Statewide Perspectives, Strategies & Actions

WILLAMETTE HABs and DRINKING WATER SOURCES WORKSHOP

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FERN RIDGE RESERVOIR 2020
Bloom Formation and Persistence

Many Contributing Factors

- Agricultural Runoff
- Residential Runoff
- Wastewater
- Urban Runoff
- Leaking Septics
- Low Flow-No Mixing-Warm Water
- CyanoHAB
- Global Warming
- Sunlight
Perspectives, Data, Trends, and More

Number of advisories

- Averted advisories
- Cell count based advisories
- Toxin based advisories

Temperature above normal:
- +2°: 4.07”
- +4.7°: 2.41”
- +1.5°: 4.33”
- +2.2°: 9.31”
- +3.2°: 5.74”
- +1.2°: 4.32”
- +2.5°: 2.70”

Spring rain totals (Normal = 5.10”):
- 2021 spring rainfall: -1.64”
Strategies for Addressing/Preventing Blooms

Recreational use advisory issued for Odell Lake
July 22, 2020

The Oregon Health Authority (OHA) issued a recreational use advisory today for Odell Lake due to the presence of harmful algal blooms (HABs) that can produce cyanotoxins. HABs pose health risks to humans and animals. The advisory, which becomes available OHA will determine whether to lift the advisory when conditions improve.

A sample was collected, and the analysis of harmful algal blooms (HABs) became available for the bloom in the lake. The advisory remains in place until a bloom of cyanotoxins can be identified. Although toxins are not present in the lake, the risk to people who have skin sensitivities may experience skin irritation.

People are encouraged to visit Odell Lake and engage in water activities such as swimming, boating, and fishing. The advisory remains in place until the bloom can be confirmed.

Drinking water
Drinking water directly from areas of the lake or water that are not designated as a drinking water source is dangerous. Toxins cannot be removed by boiling water or using treatment following camping style filters. Contact campground management for more information.

HARMFUL ALGAE BLOOMS IN OREGON WATERS

What is this stuff?
Harmful algae blooms (HABs) are not all of them. They’re actually made of cyanobacteria, also called blue-green algae. Many cyanobacteria species create toxins that can make people and pets sick.

So, what’s the problem? HABs can...

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Cyanotoxin management and human health risk mitigation in recreational waters

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Prevention, control and mitigation of harmful algal blooms: multiple approaches to HAB management

January 2004
Donald M. Anderson