

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

Report Date: 10/28/2022

Units are cfs unless noted otherwise

10/21/2022   10/22/2022   10/23/2022   10/24/2022   10/25/2022   10/26/2022   10/27/2022

## I. Upper East Fork Reach

### Potter Valley Project

Tunnel Diversion	29.0	25.0	25.0	25.0	25.0	25.0	25.0
PVID Requested Delivery	23.4	20.0	20.0	20.0	20.0	20.0	20.0
PVID Canals Actual Delivery	11.7	9.8	9.9	9.8	9.8	9.8	9.8
East Fork Release	17.0	15.0	15.0	15.0	15.0	15.0	15.0
PVID E Fork Diversions	11.7	10.2	10.2	10.2	10.2	10.2	10.2
PVID Water Use - PG&E Contract	23.4	20.0	20.0	20.0	20.0	20.0	20.0
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)	5.3	4.8	4.9	4.8	4.8	4.8	4.8
PVID Canal Net Return Flow (assumed)	0.0	0.0	0.0	0.0	0.0	0.0	0.0

### East Fork / Potter Valley Reach Analysis

USGS E Fork @ Calpella	15.9	11.7	11.8	12.4	11.0	11.6	12.2
Net Reach Loss(-)/Gain(+)	-13.1	-13.3	-13.2	-12.7	-14.0	-13.4	-12.8
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.)	-10.3	-6.7	-6.8	-7.4	-6.0	-6.6	-7.2
Natural Flow	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import (neg. value is return flow)	-10.3	-6.7	-6.8	-7.4	-6.0	-6.6	-7.2

## II. Lake Mendocino

### Reservoir Operations

Calculated Inflow (ac-ft)	35	-7	6	7	32	33	-7
(cfs)	18	-4	3	3	16	16	-4
Natural Flow	2	0	0	0	5	5	0
Import	16	5	3	3	11	12	5
Storage Change (ac-ft)	-81.0	-121.0	-107.0	-107.0	-80.0	-80.0	-120.0
(cfs)	-41	-61	-54	-54	-40	-40	-61
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)	14.8	12.7	11.6	12.6	10.5	11.6	11.5
RVCWD Diversion (ac-ft)	0	0	0	0	0	0	0
CVD Release Gage	51	51	51	51	51	51	51
Storage (Project Water)	33	46	48	48	35	35	46
Natural Flow	2	0	0	0	5	5	0
Import Water	16	5	3	3	11	12	5
<b>East Fork Min Instream Flow Requirement</b>	25	25	25	25	25	25	25

### Compliance Gage

*Rvr mi.*

CVD Release	<i>99.9</i>	51	51	51	51	51	51
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### CVD Project Water Release to Meet Min Flow Requirement

Total Pass-through Water	18	5	3	3	16	16	5
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	25
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### Controlling Compliance Gage

Min Gage Flow	35	34	33	34	33	33	32
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)	<i>99.0</i>	51	51	51	51	51	51
Talmage (USGS 11462080)	<i>96.1</i>	48	46	46	46	49	43
Hopland (USGS 11462500)	<i>84.8</i>	44	43	44	43	44	42
Cloverdale (USGS 11463000)	<i>70.9</i>	40	41	40	41	39	39
Geyserville (USGS 11463500)	<i>54.4</i>	38	37	37	39	38	38
Jimtown (USGS 11463682)	<i>48.5</i>	39	39	40	40	41	39
Digger Bend (USGS 11463980)	<i>38.2</i>	35	34	33	34	33	32
Healdsburg (USGS 11464000)	<i>35.6</i>	38	38	37	37	37	36

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

Forks - Talmage	-3	-5	-5	-5	-2	-4	-8
Talmage - Hopland	-3	-4	-1	-2	-5	-4	-5
Hopland - Cloverdale	-4	-4	-3	-4	-5	-5	-4
Cloverdale - Jimtown	-1	-1	-1	+0	-1	+1	+0
Jimtown - Digger Bend	-5	-5	-7	-7	-7	-7	-8
Digger Bend - Healdsburg	+3	+4	+4	+4	+4	+4	+4
Upper Russian Net Reach Loss/Gain	-13	-15	-12	-14	-16	-15	-20

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

Net Reach Loss(-)/Gain(+) to Controlling Gage	-16	-18	-16	-18	-19	-19	-24
Storage (Project Water)	-16	-18	-16	-18	-19	-19	-24
Pass-through Water (Nat. + Imp.) + Natural	0	0	0	0	0	0	0
Total Pass-through Water	18	5	3	3	16	16	5
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).

**IV. Lake Sonoma**

**Lake Sonoma**

Storage Change (ac-ft)	-180.0	-225.0	-210.0	-210.0	-209.0	-194.0	-209.0
(cfs)	-91	-113	-106	-106	-105	-98	-105
Evaporation (ac-ft)	7.0	10.5	9.4	10.5	9.3	9.3	8.1
Inflow (Natural Flow)	4	0	0	0	0	0	0
WSD Release Gage	91	88	88	88	88	88	88
Storage (Project Water)	87	88	88	88	88	88	88
Natural Flow	4	0	0	0	0	0	0

**V. Lower Dry Creek Reach**

<b>Minimum Instream Flow Requirement</b>	80	80	80	80	80	80	80
<b>Controlling Compliance Gage</b>							
Min Gage Flow	84	83	85	85	85	85	85
Controlling Gage	Yoakim	Yoakim	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	91	88	88	88	88	88
Yoakim (USGS 11465200)	11.1	84	83	85	88	91	90
Lambert (USGS 11465240)	6.8	90	88	89	89	89	89
Dry Crk Mouth (USGS 11465350)	0.1	85	83	85	85	85	85
<b>WSD to Russian River Confluence Reach Analysis</b>							
Total Pass-through Water	4	0	0	0	0	0	0
<b>Net Reach Loss(-)/Gain(+)</b>							
WSD - Yoakim	-7	-5	-3	-0	+3	+2	-1
Yoakim - Lambert	+6	+5	+4	+1	-2	-1	+1
Lambert - Dry Crk Mouth	-6	-5	-5	-4	-4	-4	-4
WSD - Dry Crk Mouth	-7	-5	-3	-3	-3	-3	-4
<b>WSD Project Water Release to Meet Min Flow Requirement</b>							
Net Reach Loss/Gain to Controlling Gage	-7	-5	-3	-3	-3	-3	-4
Project Water Release Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**VI. Russian River - Dry Creek Confluence**

<b>Upper Russian River Flow (Healdsburg Gage)</b>							
L. Mendocino Project Water + Import Water	38	38	37	37	37	37	36
Natural Flow	0	0	0	0	0	0	0
<b>Dry Creek Flow (Mouth Gage)</b>							
L. Sonoma Project Water	87	88	88	88	88	88	88
Natural Flow	0	0	0	0	0	0	0
<b>Russian River d/s of Confluence Flow</b>	123	121	122	122	122	122	122
L. Mendocino Project Water + Import Water	38	38	37	37	37	37	36
L. Sonoma Project Water	87	88	88	88	88	88	88
Natural Flow	0	0	0	0	0	0	0

**VII. Lower Russian River Reach**

<b>Minimum Instream Flow Requirement</b>	35	35	35	35	35	35	35
<b>Controlling Compliance Gage</b>							
Min Gage Flow	75	75	70	71	71	72	68
Controlling Gage	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda	Hacienda
<b>All Compliance Gages</b>	<i>Rvr mi.</i>						
Windsor (USGS 11465390)	26.6	<i>n/d</i>	<i>n/d</i>	<i>n/d</i>	<i>n/d</i>	<i>n/d</i>	<i>n/d</i>
Hacienda (USGS 11467000)	21.8	75	75	70	71	72	68
<b>Confluence to Windsor Reach Analysis</b>							
Net Reach Loss/Gain to Windsor Gage	-	-	-	-	-	-	-
L. Mendocino Project Water + Import Water	-	-	-	-	-	-	-
L. Sonoma Project Water	-	-	-	-	-	-	-
Natural Flow	-	-	-	-	-	-	-
<b>Confluence to SCWA Wohler Production Facility Reach Analysis</b>							
<b>Approx. Flow u/s of Wohler</b>	121	133	125	120	118	137	115
Net Reach Loss(-)/Gain(+)	-1	+12	+4	-2	-4	+15	-7
L. Mendocino Project Water + Import Water	38	38	37	37	37	37	36
L. Sonoma Project Water	84	84	85	85	84	84	84
Natural Flow	0	12	4	0	0	15	0
<b>Confluence to Hacienda (Guerneville) Reach Analysis</b>							
Net Reach Loss(-)/Gain(+)	-48	-47	-52	-51	-51	-50	-54
L. Mendocino Project Water + Import Water	38	38	37	37	37	37	36
L. Sonoma Project Water	37	26	29	36	37	20	37
Natural Flow	0	12	4	0	0	15	0

**VIII. Water Production under Sonoma Water Water Rights (ac-ft)**

<b>Lower Russian River</b>							
Sonoma Water Total	93.0	116.1	109.8	96.8	92.9	127.9	93.2
Wohler	45.9	45.5	47.8	48.6	46.6	59.1	48.9
Mirabel	47.1	70.6	62.0	48.2	46.3	68.8	44.3
Town of Windsor River Wellfield	7.1	7.1	7.0	6.9	7.8	7.3	8.3
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:

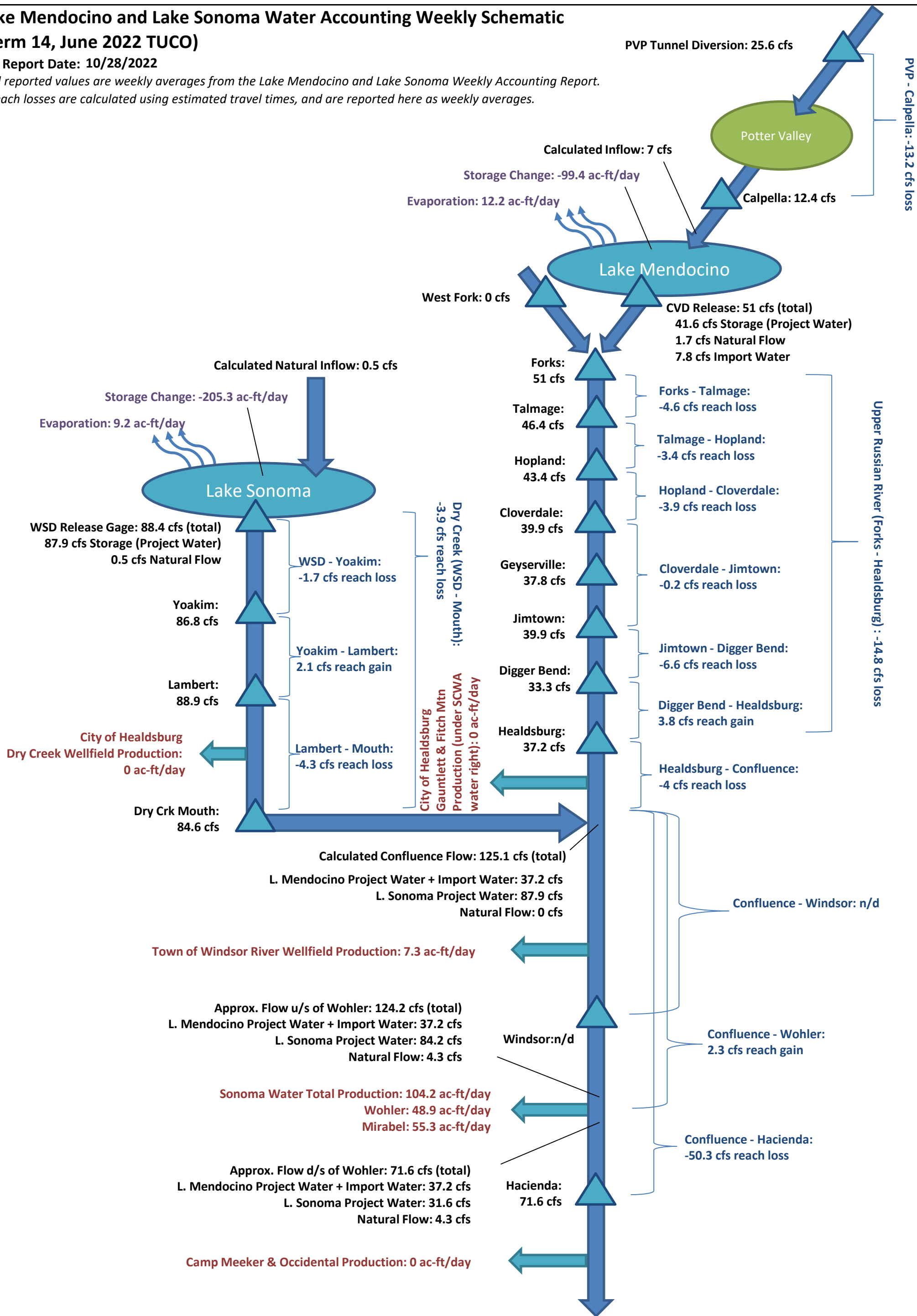
- Water Accounting for the Lower Russian River and Dry Creek is an analysis that approximates the current conditions based on the methodology in Term 12 (6/14/21 Order) report. Values listed include estimated values where measurements are not currently available (red italics).

# Lake Mendocino and Lake Sonoma Water Accounting Weekly Schematic

(Term 14, June 2022 TUCO)

Report Date: 10/28/2022

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.

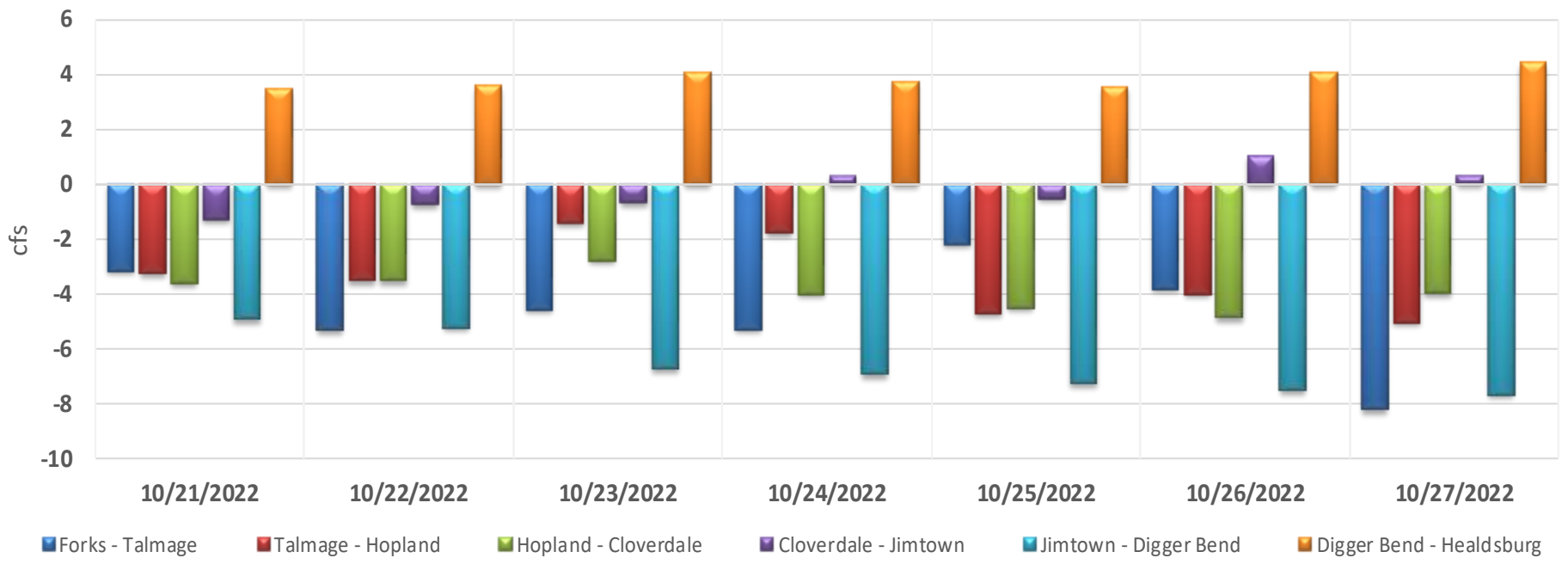




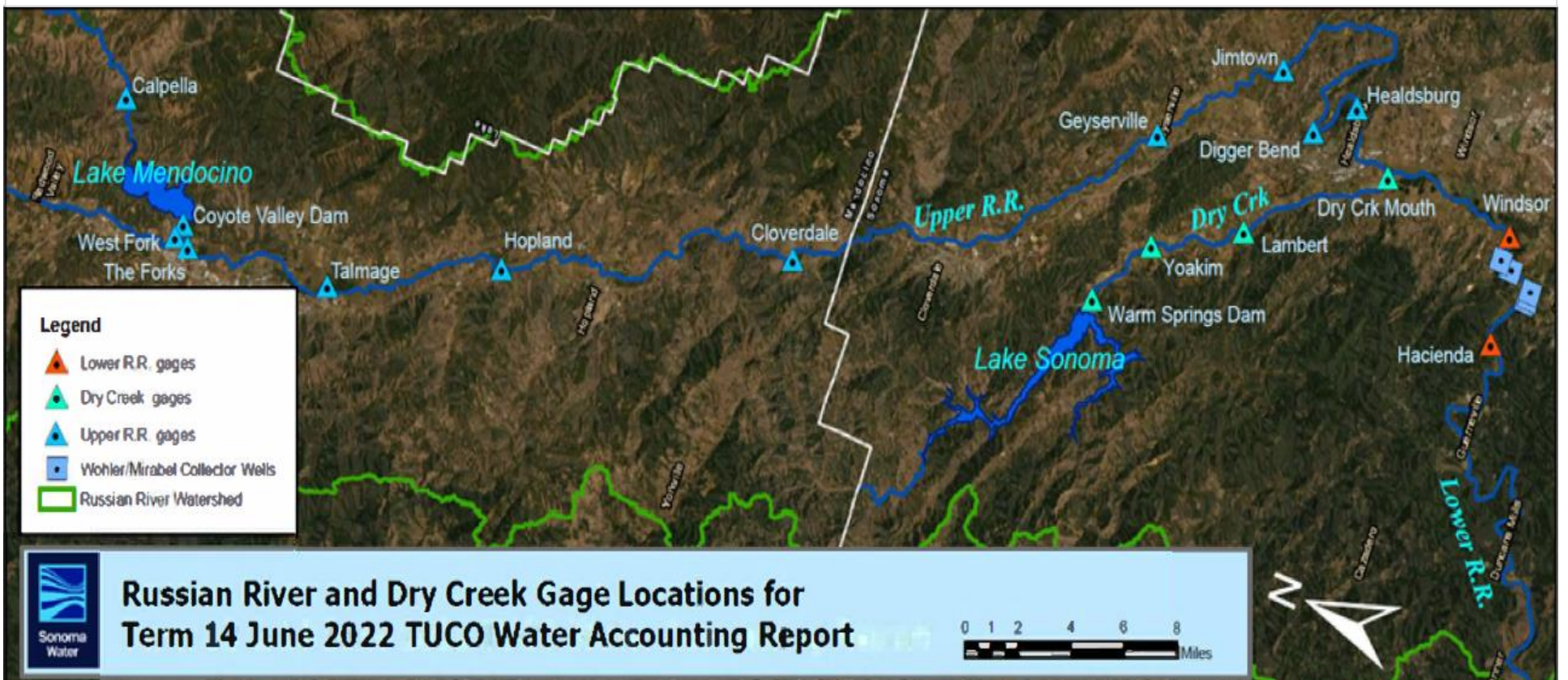
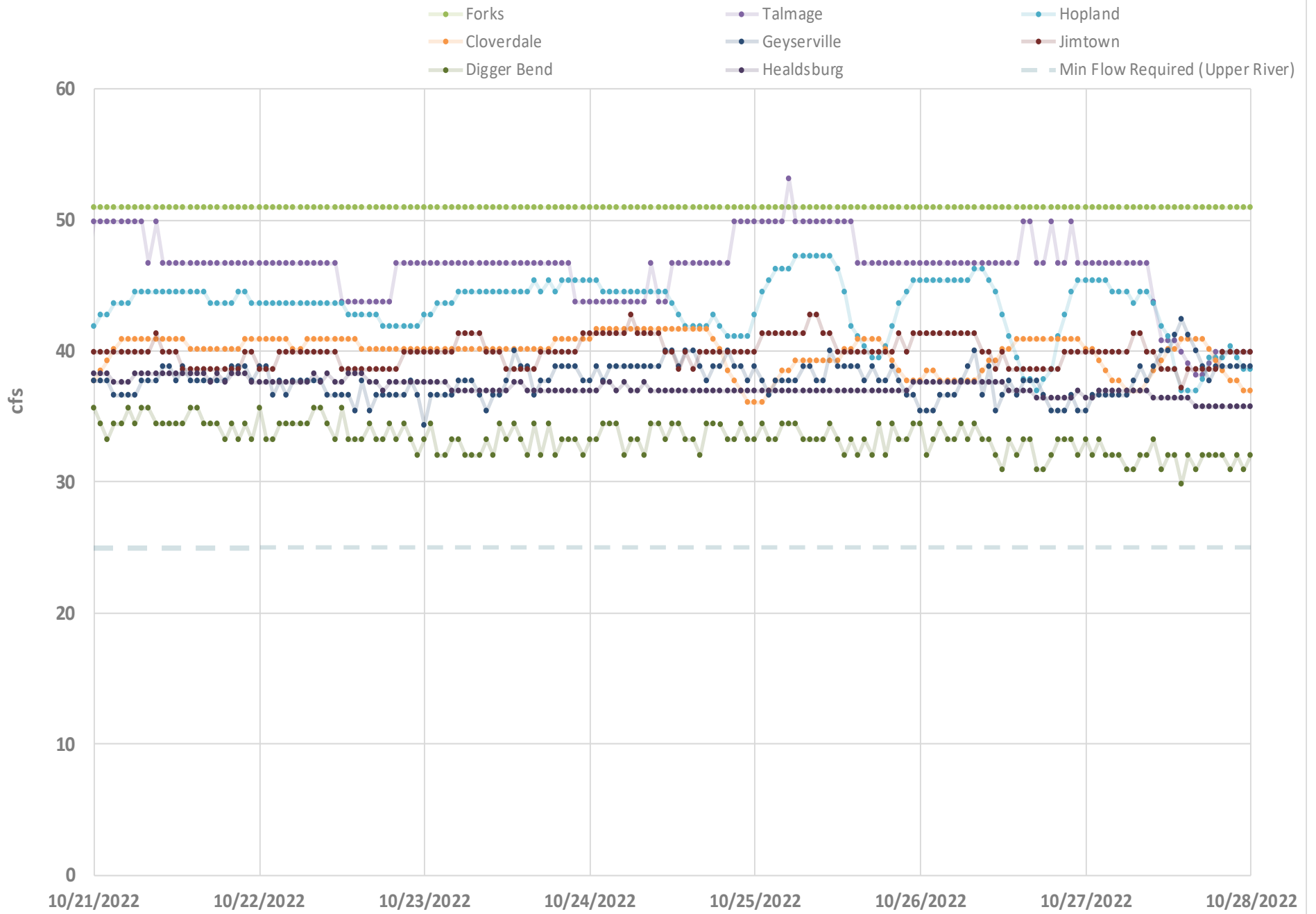
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## UPPER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



## UPPER RUSSIAN RIVER STREAM FLOWS

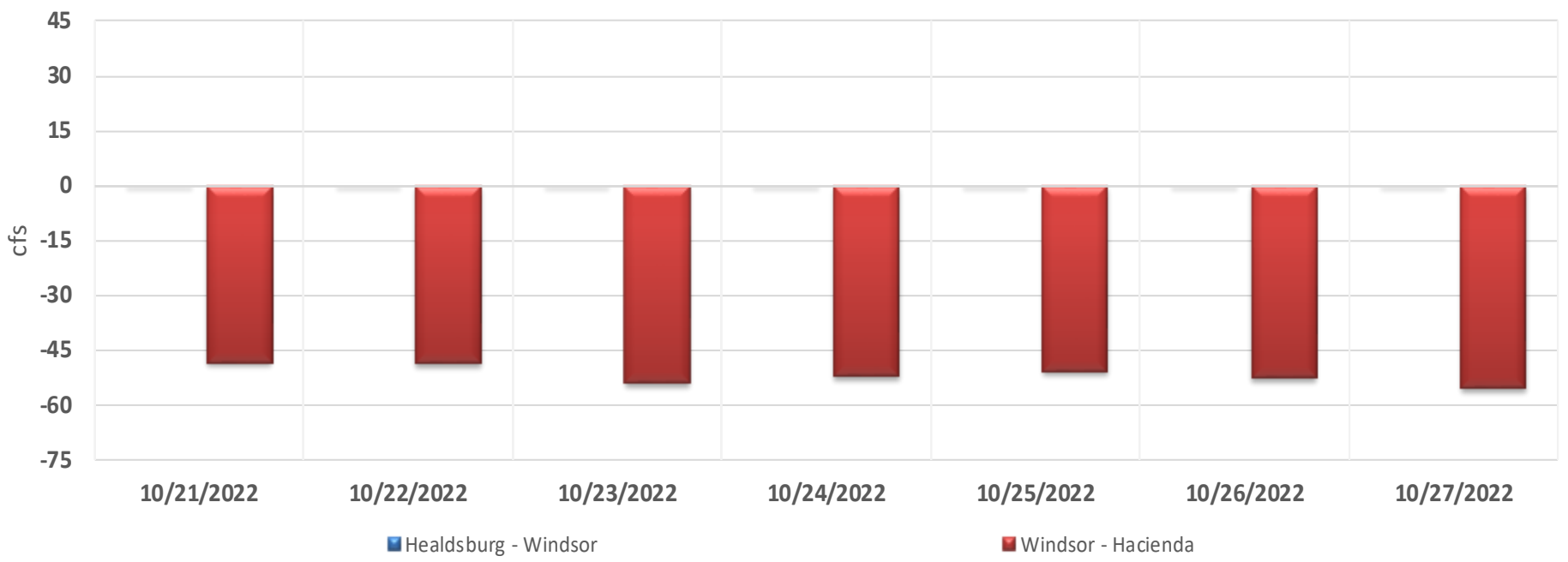




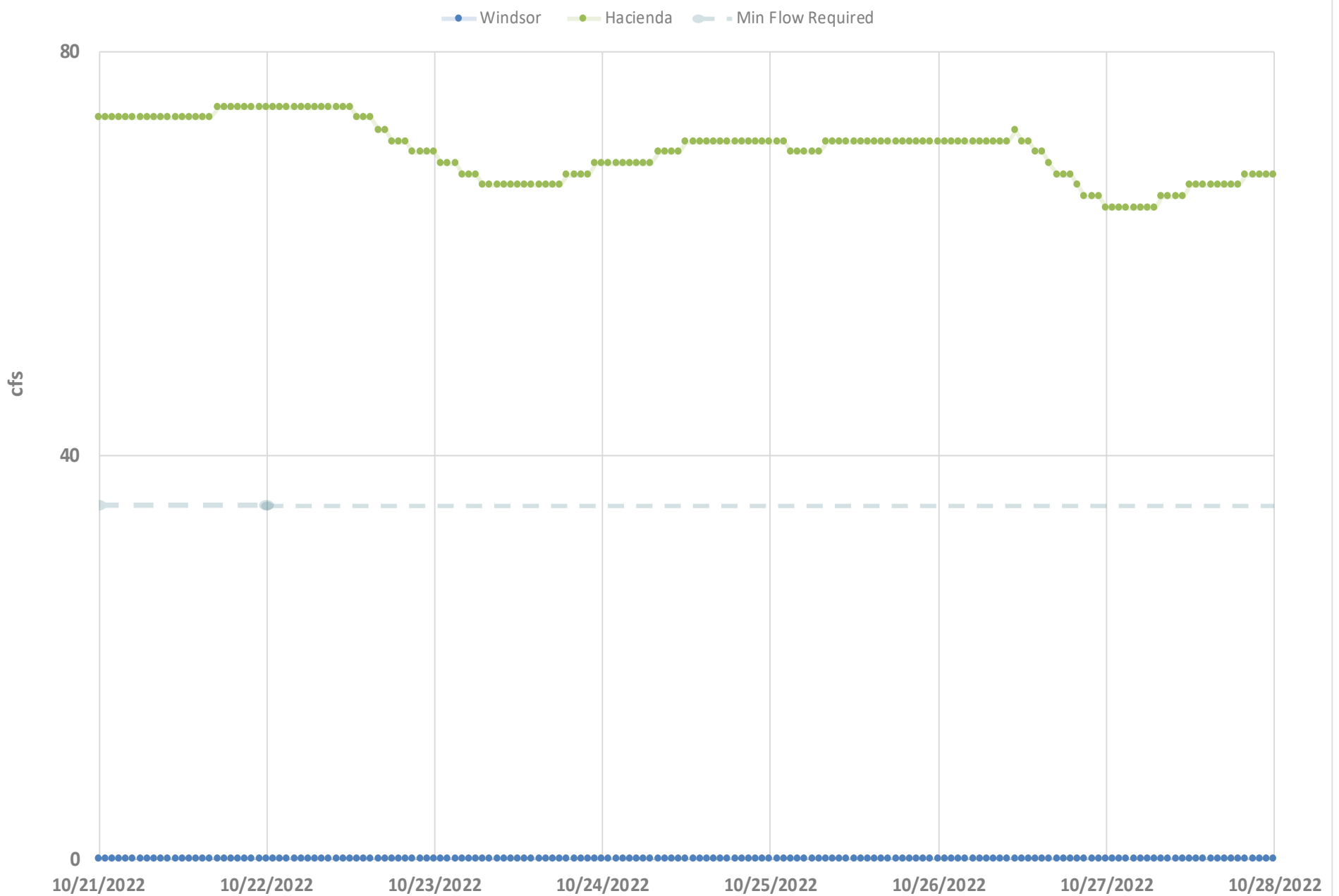
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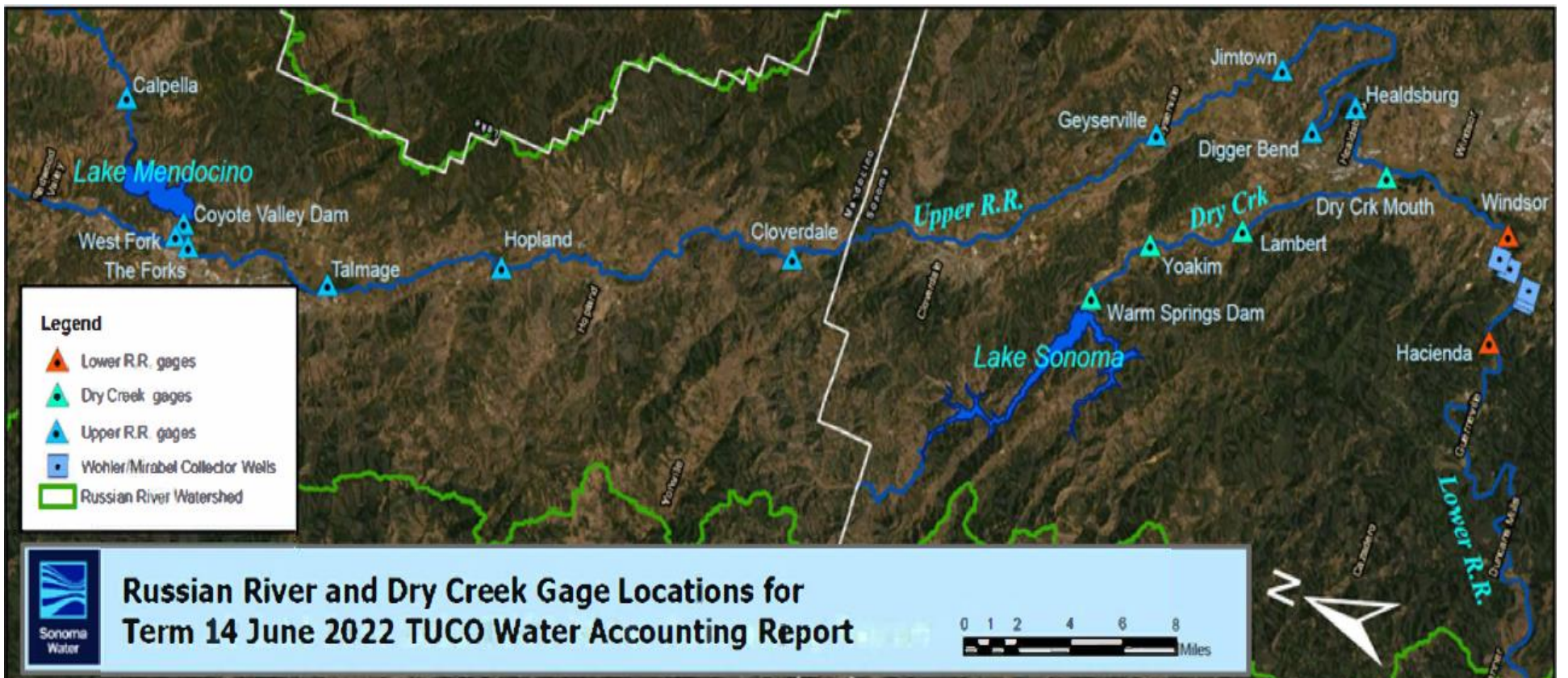
## LOWER RUSSIAN RIVER NET REACH GAINS (+) / LOSSES (-)



## LOWER RUSSIAN RIVER STREAM FLOWS



Note: Windsor gage is a seasonal gage and currently not operational. Windsor – Hacienda reach gain/loss is calculated with Healdsburg gages as the upstream gage.

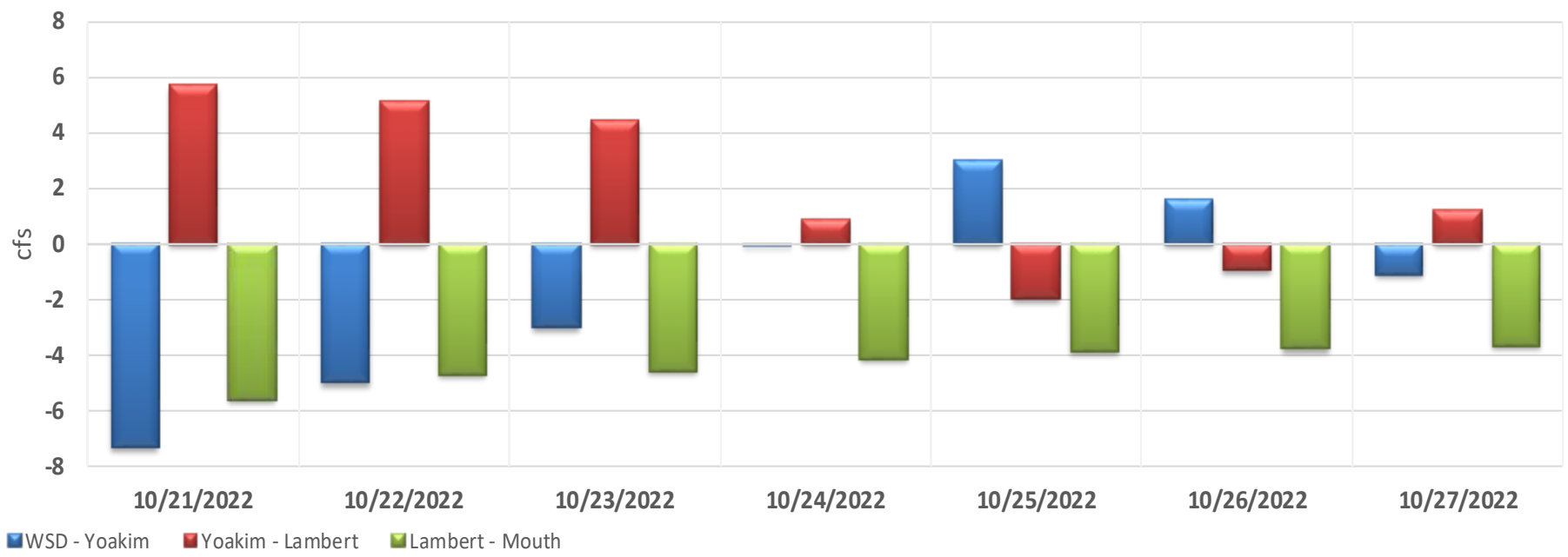




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## DRY CREEK NET REACH GAINS (+) / LOSSES (-)



## DRY CREEK STREAM FLOWS

