



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

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WINTER WEATHER 2002-2002 FORECAST American Meteorological Society Meeting, October 25th, 2002

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Climate prediction tools used (analog water years: 1952, 1958, 1964, 1966, 1970, 1973):

1. Dr. Landscheidt's Sunspot Cycle Model
(<http://www.john-daly.com/sun-enso/sun-enso.htm>)
(<http://www.vision.net.au/~daly/sun-enso/revisit.htm>)
Current and historical sunspot data: (<http://www.sunspotcycle.com/>)
2. Sea Surface Temperature departures
(http://www.emc.ncep.noaa.gov/research/cmb/sst_forecast/images/cmb.recordxy.gif)
3. University of Washington Climate Impacts Group (CIG) VIC Hydro model
(<http://www.ce.washington.edu/~hamleaf/DallesForecast.html>)

Winter 2002-2003 Climate Forecast:

Month:	Temperature (mean monthly):	"Hedge"	Precipitation (% normal):	"Hedge"
November	Near Normal (-1.8 to +1.8 degF)	1.1	Below Normal (70 - 90%)	84%
December	Near Normal (-1.8 to +1.8 degF)	-1.8	Near Normal (90 - 110%)	110%
January	Near Normal (-1.8 to +1.8 degF)	1.2	Above Normal (110 - 130%)	132%
February	Above Normal (> +1.8 degF)	2.5	Below Normal (70 - 90%)	80%
March	Above Normal (> +1.8 degF)	2.9	Below Normal (70 - 90%)	88%

Water Resources Forecast for WY 2003:

Seasonal Precipitation, as measured at the Columbia at The Dalles: **90%** of normal (1971-2000).

January-July Water Supply Forecast (Columbia at The Dalles): **97 MaF** or 90% of normal.

The Sunspot Cycle model predicted the current *El Nino* four years ago—a huge leap in forecast science—and indicates this *El Nino* will peak in late November. Australian forecasters suggest the *El Nino* will die out by May. UW CIG research suggests that the warm-dry weather of *El*

Nino will almost be counteracted by the cold-wet phase of the Pacific Decadal Oscillation.