# Appendix E. November 2 Information

## Contents

Warnings

- NWS Pendleton, Wind Advisory, 11:37 am, updated 1:38 pm
- Hanford Weather Station, Adverse Weather Advisory, November 1, 2013

Event Narrative: NOAA Storm Event Database – November 2

Meteorological Data

- BKEN, 5-minute data, November 2
- BPHOR, 5-minute data, November 2
- BPKEN, BPHOR hourly wind data, November 2
- Hanford Meteorological Data for November 2013
- Pasco Airport Data, November 2, 2013

Monitoring Data

- KENMETA, Hourly data, November 2, 2013
- KENMETA, 1-minute data, 11/2/2013

Ecology Burn Decision

- Zone Map
- Daily Burn Decision – 11/2/2013

Media Reports

- Tri-City Herald.com – November 2, 2013 – High winds cause damage throughout Mid-Columbia
- Tri-City Herald – Sunday, November 3, 2013 – Wind whips Mid-Columbia
Warnings

NWS Pendleton, Wind Advisory, 11:37 am, updated 1:38 pm
URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PENDLETON OR
1137 AM PDT SAT NOV 2 2013

...VERY WINDY TODAY...

. A STRONG COLD FRONT WILL MOVE THROUGH THE AREA TODAY. THIS FRONT
WILL CAUSE SOUTHWEST WINDS TO INCREASE CREATING VERY WINDY
CONDITIONS THIS AFTERNOON AND EVENING.

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT THIS EVENING.

* TIMING: WINDS ARE INCREASING ACROSS THE REGION LATE THIS
MORNING. STRONG WINDS WILL PERSIST THROUGH THE AFTERNOON INTO THE
EVENING.

* WINDS: SOUTHWEST TO WEST 30 TO 40 MPH WITH GUSTS TO 50 MPH.

* IMPACTS: GUSTY WINDS COULD MAKE TRAVEL ON AREA HIGHWAYS
DIFFICULT. MINOR PROPERTY AND TREE DAMAGE WILL ALSO BE
POSSIBLE.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY IS ISSUED WHEN SUSTAINED WINDS ARE FORECAST
BETWEEN 30 AND 39 MPH OR GUSTS REACHING FROM 45 TO 57 MPH. WINDS
OF THESE MAGNITUDES CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR
HIGH PROFILE VEHICLES. MINOR PROPERTY DAMAGE MAY ALSO OCCUR, FOR
ADDITIONAL WEATHER INFORMATION...CHECK OUR WEB SITE AT
WWW.MATHER.GOV/PENDLETON.
Hazardous Weather Outlook

HAZARDOUS WEATHER OUTLOOK...UPDATED
NATIONAL WEATHER SERVICE PENDLETON OR
130 PM PDT SAT NOV 2 2013

OR041-042-044-507-508-WA2024-026>029-521-030600-
EASTERN COLUMBIA RIVER GORGE OF OREGON-NORTH CENTRAL OREGON-
LOWER COLUMBIA BASIN OF OREGON-
FOOTHILLS OF THE NORTHERN BLUE MOUNTAINS OF OREGON-
FOOTHILLS OF THE SOUTHERN BLUE MOUNTAINS OF OREGON-
EASTERN COLUMBIA RIVER GORGE OF WASHINGTON-KITTITAS VALLEY-
YAKIMA VALLEY-LOWER COLUMBIA BASIN OF WASHINGTON-
FOOTHILLS OF THE BLUE MOUNTAINS OF WASHINGTON-SIMCOE HIGHLANDS-
130 PM PDT SAT NOV 2 2013

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF CENTRAL
OREGON...NORTH CENTRAL OREGON...NORTHEAST OREGON...CENTRAL
WASHINGTON...SOUTHWEST WASHINGTON...SOUTH CENTRAL WASHINGTON AND
SOUTHEAST WASHINGTON.

.DAY ONE...THIS AFTERNOON AND TONIGHT

A STRONG COLD FRONT HAS MOVED THROUGH THE REGION TODAY. SOUTHWEST
WINDS OF 20-40 MPH WITH GUSTS TO 50 MPH WILL CONTINUE INTO THE
EVENING.

.DAYS TWO THROUGH SEVEN...SUNDAY THROUGH FRIDAY

COOLER, SHOWERY CONDITIONS ARE EXPECTED SUNDAY WITH SUSTAINED WINDS
CONTINUING IN THE 20 TO 30 MPH RANGE. SOME SNOW ACCUMULATIONS CAN
BE EXPECTED AT LOCATIONS ABOVE 3000 FEET, ESPECIALLY IN THE
MOUNTAINS. UNSETTLED WEATHER CONDITIONS WILL CONTINUE THROUGH NEXT
WEEK.

$$
Hanford Weather Station, Adverse Weather Advisory, November 1, 2013

Robin Priddy

From: Hanford Weather Station <Hanford_Weather_Station@rl.gov>
Sent: Friday, November 01, 2013 5:40 PM
Subject: SPECIAL ADVERSE WEATHER ADVISORY - HANFORD SITE
Importance: High

ADVERSE WEATHER ADVISORY FOR HANFORD SITE
This advisory is for the official use of the Department of Energy and its Hanford Site Contractors.

Date: Friday, November 1, 2013
Time Period: 1100 – 2200 PDT Saturday

Message:
A strong cold front will move across the region late Saturday morning. Winds of 20-30 mph with gusts 40-50 mph are expected to develop by noon and continue into the evening hours.

Strong winds may pick up particulates (dust/ash) from several different sources (e.g., agricultural activities, regional range fires, etc). Persons with respiratory problems or allergies may wish to discuss their individual situations with their physicians/allergy specialists to determine the best precautions during wind/dust events.

This advisory is for the official use of the Department of Energy and its Hanford Site Contractors. Other use is not authorized.

Duty Forecaster Hours
10:00 pm Sunday – 6:00 pm Friday (7:00 pm - 10:00 pm daily not staffed)
6:00 am - 2:00 pm Weekends and Holidays

email: hms@rl.gov
http://www.hanford.gov/hms
(509) 373-2716 Forecaster
(509) 373-2875 Recorded Forecast
Hanford Meteorological Station (HMS)
Event Narrative: NOAA Storm Event Database – November 2

http://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=477878
National Climatic Data Center Storm Events Database

Event Details

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Privacy Policy | FOIA | Information Quality | Disclaimer | Contact Us
## Meteorological Data

**BKEN, 5-minute data, November 2**

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**Data provided by: Bonneville Power Administration**

**Contact MesoWest**
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**MesoWest Disclaimer**

Data provided by: Bonneville Power Administration
# BPKEN, BPHOR hourly wind data, November 2

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# hours> 25 mph    19     7
Hanford Meteorological Data for November 2013

Daily Temperatures - November 2013
Hanford Meteorological Station

Degree F

Day of the Month

Record Max  Record Min  Normal Max  Normal Min  Observed Max  Observed Min
Narrative Summary – November 2013

The average temperature for November 2013 was below normal, averaging 38.4°F, 2.1° below normal (40.5°F). The warmest November (1990) averaged 46.5°F, while the coolest (1985) averaged 24.8°F. There were no temperature records established during November 2013:

Precipitation for November 2013 totaled 0.36 inches, 38% of normal (0.95 inch). The wettest November (1996) received 2.67 inches; and the driest (1976) received only a trace. There was no snow recorded during November 2013, compared to a normal of 2.0 inches. The snowiest November on record (1985) received 18.3 inches. Total precipitation for 2013 (through November) is 5.31 inches, 89% of normal (5.94 inches).

The average wind speed for November 2013 was 7.1 miles per hour (mph), which was 0.4 mph above normal (6.7 mph). The windiest November on record (1990) averaged 10.0 mph, while the November with the lightest winds (1936) averaged 2.9 mph. The peak gust for November 2013 was 61 mph on November 2. The record wind gust for November was 67 mph in 1993.

Autumn 2013 (September, October and November) averaged 53.4°F, which is 0.1°F above normal (53.3°F) for the autumn months. The warmest autumn (1990) averaged 57.1°F; while the coolest (1985) averaged 44.5°F. Precipitation for autumn 2013 totaled 1.16 inches, 66% of normal (1.75 inches). The wettest autumn (1973) received 4.79 inches; and the driest (1976) received only 0.04 inch.

The monthly climatological data summaries, as well as other information, are available on the Internet. Address: http://www.hanford.gov/HMS

Ken Burk  373-3215
HMS Staff  373-2716

Note: The data in this summary pertains specifically to the Hanford Meteorology Station (HMS), which is located approximately 25 miles northwest of Richland, WA. No attempt should be made to infer meteorological conditions at other locations from these data.
### Climatological Data

#### Hanford Meteorology Station
- Latitude: 46°13'45" N
- Longitude: 119°15'45" W
- Elevation: 793 Feet

#### Monthly Data: November 2013

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#### Notes:
1. Unless otherwise specified, the daily summary period is from midnight to midnight Pacific Standard Time.
2. "°F" in Column 2 denotes a temperature.
3. The average is calculated over the month.

#### Additional Data:
- **MONTHLY TOTAL:** 0.30 in
- **AVERAGE:** 0.30 in
- **GREATEST:** 0.30 in
- **LOWEST:** 0.00 in
- **NUMBERS OF DAYS WITH:**
  - **TRACE OR MORE:** 0
  - **0.01 OR MORE:** 0
- **BARIOMETRIC PRESSURE (IN.):**
  - **AVERAGE:** 29.57 in
  - **GREATEST:** 29.67 in
  - **LOWEST:** 29.45 in
- **LOWEST 12 CON. 22:**
  - **SOLAR RADIATION (KALGAYLE):**
    - **TOTAL:** 133.16 in
  - **GREATEST:** 132.7 in
  - **LOWEST:** 131.5 in
- **MAXIMUM 32 OR BELOW:**
  - **AVERAGE:** 32.1 in
  - **GREATEST:** 32.6 in
  - **LOWEST:** 32.0 in
- **MINIMUM 0 OR BELOW:**
  - **AVERAGE:** 4.6 in
  - **GREATEST:** 4.8 in
  - **LOWEST:** 4.4 in
- **RELATIVE HUMIDITY (%):**
  - **AVERAGE:** 71.5%
  - **GREATEST:** 72.0%
  - **LOWEST:** 69.0%
- **SEASONAL TOTAL:**
  - **AVERAGE:** 1247 in
  - **GREATEST:** 1327 in
  - **LOWEST:** 1100 in

#### Kennewick 2013 Demonstration
- Appendix E, November 2, 2013
### Past Weather Conditions for KPSC

Observations prior to selected time: November 02, 2013 - 22:00 GMT

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</tr>
<tr>
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<tr>
<td>Wet Bulb Temperature</td>
</tr>
<tr>
<td>Relative Humidity</td>
</tr>
<tr>
<td>Wind Speed</td>
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<tr>
<td>Wind Gust</td>
</tr>
<tr>
<td>Pressure</td>
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<tr>
<td>Sea level pressure</td>
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<td>1500 m Pressure</td>
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<td>Ceiling</td>
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#### Precipitation variable accumulated

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<thead>
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<tr>
<td>Precipitation 1 hr</td>
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</tr>
<tr>
<td>Precipitation 6 hr</td>
<td>0.141&quot;</td>
</tr>
</tbody>
</table>

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For Questions or Comments about this page at MesoWest contact mesowest@ltem.utah.edu

[http://mesowest.utah.edu/cgi-bin/droman/meso_base.cgi?stn=KPSC&year1=2013&month1=11&day1=02&hour1=22&past=1&time=GMT](http://mesowest.utah.edu/cgi-bin/droman/meso_base.cgi?stn=KPSC&year1=2013&month1=11&day1=02&hour1=22&past=1&time=GMT)

(Greenwich Mean Time is 8 hours ahead of PST)
November Event Summary

Mean November temperatures were near to below normal around the state, and precipitation was uniformly much below normal. While this past November did not see records, it did rank in the top ten driest Novembers for several stations around the state. Table 1 lists some examples, showing the precipitation amount for November 2013, the ranking, the record low precipitation and the year, as well as the year that measurements began at the station. These dry conditions in addition to the extremely dry October conditions means that we are behind for precipitation and snow totals in the mountains for the 2014 water year.

The first weekend of the month (Nov 2-3) was eventful weather-wise; there was mountain snow, gusty winds (e.g., 59 mph at SeaTac Airport; 66 mph at Whidbey Island Naval Air Station; 46 mph at Spokane), power outages, large wave swells, and precipitation with some snow in eastern WA. That first weekend, however, did not portend how the rest of November would play out. There were only two other times during the month with stormy weather to note here: Nov 7 and Nov 18. There was heavy rain, mountain snow, and gusty coastal winds (between 46 and 52 mph) beginning on Nov 8 into Nov 7. Heavy rain fell state-wide on Nov 18 into the 19th (Figure 1), even prompting a few flood warnings for western WA - the Skokomish River near Port Orchard and Grays River near Roche. After this event, the weather pattern shifted to a blocking high pressure that resulted in dry and cold conditions. Low temperatures were in the teens and single digits in eastern WA on Nov 21, while lows dropped into the 20s and 30s for western WA. Goldendale recorded a record daily low temperature of 10°F on Nov 22. There were burn

<table>
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<tr>
<th>Station</th>
<th>Nov 2013 Precipitation</th>
<th>Rank</th>
<th>Record Low Precip Year</th>
<th>Records Began</th>
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<td>Hoquiam</td>
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<td>7</td>
<td>5.61”; 1976</td>
<td>1963</td>
</tr>
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<td>Quillayute</td>
<td>7.92”</td>
<td>7</td>
<td>4.40”; 1976</td>
<td>1966</td>
</tr>
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<td>Centralia</td>
<td>2.64”</td>
<td>9</td>
<td>0.65”; 1936</td>
<td>1853</td>
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</tbody>
</table>

Table 1: November 2013 precipitation, the ranking (driest to wettest), the record driest and year of occurrence, and the year that records began at each station.
bans and air stagnation advisories during this period in the interest of preserving air quality. There were some mornings with heavy fog, but it was nowhere near as extensive as in October. This dry period had the unfortunate consequence of resulting in less-than-adequate mountain snow for skiing; most of the ski resorts in WA State were closed over the Thanksgiving holiday.

Figure 1: 24-hr precipitation totals from the Community, Collaborative, Rain, Hail, and Snow (CoCoRaHS) network on the morning of November 19, 2013 (between 7 and 9 am).

Causes and Examples of Landslides in WA

A message from the State Climatologist

Much of Washington state features steep terrain and unconsolidated soils, which means that landslides are a regular part of the landscape. And since many of these slides are associated with heavy rainfall, they occur more often in the winter, with plenty of exceptions. Of course they can also be triggered by a variety of other agents such as earthquakes, volcanic eruptions, water level changes, and human activities; here we focus on landslides associated with the weather. The purpose of this piece is to provide a brief discussion of their causes and relevant factors, summaries of some recent notable events, and some links for more information.
The landslides caused by intense rainfall tend to be shallow, fast-moving, and accompanied by debris, which makes them particularly hazardous. They often occur in locations where porous soils overlie more impermeable layers of clay or bedrock. The water that percolates down through this porous layer serves to float the sand and gravel particles above the interface with the lower layer. This reduces the binding between the layers, and if it gets low enough, the upper layer slumps under the force of gravity. It bears emphasizing that the threat of landslides is not related just to the steepness of the slope but also factors such as composition of the soil and landform characteristics such as bedrock hollows, many of which can be hidden. Our actions can increase (or decrease) the hazard. The removal of mature vegetation is an obvious example, but stability can also be compromised due to diversion of extra water onto a hillside, and by excavation, particularly at the toe of a slope.

Landslides or mudslides have been included in 10 of the Major Disaster Declarations by the federal government for WA since 1989. There are a few specific examples from the past couple of decades that are especially memorable. The holiday season of 1996-97 in the Puget Sound region is remembered for its one-two punch of snow followed by heavy rain. This caused a host of problems including the collapse of roofs and marinas, flooding, and slides resulting in millions of dollars of damage and at least 4 fatalities, with locations at the bases of steep coastal bluffs being particularly hard-hit. An intense and unusually slow-moving storm in December 2007 produced not just an extended period of strong winds on the coast but also record-setting rainfall in southwestern WA, with as much as 14.35 inches recorded in a 24-hour period in the watershed of the Chehalis River. Landslides numbering at least in the hundreds were the consequence with numerous road closures (Fig. 2). The impacts of clear-cutting on some of the more major slides are still being sorted out. The wait was not long for another severe event that affected much of the state. January 2009 brought warm, drenching rains on the heels of wintry weather during late December 2008. An outcome was landslides from Cowlitz County in the south to Whatcom County in the north, with most of the damage of this sort in the Cascade Mountains. This event resembled that of 1996-97 in that it featured rain on snow at the locations of many of the slides. Perhaps snow on the ground is not just an additional source of water, but through its weight can also have a significant influence on the stability of slopes, especially ones near the threshold of failure.

Figure 2: The Pe Ell landslide of December 5, 2007. This slide blocked State Route 6 and damaged three structures (from the Department of Natural Resources: http://www.dnr.wa.gov/ResearchScience/Topics/GeologicHazardsMapping/Pages/landslides_dec07storm.aspx).
While the emphasis here is on the fast-moving landslides usually associated with rain, it is noted that these are not restricted to the west side of Washington state. The Okanogan Highlands extending from the North Cascades eastward to the Selkirk Mountains is one of the "landscape provinces" of WA. This region is subject to debris flows caused by thunderstorms, often in late spring through summer. Some of these have even produced damaging tsunamis on Lake Roosevelt behind Grand Coulee Dam. Our state is also subject to deep, slow-moving slides. A notable recent example of this sort is the Aldercrest-Belton landslide that occurred near Kelso from 1998 into 1999. It resulted in 137 homes being condemned (about $70 million in total damage). While it was not due to a single weather event, it is hypothesized that above-normal precipitation during the 5-4 years preceding the slide was an important contributing factor.

At the time of this writing (late November 2013), there have already been a few minor slides this wet season even though there has not been much in the way of floods (at least yet). There are a variety of resources available online for readers interested in landslides (e.g., Fig. 5), particularly materials posted by Department of Natural Resources such as the following: [http://www.dnr.wa.gov/Publications/geol_fall_landslides.pdf](http://www.dnr.wa.gov/Publications/geol_fall_landslides.pdf). The Department of Ecology also provides information, with a focus on Puget Sound ([http://www.ecy.wa.gov/programs/sea/landslides/maps/maps.html](http://www.ecy.wa.gov/programs/sea/landslides/maps/maps.html)). Two products that are still in development use indices to track landslide likelihood – one is an online hazard map based on recent rainfall from DNR ([https://fortress.wa.gov/dnr/landslidewarning/](https://fortress.wa.gov/dnr/landslidewarning/)) and the other compares conditions to a landslide threshold for the Seattle area from USGS ([http://landslides.usgs.gov/monitoring/Seattle/rtl/plot.php](http://landslides.usgs.gov/monitoring/Seattle/rtl/plot.php)). Both of these tools were developed in collaboration with the National Weather Service, which additionally provides Special Weather Statements regarding landslide threats beyond what these tools incorporate in the indices.

![Figure 3: Mapped landslides from the Washington Interactive Geologic Map (http://www.dnr.wa.gov/geologyportal).](http://www.dnr.wa.gov/)

Snowpack Summary

The snow water equivalent (SWE) for the Olympic Mountains and the Cascades is below normal as of December 2, 2015 (Figure 4). The dry October and November conditions combined with the relatively warm mountain conditions has resulted in a slow start to the 2013-14 snowpack. The Olympic and Lower Columbia basins are only at 42 and 43% of normal snow water equivalent. The Central Puget Sound, South Puget Sound, Central Columbia, and Upper Yakima are all also below normal (between 50 and 69% of normal). The North Puget Sound and Lower Yakima basins are doing better but are still tracking below normal, with 85 and 72% of normal SWE, respectively. Finally, the basins in eastern WA are off to a good start with near-normal SWE in the Upper Columbia, and above normal SWE in the Spokane and Lower Snake.

Figure 4: Snowpack (in terms of snow water equivalent) percent of normal for Washington as of December 2, 2015. Image is from the National Resources Conservation Service (NRCS).

http://climate.washington.edu
Climate Summary

Mean November temperature were near-normal across WA State, with a tendency towards colder than normal temperatures. The High Plains Regional Climate Center map shows areas of colder than normal temperature mostly in eastern (e.g., Pasco and Omak; Table 2) and southwestern (e.g., Centralia) WA. The rest of the state was generally within 1°F of normal, except for some of the higher elevations in the Cascade Mountains and in Quillayute (3.4°F above normal; Table 2). Similar to October, the mountains were generally above the temperature inversion and fog with warmer than normal temperatures during the period of stagnant weather in the latter part of the month.

As was the case during October, total November precipitation was much below normal statewide. The precipitation percent of normal ranged between 25 and 70% of normal for a majority of the state with Wenatchee and Pasco relative dry spots with 27 and 37% of normal precipitation, respectively. A few areas, namely the northern Puget Sound and northeastern WA, received between 70 and 90% of normal precipitation. Bellingham, for example, received 86% of normal November precipitation. Regarding snowfall, none fell in the western WA lowlands during November. Eastern WA saw some snow, and Spokane AP received about 42% of their average November snowfall.

![Image of temperature and precipitation maps]

November temperature (°F) departure from normal (top) and November precipitation, % of normal (bottom).
(High Plains Regional Climate Center [http://www.highplainsclimate.org]; relative to the 1981-2010 normal).
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<th>Snowfall (inches)</th>
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Table 2: November climate summaries for locations around Washington with a climate normal baseline of 1981-2010. Note that the Vancouver Pearson Airport and Seattle WFO 1981-2010 normals involved using surrounding stations in NCDC’s new normal release, as records for these stations began in 1998 and 1986, respectively.
Climate Outlook

The conditions in the equatorial Pacific Ocean are ENSO-neutral, according to the Climate Prediction Center (CPC); [http://www.cpc.ncep.noaa.gov/](http://www.cpc.ncep.noaa.gov/). Averaged over the last 4 weeks, sea-surface temperatures (SSTs) have been above normal in the western equatorial Pacific Ocean, and near-normal in the central to eastern equatorial Pacific. There is a consensus among the model predictions that near-neutral ENSO conditions will persist through the winter and spring 2014.

The CPC three-class outlook for December has increased chances of below normal (shaded blue) temperatures statewide. Cold air invaded the state during the first week of the month, and so far at least, this forecast looks pretty good. The outlook for December precipitation is a toss up: there are equal chances of above, equal to, or below normal precipitation statewide.

The three-month winter temperature and precipitation outlook for December-January-February (DJF) does not provide much to go on one way or another. The CPC outlook is indicating equal chances (50%) of below, equal to, or above normal temperatures and precipitation for the period.

![December outlook for temperature (left) and precipitation (right) from the CPC.](image)

![December-January-February outlook for temperature (left) and precipitation (right) from the CPC.](image)
## Monitoring Data

### KENMETA, Hourly data, November 2, 2013

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**Periodically:** 02/11/2013 00:00-02/11/2013 23:00  
**Type:** AVG 1 Hr. [1 Hr.]

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Daily Burn Decision – 11/2/2013

Burn call 11/2

Decision For: Sunday, November 02, 2014

Daily Notes: The Eastern Regional Office (ERO) in Spokane is responsible for the following counties: Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Stevens, Walla Walla and Whitman. Call (509) 329-3400 for questions concerning these counties.

ERO listserv: http://listserv.wa.gov/cgi-bin/wa?SUBED1=ag-burn-decision-ero&A=1

The Central Regional Office (CRO) in Yakima is responsible for the following counties: Chelan, Douglas, Kittitas, Klickitat and Okanogan. Call (509) 575-2490 for questions concerning these counties.
CRO listserv: http://listserv.wa.gov/cgi-bin/wa?SUBED1=BURN-DECISION-CRO&A=1

The three remaining counties (Benton, Spokane and Yakima) have local air authorities. See the listings below for phone numbers.

Winds are indicated by direction the wind is coming from (i.e.: if you face in the direction listed, the wind would be blowing in your face)

Air authorities: http://www.ecy.wa.gov/programs/air/local.html
Ag & outdoor burning questions in:
Spokane (509) 477-4727, Benton (509) 783-1304 or Yakima (509) 834-2050 (all local air authorities)
Okanogan, Chelan, Douglas, Kittitas, or Klickitat: (509) 575-2490 (Ecology, Yakima office)
Eastern Washington counties not listed: (509) 329-3400 (Ecology, Spokane office)

**FORECAST:** Expect limited burning tomorrow

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<td>Zone 06</td>
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<td>Zone 07</td>
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<td>Zone 08</td>
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<tr>
<td>Not routinely called (does not have mailbox, ag burning in this area is almost exclusively on Indian lands)</td>
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<tr>
<td>Ferry</td>
<td>Start at 10:00 AM Fires out by 3:00 PM winds SW am pm</td>
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Media Reports

Tri-City Herald.com – November 2, 2013 – High winds cause damage throughout Mid-Columbia.

Mid-Columbia — Strong winds wreaked havoc Saturday across the Mid-Columbia, tipping over a semi-truck, uprooting trees and knocking down the front section of an elementary school under construction.

Blowing dust caused low visibility on many roadways until the heart of the storm passed after 5 p.m.

At mid-day, wind gusts of 60 mph were recorded in Benton City, 58 mph at Hanford and 56 mph at Vista Field in Kennewick.

The National Weather Service out of Pendleton said the winds would “diminish a bit overnight,” but to still expect at least breezy conditions in some areas. Sunday is expected to be mostly cloudy with rain showers and cooler temperatures.

Washington State Patrol Troopers and Benton Fire District 1 crews were called about 2 p.m. Saturday for a tractor trailer that was blown over onto its side on Highway 397, east of Olympia Street in Finley. Fuel spilled onto the highway from the truck, but reportedly was contained to the road.

The semi was pulled to the shoulder and ditch area, and crews planned to wait for the winds to die down before uprighting it, reported District 1 Capt. Devin Helland.

The Department of Transportation closed the roadway for a couple of hours.

In west Pasco, part of the structure for a new elementary school fell down.

The school, which has yet to be named, has been under construction since June near the intersection of Powerline Road and Road 52. It is scheduled to be open for the 2014-15 school year and is being paid for by a $46.8 million bond approved by voters in February.

On Highway 240 between Richland and Vantage, troopers were leading motorists through thick drifts of tumbleweeds.

One driver told the Herald that blowing tumbleweeds were causing road hazards along the bypass highway, and said caution was recommended if traveling on that road. The driver also reported that troopers said Department of Transportation workers would be plowing the tumbleweeds.
The State Patrol restricted all mobile homes from traveling on Interstate 82 between milepost 82 near Prosser and milepost 131 near the Oregon border. The restriction was to be in place until the high winds subsided.

Law enforcement officers also responded to numerous calls of trees and power lines down, blocking roadways. Two trees blocked traffic on Fruitland Street, between Columbia Street and Canal Drive.

Check back for updates.

Readers are encouraged to send in photos of wind-related damage to be shared in an online gallery. Submit them at www.tricityherald.com/sendphoto.


Tri-City Herald
Wind whips Mid-Columbia

School damaged, many trees down as blustery conditions strike region

Airborne tumbleweeds become driving hazards

Kristin M. Kraemer
Herald Staff Writer

Strong winds wreaked havoc Saturday across the Mid-Columbia, tipping over at least one semi-truck, uprooting trees and knocking down the front section of an elementary school under construction.

Blowing dust caused low visibility on many roadways until the heart of the storm passed after 6 p.m.

At mid-day, wind gusts of 60 mph were recorded in Benton City, 68 mph at Hermiston and 55 mph at Veta Field in Kennewick.

The National Weather Service out of Pendleton said the winds would "diminish a lot overnight," but to still expect at least breezy conditions in some areas. Sunday is expected to be mostly cloudy with rain showers and cooler temperatures.

Washington State Patrol Troopers and Benton Fire District 1 crews were called about 2 p.m. Saturday for a tractor trailer that was blown over onto its side on Highway 897, east of Olympia Street in Finley. Paul spilled onto the highway from the truck, but reportedly was contained to the road.

The semi was pulled to the shoulder and ditch area, and crews planned to wait for the winds to die down before uprighting it, reported District 1 Capt. Devon Hjel-land.

The Department of Transportation closed the roadway for a couple hours. In west Pasco, part of the structure for a new elementary school fell down.

The school, which has yet to be named, has been under construction since June near the intersection of Powerline Road and Road 59. It is scheduled to be open for the 2014-15 school year and is being paid for by a $46.8 million bond approved by voters in February.

On Highway 240 between Richland and Vantage, troopers were warning motorists through thick drifts of tumbleweeds.

One driver told the Herald that blowing tumbleweeds were causing road hazards along the by-pass highway, and said caution was recommended if traveling on that road. The driver also reported that troopers said Department of Transportation
winds | Trees, power lines fall

FROM PAGE A1

workers would be plowing the tumbleweeds.

The State Patrol restricted all mobile homes from traveling on Interstate 82 between milepost 82 near Prosser and milepost 181 near the Oregon border. The restriction was to be in place until the high winds subsided.

Law enforcement officers also responded to numerous calls of trees and power lines down, blocking roadways. Two trees blocked traffic on Fruitland Street, between Columbia Street and Canal Drive.

Kristin M. Kraemer: 582-1531; kkraemer@tricityherald.com; Twitter: @KristinMKraemer