

Email Weather Briefing

Courtesy: NOAA/National Weather Service Portland, OR

December 17, 2018

Emergency Managers and Public Safety Officials,

UPDATE: Upped expected wind speeds for beaches and headlands, coastal communities, and higher Coast Range terrain. Shifted times for highest winds to start earlier and upped expected rainfall amounts. Widespread urban flooding possible across northern Willamette Valley/PDX Metro area around time of Tuesday morning commute.

TIMING/IMPACTS:

Monday into Tuesday

- **Surf conditions:** A large and powerful westerly swell in the 23 to 28 foot range will create an environment where waves will run much higher up beaches than normal. Seas and impacts peak Monday night and seas decrease slowly to around 20 ft Tuesday.

Monday evening-Tuesday

- **Wind Magnitudes & Impacts:**
 - **Beaches and Headlands:** 35 to 50 mph with gusts to 80 mph. Downed trees likely on headlands and power outages possible. It will be difficult if not impossible to walk on beaches during peak wind gusts.
 - **Coastal Communities & Coast Range:** 30 to 45 mph with gusts to 70 mph. Downed trees and power outages possible.
 - **Willamette Valley:** 25 to 40 mph with gusts of 35 to 50 mph. Downed trees and power outages possible. Strongest winds and heaviest impacts in the Central and Southern Willamette Valley.
- **Timing of Strongest Winds:**
 - **North Coast:** 5 PM Monday to 12 AM Tuesday
 - **South Coast:** 9 PM Monday to 7 AM Tuesday. May impact the morning commute.
 - **Willamette Valley:** 10 PM Monday to 7 AM Tuesday. May impact the morning commute.
- **Rain:**
 - **Timing:** Heavy rain begins late Monday afternoon and slowly shifts south across the region through Tuesday. Sharp river rises will occur with some river flooding likely across northwest Oregon and southwest Washington Monday night into Wednesday.

- **Coast: 2.5” to 5”**
 - **Impacts:**
 - Minor flooding possible on rivers including the Grays River (Wahkiakum County), the Wilson River (Tillamook County) and the Siletz River (Lincoln County).
 - Rain may be heavy for a couple of hours to produce localized urban flooding, especially in areas with blocked storm drains or poor drainage Monday night and early Tuesday.
- **Coast Range and Cascades: 3” to 8” with locally higher amounts**
- **Willamette Valley: 1.5” to 3”**
 - **Impacts:**
 - Heavy rain possibly causing **widespread urban flooding in the North Willamette Valley/Portland Metro Area** starting sometime between 4 AM and 10 AM Tuesday. This event could be similar to the Halloween 2015 or December 2015 urban flooding events in the Portland area. Based on past events, we’d expect urban flooding to be directly caused by a period of very heavy rain over about 2 hours.
 - Rivers of highest concern for reaching flood stage in the Willamette Valley include the upper Tualatin River (Washington County), the Clackamas River (Clackamas County), and Johnson Creek (Multnomah and Clackamas counties).

FORECAST CONFIDENCE:

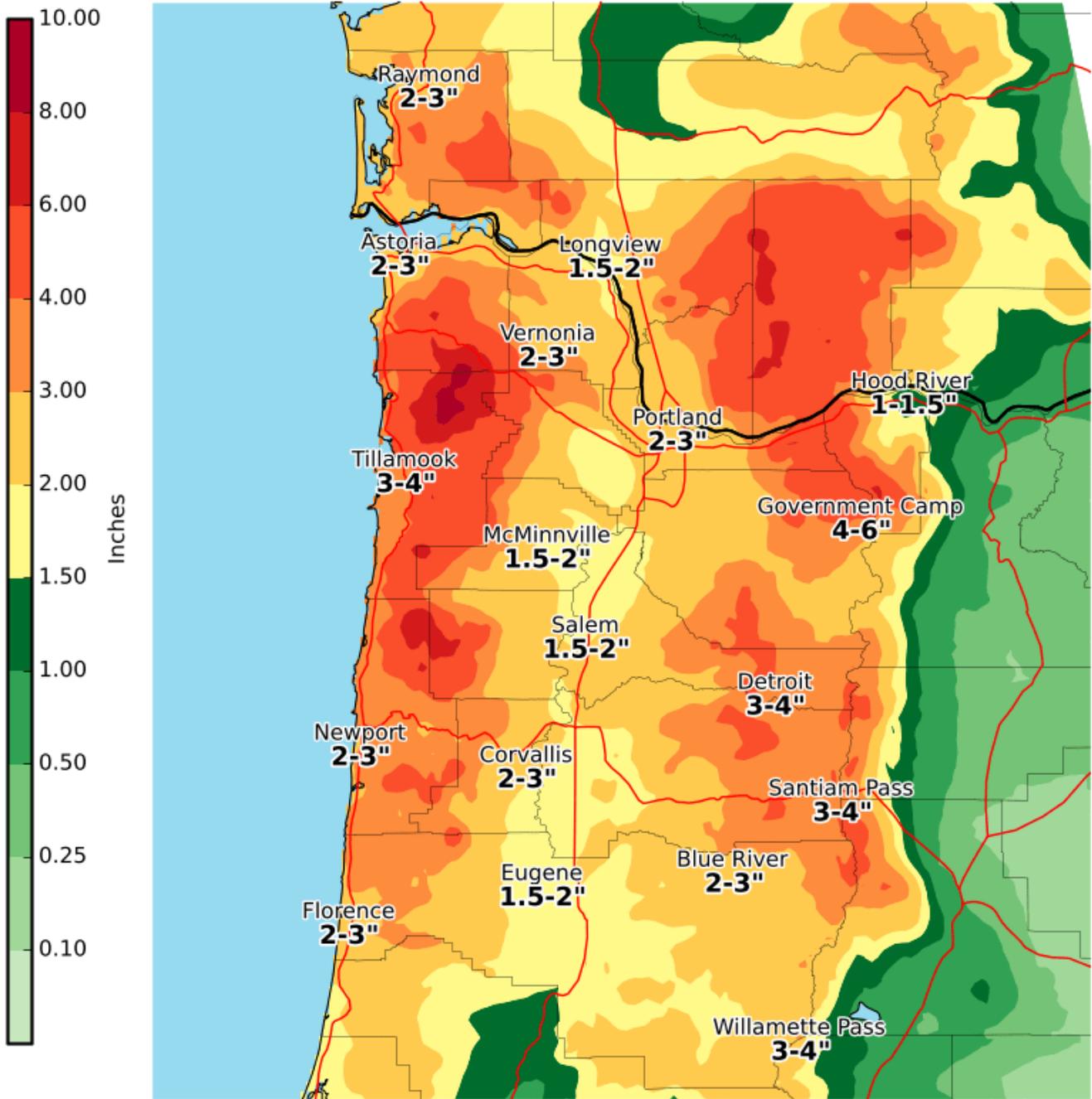
- HIGH Confidence**.....Hazardous sea conditions & dangerous surf zone through Tuesday morning
- High winds along the coast Monday night
- Period of 6-12 hours of moderate rainfall with a few hours of heavy rainfall within that period
- MODERATE Confidence**.....Rainfall amounts and river flooding
- Wind speeds across the Willamette Valley late Monday through early Tuesday
- Urban flooding in the North Willamette Valley/Portland Metro Area

Please do not reply to this email. Contact NWS Portland at 503-326-2340, 24 hours/day.
 Get your weather information at weather.gov/Portland.

Forecast rainfall for Mon (Dec 17) 4 PM to Tue (Dec 18) 4 PM

Storm Total Rain

Valid: 12/17/2018 04:00 PM - 12/18/2018 04:00 PM PST



National Weather Service
Portland Oregon

12/17/2018 11:20 AM PST

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