

Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 14, June 2022 TUCO) Report Date: 9/9/2022
--

9/8/2022

Tunnel Diversion	52.0	50.0	50.0	54.0	57.0	56.0	55.0
PVID Requested Delivery	46.9	45.0	45.0	48.4	50.0	50.0	50.0
PVID Canals Actual Delivery	19.9	19.7	19.8	20.4	21.7	22.5	22.9
East Fork Release	32.0	30.0	30.0	34.0	35.0	34.0	32.0
PVID E Fork Diversions	27.0	25.3	25.2	28.0	28.3	27.6	27.1
PVID Water Use - PG&E Contract	46.9	45.0	45.0	48.4	50.0	50.0	50.0
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)	5.0	4.7	4.8	6.0	6.7	6.5	4.9
PVID Canal Net Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

USGS E Fork @ Calpella	21.0	19.2	23.5	17.5	16.7	16.3	25.0
Net Reach Loss(-)/Gain(+)	-31.0	-30.8	-26.5	-36.5	-40.3	-39.7	-30.0
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.)	-15.9	-14.2	-18.5	-11.8	-9.7	-10.3	-20.0
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-15.9	-14.2	-18.5	-11.8	-9.7	-10.3	-20.0

Calculated Inflow (ac-ft)	19	44	61	33	64	32	62
(cfs)	9	22	31	16	32	16	31
Natural Flow	0	3	7	0	15	0	6
Import	9	19	24	16	17	16	25
Storage Change (ac-ft)	-187.0	-159.0	-144.0	-172.0	-144.0	-172.0	-143.0
(cfs)	-94	-80	-73	-87	-73	-87	-72
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)	29.3	26.1	28.1	28.1	31.2	27.0	28.0
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	89	89	89	89	89	89	89
Storage (Project Water)	80	67	58	73	57	73	58
Natural Flow	0	3	7	0	15	0	6
Import Water	9	19	24	16	17	16	25

<u>Compliance Gage</u>	<u>Rvr mi.</u>							
CVD Release	99.9	89	89	89	89	89	89	89

Total Pass-through Water	9	22	31	16	32	16	31
Project Water Release Required	Yes	Yes	No	Yes	No	Yes	No

[illegible]

Forks	(CVD + USGS 11461000)	99.0	89	89	89	89	89	89	89
Talmage	(USGS 11462080)	96.1	83	85	87	85	85	85	86
Hopland	(USGS 11462500)	84.8	67	67	68	66	66	66	67
Cloverdale	(USGS 11463000)	70.9	66	66	68	66	62	66	67
Geyserville	(USGS 11463500)	54.4	41	42	42	43	39	38	40
Jimtown	(USGS 11463682)	48.5	38	39	39	39	36	35	34
Digger Bend	(USGS 11463980)	38.2	28	29	28	28	27	27	25
Healdsburg	(USGS 11464000)	35.6	28	28	27	27	27	26	26

Forks - Talmage	-6	-4	-2	-4	-4	-4	-3
Talmage - Hopland	-18	-17	-20	-20	-19	-18	-19
Hopland - Cloverdale	-2	-2	+1	-1	-5	-1	+1
Cloverdale - Jimtown	-23	-27	-26	-27	-33	-27	-30
Jimtown - Digger Bend	-10	-10	-11	-11	-11	-8	-9
Digger Bend - Healdsburg	-2	-0	-1	-1	-1	-1	-0
Upper Russian Net Reach Loss/Gain	-61	-60	-59	-63	-73	-59	-60

Net Reach Loss(-)/Gain(+) to Controlling Gage	-61	-60	-59	-63	-73	-59	-60
Storage (Project Water)	-61	-60	-58	-63	-57	-59	-58
Pass-through Water (Nat. + Imp.) + Natural	0	0	-1	0	-16	0	-2
Total Pass-through Water	9	22	30	16	16	16	29
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

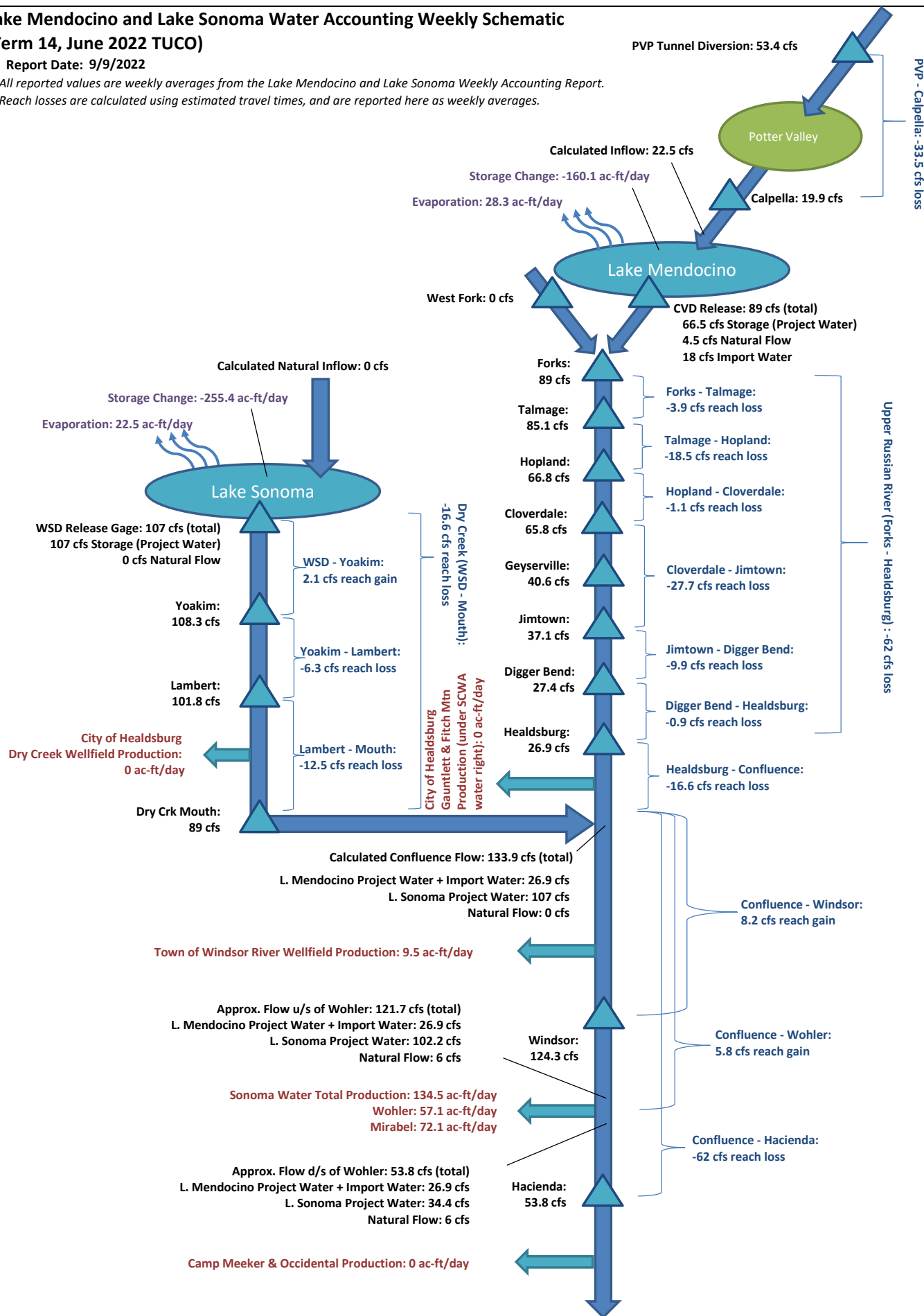
- *Water Accounting for the Upper Russian River is an analysis that approximates the current conditions based on methodology in Term 11 (2/11/21 Order) report and modified by Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).*

	9/2/2022	9/3/2022	9/4/2022	9/5/2022	9/6/2022	9/7/2022	9/8/2022
IV. Lake Sonoma							
Lake Sonoma							
Storage Change (ac-ft)	-241.0	-272.0	-256.0	-255.0	-255.0	-255.0	-254.0
(cfs)	-122	-137	-129	-129	-129	-129	-128
Evaporation (ac-ft)	20.8	23.0	21.8	24.1	25.2	19.5	22.9
Inflow (Natural Flow)	0	0	0	0	0	0	0
WSD Release Gage	106	107	107	107	107	107	107
Storage (Project Water)	106	107	107	107	107	107	107
Natural Flow	0	0	0	0	0	0	0
V. Lower Dry Creek Reach							
Minimum Instream Flow Requirement	80	80	80	80	80	80	80
Controlling Compliance Gage							
Min Gage Flow	81	89	93	90	90	90	90
Controlling Gage	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth	Dry Crk Mouth
All Compliance Gages	Crk mi.						
WSD Release	14.3	106	107	107	107	107	107
Yoakim (USGS 11465200)	11.1	101	110	111	110	109	109
Lambert (USGS 11465240)	6.8	94	103	104	104	103	102
Dry Crk Mouth (USGS 11465350)	0.1	81	89	93	90	90	90
WSD to Russian River Confluence Reach Analysis							
Total Pass-through Water	0	0	0	0	0	0	0
Net Reach Loss(-)/Gain(+)							
WSD - Yoakim	+1	+3	+3	+3	+2	+2	+2
Yoakim - Lambert	-5	-7	-7	-7	-6	-6	-6
Lambert - Dry Crk Mouth	-11	-13	-11	-13	-14	-13	-13
WSD - Dry Crk Mouth	-16	-17	-15	-17	-18	-17	-17
WSD Project Water Release to Meet Min Flow Requirement							
Net Reach Loss/Gain to Controlling Gage	-16	-17	-15	-17	-18	-17	-17
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	28	28	27	27	27	26	26
Natural Flow	0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)							
L. Sonoma Project Water	106	107	107	107	107	107	107
Natural Flow	0	0	0	0	0	0	0
Russian River d/s of Confluence Flow	109	117	120	118	117	116	115
L. Mendocino Project Water + Import Water	28	28	27	27	27	26	26
L. Sonoma Project Water	106	107	107	107	107	107	107
Natural Flow	0	0	0	0	0	0	0
VII. Lower Russian River Reach							
Minimum Instream Flow Requirement	35	35	35	35	35	35	35
Controlling Compliance Gage							
Min Gage Flow	54	55	58	60	55	48	48
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages	Rvr mi.						
Windsor (USGS 11465390)	26.6	122.2	123.7	126.6	127.4	124.2	123.1
Hacienda (USGS 11467000)	21.8	54	55	58	60	55	48
Confluence to Windsor Reach Analysis							
Net Reach Loss/Gain to Windsor Gage	+13	+7	+7	+8	+8	+6	+7
L. Mendocino Project Water + Import Water	28	28	27	27	27	26	26
L. Sonoma Project Water	101	102	103	103	102	102	102
Natural Flow	13	7	7	8	8	6	7
Confluence to SCWA Wohler Production Facility Reach Analysis							
Approx. Flow u/s of Wohler	116	124	118	120	131	123	120
Net Reach Loss(-)/Gain(+)	+7	+7	-2	+2	+14	+7	+4
L. Mendocino Project Water + Import Water	28	28	27	27	27	26	26
L. Sonoma Project Water	101	102	103	103	102	102	102
Natural Flow	7	7	0	2	14	7	4
Confluence to Hacienda (Guerneville) Reach Analysis							
Net Reach Loss(-)/Gain(+)	-55	-62	-62	-58	-62	-68	-68
L. Mendocino Project Water + Import Water	28	28	27	27	27	26	26
L. Sonoma Project Water	39	33	42	43	26	27	30
Natural Flow	7	7	0	2	14	7	4
VIII. Water Production under Sonoma Water Water Rights (ac-ft)							
Lower Russian River							
Sonoma Water Total	123.9	136.6	119.9	118.8	150.9	149.0	142.5
Wohler	45.3	54.6	46.8	56.2	69.4	67.4	60.4
Mirabel	71.9	75.1	66.1	57.5	79.9	78.0	76.1
Town of Windsor River Wellfield	9.4	9.2	8.9	8.9	9.9	10.0	9.9
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).							

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

Report Date: 9/9/2022

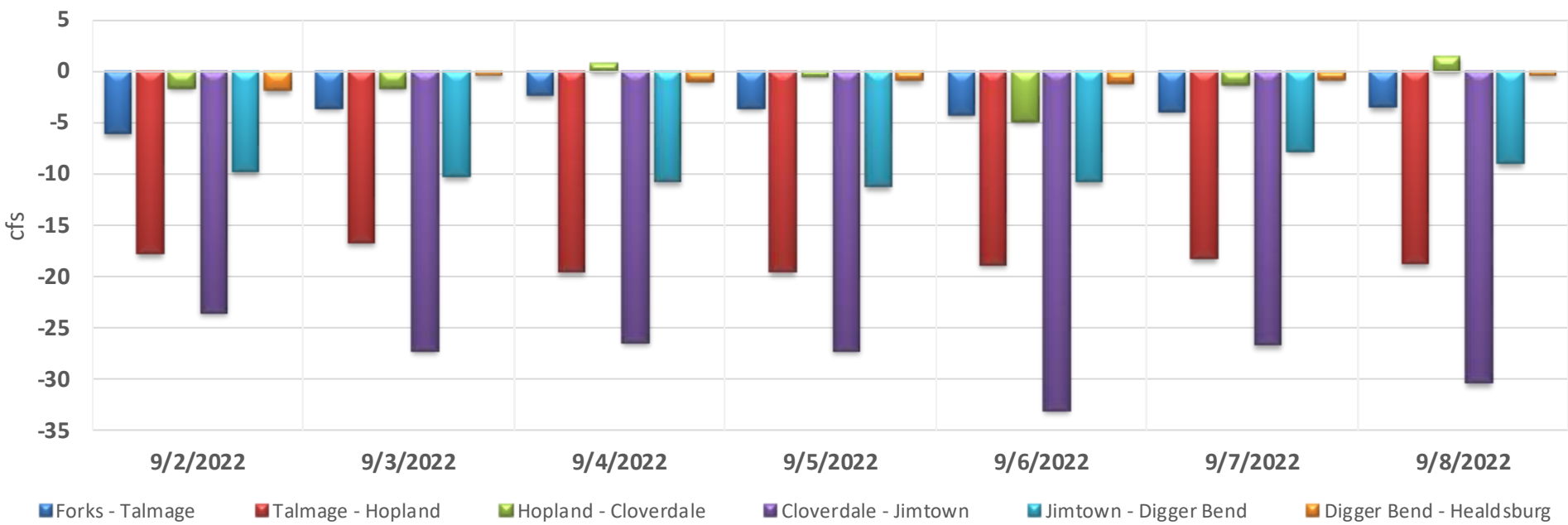
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



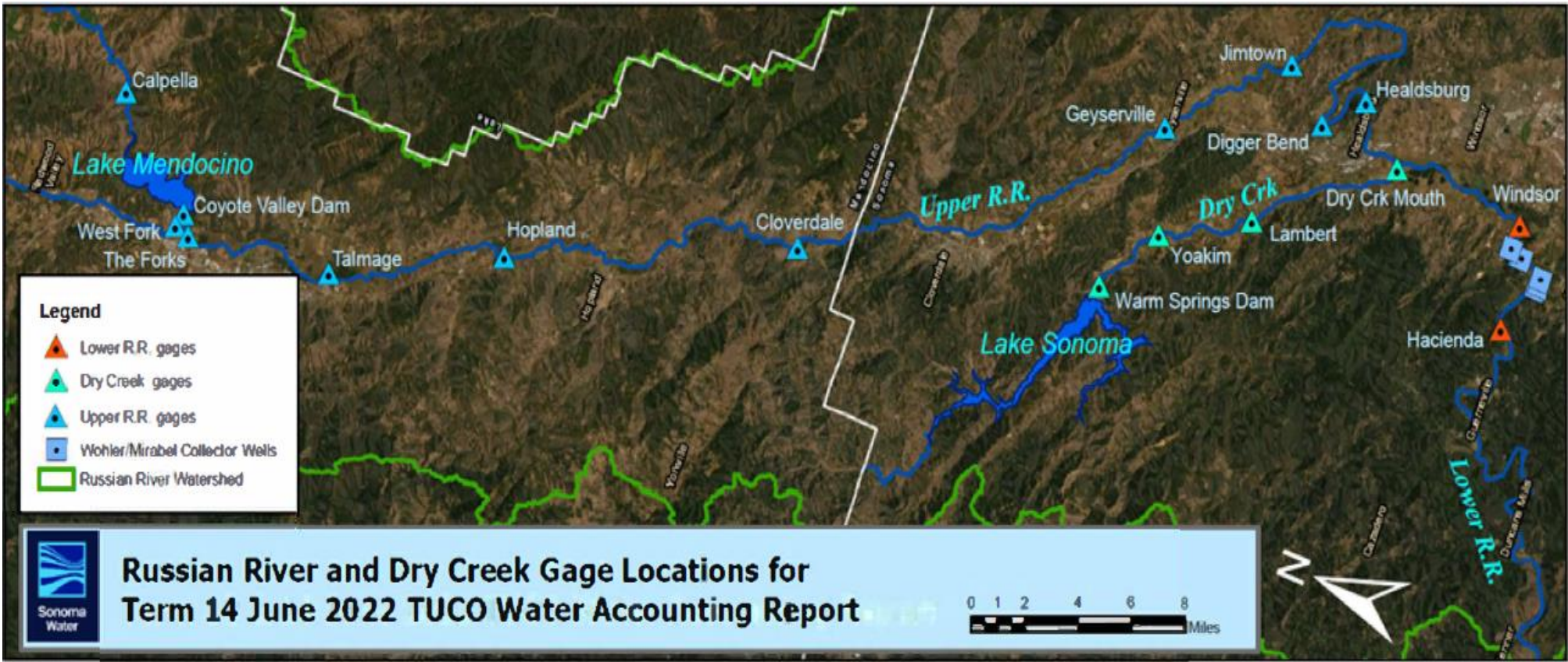
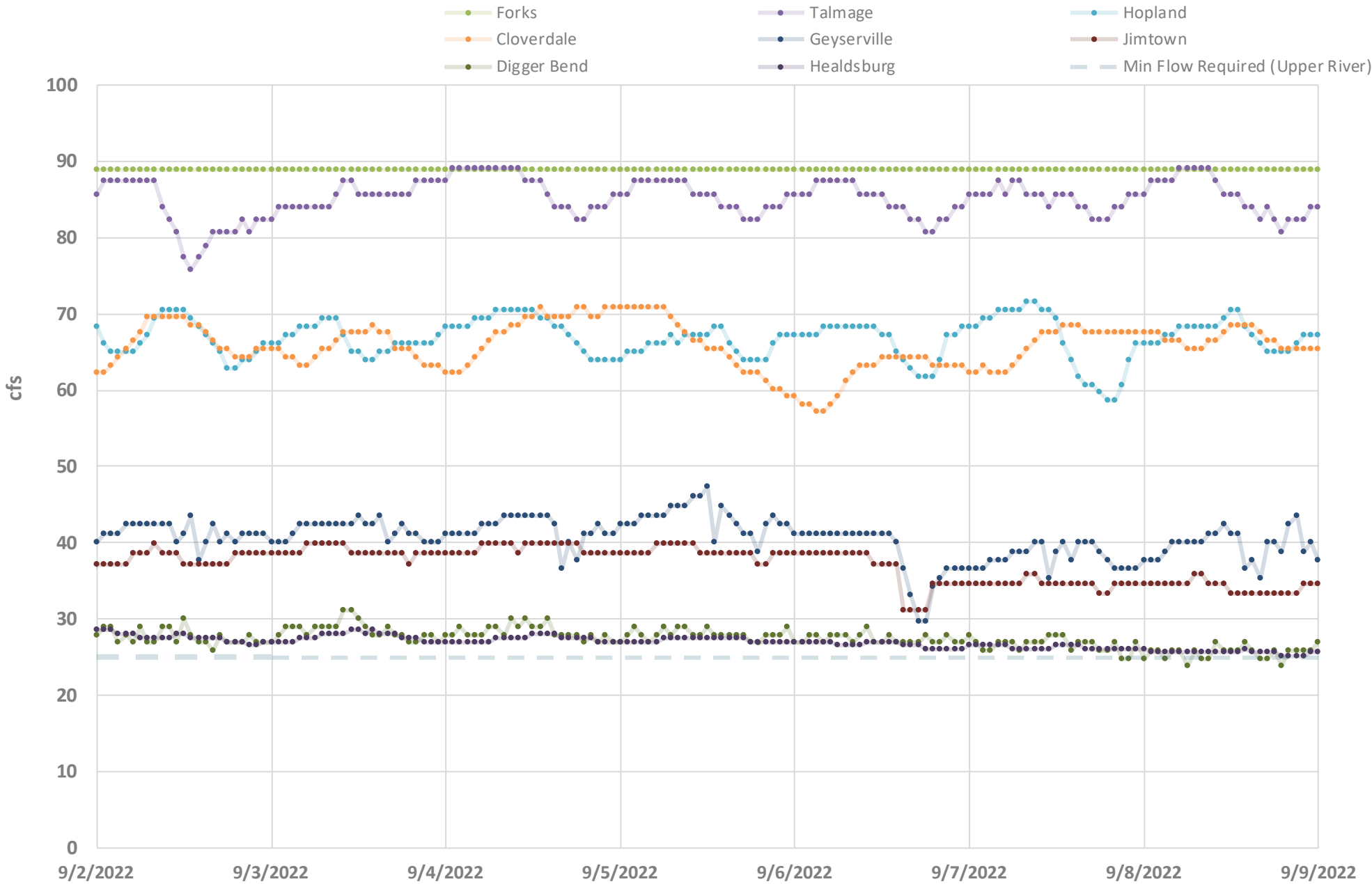
Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Term 14, June 2022 TUCO)

Report Date: 9/9/2022

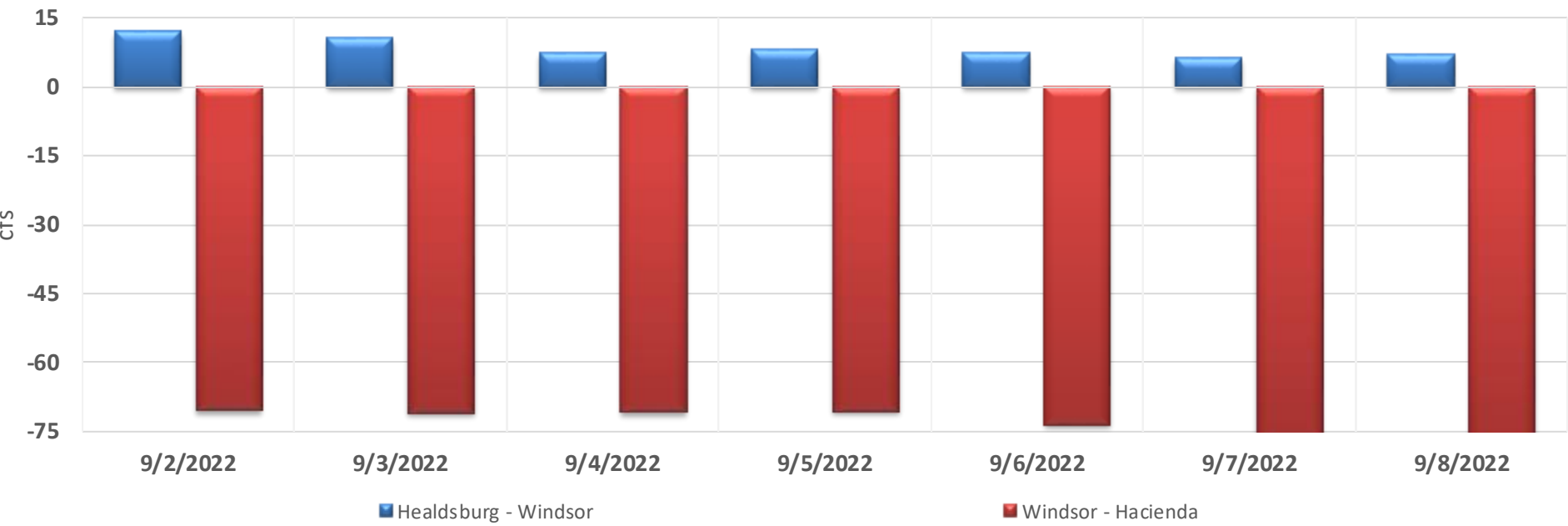
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



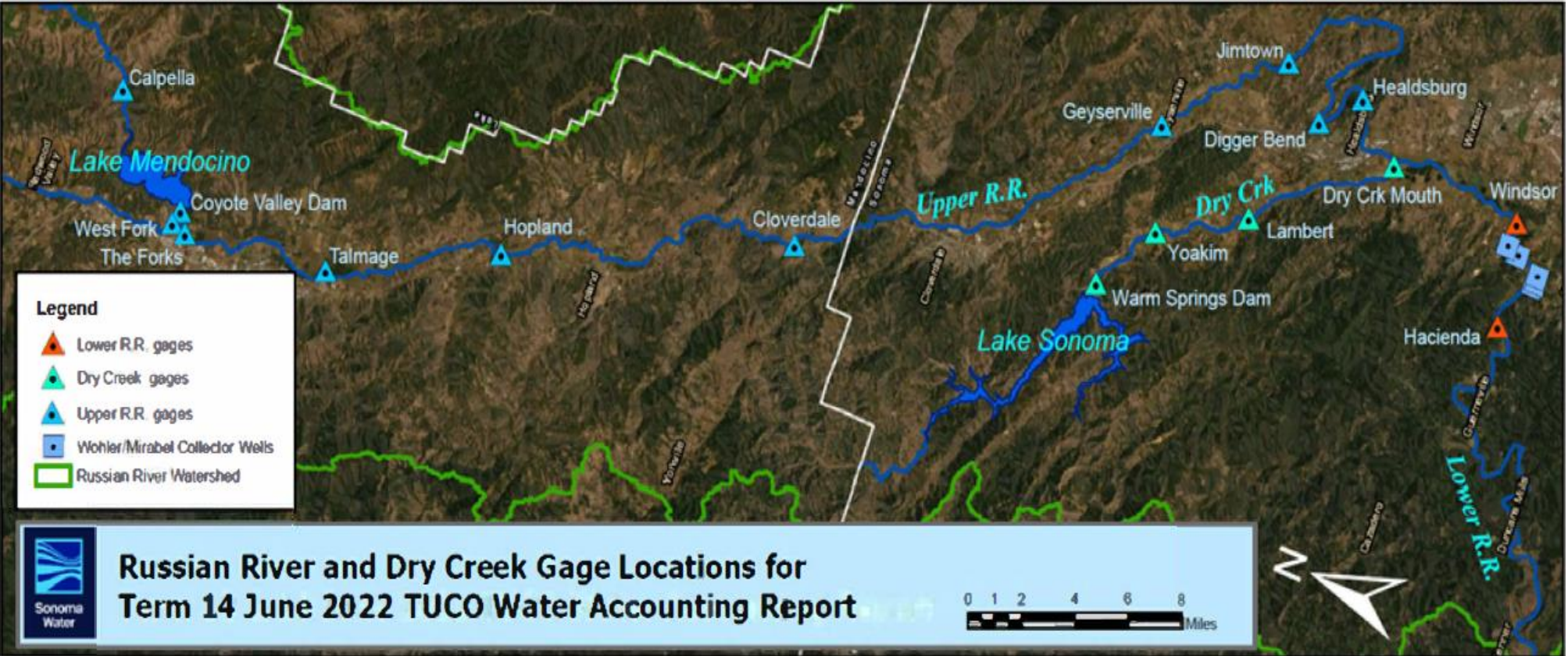
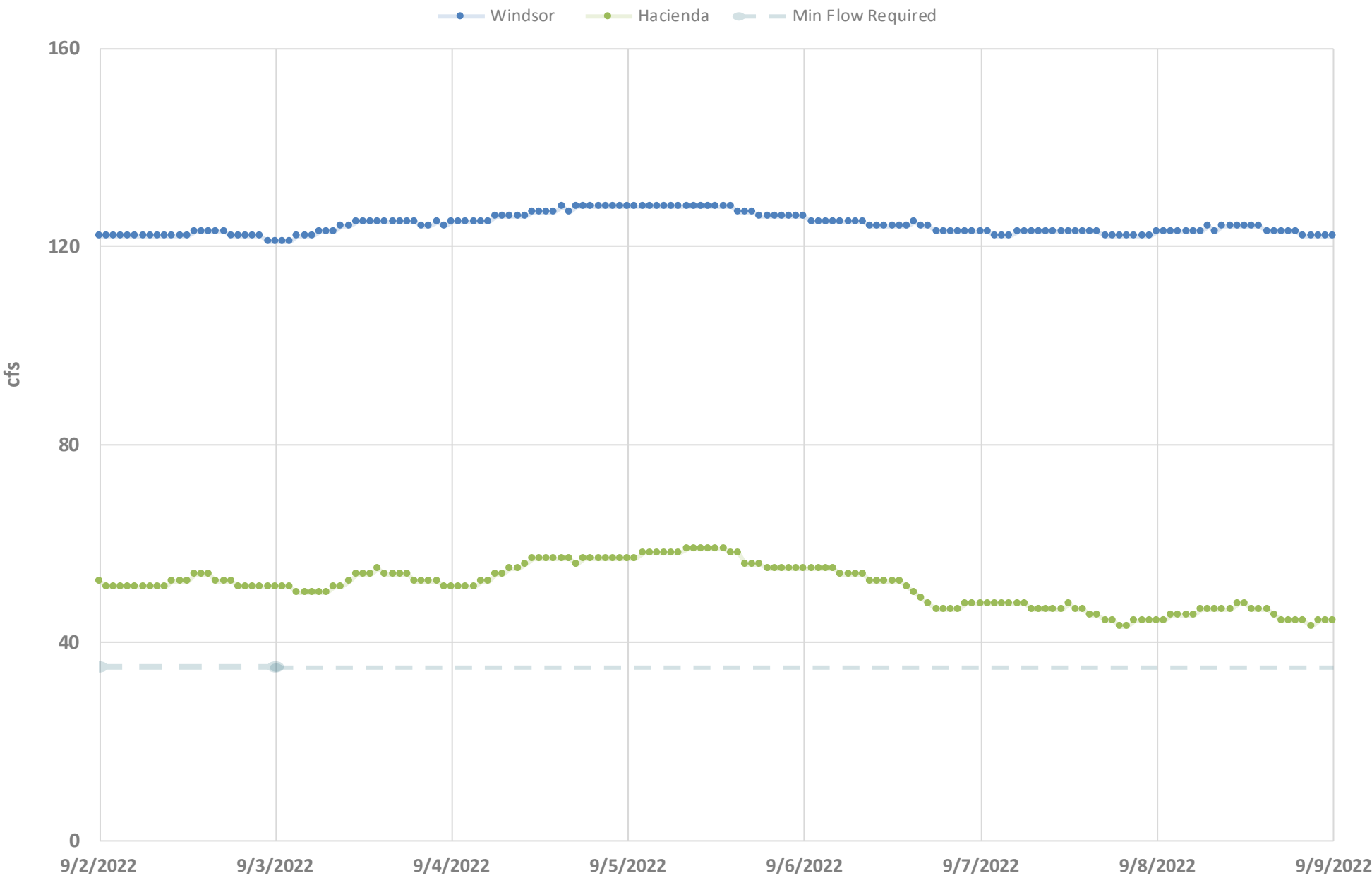
UPPER RUSSIAN RIVER STREAM FLOWS



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



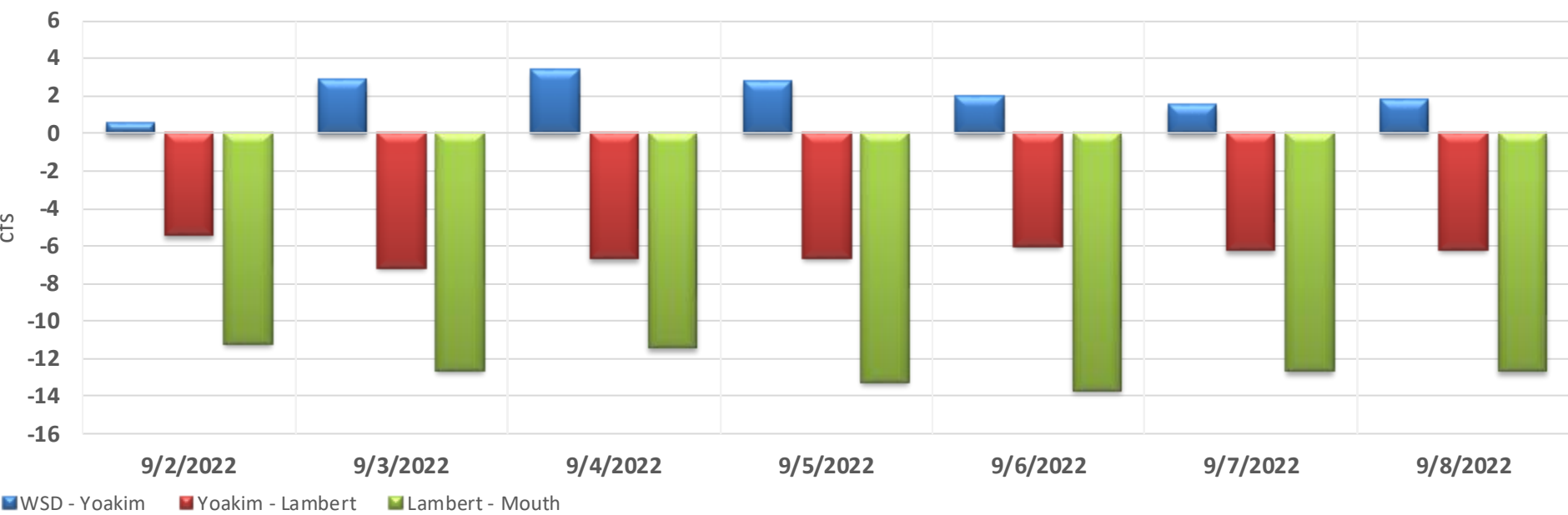
LOWER RUSSIAN RIVER STREAM FLOWS



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

Report Date: 9/9/2022

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



DRY CREEK STREAM FLOWS

