

Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 14, June 2022 TUCO)

Report Date: 6/24/2022

Units are cfs unless noted otherwise

	6/17/2022	6/18/2022	6/19/2022	6/20/2022	6/21/2022	6/22/2022	6/23/2022		
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion	111.0	111.0	111.0	110.0	111.0	112.0	114.0		
PVID Requested Delivery	30.0	30.0	30.0	30.0	30.0	30.0	33.3		
PVID Canals Actual Delivery	15.0	15.0	15.0	12.0	10.0	10.0	12.0		
East Fork Release	96.0	96.0	96.0	98.0	101.0	102.0	102.0		
PVID E Fork Diversions	15.0	15.0	15.0	18.0	20.0	20.0	21.3		
PVID Water Use - PG&E Contract	30.0	30.0	30.0	30.0	30.0	30.0	33.3		
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)	81.0	81.0	81.0	80.0	81.0	82.0	80.7		
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	86.1	86.3	91.9	97.8	90.8	94.0	98.1		
Net Reach Loss(-)/Gain(+)	-24.9	-24.8	-19.1	-12.2	-20.2	-18.0	-15.9		
Unimpaired Natural Flow @ Calpella (est.)	5.1	5.3	10.9	17.8	9.8	12.0	17.5		
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 (neg. value is return flow)	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
II. Lake Mendocino									
Reservoir Operations									
Calculated Inflow (ac-ft)	172	169	179	172	178	190	209		
(cfs)	87	85	90	87	90	96	106		
Natural Flow	6	5	11	18	10	14	25		
Import	81	80	79	69	80	82	81		
Storage Change (ac-ft)	-90.0	-45.0	+0.0	+30.0	+60.0	+60.0	+61.0		
(cfs)	-45	-23	+0	+15	+30	+30	+31		
Stored Natural Flow (cfs)	0	0	0	15	10	14	25		
Stored Import Water (cfs)	0	0	0	0	20	17	6		
Evaporation (ac-ft)	25.5	28.2	20.9	20.9	22.7	25.5	27.3		
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0		
CVD Release Gage	119	94	80	61	48	53	61		
Storage (Project Water)	33	8	0	0	0	0	0		
Natural Flow	6	5	6	0	0	0	0		
Import Water	81	80	74	61	48	52	61		
East Fork Min Instream Flow Requirement	25	25	25	25	25	25	25		
Compliance Gage		<i>Rvr mi.</i>							
CVD Release		99.9	119	94	80	61	48	53	61
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water	87	85	80	61	48	52	61		
Project Water Release Required	No	No	No	No	No	No	No		
III. Upper Russian River Reach									
Minimum Instream Flow Requirement	75	25	25	25	25	25	25		
Controlling Compliance Gage									
Min Gage Flow	64	66	67	66	41	34	35		
Controlling Gage	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Talmage	Hopland	Cloverdale		
All Compliance Gages									
		<i>Rvr mi.</i>							
Forks (CVD + USGS 11461000)	99.0	127	101	87	68	55	59	67	
Talmage (USGS 11462080)	96.1	118	96	78	67	41	41	53	
Hopland (USGS 11462500)	84.8	105	96	78	69	48	34	40	
Cloverdale (USGS 11463000)	70.9	98	98	88	76	62	41	35	
Geyserville (USGS 11463500)	54.4	76	77	76	68	60	48	37	
Jimtown (USGS 11463682)	48.5	79	82	83	78	70	62	52	
Digger Bend (USGS 11463980)	38.2	68	72	73	71	64	57	53	
Healdsburg (USGS 11464000)	35.6	64	66	67	66	61	56	52	
Net Reach Loss(-)/Gain(+)									
Forks - Talmage	-11	-10	-11	-5	-14	-16	-14		
Talmage - Hopland	-13	-11	-4	-3	-1	-5	-10		
Hopland - Cloverdale	-6	-4	+3	+1	+2	+0	+2		
Cloverdale - Jimtown	-17	-17	-15	-10	-6	+1	+12		
Jimtown - Digger Bend	-10	-9	-10	-9	-9	-7	-2		
Digger Bend - Healdsburg	-3	-4	-5	-7	-6	-3	-2		
Upper Russian Net Reach Loss/Gain	-60	-56	-42	-33	-33	-30	-16		
CVD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss(-)/Gain(+) to Controlling Gage	-60	-56	-42	-33	-14	-21	-23		
Storage (Project Water)	-33	-8	-0	-0	-0	-0	-0		
Pass-through Water (Nat. + Imp.) + Natural	-93	-64	-42	-33	-14	-21	-23		
Total Pass-through Water	0	21	38	28	34	31	38		
Project Water Release Required	Yes	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).

	6/17/2022	6/18/2022	6/19/2022	6/20/2022	6/21/2022	6/22/2022	6/23/2022
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-371.0	-370.0	-299.0	-228.0	-193.0	-193.0	-192.0
(cfs)	-187	-187	-151	-115	-97	-97	-97
Evaporation (ac-ft)	23.3	27.5	30.6	31.6	34.7	33.6	30.5
Inflow (Natural Flow)	0	0	0	6	3	0	0
WSD Release Gage	162	152	129	105	83	75	80
Storage (Project Water)	162	152	129	99	80	75	80
Natural Flow	0	0	0	6	3	0	0

V. Lower Dry Creek Reach							
Minimum Instream Flow Requirement	80	80	80	80	80	80	80
Controlling Compliance Gage							
Min Gage Flow	162	152	129	105	83	75	71
Controlling Gage	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	WSD Release	Dry Crk Mouth
All Compliance Gages							
	<i>Crk mi.</i>						
WSD Release	14.3	162	152	129	105	83	75
Yoakim (USGS 11465200)	11.1	174	168	147	120	92	77
Lambert (USGS 11465240)	6.8	186	182	162	137	110	90
Dry Crk Mouth (USGS 11465350)	0.1	162	161	147	127	102	78
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	0	0	0	6	3	0	0
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+12	+13	+15	+12	+7	+1	+2
Yoakim - Lambert	+12	+13	+13	+14	+15	+13	+11
Lambert - Dry Crk Mouth	-24	-24	-19	-16	-14	-14	-18
WSD - Dry Crk Mouth	+0	+2	+9	+11	+8	+1	-6
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	+0	+0	+0	+0	+0	+0	-6
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	64	66	67	61	48	53	52
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	162	152	129	99	80	75	80
Natural Flow	0	9	19	28	22	3	0
Russian River d/s of Confluence Flow							
L. Mendocino Project Water + Import Water	64	66	67	61	48	53	52
L. Sonoma Project Water	162	152	129	99	80	75	80
Natural Flow	0	9	19	28	22	3	0

VII. Lower Russian River Reach							
Minimum Instream Flow Requirement	125	35	35	35	35	35	35
Controlling Compliance Gage							
Min Gage Flow	138	143	140	129	109	86	66
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	284.8	288.3	281.9	271.6	265.7	244.7
Hacienda (USGS 11467000)	21.8	138	143	140	129	109	86
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	+59	+61	+63	+71	+93	+103	+56
L. Mendocino Project Water + Import Water	64	66	67	61	48	53	52
L. Sonoma Project Water	158	147	125	94	75	70	76
Natural Flow	59	70	81	98	116	106	56
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	210	231	232	202	185	188	164
Net Reach Loss(-)/Gain(+)	-16	+4	+17	+9	+22	+54	+41
L. Mendocino Project Water + Import Water	64	66	67	61	48	53	52
L. Sonoma Project Water	158	147	125	94	75	70	76
Natural Flow	0	13	36	37	45	57	41
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-88	-84	-75	-64	-54	-48	-57
L. Mendocino Project Water + Import Water	64	66	67	61	48	53	52
L. Sonoma Project Water	86	60	33	21	0	0	0
Natural Flow	0	13	36	37	43	25	18

VIII. Water Production under Sonoma Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	142.8	174.2	182.3	145.6	151.4	202.0	195.5
Wohler	47.6	54.8	55.6	55.1	55.1	117.2	62.6
Mirabel	95.2	119.4	126.7	90.4	96.3	84.8	132.9
Town of Windsor River Wellfield	8.8	8.6	7.9	9.6	9.6	10.4	9.4
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

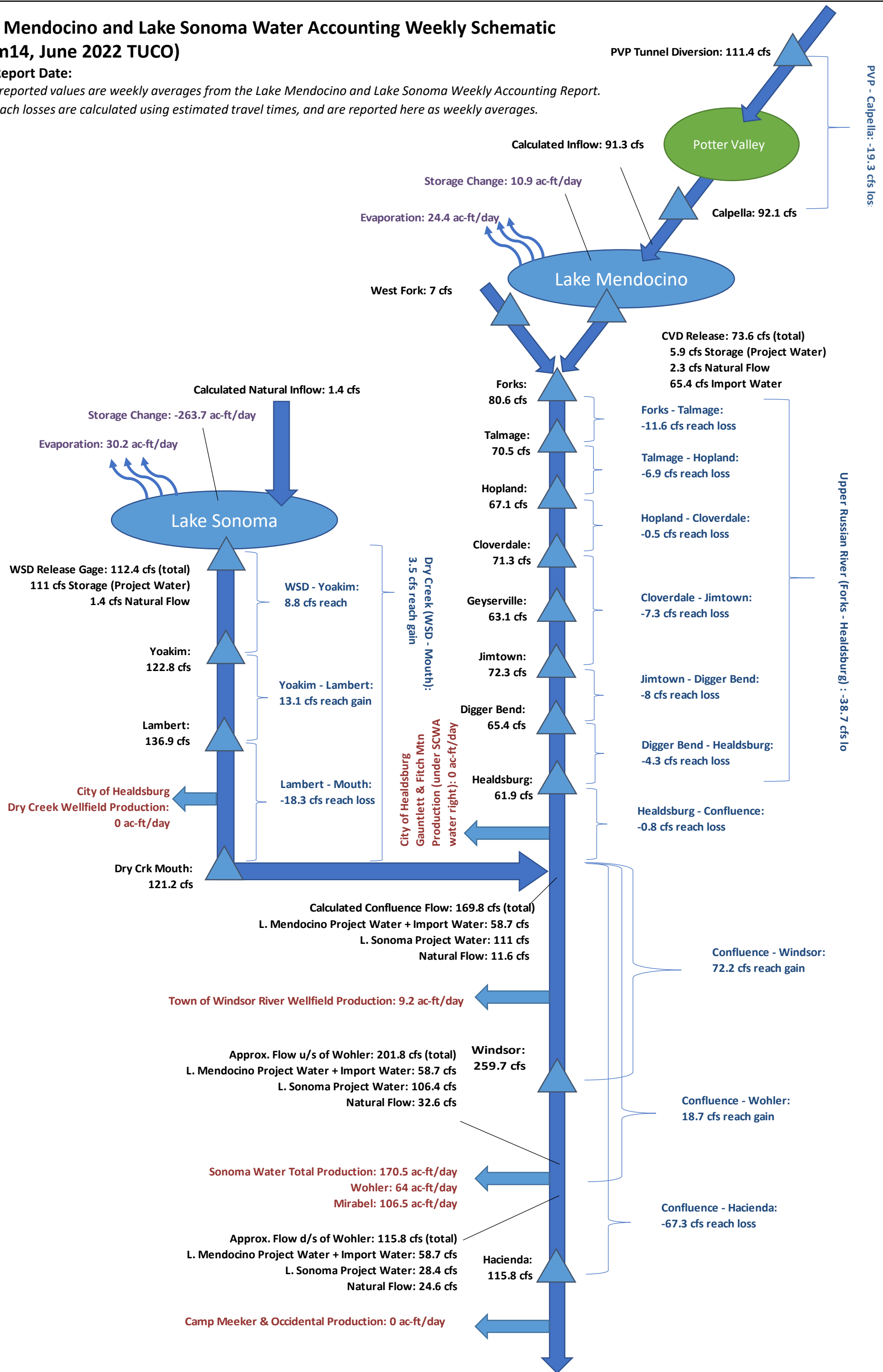
Notes:

- 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 (Term14, June 2022 TUCO)

Report Date:

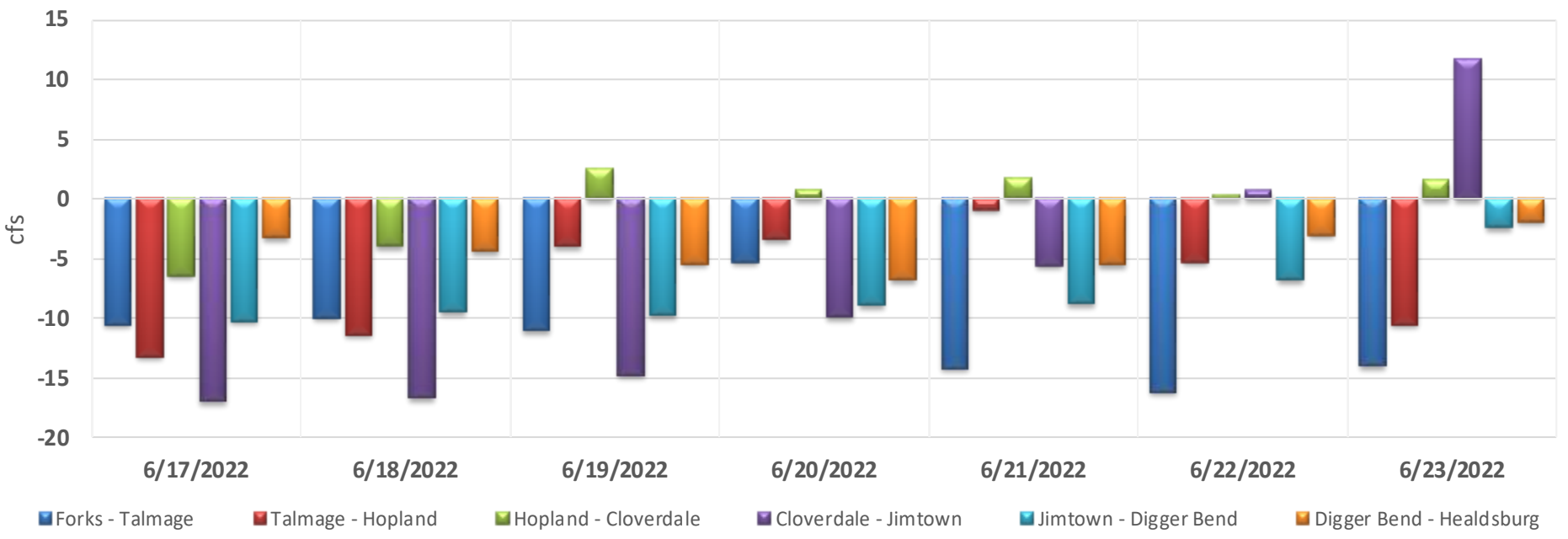
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



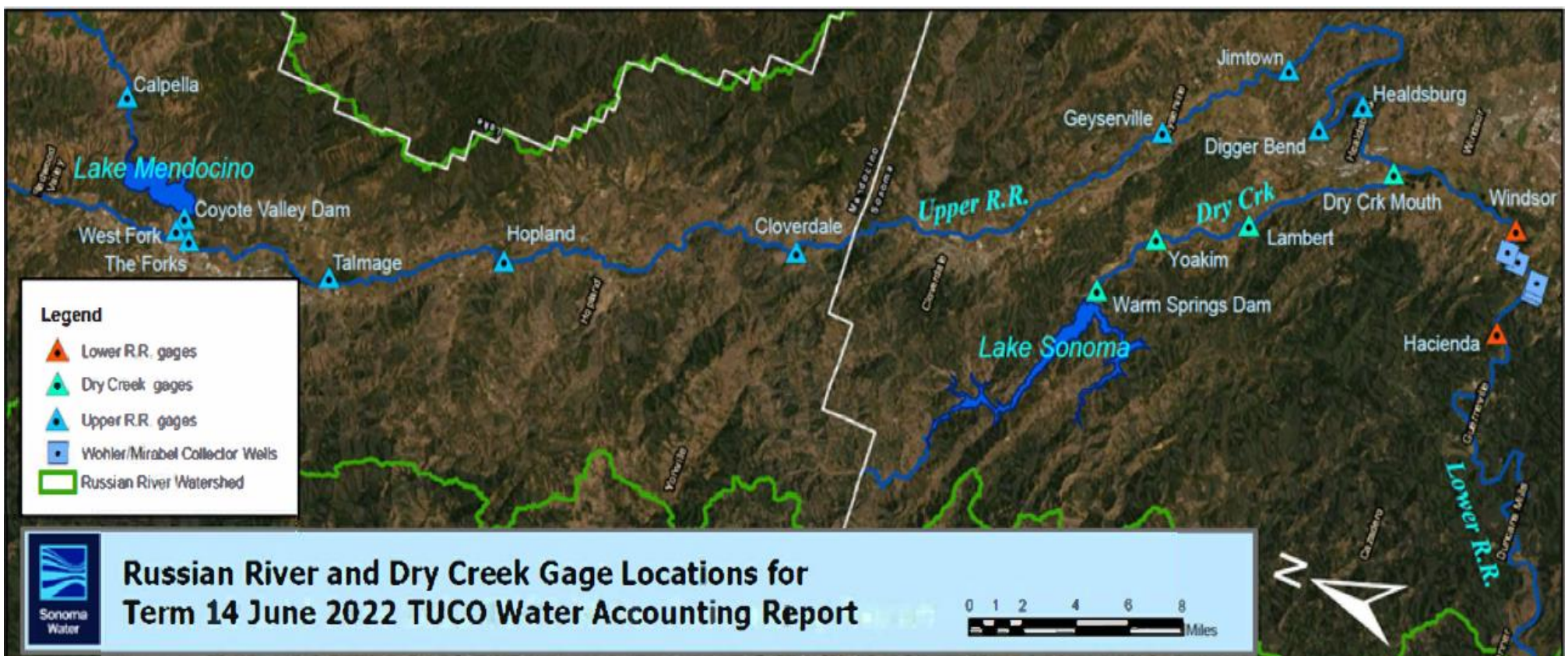
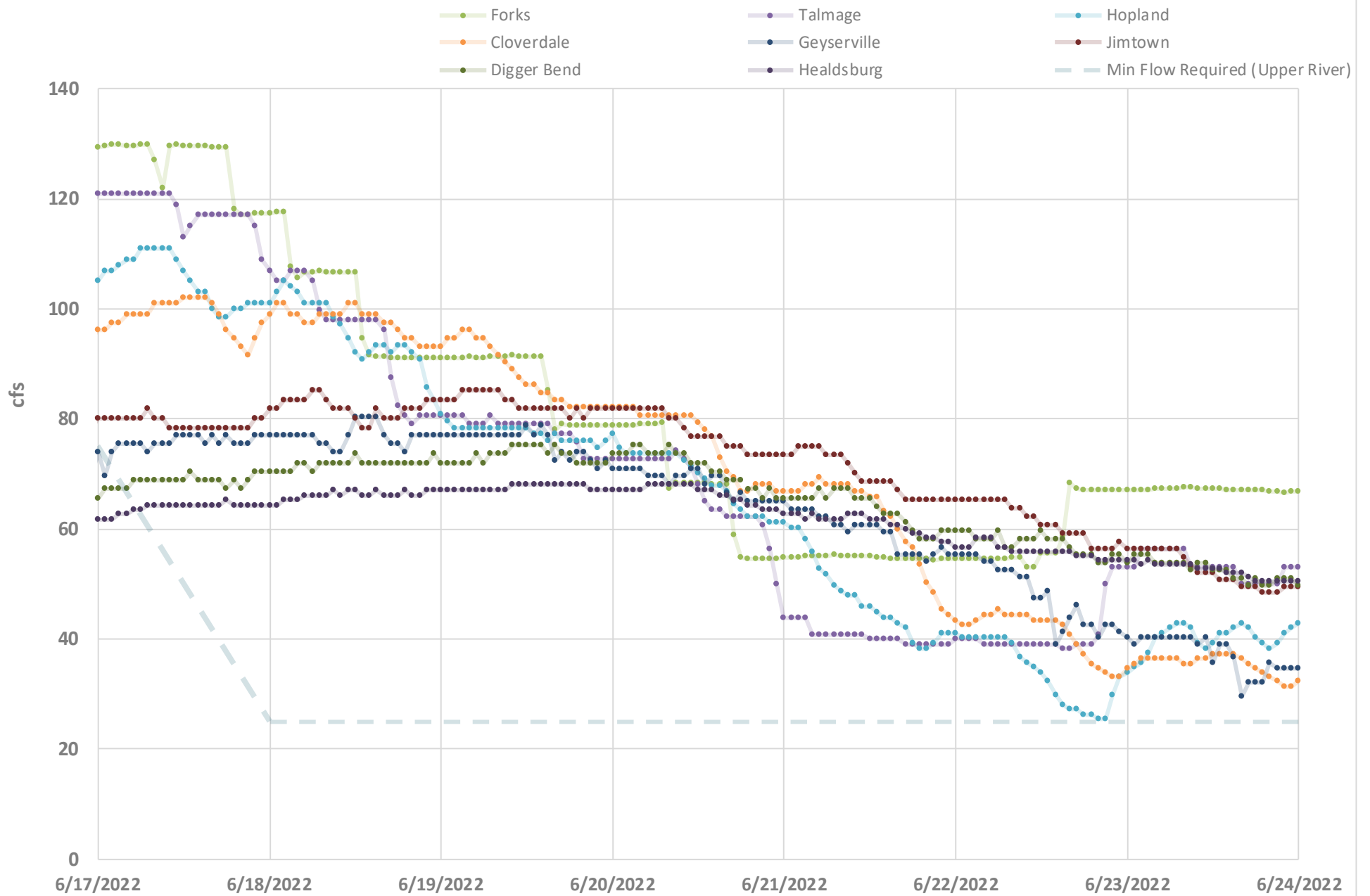
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UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



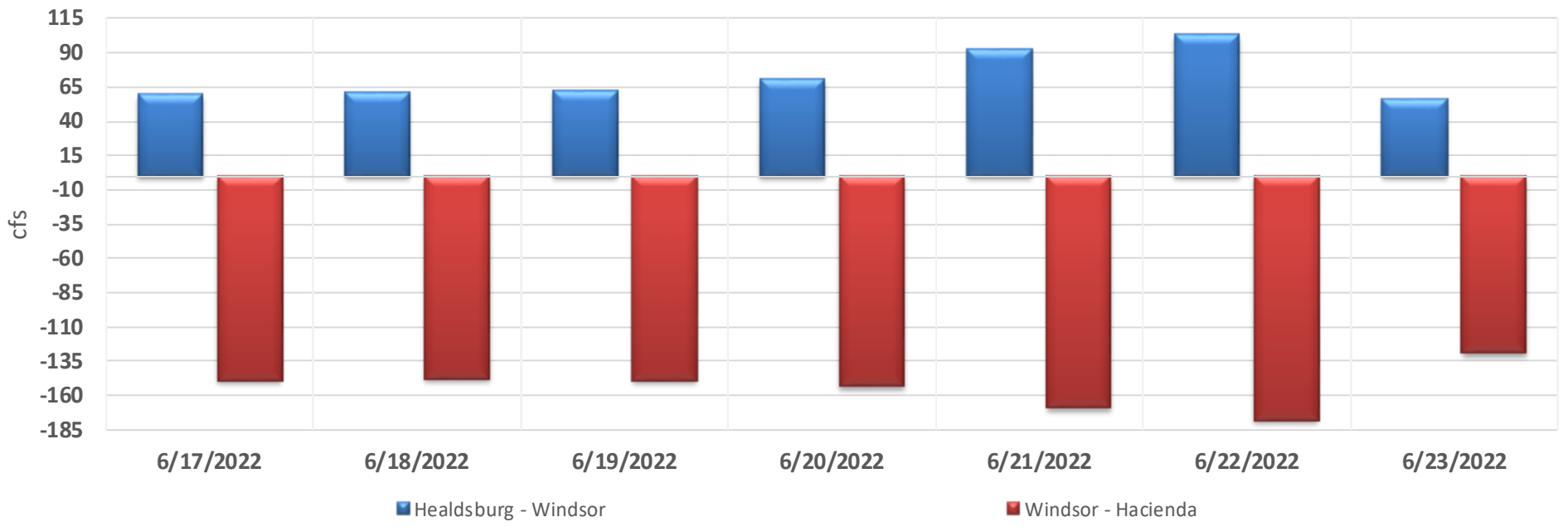
UPPER RUSSIAN RIVER STREAM FLOWS



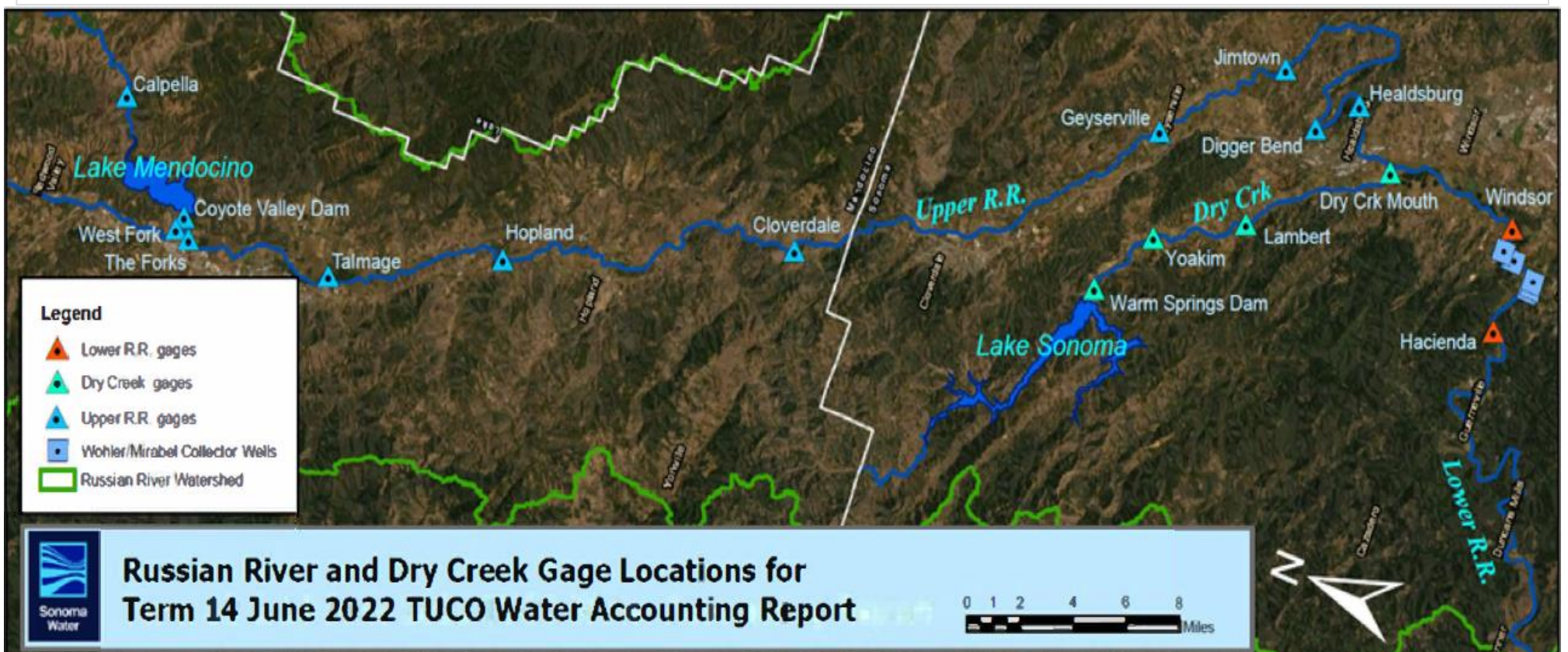
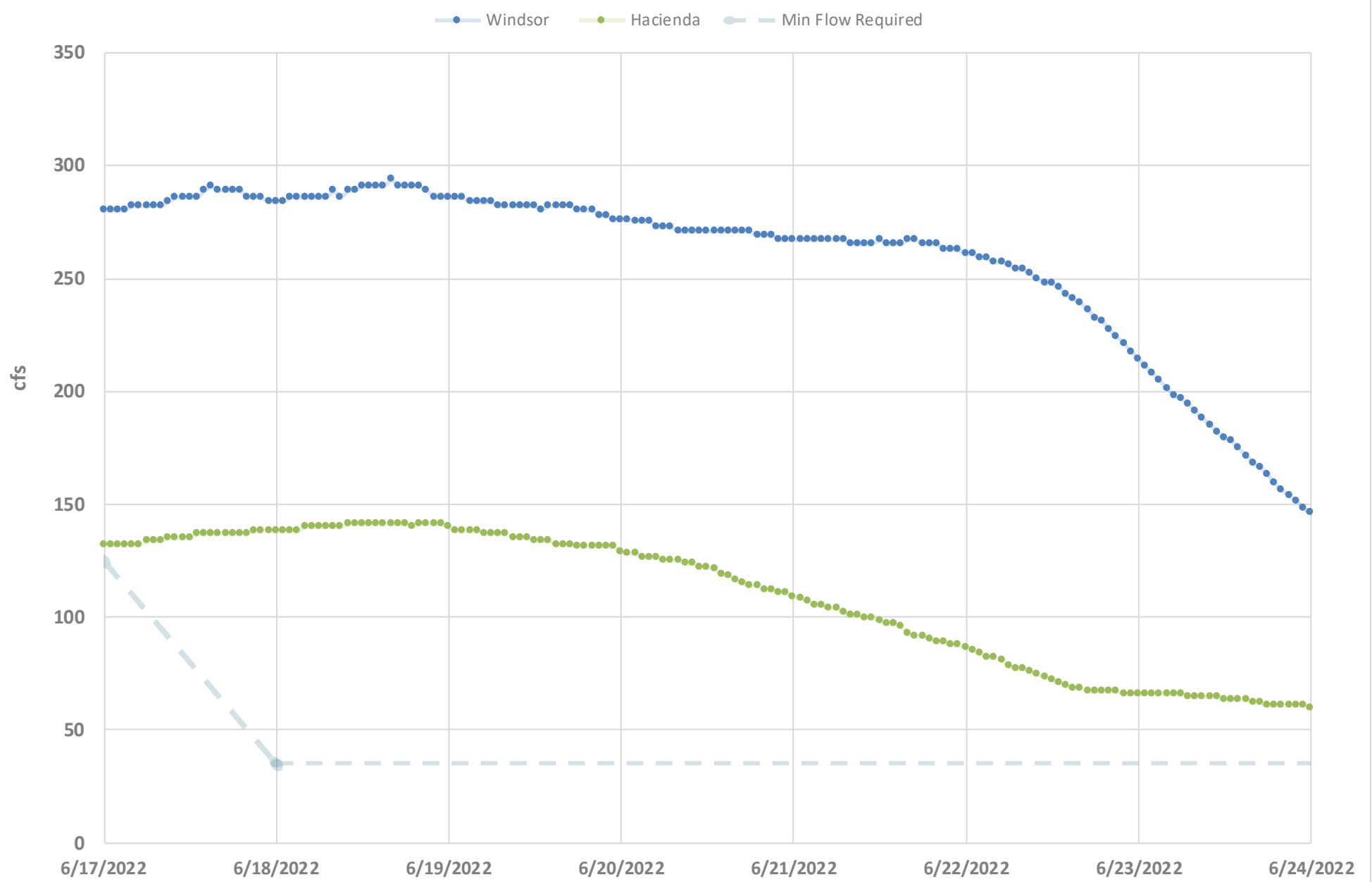
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LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



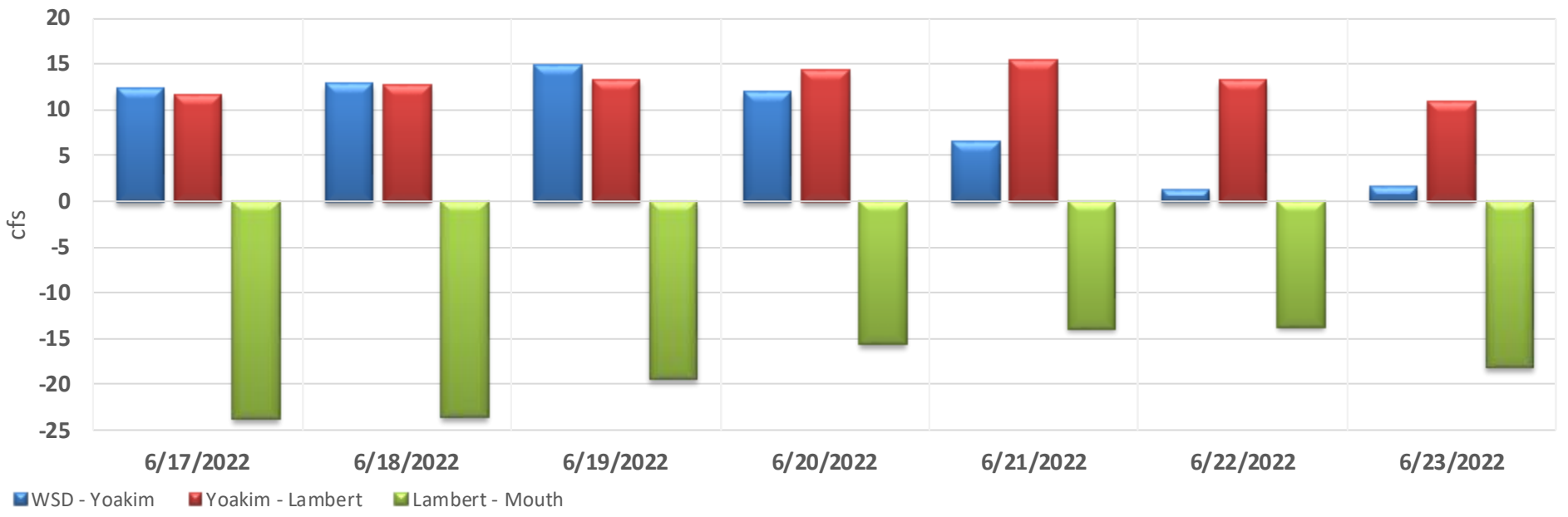
LOWER RUSSIAN RIVER STREAM FLOWS



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



DRY CREEK STREAM FLOWS

