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

Report Date: 2/21/2025

Units are cfs unless noted otherwise

			2/14/2025	2/15/2025	2/16/2025	2/17/2025	2/18/2025	2/19/2025	2/20/2025
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			16.0	46.0	46.0	46.0	46.0	46.0	46.0
PVID Requested Delivery			5.0	5.0	5.0	5.0	5.0	5.0	5.0
PVID Canals Actual Delivery			1.2	3.6	2.5	0.5	0.5	0.5	0.5
East Fork Release			15.0	42.0	44.0	46.0	46.0	46.0	46.0
PVID E Fork Diversions			3.8	1.4	2.6	4.6	4.5	4.5	4.5
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)			11.2	40.6	41.5	41.5	41.5	41.5	41.5
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			1,493.6	680.3	661.5	519.1	406.2	379.8	321.8
Net Reach Loss(-)/Gain(+)			+1,477.6	+634.3	+615.5	+473.1	+360.2	+333.8	+275.8
Unimpaired Natural Flow @ Calpella (est.)			950.1	349.2	300.4	227.1	177.1	166.4	144.9
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)			3,218	1,261	1,308	941	803	893	785
(cfs)			1,622	636	659	474	405	450	396
Natural Flow			1,611	595	618	433	364	409	355
Import			11	41	41	41	41	41	41
Storage Change (ac-ft)			+2,829.0	+854.0	+907.0	+542.0	+245.0	+175.0	+70.0
(cfs)			+1,426	+431	+457	+273	+124	+88	+35
Stored Natural Flow (cfs)			1,426	431	457	273	124	88	35
Stored Import Water (cfs)			0	0	0	0	0	0	0
Evaporation (ac-ft)			2.0	5.1	6.1	4.1	7.1	8.1	7.1
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			195	202	199	199	278	358	357
Storage (Project Water)			0	0	0	0	0	0	0
Natural Flow			184	163	160	159	239	319	318
Import Water			10	40	39	40	39	39	39
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	195	202	199	199	278	358	357
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			195	202	199	199	278	358	357
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			2,869	1,174	1,014	818	758	804	749
Controlling Gage			Forks	Forks	Forks	Forks	Forks	Forks	Forks
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	2,869	1,174	1,014	818	758	804	749
Talmage	(USGS 11462080)	*96.1*	4,937	2,189	1,772	1,378	1,162	1,119	1,029
Hopland	(USGS 11462500)	*84.8*	6,439	2,763	2,180	1,748	1,456	1,353	1,247
Cloverdale	(USGS 11463000)	*70.9*	9,334	4,584	3,347	2,672	2,146	1,906	1,751
Geyserville	(USGS 11463500)	*54.4*	13,621	7,488	5,170	4,238	3,452	3,041	2,765
Jimtown	(USGS 11463682)	*48.5*	11,463	7,401	5,163	4,333	3,458	2,974	2,715
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*	14,933	9,767	6,048	5,030	4,004	3,410	3,073
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			+1,887	+960	+755	+546	+407	+317	+272
Talmage - Hopland			+1,208	+464	+398	+340	+284	+235	+203
Hopland - Cloverdale			+2,334	+1,630	+1,139	+872	+666	+551	+477
Cloverdale - Jimtown			+1,707	+1,799	+1,718	+1,445	+1,210	+1,030	+907
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*			+3,410	+1,995	+813	+607	+490	+410	+335
Upper Russian Net Reach Loss/Gain			+10,546	+6,848	+4,823	+3,809	+3,057	+2,542	+2,194
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			195	202	199	199	278	358	357
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).

			2/14/2025	2/15/2025	2/16/2025	2/17/2025	2/18/2025	2/19/2025	2/20/2025
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			+5,065.0	+2,470.0	+1,992.0	+1,276.0	-2,085.0	-5,481.0	-3,915.0
(cfs)			+2,554	+1,245	+1,004	+643	-1,051	-2,763	-1,974
Evaporation (ac-ft)			8.3	8.4	6.7	8.4	8.9	8.3	13.1
Inflow (Natural Flow)			2,742	1,438	1,198	833	494	301	280
WSD Release Gage			184	188	190	185	1541	3060	2247
Storage (Project Water)			0	0	0	0	1047	2759	1967
Natural Flow			184	188	190	185	494	301	280
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			75	75	75	75	75	75	75
Controlling Compliance Gage									
Min Gage Flow			184	188	190	185	1142	2755	2247
Controlling Gage			WSD Release	WSD Release	WSD Release	WSD Release	Dry Crk Mouth	Dry Crk Mouth	WSD Release
All Compliance Gages		*Crk mi.*							
WSD Release		*14.3*	184	188	190	185	1,541	3,060	2,247
Yoakim	(USGS 11465200)	*11.1*	979	637	520	454	1,630	3,567	2,922
Lambert	(USGS 11465240)	*6.8*	1,225	754	586	485	1,379	3,599	3,165
Dry Crk Mouth	(USGS 11465350)	*0.1*	3,560	2,177	1,326	1,069	1,142	2,755	2,711
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			184	188	190	185	494	301	280
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+795	+451	+330	+269	+363	+506	+488
Yoakim - Lambert			+223	+109	+64	+27	-119	+32	+149
Lambert - Dry Crk Mouth			+2,273	+1,400	+731	+578	+16	-833	-634
WSD - Dry Crk Mouth			+3,291	+1,959	+1,125	+874	+260	-296	+3
WSD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss/Gain to Controlling Gage			+0	+0	+0	+0	+260	-296	+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			11	40	39	40	39	39	39
Natural Flow			10,730	7,011	4,983	3,969	3,296	2,861	2,512
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			0	0	0	0	1047	2,759	1,967
Natural Flow			3,560	2,177	1,326	1,069	754	5	744
Russian River d/s of Confluence Flow			18,493	11,944	7,374	6,099	5,146	6,165	5,784
L. Mendocino Project Water + Import Water			11	40	39	40	39	39	39
L. Sonoma Project Water			0	0	0	0	1,047	2,759	1,967
Natural Flow			14,290	9,188	6,308	5,037	4,050	2,866	3,256
VII. Lower Russian River Reach									
Minimum Instream Flow Requirement			125	125	125	125	125	125	125
Controlling Compliance Gage									
Min Gage Flow			20,838	18,775	11,430	8,547	6,883	7,670	7,781
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*	20,838	18,775	11,430	8,547	6,883	7,670	7,781
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			20,874	18,813	11,468	8,589	6,925	7,709	7,831
Net Reach Loss(-)/Gain(+)			+2,381	+6,869	+4,094	+2,490	+1,779	+1,544	+2,047
L. Mendocino Project Water + Import Water			11	40	39	40	39	39	39
L. Sonoma Project Water			0	0	0	0	1,045	2,757	1,965
Natural Flow			16,671	16,057	10,403	7,527	5,829	4,410	5,303
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			+2,344	+6,831	+4,056	+2,447	+1,736	+1,504	+1,997
L. Mendocino Project Water + Import Water			11	40	39	40	39	39	39
L. Sonoma Project Water			0	0	0	0	1,002	2,718	1,915
Natural Flow			16,634	16,019	10,365	7,485	5,829	4,410	5,303
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			72.7	74.7	75.6	84.4	84.0	78.9	100.1
Wohler			28.2	28.9	29.4	37.6	37.5	34.2	41.4
Mirabel			44.6	45.7	46.2	46.9	46.5	44.7	58.7
Town of Windsor River Wellfield			3.7	3.4	3.3	3.5	3.9	3.7	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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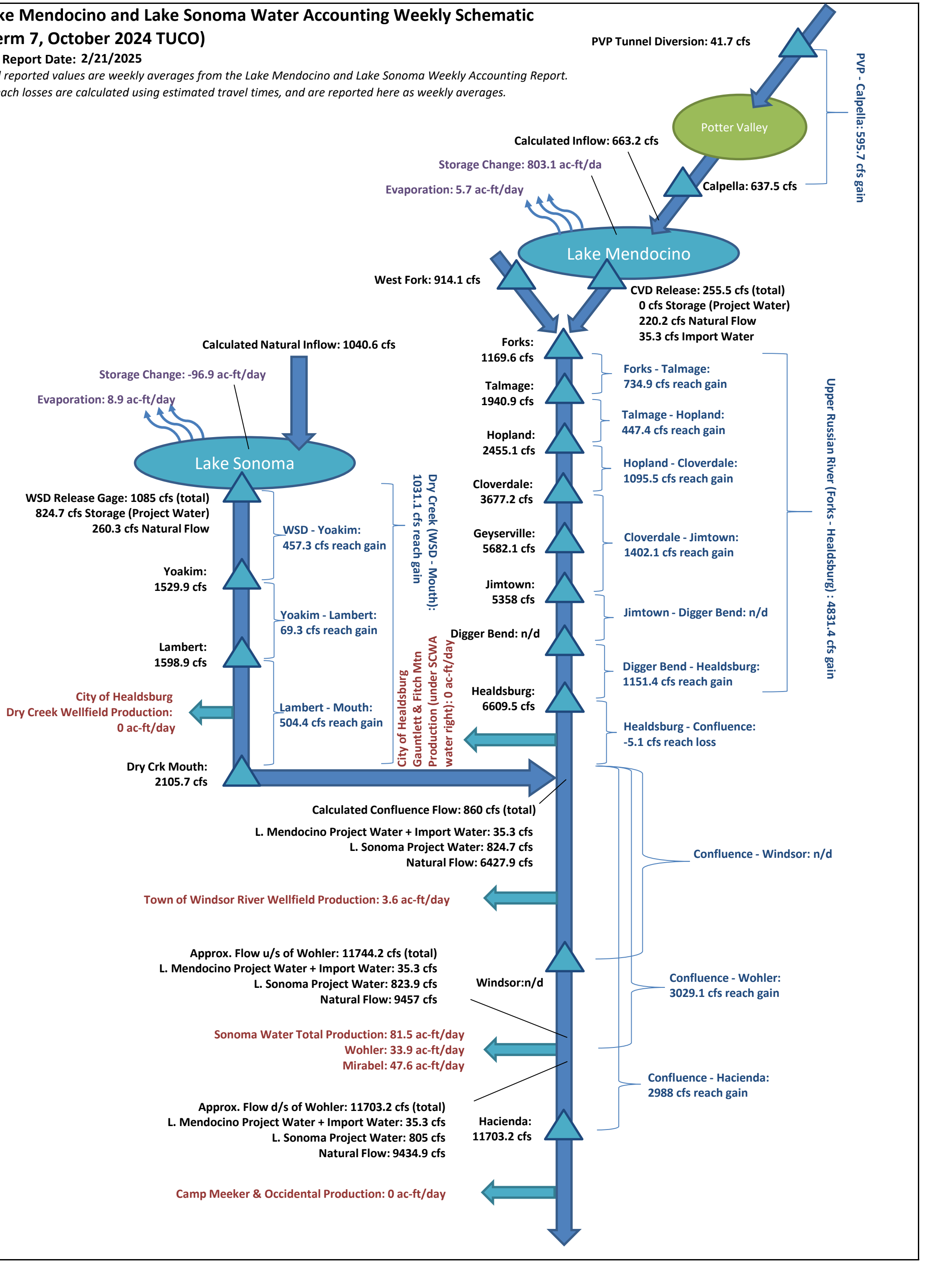
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



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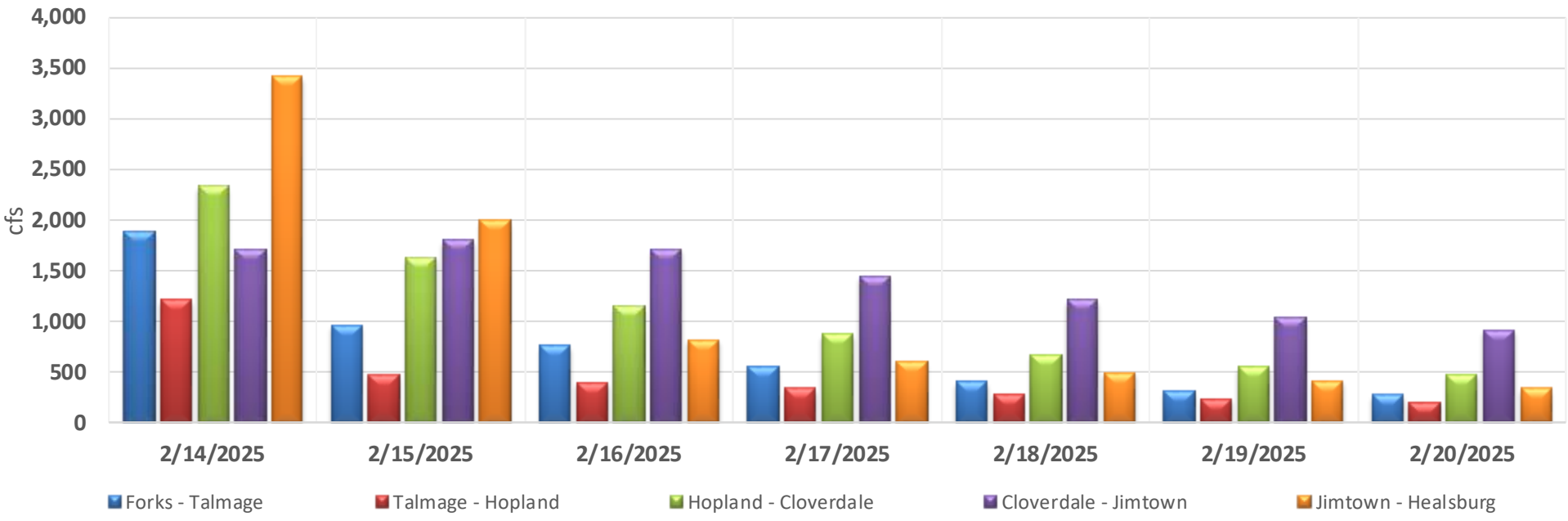
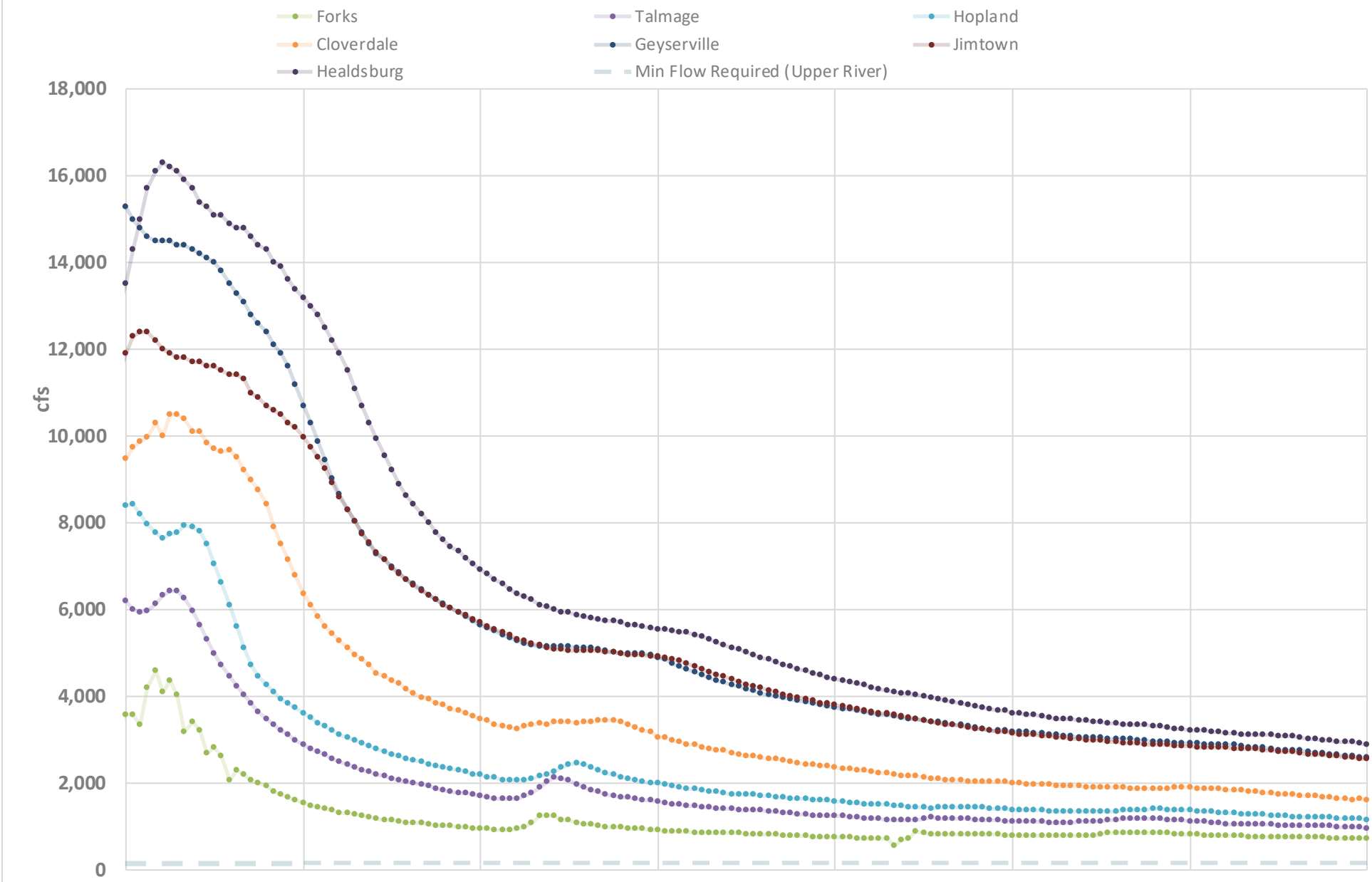
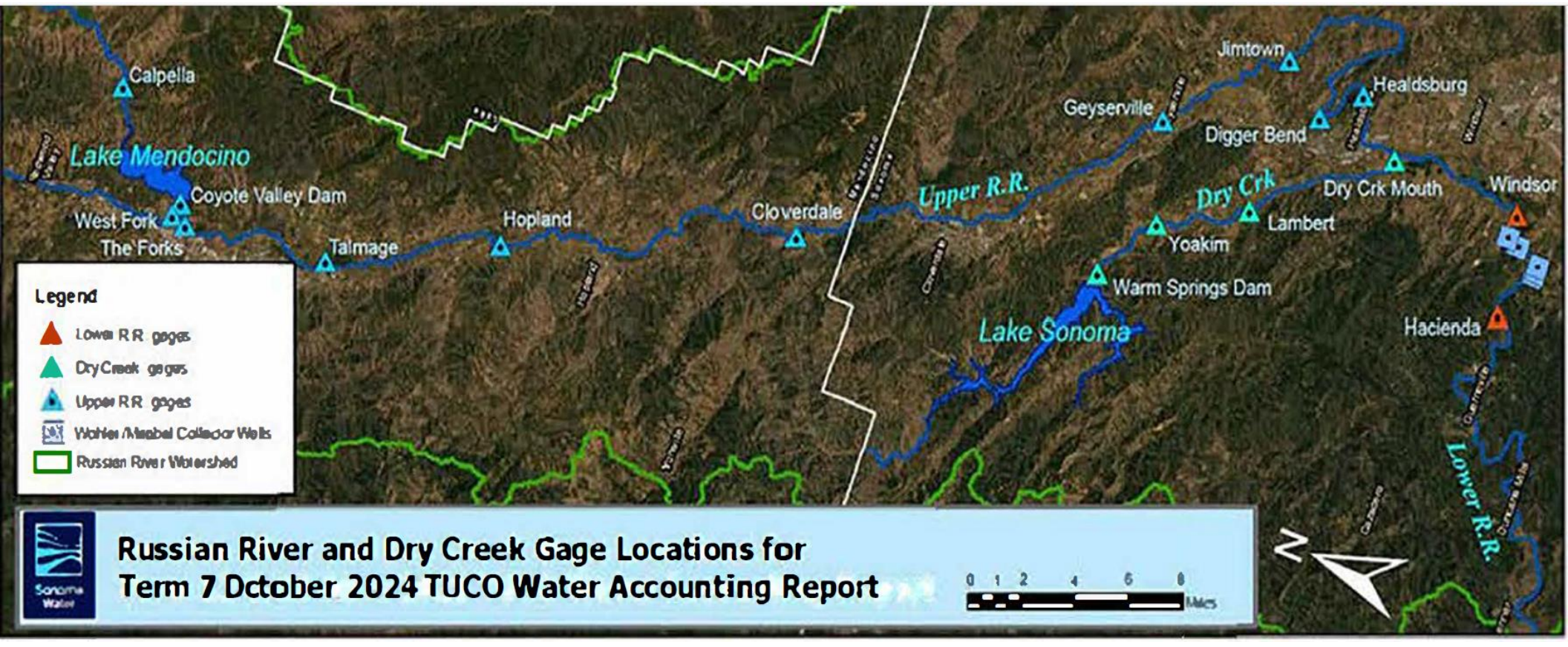
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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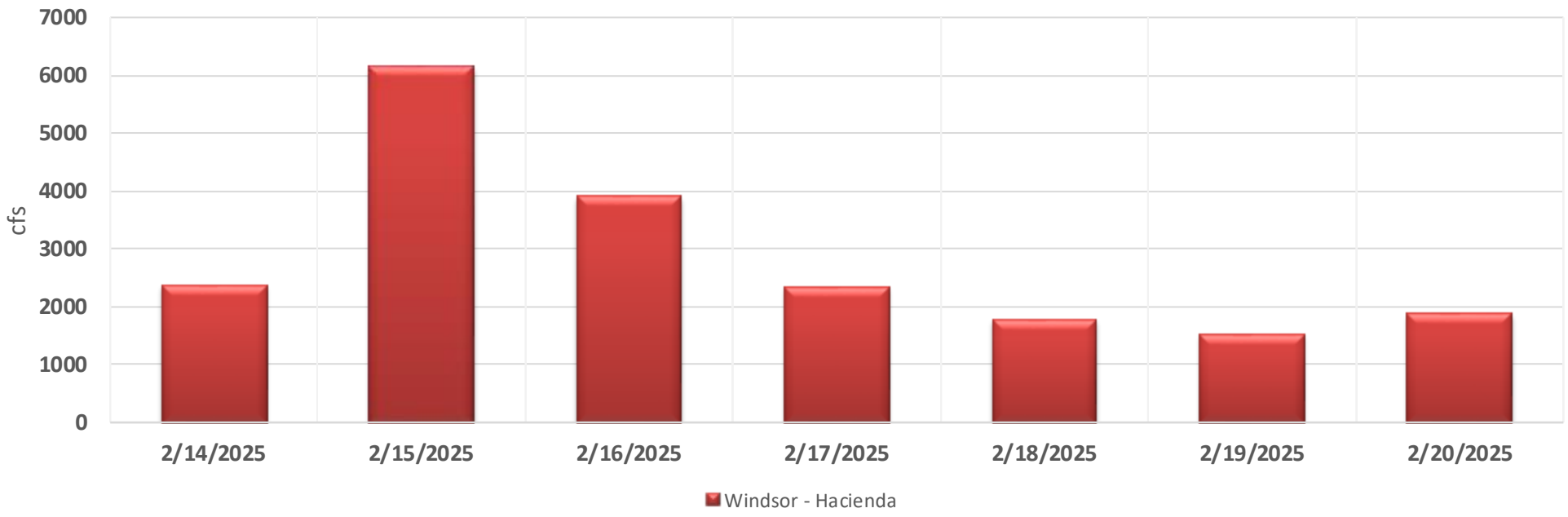
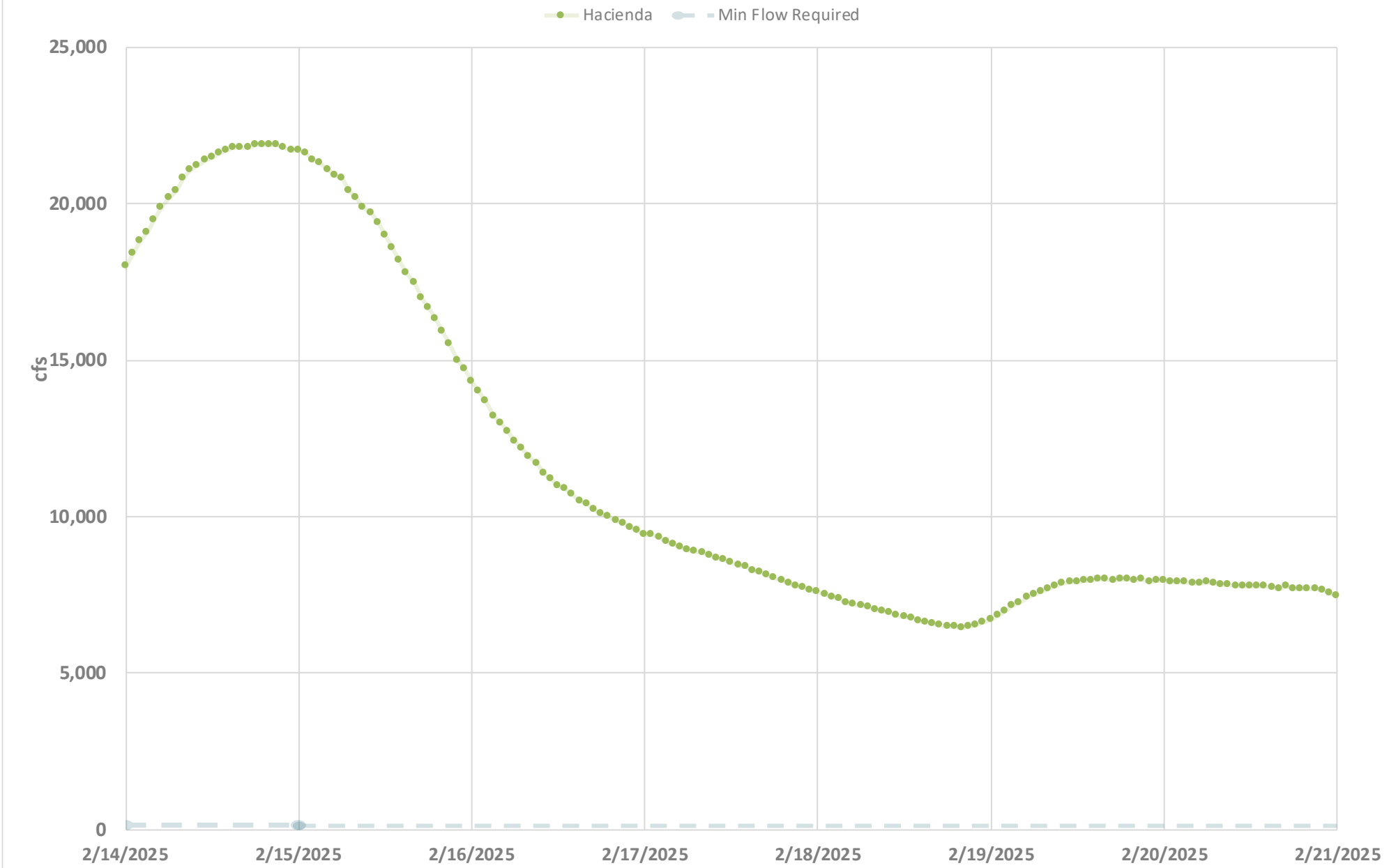
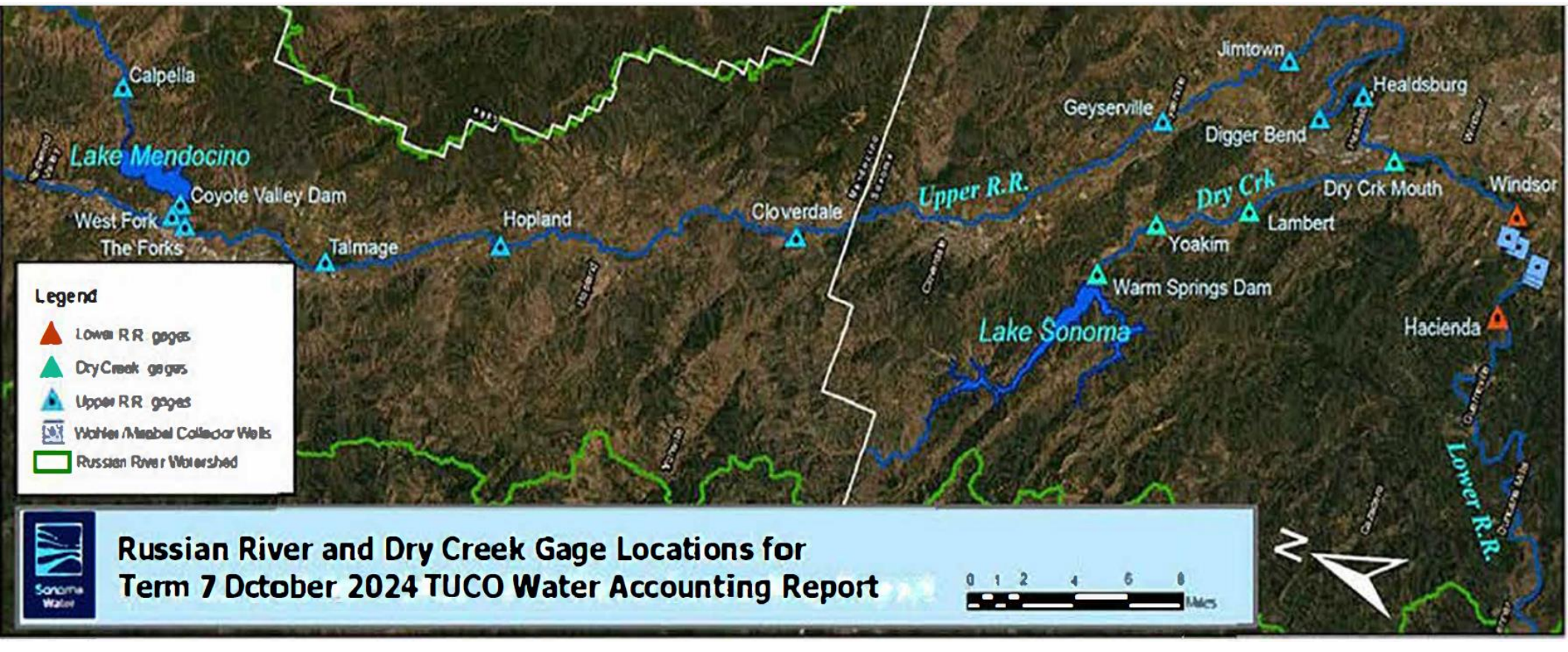
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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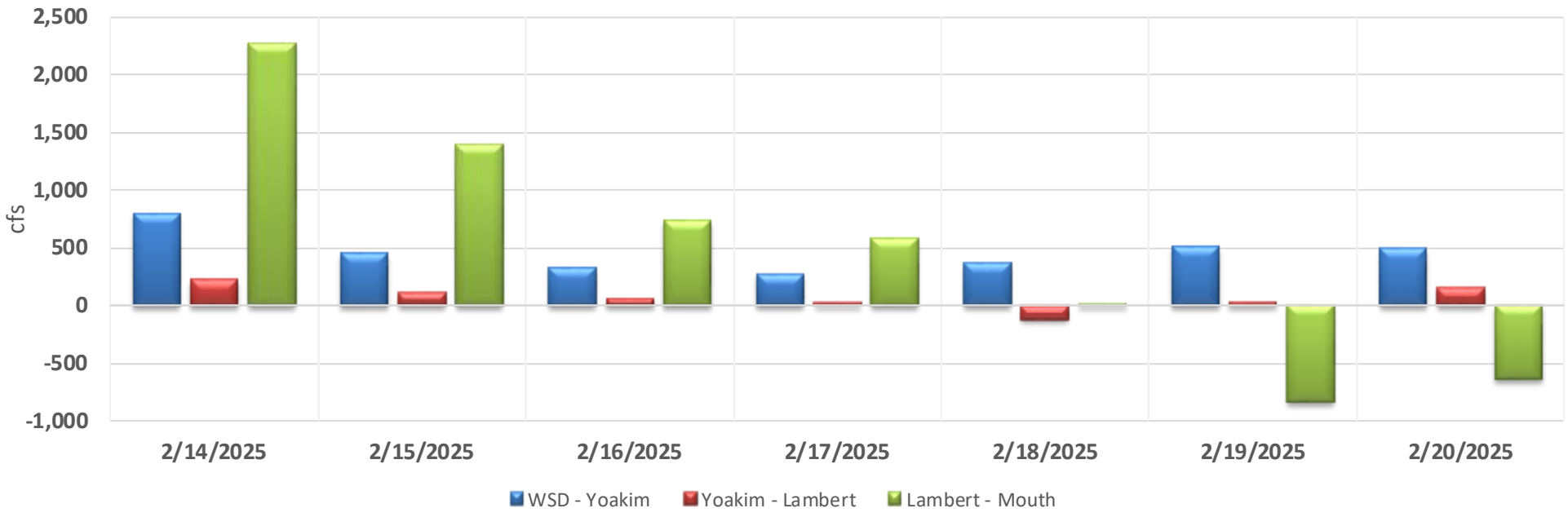
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS