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

Report Date: 11/15/2024

Units are cfs unless noted otherwise

			11/8/2024	11/9/2024	11/10/2024	11/11/2024	11/12/2024	11/13/2024	11/14/2024
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			44.0	44.0	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			4.6	4.6	4.7	4.7	4.7	4.7	4.9
East Fork Release			39.0	39.0	40.0	40.0	40.0	40.0	40.0
PVID E Fork Diversions			0.4	0.4	0.4	0.3	0.3	0.3	0.1
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)			38.6	38.6	39.7	39.7	39.7	39.7	39.9
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			46.0	45.4	45.7	48.3	47.2	49.1	50.1
Net Reach Loss(-)/Gain(+)			+2.0	+1.4	+0.7	+3.3	+2.2	+4.1	+5.1
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)			96	50	98	151	93	151	103
(cfs)			48	25	50	76	47	76	52
Natural Flow			9	0	10	36	7	36	12
Import			39	25	40	40	40	40	40
Storage Change (ac-ft)			-258.0	-303.0	-257.0	-181.0	-226.0	-166.0	-210.0
(cfs)			-130	-153	-130	-91	-114	-84	-106
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)			11.0	9.7	12.2	4.9	7.3	3.6	4.8
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			173	173	173	165	157	158	155
Storage (Project Water)			125	148	123	89	110	82	103
Natural Flow			9	0	10	36	7	36	12
Import Water			39	25	40	40	40	40	40
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	173	173	173	165	157	158	155
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			48	25	50	76	47	76	52
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			161	161	160	166	158	159	158
Controlling Gage			Healdsburg	Healdsburg	Healdsburg	Forks	Forks	Forks	Forks
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	174	174	174	166	158	159	158
Talmage	(USGS 11462080)	*96.1*	169	170	175	172	162	166	167
Hopland	(USGS 11462500)	*84.8*	205	205	208	211	198	201	203
Cloverdale	(USGS 11463000)	*70.9*	174	174	176	183	173	172	177
Geyserville	(USGS 11463500)	*54.4*	168	167	168	177	180	172	180
Jimtown	(USGS 11463682)	*48.5*	172	172	172	180	185	180	185
Digger Bend	(USGS 11463980)	*38.2*	169	169	167	173	174	171	173
Healdsburg	(USGS 11464000)	*35.6*	161	161	160	167	171	170	171
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			-5	-4	+1	+3	+4	+7	+9
Talmage - Hopland			+36	+36	+34	+35	+37	+37	+36
Hopland - Cloverdale			-31	-31	-31	-27	-29	-27	-27
Cloverdale - Jimtown			-2	-2	-2	+4	+0	+11	+11
Jimtown - Digger Bend			-3	-4	-5	-4	-11	-10	-10
Digger Bend - Healdsburg **when Digger Bend > 400 cfs, next u/s gage (Jimtown) used*			-8	-8	-7	-4	-3	-2	-1
Upper Russian Net Reach Loss/Gain			-13	-12	-10	+6	-3	+15	+18
CVD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss(-)/Gain(+) to Controlling Gage			-13	-12	-10	+0	+0	+0	+0
Storage (Project Water)			-13	-12	-10	0	0	0	0
Pass-through Water (Nat. + Imp.) + Natural			0	0	0	0	0	0	0
Total Pass-through Water			48	25	50	76	47	76	52
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).

			11/8/2024	11/9/2024	11/10/2024	11/11/2024	11/12/2024	11/13/2024	11/14/2024
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			-247.0	-272.0	-247.0	-148.0	-222.0	-123.0	-148.0
(cfs)			-125	-137	-125	-75	-112	-62	-75
Evaporation (ac-ft)			11.9	11.9	9.9	5.9	7.9	3.9	7.9
Inflow (Natural Flow)			0	0	0	38	0	46	35
WSD Release Gage			110	110	111	110	108	106	106
Storage (Project Water)			110	110	111	72	108	60	71
Natural Flow			0	0	0	38	0	46	35
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			105	105	105	105	105	105	105
Controlling Compliance Gage									
Min Gage Flow			110	110	111	110	108	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*	110	110	111	110	108	106	106
Yoakim	(USGS 11465200)	*11.1*	120	120	119	124	119	114	114
Lambert	(USGS 11465240)	*6.8*	124	124	124	127	125	123	122
Dry Crk Mouth	(USGS 11465350)	*0.1*	120	120	120	123	122	119	119
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			0	0	0	38	0	46	35
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+19	+18	+19	+23	+18	+13	+13
Yoakim - Lambert			+4	+4	+5	+3	+5	+9	+9
Lambert - Dry Crk Mouth			-4	-4	-4	-3	-4	-4	-4
WSD - Dry Crk Mouth			+19	+19	+19	+23	+20	+18	+18
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			Yes	Yes	Yes	Yes	Yes	Yes	Yes
VI. Russian River - Dry Creek Confluence									
Upper Russian River Flow (Healdsburg Gage)									
L. Mendocino Project Water + Import Water			161	161	160	126	150	118	141
Natural Flow			0	0	0	42	4	51	30
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			110	110	111	72	108	60	71
Natural Flow			19	19	19	62	20	64	53
Russian River d/s of Confluence Flow			281	280	281	291	293	288	290
L. Mendocino Project Water + Import Water			161	161	160	126	150	118	141
L. Sonoma Project Water			110	110	111	72	108	60	71
Natural Flow			19	19	19	103	24	115	83
VII. Lower Russian River Reach									
Minimum Instream Flow Requirement			125	125	125	125	125	125	125
Controlling Compliance Gage									
Min Gage Flow			201	201	201	206	219	224	220
Controlling Gage			Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages		*Rvr mi.*							
Windsor	(USGS 11465390)	*26.6*	*242*	*242*	*242*	*242*	*242*	*242*	*242*
Hacienda	(USGS 11467000)	*21.8*	201	201	201	206	219	224	220
Confluence to Windsor Reach Analysis									
Net Reach Loss/Gain to Windsor Gage			-39	-38	-38	-45	-51	-47	-48
L. Mendocino Project Water + Import Water			161	161	160	126	150	118	141
L. Sonoma Project Water			107	107	108	69	105	57	65
Natural Flow			0	0	0	58	0	68	35
Confluence to SCWA Wohler Production Facility Reach Analysis									
Approx. Flow u/s of Wohler			273	274	263	278	287	290	287
Net Reach Loss(-)/Gain(+)			-8	-6	-18	-13	-7	+2	-3
L. Mendocino Project Water + Import Water			161	161	160	126	150	118	141
L. Sonoma Project Water			107	107	108	69	105	57	65
Natural Flow			11	13	2	91	17	117	80
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			-80	-79	-80	-84	-74	-64	-70
L. Mendocino Project Water + Import Water			161	161	160	126	150	118	141
L. Sonoma Project Water			35	34	46	0	38	0	0
Natural Flow			11	13	2	88	17	108	78
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			142.5	145.7	123.1	142.1	133.5	130.5	132.6
Wohler			44.8	49.4	53.7	57.1	51.7	39.5	48.1
Mirabel			97.7	96.3	69.4	85.0	81.8	91.0	84.5
Town of Windsor River Wellfield			6.4	5.8	5.9	5.8	5.2	5.2	10.6
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

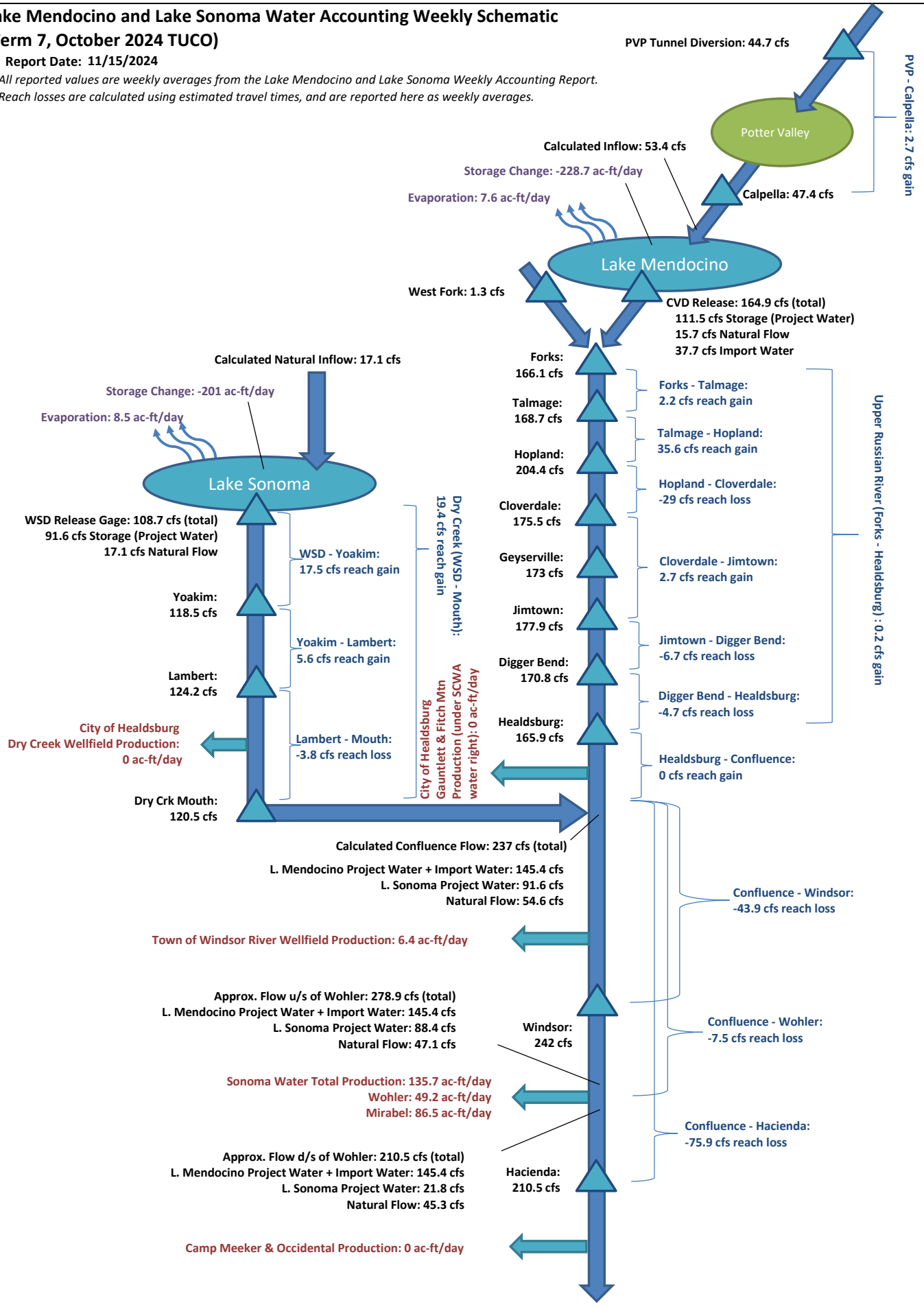
Notes:

- 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: 11/15/2024

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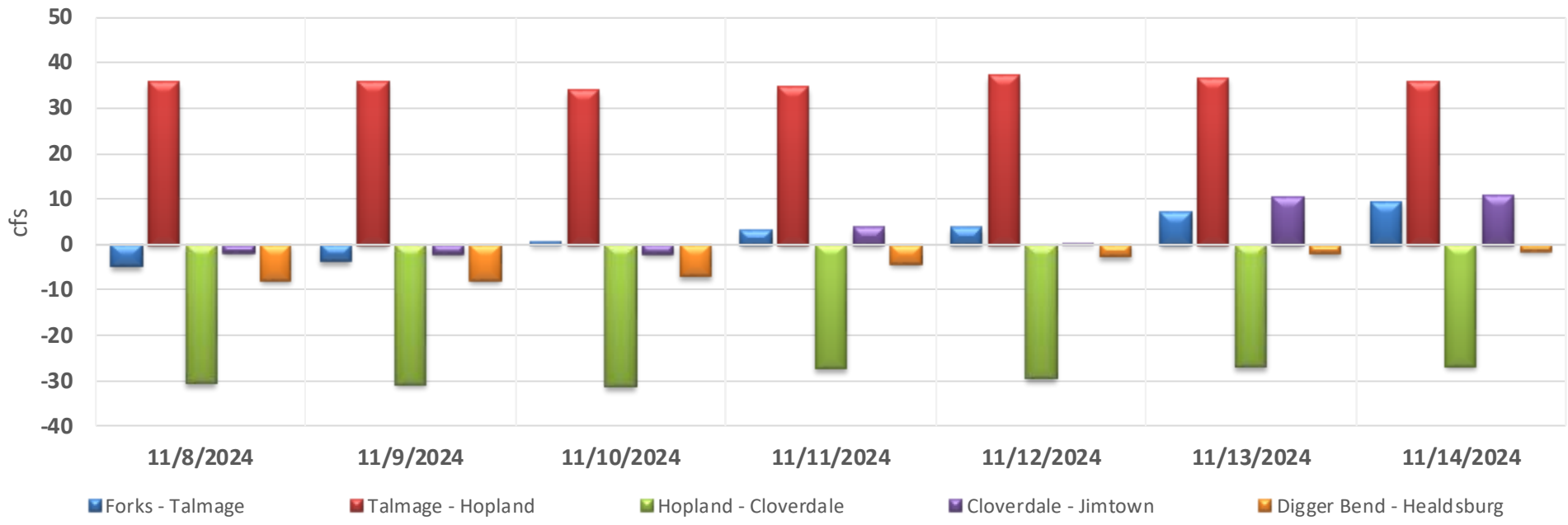
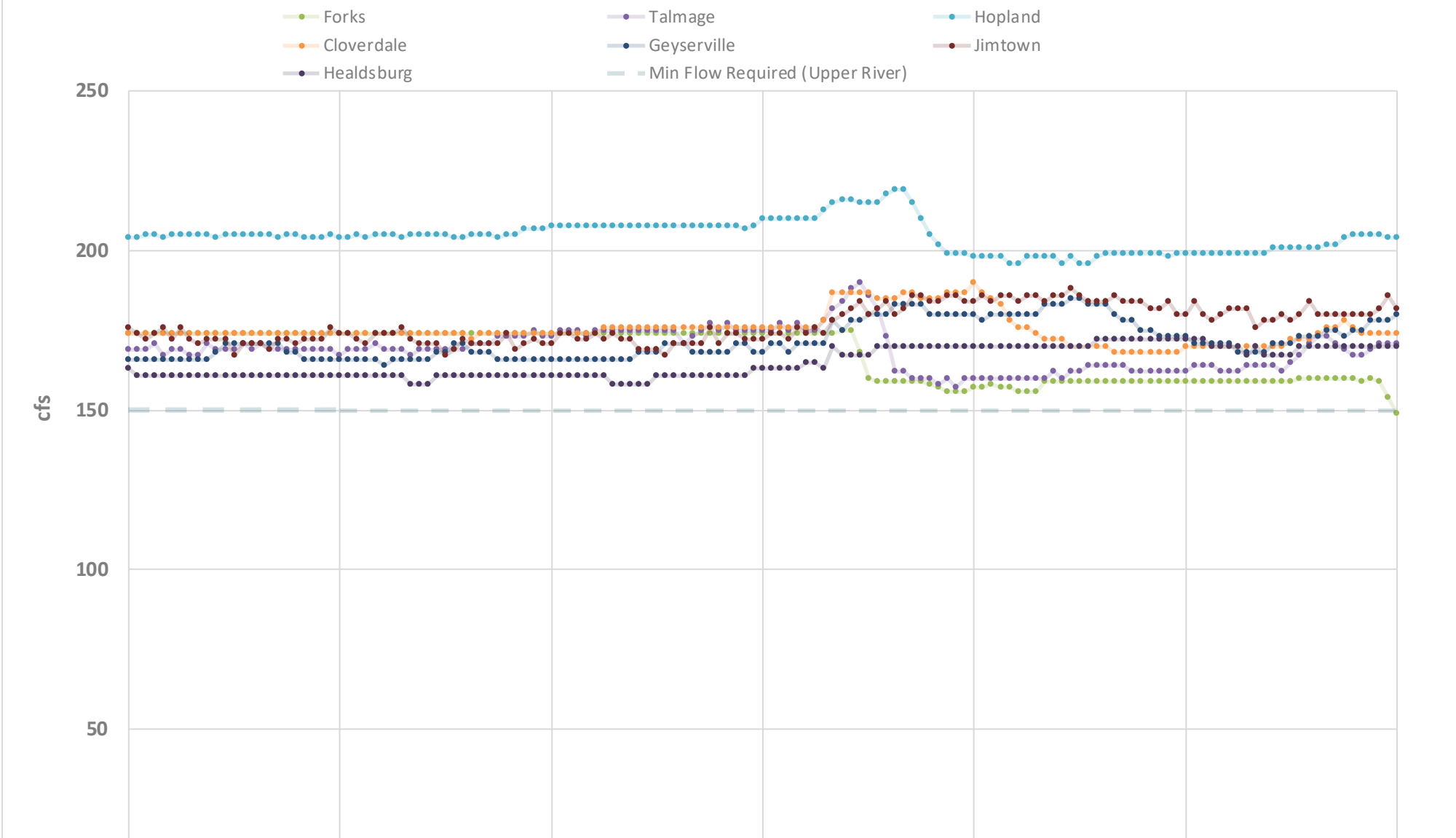
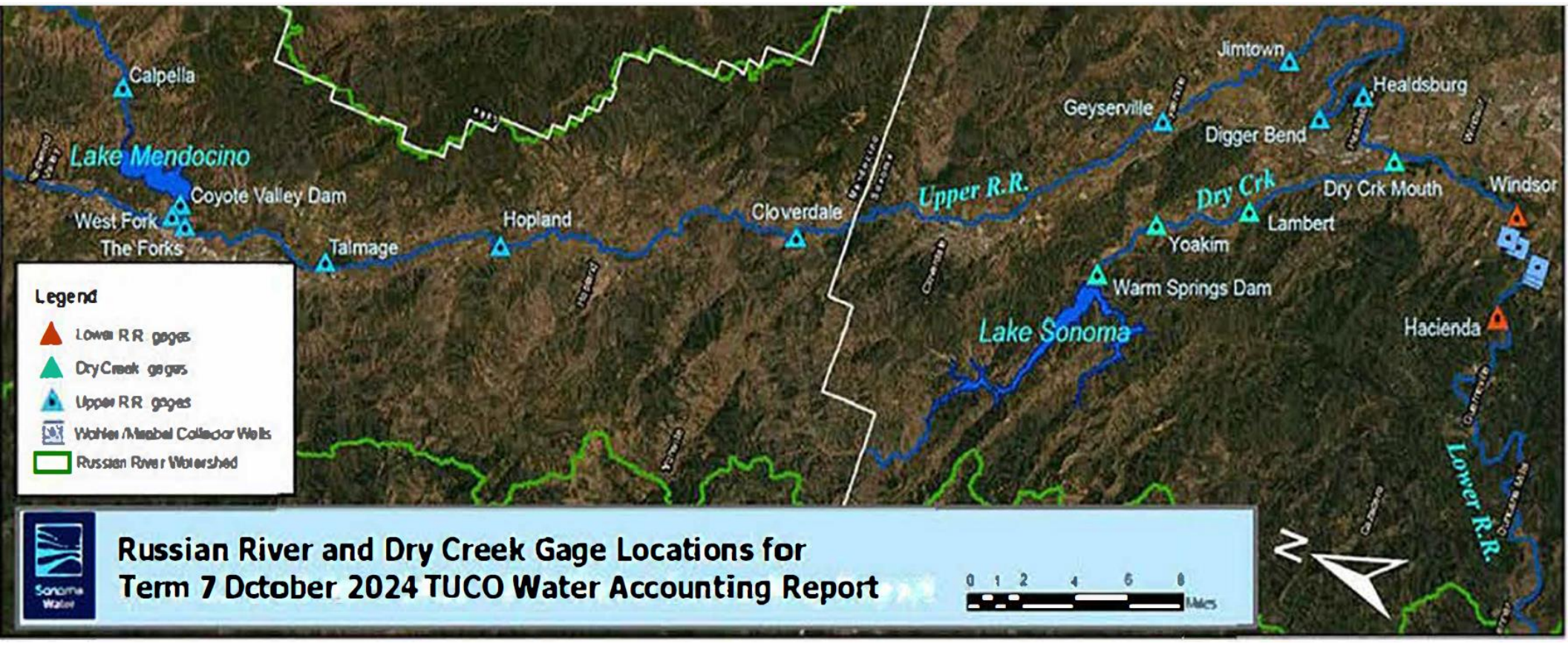
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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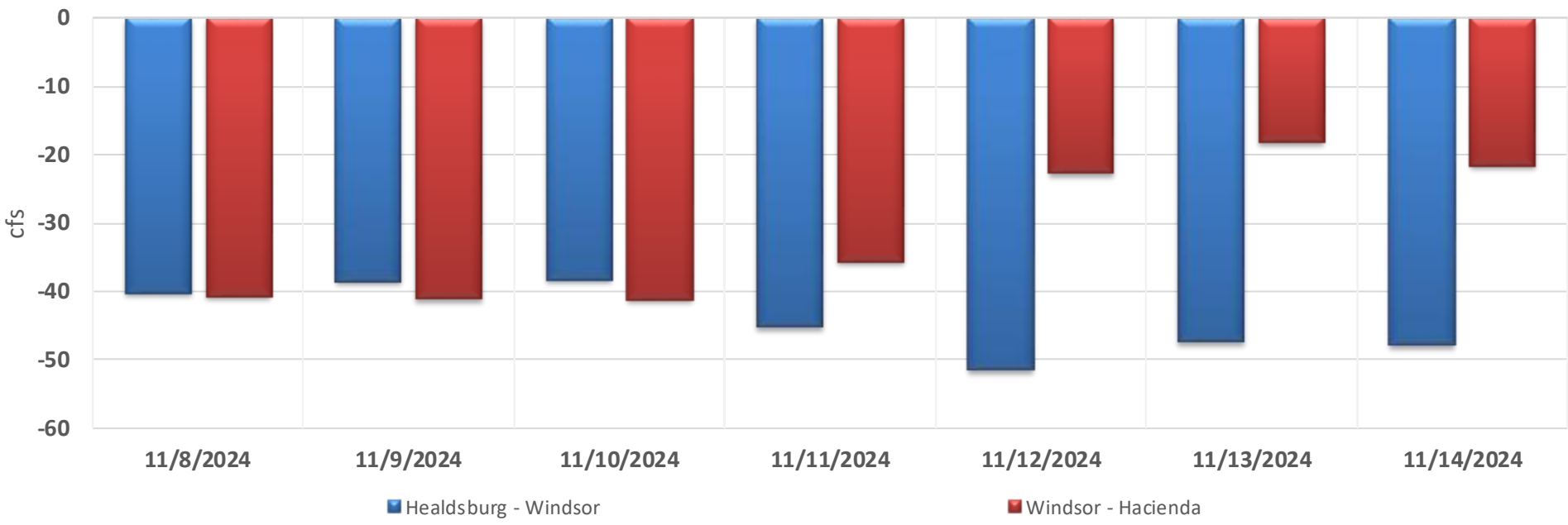
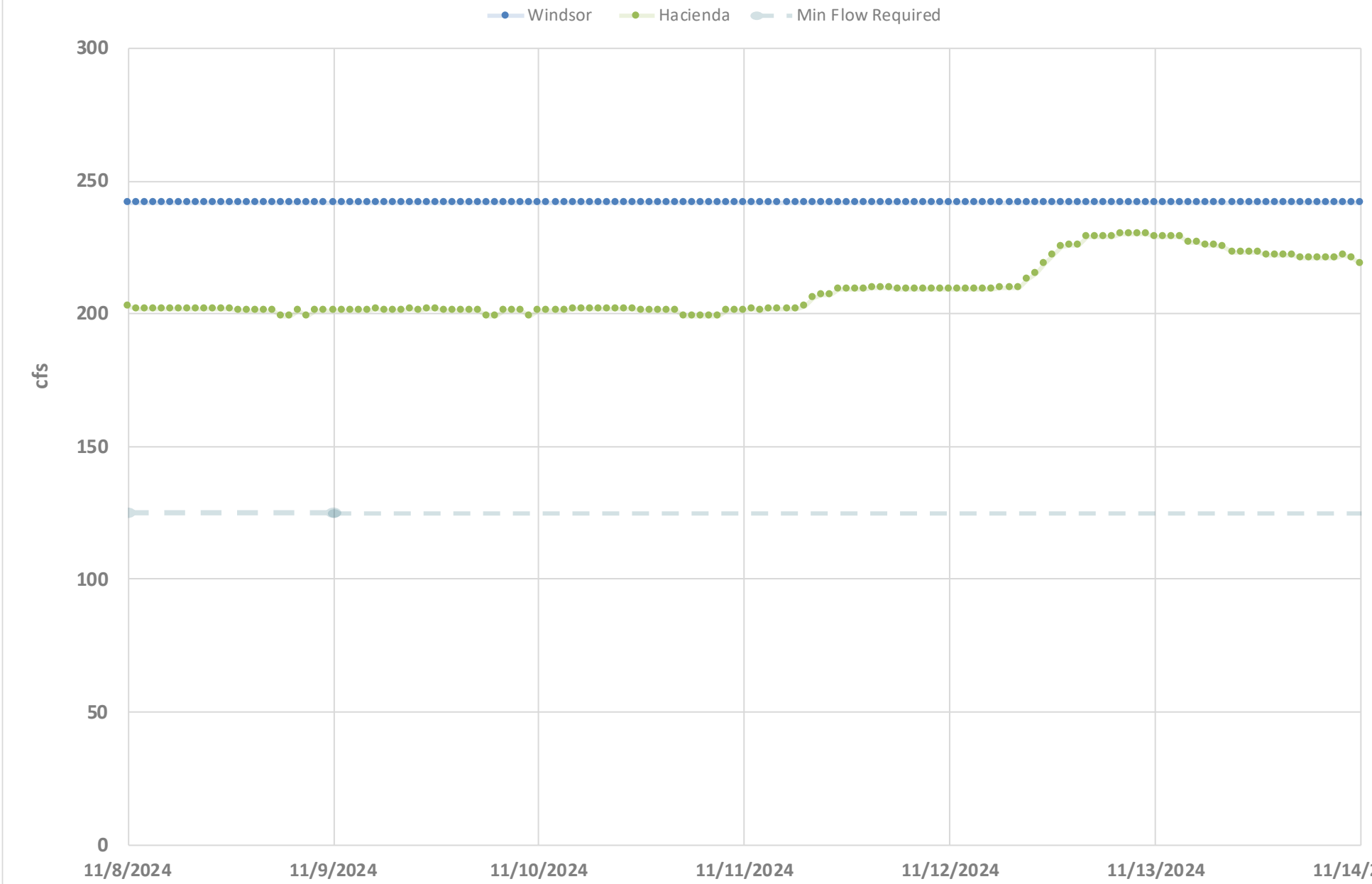
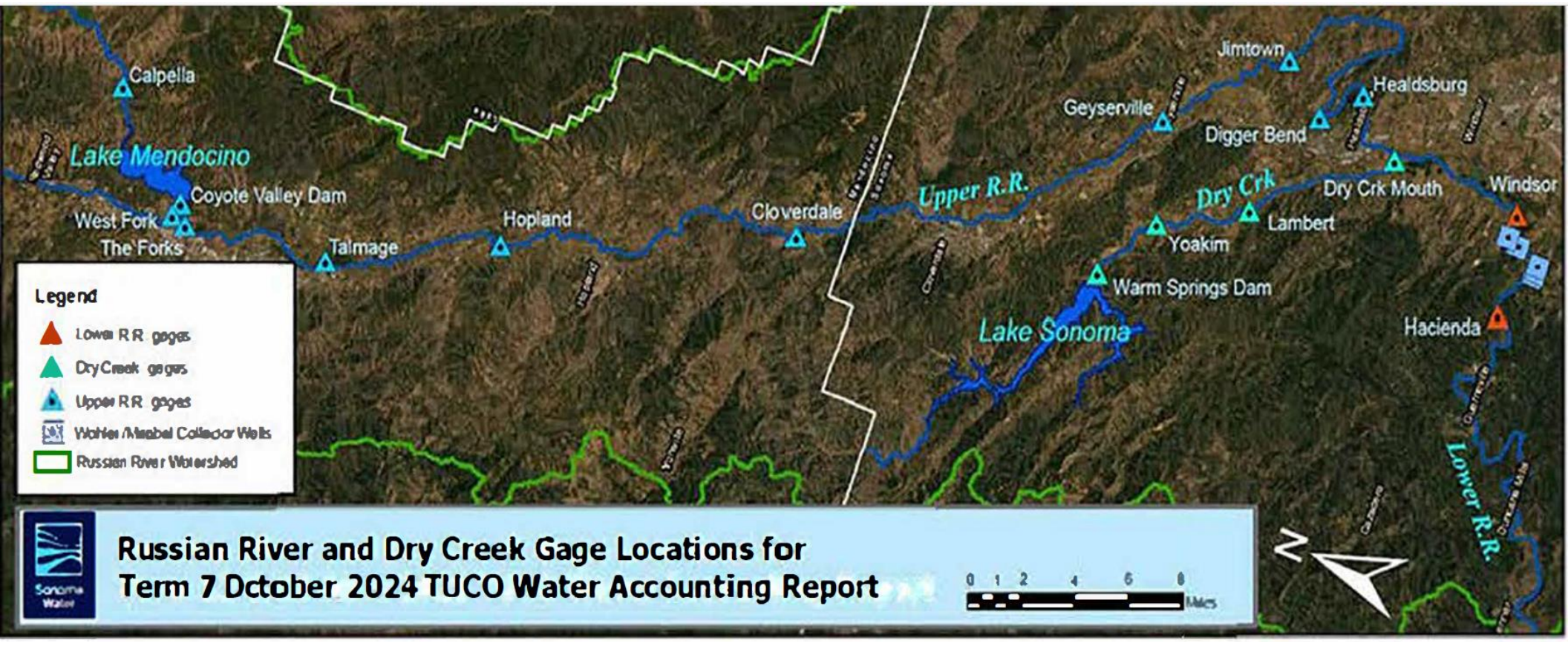
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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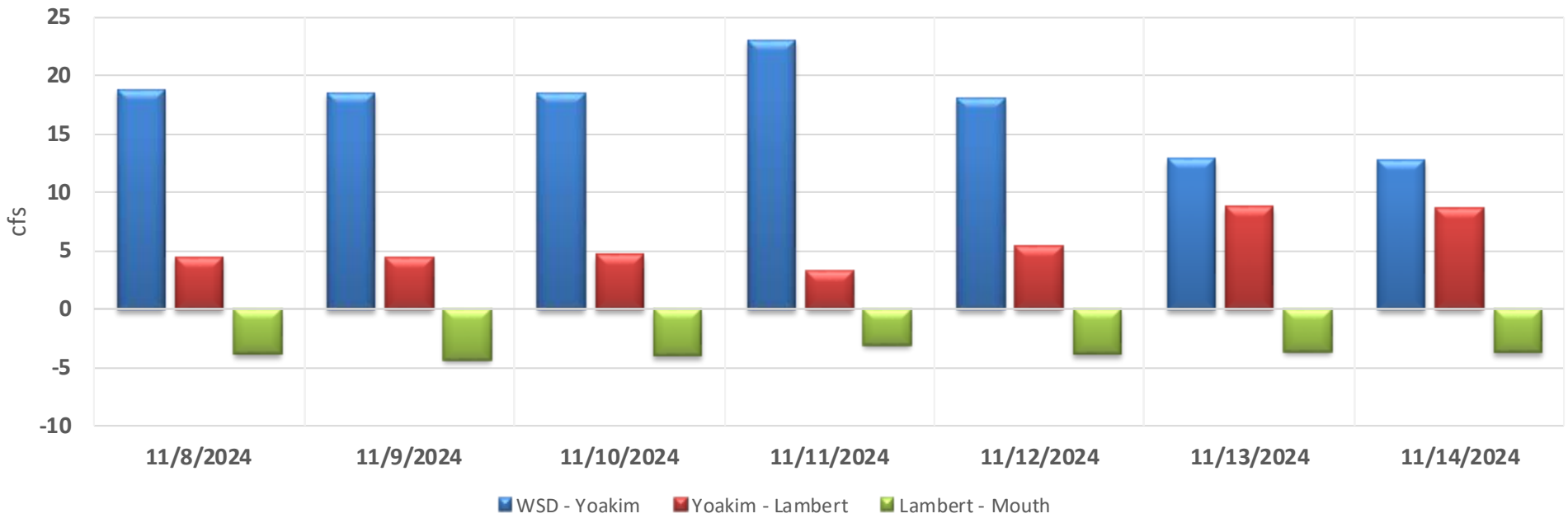
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS