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

Report Date: 11/29/2024

Units are cfs unless noted otherwise

			11/22/2024	11/23/2024	11/24/2024	11/25/2024	11/26/2024	11/27/2024	11/28/2024
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			21.0	22.0	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			4.7	4.7	4.7	4.7	4.7	4.7	4.7
East Fork Release			16.0	17.0	40.0	40.0	40.0	40.0	40.0
PVID E Fork Diversions			0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)			15.7	16.7	39.7	39.7	39.7	39.7	39.7
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			2,446.0	774.1	292.7	381.2	414.5	199.6	141.2
Net Reach Loss(-)/Gain(+)			+2,425.0	+752.1	+247.7	+336.2	+369.5	+154.6	+96.2
Unimpaired Natural Flow @ Calpella (est.)			927.3	474.7	182.3	104.7	192.1	111.3	80.3
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)			4,943	1,346	490	711	701	324	270
(cfs)			2,492	678	247	359	354	164	136
Natural Flow			2,476	661	207	319	314	124	96
Import			16	17	40	40	40	40	40
Storage Change (ac-ft)			+4,863.0	+1,274.0	+415.0	+642.0	+628.0	+259.0	+194.0
(cfs)			+2,452	+642	+209	+324	+317	+131	+98
Stored Natural Flow (cfs)			2,452	642	207	319	314	124	96
Stored Import Water (cfs)			0	0	2	5	3	7	2
Evaporation (ac-ft)			2.5	5.1	5.1	2.6	5.2	6.5	7.8
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			39	34	35	34	34	30	35
Storage (Project Water)			0	0	0	0	0	0	0
Natural Flow			24	18	0	0	0	0	0
Import Water			15	16	35	34	34	30	34
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	39	34	35	34	34	30	35
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			39	34	35	34	34	30	34
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			2,997	811	401	343	427	276	221
Controlling Gage			Forks	Forks	Forks	Forks	Forks	Forks	Forks
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	2,997	811	401	343	427	276	221
Talmage	(USGS 11462080)	*96.1*	5,003	1,375	592	472	602	362	283
Hopland	(USGS 11462500)	*84.8*	7,253	1,969	815	570	670	453	343
Cloverdale	(USGS 11463000)	*70.9*	13,625	4,763	1,871	1,182	1,146	868	665
Geyserville	(USGS 11463500)	*54.4*	23,896	9,854	3,812	2,505	2,163	1,676	1,280
Jimtown	(USGS 11463682)	*48.5*	21,658	10,812	2,850	1,900	1,672	1,433	1,181
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*	31,983	19,590	5,978	3,294	2,574	2,040	1,534
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			+1,825	+463	+161	+153	+153	+75	+57
Talmage - Hopland			+2,016	+469	+187	+112	+55	+80	+56
Hopland - Cloverdale			+6,368	+2,487	+979	+610	+476	+394	+312
Cloverdale - Jimtown			+8,316	+4,431	+667	+666	+510	+500	+484
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*			+10,602	+7,294	+2,948	+1,364	+886	+582	+334
Upper Russian Net Reach Loss/Gain			+29,126	+15,143	+4,942	+2,904	+2,081	+1,630	+1,242
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			39	34	35	34	34	30	34
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).

			11/22/2024	11/23/2024	11/24/2024	11/25/2024	11/26/2024	11/27/2024	11/28/2024
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			+12,295.0	+2,435.0	+914.0	+835.0	+513.0	+297.0	+189.0
(cfs)			+6,199	+1,228	+461	+421	+259	+150	+95
Evaporation (ac-ft)			2.1	6.4	6.5	6.5	6.5	8.7	8.7
Inflow (Natural Flow)			6,308	1,339	572	532	369	260	206
WSD Release Gage			108	108	108	108	107	106	106
Storage (Project Water)			0	0	0	0	0	0	0
Natural Flow			108	108	108	108	107	106	106
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			105	105	105	105	105	105	105
Controlling Compliance Gage									
Min Gage Flow			108	108	108	108	107	106	106
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*	108	108	108	108	107	106	106
Yoakim	(USGS 11465200)	*11.1*	2,209	705	417	346	297	253	225
Lambert	(USGS 11465240)	*6.8*	2,695	875	435	350	302	256	228
Dry Crk Mouth	(USGS 11465350)	*0.1*	7,795	4,328	1,414	802	586	445	272
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			108	108	108	108	107	106	106
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+2,106	+605	+317	+245	+196	+152	+124
Yoakim - Lambert			+455	+150	+10	+3	+2	+2	+1
Lambert - Dry Crk Mouth			+5,048	+3,385	+965	+451	+279	+186	+43
WSD - Dry Crk Mouth			+7,609	+4,140	+1,292	+699	+478	+340	+169
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			15	16	35	34	34	30	35
Natural Flow			29,150	15,161	4,942	2,904	2,081	1,630	1,242
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			7,795	4,328	1,414	802	586	445	272
Russian River d/s of Confluence Flow			39,779	23,918	7,392	4,096	3,161	2,484	1,806
L. Mendocino Project Water + Import Water			15	16	35	34	34	30	35
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			36,945	19,489	6,356	3,706	2,667	2,075	1,514
VII. Lower Russian River Reach									
Minimum Instream Flow Requirement			125	125	125	125	125	125	125
Controlling Compliance Gage									
Min Gage Flow			32,696	37,050	23,446	10,680	6,701	5,010	3,862
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*	32,696	37,050	23,446	10,680	6,701	5,010	3,862
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			32,745	37,104	23,498	10,730	6,768	5,052	3,904
Net Reach Loss(-)/Gain(+)			-7,034	+13,186	+16,106	+6,634	+3,608	+2,568	+2,098
L. Mendocino Project Water + Import Water			15	16	35	34	34	30	35
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			29,912	32,674	22,463	10,340	6,275	4,642	3,612
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			-7,083	+13,132	+16,054	+6,584	+3,540	+2,526	+2,056
L. Mendocino Project Water + Import Water			15	16	35	34	34	30	35
L. Sonoma Project Water			0	0	0	0	0	0	0
Natural Flow			29,863	32,620	22,410	10,290	6,208	4,600	3,570
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			97.5	106.9	104.0	99.0	133.8	83.7	83.1
Wohler			43.5	39.9	46.4	40.1	90.7	51.6	52.8
Mirabel			54.0	67.0	57.6	58.9	43.0	32.1	30.3
Town of Windsor River Wellfield			4.2	3.9	3.8	3.9	5.3	5.4	5.9
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).

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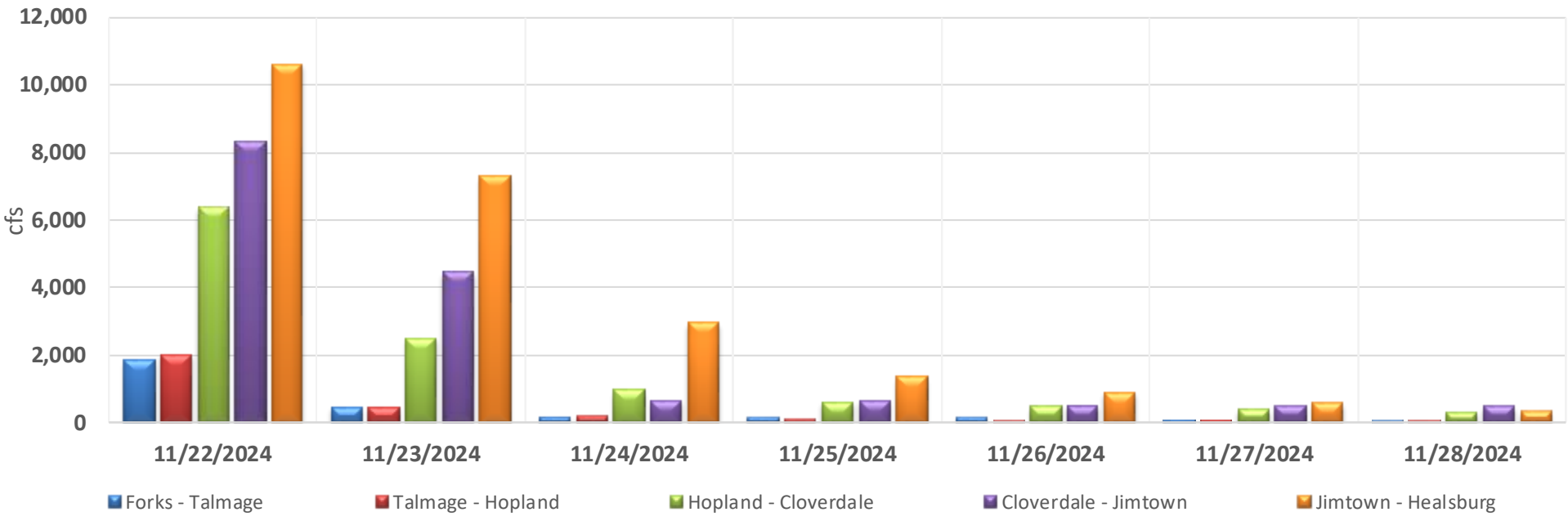
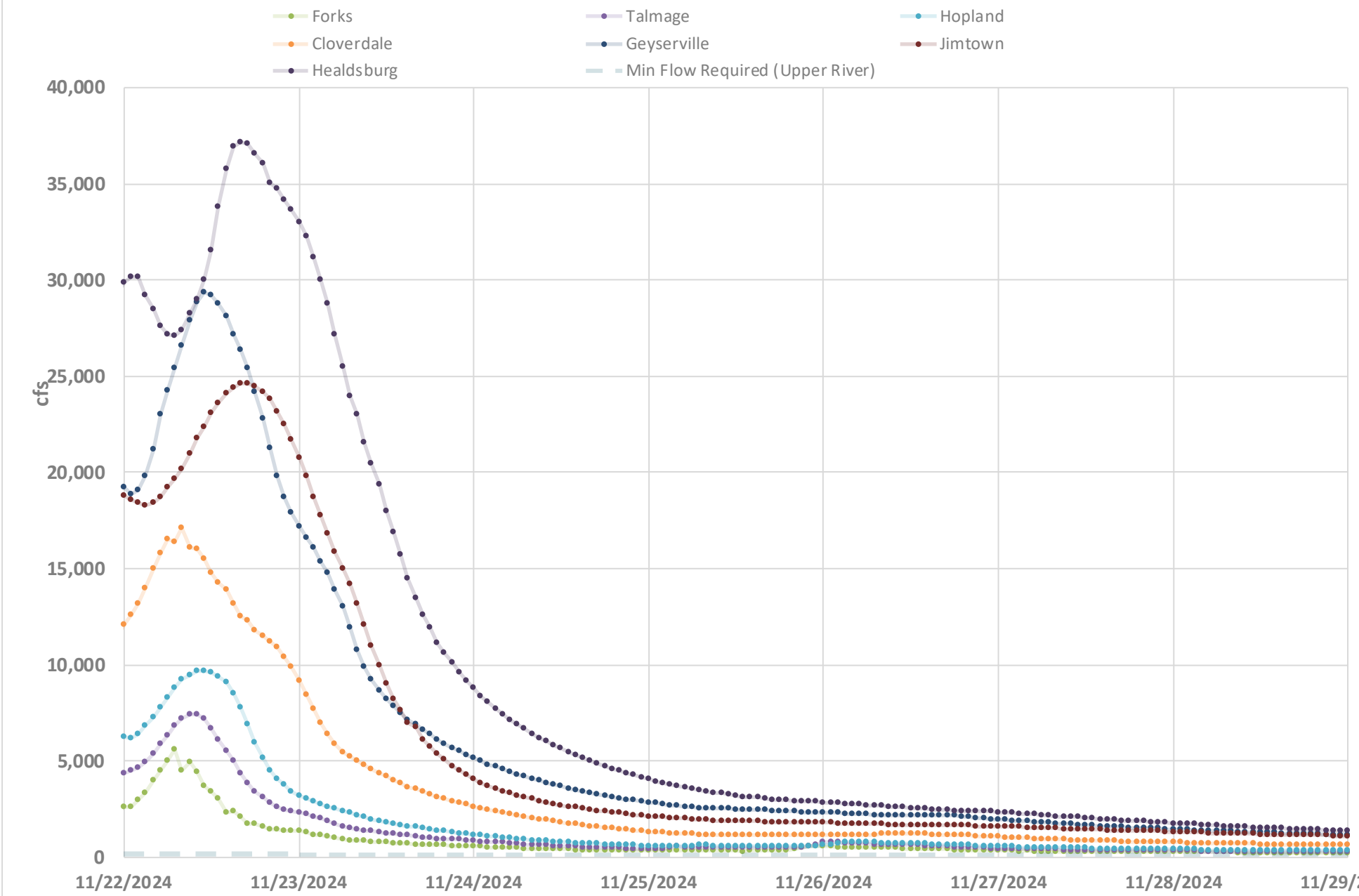
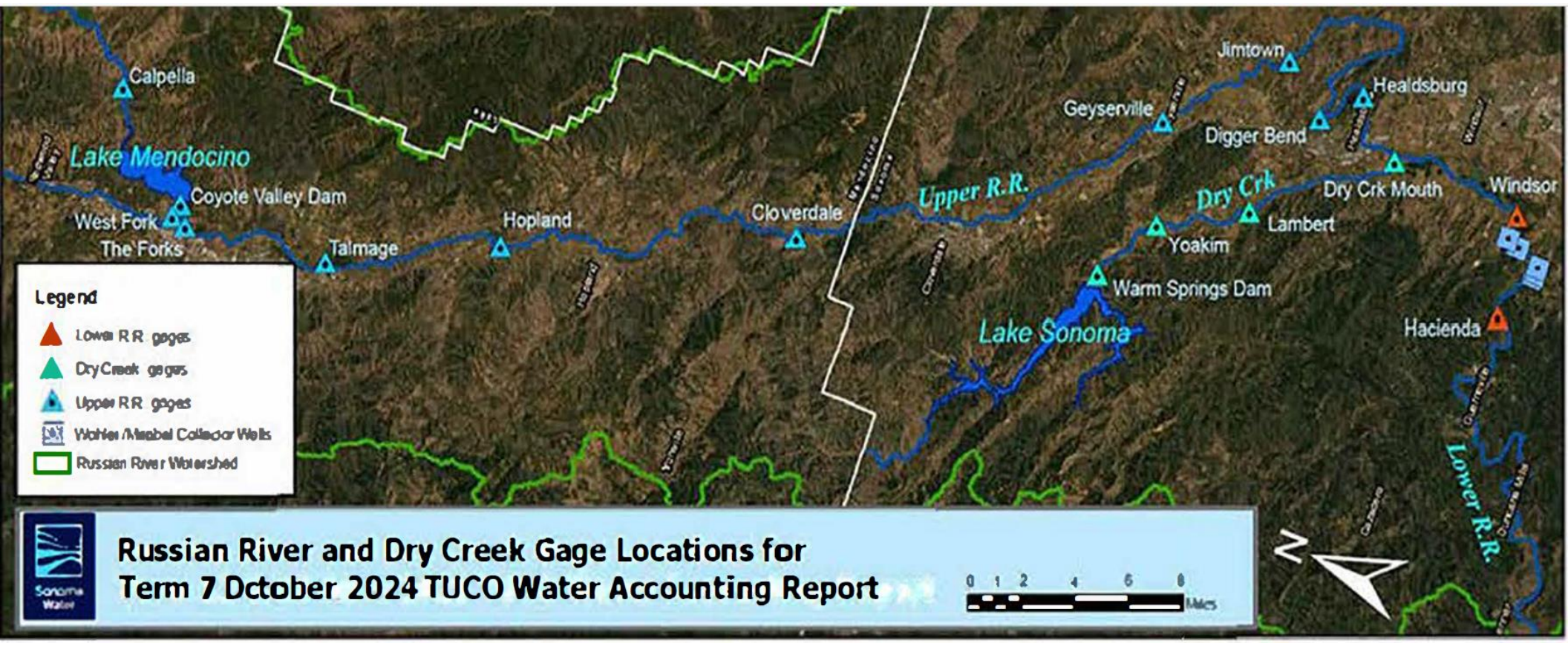
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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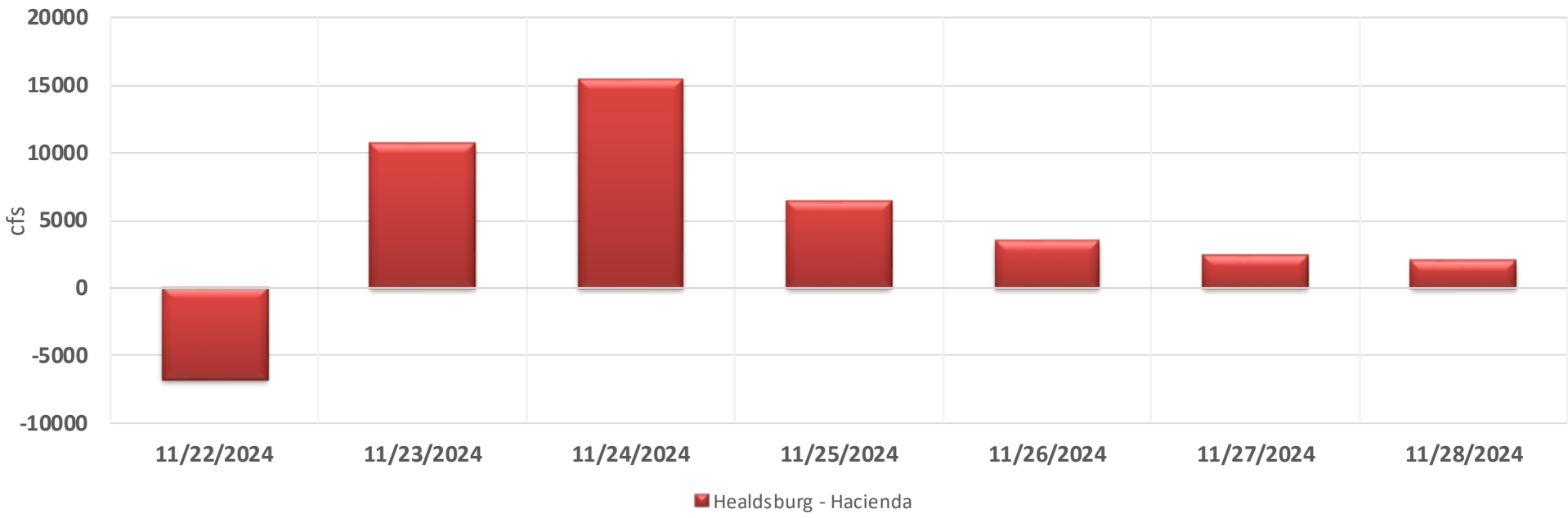
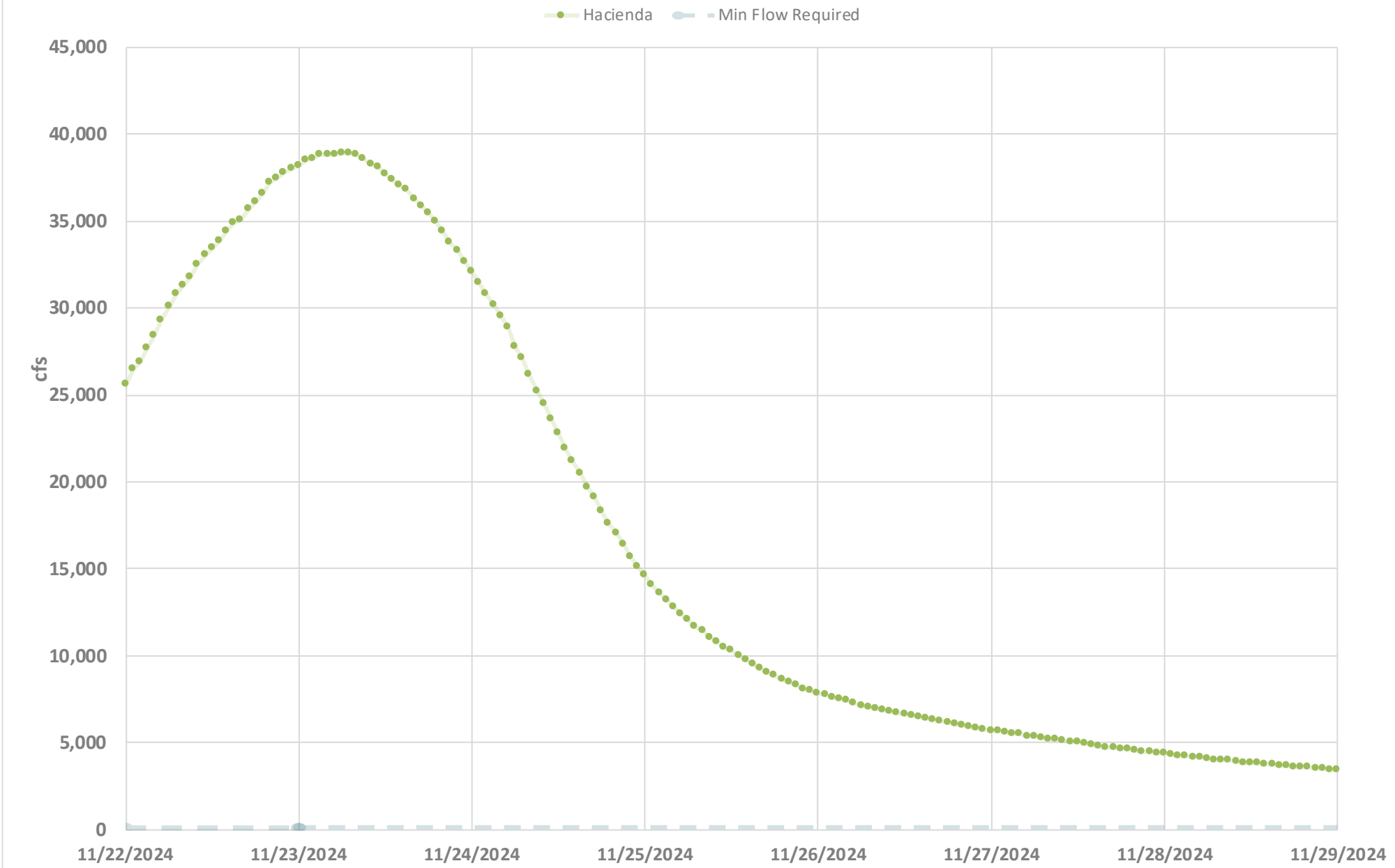
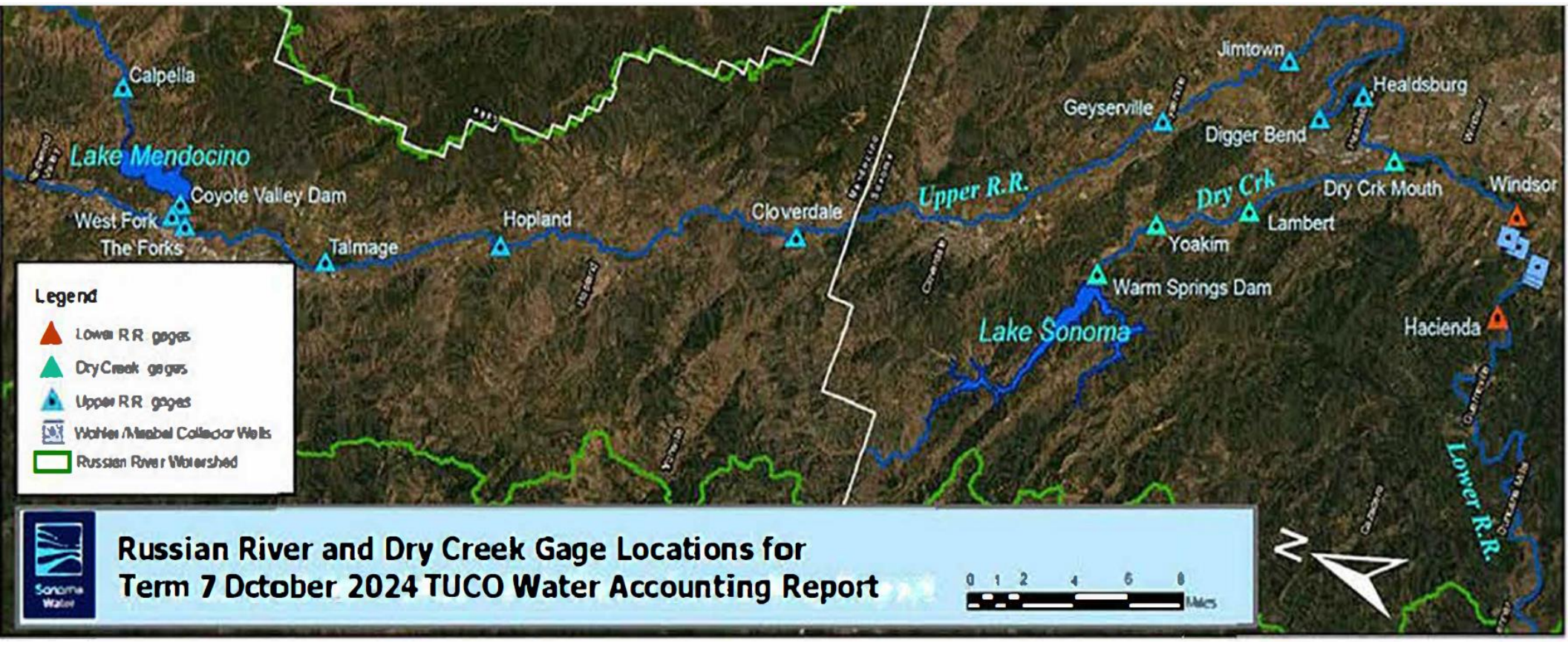
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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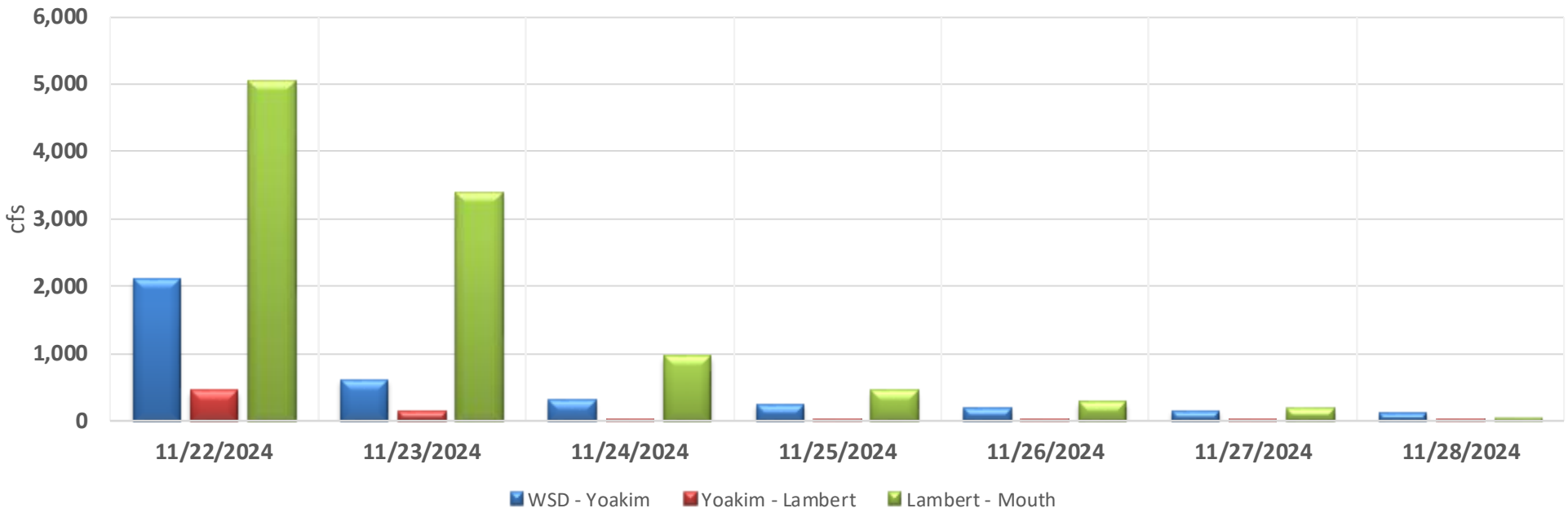
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS