Washington state: Just say 'no' to going in slimy water

State has record number of water-body closures

By NATALIE ST. JOHN EO Media Group

LONG BEACH, Wash. Everything's coming up

The Washington State Department of Ecology is warning citizens to steer clear of the harmful, sometimes toxic algal blooms that have proliferated during this unusually warm, dry summer.

"The big public message is, if people see this green slimy water, just stay out of it. We've had a few dogs that have died this year from drinking it. It's just bad stuff," said Sandy Howard, a Department of Ecology spokeswom-

According to a press release, "Lakes, rivers and the Puget Sound are experiencing more intense and widespread algae blooms this summer and scientists believe warm water due to the state's drought is partly to blame.

Pseudo-nitzchia, a saltwater algae species that produces the neurotoxin domoic acid, has already caused widespread closures of razor clam and Dungeness crab fisheries.

'Big bathtub' full of slime

Fresh-water blue-green algae, or cyanobacteria, sometimes produce toxins that can sicken or even kill people and animals, and small children and the elderly are especially vulnerable, according to the press release.

Across the state, nine lakes in Douglas, Jefferson, King, Pierce, and Island counties have known toxic algae blooms. But the the state doesn't regularly test most smaller bodies of water, so there could certainly be other toxic blooms that haven't been identified yet.

A map on the Department of Ecology's freshwater monitoring page shows that only two freshwater bodies in Pacific County have been monitored in recent history. The Chinook reservoir is in great

shape. "Fake Lake," near Westport, has had algae problems in the past, but hasn't been tested since 2009.

Howard explained that much of the monitoring is driven by citizen reports, so it's helpful for citizens to alert the state if they see a bloom.

Even non-toxic species can cause a lot of trouble when they get out-of-hand. As the blooms grow, they suck up nutrients in the water, and then begin to die off. As they decay, they stink, and create organic compounds that strip the water of oxygen. That can prompt further die-off of algae and marine life, leading to even smellier, slimier con-

Algal blooms are "a really big issue," this year, said Jessica Payne, another Department of Ecology spokeswoman. "We've had more closures than ever before, and in areas that haven't been closed before.'

Waters in the Puget Sound "are 3 or 4 degrees warmer

-Pendleton

than they should be for this year," and researchers have observed lower oxygen content in the water, and "massive amounts of jellyfish" that wouldn't typically be present. Payne likens the state of the sound to "a big bath tub.

Payne noted that this year's unusual conditions could provide a glimpse of what the future might hold, if climate change causes coastal waters to heat up permanently.

Bloom that wouldn't fade

In saltwater, millions of tiny plant and animal-like organisms can form massive colonies in the spring and summer, when sun-warmed water near the surface is rich with nutrients. The blooms come in a wide variety of colors, "ranging from green to red, orange yellow or brown," according to the Department of Ecology.

Some types, like the tomato-soup-colored noctiluca, look bad but don't pose a threat to humans. But a few saltwater varieties can make people ill if they inhale them, swallow contaminated water, or eat shellfish that have fed on the algae — and it might not be obvious that the toxins are present.

Jerry Borchert, who oversees monitoring programs at the state Department of Health, said there are three types of algae-produced toxins that could potentially turn up in the Willapa Bay. The state refers to these as "amnesic shellfish poison," "paralytic shellfish poison" and 'diuretic shellfish poison."

'The only one we're seeing is amnesic shellfish poison," or domoic acid, Borchert said.

pseudo-nitz-Recently, chia, which produces domoic acid, has proliferated along the west coast. Though the bloom is invisible to the naked eye, it causes potentially deadly domoic acid to accumulate in the bodies of razor clams and the crab that love to eat them

"The water from the boat looks normal, but when you concentrate it, it's ooey and gooey and just dark," said Ruth Howell, a spokesperson for the National Oceanic and Atmospheric Administration.

So far, Borchert said, the nitzchia that's growing in Pacific County waters hasn't caused any documented illnesses in humans. And unlike some of the toxic freshwater blooms, "It's so dilute that it has no effect on animals swimming in it," Borchert said. But it's still not safe to eat the affected species semi-regular testing shows that toxin levels are declining, but they're "still over the action level.

"It's still out there and it could still come back on our coast," Borchert said. "They've never seen a bloom like this that still continues to exist out in the ocean."

Do your part

The Department of Ecology would like citizens to report any suspected blooms, and also do their part to prevent harmful algae from spreading.

The following steps can keep algal blooms in check:

• Reduce the use of fertiliz-

ers and don't over water · Scoop, bag and trash dog

Check, fix and maintain

home septic tanks

· Maintain shoreline and wetland vegetation

calgae.org/

To find out what a toxic algae bloom looks like, see what lakes are having toxic algae blooms, and to report a suspected algae bloom, visit the Washington State Toxic Algae website: www.nwtoxi-

To find out where it's safe to harvest shellfish, call the Shellfish Safety Hotline at 1-800-562-5632 or visit the Department of Health's shellfish safety website.

If you suspect you have been exposed to toxic algae, see your physician. If you suspect your pet has been exposed, take it to the vet imme-

ACCUWEATHER® FORECAST FOR ASTORIA

Oregon Weather

Astoria

Corvallis

Portland 60/72

Eugene

Albany

Medford

Tues.

Astoria 5-Day Forecast



with a passing

Regional Cities

National Cities

Baker City Bend

Brookings

Newport

Klamath Falls

39 pc 43 pc 55 pc 52 c 58 r

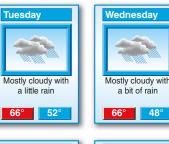
40 pc 54 pc

80

weather Temperatures are tonight's lows and tomorrow's highs

Shown is

tomorrow's





82 45 pc 76 47 pc 68 56 c

68 56 c 77 54 sh

рс

64 56

81 42 86 57

64 52

Forecasts and graphics provided by AccuWeather, Inc. ©2015 Almanac

| Astoria through Sunday. | | | | | |
|-------------------------|----------------------------|--|--|--|--|
| Friday | Temperatures | | | | |
| | High 68° | | | | |
| ann a | Low 56° | | | | |
| | Normal high 69° | | | | |
| | Normal low 52° | | | | |
| | Precipitation | | | | |
| Mostly cloudy with | Yesterday 0.07" | | | | |
| a passing shower | Month to date 1.18" | | | | |
| a passing snower | Normal month to date 1.10" | | | | |
| 4-0 | Year to date 28.96" | | | | |
| 67° 49° | Normal year to date 38.04" | | | | |
| | | | | | |

Sun and Moon Sunset tonight ...

The Dalles

58/78

| Juliliae i | uesuay | | 0.00 a.iii. |
|---------------|---------------|--------------|-------------|
| Moonrise | today | | 9:06 p.m. |
| Moonset | today | | 8:59 a.m. |
| Last Sep 5 | New Sep 12 | First Sep 21 | Full Sep 27 |
| | | | |

AccuWeather.com

Under the Sky

Tonight's Sky: The Milky Way arcs high overhead, from Cassiopeia in the north, through the Summer Triangle overhead, to Sagittarius in the

| Source: Jim Todd, OMSI | |
|-------------------------|--|
| Tomorrow's Tides | |
| Astoria / Port Docks | |

10:32 p.m.

Portland

Roseburg

Salem

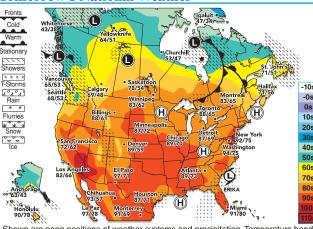
Seaside

| City | Hi | Lo | 'w | Hi | Lo | W |
|----------------|-----|----|----|-----|----|----|
| Atlanta | 85 | 71 | рс | 89 | 73 | рс |
| Boston | 91 | 70 | рс | 81 | 66 | s |
| Chicago | 85 | 68 | s | 89 | 70 | S |
| Denver | 84 | 57 | t | 89 | 59 | t |
| Des Moines | 87 | 69 | S | 91 | 71 | S |
| Detroit | 87 | 67 | рс | 87 | 69 | S |
| El Paso | 96 | 69 | t | 97 | 71 | t |
| Fairbanks | 47 | 33 | С | 51 | 32 | рс |
| Honolulu | 90 | 78 | sh | 90 | 78 | t |
| Indianapolis | 86 | 69 | рс | 88 | 69 | рс |
| Kansas City | 87 | 71 | S | 90 | 70 | S |
| Las Vegas | 102 | 76 | S | 100 | 75 | рс |
| Los Angeles | 85 | 67 | рс | 82 | 66 | рс |
| Memphis | 91 | 73 | рс | 93 | 74 | рс |
| Miami | 90 | 79 | t | | 80 | рс |
| Nashville | 86 | 68 | рс | 91 | 70 | рс |
| New Orleans | 92 | 75 | рс | 93 | 77 | рс |
| New York | 93 | 75 | рс | 92 | 75 | S |
| Oklahoma City | 93 | 71 | S | | 71 | S |
| Philadelphia | 91 | 73 | рс | | 73 | S |
| St. Louis | 91 | 74 | рс | 93 | 75 | S |
| Salt Lake City | 87 | 68 | S | 92 | 69 | рс |
| San Francisco | 74 | 60 | рс | 72 | 62 | рс |
| Seattle | 68 | 58 | r | | 53 | r |
| Washington, DC | 90 | 73 | С | 94 | 75 | S |
| | | | | | | |

Tomorrow's National Weather

58 sh 52 c 58 c

55 54 60



49 c 79 51 c 3.41 a.m. 6.6 ft. 4:06 p.m. 8.9 ft.

Shown are noon positions of weather systems and precipitation. Temperature bands are highs for the day. Forecast high/low temperatures are given for selected cities. Weather (W): s-sunny, pc-partly cloudy, c-cloudy, sh-showers, t-thunderstorms

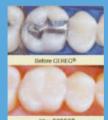
Have you waited until the end of the year to utilize your insurance benefits?

Klemp Family Dentistry now offers CEREC by Sirona ceramic dental restorations. Your new crowns can be completed in a single appointment!

Typical restorations require uncomfortable temporaries and impression trays, and returning for a secondary appointment for fillings, veneers or full crowns.



CEREC restorations are all color matched, metal free and highly durable. With 30 years of research and development backing this process, 28 million restorations placed worldwide and a success rate of 95%, you can rest assured that you've made the right decision to trust the CEREC system with your dental restoration needs.



The restorations look and feel natural, which will give you the confidence to SHOW YOUR SMILE.



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Hiking club changes event time Wash.) hike. The group now meets at 10 a.m. The Daily Astorian

The Angora Hiking Club has changed the meeting time of the Black Lake (Ilwaco,

Wednesday at the Sixth Street parking lot. For information, call Roger Westerman at 213-

Youngs River Basin closes to Chinook

The Daily Astorian

The Youngs River and its tributaries will close to retention of non-adipose fin-clipped fall Chinook beginning Tues-

Biologists at the Oregon Department of Fish and Wildlife announced the closure, which runs through Oct. 15, tined for the basin's hatcheries. The areas covered by the closure include:

to protect broodstock fish des-

• Youngs Bay/River from the commercial fishing deadline at Battle Creek Slough upstream to Young River Falls,

Klaskanine River from its confluence with Youngs River upstream to the Youngs River Loop Bridge (Tidewater Bridge).

According to Chris Kern, a Department of Fish and Wildlife fish division deputy administrator, very few select-area bright fall Chinook have returned to Youngs Bay and the Youngs River Basin so far this year.

Deaths

Aug. 25, 2015

BOYER, Edwin John "Ed," 35, of Astoria, died in Astoria. Hughes-Ransom Mortuary in Astoria is in charge of the arrangements.

Aug. 28, 2015

LAUGHMAN, Thomas Neil, 61, of Hammond, died in Portland. Caldwell's Luce-Layton Mortuary in Astoria is in charge of the arrangements.

Aug. 29, 2015

HART, Vernon Earl, 33, of Astoria, died in Astoria. Ocean View Funeral & Cremation Service in Astoria is in charge of the arrange-

Aug. 30, 2015

WOHLGEMUTH, Philip, 68, of Astoria, died in Astoria. Caldwell's Luce-Layton Mortuary in Astoria is in charge of the arrangements.

Lotteries

OREGON Sunday's Pick 4:

1 p.m.: 8-7-9-1 4 p.m.: 3-1-7-5 **7 p.m.:** 5-7-7-9

10 p.m.: 0-5-7-7 Saturday's Megabucks:

3-4-6-20-35-46 Estimated jackpot: \$1.2 million.

Saturday's **Powerball:** 18-21-25-28-29, Powerball: 16, Power Play: 2

Estimated jackpot: \$110 million. Saturday's Pick 4:

1 p.m.: 9-6-7-4 4 p.m.: 8-5-9-5 7 p.m.: 6-3-1-7 10 p.m.: 4-5-3-3 Friday's Pick 4: 1 p.m.: 6-0-0-2

4 p.m.: 1-4-9-9 7 p.m.: 3-3-5-1 **10 p.m.:** 2-3-3-7

WASHINGTON Sunday's Daily Game:

0 - 1 - 2Sunday's Keno: 05-13-14-18-20-28-29-30-41-47-49-

51-52-54-59-65-67-72-75-77 Sunday's Match 4: 08-

Saturday's Daily Game:

Saturday's Hit 5: 26-27-31-34-38

\$140,000

Estimated

jackpot:

Saturday's Keno: 02-04-07-12-16-20-22-42-43-46-53-54-55-59-63-65-72-74-77-79 Saturday's Lotto: 03-10-

24-25-27-38 Estimated jackpot: \$3.2 million.

Saturday's Match 4: 11-17-20-22 Friday's Daily Game:

Friday's Keno: 02-04-12-14-16-21-26-27-28-31-50-52-

53-56-58-60-65-66-68-71 Friday's Match 4: 09-14-

Friday's Mega Millions: 13-35-40-60-68, Mega Ball: 09

Estimated jackpot: \$74

Public meetings

MONDAY

Seaside City Council, 6:30 p.m., workshop, City Hall Council Chambers, 989 Broadway, Seaside.

TUESDAY

Seaside Community and **Senior Commission**, 10 a.m., Bob Chisholm Community Center, 1225 Avenue A, Seaside.

4:30 p.m., Seaside Library, 1131 Broadway, Seaside. Port of Astoria Commis-

Seaside Library Board,

sion, 5 p.m., workshop, 422 Gateway Ave., Suite 100. Cannon Beach City

Council, 6 p.m., City Hall, 163 E. Gower St., Seaside. Miles Crossing Sani-

tary Sewer District Board,

6 p.m., 34583 U.S. Highway 101 Business.

Astoria Planning Commission, 6:30 p.m., work session, Neighborhood Greenway, City Hall, 1095 Duane

Seaside Planning Commission, 7 p.m., City Hall Council Chambers, Broadway, Seaside.

The Daily Astorian

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