

## Forecast: This Should be a Warmer Winter, BUT Don't Discount Portland Snowstorm

by Bend Weekly News Sources

CORVALLIS, Ore. "For most of Oregon, the fall and winter weather this year should be comparatively warmer and maybe a touch wetter than usual" but with one big caveat.

Don't discount the possibility of a big snowstorm "at least, in Portland.

George Taylor, the state climatologist employed at Oregon State University, released his annual fall and winter forecast on Monday, which is based on analyzing numerous oceanic and atmospheric conditions and comparing them to similar years in the past. These "analog" years often offer the best avenue for predictions, Taylor said.

"One of the key factors is whether we are in any kind of an El Niño or La Niña year," Taylor said, "and it is difficult to gauge because different agencies and climatic models don't always agree. In general, most predictions call for a neutral to a weak El Niño winter" and some of our biggest snow events have occurred during these neutral years.

"Although this is just a guess, I don't think we'll see widespread snow throughout the low elevations, including the Willamette Valley and the rest of Oregon," Taylor added. "But it wouldn't surprise me to see at least one snow event of four or more inches in Portland, especially close to the gorge. Portland could have a big snow year."

Taylor said mountain snows usually are a bit deeper during these ENSO-neutral (El Niño/Southern Oscillation) years "especially in southern Oregon.

"For skiers, this should be a decent year," he pointed out. "Not as good as last year, but decent."

In addition to El Niño or La Niña conditions, Taylor uses a number of other factors in developing analog years including the overall warm-dry or cool-wet cycles "known as the multi-decadal phase" that occur on a 20- to 25-year basis. He also uses sea surface temperatures, the solar cycle, regional climate patterns and even hurricanes.

"Years ago, we noticed a strong correlation between the number of Atlantic hurricanes and Pacific Northwest climate during the winter," Taylor said. "Last year's very busy hurricane season followed by an extremely active winter in the Northwest is consistent with that pattern. The 2006 hurricane season "so far" has been unremarkable, suggesting we might have a much less active winter."

However, there have been some extreme events in analog years for the 2006-07 fall and winter seasons.

In 1951-52, for example, Oregon was struck by a major wind storm in November, two more large windstorms in December, a tornado in December near Eugene, and a large snowstorm in March.

The 1960-61 year brought statewide flooding in February.

Twenty years ago, Oregon saw record setting rainfall in November of 1986, followed by a strong coastal windstorm in January, and flooding in northwest Oregon in February.

Ten years ago, during another analog year, Oregon was struck by extreme floods in November, and more flooding in late December and early January. An ice storm hit Portland in December of 1996.

The last strong analog year was just three years ago in 2003-04. Oregon was hit by record cold in November, and an Arctic breakout with freezing rain and snow in January.

"As you can see," Taylor said, "predicting what will happen involves a bit of guesswork. There is the potential for extreme events, so windstorms and flooding are possibilities. So is snow, but Portland still seems the most likely possibility."

Taylor also has produced regional forecasts for Oregon. They include:

Oregon Coast: Above-average fall (October-December) and winter (January-March) Temperatures; average fall and winter precipitation.

Northwest Interior: Average fall temperatures and above-average winter temperatures; above-average fall precipitation and average winter precipitation.

Southwest Interior: Average fall temperatures and above-average winter temperatures; above-average fall precipitation and average winter precipitation.

N. Central/Northeast: Average fall temperatures and above-average winter temperatures; average fall and winter precipitation.

S. Central/Southeast: Average fall temperatures and above-average winter temperatures; average fall and

winter precipitation.

“Overall,” Taylor said, “it looks like we’ll see warmer-than-average temperatures in Oregon and average to above-average precipitation. Remember, that this is still a guess based on conditions. Last year was probably our most successful forecast ever, so we’ll see if we can make it two in a row.”

The Oregon Climate Service at OSU has Taylor’s entire forecast, as well as charts, graphics and links to other valuable climate sites. The Oregon Climate Service can be linked at: <http://www.ocs.oregonstate.edu/index.html>

About the OSU College of Oceanic and Atmospheric Sciences: COAS is internationally recognized for its faculty, research and facilities, including state-of-the-art computing infrastructure to support real-time ocean/atmosphere observation and prediction. The college is a leader in the study of the Earth as an integrated system, providing scientific understanding to address complex environmental challenges.

*Forecast: This Should be a Warmer Winter, BUT Don’t Discount Portland Snowstorm by Bend Weekly News Sources*