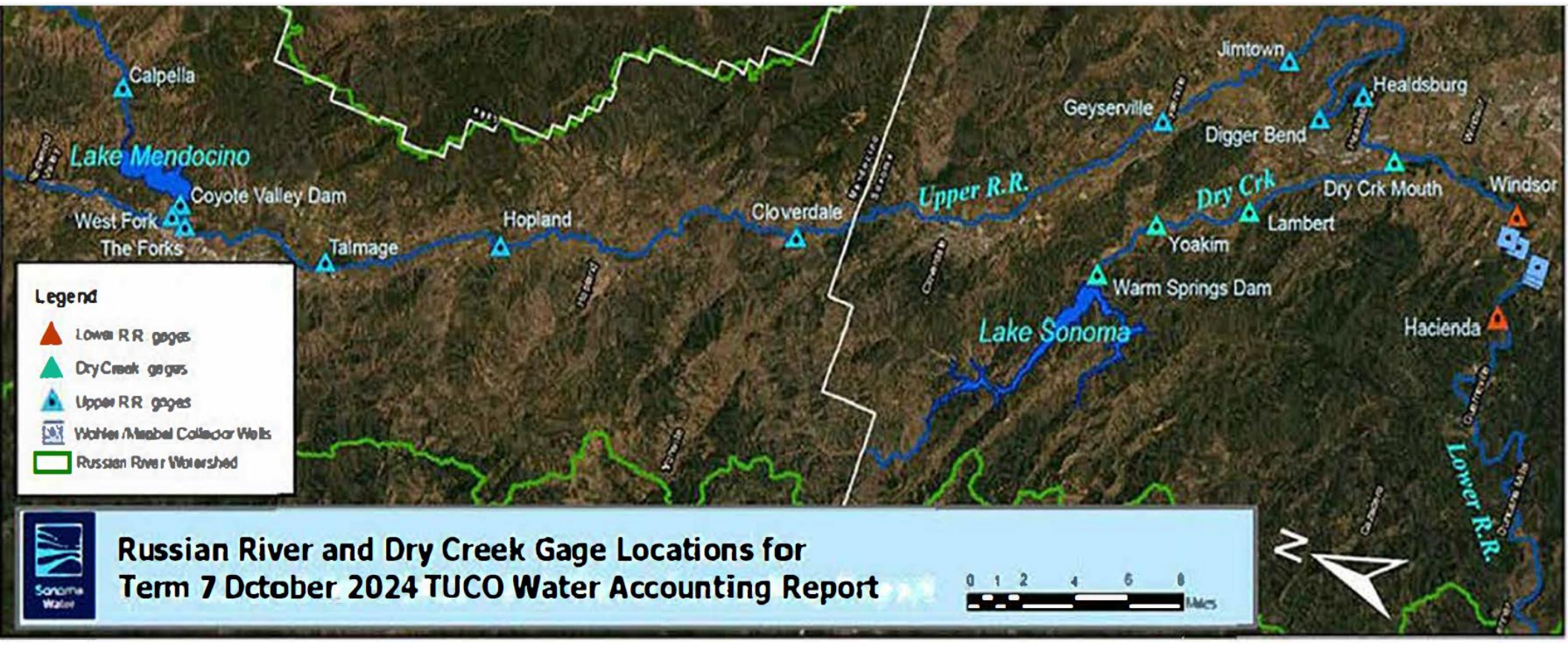
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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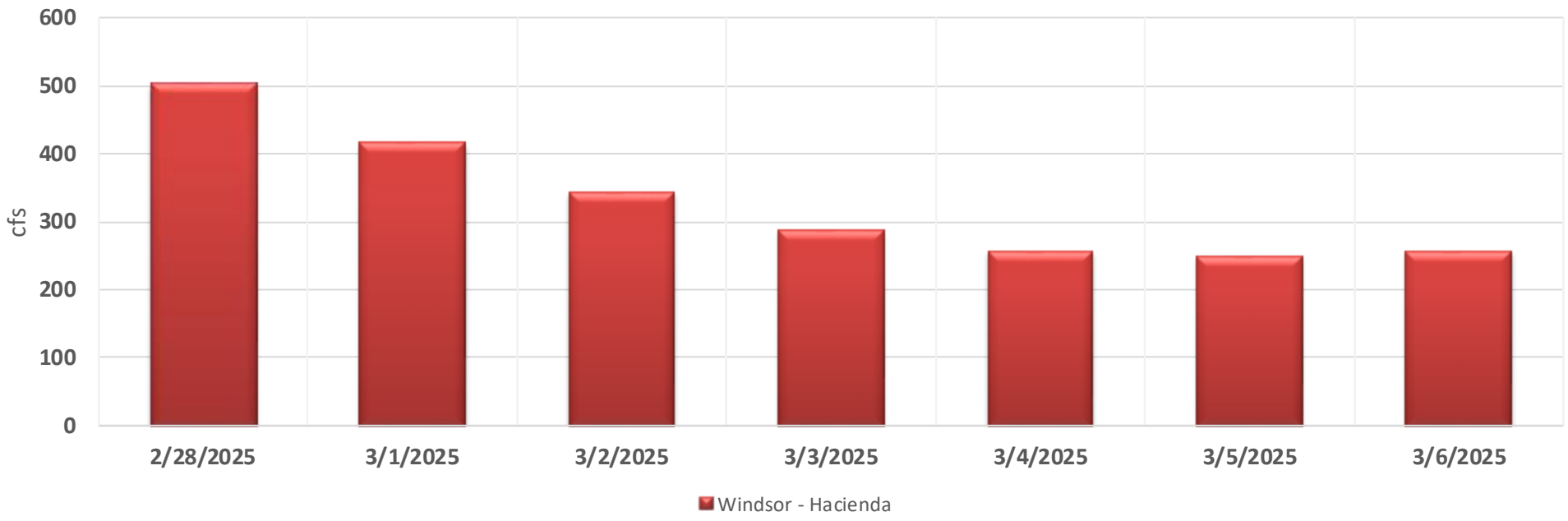
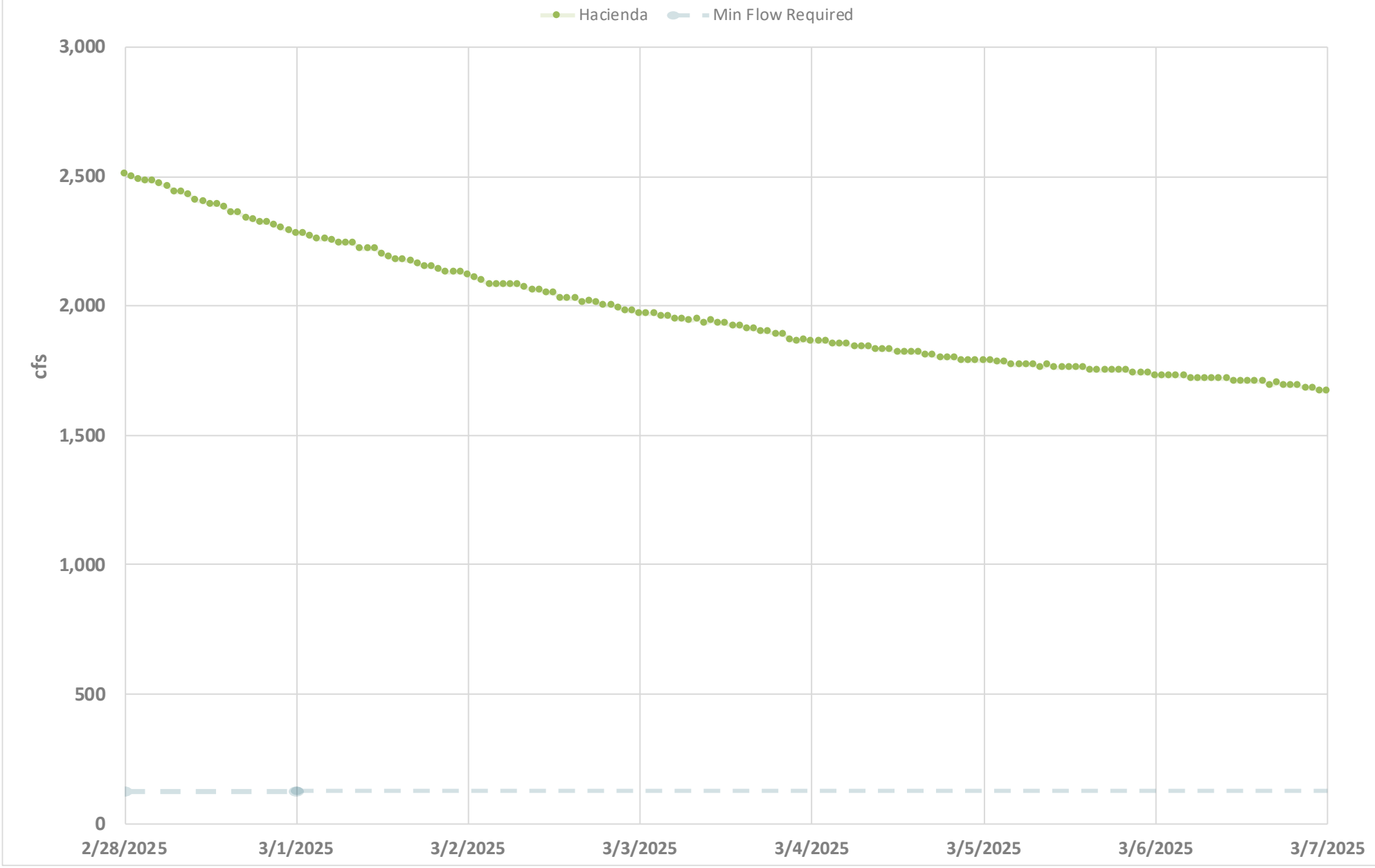
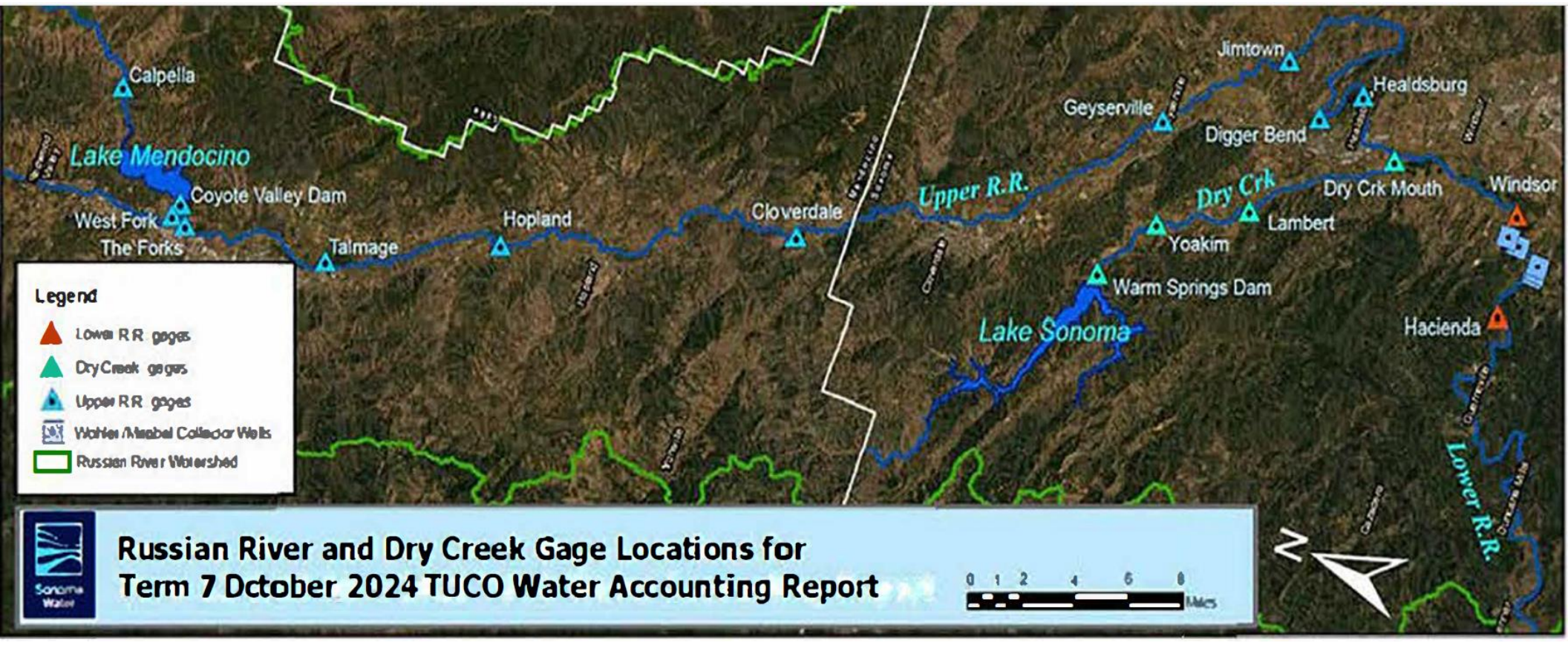
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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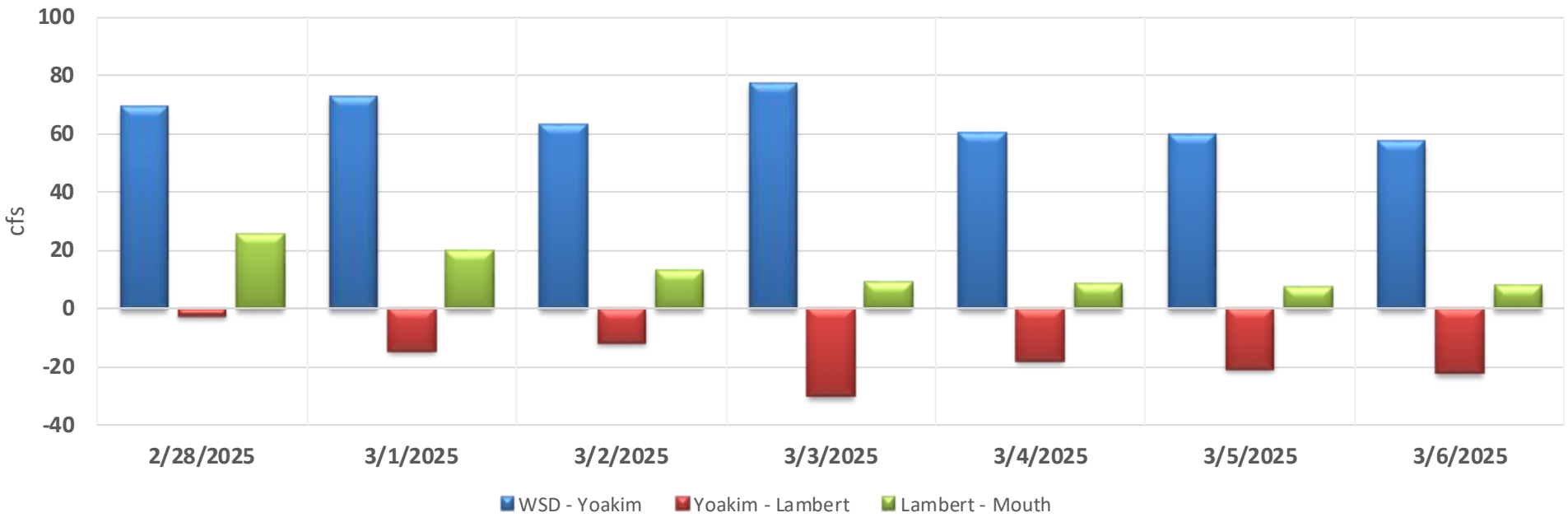
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS