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

Report Date: 7/30/2021

Units are cfs unless noted otherwise

			7/23/2021	7/24/2021	7/25/2021	7/26/2021	7/27/2021	7/28/2021	7/29/2021
I. Upper East Fork Reach									
Potter Valley Project									
Tunnel Diversion			39.0	39.0	39.0	33.0	29.0	29.0	29.0
PVID Requested Delivery			35.0	35.0	35.0	28.4	25.0	25.0	25.0
PVID Canals Actual Delivery			16.6	16.6	16.6	12.3	10.4	12.3	10.4
East Fork Release			22.4	22.4	22.4	20.7	18.6	16.7	18.6
PVID E Fork Diversions			18.4	18.4	18.4	16.0	14.6	12.7	14.6
PVID Water Use - PG&E Contract			35.0	35.0	35.0	28.4	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			4.0	4.0	4.0	4.6	4.0	4.0	4.0
PVID Canal Net Return Flow (assumed)			5.9	6.9	7.9	6.2	8.6	6.0	4.9
East Fork / Potter Valley Reach Analysis									
USGS E Fork @ Calpella			9.9	10.9	11.9	10.8	12.6	10.0	8.9
Net Reach Loss(-)/Gain(+)			-29.1	-28.1	-27.1	-22.2	-16.4	-19.0	-20.1
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)			16.3	16.9	20.1	47.5	12.9	3.9	40.9
(cfs)			8	9	10	24	6	2	21
Natural Flow			0	0	0	0	0	0	0
Import			8	9	10	24	6	2	21
Storage Change (ac-ft)			-186.0	-186.0	-194.0	-173.0	-203.0	-221.0	-190.0
(cfs)			-94	-94	-98	-87	-102	-111	-96
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)			21.8	22.4	22.2	18.2	13.6	20.5	19.8
RVCWD Diversion (ac-ft) (est.)			0	0	0	0	0	0	0
CVD Release Gage			91	91	97	102	102	103	106
Storage (Project Water)			83	82	87	78	96	101	86
Natural Flow			0	0	0	0	0	0	0
Import Water			8	9	10	24	6	2	21
East Fork Min Instream Flow Requirement			25	25	25	25	25	25	25
Compliance Gage		*Rvr mi.*							
CVD Release		*99.9*	91	91	97	102	102	103	106
CVD Project Water Release to Meet Min Flow Requirement									
Total Pass-through Water			8	9	10	24	6	2	21
Project Water Release Required			Yes	Yes	Yes	Yes	Yes	Yes	Yes
III. Upper Russian River Reach									
Minimum Instream Flow Requirement			15	15	15	15	15	15	15
Controlling Compliance Gage									
Min Gage Flow			26	24	23	23	24	20	20
Controlling Gage			Digger Bend	Digger Bend	Healdsburg	Healdsburg	Healdsburg	Healdsburg	Healdsburg
All Compliance Gages		*Rvr mi.*							
Forks	(CVD + USGS 11461000)	*99.0*	91	91	97	102	102	103	106
Talmage	(USGS 11462080)	*96.1*	73	73	76	81	79	79	80
Hopland	(USGS 11462500)	*84.8*	63	65	66	74	75	77	74
Cloverdale	(USGS 11463000)	*70.9*	51	51	51	55	63	64	62
Geyserville	(USGS 11463500)	*54.4*	42	41	43	43	39	42	42
Jimtown	(USGS 11463682)	*48.5*	31	30	31	33	33	35	36
Digger Bend	(USGS 11463980)	*38.2*	26	24	23	24	25	24	26
Healdsburg	(USGS 11464000)	*35.6*	26	25	23	23	24	20	20
Net Reach Loss(-)/Gain(+)									
Forks - Talmage			-18	-18	-20	-20	-23	-23	-26
Talmage - Hopland			-9	-9	-7	-7	-4	-3	-4
Hopland - Cloverdale			-11	-11	-12	-12	-13	-12	-13
Cloverdale - Jimtown			-22	-21	-20	-20	-19	-26	-26
Jimtown - Digger Bend			-7	-7	-8	-9	-9	-10	-10
Digger Bend - Healdsburg			-1	-2	-2	-3	-3	-5	-5
Upper Russian Net Reach Loss/Gain			-69	-69	-70	-71	-71	-78	-85
CVD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss(-)/Gain(+) to Controlling Gage			-68	-67	-70	-71	-71	-78	-85
Storage (Project Water)			+68	+67	+70	+71	+71	+78	+85
Pass-through Water (Natural + Import)			+0	+0	+0	+0	+0	+0	+0
Total Pass-through Water			8	9	10	24	6	2	21
Project Water Release Required			Yes	Yes	Yes	No	Yes	Yes	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).

			7/23/2021	7/24/2021	7/25/2021	7/26/2021	7/27/2021	7/28/2021	7/29/2021
IV. Lake Sonoma									
Lake Sonoma									
Storage Change (ac-ft)			-251.0	-234.0	-250.0	-234.0	-233.0	-249.0	-232.0
(cfs)			-127	-118	-126	-118	-117	-126	-117
Evaporation (ac-ft)			24.2	24.2	23.1	14.7	17.8	23.0	24.0
Inflow (Natural Flow)			0	0	0	0	0	0	0
WSD Release Gage			99	99	99	99	100	99	100
Storage (Project Water)			99	99	99	99	100	99	100
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			86	86	88	90	90	89	87
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*	99	99	99	99	100	99	100
Yoakim	(USGS 11465200)	*11.1*	101	102	103	103	103	102	102
Lambert	(USGS 11465240)	*6.8*	108	108	110	110	109	108	108
Dry Crk Mouth	(USGS 11465350)	*0.1*	86	86	88	90	90	89	87
WSD to Russian River Confluence Reach Analysis									
Total Pass-through Water			0	0	0	0	0	0	0
Net Reach Loss(-)/Gain(+)									
WSD - Yoakim			+2	+3	+4	+4	+3	+3	+2
Yoakim - Lambert			+7	+6	+7	+7	+6	+6	+6
Lambert - Dry Crk Mouth			-22	-22	-21	-21	-19	-19	-21
WSD - Dry Crk Mouth			-13	-13	-11	-10	-9	-10	-13
WSD Project Water Release to Meet Min Flow Requirement									
Net Reach Loss/Gain to Controlling Gage			-13	-13	-11	-10	-9	-10	-13
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			26	25	23	23	24	20	20
Natural Flow			0	0	0	0	0	0	0
Dry Creek Flow (Mouth Gage)									
L. Sonoma Project Water			86	86	88	90	90	89	87
Natural Flow			0	0	0	0	0	0	0
Russian River d/s of Confluence Flow			112	111	111	113	114	109	107
L. Mendocino Project Water + Import Water			26	25	23	23	24	20	20
L. Sonoma Project Water			86	86	88	90	90	89	87
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			39	35	37	39	37	38	37
Controlling Gage			Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
All Compliance Gages		*Rvr mi.*							
Windsor	(USGS 11465390)	*26.6*	115	114	114	115	115	115	114
Hacienda	(USGS 11467000)	*21.8*	39	35	37	39	37	38	37
Confluence to Windsor Reach Analysis									
Net Reach Loss/Gain to Windsor Gage			+2	+3	+4	+2	+1	+6	+7
L. Mendocino Project Water + Import Water			26	25	23	23	24	20	20
L. Sonoma Project Water			81	81	83	85	85	84	81
Natural Flow			8	8	8	7	6	12	12
Confluence to SCWA Wohler Production Facility Reach Analysis									
Approx. Flow u/s of Wohler			100	96	112	111	98	92	115
Net Reach Loss(-)/Gain(+)			-12	-14	+2	-1	-16	-17	+8
L. Mendocino Project Water + Import Water			19	15	23	23	13	8	20
L. Sonoma Project Water			81	81	83	85	85	84	81
Natural Flow			0	0	6	4	0	0	13
Confluence to Hacienda (Guerneville) Reach Analysis									
Net Reach Loss(-)/Gain(+)			-73	-76	-73	-74	-77	-71	-71
L. Mendocino Project Water + Import Water			19	15	23	23	13	8	20
L. Sonoma Project Water			20	20	8	12	24	29	3
Natural Flow			0	0	6	4	0	0	13
VIII. Water Production under Sonoma Water Water Rights (ac-ft)									
Lower Russian River									
Sonoma Water Total			120.8	122.0	148.8	143.5	120.9	108.0	155.2
Wohler			74.6	77.1	73.4	77.5	73.3	76.5	75.2
Mirabel			46.2	44.9	75.4	65.9	47.6	31.6	79.9
Town of Windsor River Wellfield			10.3	9.5	9.4	10.0	10.1	10.7	11.3
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			3.0	2.6	1.1	1.7	2.5	2.7	2.5

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 (Terms 12 & 13 June 2021 TUCO)

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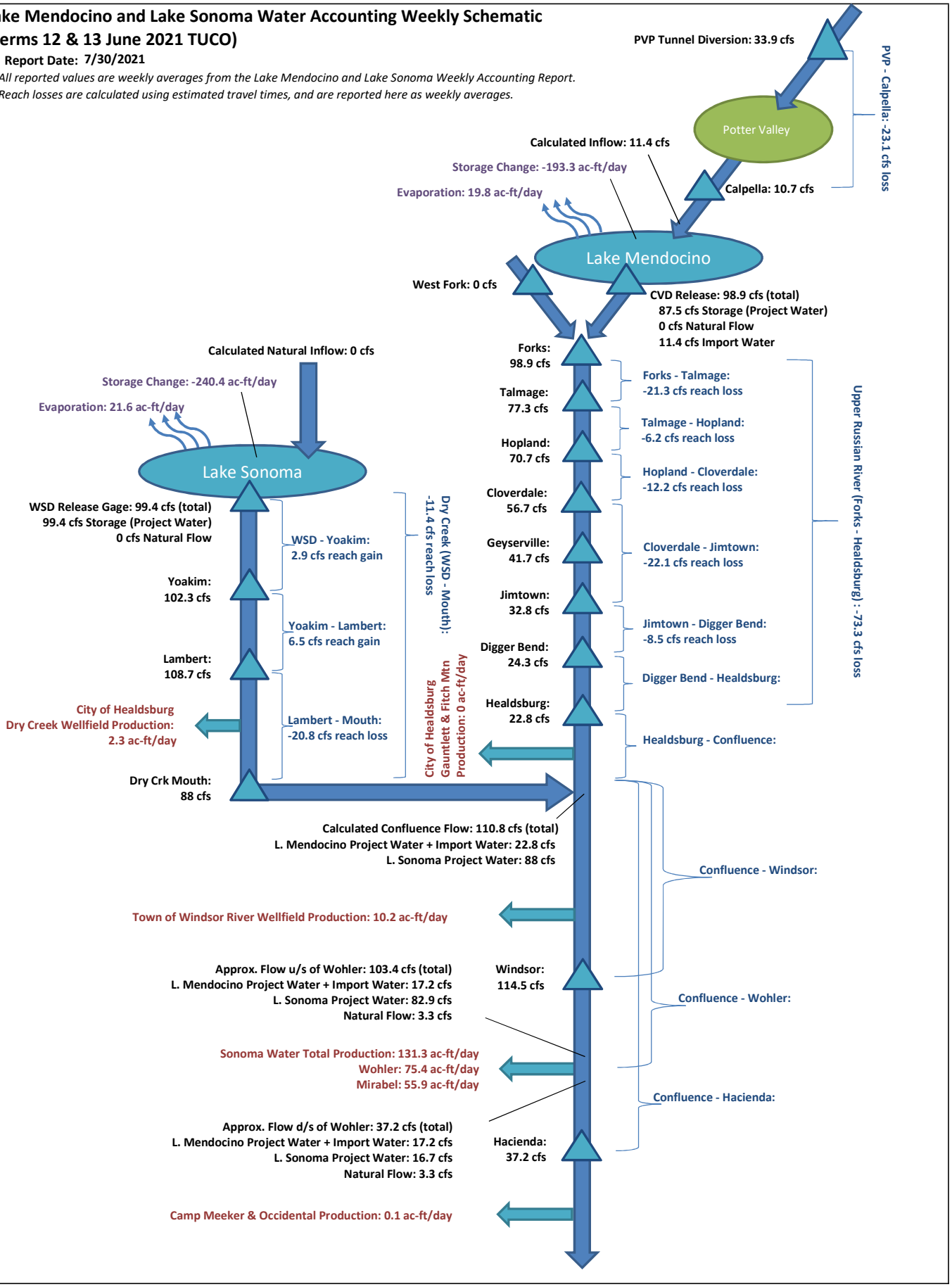
All reported values are weekly averages from the Lake Mendocino and Lake Sonoma Weekly Accounting Report.
Reach losses are calculated using estimated travel times, and are reported here as weekly averages.



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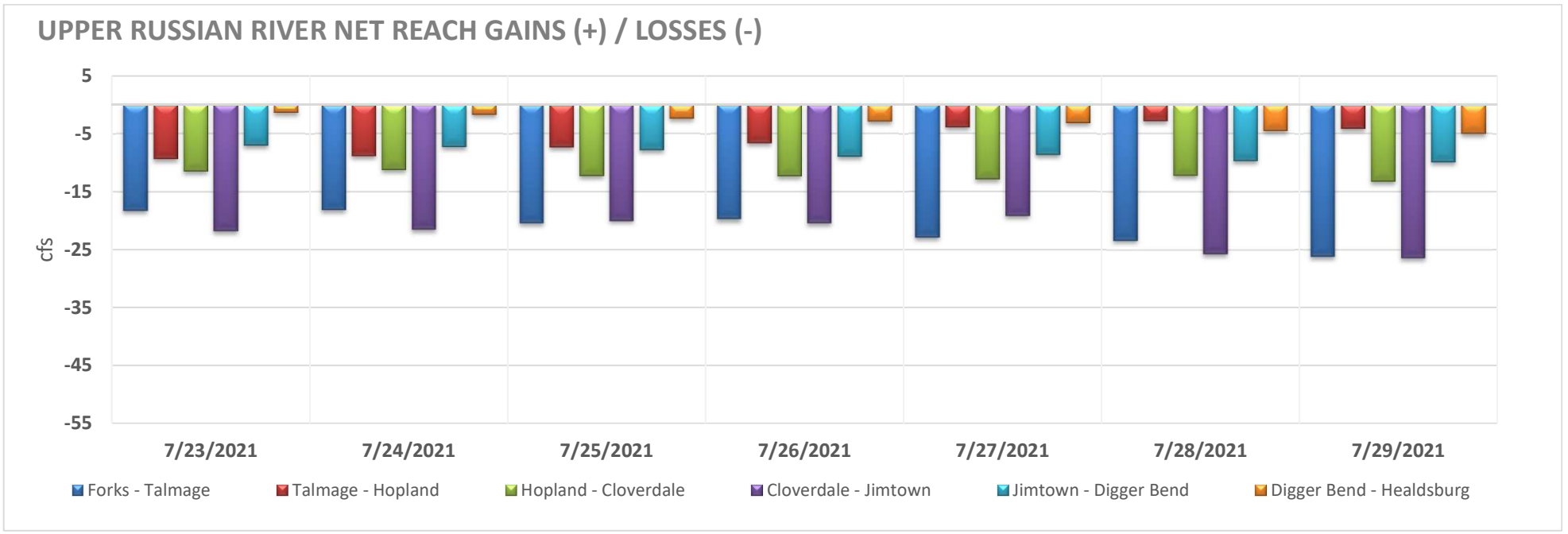

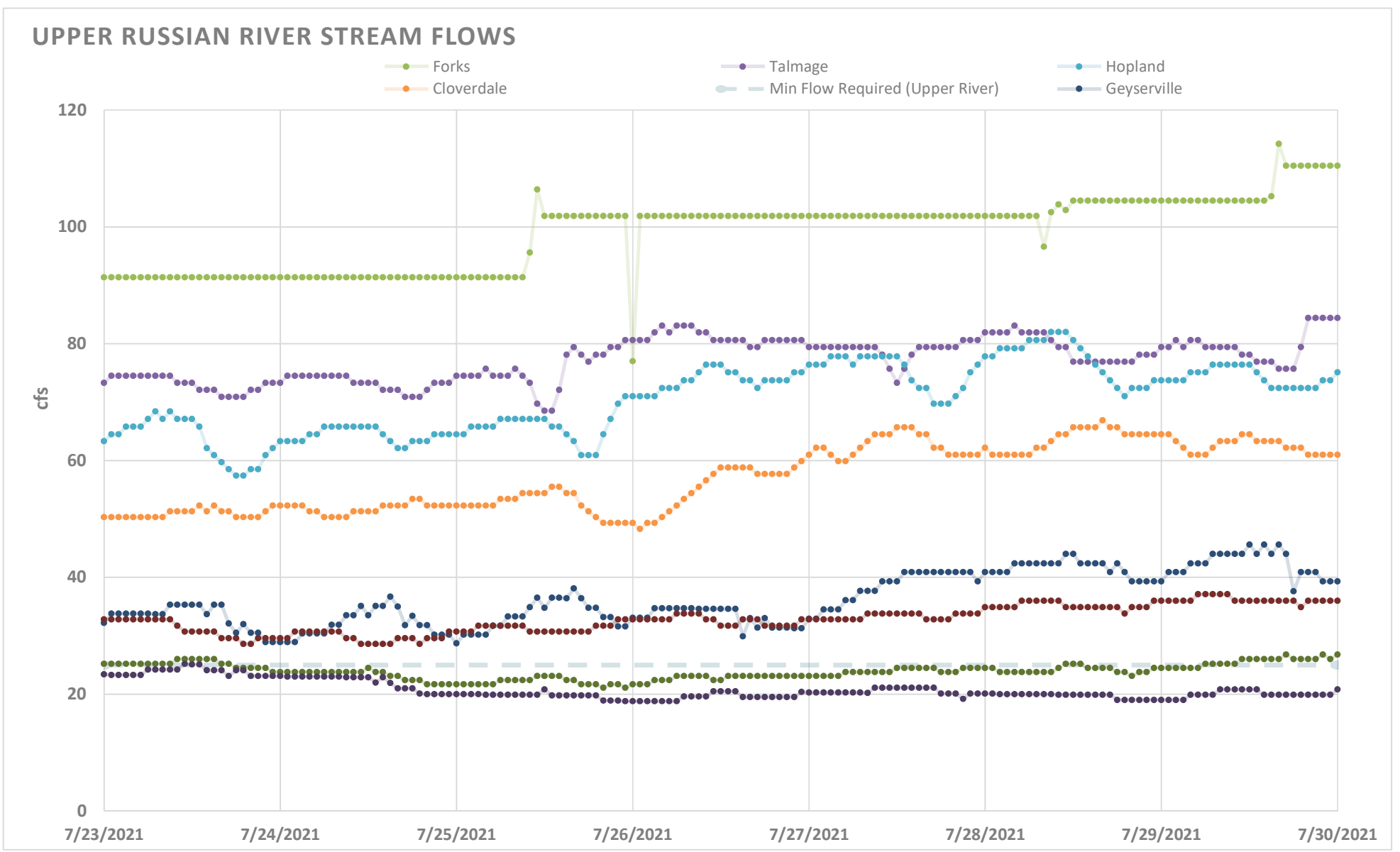

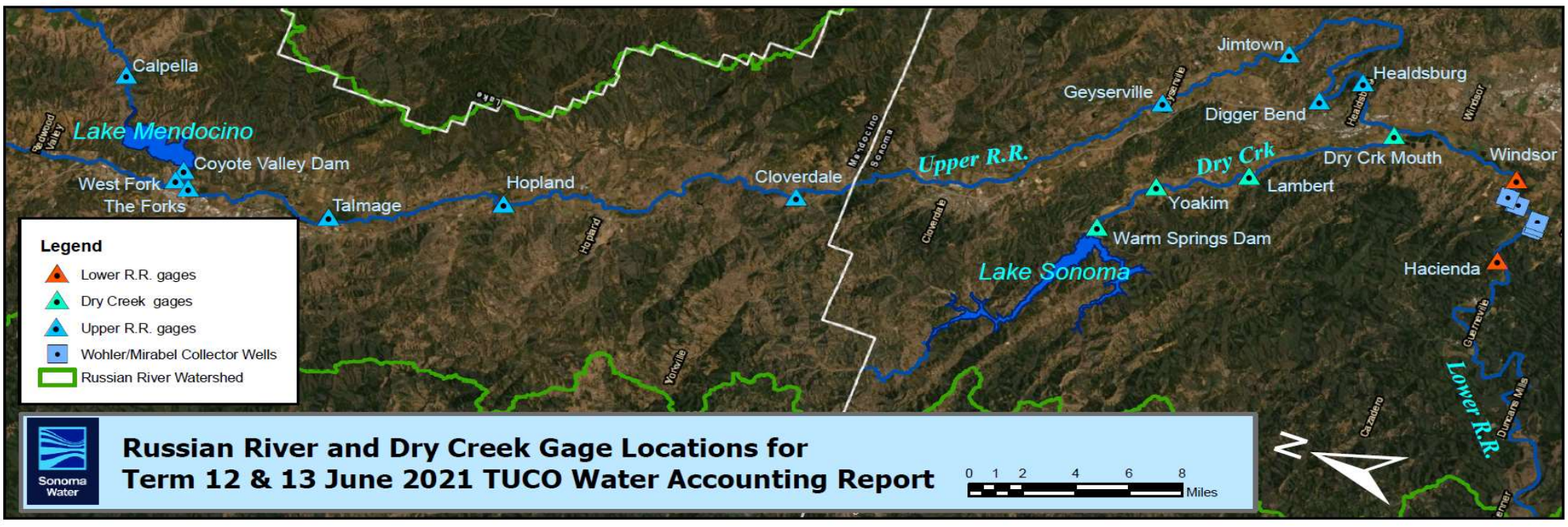

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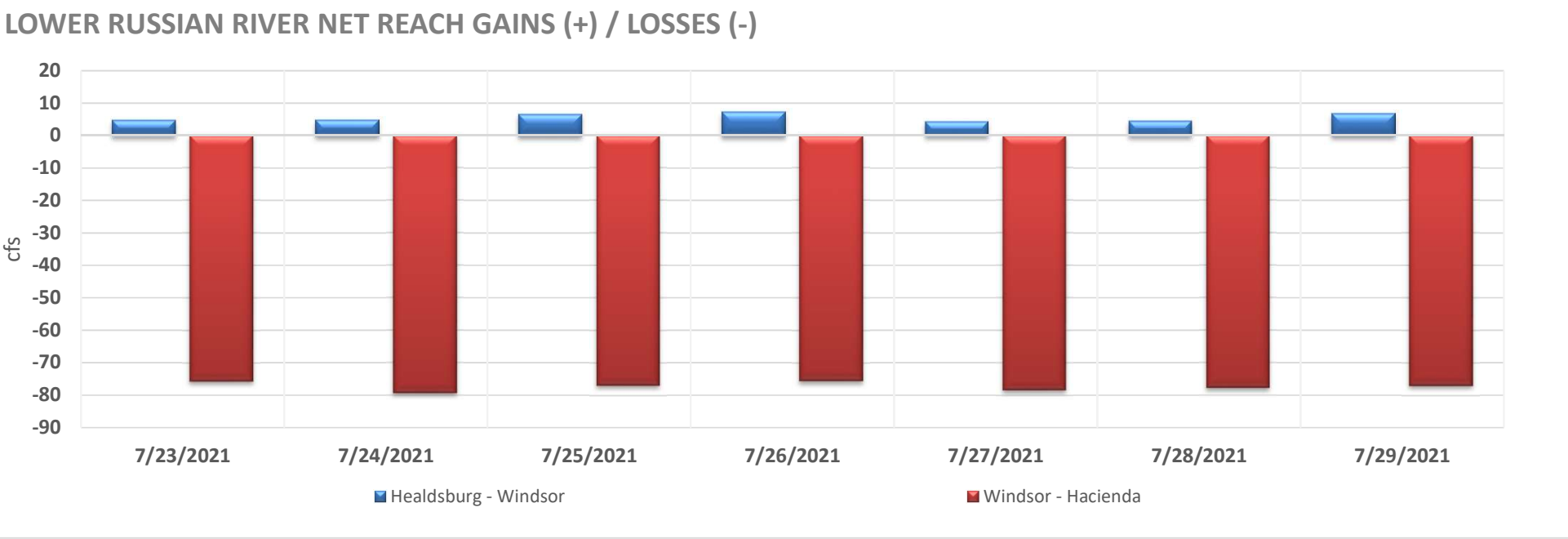

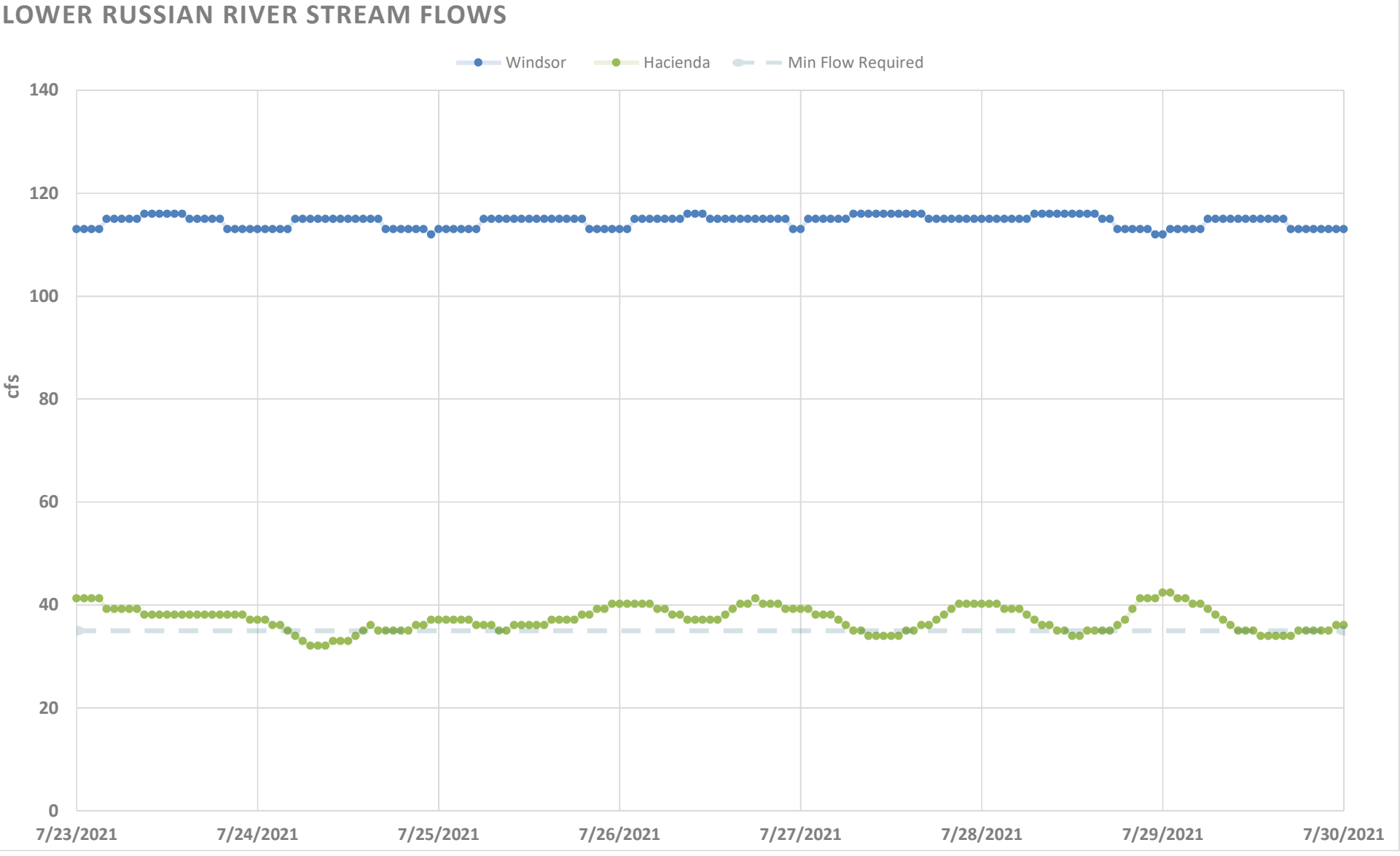

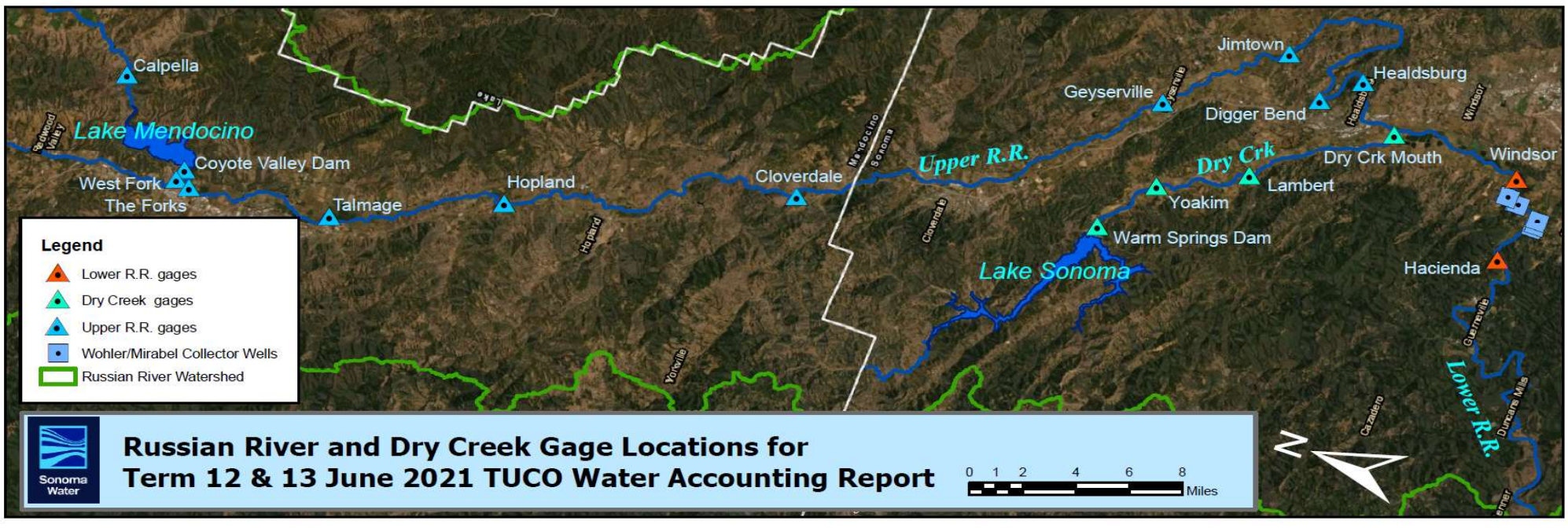

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