

SECCHI DISC MONITORING RESULTS 2017 SECCHI DISC MONITORING RESULTS



LODI, CA, JULY 19, 2017: On Friday, July 7, 2017, just after noon, Lodi students measured the water clarity of Lodi Lake and the Mokelumne River with a Secchi Disk and added their findings to 2017 Annual Secchi Dip-In, a volunteer waterbody monitoring event.

MEASURING WATER CLARITY: Each July since 2001, the City of Lodi has worked with volunteers to measure Lodi Lake and the nearby Mokelumne River's water clarity, using a Secchi Disc. Three sites were chosen: Two in Lodi Lake and one in the Mokelumne River, just above Woodbridge Dam.

2017 FINDINGS: This year there has been an improvement over last year's results. Water released from Camanche Reservoir greatly affects the flows and turbidity, or water clarity, of the Lower Mokelumne River. The 2017-2018 winter rains increased flows to up to 5,000 cfs, resulting in increased turbidity and sediment loads, which created muddy, swift water. As flows slowed in late June, the sediment load dropped out and settled, improving water clarity.

See the City of Lodi's Storm Drain Detective monthly data to learn more about the Mokelumne River's water quality and the impacts of local runoff.
http://www.lodi.gov/Storm_Drain_Detectives/monthly_data.html.

City of Lodi, Dept. of Public Works
 Secchi Disc "Dip-in" Sampling, Lodi, California
 Transparency:

| Date | Time | #1 Lodi Lake Approx. water depth- 8.3' (Long: 121°17' 30" Lat. 38° 9' 21 ") (North of Boat House, Mid-Lake) | | #2 Lodi Lake Approx. water depth- 8.1' (East End/ Center of Lake) | | #3 Mokelumne River Approx. water depth- 18' (Main Channel, 500 yds. Upstream of W/D dam) | | | |
|-----------|-------|--|---------------|---|---------------|---|---------------|--------|------|
| | | Depth meters | Depth Feet | Depth meters | Depth Feet | Depth meters | Depth Feet | | |
| 11-Jul-01 | 13:50 | 1.50 M | 4.9 | 14:10 | 1.50 M | 4.9 | 13:55 | 3.00 M | 9.8 |
| 11-Jul-02 | 15:00 | 2.00 M | 6.6 | 15:00 | 1.95 M | 6.4 | 15:00 | 2.60 M | 8.5 |
| 11-Jul-03 | 11:00 | 2.40 M | 7.9 | 11:15 | 2.15 M | 7.1 | 10:45 | 2.85 M | 9.3 |
| 9-Jul-04 | 11:30 | 2.40 M | 7.9 | 11:20 | 1.85 M | 6.1 | 11:42 | 2.80 M | 9.2 |
| 8-Jul-05 | 12:25 | 1.95 M | 6.4 | 12:40 | 2.00 M | 6.6 | 12:24 | 3.25 M | 10.6 |
| 14-Jul-06 | 11:45 | 2.05 M | 6.7 | 11:50 | 2.20 M | 7.2 | 11:35 | 2.50 M | 8.2 |
| 13-Jul-07 | 11:35 | 1.50 M | 4.9 | 11:40 | 1.50 M | 4.9 | 11:20 | 3.90 M | 12.8 |
| 17-Jul-08 | 12:25 | 2.20 M | 7.2 | 12:30 | 1.95 M | 6.4 | 13:00 | 3.85 M | 12.6 |
| 24-Jul-09 | 13:35 | 2.05 M | 6.7 | 13:44 | 1.80 M | 5.9 | 13:00 | 3.30 M | 10.9 |
| 15-Jul-10 | 11:20 | 2.60 M | 8.5 | 11:35 | 1.90 M | 6.2 | 12:00 | 2.60 M | 8.5 |
| 15-Jul-11 | 12:05 | 2.00 M | 6.5 | 12:15 | 1.80 M | 6.0 | 12:25 | 2.50 M | 8.2 |
| 14-Jul-12 | 12:05 | 1.51 M | 5.0 | 11:55 | 1.38 M | 4.5 | 12:20 | 3.49 M | 11.4 |
| 19-Jul-13 | 12:09 | 1.50 M | 4.9 | 12:25 | 1.55 M | 5.1 | 12:42 | 3.00 M | 9.8 |
| 3-Jul-14 | 11:30 | 1.65 M | 5.4 | 11:20 | 1.60 M | 5.2 | 11:40 | 2.15 M | 7.1 |
| 13-Jul-15 | 11:45 | 1.30 M | 4.3 | 11:59 | 1.60 M | 5.2 | 12:10 | 2.50 M | 8.2 |
| 14-Jul-16 | 13:15 | 1.98 M | 4.8 | 13:15 | 1.70 M | 3.9 | 13:00 | 2.30 M | 5.6 |
| 7-Jul-17 | 13:25 | 2.00 M | 6.6 | 13:37 | 1.50 M | 4.9 | 13:05 | 2.50 M | 8.2 |

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