

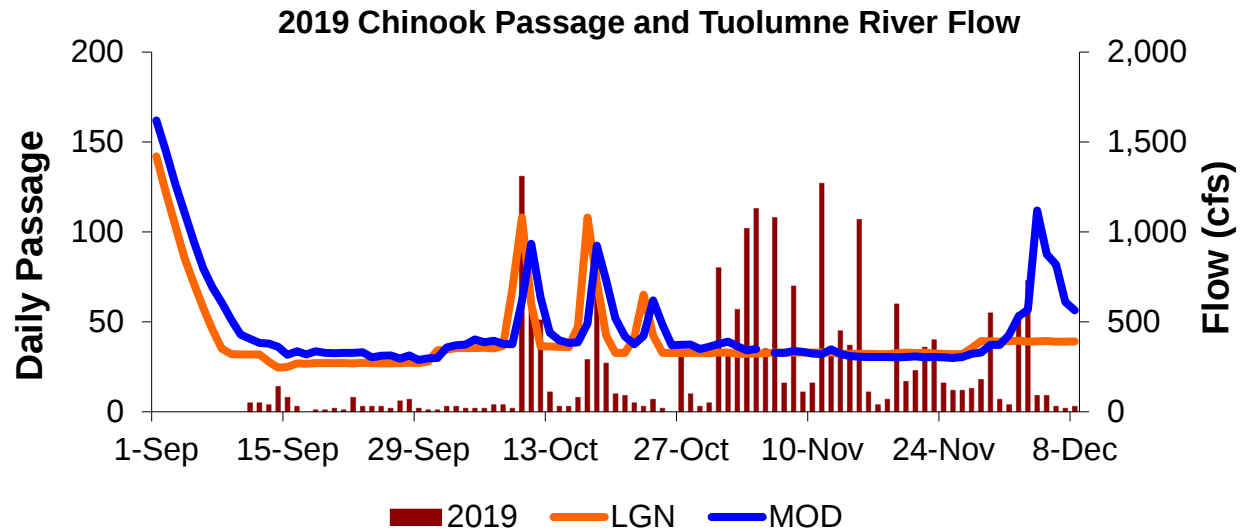


Figure 1. Daily adult Chinook salmon passage at the Tuolumne River weir and river flow at La Grange (LGN) and Modesto (MOD). Total passage as of 12/8/19 is 2,084. One resident-sized *O. mykiss* passed upstream of the weir on December 2, 2019.

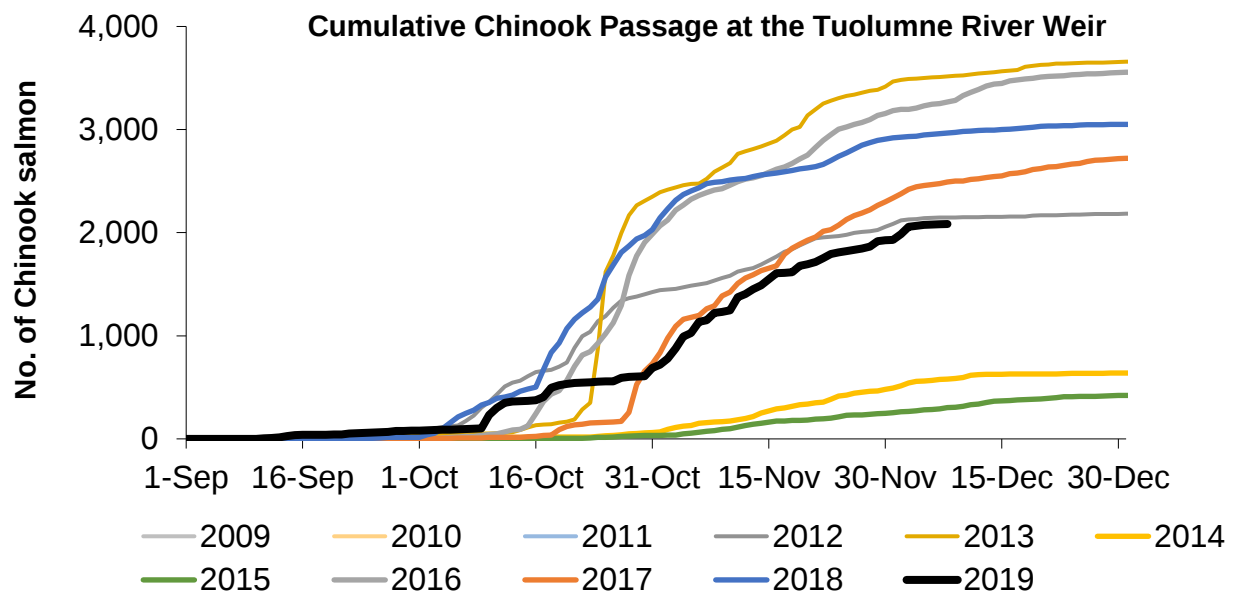


Figure 2. Cumulative adult Chinook passage at the Tuolumne River weir, 2009-2019.

Snorkel Survey Results for Chinook and *O. mykiss*

July 30 - August 1, 2019

RM	Site	Description	Juvenile Chinook (<200mm)	Juvenile <i>O. mykiss</i> (<150mm)	Adult <i>O. mykiss</i> (>150mm)
50.7	Riffle A7	below La Grange	3	36	11
49.9	Riffle 2	below NLGB	7	23	10
49.1	Riffle 3B	upper Basso	1	48	9
48.0	Riffle 5B	above Basso Bridge	28	50	16
46.9	Riffle 7	upper Zanker	10	33	3
45.6	Riffle 13B	Zanker Ranch	7	18	3
42.9	Riffle 21	Bobcat Flat	2	3	0
42.3	Riffle 23C	Tuolumne River Resort	3	5	4
38.1	Riffle 31	7/11 Gravel	5	3	6
37.0	Riffle 35A	Santa Fe Gravel	0	0	1
35.3	Riffle 41A	Dierdorff Ranch	2	5	0
31.5	Riffle 57	below Hickman Bridge	1	0	0

Totals

69

224

63

Note:

First year since 2011 where either Chinook or *O. mykiss* were seen at all sites.

Chinook at all sites except Santa Fe Gravel

O. mykiss at all sites except Hickman

DON PEDRO / TUOLUMNE RIVER WATERSHED

	12/10/2019 Tuesday	12/9/2019 Monday	12/8/2019 Sunday	12/7/2019 Saturday	12/6/2019 Friday	12/5/2019 Thursday	12/4/2019 Wednesday
* Computed Natural Flow (cfs)	595	1,580	3,472	1,564	841	895	1,423
<u>Don Pedro</u>							
Elevation (Feet) ^{^(Max = 830.0, Min = 600.0)}	795.4	795.4	795.3	795.0	794.8	794.7	794.6
Storage (AF) ^{^(Max = 2,030,000 Min=309,000)}	1,618,284	1,618,284	1,617,196	1,613,933	1,611,760	1,610,675	1,609,590
Gain/(-Loss) (AF)	0	1,088	3,263	2,173	1,085	1,085	2,168
** Avg. Inflow (cfs)	388	935	2,033	1,483	934	937	1,480
<u>Avg. Flows at La Grange</u>							
TID Canal (cfs) ^{^(Max = 2500)}	1	1	1	1	1	1	1
MID Canal (cfs) ^{^(Max = 1800)}	0	0	0	0	0	0	0
River (cfs) ^{^(Max = 9000)}	386	385	387	386	386	388	386
Total (cfs)	388	386	388	387	387	390	387
<u>Hetch Hetchy Reservoir</u>							
Elevation (Feet) ^{^(Max = 3806, Min = 3520)}	3,753.3	3,753.5	3,753.6	3,753.6	3,753.8	3,754.1	3,754.3
Storage (AF) ^{^(Max = 360,360, Min=410)}	261,855	262,205	262,380	262,380	262,730	263,256	263,608
Gain/(-Loss) (AF)	-350	-175	0	-350	-526	-352	-528
Avg. Release (cfs)	307	323	324	325	321	355	437
** Avg. Inflow (cfs)	131	235	324	149	56	178	171
<u>Cherry Valley Reservoir</u>							
Elevation (Feet) ^{^(Max = 4700 Min = 4440)}	4,670.6	4,670.5	4,670.2	4,669.3	4,669.4	4,669.5	4,669.8
Storage (AF) ^{^(Max = 270,270 Min=0)}	218,373	218,206	217,705	216,232	216,395	216,557	217,046
Gain/(-Loss) (AF)	167	501	1,473	-163	-162	-489	-325
Avg. Release (cfs)	6	7	87	331	328	339	211
** Avg. Inflow (cfs)	90	260	830	249	246	92	47
<u>Lake Eleanor Reservoir</u>							
Elevation (Feet) ^{^(Max = 4660.9 Min = 4620.9)}	4,651.0	4,650.9	4,650.4	4,649.4	4,649.2	4,649.2	4,648.9
Storage (AF) ^{^(Max = 27,016 Min=0)}	17,886	17,796	17,345	16,468	16,296	16,296	16,038
Gain/(-Loss) (AF)	90	451	877	172	0	258	0
Avg. Release (cfs)	7	8	9	7	7	7	7
** Avg. Inflow (cfs)	52	235	451	94	7	137	7
Avg. Div. to S.F. Pipeline (mgd) ^{^(Max = 300)}	165	165	165	165	165	164	242
<u>Rain Fall (Inches)</u>							
Hetch Hetchy	0.00	0.02	1.02	0.33	0.00	0.12	0.19
Cherry Valley	0.00	0.21	1.24	0.71	0.00	0.35	0.20
Moccasin	0.00	0.02	0.39	0.34	0.00	0.33	0.30
Sonora	0.00	0.02	0.83	0.28	0.00	0.59	0.25
Yosemite	0.00	0.21	1.08	0.27	0.00	0.17	0.10
Don Pedro	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* Computed Natural Flow is a calculated value representing what the flow in the river at La Grange would be without human diversion, storage, or release. Due to the nature of the calculation, this value may be negative.

** Inflow is a calculated value representing the flow of water into a reservoir. Inflow to a reservoir is not necessarily equal to the Computed Natural Flow. Due to the nature of the calculation, this value may be negative.

Note: cfs is a rate of flow in **cubic feet per second**; a flow of 1 cfs over a 24-hour period (cfs/day) $\approx$ 1.98 **acre-feet (AF)**; mgd is a rate of flow in **million gallons per day** (megagallons per day); a flow rate of 1 mgd $\approx$ 1.55 cfs; a flow of 1 mgd over a 24-hour period $\approx$ 3.1 AF.

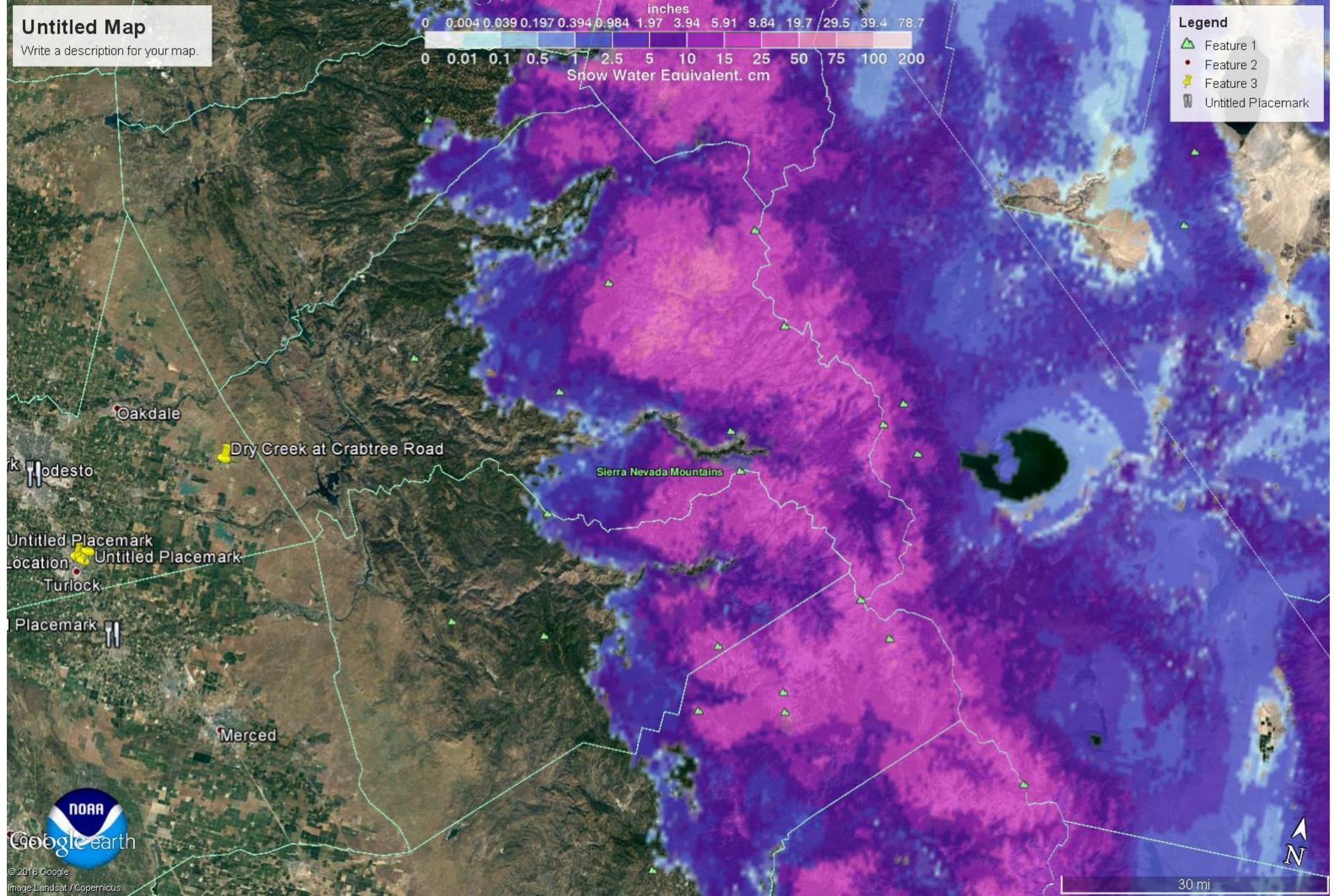
Untitled Map

Write a description for your map.



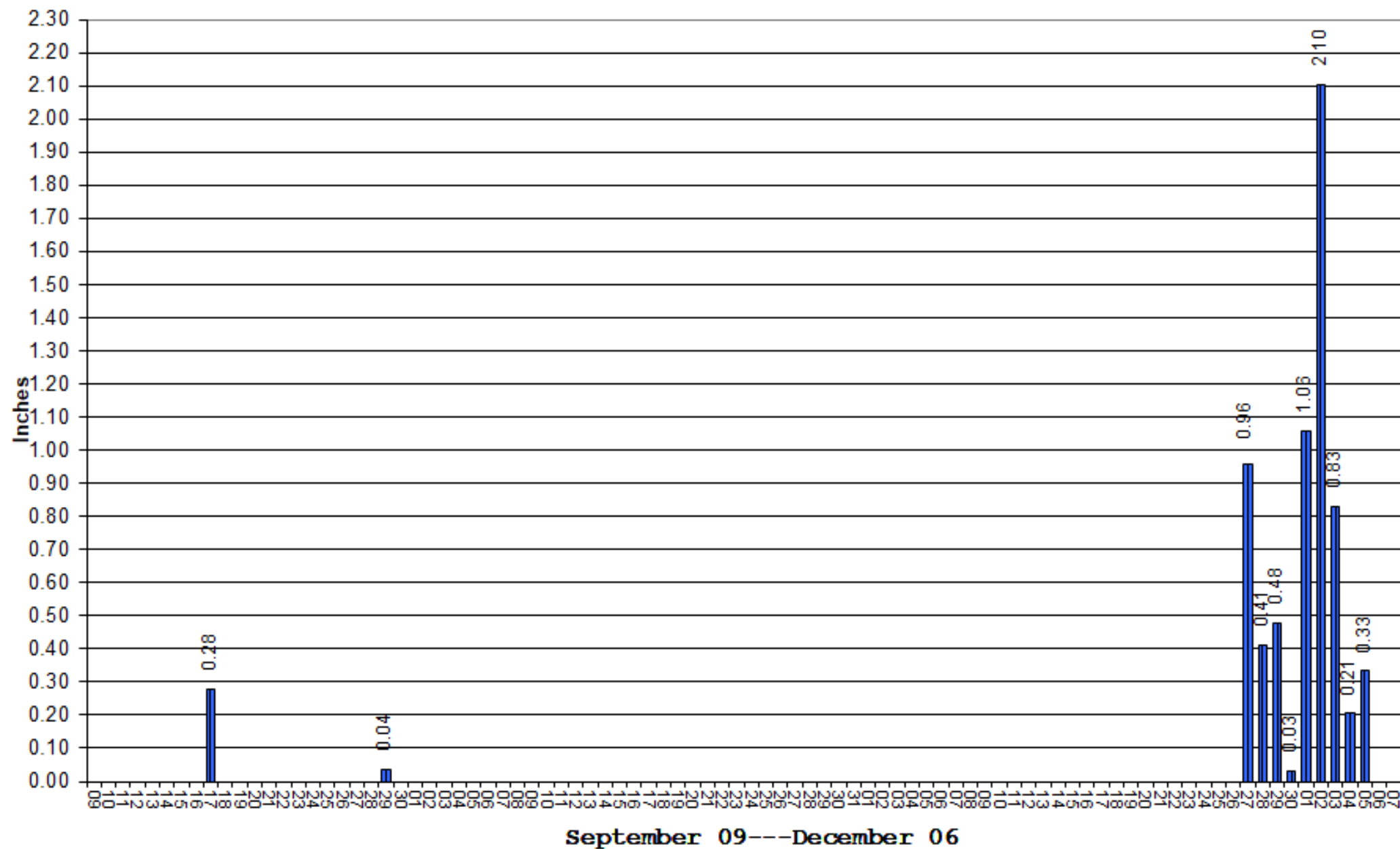
Legend

- Feature 1
- Feature 2
- Feature 3
- Untitled Placemark



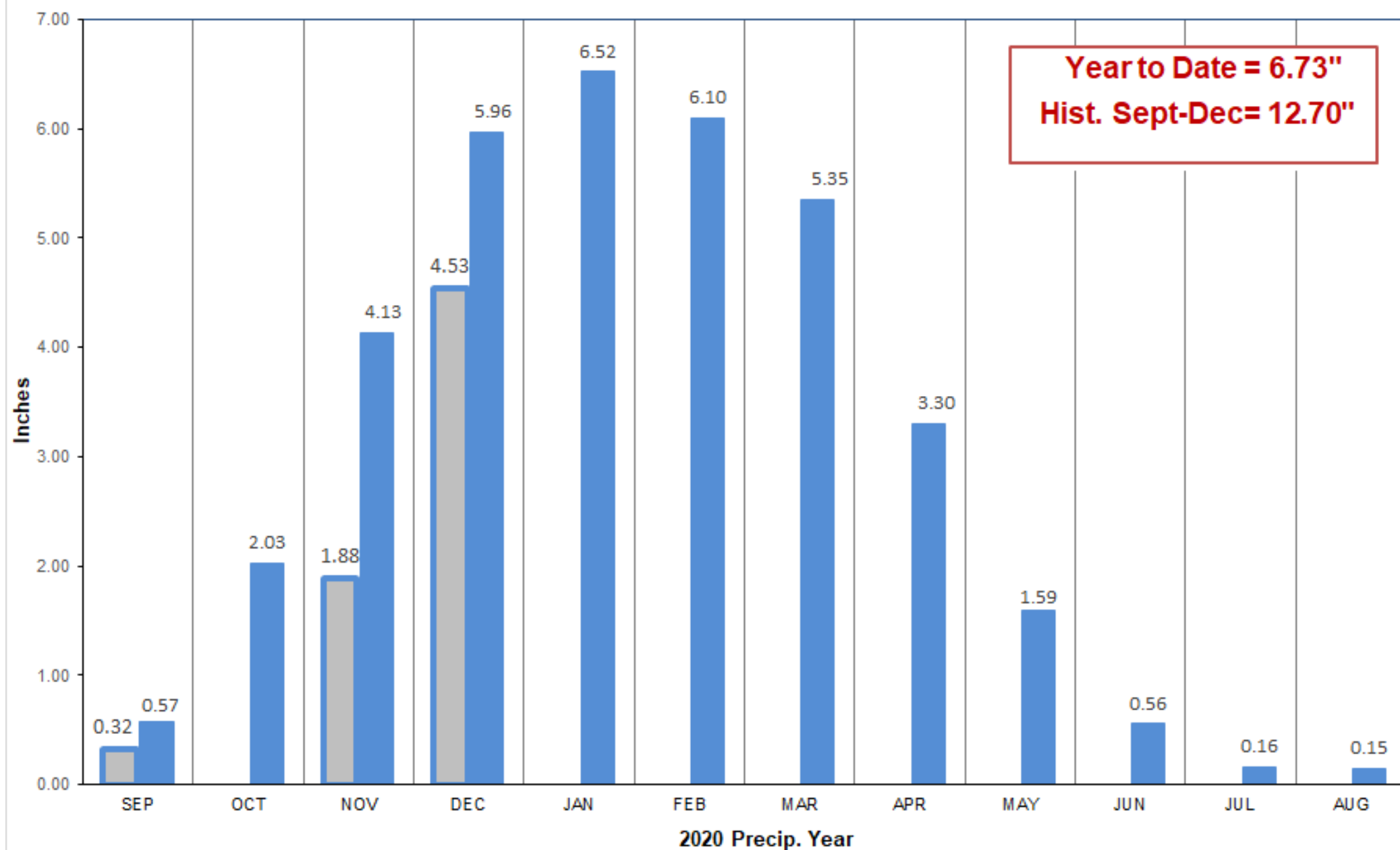
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Watershed Daily Precipitation



Tuolumne River Watershed Monthly Accumulation of Precipitation

2019-2020 AVERAGE



Tuolumne River Watershed Accumulated Precipitation

