

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

Report Date: 7/1/2022

Units are cfs unless noted otherwise

	6/24/2022	6/25/2022	6/26/2022	6/27/2022	6/28/2022	6/29/2022	6/30/2022
<b>I. Upper East Fork Reach</b>							
<b>Potter Valley Project</b>							
Tunnel Diversion	115.0	115.0	116.0	118.0	120.0	120.0	120.0
PVID Requested Delivery	35.0	35.0	35.0	38.2	40.0	40.0	40.0
PVID Canals Actual Delivery	13.0	13.0	14.0	18.0	20.8	21.0	23.0
East Fork Release	102.0	102.0	102.0	98.0	99.0	99.0	97.0
PVID E Fork Diversions	22.0	22.0	21.0	20.2	19.2	19.0	17.0
PVID Water Use - PG&E Contract	35.0	35.0	35.0	38.2	40.0	40.0	40.0
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)	80.0	80.0	81.0	77.8	79.8	80.0	80.0
PVID Canal Net Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>East Fork / Potter Valley Reach Analysis</b>							
USGS E Fork @ Calpella	93.8	98.7	92.1	102.7	106.1	98.2	92.8
Net Reach Loss(-)/Gain(+)	-21.2	-16.3	-23.9	-15.3	-13.9	-21.8	-27.2
Unimpaired Natural Flow @ Calpella (est.)	13.8	18.7	11.1	22.9	26.1	18.2	12.8
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)	197	210	167	213	199	203	185
(cfs)	99	106	84	107	100	102	93
Natural Flow	19	26	11	28	26	22	13
Import	80	80	73	80	74	80	80
Storage Change (ac-ft)	+45.0	+60.0	+15.0	+61.0	+45.0	+30.0	+15.0
(cfs)	+23	+30	+8	+31	+23	+15	+8
Stored Natural Flow (cfs)	19	26	8	28	23	15	8
Stored Import Water (cfs)	3	4	0	3	0	0	0
Evaporation (ac-ft)	30.9	29.1	31.0	31.0	32.8	32.8	31.0
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	61	61	61	61	61	71	70
Storage (Project Water)	0	0	0	0	0	0	0
Natural Flow	0	0	0	0	0	0	0
Import Water	61	61	61	61	61	71	70
<b>East Fork Min Instream Flow Requirement</b>	25	25	25	25	25	25	25
<b>Compliance Gage</b>	<i>Rvr mi.</i>						
CVD Release	99.9	61	61	61	61	71	70
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Total Pass-through Water	61	61	61	61	61	71	70
Project Water Release Required	No	No	No	No	No	No	No

## III. Upper Russian River Reach

### Minimum Instream Flow Requirement

#### Controlling Compliance Gage

Min Gage Flow	35	34	34	32	30	26	27
Controlling Gage	Geyserville	Geyserville	Geyserville	Geyserville	Geyserville	Geyserville	Geyserville

#### All Compliance Gages

	<i>Rvr mi.</i>						
Forks (CVD + USGS 11461000)	99.0	63	63	63	62	62	71
Talmage (USGS 11462080)	96.1	52	51	52	51	52	58
Hopland (USGS 11462500)	84.8	44	43	45	42	41	41
Cloverdale (USGS 11463000)	70.9	44	42	40	38	35	40
Geyserville (USGS 11463500)	54.4	35	34	34	32	30	27
Jimtown (USGS 11463682)	48.5	46	43	42	41	38	33
Digger Bend (USGS 11463980)	38.2	45	41	40	39	36	31
Healdsburg (USGS 11464000)	35.6	43	40	38	38	36	32

### Net Reach Loss(-)/Gain(+)

Forks - Talmage	-10	-11	-11	-11	-10	-11	-13
Talmage - Hopland	-9	-9	-7	-9	-10	-9	-17
Hopland - Cloverdale	+2	-1	-3	-7	-7	-6	-7
Cloverdale - Jimtown	+5	-1	-0	+0	-1	+0	-2
Jimtown - Digger Bend	-2	-3	-3	-3	-3	-3	-2
Digger Bend - Healdsburg	-4	-2	-2	-1	-1	-1	-0
Upper Russian Net Reach Loss/Gain	-19	-27	-26	-31	-32	-30	-41

### CVD Project Water Release to Meet Min Flow Requirement

Net Reach Loss(-)/Gain(+) to Controlling Gage	-12	-22	-21	-27	-28	-26	-39
Storage (Project Water)	-0	-0	-0	-0	-0	-0	-0
Pass-through Water (Nat. + Imp.) + Natural	-12	-22	-21	-27	-28	-26	-39
Total Pass-through Water	49	39	40	34	33	45	31
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).

	6/24/2022	6/25/2022	6/26/2022	6/27/2022	6/28/2022	6/29/2022	6/30/2022
<b>IV. Lake Sonoma</b>							
<b>Lake Sonoma</b>							
Storage Change (ac-ft)	-193.0	-209.0	-210.0	-209.0	-226.0	-227.0	-208.0
(cfs)	-97	-105	-106	-105	-114	-114	-105
Evaporation (ac-ft)	29.4	28.3	27.2	28.2	32.4	28.2	26.1
Inflow (Natural Flow)	3	0	0	0	0	0	1
WSD Release Gage	86	86	86	89	90	90	93
Storage (Project Water)	82	86	86	89	90	90	92
Natural Flow	3	0	0	0	0	0	1
<b>V. Lower Dry Creek Reach</b>							
<b>Minimum Instream Flow Requirement</b>	80	80	80	80	80	80	80
<b>Controlling Compliance Gage</b>							
Min Gage Flow	77	77	77	76	77	76	77
Controlling Gage	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth
<b>All Compliance Gages</b>							
	<i>Crk mi.</i>						
WSD Release	14.3	86	86	86	89	90	93
Yoakim (USGS 11465200)	11.1	87	87	88	88	90	93
Lambert (USGS 11465240)	6.8	98	98	99	99	100	103
Dry Crk Mouth (USGS 11465350)	0.1	77	77	77	76	77	77
<b>WSD to Russian River Confluence Reach Analysis</b>							
Total Pass-through Water	3	0	0	0	0	0	1
<b>Net Reach Loss(-)/Gain(+)</b>							
WSD - Yoakim	+2	+1	+2	+0	+0	+1	+1
Yoakim - Lambert	+11	+11	+11	+11	+10	+9	+10
Lambert - Dry Crk Mouth	-22	-22	-22	-22	-23	-23	-25
WSD - Dry Crk Mouth	-9	-9	-9	-11	-13	-13	-13
<b>WSD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss/Gain to Controlling Gage	-9	-9	-9	-11	-13	-13	-13
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>VI. Russian River - Dry Creek Confluence</b>							
<b>Upper Russian River Flow (Healdsburg Gage)</b>							
L. Mendocino Project Water + Import Water	43	40	38	38	36	34	32
Natural Flow	0	0	0	0	0	0	0
<b>Dry Creek Flow (Mouth Gage)</b>							
L. Sonoma Project Water	82	86	86	89	90	90	92
Natural Flow	0	0	0	0	0	0	0
<b>Russian River d/s of Confluence Flow</b>							
L. Mendocino Project Water + Import Water	43	40	38	38	36	34	32
L. Sonoma Project Water	82	86	86	89	90	90	92
Natural Flow	0	0	0	0	0	0	0
<b>VII. Lower Russian River Reach</b>							
<b>Minimum Instream Flow Requirement</b>	35	35	35	35	35	35	35
<b>Controlling Compliance Gage</b>							
Min Gage Flow	60	57	54	52	48	46	43
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
<b>All Compliance Gages</b>							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	131.0	106.6	95.9	90.0	86.8	82.5
Hacienda (USGS 11467000)	21.8	60	57	54	52	48	46
<b>Confluence to Windsor Reach Analysis</b>							
Net Reach Loss/Gain to Windsor Gage	+11	-10	-20	-25	-27	-29	-30
L. Mendocino Project Water + Import Water	43	40	38	38	36	34	32
L. Sonoma Project Water	78	81	82	84	86	85	86
Natural Flow	11	0	0	0	0	0	0
<b>Confluence to SCWA Wohler Production Facility Reach Analysis</b>							
Approx. Flow u/s of Wohler	149	133	138	128	138	127	133
Net Reach Loss(-)/Gain(+)	+29	+16	+23	+14	+25	+17	+24
L. Mendocino Project Water + Import Water	43	40	38	38	36	34	32
L. Sonoma Project Water	78	81	82	84	86	85	86
Natural Flow	29	16	23	14	25	17	24
<b>Confluence to Hacienda (Guerneville) Reach Analysis</b>							
Net Reach Loss(-)/Gain(+)	-60	-59	-62	-62	-65	-65	-65
L. Mendocino Project Water + Import Water	43	40	38	38	36	34	32
L. Sonoma Project Water	0	6	0	8	0	4	0
Natural Flow	18	16	20	14	21	17	21
<b>VIII. Water Production under Sonoma Water Water Rights (ac-ft)</b>							
<b>Lower Russian River</b>							
Sonoma Water Total	176.8	150.1	167.1	150.4	179.3	161.3	177.0
Wohler	93.3	54.0	80.7	60.0	56.3	69.8	82.4
Mirabel	83.5	96.1	86.4	90.4	122.9	91.5	94.6
Town of Windsor River Wellfield	9.7	9.1	8.9	8.7	9.4	9.9	10.6
Camp Meeker & Occidental	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Upper Russian River</b>							
City of Healdsburg							
Gauntlett & Fitch Mtn	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Dry Creek</b>							
City of Healdsburg							
Dry Creek Wellfield	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes:

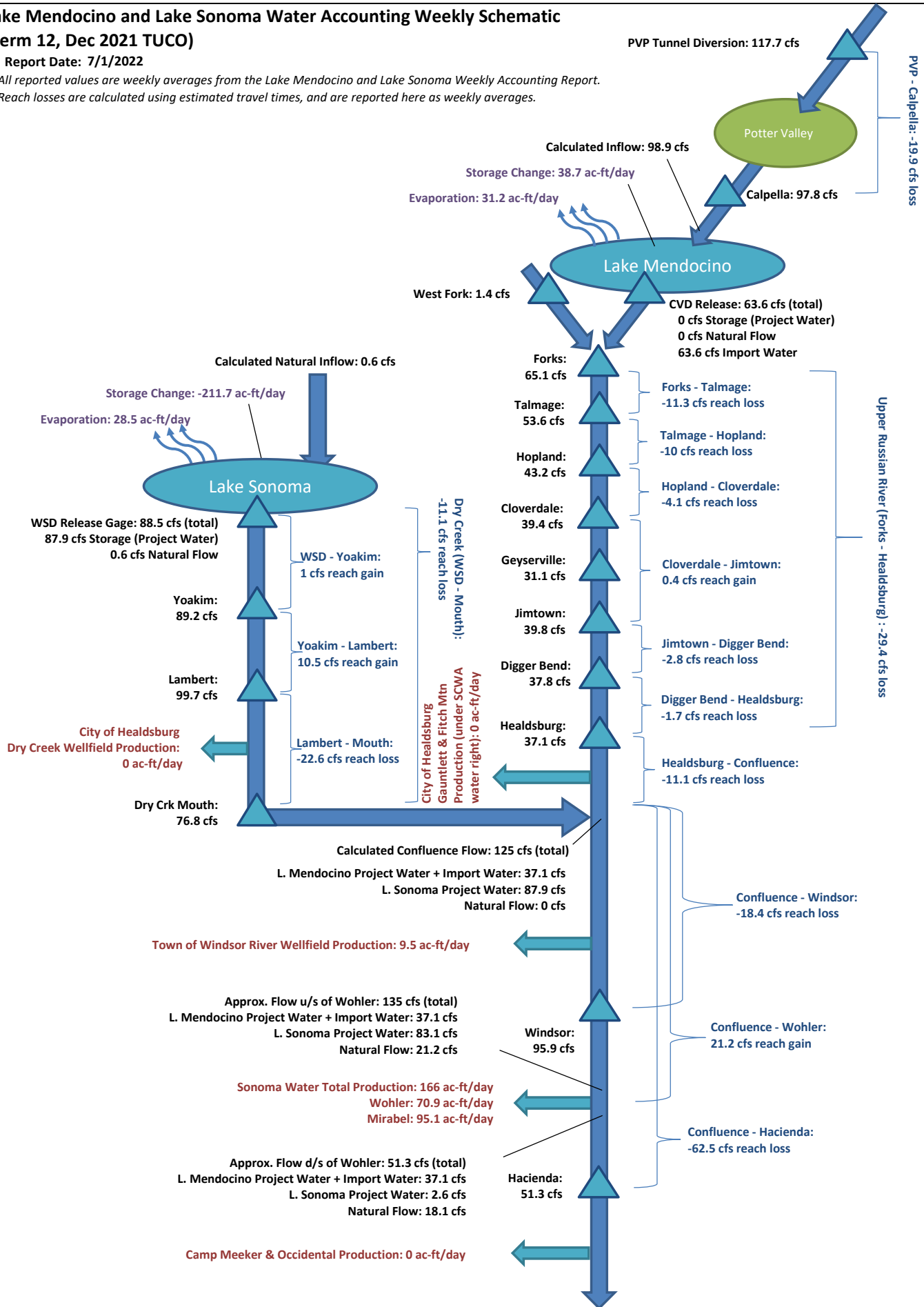
- Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

# Lake Mendocino and Lake Sonoma Water Accounting Weekly Schematic

(Term 12, Dec 2021 TUCO)

Report Date: 7/1/2022

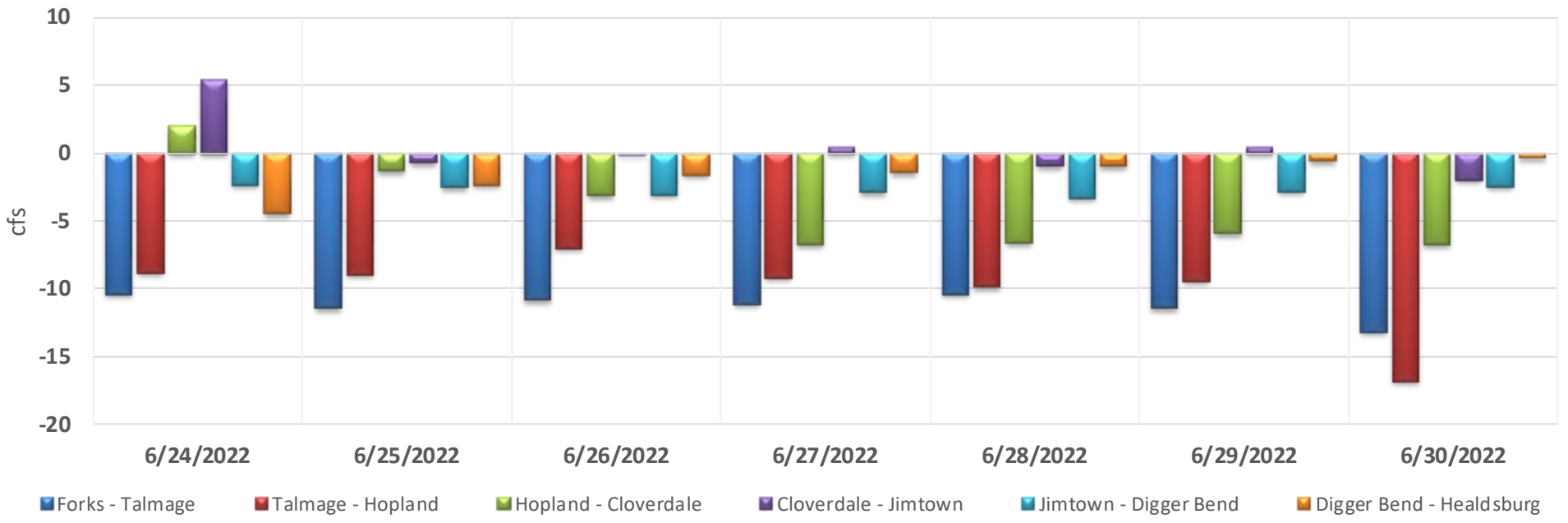
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.  
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



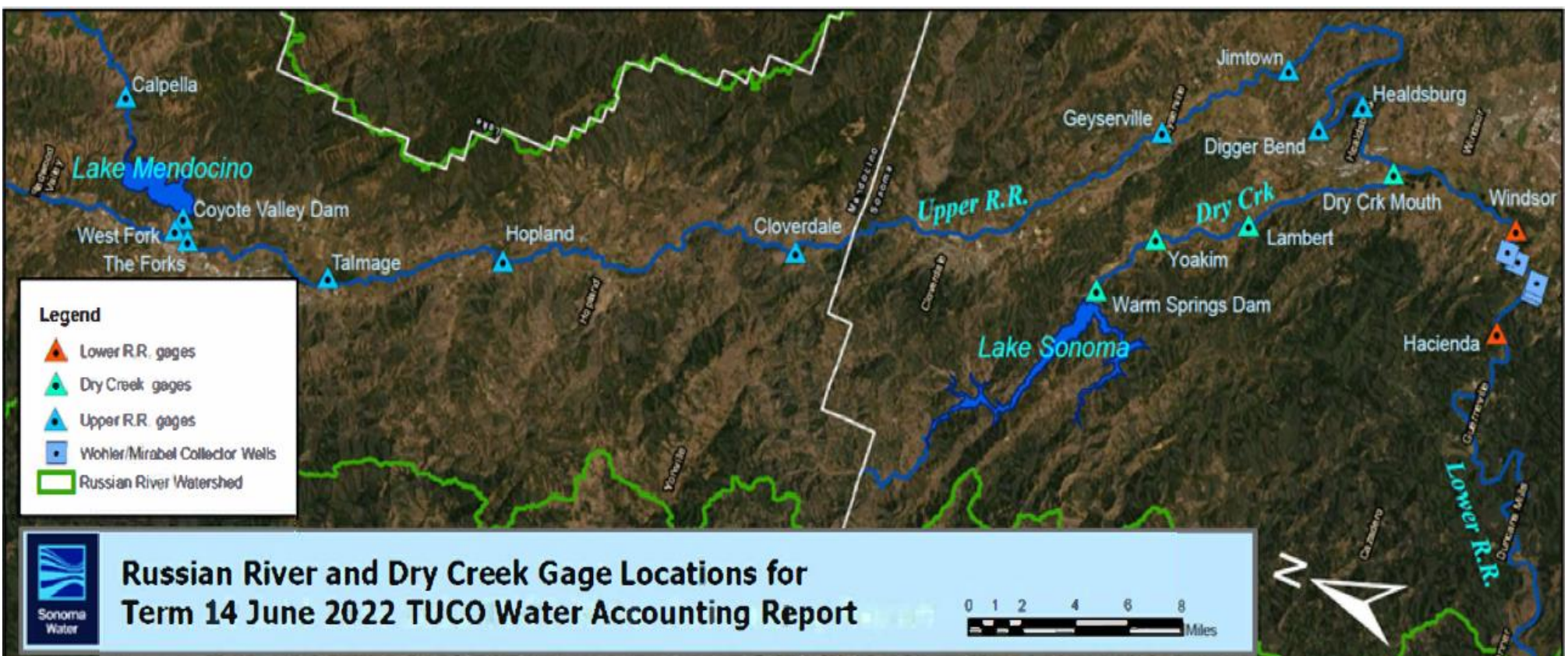
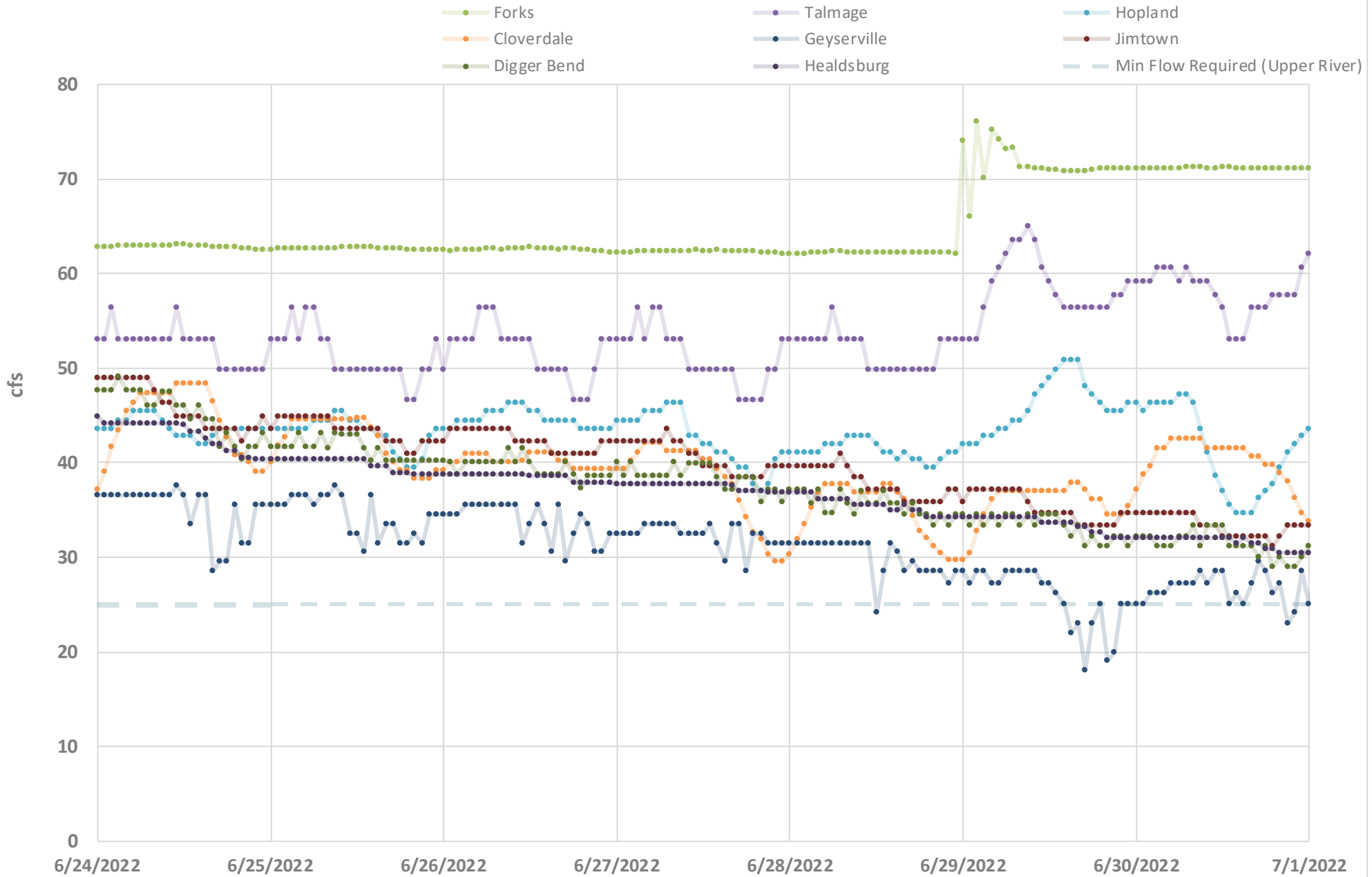
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## UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



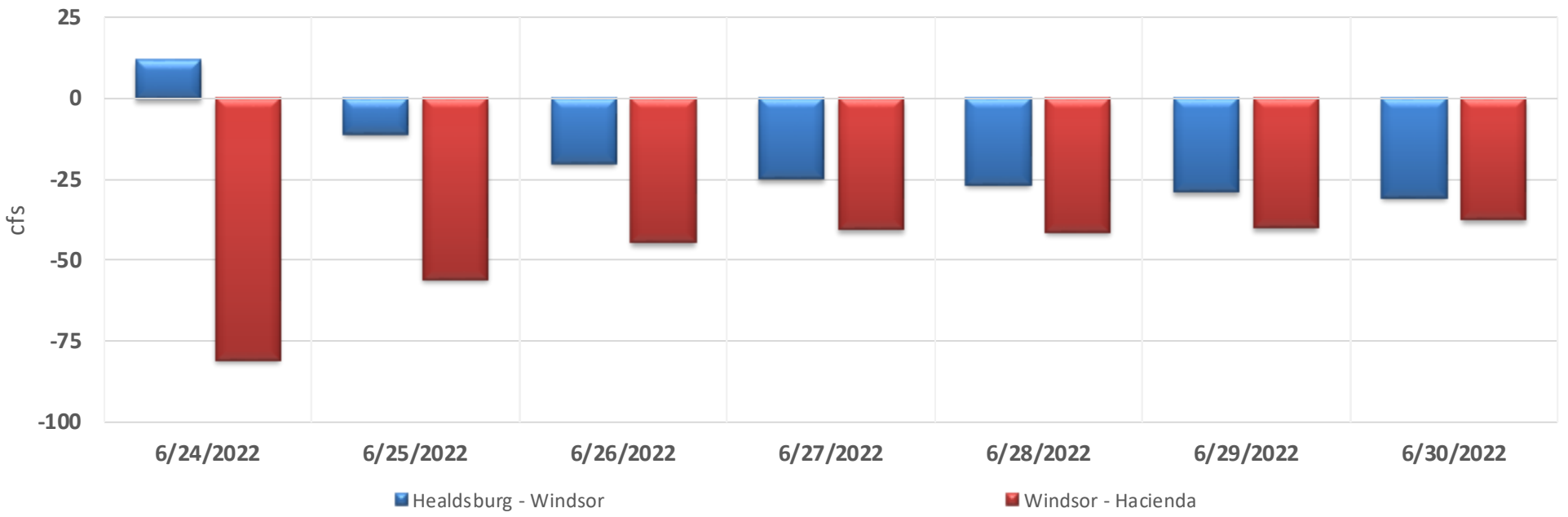
## UPPER RUSSIAN RIVER STREAM FLOWS



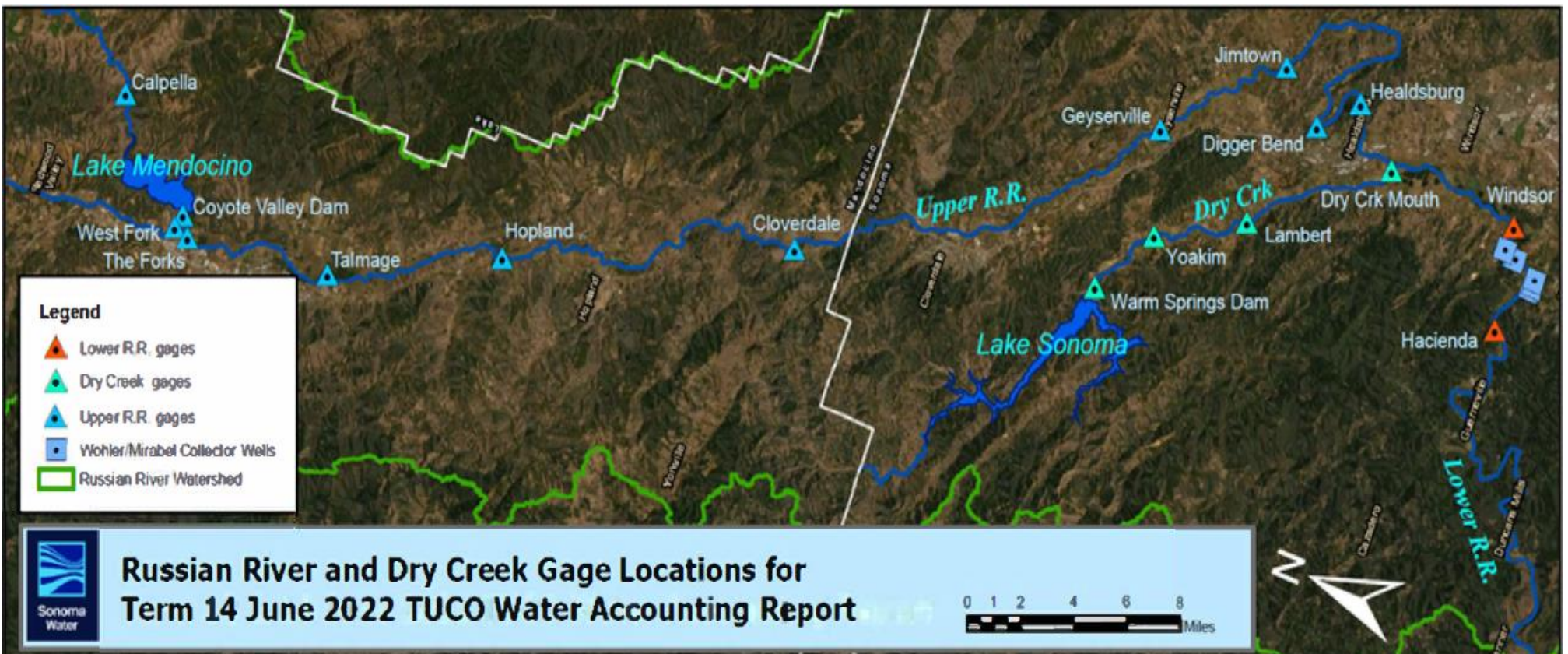
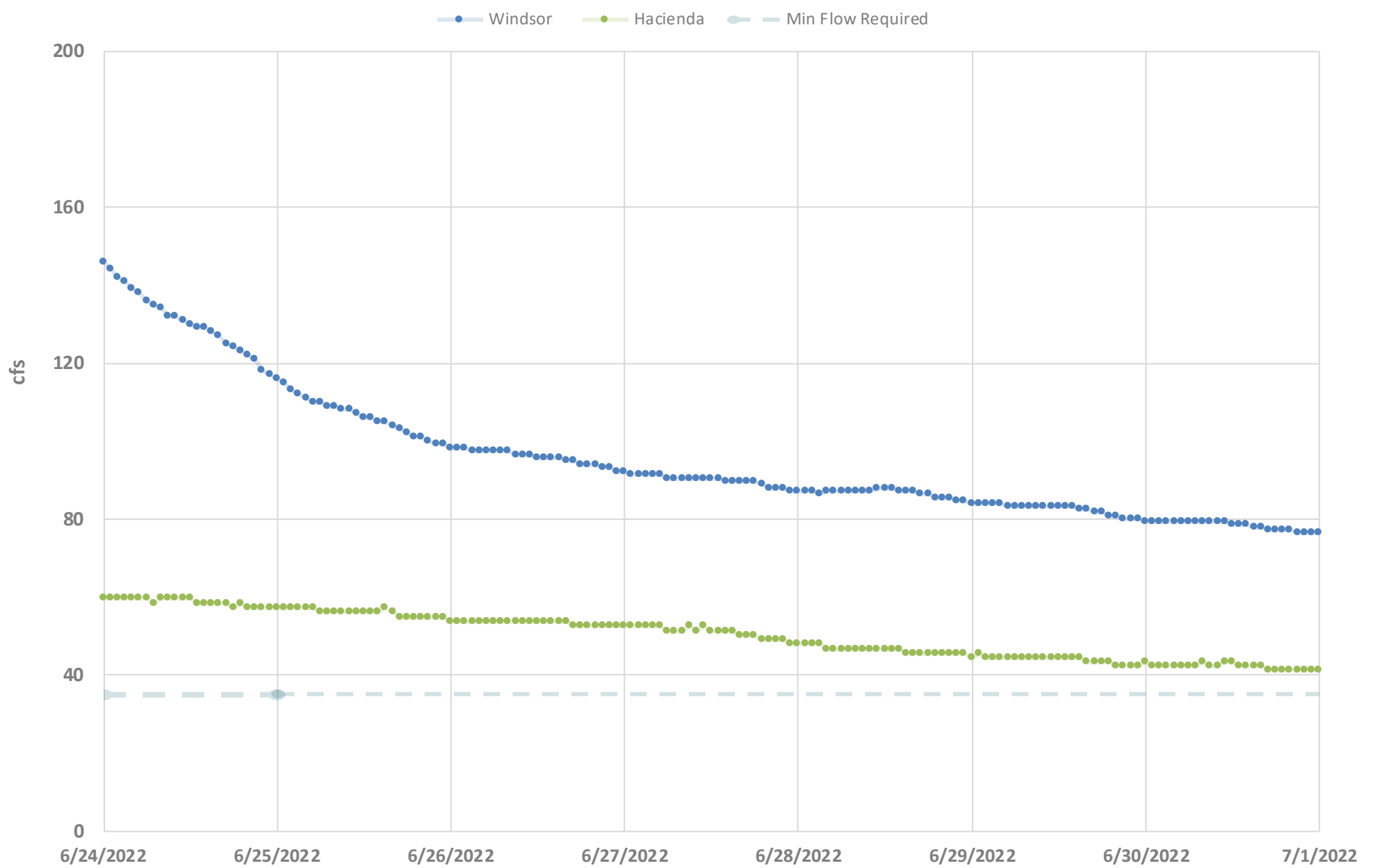
# Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 14, June 2022 TUCO)

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



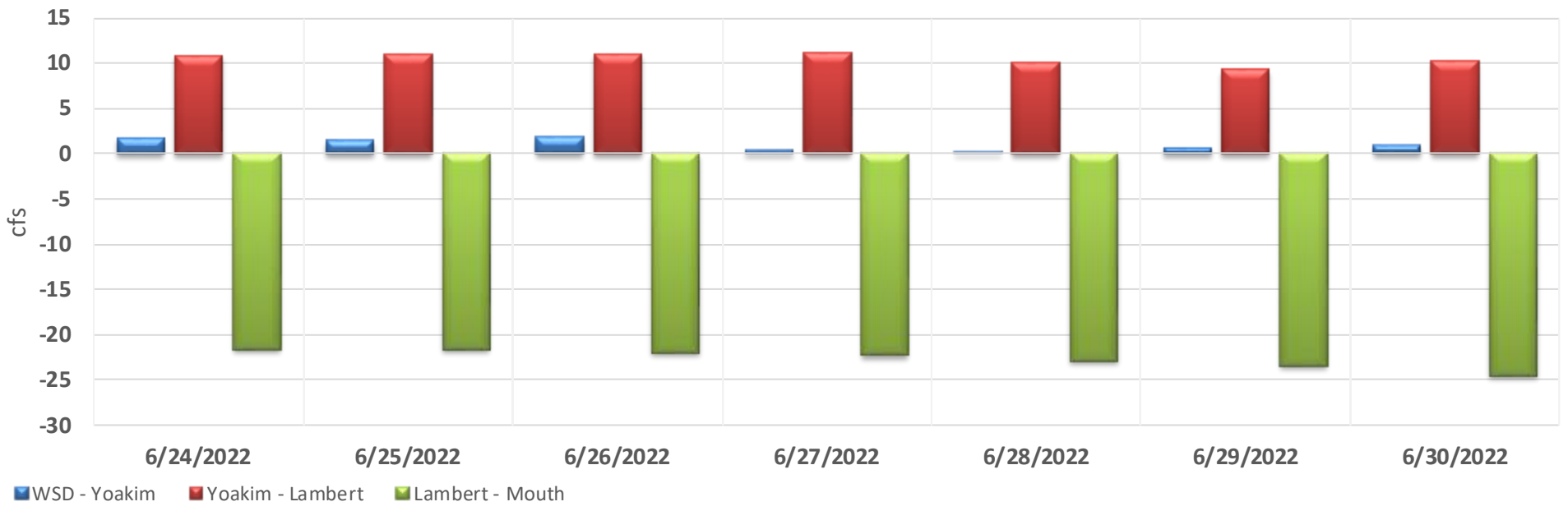
## LOWER RUSSIAN RIVER STREAM FLOWS



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



## DRY CREEK STREAM FLOWS

