CyAN Update (2021-04-01 - 2021-06-21)

Report Date: 2021-06-23

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**TO:**

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Hello all,

Below is the statewide update for satellite imagery of cyanobacteria in Oregon 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!

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 2021-06-14 to 2021-06-21. The basin names are shown in the table.

| Waterbody\_GNISID | Basin | 7-Day Average Daily Maximum (cells/mL) |
| --- | --- | --- |
| Upper Klamath Lake\_01151685 | Klamath | 2,731,124 |
| Davis Lake\_01140666 | Deschutes | 1,537,193 |
| Summer Lake\_01150595 | Oregon Closed Basins | 1,310,069 |
| Sturgeon Lake\_01127681 | Lower Willamette | 883,610 |
| Beulah Reservoir\_01117569 | Middle Snake-Boise | 653,659 |
| Crane Prairie Reservoir\_01140386 | Deschutes | 652,080 |
| Malheur Lake\_01123710 | Oregon Closed Basins | 547,706 |
| Crump Lake\_01119601 | Oregon Closed Basins | 543,165 |
| Hart Lake\_01121637 | Oregon Closed Basins | 531,108 |
| Fern Ridge Lake\_01120678 | Upper Willamette | 403,805 |
| Lake Billy Chinook\_01138120 | Deschutes | 329,029 |
| Wickiup Reservoir\_01161711 | Deschutes | 324,081 |
| Swamp Lake\_01127802 | Oregon Closed Basins | 300,095 |
| Warm Springs Reservoir\_01128656 | Middle Snake-Boise | 274,523 |
| Gerber Reservoir\_01121105 | Klamath | 254,162 |
| Diamond Lake\_01140999 | Southern Oregon Coastal | 248,898 |
| Lake Abert\_01116755 | Oregon Closed Basins | 245,832 |
| Drews Reservoir\_01141243 | Upper Sacramento | 191,665 |

Figures: Time series plots of daily maximums and daily means of cyanobacteria abundance (cells/mL) of the waterbodies during 2021-04-01 and 2021-06-21.



















































































