CyAN Update (2021-04-01 - 2021-06-27) for Western Region

Report Date: 2021-06-28

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Hello all,

Below is the statewide update for satellite imagery of cyanobacteria in Western Region waterbodies.

Please note in the report that:

* The 7-Day Average Daily Maximum is now used for summarizing the cyanobacterial cell counts.
* The table includes all waterbodies with 7-Day Average Daily Maximum of cell counts above WHO thresholds (100,000 cells/mL) in the last 7 days.
* The time series plots include all resolvable waterbodies identified from EPA’s CyAN project. The plots report both the daily average and daily maximum cell counts from April 1st through the present.
* All data presented in this report are provisional and subject to change. We suggest examining additional imagery from Sentinel 2 (<https://www.sentinel-hub.com/explore/sentinelplayground/>) or following up with site visits if necessary.

Cheers!

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Attn: Bill Meyers, Bryan Duggan, David Waltz, Heather Tugaw, Nancy Gramlich, and Priscilla Woolverton

Waterbodies ranked by the 7-Day Average Daily Maximum of cyanobacteria abundance (cells/mL) that are above the WHO guideline (100,000 cells/mL) for cyanobacteria in recreational freshwater during the 7 days from 2021-06-20 to 2021-06-27. The basin names are shown in the table. The waterbodies, which 7-Day Average Daily Maximum of cyanobacteria abundance are less than 6310 cells/mL (the satellite detection threshold value), are not included in the table.

|  |  |  |
| --- | --- | --- |
| Waterbody\_GNISID | Basin | Average 7 Daily Maximum (cells/mL) |
| Diamond Lake\_01140999 | Southern Oregon Coastal | 271,708 |

Figures: Time series plots of daily maximums and daily means of cyanobacteria abundance (cells/mL) of the waterbodies during 2021-04-01 and 2021-06-27 in the Western Region.





















