



COLUMBIA RIVER INTER-TRIBAL FISH COMMISSION

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WINTER WEATHER 2003-2004 FORECAST American Meteorological Society Meeting, October 30th, 2003

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Climate prediction tools used:

1. University of Washington Climate Impacts Group VIC Hydro model
(<http://www.hydro.washington.edu/Lettenmaier/Projects/fcst/index.htm>)
2. Assume weakly warm phase Pacific Decadal Oscillation, ENSO neutral conditions.
3. Analog Water Years: 1961, 1962, 1967, 1979, 1981, 1982, 1990, 1991, 1993, 1994, and 1997.
4. Sea Surface Temperature departures
(http://www.emc.ncep.noaa.gov/research/cmb/sst_forecast/images/cmb.recordxy.gif)
5. Dr. Landscheidt's Solar Cycle Model (Germany)
(<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/>)

Winter 2003-2004 Climate Forecast for Portland:

Month:	Temperature (mean monthly):	"Hedge"	Precipitation (% normal):	"Hedge"
November	Near Normal (-1.8 to + 1.8 degF)	-0.1	Near Normal (90 - 110%)	95%
December	Near Normal (-1.8 to + 1.8 degF)	-0.6	Near Normal (90 - 110%)	93%
January	Below Normal (< -1.8 degF)	-1.8	Below Normal (70 - 90%)	75%
February	Below Normal (< -1.8 degF)	-1.9	Near Normal (90 - 110%)	100%
March	Near Normal (-1.8 to + 1.8 degF)	1.2	Near Normal (90 - 110%)	102%

Snow (% probability): November 40%, December 70%, January 70%, February 90%, March 90%.

Water Resources Forecast for WY 2004:

January-July Water Supply Forecast (Columbia at The Dalles): **104-110 MaF** or 97-102% of normal.

Winter 2002-2003 Climate Forecast vs. Observed for Portland:

Month:	Temperature (mean monthly):	"Hedge"	Observed	Precipitation (% normal):	"Hedge"	Observed
November	Near Normal (-1.8 to + 1.8 degF)	1.1	1.9	Below Normal (70 - 90%)	84%	52%
December	Near Normal (-1.8 to + 1.8 degF)	-1.8	3.2	Near Normal (90 - 110%)	110%	140%
January	Near Normal (-1.8 to + 1.8 degF)	1.2	4.8	Above Normal (110 - 130%)	132%	151%
February	Above Normal (> + 1.8 degF)	2.5	1.2	Below Normal (70 - 90%)	80%	57%
March	Above Normal (> + 1.8 degF)	2.9	1.8	Below Normal (70 - 90%)	88%	155%