Lake Mendocino and Lake Sonoma Water Accounting Weekly Report (Terms 12 & 13 June 2021 TUCO)

Report Date: 10/1/2021

Units are cfs unless noted otherwise

			9/24/2021	9/25/2021	9/26/2021	9/27/2021	9/28/2021	9/29/2021	9/30/2021
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			30.0	30.0	30.0	30.0	30.0	30.0	30.0
PVID Requested Delivery			25.0	25.0	25.0	25.0	25.0	25.0	25.0
PVID Canals Actual Delivery			10.5	10.5	9.8	9.3	9.3	9.3	9.5
East Fork Release			19.5	19.5	20.2	20.7	20.7	20.7	20.5
PVID E Fork Diversions			14.5	14.5	15.2	15.7	15.7	15.7	15.5
PVID Water Use - PG&E Contract			25.0	25.0	25.0	25.0	25.0	25.0	25.0
PVID Water Use - License 5264			0.0	0.0	0.0	0.0	0.0	0.0	0.0
East Fork Downstream of PVID			5.0	5.0	5.0	5.0	5.0	5.0	5.0
PVID Canal Net Return Flow (assumed)			5.8	7.4	6.9	11.1	11.8	10.4	9.8
East Fork / Potter Valley Reach Analysis									
USGS E Fork @ Calpella			10.8	12.4	11.9	16.1	16.8	15.4	14.8
Net Reach Loss(-)/Gain(+)			-19.2	-17.6	-18.1	-13.9	-13.2	-14.6	-15.2
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 (neg. value is return flow)			0.0	0.0	0.0	0.0	0.0	0.0	0.0
II. Lake Mendocino									
Resrvoir Operations									
Calculated Inflow (ac-ft)			30.4	30.9	43.3	33.3	42.5	38.7	38.2
(cfs)			15	16	22	17	21	20	19
Natural Flow			0	0	0	0	0	0	0
Import			15	16	22	17	21	20	19
Storage Change (ac-ft)			-133.0	-133.0	-118.0	-124.0	-118.0	-123.0	-124.0
(cfs)			-67	-67	-59	-63	-59	-62	-63
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)			10.7	11.2	8.6	4.5	8.5	9.0	9.4
RVCWD Diversion (ac-ft)			0	0	0	0	0	0	0
CVD Release Gage			77	77	77	77	77	77	77
Storage (Project Water)			62	61	55	60	55	57	58
Natural Flow			0	0	0	0	0	0	0
Import Water			15	16	22	17	21	20	19
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	77	77	77	77	77	77	77
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			15	16	22	17	21	20	19
Project Water Release Required			Yes	Yes	Yes	Yes	Yes	Yes	Yes
III. Upper Russian River Reach									
Minimum Instream Flow Requirement			25	25	25	25	25	25	25
Controlling Compliance Gage									
Min Gage Flow			29	28	28	28	28	28	27
Controlling Gage			Digger Bend	Digger Bend	Digger Bend	Digger Bend	Digger Bend	Digger Bend	Digger Bend
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	77	77	77	77	77	77	77
Talmage	(USGS 11462080)	*96.1*	62	63	63	64	64	63	64
Hopland	(USGS 11462500)	*84.8*	52	52	53	56	54	52	53
Cloverdale	(USGS 11463000)	*70.9*	48	47	46	49	49	49	48
Geyserville	(USGS 11463500)	*54.4*	34	35	36	35	36	36	35
Jimtown	(USGS 11463682)	*48.5*	35	34	34	34	34	34	33
Digger Bend	(USGS 11463980)	*38.2*	29	28	28	28	28	28	27
Healdsburg	(USGS 11464000)	*35.6*	29	29	29	30	30	30	29
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			-15	-14	-14	-13	-13	-14	-13
Talmage - Hopland			-10	-11	-10	-8	-10	-12	-10
Hopland - Cloverdale			-5	-4	-6	-5	-7	-4	-4
Cloverdale - Jimtown			-14	-13	-14	-12	-13	-16	-16
Jimtown - Digger Bend			-7	-6	-6	-6	-6	-6	-6
Digger Bend - Healdsburg			+0	+1	+1	+2	+2	+2	+1
Upper Russian Net Reach Loss/Gain			-50	-47	-49	-42	-47	-49	-49
CVD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss(-)/Gain(+) to Controlling Gage			-51	-48	-50	-44	-49	-51	-50
Storage (Project Water)			51	48	50	44	49	51	50
Pass-through Water (Natural + Import)			0	0	0	0	0	0	0
Total Pass-through Water			15	16	22	17	21	20	19
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).

			9/24/2021	9/25/2021	9/26/2021	9/27/2021	9/28/2021	9/29/2021	9/30/2021
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			-185.0	-186.0	-215.0	-262.0	-200.0	-200.0	-199.0
(cfs)			-93	-94	-108	-132	-101	-101	-100
Evaporation (ac-ft)			12.2	11.1	10.0	8.9	13.3	14.4	13.2
Inflow (Natural Flow)			0	0	0	0	0	0	0
WSD Release Gage			84	84	84	84	84	84	84
Storage (Project Water)			84	84	84	84	84	84	84
Natural Flow			0	0	0	0	0	0	0
V. Lower Dry Creek Reach									
Minimum Instream Flow Requirement			25	25	25	25	25	25	25
Controlling Compliance Gage									
Min Gage Flow			76	76	77	77	74	74	73
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*	84	84	84	84	84	84	84
Yoakim	(USGS 11465200)	*11.1*	89	90	90	90	89	89	89
Lambert	(USGS 11465240)	*6.8*	91	91	92	92	91	90	90
Dry Crk Mouth	(USGS 11465350)	*0.1*	76	76	77	77	74	74	73
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			0	0	0	0	0	0	0
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+5	+6	+6	+6	+5	+5	+5
Yoakim - Lambert			+2	+1	+2	+2	+2	+1	+1
Lambert - Dry Crk Mouth			-15	-15	-15	-15	-17	-17	-17
WSD - Dry Crk Mouth			-8	-8	-7	-7	-10	-11	-11
WSD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss/Gain to Controlling Gage			-8	-8	-7	-7	-10	-11	-11
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			29	29	29	30	30	30	29
Natural Flow			0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			76	76	77	77	74	74	73
Natural Flow			0	0	0	0	0	0	0
Russian River d/s of Confluence Flow			105	105	106	107	104	103	102
L. Mendocino Project Water + Import Water			29	29	29	30	30	30	29
L. Sonoma Project Water			76	76	77	77	74	74	73
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			40	43	44	43	44	45	45
Controlling Gage			Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages		*Rvr mi.*							
Windsor	(USGS 11465390)	*26.6*	96	96	96	97	97	96	96
Hacienda	(USGS 11467000)	*21.8*	40	43	44	43	44	45	45
Confluence to Windsor Reach Analysis									
Net Reach Loss/Gain to Windsor Gage			-9	-10	-9	-10	-7	-7	-6
L. Mendocino Project Water + Import Water			29	29	29	30	30	30	29
L. Sonoma Project Water			70	71	72	73	69	69	68
Natural Flow			0	0	0	0	0	0	0
Confluence to SCWA Wohler Production Facility Reach Analysis									
Approx. Flow u/s of Wohler			112	102	104	99	100	103	98
Net Reach Loss(-)/Gain(+)			+7	-3	-2	-8	-5	-1	-4
L. Mendocino Project Water + Import Water			25	24	24	24	28	27	28
L. Sonoma Project Water			70	71	72	73	69	69	68
Natural Flow			16	7	7	2	3	7	2
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			-65	-62	-62	-63	-60	-59	-58
L. Mendocino Project Water + Import Water			25	24	24	24	28	27	28
L. Sonoma Project Water			0	12	12	17	14	11	15
Natural Flow			14	7	7	2	3	7	2
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			142.9	118.1	119.2	109.8	109.3	115.1	105.5
Wohler			74.9	75.5	78.2	93.8	79.9	86.8	103.5
Mirabel			67.9	42.6	40.9	15.9	29.5	28.4	2.0
Town of Windsor River Wellfield			10.0	10.1	9.6	8.6	9.6	10.0	10.1
Camp Meeker & Occidental			*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*	*0.1*
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			1.8	1.7	1.7	1.7	1.7	1.7	1.7

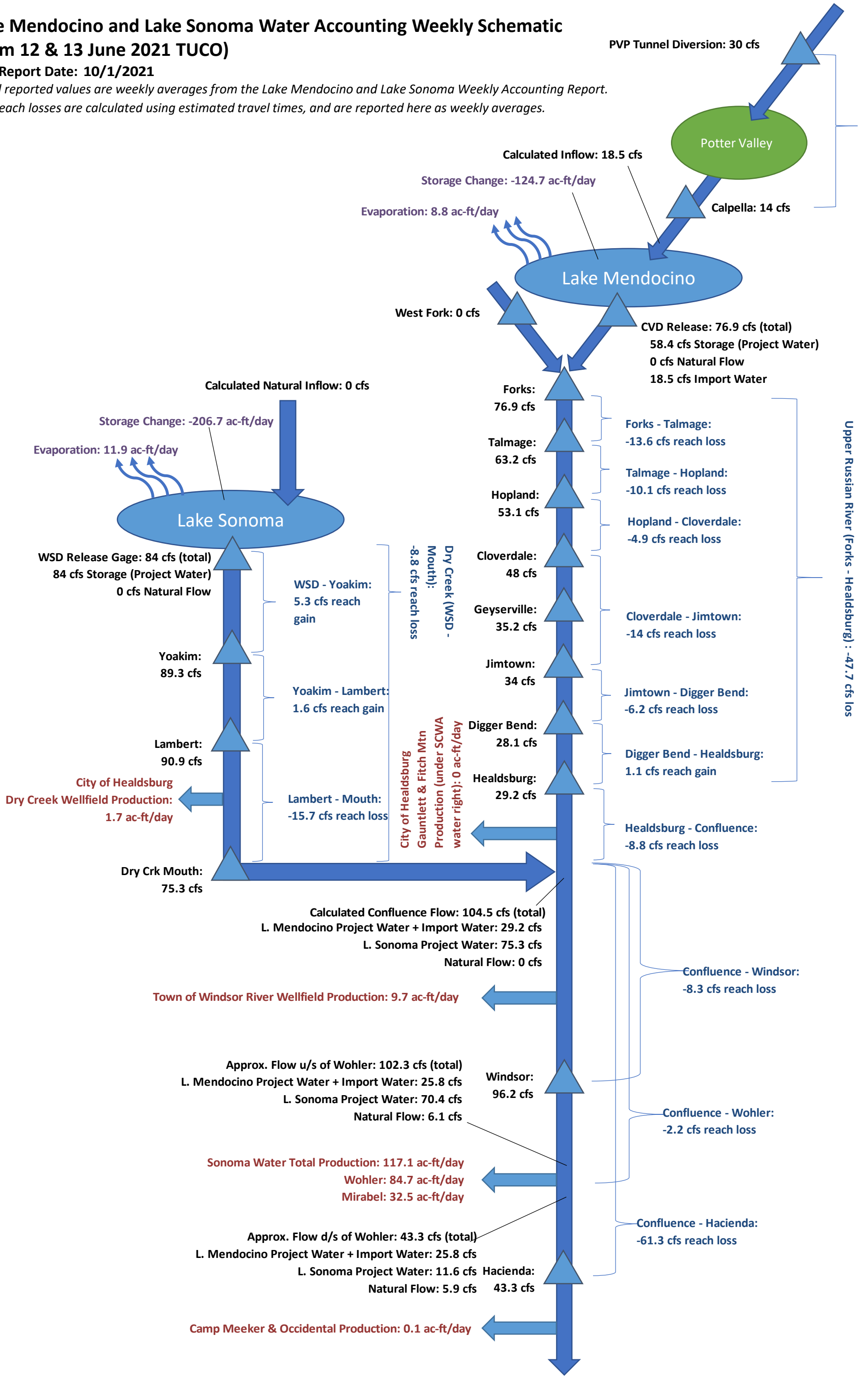
Notes:

- 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 & 13 June 2021 TUCO)

Report Date: 10/1/2021

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 12 June 2021 TUCO)

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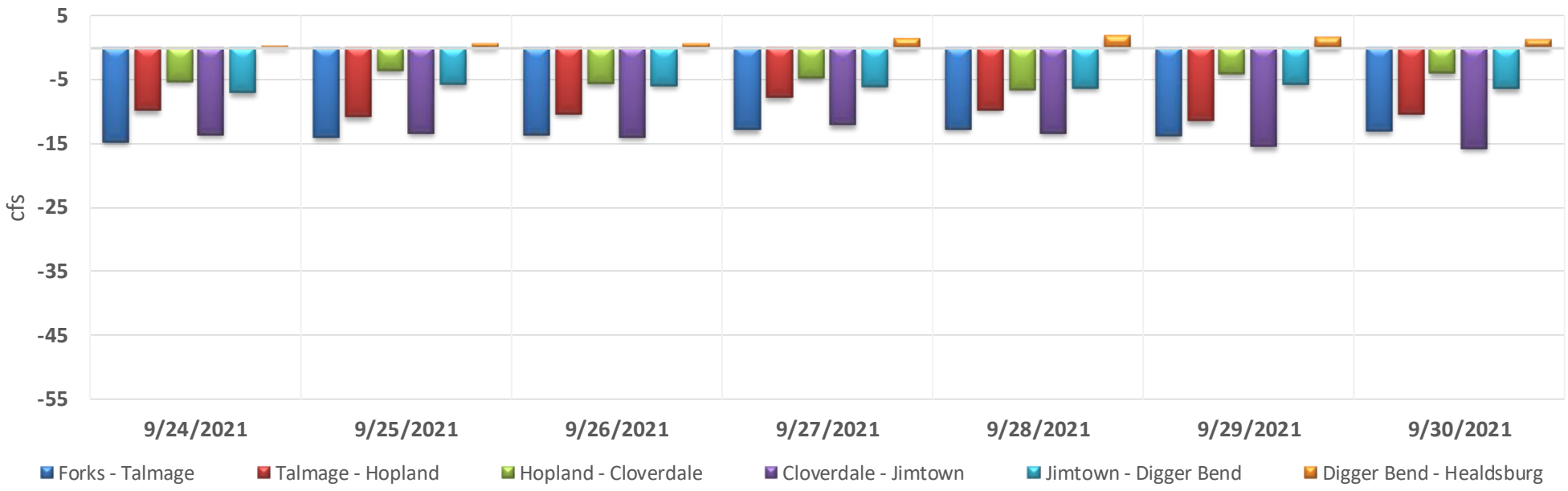
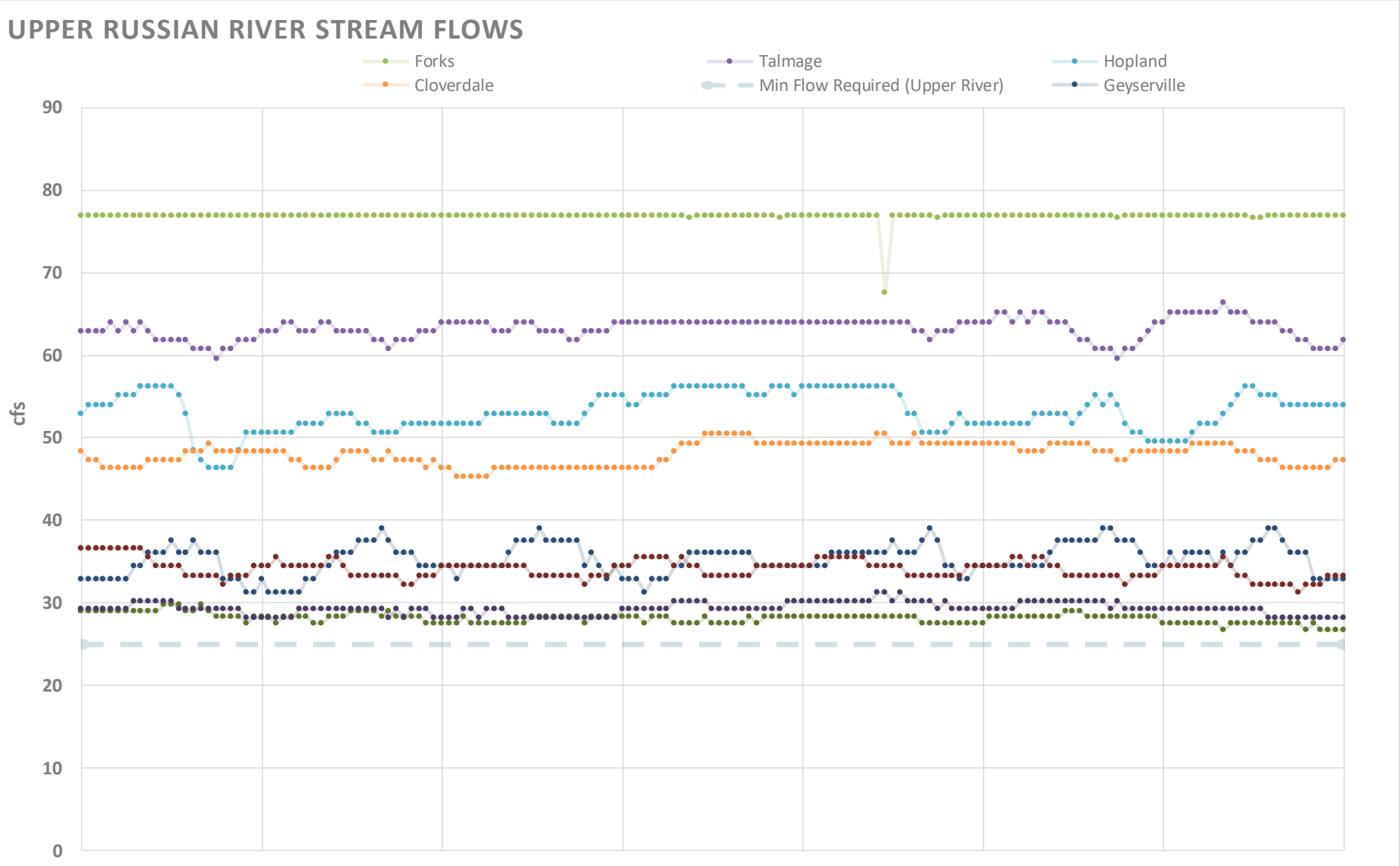
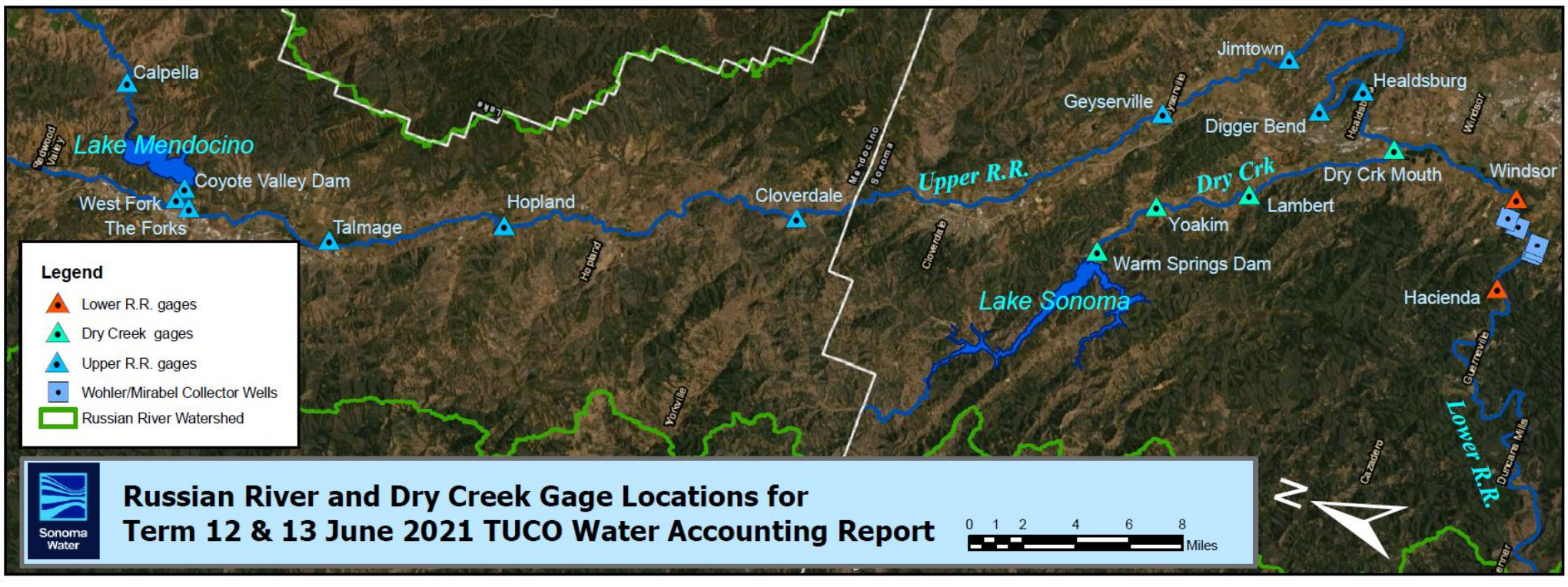
UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



UPPER RUSSIAN RIVER STREAM FLOWS





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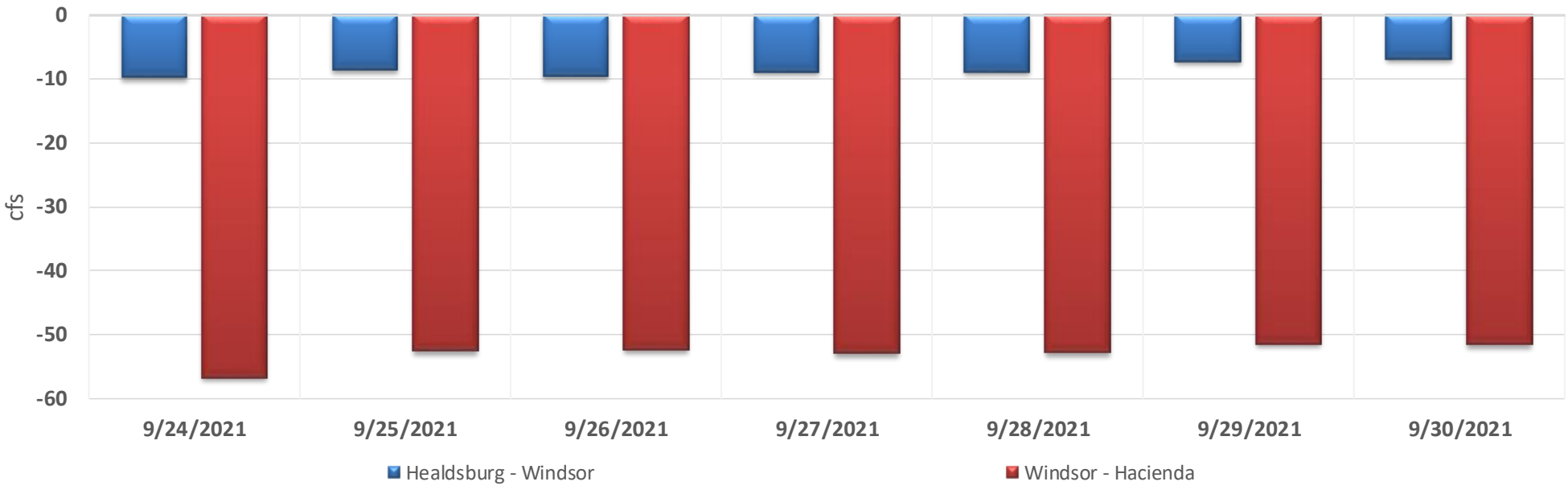
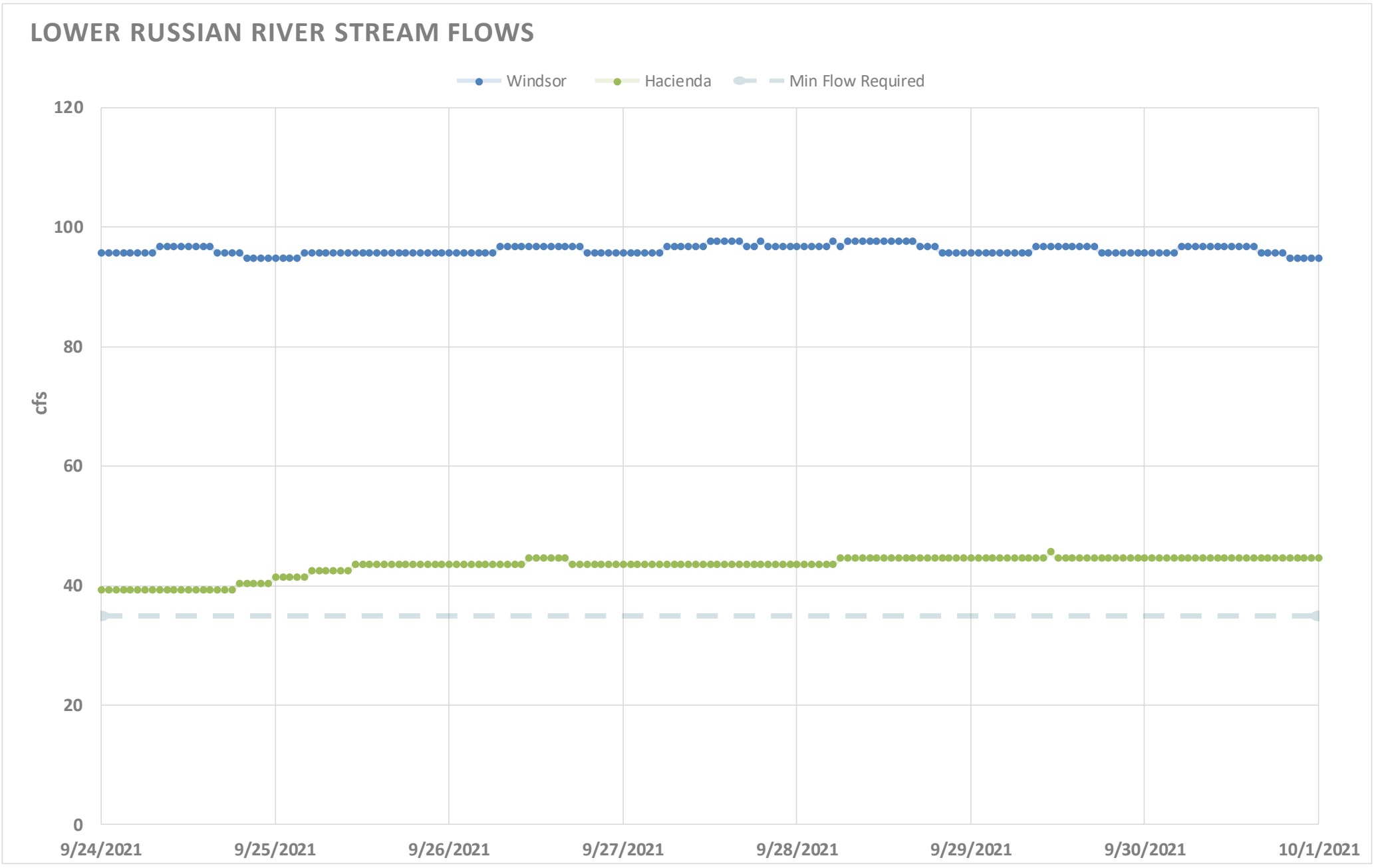
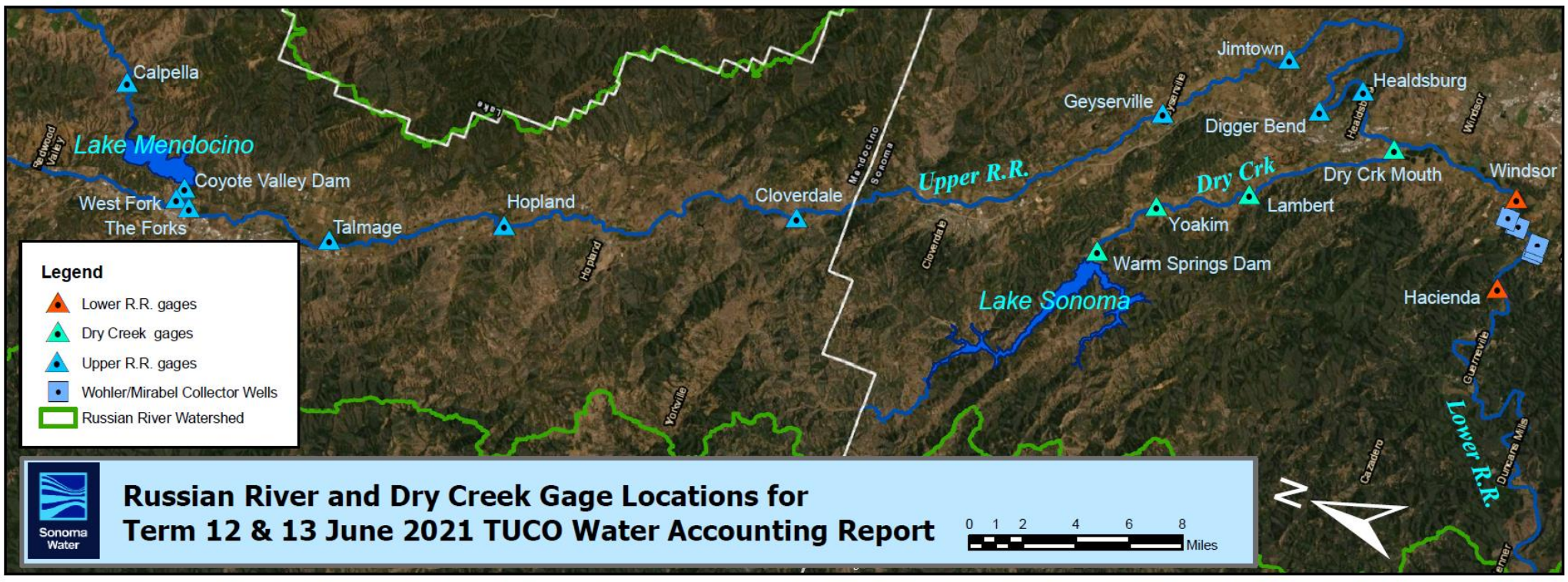
LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



LOWER RUSSIAN RIVER STREAM FLOWS





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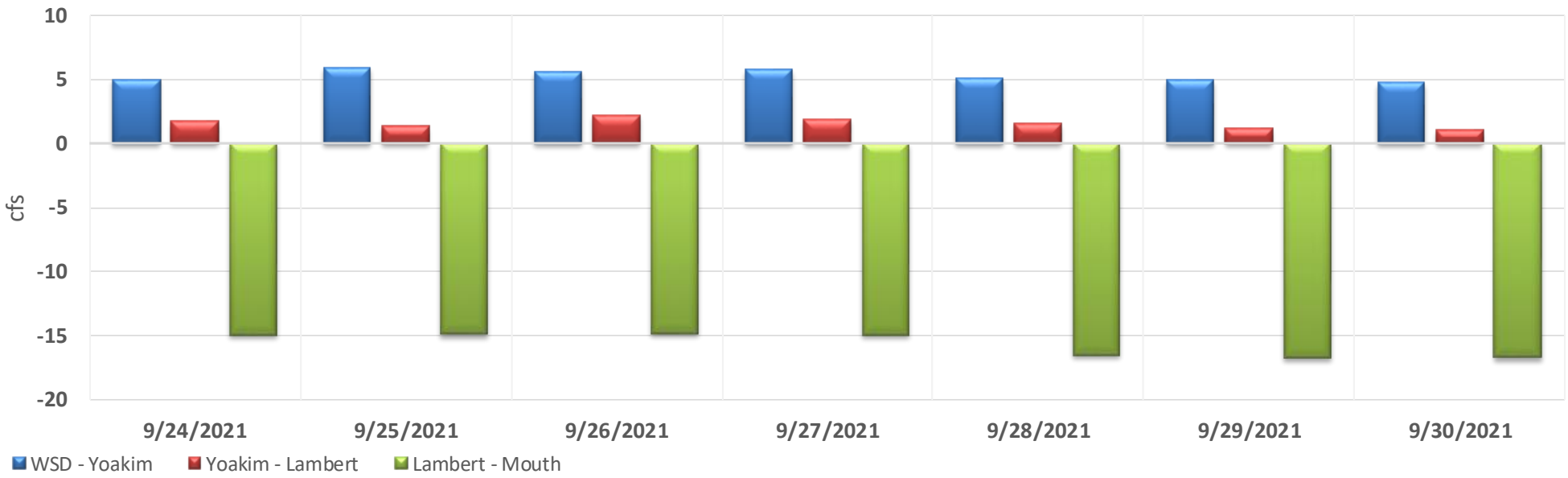
DRY CREEK NET REACH GAINS (+) / LOSSES (-)



DRY CREEK STREAM FLOWS