



State Water Resources Control Board
 Temporary Urgency Change Order (2/4/2021)
 Russian River Hydrologic Report
 February 3, 2021 - February 10, 2021

Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A (Applications 12919A).

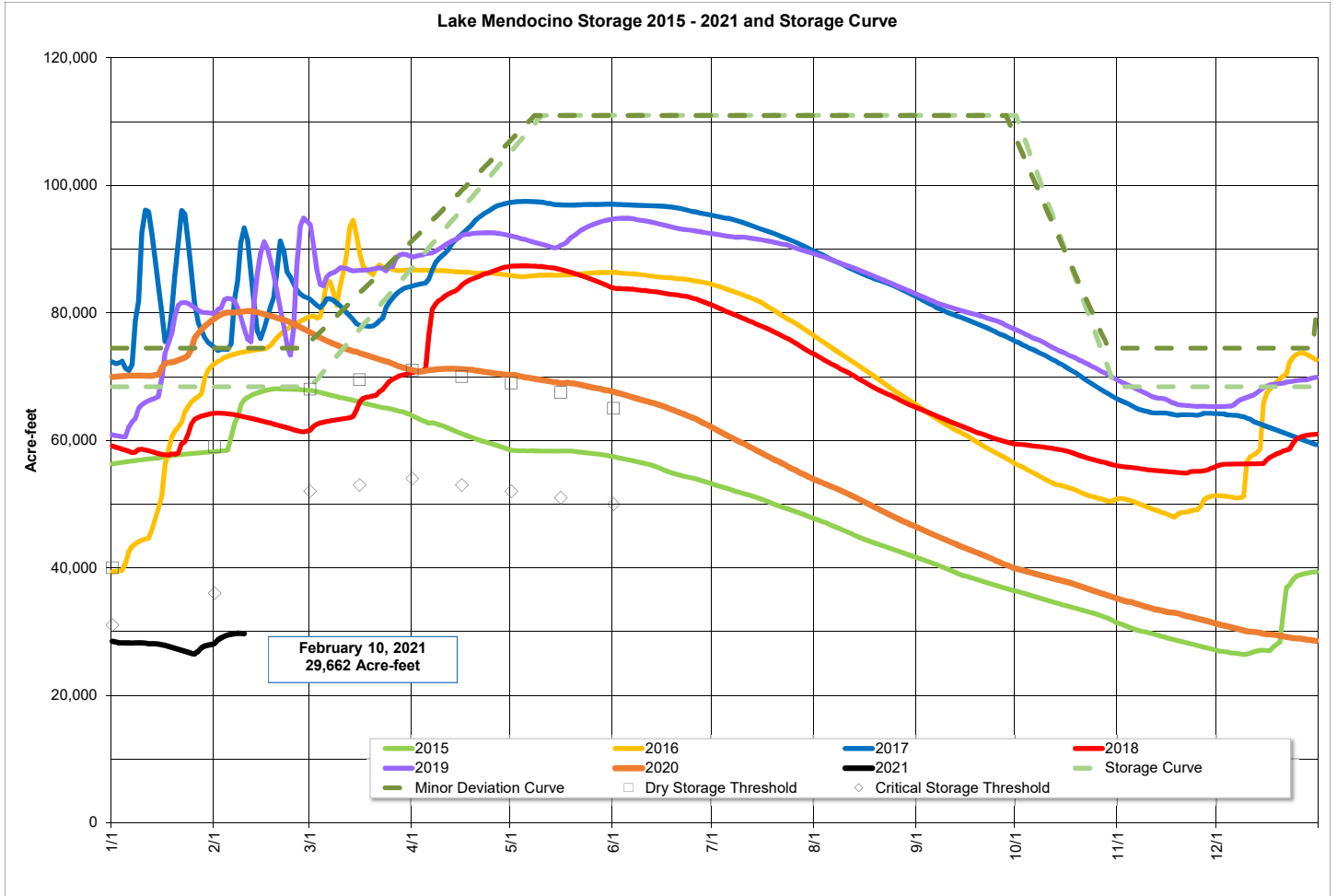
Instream Flow Requirements as of February 10, 2021

Basis	Reach	Instantaneous (cfs)
Modified Per Order: Critical Condition	Upper Russian River	25
D-1610: Dry Condition	Dry Creek	75
D-1610: Dry Condition	Lower Russian River	85

Upper Russian River based on criteria as established in the Order issued 2/4/2021 and amended 2/11/2021.

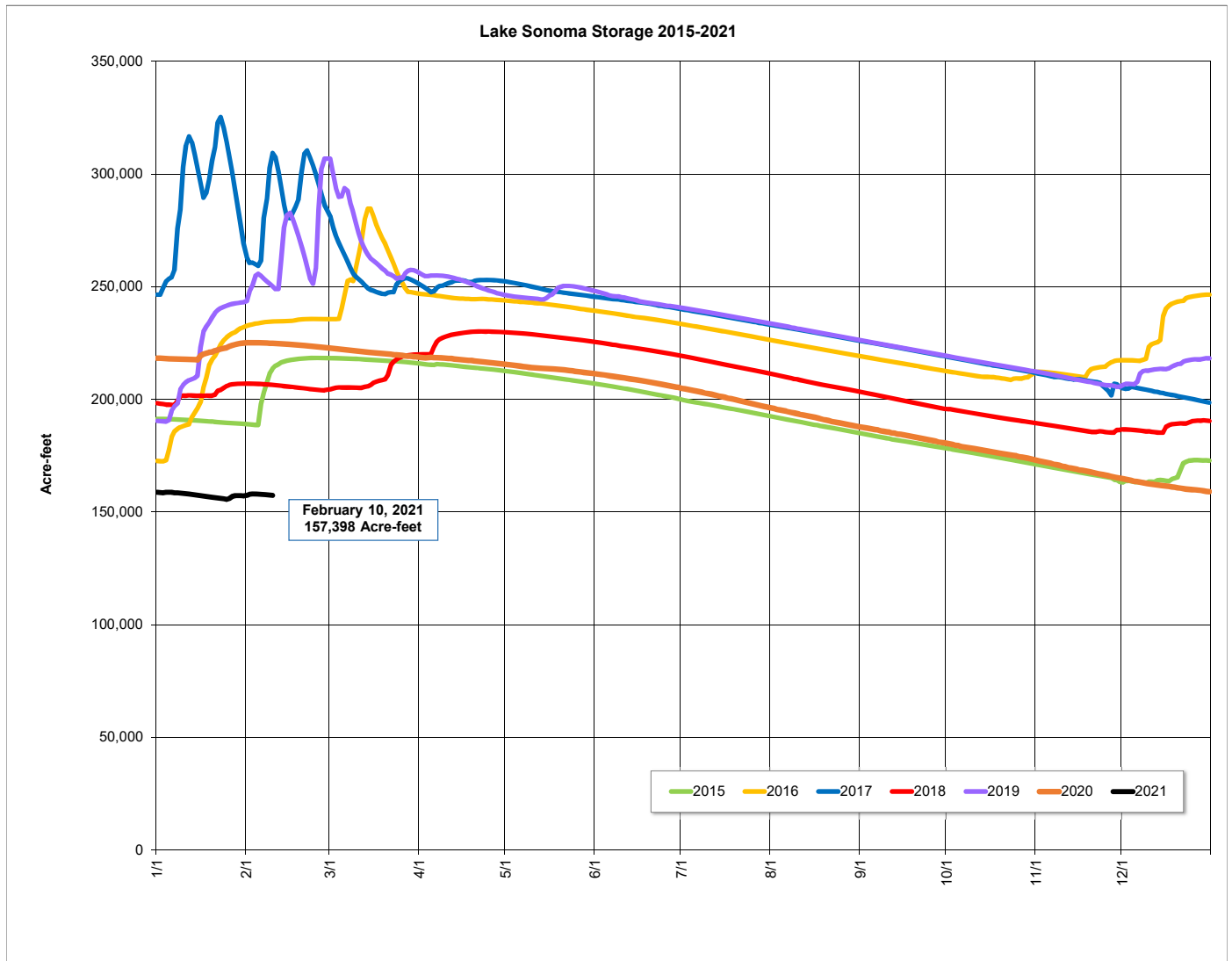
Lake Mendocino

Lake Mendocino Storage 2015 - 2021 and Storage Curve



Storage (acre-feet)	February 10, 2021	29,662	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-2,744	-91
	Last 7 days	642	92
Daily Inflow (cfs)	Last 7 days	Min	68
		Max	182
		Mean	107
Release (cfs)	Last 7 days	Min	23
		Max	97
		Mean	45

Lake Sonoma



Storage (acre-feet)	February 10, 2021	157,398	
Change in Storage (acre-feet)	Last 30 days	-3,350	Average Daily Rate
	Last 7 days	-530	-76
Daily Inflow (acre-feet)	Last 7 days	Min	75
		Max	308
		Mean	155
Release (cfs)	Last 7 days	Min	75
		Max	96
		Mean	89

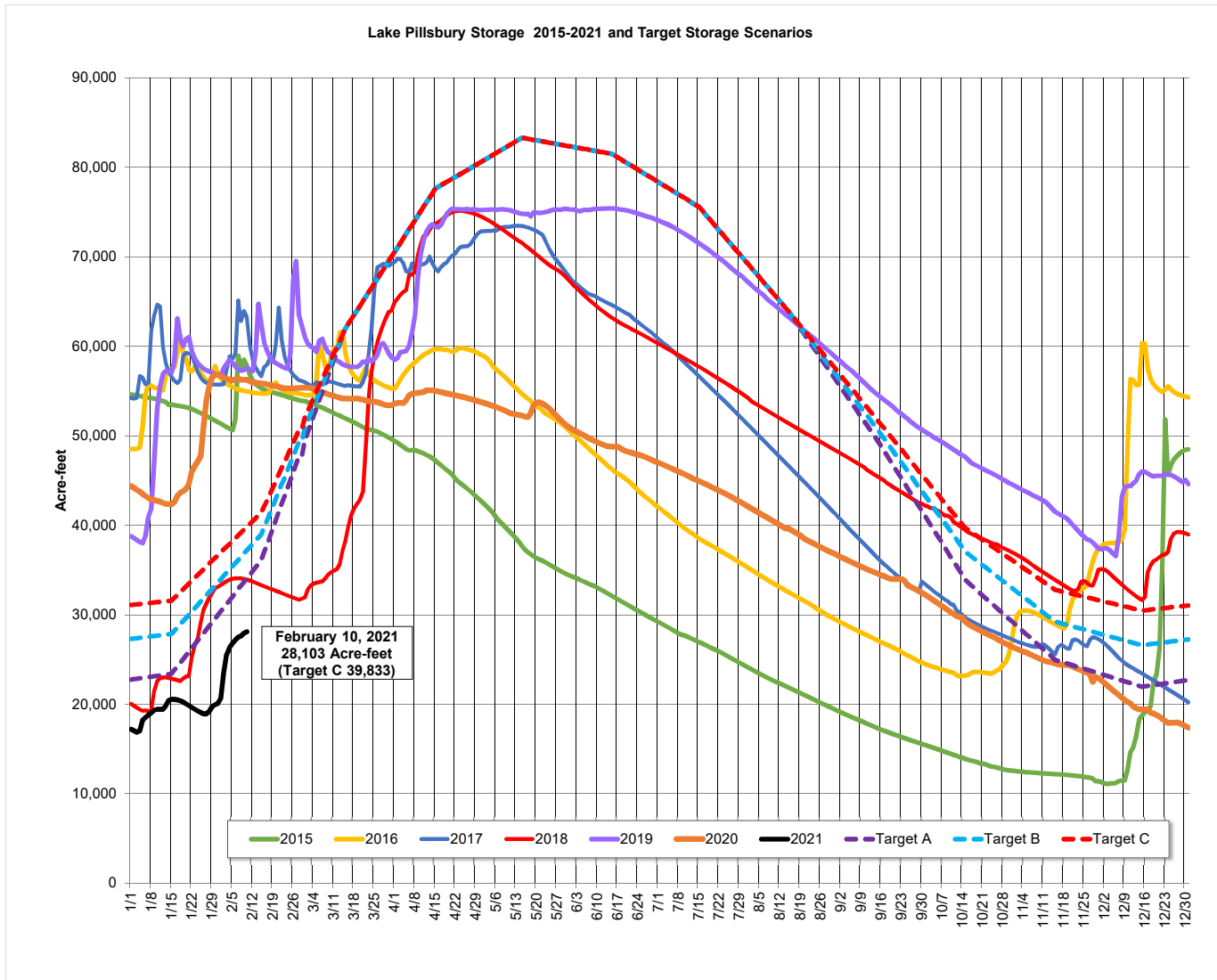
Potter Valley Project

PVP Diversion (cfs)	February 10, 2021	46
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Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2020 - February 10, 2021	35,947	272
	Last 7 days	5,416	774

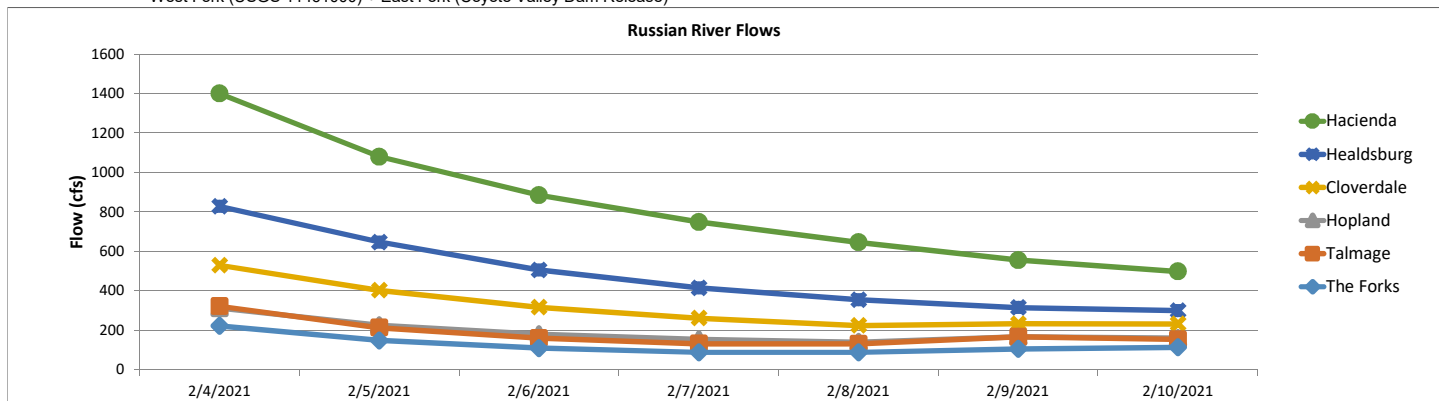
*Inflow calculation based on criteria established in D1610



Russian River Flows (February 3 - February 10, 2021)

Gage	24-hr Average Flow (cfs)						
	Feb 4, 2021	Feb 5, 2021	Feb 6, 2021	Feb 7, 2021	Feb 8, 2021	Feb 9, 2021	Feb 10, 2021
The Forks*	222	149	110	88	88	106	114
Talmage USGS 11462080	322	213	160	132	131	167	154
Hopland USGS 11462500	312	225	180	154	140	167	160
Cloverdale USGS 11463000	529	403	317	262	224	233	232
Healdsburg USGS 11464000	828	647	506	415	355	315	300
Hacienda USGS 11467000	1400	1080	884	749	646	556	498

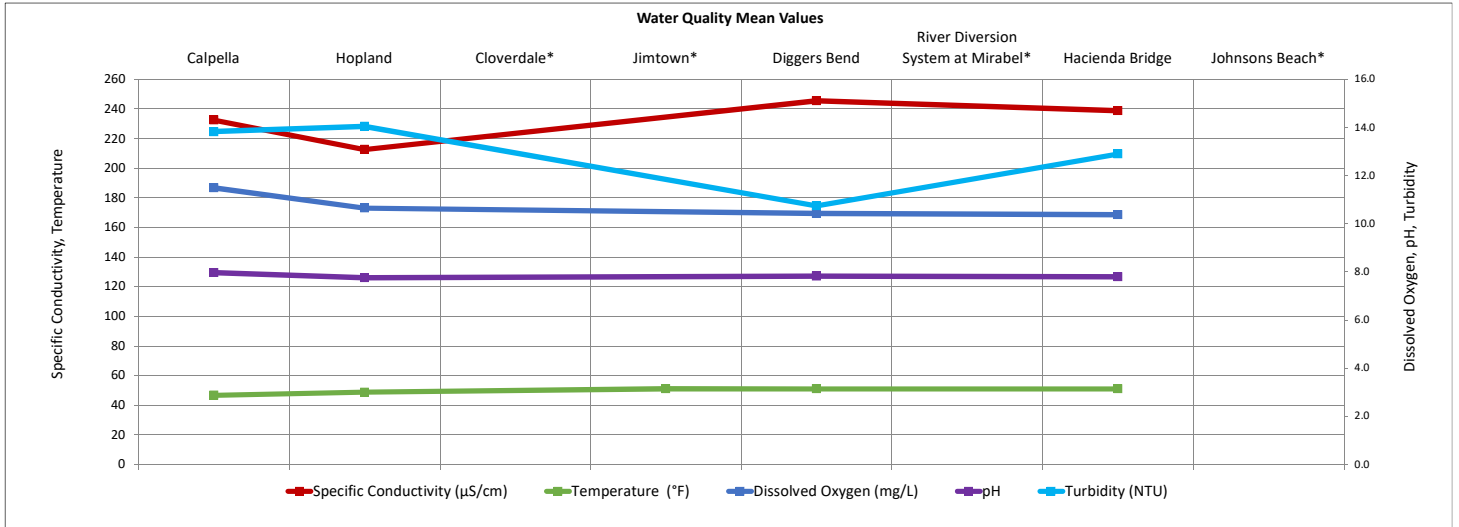
*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



Russian River Water Quality (February 3 - February 10, 2021)

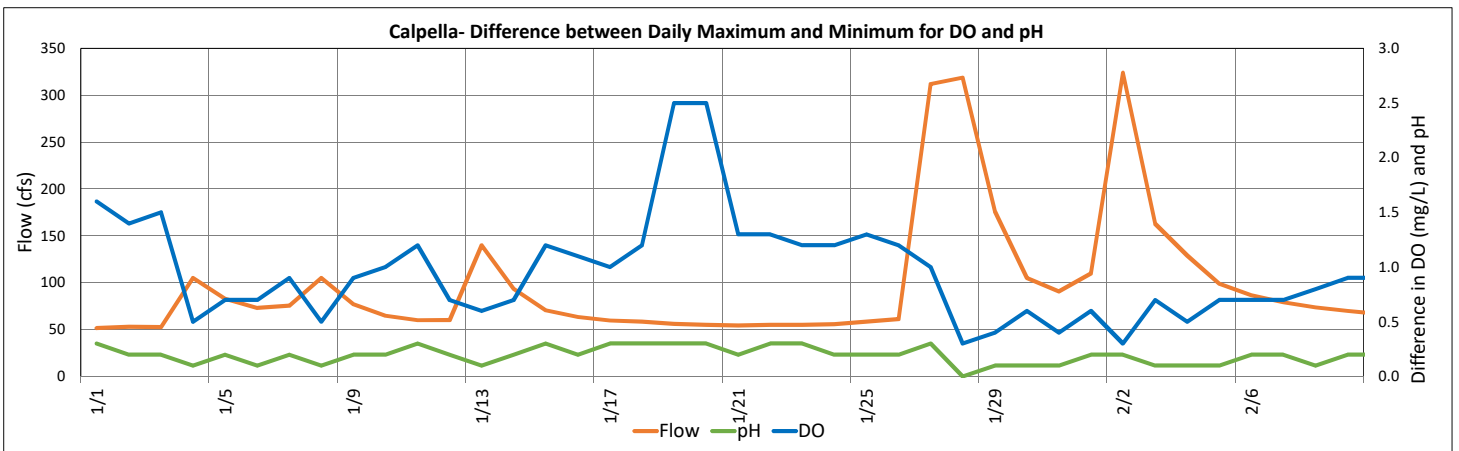
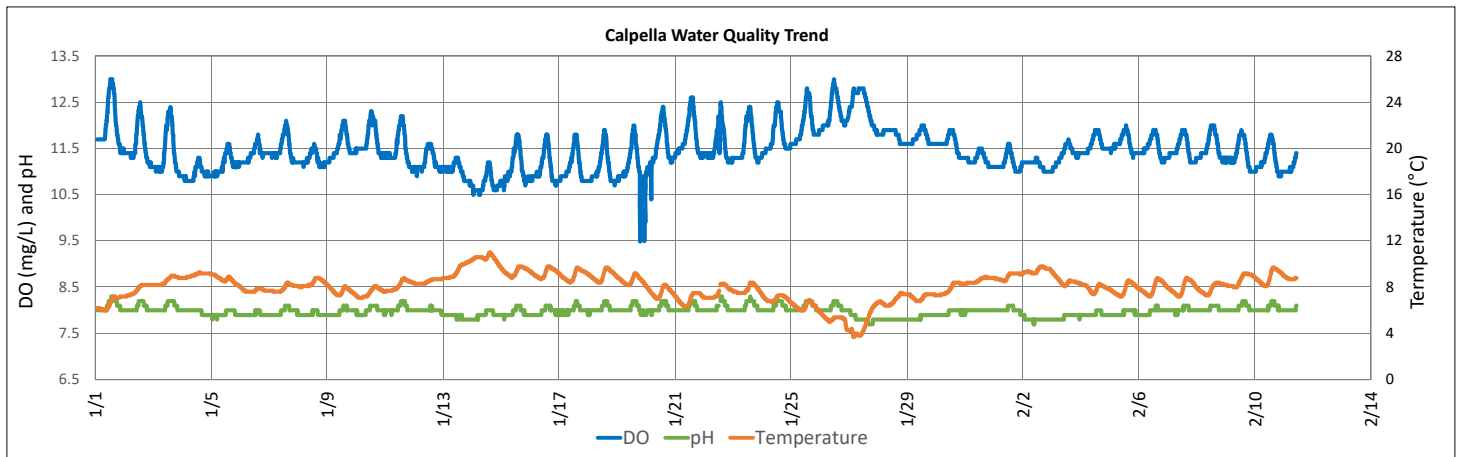
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.0	46.6			47.8		48.9	
	Max	48.9	50.9			55.0		54.0	
	Mean	46.6	48.7			51.0		50.9	
Specific Conductivity (µS/cm)	Min	192	145			176		185	
	Max	251	251			297		279	
	Mean	232	213			245		239	
Dissolved Oxygen (mg/L)	Min	11.0	10.0			9.8		10.0	
	Max	12.0	11.3			10.9		10.6	
	Mean	11.5	10.6			10.4		10.4	
Dissolved Oxygen (% Saturation)	Min	91	84			85		87	
	Max	104	100			101		98	
	Mean	97	92			92		92	
pH	Min	7.8	7.7			7.7		7.7	
	Max	8.2	7.9			8.0		7.9	
	Mean	8.0	7.8			7.8		7.8	
Turbidity (NTU)	Min	9.8	3.7			1.5		3.1	
	Max	30.9	49.7			71.4		60.2	
	Mean	13.8	14.0			10.7		12.9	

*Station operated seasonally



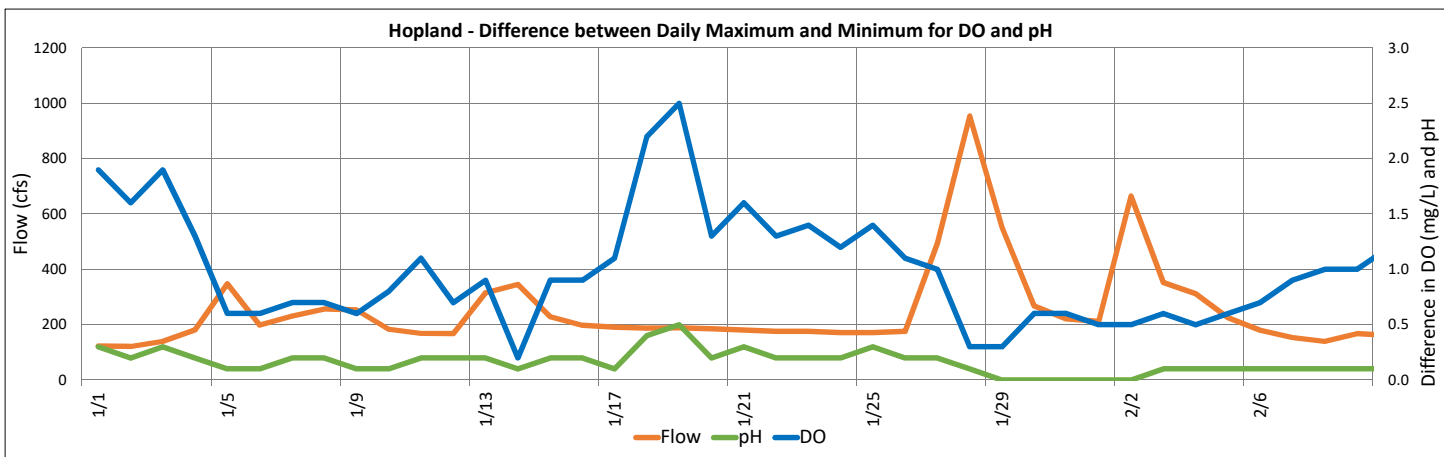
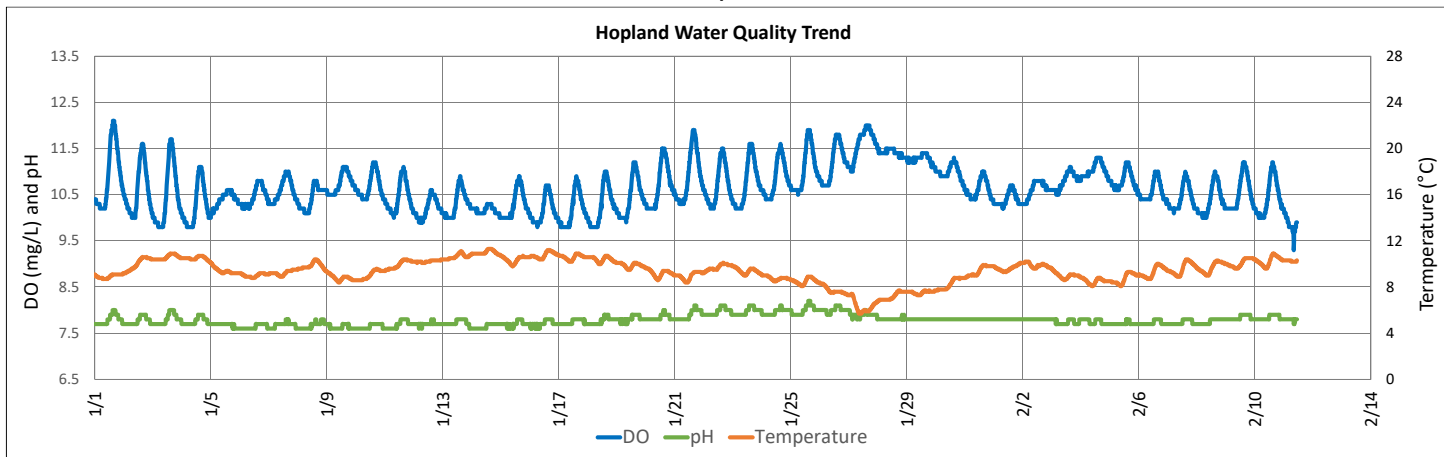
Russian River Water Quality (January 1 - February 10, 2021)

Calpella (East Fork Russian River)

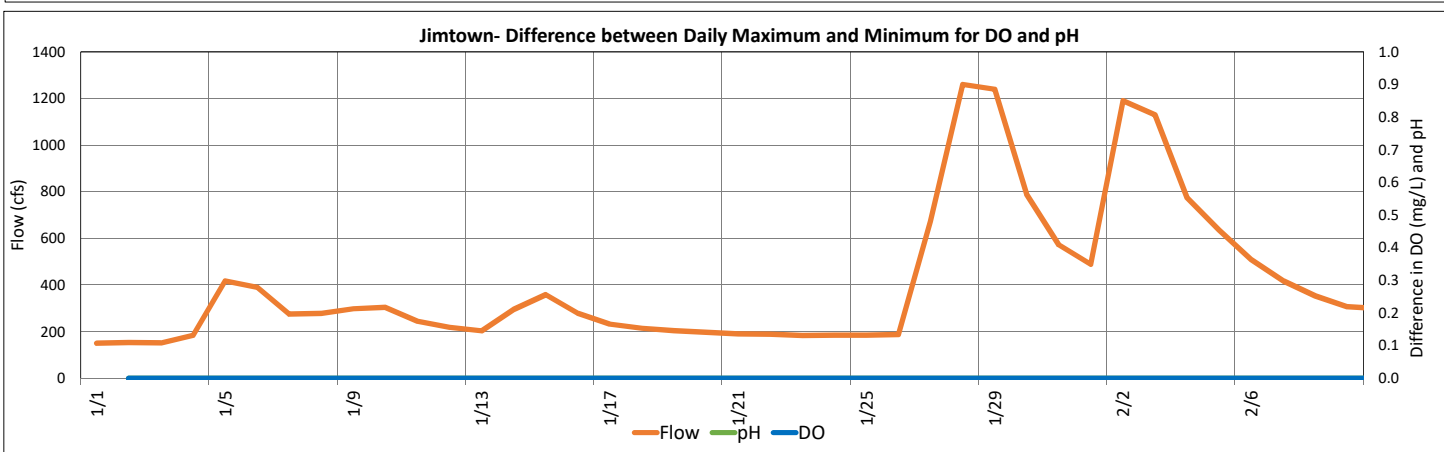
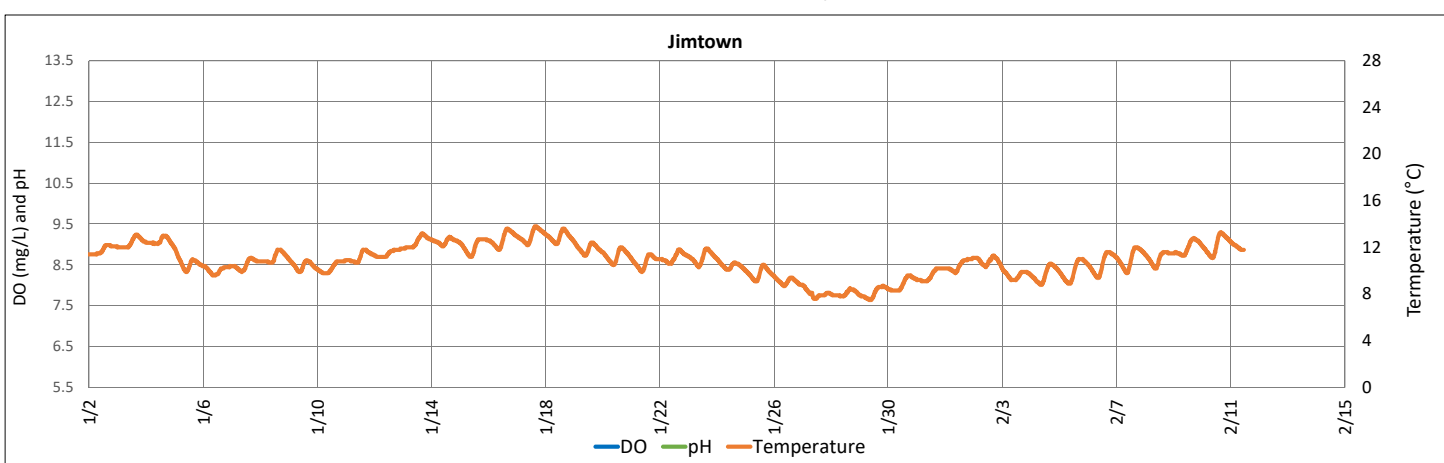


Russian River Water Quality (January 1 - February 10, 2021)

Hopland

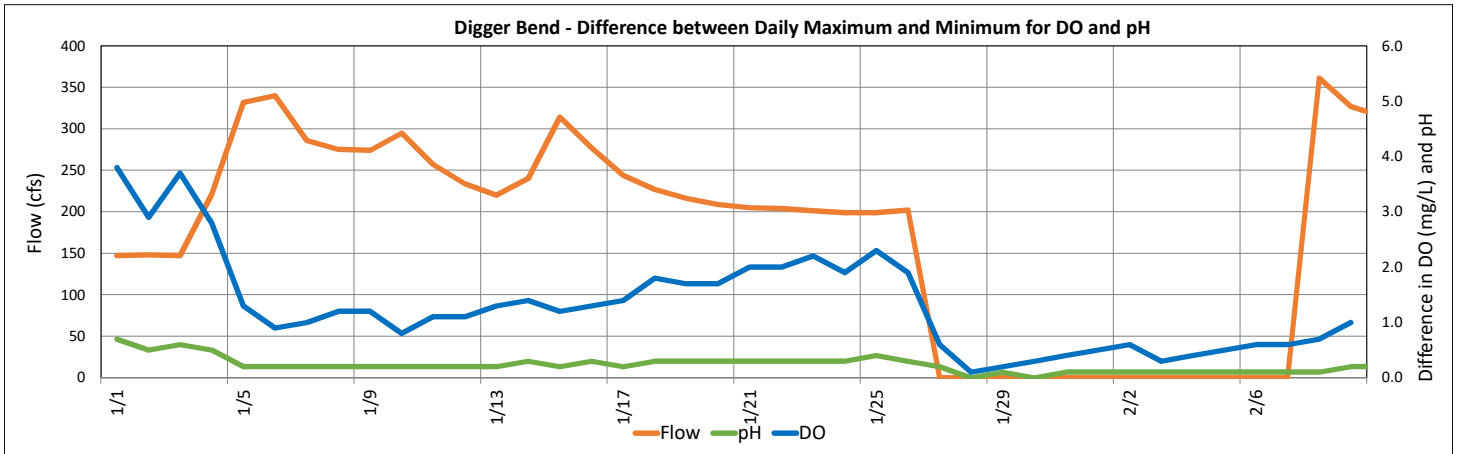
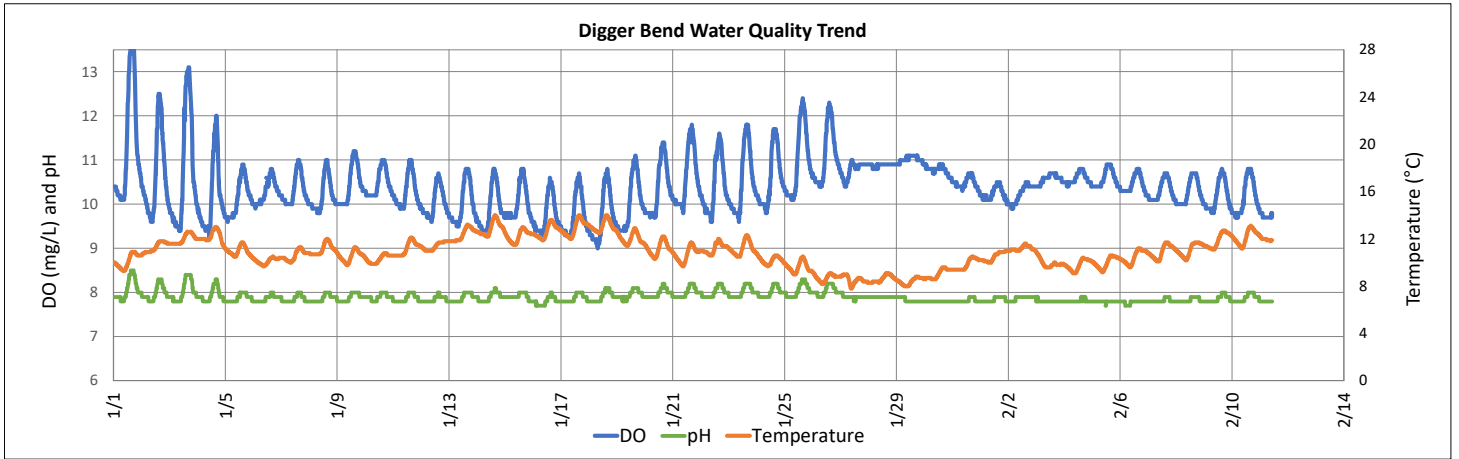


Jimtown Water Quality

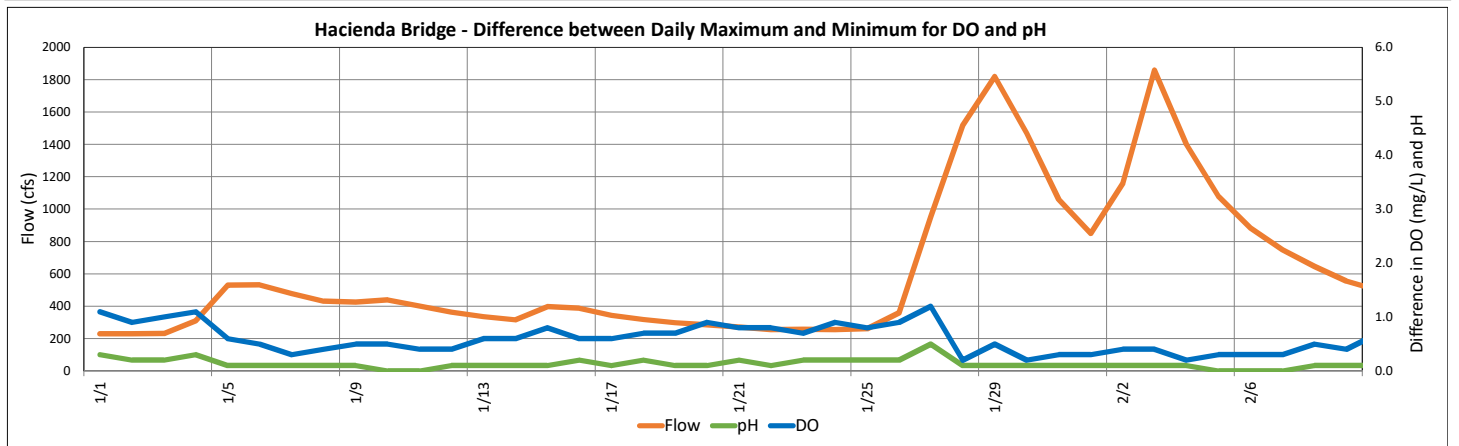
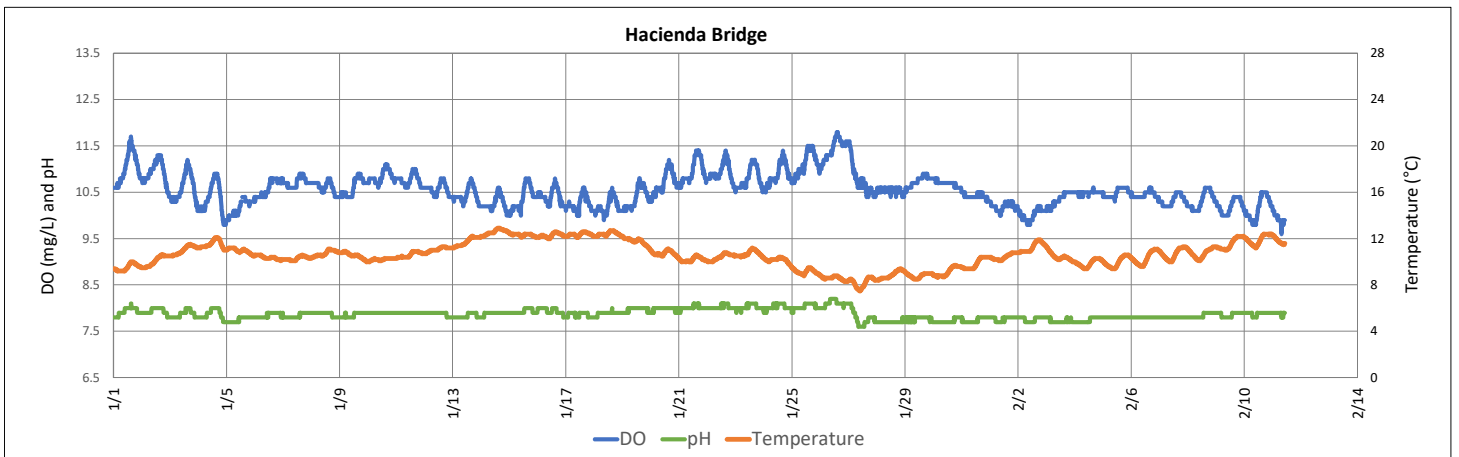


Russian River Water Quality (January 1 - February 10, 2021)

Digger Bend



Hacienda Bridge Water Quality



Russian River Fisheries Monitoring



Report on 2/10/21: Sonoma Water operates a fish counting station at a seasonal dam on the Russian River, near the town of Forestville, CA. The adult salmonid video system at the Mirabel inflatable dam was removed on 1/26/2021 due to high river flows and the need to drop the dam. For questions regarding the fish counts please contact Justin Smith at Justin.Smith@scwa.ca.gov.

Salmonid Count at Mirabel Fish Ladder

Fish Counts	Most Recent Update (12/18/2020-1/7/21)	Season Total (9/1/20-1/7/21)
Steelhead	137	174
Chinook	46	602
Coho	118	245
Unidentified Salmonid	0	27

Salmonid Redd and Spawner Survey

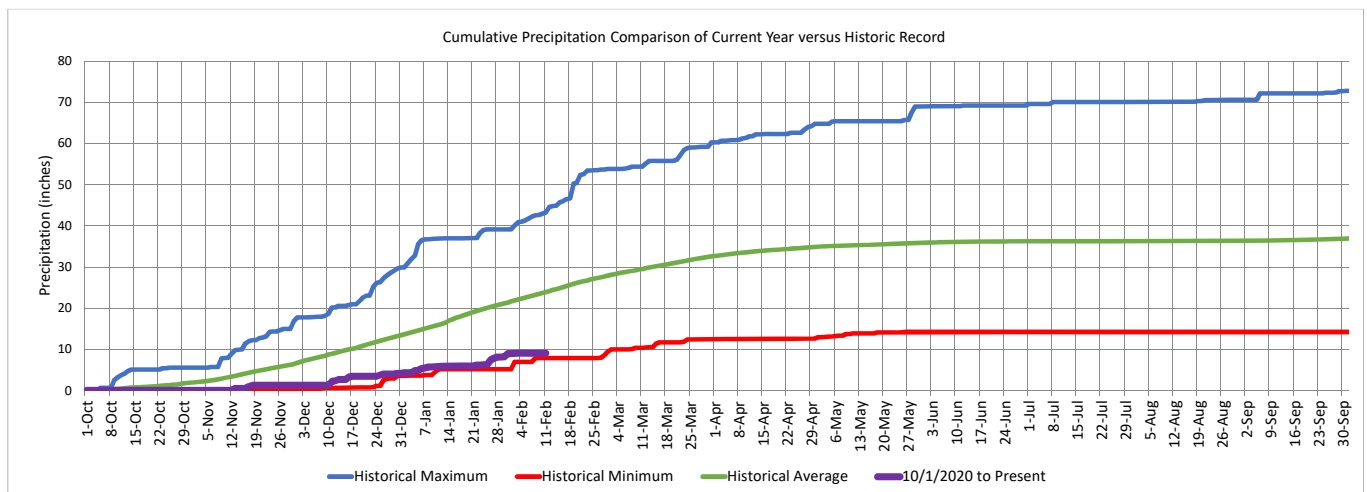
Location: Dry Creek
Date: Feb 8, 2021
Conditions: Good visibility

Spawner Survey		
Counts	Most Recent Survey	Season Survey Total
Steelhead	8	8
Chinook	0	0
Coho	0	0
Unidentified Salmonid	5	5

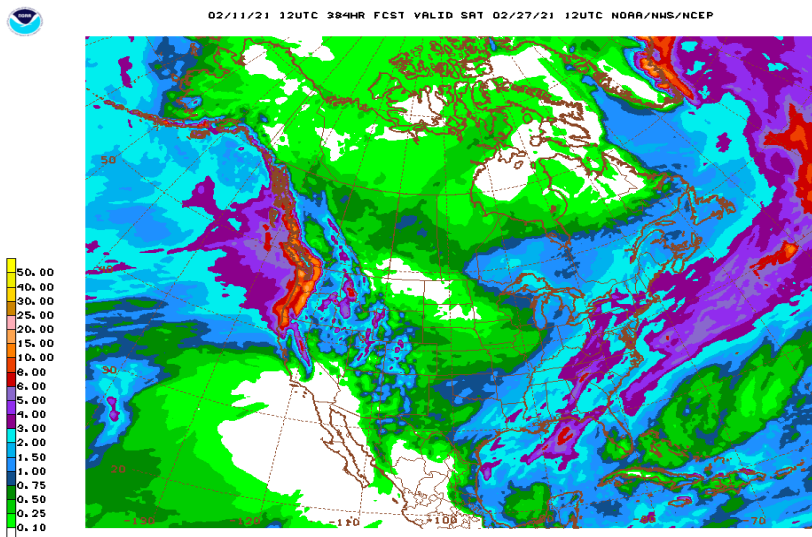
Redd Survey Count: 29

Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2020 - Feb 10, 2021	9.02
Last 7 Days*	0.00



Global Forecast System Model 16-day Cumulative Precipitation Forecast



SAT 210227/1200V384 GFS 384HR TOTAL ACCUMULATED PRECIP (IN)
 Date Range: Feb 11 - Feb 26, 2021
 Forecasted Cumulative (inches): **3.5**