



Winter Outlook (2014-2015)

Yamhill County

Winter Weather Planning Meeting

October 23, 2014



*Tyree Wilde
Warning Coordination Meteorologist
National Weather Service
Portland, OR*



Overview

- Weather Ready Nation
- Tools for Decision Making
- Recap Winter 2013-2014
- Winter Outlook (2014-2015)



Some vehicles are abandoned in Tillamook.



Are you Ready for *Winter?*

**We're hear to help
Decision Assistance
Building Community Resilience**





Working Together → WRN

- A perfect forecast doesn't mean a perfect outcome for the community

“Craig Fugate, FEMA Administrator”

- We must work together to build community resilience
- Weather Ready Nation





Weather-Ready Nation

National Oceanic and Atmospheric Administration

Advancing towards a Weather-Ready Nation



The Weather-Ready Nation initiative is one year old. Since its inception, NOAA has been busy launching new pilot projects, upgrading technology and working with partners to increase the country's resiliency to weather-dependent events





Decision Assistance

Weather Tools for Decision Making





Being Weather Ready & Staying Informed

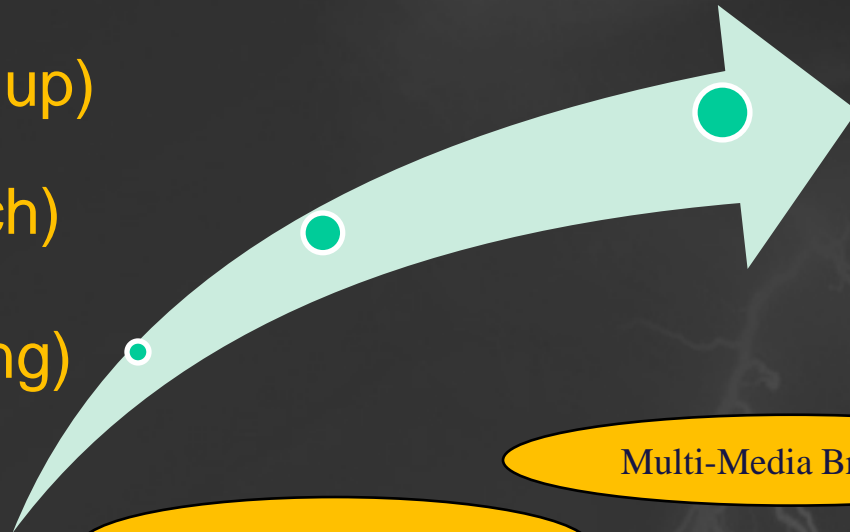
- How far out can we tell you about a significant weather/flood event?



5 to 7 Days (Heads up)

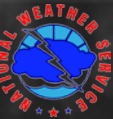
24 to 36 hours (Watch)

0 to 12 hours (Warning)



Virtual Briefings

Multi-Media Briefings



Being Weather Ready Staying Informed

- **iNWS**
 - cell phone application
 - <https://inws.wrh.noaa.gov/user/register>

- **NWS Webinars**
- **Email briefings**
- **YouTube multi-media briefings**
- **Phone (always welcome)**

WWUS46 KPQR 240551
WSWPQR

URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE PORTLAND OR
951 PM PST WED FEB 23 2011

...LOW ELEVATION SNOWFALL EXPECTED THROUGH FRIDAY MORNING...

UNSEASONABLY COLD WEATHER FOR LATE FEBRUARY IS BRINGING SNOW TO LOW ELEVATIONS ACROSS THE FORECAST AREA. A COLDER AIR MASS WILL MOVE INTO THE REGION TONIGHT AND THURSDAY...WITH ACCUMULATING SNOW DOWN TO THE BEACHES AND VALLEY FLOOR THROUGH FRIDAY MORNING.





Point Forecasts

(weather.gov)



National Weather Service Forecast Office
Portland, OR

Home News Organization Frequently Asked Questions Search NWS

Local Forecast By "City, St" City, St

- Text Only (cell)
- Current Warnings
 - Local
 - National
 - Storm Reports
 - Mt. St. Helens
 - Tsunami Info
- Current Conditions
 - Observations
 - Buoys | Tides
 - Satellite | Radar
 - AHPS: Rivers/Lks
 - Snow Data
 - Upper Air
 - Cams | Roads
 - Air Quality...
 - OR | WA | CA
- Forecasts
 - Activity Planner
 - Digital / Gridded
 - Discussion/Text
 - QPF & Rain
 - Aviation
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 - Fire Weather
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- Experimental...
 - Wx Point Matrix
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 - Precip Estimates
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Please consider completing the [Survey](#) on our flood and water forecast services.

[New CoCoRaHS page!](#)

[Common Questions](#)

Select a Product

List Updated 10:23 am 08-28-08 PDT

Northwest Oregon and Southwest Washington Weather [Map FAQs](#) | [Glossary](#)

Click on the map below for the latest forecast.

Read watches, warnings & advisories

Zoom Out

Small Craft Advisory

Last map update: Aug, 28th 2008 at 10:23:21 am

National Weather Service Forecast Office
Portland, OR

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Issued By: Portland, Oregon (PDX) [Printable](#)

Point Forecast: Vancouver, WA
 46.63N - 122.67W (City, 164 ft)

Time Forecast (°C) [Or English](#)

Last Update: 2:48 pm PDT Aug 28, 2008
 Forecast Valid: 5pm PDT Aug 28, 2008-6pm PDT Sep 4, 2008

Forecast at a Glance

Tonight	Friday	Friday Night	Saturday	Saturday Night	Sunday	Sunday Night	Labor Day	Monday
Lo 57F	H 70F	Lo 57F	H 69F	Lo 49F	H 69F	Lo 47F	H 53F	Lo 51F

Detailed 7-day Forecast

Tonight: Mostly clear, with a low around 57. West wind between 0 and 5 mph becoming calm.

Friday: Increasing clouds, with a high near 70. Calm wind becoming northwest between 10 and 13 mph.

Friday Night: A 30 percent chance of showers, mainly before 11pm. Mostly cloudy, with a low around 51. Northwest wind between 0 and 13 mph, with gusts as high as 18 mph.

Saturday: Partly sunny, with a high near 65. Northwest wind between 0 and 13 mph, with gusts as high as 18 mph.

Saturday Night: A 20 percent chance of showers. Mostly cloudy, with a low around 43. Northwest wind between 10 and 13 mph becoming light. Winds could gust as high as 18 mph.

Sunday: A 20 percent chance of showers. Mostly cloudy, with a high near 65.

Sunday Night: Mostly cloudy, with a low around 47.

Labor Day: Partly sunny, with a high near 70.

Detailed Point Forecast [View Data](#)

Click Here for Forecast

Latitude: 46.63 Longitude: 122.67 Elevation: 164 ft

Current Conditions [View Us](#)

Vancouver Pearson Field Airport
 Last Update on 28 Aug 10:53 PDT

Humidity	45%
Wind Speed	WWSW @ 2871
Barometer	30.10 in (1019.48 mb)
Dewpoint	57F (14C)
Heat Index	80F (27C)
Visibility	10.00 Miles
Other Local Obs	3 Day History

Radar and Satellite Images

Additional Forecasts & Information

- Zone Area Forecast for Greater Portland Metro Area, OR
- Printable Forecast
- Text Only Forecast
- Text Forecast (°C)
- About Point Forecasts
- Hourly Weather Graph
- Tabular Forecast
- Forecast Discussion
- PFM (Forecast Matrix)
- PFM Decoding Guide
- Road Conditions
- Rainfall Forecasts
- Current River Levels
- Weather Planner
- Mapped Observations

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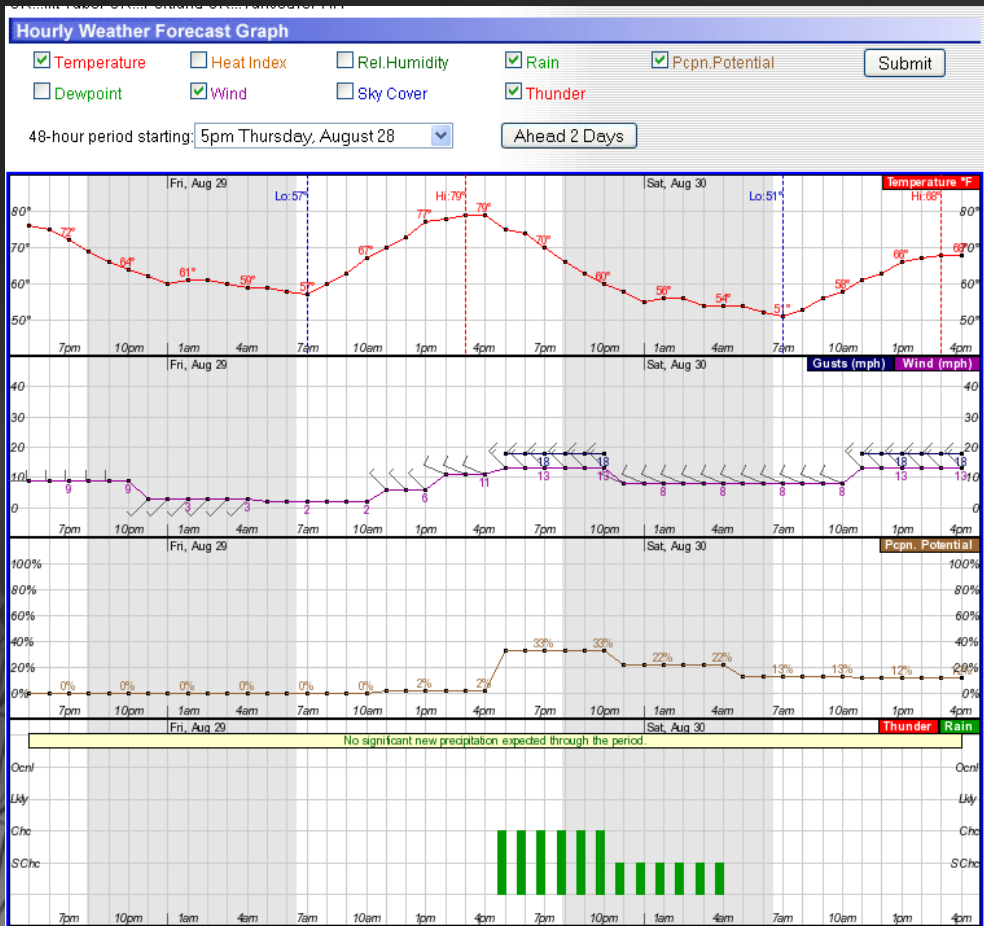
Featured Product

Click Images For More Info

Observed Normals Records



Hourly Weather Graphs



Thursday, August 28 at 5pm
 Temperature: 76°F Wind: W 9mph
 Precipitation Potential: 0%
 Rain: <10% Thunder: <10%

National Weather Service Forecast Office

Portland, OR

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Issued By: Portland, Oregon (PDX) [Printable](#) [Text Forecast \(°C\)](#) [En Español](#)
 Point Forecast: Vancouver, WA [Last Update: 2:48 pm PDT Aug 28, 2003](#)
 45.63N -122.67W (Elev: 164 ft) [Forecast Valid: 5pm PDT Aug 28, 2003-4pm PDT Sep 4, 2003](#)

Forecast at a Glance

Time	Forecast	High/Low	Chance
Tonight	Mostly Clear	Lo 57°	
Friday	Increasing Clouds	H 79°	
Friday Night	Chance Rain	Lo 57°	30%
Saturday	Partly Sunny	H 69°	
Saturday Night	Slight Ch: Showers	Lo 49°	20%
Sunday	Slight Ch: Showers	H 69°	20%
Sunday Night	Mostly Cloudy	Lo 47°	
Labor Day	Partly Sunny	H 53°	
Monday	Mostly Cloudy	Lo 51°	

Detailed 7-day Forecast

Tonight: Mostly clear, with a low around 57. West wind between 6 and 9 mph becoming calm.

Friday: Increasing clouds, with a high near 79. Calm wind becoming northeast between 10 and 13 mph.

Friday Night: A 30 percent chance of showers, mainly before 11pm. Mostly cloudy, with a low around 57. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.

Saturday: Partly sunny, with a high near 69. Northeast wind between 6 and 13 mph, with gusts as high as 18 mph.

Saturday Night: A 20 percent chance of showers. Mostly cloudy, with a low around 49. Northeast wind between 10 and 13 mph becoming light. Winds could gust as high as 18 mph.

Sunday: A 20 percent chance of showers. Mostly cloudy, with a high near 69.

Sunday Night: Mostly cloudy, with a low around 47.

Labor Day: Partly sunny, with a high near 73.

Monday Night: Mostly cloudy, with a low around 53.

Tuesday: Partly sunny, with a high near 75.

Tuesday Night: Mostly cloudy, with a low around 50.

Wednesday: Partly sunny, with a high near 74.

Wednesday Night: Mostly cloudy, with a low around 51.

Thursday: Partly sunny, with a high near 74.

Current Conditions

Vancouver Pearson Field Airport
Last Update on 28 Aug 10:53 PDT

Humidity	45%
Wind Speed	W 9/28/11
Barometer	30.10 in (1019.48 mb)
Dewpoint	57° (14°C)
Heat Index	80° (27°C)
Visibility	10.00 Miles
Other Local Obs	3 Day History

Radar and Satellite Images

National Digital Forecast Database

Additional Forecasts & Information

- Area Area Forecast for Clatsop County, WA
- Portland Forecast
- Sea Forecast (°C)
- Spot Forecast (°C)
- Forecast (°C)
- Forecast (°C)
- PPM Forecast (Metric)
- PPM Forecast (Gads)
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- Forecast Observations



Activity Planner



National Weather Service Forecast Office

Portland, OR

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Top News of the Day

[Update: NWS Coastal Radar for SW Washington/NW Oregon](#)

[Sept is Weather Radio Awareness Month](#)

Last 30 Products Issued:

Forecast by City:

A HIGH WIND WARNING IS IN EFFECT FOR THE SOUTH [...more...](#)

Weather Story



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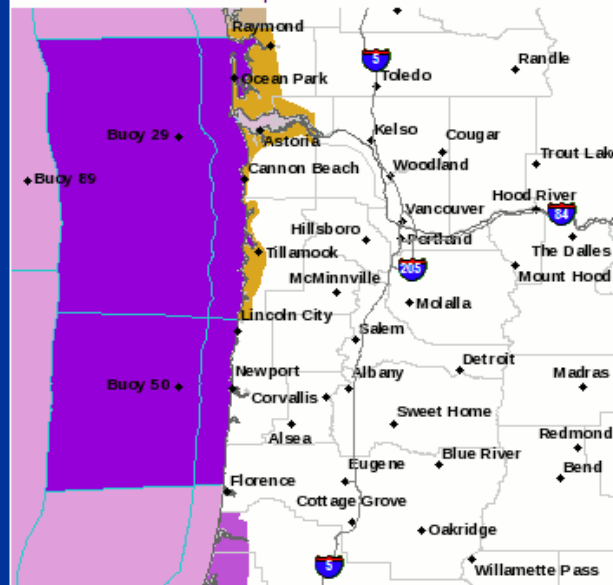
[Fire Weather](#)

[Local](#)

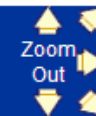
Northwest Oregon and Southwest Washington Weather

[Map FAQs](#) | [Glossary](#)

Click on the map below for the latest forecast.



Read watches, warnings & advisories



High Wind Warning

Storm Warning

Gale Warning

Hazardous Seas

Warning

High Surf Advisory

Small Craft Advisory

Wind Advisory

Hazardous Weather

Outlook

Short Term Forecast

Last map update: Sep, 26th 2011 at 1:50:11 pm PDT



Activity Planner

National Weather Service Forecast Office

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Search for:

NWS All NOAA Go

Weather Activity Planner for 45.34°N 121.72°W

[Interactive](#)

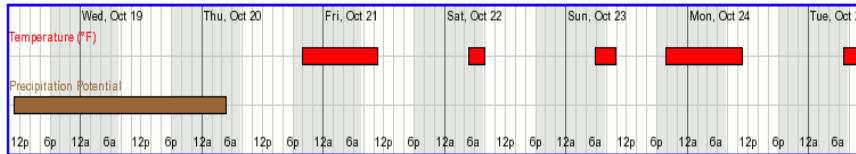
Point Forecast: 3 Miles NE Government Camp OR

Weather Activity Planner

This interactive forecast display is intended for general planning purposes. Data entered may have been changed for accuracy. Please verify the below data is appropriate. All wind direction information should be entered in a clockwise direction (using compass directions i.e. E, ESE, SE, etc). Public **comments and suggestions** are encouraged.

This application generates products from a digital forecast data base. It is intended to allow a user to define and produce a forecast for general planning purposes only. As any weather or hydrologic event evolves, updated forecasts and warnings are issued by the NWS. Customers are urged to obtain the latest official forecast information prior to engaging in any weather sensitive activity, and to monitor forecasts for updates during such activities.

The **Weather Activity Planner** is NOT meant to replace a spot forecast request. **Weather Activity Planner** surface winds are a gridded representation of projected, local surface winds at a 5km or 2.5km resolution. The surface winds returned do NOT account for fuel type, sheltering or slope aspect. Users can select either surface wind speeds or 20 foot winds (if the 20 foot wind grid is available). If precise wind forecasts are needed, please submit a spot forecast request to your servicing Weather Forecast Office.



Tuesday, October 25 at 6am

48-hr Element Meteorogram

Temperature: 37 °F

Precipitation Potential: 22%

Element	Min	Max	Element	Min	Max
Temperature (°F)	30	to 36	Surface Wind Speed (mph)		to
Relative Humidity		to	Sky Cover		to
Surface Wind Speed (mph)		to	Precipitation Potential	0	to 20

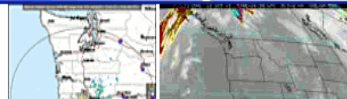
Latitude/Longitude Entry

decimal degrees (i.e. 42.134) or deg min sec (i.e. 42 23 34)
Use "-" (negative sign) in longitude for locations in Western Hemisphere

Latitude: 45.3275

Longitude: -121.7159

Radars and Satellite Images



Additional Forecasts & Information

- [International System of Units](#)
- [Forecast Discussion](#)
- [7-Day Forecast](#)
- [Tabular Forecast](#)
- [Quick Forecast](#)
- [PFM \(Forecast Matrix\)](#)
- [PFM Decoding Guide](#)



Observations

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Get Local Forecast for: Enter location... Search Help

Text Only (cell)

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- Satellite | Radar
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- Snow Data
- Upper Air
- CoCoRaHS
- Cams | Roads
- Air Quality...
- OR | WA | CA

Forecasts

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- Fire Weather
- Canada / Int'l

Experimental...

- Wx Point Matrix: Marine | Fire
- Precip Estimates

Climate...

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- NowData
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Model Data

- Graphics
- Guidance
- Meteograms

Weather Safety

- Weather Radio
- Safety Info
- SkyWarn™
- COOP Prg.

National Weather Service
Mesonet Observations

Click on Station for Time

Local Me Weather

In Over: Astoria, Aurora, Baker

In Was: Bellingham, Bremerton

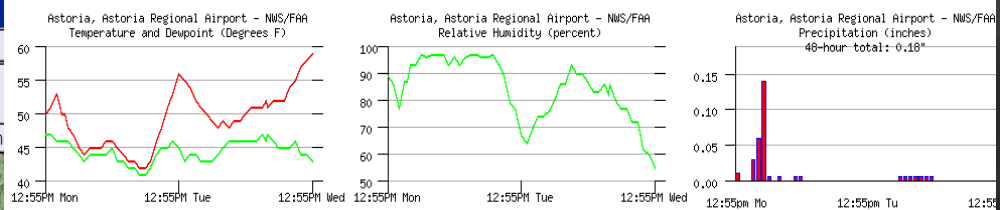
Other: ...

Hourly: ...

Select: Alaska, Arizona, North Carolina

Rest of: ...

Alaska, Arizona, North Carolina



Weather Conditions for:
Astoria, Astoria Regional Airport, OR (KAST)
Elev: 10 ft, Latitude: 46.15694, Longitude: -123.68250

Current time: Wed, 09 Nov 1:40 pm (PST)
Most Recent Observation: Wed, 09 Nov 12:55 pm PST (PST)

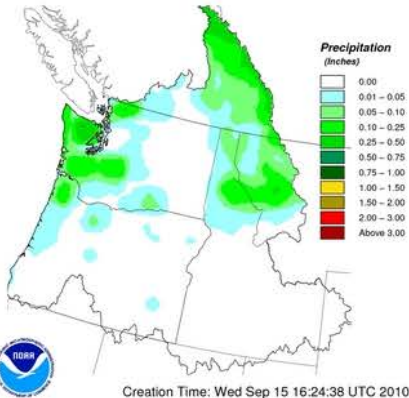
Time (PST)	Temp (F)	Dew (F)	Relative Humidity (%)	Wind Direction	Wind Speed (mph)	Visibility (miles)	WX	Clouds	Sea Level Pressure (mb)	Altimeter Setting (inches)	Station Pressure (inches)	Precip (inches)				Temp
												1 hour	3 hour	6 hour	24 hour	
09 Nov 12:55 pm PST	59	43	55	ESE	10	10.00		OVC045	1021.5	30.17	30.168					
09 Nov 11:55 am PST	58	44	60	ESE	8	10.00		OVC043	1022.0	30.18	30.178					
09 Nov 10:55 am PST	57	44	62	ESE	8	10.00		BKN041 OVC060	1022.4	30.19	30.188					
09 Nov 9:55 am PST	55	46	72	ESE	12	10.00		FEW043 BKN060	1022.3	30.19	30.188					
09 Nov 8:55 am PST	54	45	72	ESE	7	10.00		BKN040 BKN050	1022.3	30.19	30.188					55 51
09 Nov 7:55 am PST	52	45	77	ESE	8	10.00		FEW049	1022.8	30.19	30.188					
09 Nov 6:55 am PST	52	45	77	ESE	6	10.00		OVC049	1022.1	30.18	30.178					
09 Nov 5:55 am PST	52	46	80	SE	7	10.00		SCT038 OVC045	1021.9	30.18	30.178					
09 Nov 4:55 am PST	51	47	86	ESE	7	10.00		OVC030	1021.8	30.18	30.178					
09 Nov 4:44 am PST	52	46	82	ESE	7	10.00		OVC030	1021.8	30.18	30.178					
09 Nov 3:55 am PST	51	47	86	ESE	7	10.00		OVC028	1021.7	30.17	30.168					
09 Nov 2:55 am PST	51	46	83	ESE	7	10.00		OVC026	1021.9	30.18	30.178					51 48
09 Nov 1:55 am PST	51	46	83	ESE	8	10.00		OVC026	1022.0	30.18	30.178					
09 Nov 12:55 am PST	50	46	87	ESE	6G24	10.00		BKN026 OVC035	1022.1	30.19	30.188					
08 Nov 11:55 pm PST	49	46	90	E	5	9.00	-RA	OVC024	1022.3	30.19	30.188					
08 Nov 10:55 pm PST	49	46	90	E	6	10.00	-RA	OVC022	1022.2	30.19	30.188					
08 Nov 9:55 pm PST	48	46	93	E	6	10.00		OVC024	1022.4	30.20	30.198					52 48
08 Nov 8:55 pm PST	49	45	86	ESE	5	7.00	-RA	OVC021	1022.2	30.19	30.188					
08 Nov 7:55 pm PST	48	44	86	E	6	7.00	-RA	OVC026	1022.0	30.18	30.178					
08 Nov 6:55 pm PST	49	43	80	ESE	7	8.00	-RA	OVC028	1021.9	30.18	30.178					
08 Nov 5:55 pm PST	50	43	76	SSE	6	10.00		OVC032	1021.8	30.18	30.178					
08 Nov 4:55 pm PST	51	43	74	ESE	5	10.00		BKN043 BKN055 OVC070	1022.0	30.18	30.178					
08 Nov 3:55 pm PST	52	44	74	SSE	5	10.00		FEW038 BKN090	1022.1	30.19	30.188					56 48
08 Nov 2:55 pm PST	54	44	69	SE	6	10.00		FEW034 SCT040 OVC095	1022.2	30.19	30.188					
08 Nov 1:55 pm PST	55	43	64	SE	6	10.00		FEW043 OVC090	1022.2	30.19	30.188					
08 Nov 12:55 pm PST	56	45	67	ENE	7	10.00		FEW038	1022.5	30.20	30.198					
08 Nov 11:55 am PST	53	46	77	NE	8	10.00		OVC055	1023.1	30.22	30.218					
08 Nov 10:55 am PST	51	45	79	ENE	7	10.00		OVC060	1023.7	30.23	30.228					
08 Nov 9:55 am PST	48	45	89	E	3	10.00		OVC050	1023.7	30.23	30.228					48 40
08 Nov 8:55 am PST	46	44	93	E	5	10.00		OVC055	1023.7	30.23	30.228					
08 Nov 7:55 am PST	43	42	97	ESE	5	10.00		BKN055	1023.6	30.23	30.228					
08 Nov 6:55 am PST	42	41	96	ESE	3	9.00		SCT055	1023.4	30.22	30.218					
08 Nov 5:55 am PST	42	41	96	ESE	3	8.00		BKN055	1023.3	30.22	30.218					
08 Nov 4:55 am PST	42	42	97	CALM	10.00			OVC050	1023.8	30.24	30.238					
08 Nov 3:55 am PST	43	42	97	CALM	10.00			SCT050	1024.0	30.24	30.238					
08 Nov 2:55 am PST	44	43	96	SE	3	10.00		FEW055	1023.9	30.24	30.238					
08 Nov 1:55 am PST	45	43	93	CALM	10.00			OVC050	1024.3	30.25	30.248					
08 Nov 12:55 am PST	46	45	86	SSE	5	10.00		FEW030 BKN037 OVC055	1024.5	30.26	30.258					



Precipitation & Temp Forecasts

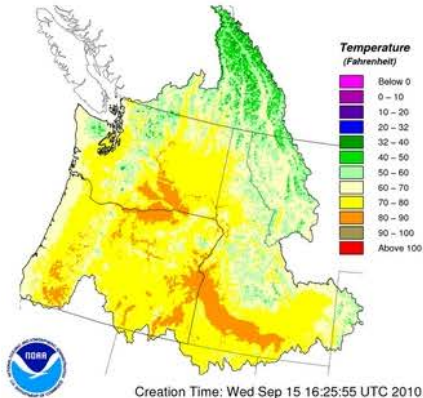
Thursday

DAY 2 QPF, 24hr Period Ending 12Z, 09/17/2010



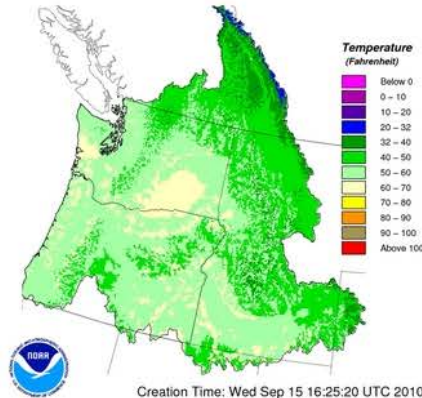
Thursday

Forecast Max Temperature , Ending 04Z, 09/17/2010



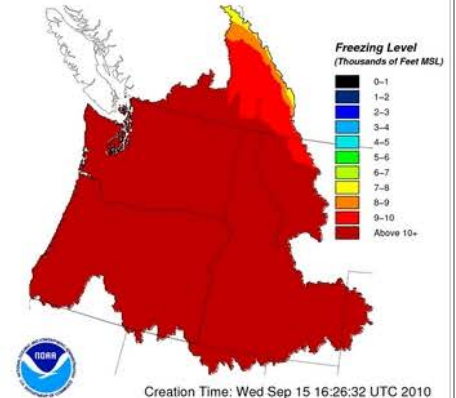
Thursday

Forecast Min Temperature , Ending 17Z, 09/17/2010



Thursday

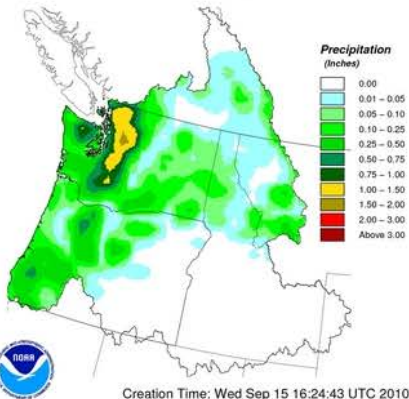
Forecast Freezing Level , Ending 12Z, 09/17/2010



Day 3 Forecasts -- Ending Saturday, September 18 at 5am PDT

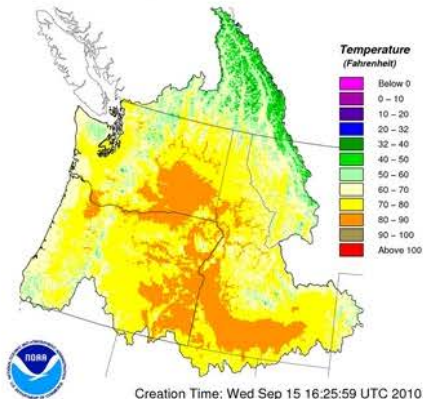
Friday

DAY 3 QPF, 24hr Period Ending 12Z, 09/18/2010



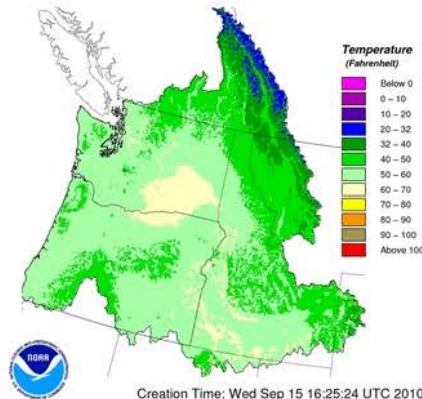
Friday

Forecast Max Temperature , Ending 04Z, 09/18/2010



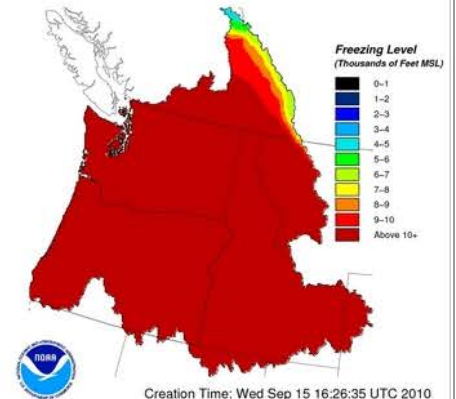
Friday

Forecast Min Temperature , Ending 17Z, 09/18/2010



Friday

Forecast Freezing Level , Ending 12Z, 09/18/2010



www.nwrfc.noaa.gov/weather/10_day.cgi



How High will the River Get?

Advanced Hydrologic Prediction Services



NOAA

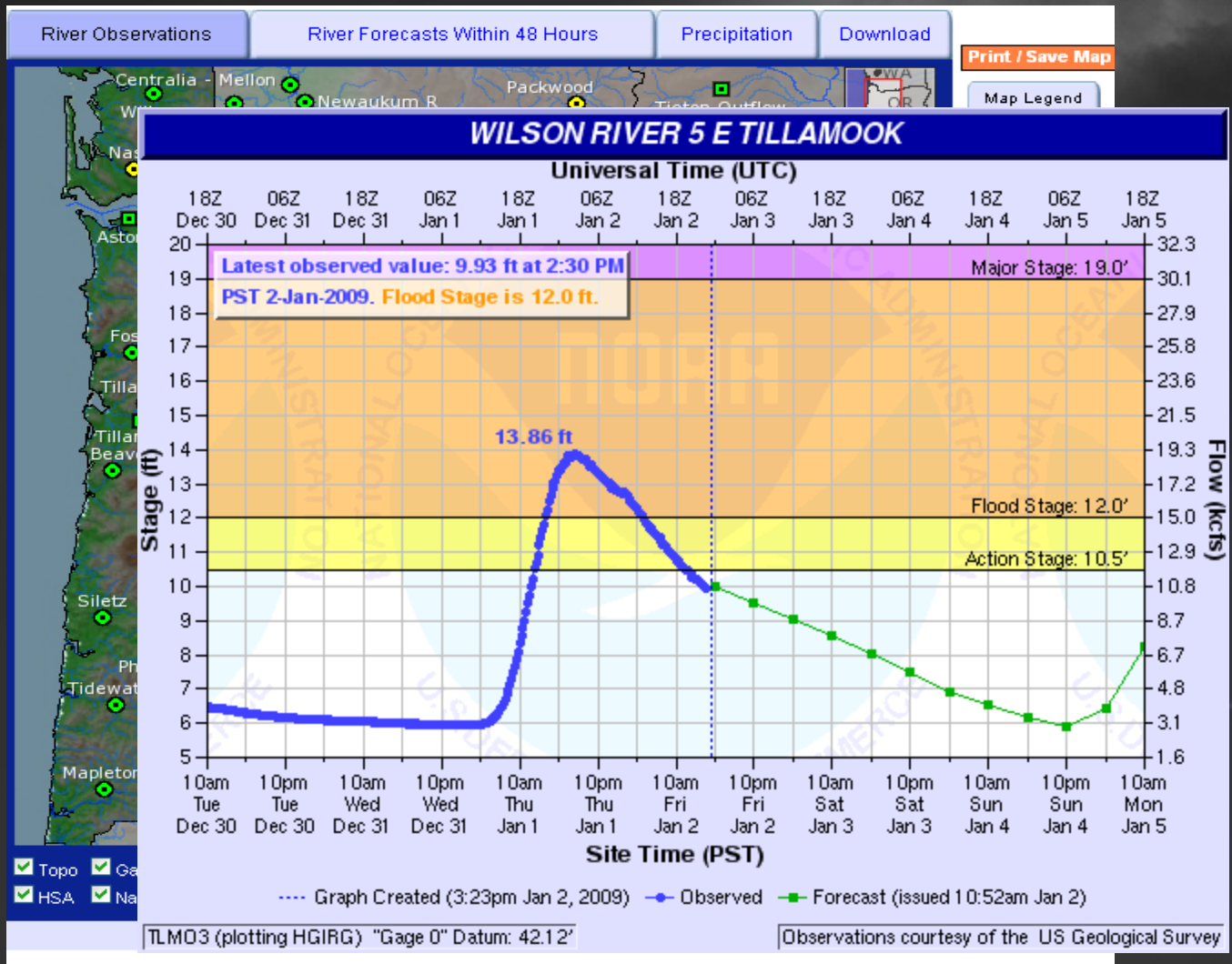
Local Forecast By "City, St"

Text Only (cell)

Current Warnings
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National
Storm Reports
Mt St. Helens
Tsunami Info

Current Conditions
Observations
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Satellite | Radar
AHPS: Rivers/Lks
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Upper Air
Cams | Roads
Air Quality...
OR | WA | CA

Forecasts
Activity Planner
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Discussion/Text
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Fire Weather
Canada / Int'l





The Future

Building a Weather-Ready Nation

- Building Community Resilience
- Working with you to prepare for and respond to significant weather / flood events



Decision Support Services



Virtual Briefings

Impact based Warnings

IMET Services

Multi-Media Briefings

Exercises with Customers

EWARN & iNWS

Wx Story

Seasonal Workshops

IRIS – Customer Impacts

Digital Database (NDFD)

Internet

IPAWS

Commercial Mobile Alert System



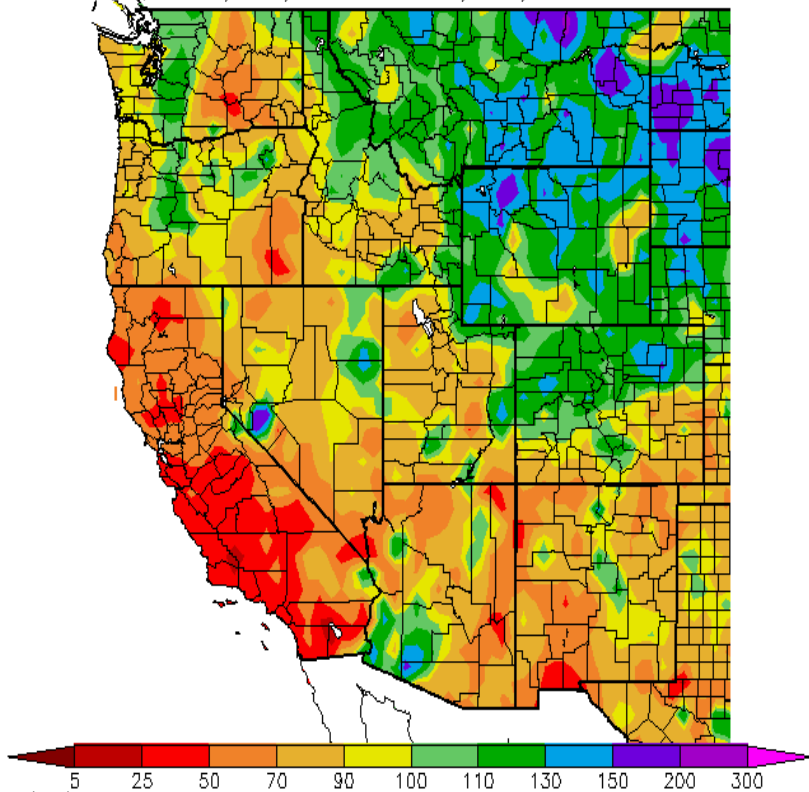
What happened last winter? Winter Recap

2013-2014



Recap - Winter 2013-14

Percent of Average Precipitation (%)
9/15/2013 - 9/14/2014



Generated 9/15/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

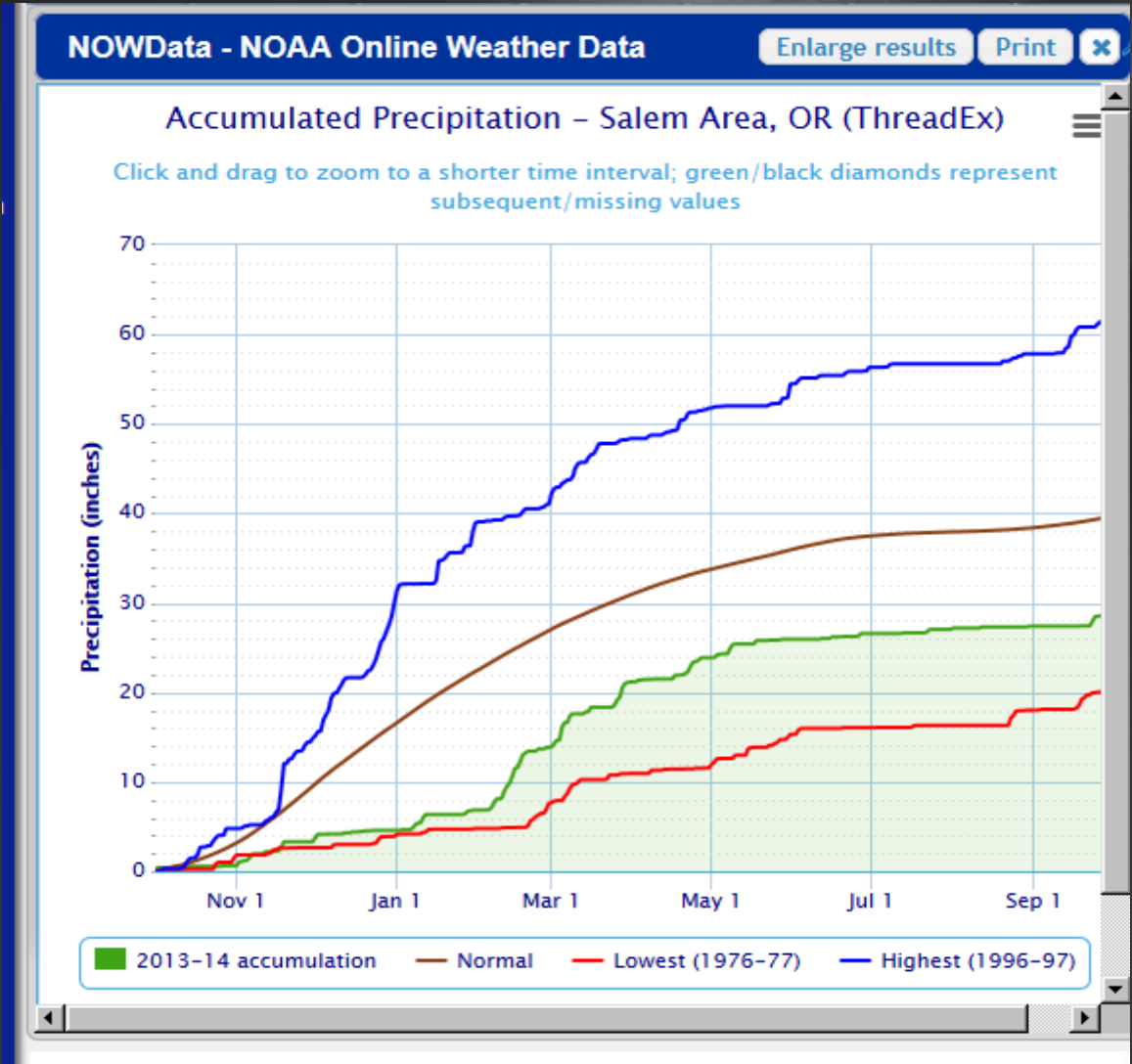
- **Precipitation –**
 - *Cascades: near normal*
 - *Coast: 70-90% of normal*
 - *Valley: 70-80% of normal*
- **Mountain snow**
 - *Slightly below normal north Cascades*
 - *Much below normal south Cascades*



2012-2013 Winter in Review

Astoria rainfall

Oct 2013-Sep 2014



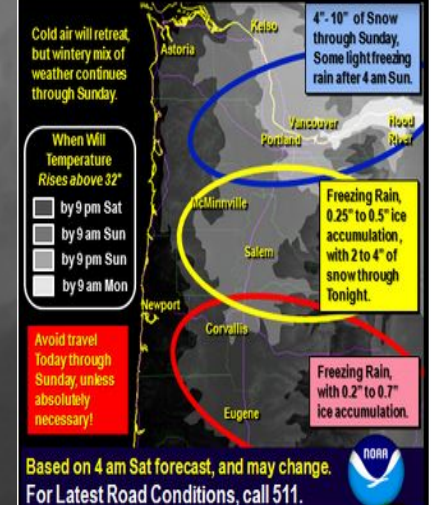


But we had this!

- Feb 6-9 snow & ice storm



Stay Alive. DON'T DRIVE. Freezing Rain & Snow Increasing



Like · Comment · Share 1,773

101 people like this. Top Comments

Write a comment...

Kris Ellis Easter Bend?????????
Like · Reply · 1 · about an hour ago

US National Weather Service Portland Oregon
Bend forecast comes from our US National Weather Service Pendleton Oregon office. Looks like snow through Sunday, then rain. <http://forecast.weather.gov/MapClick.php...>

NOAA National Weather Service
forecast.weather.gov
A series of storms will impact portions of the Western U.S through this weekend.... See More

Like · Remove Preview · about an hour ago

Write a reply...

Tim Elliott What is the forecast for Woodland, WA Sunday morning? Trying to plan for morning Sunday services.
Like · Reply · 3 hours ago · Edited

US National Weather Service Portland Oregon replied · 2 Replies · 3 hours ago

View more comments 2 of 55

54,208 people saw this post Boost Post



How about this Winter?

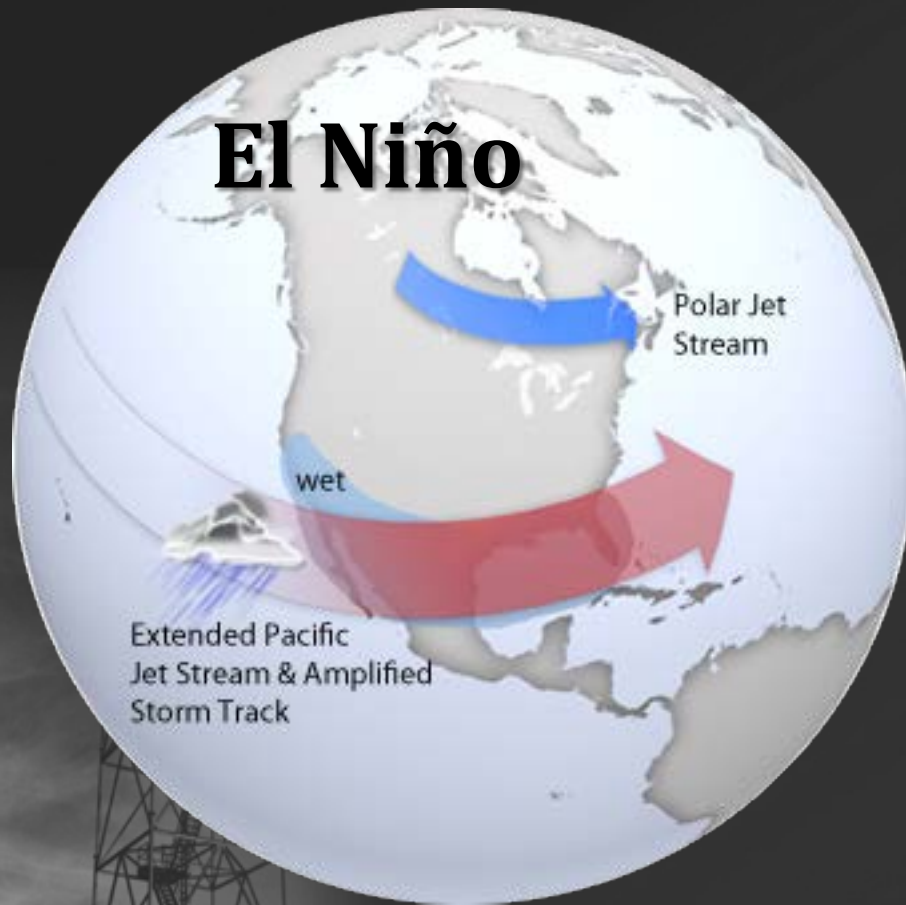
**Winter Outlook
2014-2015**



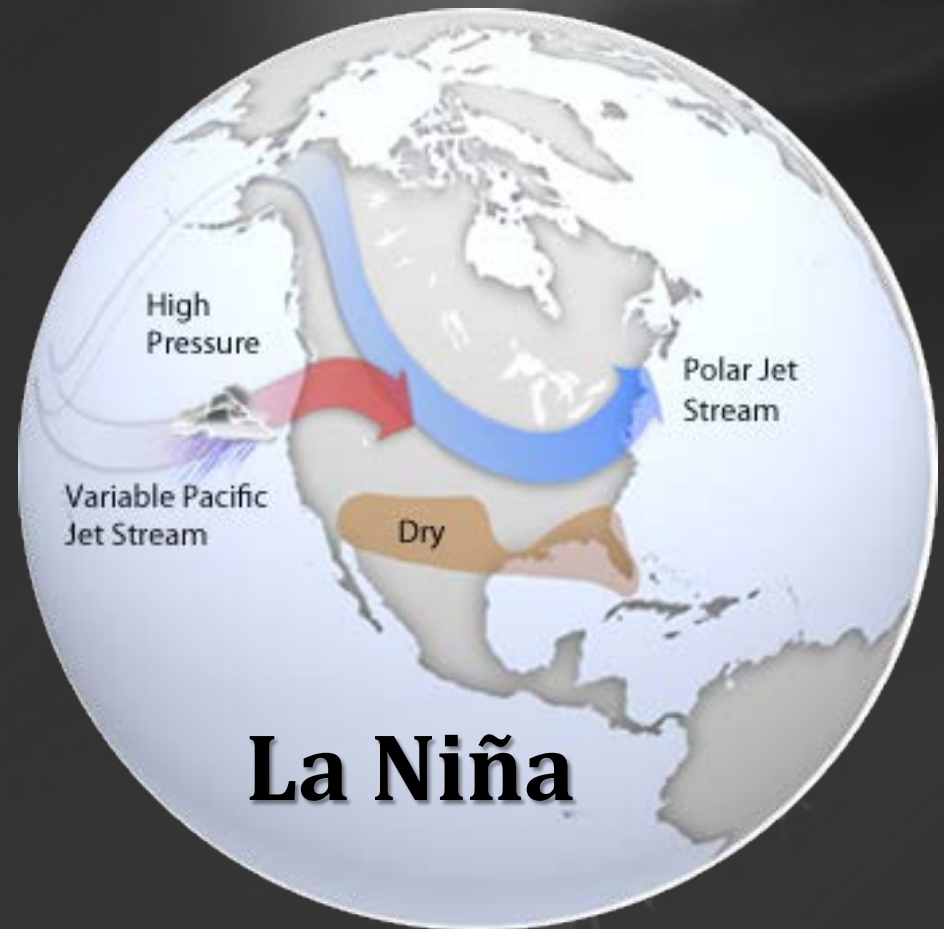


El Niño vs. La Niña

El Niño



La Niña



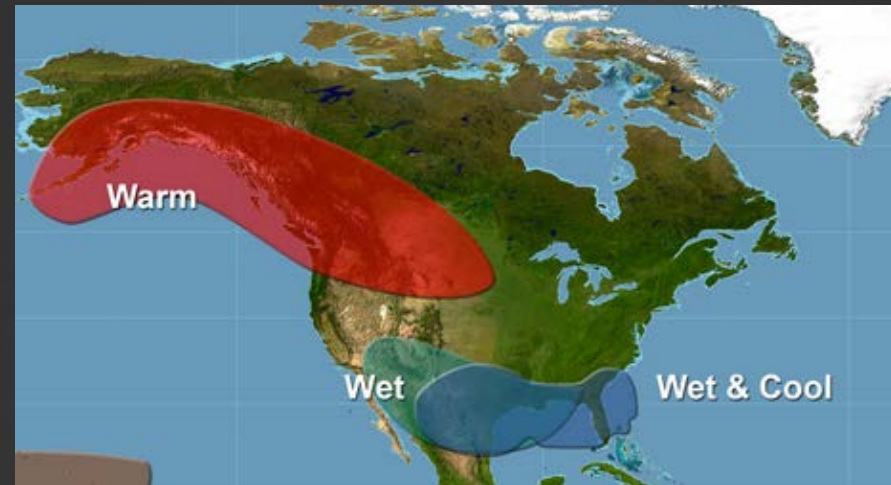
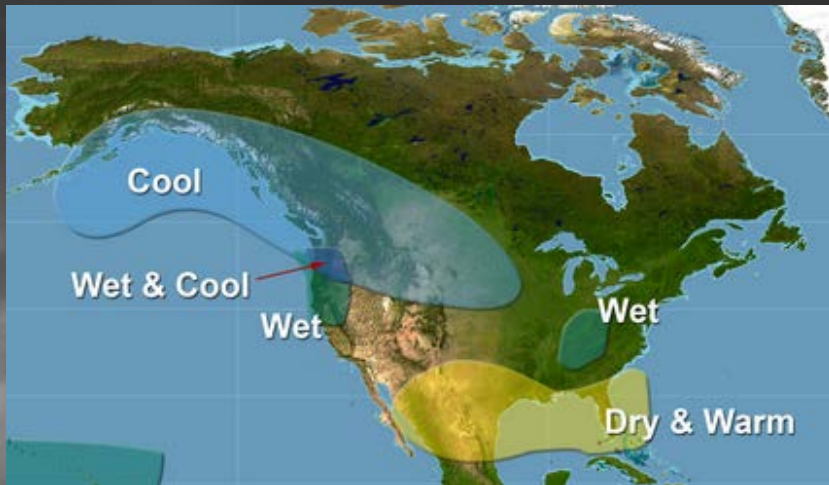
El Niño vs. La Niña Weather Patterns

La Niña

- Cooler than average waters in the central and eastern tropical Pacific
- Cooler temperatures with an increase in precipitation.

El Niño

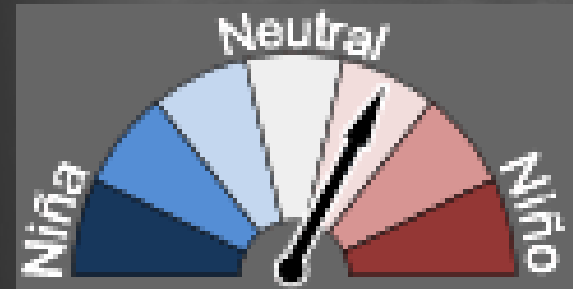
- Warmer than average waters in the central and eastern tropical Pacific
- Warmer temperatures and a decrease in precipitation



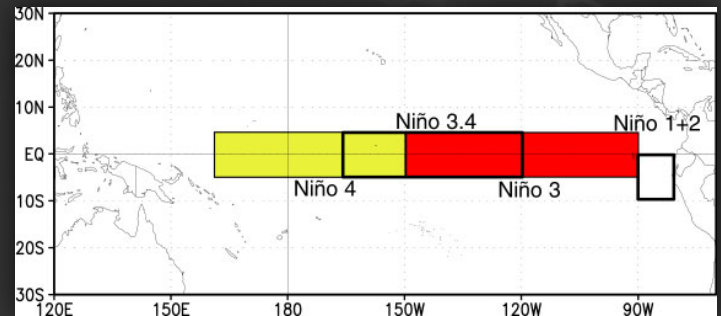
Winter Conditions

ENSO Status

- Neutral conditions
- Neutral conditions since Autumn 2012
- **→ Expected to transition to weak El Niño**

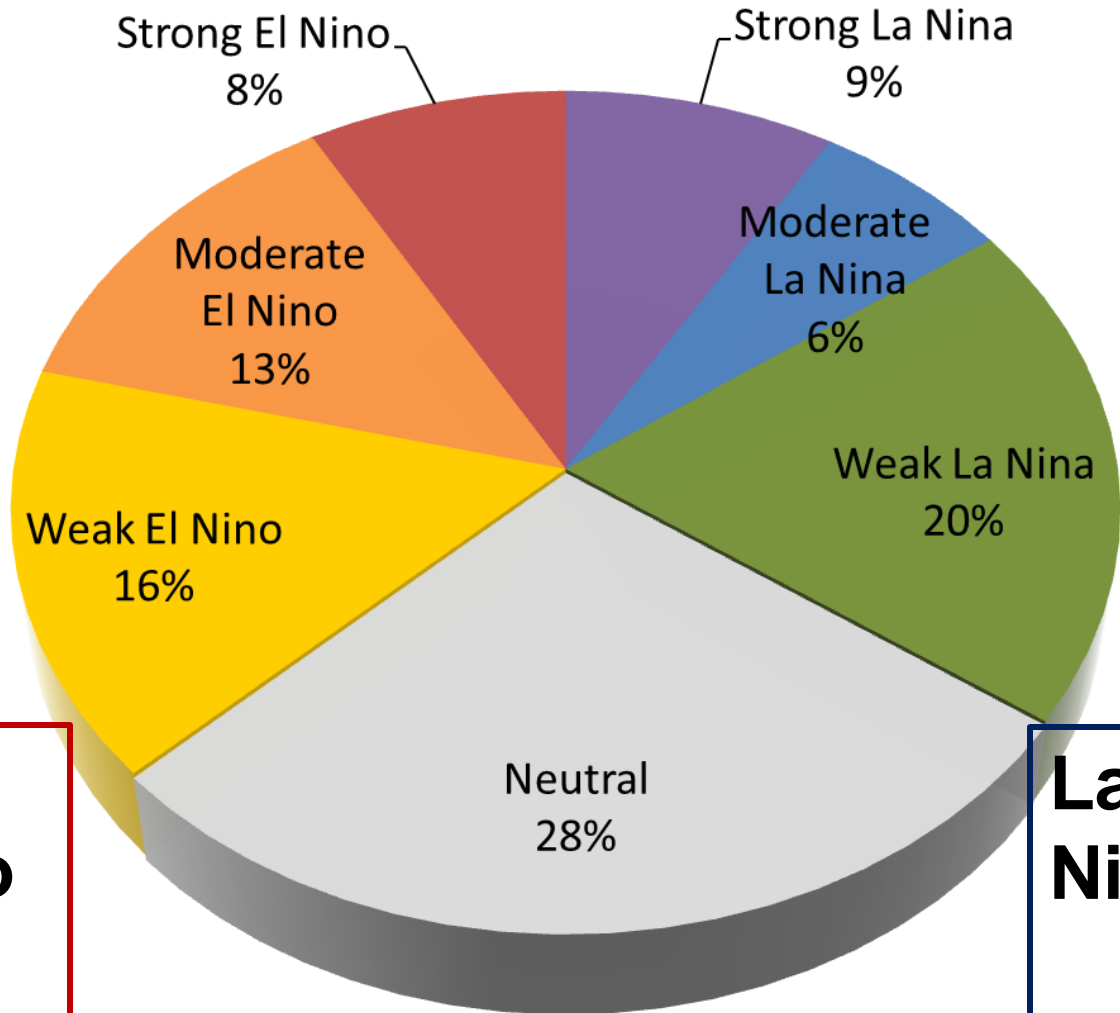


Map showing NINO regions in Equatorial Pacific





ENSO Occurrence



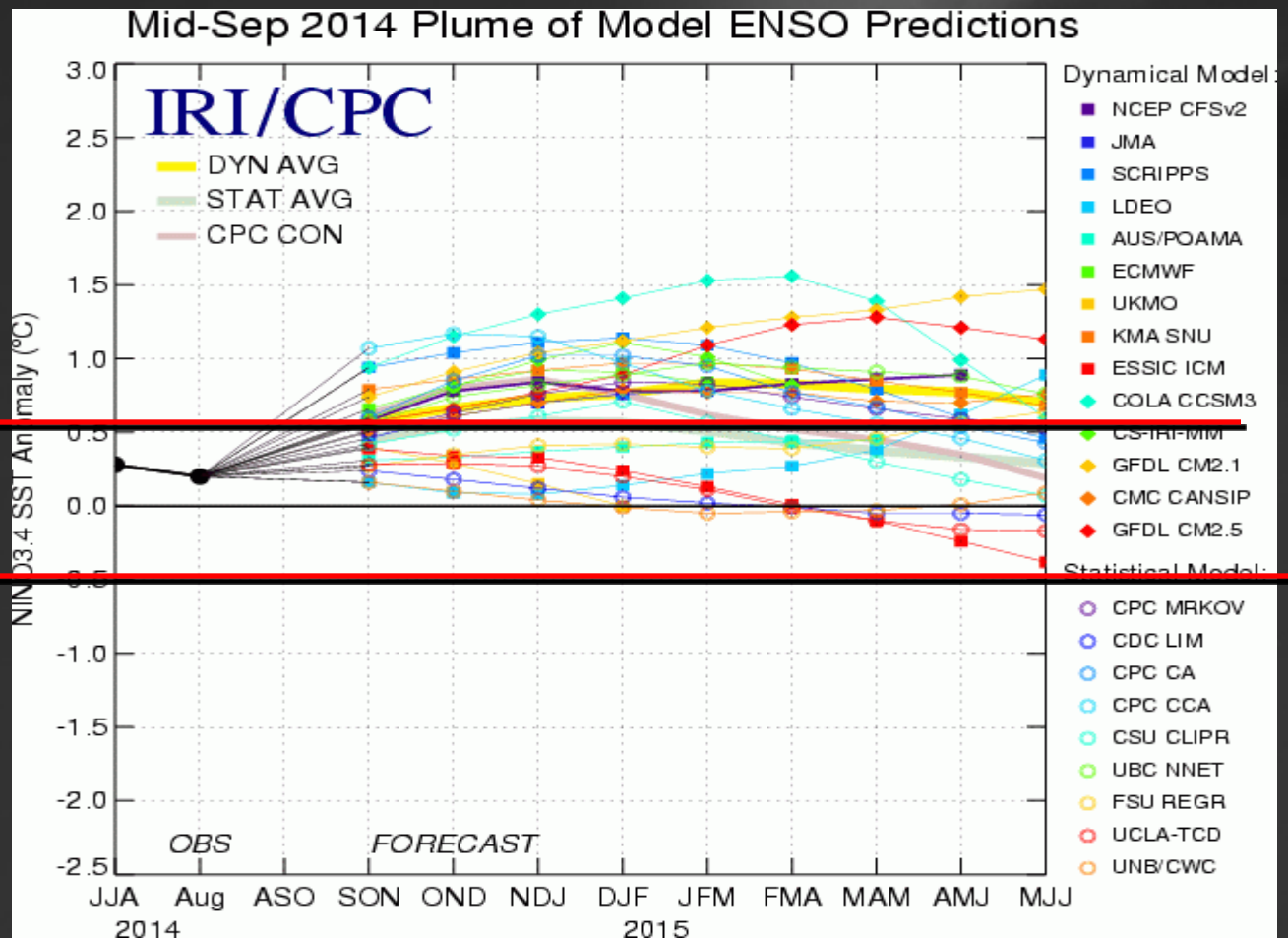
El-Niño
37%

La-Niña
35%



Climate Model Predictions

Climate models predict a weak El-Niño will develop in the Oct-Dec 2014 time frame and persist into the early winter of 2015



El Niño

ENSO-neutral

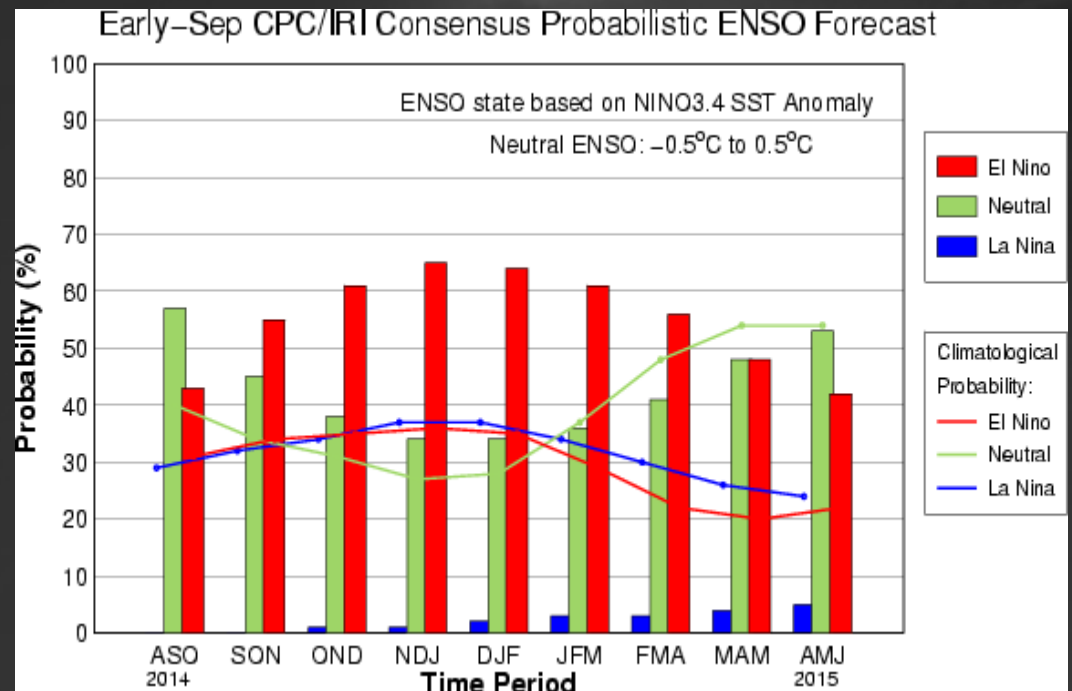
La Niña



ENSO Projections

- **Neutral** conditions currently
- **Forecast is for weak El-Nino** to develop later this fall
- The chance of El-Niño is at 60-65%

Climate Prediction Center / International
Research Institute for Climate and Society
Consensus Probabilistic ENSO Forecast



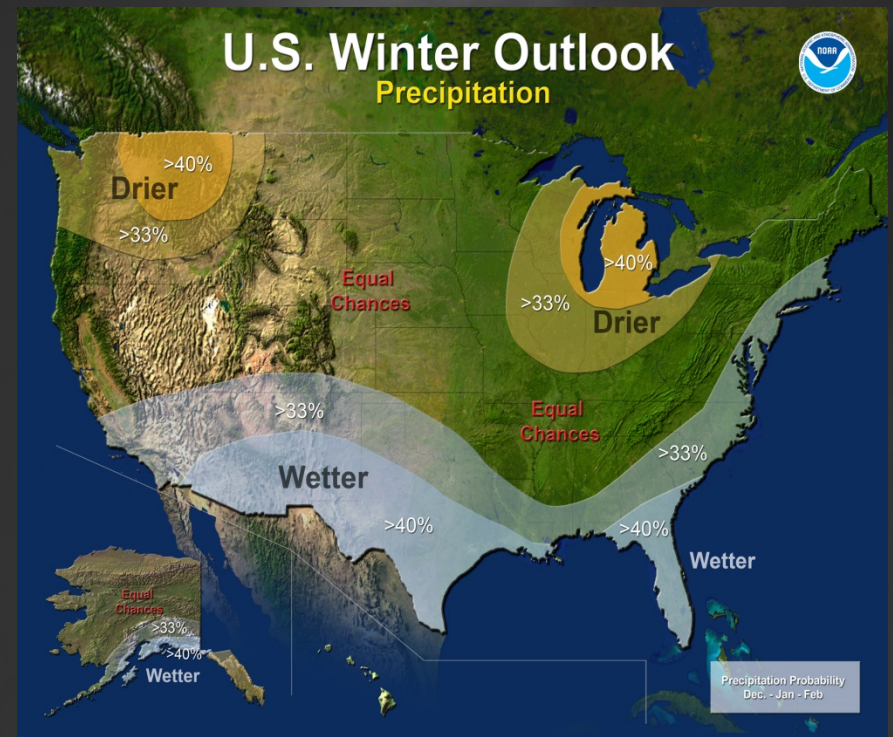
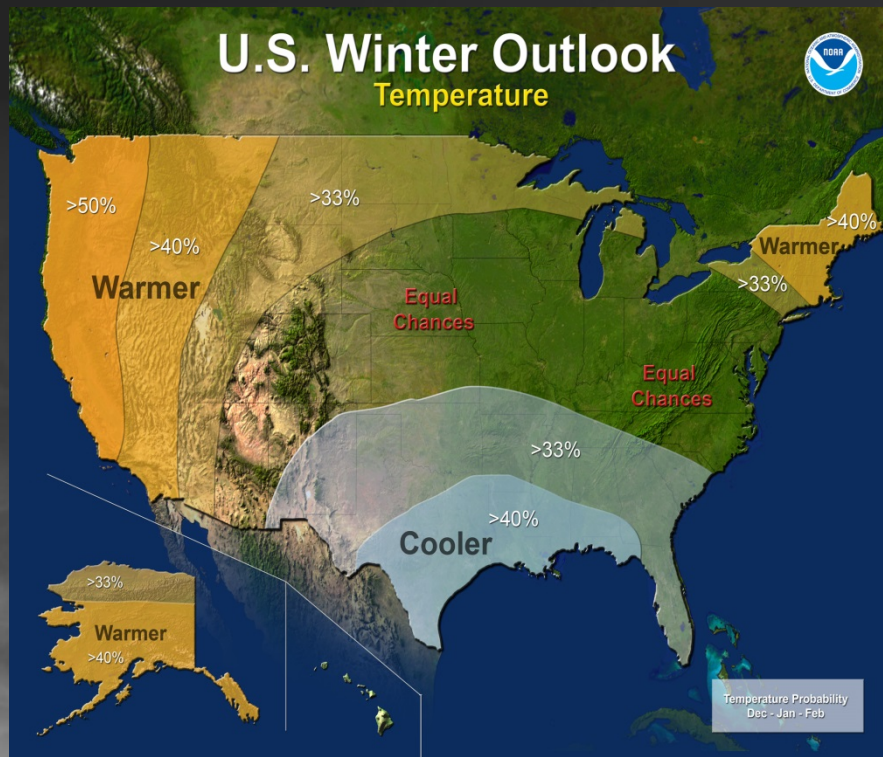


Winter Outlook

Dec 2014 – Feb 2015

Temperature

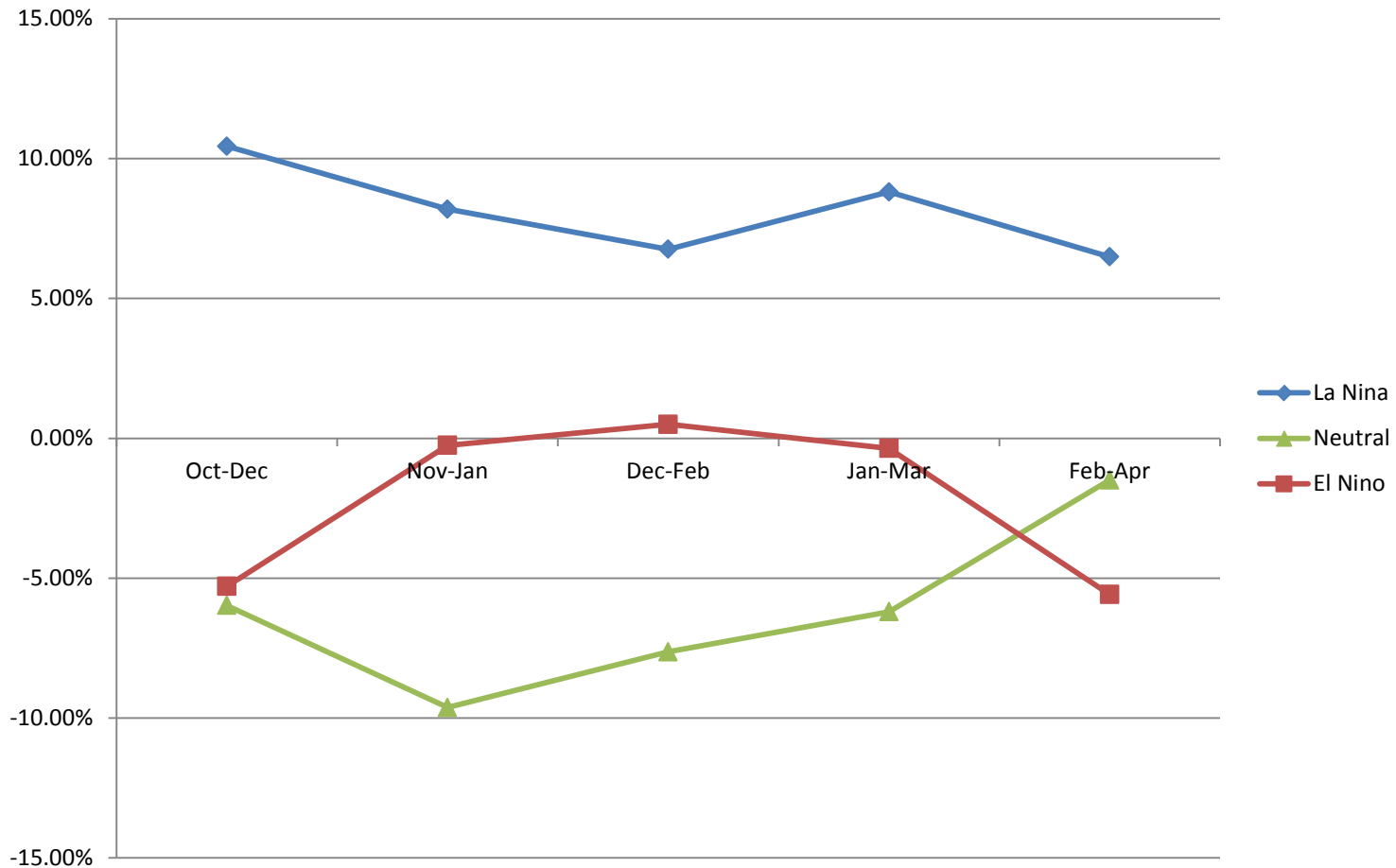
Precipitation





Willamette Valley Precipitation

Willamette Vly Precipitation Departure from Average for 1950-2012 (%)





In Summary

- **ENSO Neutral conditions continue**
- **Chance of El Niño developing is at 60-65% this winter**
- **Can expect this Fall/Winter to be (on average):**
 - **Temperature:** *40-50 % chance of above average*
 - **Precipitation:** *30 % chance of below average*
 - **Snowpack:** *Likely below average*
- *As always, be prepared for the any type of extreme weather Mother Nature sends our way in Oregon this winter!*



Questions?

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503-326-2340 x223

