

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

Report Date: 9/16/2022

Units are cfs unless noted otherwise

	9/9/2022	9/10/2022	9/11/2022	9/12/2022	9/13/2022	9/14/2022	9/15/2022
<b>I. Upper East Fork Reach</b>							
<b>Potter Valley Project</b>							
Tunnel Diversion	56.0	56.0	56.0	50.0	47.0	44.0	42.0
PVID Requested Delivery	50.0	50.0	50.0	45.1	42.0	38.8	37.0
PVID Canals Actual Delivery	23.4	23.4	23.3	18.5	16.3	16.9	17.3
East Fork Release	33.0	33.0	33.0	31.0	31.0	27.0	25.0
PVID E Fork Diversions	26.6	26.6	26.7	26.5	25.8	21.9	19.7
PVID Water Use - PG&E Contract	50.0	50.0	50.0	45.1	42.0	38.8	37.0
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)	6.4	6.4	6.3	4.5	5.3	5.1	5.3
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	18.3	24.6	17.2	29.9	19.0	21.7	20.0
Net Reach Loss(-)/Gain(+)	-37.7	-31.4	-38.8	-20.1	-28.0	-22.3	-22.0
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.)	-12.3	-18.6	-11.2	-24.9	-14.0	-16.4	-15.0
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-12.3	-18.6	-11.2	-24.9	-14.0	-16.4	-15.0
<b>II. Lake Mendocino</b>							
<b>Reservoir Operations</b>							
Calculated Inflow (ac-ft)	32	34	37	62	18	31	44
(cfs)	16	17	19	31	9	16	22
Natural Flow	0	0	1	1	0	0	2
Import	16	17	17	30	9	16	20
Storage Change (ac-ft)	-171.0	-172.0	-156.0	-143.0	-184.0	-170.0	-156.0
(cfs)	-86	-87	-79	-72	-93	-86	-79
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)	26.9	26.9	10.3	22.7	19.5	18.5	17.4
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	89	90	92	92	92	92	92
Storage (Project Water)	73	73	73	61	83	76	70
Natural Flow	0	0	1	1	0	0	2
Import Water	16	17	17	30	9	16	20
<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	89	90	92	92	92	92	92
		<i>99.9</i>					
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Total Pass-through Water	16	17	19	31	9	16	22
Project Water Release Required	Yes	Yes	Yes	No	Yes	Yes	Yes
<b>III. Upper Russian River Reach</b>							
<b>Minimum Instream Flow Requirement</b>	25	25	25	25	25	25	25
<b>Controlling Compliance Gage</b>							
Min Gage Flow	26	27	28	29	30	30	31
Controlling Gage	Digger Bend	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
<b>All Compliance Gages</b>							
		<i>Rvr mi.</i>					
Forks (CVD + USGS 11461000)	89	90	92	92	92	92	92
		<i>99.0</i>					
Talmage (USGS 11462080)	84	86	86	86	84	84	83
		<i>96.1</i>					
Hopland (USGS 11462500)	64	65	65	69	70	67	67
		<i>84.8</i>					
Cloverdale (USGS 11463000)	62	58	58	59	63	64	63
		<i>70.9</i>					
Geyserville (USGS 11463500)	40	41	43	43	43	45	46
		<i>54.4</i>					
Jimtown (USGS 11463682)	35	37	39	40	40	42	44
		<i>48.5</i>					
Digger Bend (USGS 11463980)	26	27	29	30	31	31	32
		<i>38.2</i>					
Healdsburg (USGS 11464000)	26	27	28	29	30	30	31
		<i>35.6</i>					
<b>Net Reach Loss(-)/Gain(+)</b>							
Forks - Talmage	-5	-4	-6	-6	-8	-8	-9
Talmage - Hopland	-20	-21	-20	-18	-15	-17	-17
Hopland - Cloverdale	-6	-4	-7	-7	-6	-6	-3
Cloverdale - Jimtown	-26	-25	-20	-17	-18	-21	-19
Jimtown - Digger Bend	-9	-10	-10	-10	-9	-10	-11
Digger Bend - Healdsburg	+0	+1	+0	-1	-1	-1	-1
Upper Russian Net Reach Loss/Gain	-66	-63	-63	-59	-57	-63	-59
<b>CVD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss(-)/Gain(+) to Controlling Gage	-66	-63	-63	-59	-57	-63	-59
Storage (Project Water)	-66	-63	-63	-59	-57	-63	-59
Pass-through Water (Nat. + Imp.) + Natural	0	0	0	0	0	0	0
Total Pass-through Water	16	17	19	31	9	16	22
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).

	9/9/2022	9/10/2022	9/11/2022	9/12/2022	9/13/2022	9/14/2022	9/15/2022
<b>IV. Lake Sonoma</b>							
<b>Lake Sonoma</b>							
Storage Change (ac-ft)	-253.0	-238.0	-253.0	-253.0	-236.0	-252.0	-252.0
(cfs)	-128	-120	-128	-128	-119	-127	-127
Evaporation (ac-ft)	18.3	20.5	10.2	17.0	15.9	14.7	14.7
Inflow (Natural Flow)	0	0	0	0	0	0	0
WSD Release Gage	107	107	107	107	104	101	101
Storage (Project Water)	107	107	107	107	104	101	101
Natural Flow	0	0	0	0	0	0	0

<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	91	94	96	93	94	91	92
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	107	107	107	107	104	101
Yoakim (USGS 11465200)	11.1	109	111	112	112	110	107
Lambert (USGS 11465240)	6.8	103	104	105	105	103	100
Dry Crk Mouth (USGS 11465350)	0.1	91	94	96	93	94	91
<b>WSD to Russian River Confluence Reach Analysis</b>							
Total Pass-through Water	0	0	0	0	0	0	0
<b>Net Reach Loss(-)/Gain(+)</b>							
WSD - Yoakim	+3	+3	+5	+5	+5	+6	+6
Yoakim - Lambert	-6	-6	-7	-7	-7	-6	-7
Lambert - Dry Crk Mouth	-12	-10	-9	-12	-10	-9	-8
WSD - Dry Crk Mouth	-15	-13	-11	-14	-13	-10	-9
<b>WSD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss/Gain to Controlling Gage	-15	-13	-11	-14	-13	-10	-9
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	26	27	28	29	30	30	31
Natural Flow	0	0	0	0	0	0	0
<b>Dry Creek Flow (Mouth Gage)</b>							
L. Sonoma Project Water	107	107	107	107	104	101	101
Natural Flow	0	0	0	0	0	0	0
<b>Russian River d/s of Confluence Flow</b>							
L. Mendocino Project Water + Import Water	26	27	28	29	30	30	31
L. Sonoma Project Water	107	107	107	107	104	101	101
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	51	54	60	63	72	72	66
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
<b>All Compliance Gages</b>							
	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	124.0	126.8	129.7	130.7	133.0	130.5
Hacienda (USGS 11467000)	21.8	51	54	60	63	72	66
<b>Confluence to Windsor Reach Analysis</b>							
Net Reach Loss/Gain to Windsor Gage	+7	+6	+7	+8	+10	+8	+9
L. Mendocino Project Water + Import Water	26	27	28	29	30	30	31
L. Sonoma Project Water	102	103	102	103	100	96	96
Natural Flow	7	6	7	8	10	8	9
<b>Confluence to SCWA Wohler Production Facility Reach Analysis</b>							
Approx. Flow u/s of Wohler	109	126	110	132	121	147	111
Net Reach Loss(-)/Gain(+)	-8	+6	-14	+9	-3	+25	-12
L. Mendocino Project Water + Import Water	26	27	28	29	30	30	31
L. Sonoma Project Water	102	103	102	103	100	96	96
Natural Flow	0	6	0	9	0	25	0
<b>Confluence to Hacienda (Guerneville) Reach Analysis</b>							
Net Reach Loss(-)/Gain(+)	-66	-67	-63	-59	-51	-49	-57
L. Mendocino Project Water + Import Water	26	27	28	29	30	30	31
L. Sonoma Project Water	44	30	53	35	51	21	51
Natural Flow	0	6	0	9	0	25	0

<b>VIII. Water Production under Sonoma Water Water Rights (ac-ft)</b>							
<b>Lower Russian River</b>							
Sonoma Water Total	114.2	143.7	98.3	135.1	96.6	147.7	89.3
Wohler	46.5	45.8	47.7	60.4	40.4	66.1	46.3
Mirabel	61.2	91.7	46.4	71.9	51.3	77.6	38.4
Town of Windsor River Wellfield	10.0	8.9	9.3	7.7	8.7	9.5	9.4
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

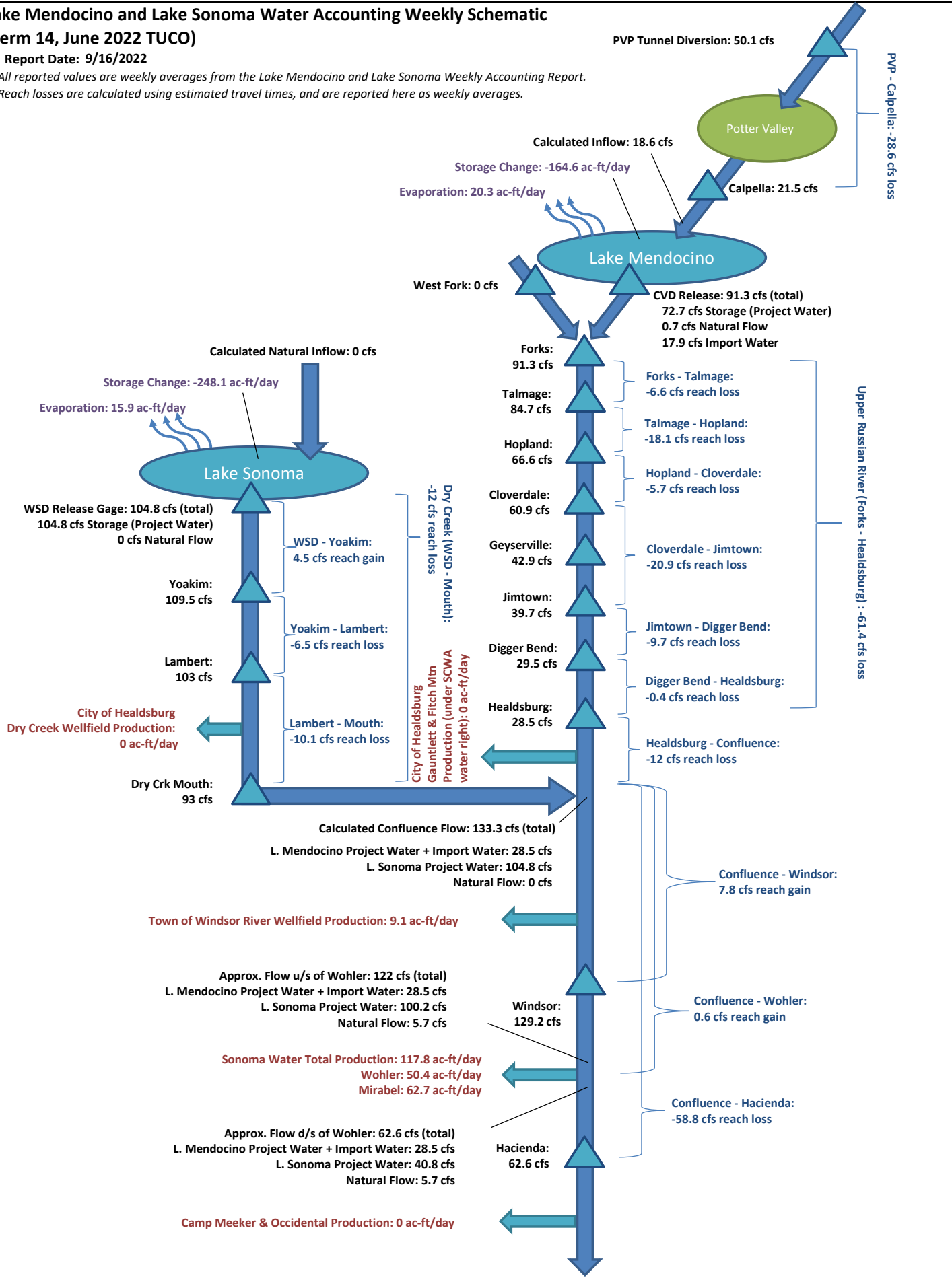
Notes:

- 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 14, June 2022 TUCO)

Report Date: 9/16/2022

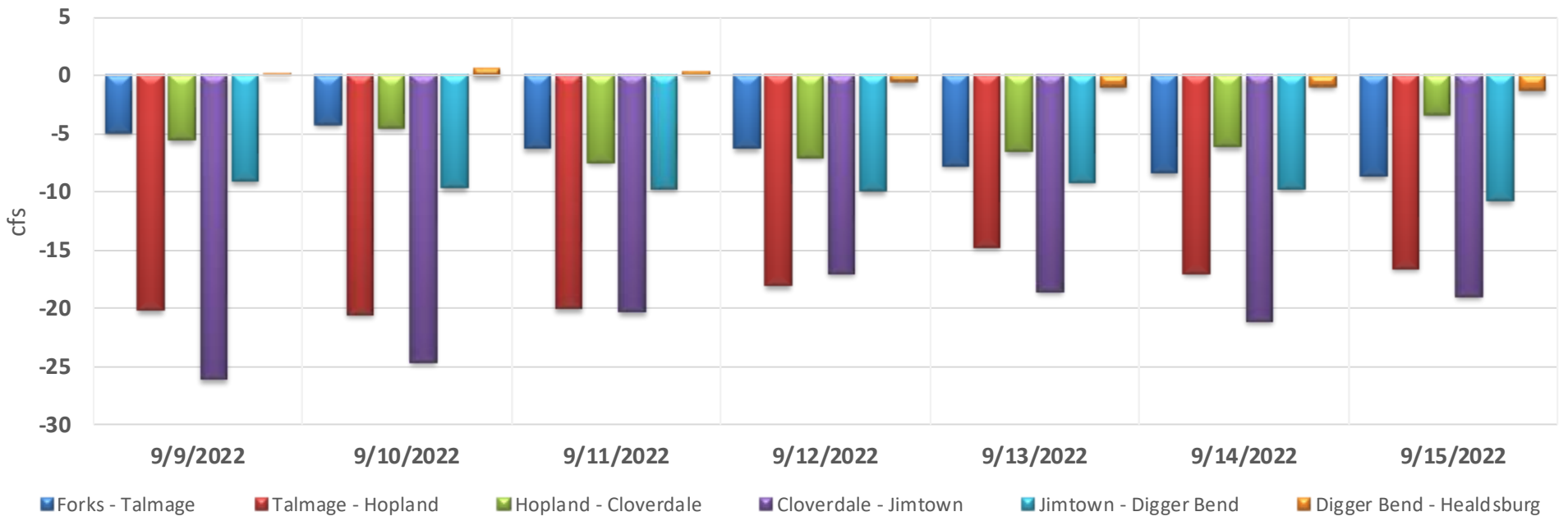
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.  
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



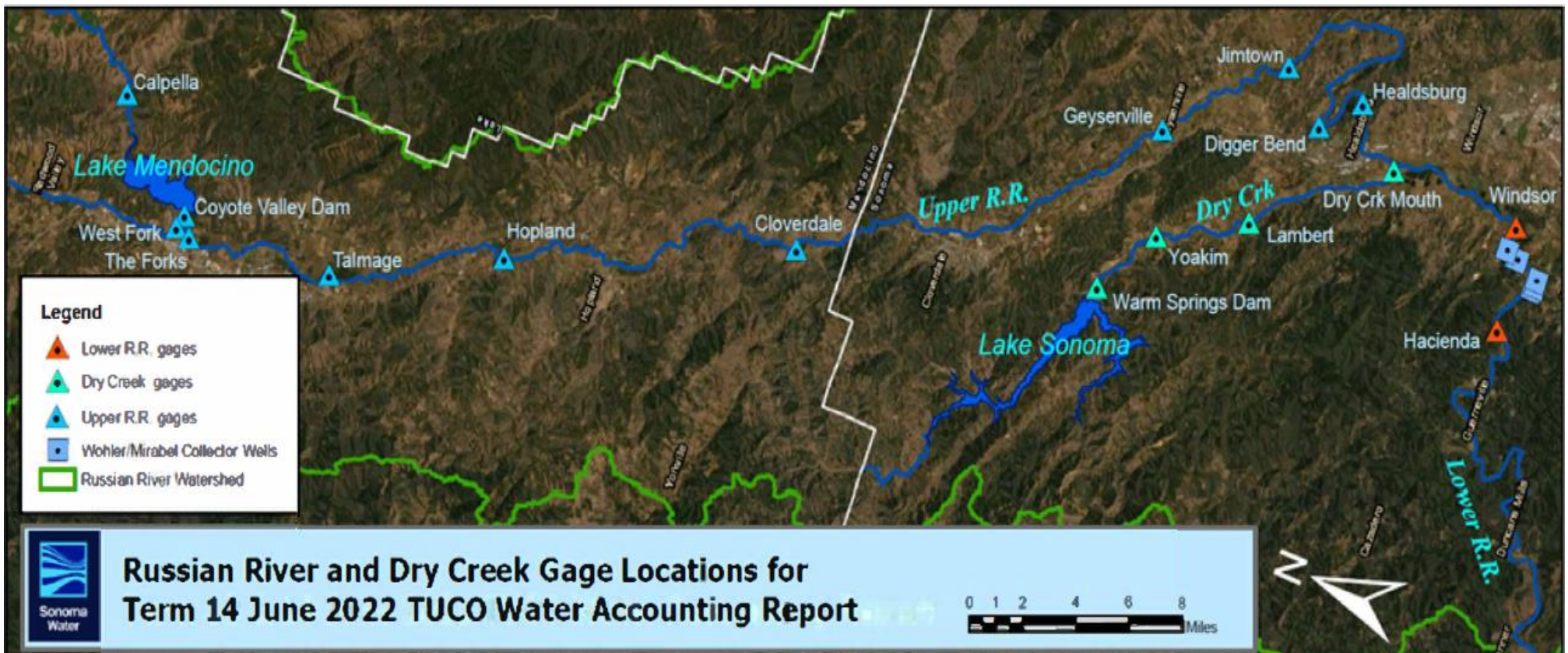
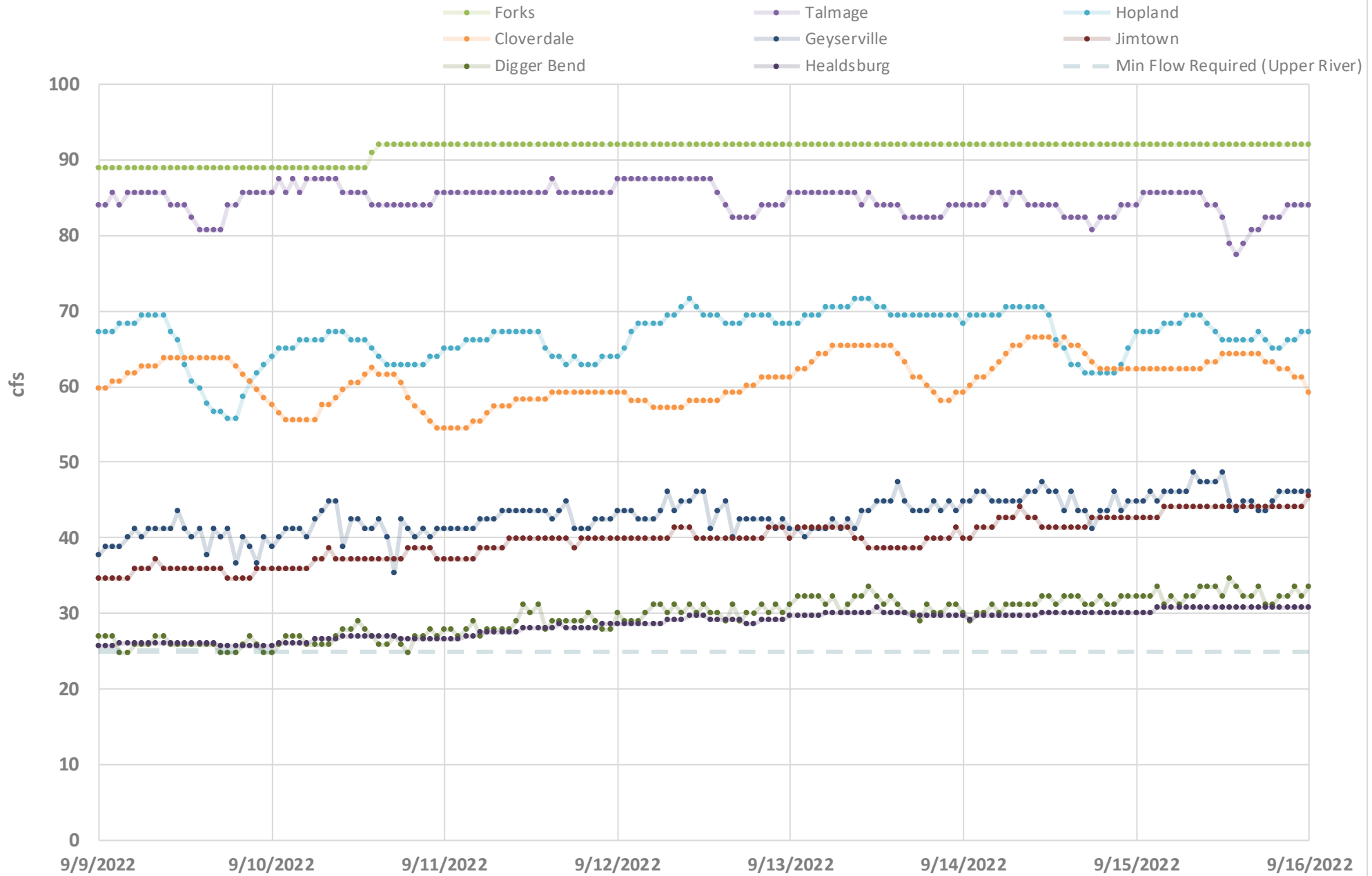
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## UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



## UPPER RUSSIAN RIVER STREAM FLOWS



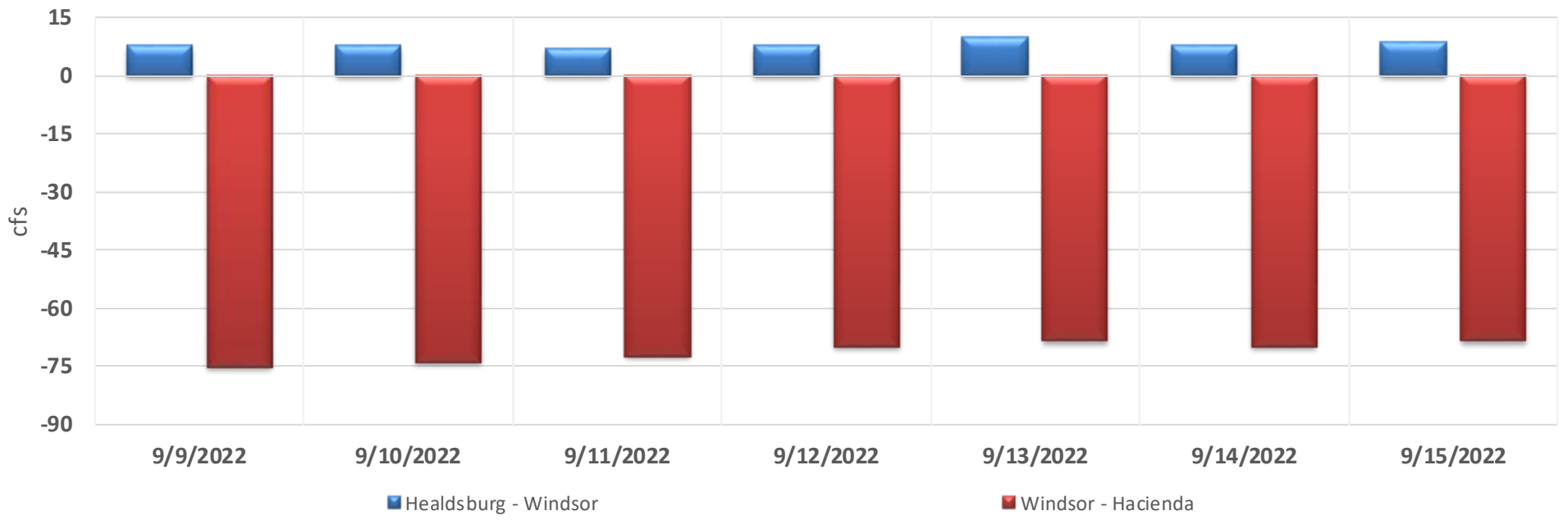
Russian River and Dry Creek Gage Locations for Term 14 June 2022 TUCO Water Accounting Report



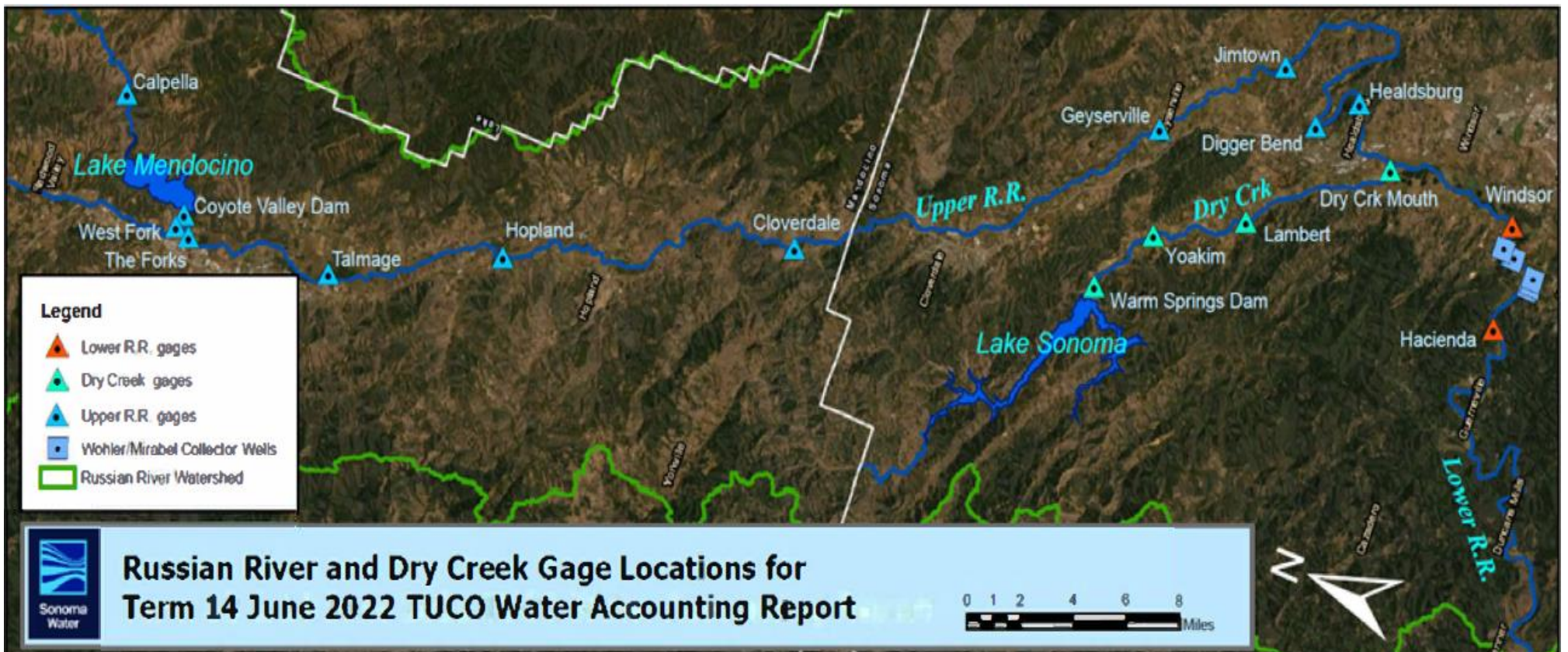
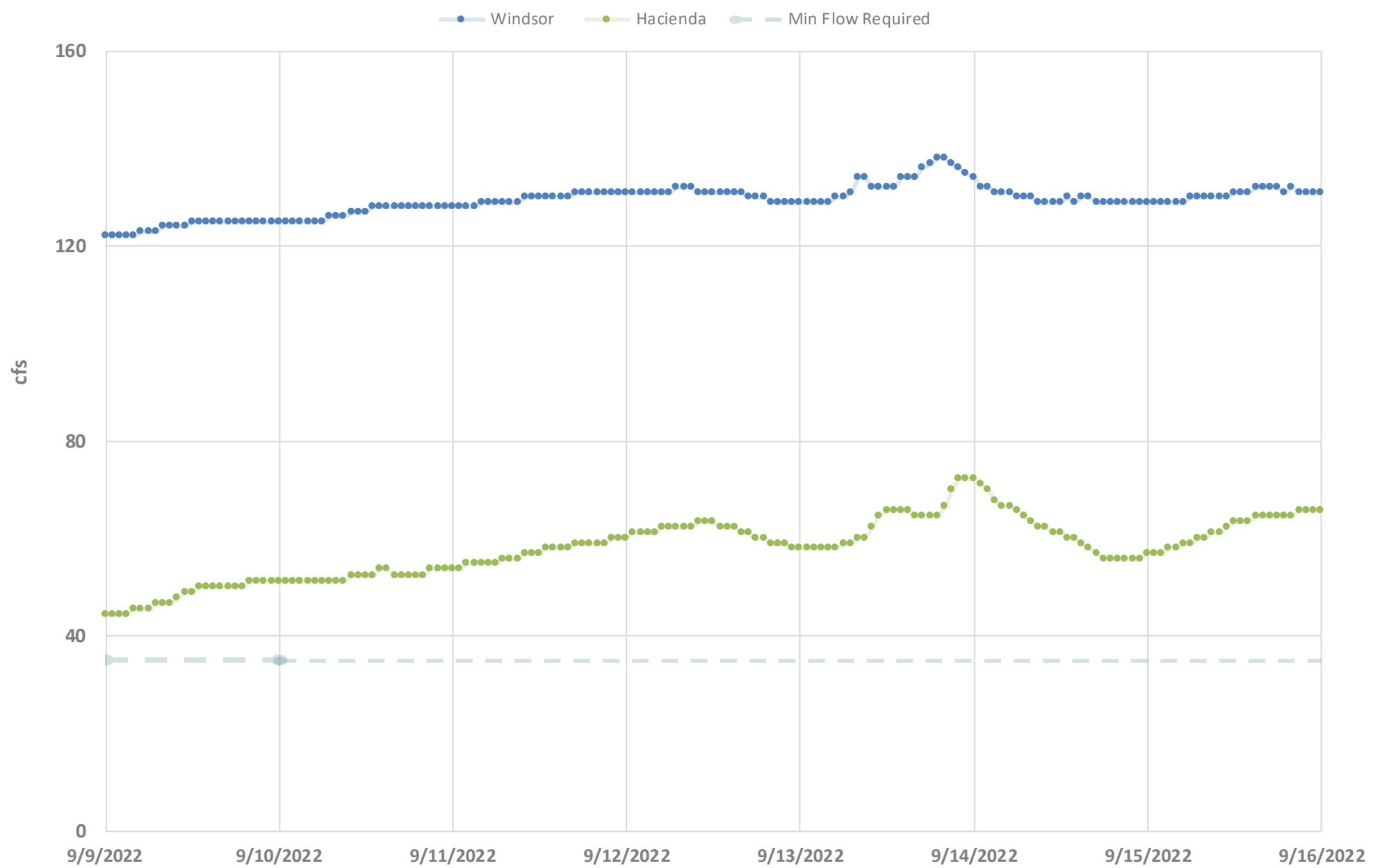
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## LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



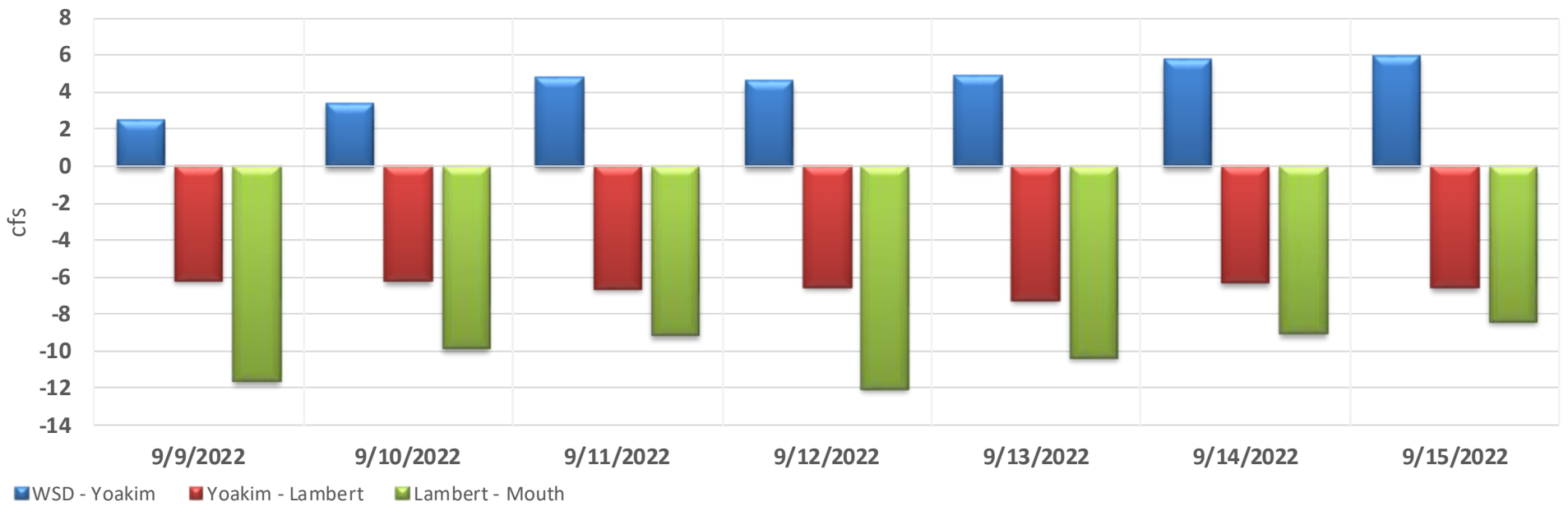
## LOWER RUSSIAN RIVER STREAM FLOWS



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

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



## DRY CREEK STREAM FLOWS

