

Appendix D. October 28 Information

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Warnings

NWS Area Forecast Discussion, October 28 - 2:40 am PDT

The screenshot shows a web browser window displaying the National Weather Service's Area Forecast Discussion page. The browser's address bar shows the URL: www.wrh.noaa.gov/total_forecast/getprod.php?afos=xxxafdpt&wfo=ptd&version=9. The page features a blue header with navigation links for Home, News, Organization, and FAQ, along with a search bar and social media sharing options. A left sidebar contains a menu of weather-related services such as Local Forecast, Current Hazards, and Observations. The main content area is titled "Area Forecast Discussion" and includes a metadata line: "FXUS66 KPDT 280939 AFDPDT". The discussion text, dated 240 AM PDT MON OCT 28 2013, describes a weather system with an upper level low and moisture wrapping around it, leading to precipitation in the forecast area. It also mentions a winter weather advisory for zone 506 and discusses wind advisories for zones 27, 28, and 521.

Area Forecast Discussion

• Go Back • Print Friendly • Version: 9 Newer Older Jump To: • Font: A A A A •

• Turn Dictionary Off • Product FAQ •

This is NOT the current version and may no longer be valid.

FXUS66 KPDT 280939
AFDPDT

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE PENDLETON OR
240 AM PDT MON OCT 28 2013

.SHORT TERM... TODAY THROUGH WEDNESDAY...THE UPPER LEVEL LOW THAT PASSED OVER US SUNDAY IS NOW SITUATED OVER THE WESTERN GREAT BASIN. MOISTURE WRAPPING AROUND THIS LOW IS COMING BACK AT US FOR THE SOUTH WHICH WILL KEEP PRECIPITATION OCCURRING THROUGH THIS MORNING OVER THE EAST AND SOUTHERN PORTIONS OF THE FORECAST AREA. SNOW LEVELS THIS MORNING WILL BE AROUND 3500 TO 4000 FEET SO ELEVATIONS ABOVE THIS WILL RECEIVE A LITTLE SNOW. THE WINTER WEATHER ADVISORY FOR ZONE 506 WILL CONTINUE. THE UPPER LEVEL LOW WILL SLOWLY DRIFT INTO THE EASTERN GREAT BASIN LATE TODAY WHICH WILL BEGIN TO CUTOFF THE MOISTURE FEED FOR MOST OF THE FORECAST AREA. WILL SEE PRECIPITATION IN THE EAST AND SOUTHERN PORTIONS OF THE FORECAST AREA TAPPER OFF DURING THE AFTERNOON AND COME TO AN END THIS EVENING.

MEANWHILE...LOW LEVEL NORTHERLY FLOW FEEDING INTO THE UPPER LEVEL LOW IS GENERATING WINDY CONDITIONS ACROSS THE NORTHERN AND WESTERN PORTION OF THE FORECAST AREA. THIS IS EXPECTED TO CONTINUE THROUGH THE DAY THEN BEGIN TAPERING OFF IN THE LATE AFTERNOON AND EVENING HOURS. WIND ADVISORIES WILL CONTINUE FOR ZONES 27 28 AND 521.

HIGH PRESSURE OFF THE WEST COAST WILL NUDGE BACK OVER THE PACIFIC NORTHWEST TUESDAY AND WEDNESDAY PROVIDING CLEAR SKIES AND DRY CONDITIONS. DO EXPECT SOME COLD MORNING TEMPERATURES TUESDAY AND WEDNESDAY BUT HIGH TEMPERATURES WILL SLOWLY BE WARMING.

Kennewick is in zone 28

NWS Pendleton, Wind Advisory, Monday, October 28, 2013, 5:31 am, PDT

National Weather Service Watch Warning Advisory Summary

<http://forecast.weather.gov/showsigwx.php?warnzone=WAZ028&wa...>



National Weather Service

Watches, Warnings & Advisories

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Wind Advisory

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PENDLETON OR
531 AM PDT MON OCT 28 2013

...VERY WINDY OVER PORTIONS OF THE COLUMBIA BASIN TODAY...

WAZ027-028-521-290000-
/O.CON.KPDT.WI.Y.0019.000000T0000Z-131029T0000Z/
YAKIMA VALLEY-LOWER COLUMBIA BASIN OF WASHINGTON-SIMCOE HIGHLANDS-
INCLUDING THE CITIES OF...NACHES...SUNNYSIDE...TOPPENISH...
YAKIMA...CONNELL...PROSSER...TRI-CITIES...BICKLETON...GOLDENDALE
531 AM PDT MON OCT 28 2013

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM PDT THIS
AFTERNOON...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM PDT THIS AFTERNOON.

- * TIMING: WINDS WILL CONTINUE THROUGH THE DAY AND BEGIN TO DECREASE LATE IN THE AFTERNOON.
- * WINDS: NORTH TO NORTHEAST WINDS OF 25 TO 35 MPH WITH GUSTS TO 45 MPH.
- * IMPACTS: THE GUSTY WINDS AND PATCHY BLOWING DUST COULD MAKE TRAVEL ON AREA HIGHWAYS DIFFICULT.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY IS ISSUED WHEN SUSTAINED WINDS ARE FORECAST BETWEEN 30 AND 39 MPH OR GUSTS RANGING 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.WEATHER.GOV/PENDLETON.

&&

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Hazardous Weather Outlook

HAZARDOUS WEATHER OUTLOOK

NATIONAL WEATHER SERVICE PENDLETON OR
555 AM PDT MON OCT 28 2013

WAZ027-028-521-290000-
YAKIMA VALLEY-LOWER COLUMBIA BASIN OF WASHINGTON-SIMCOE HIGHLANDS-
555 AM PDT MON OCT 28 2013

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF SOUTH
WASHINGTON AND SOUTH CENTRAL WASHINGTON.

.DAY ONE...TODAY AND TONIGHT

A WEATHER SYSTEM EXITING THE REGION WILL CONTINUE TO PRODUCE WINDY
CONDITIONS IN THE YAKIMA VALLEY, THE LOWER COLUMBIA BASIN OF
WASHINGTON, THE SIMCOE HIGHLANDS, AND THE KLICKITAT VALLEY LATE
TODAY WITH WINDS BEGINNING TO DECREASE LATE TODAY. WIND ADVISORIES ARE
IN EFFECT FOR THIS AREAS. SEE LATEST PRODUCT PDXNPWPD FOR MORE
DETAILS.

.DAYS TWO THROUGH SEVEN...TUESDAY THROUGH SUNDAY

COLDER TEMPERATURES IN THE WAKE OF THE DEPARTING WEATHER SYSTEM
WILL BRING FREEZING TEMPERATURES TO THE REGION TONIGHT AND
TUESDAY NIGHT. THIS WILL BE THE FIRST FREEZE FOR SOME LOW
ELEVATION LOCATIONS.


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NWS Pendleton Blowing Dust Potential, October 28 – 4:36 am PDT

For the rest of Monday, October 28 through 6 am October 29

National Weather Service - NWS Pendleton

<http://www.wrh.noaa.gov/pdt/currentHazards/graphicalHazards.php?c...>





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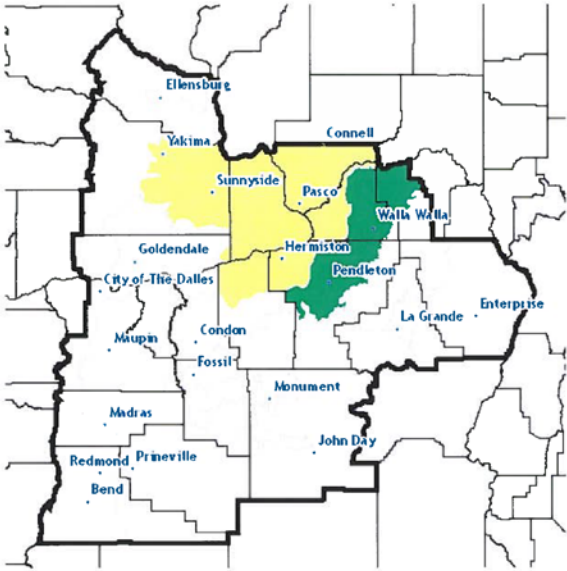
Blowing Dust Index | Current Hazards | Probability of 100 Degree Temperatures | Freeze Probability | Snowfall Amount Probability

Blowing Dust Potential

This product provides the potential for blowing dust in the Yakima Valley, Columbia Basin and Foothills of the Blue Mountains zones. The categories (low, moderate, high and very high) indicate the threat of visibilities below one mile due to blowing dust. This product is intended to supplement but not replace or supersede other sources of forecast guidance. The values are calculated by an automated computer algorithm that uses National Weather Service wind forecasts and observed precipitation amounts as input.

Period 1 Dust Potential

Valid for the rest of Monday, October 28 2013 through 6am Tuesday, October 29 2013



Period 2 Dust Potential

Valid from 6am Tuesday, October 29 2013 through 6am Wednesday, October 30 2013

Current Hazards

Watches / Warnings

Outlooks

NOAA Watch

Graphical Hazards

Current Conditions

Observations

Radar

Satellite

Precipitation

Local Observations

CoCoRaHS

Forecasts

Forecast Discussion

Local Area

Activity Planner

Aviation Weather

Fire Weather

Severe Weather

Hurricane Center

User Defined Area

Graphical Forecasts

Avalanche

Hydrology

Rivers and Lakes

Local Hydrology

Climate

Local

National

Drought

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Additional Info

Items of Interest

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NWS News

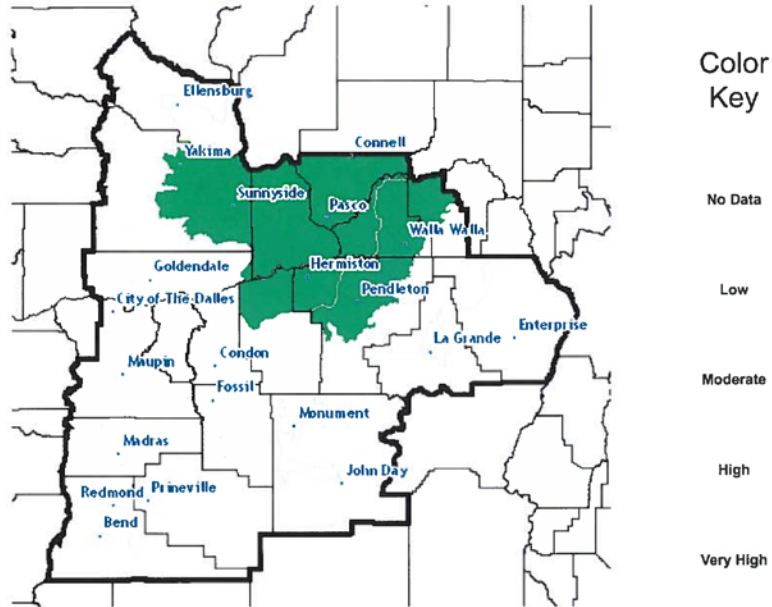
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Feedback

FAQ





NZUS75 KPDT DDHMM
 BLDUST
 Mon Oct 28 11:30:36 GMT 2013

This product provides a Blowing Dust Index for Today and Tomorrow for 5 zones in the Columbia Basin. The Index estimates the threat of visibilities BELOW ONE MILE due to blowing dust. It is intended to supplement but not replace other sources of forecast guidance.

The categories are Low, Moderate (> 6.0), High (>14.0), and Very High (>21.0).

PENDLETON ZONE FOR REST OF TODAY (10/28/2013) UNTIL 6 AM TOMORROW (10/29/2013).

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KPDT	0.00	0.03	0	32	4.38	1 = Low

PENDLETON ZONE 6 AM TOMORROW (10/29/2013) UNTIL 6 AM THE NEXT DAY (10/30/2013).

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KPDT	0.03	0.00	0	9	0.08	1 = Low

TRI CITIES ZONE FOR REST OF TODAY (10/28/2013) UNTIL 6 AM TOMORROW (10/29/2013).

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KPSC	0.01	0.00	0	42	9.64	2 = Moderate

TRI CITIES ZONE 6 AM TOMORROW (10/29/2013) UNTIL 6 AM THE NEXT DAY (10/30/2013).

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KPSC	0.00	0.00	0	22	1.48	1 = Low

YAKIMA ZONE FOR REST OF TODAY (10/28/2013) UNTIL 6 AM TOMORROW (10/29/2013).

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KYKM	0.12	0.00	6	42	9.06	2 = Moderate

YAKIMA ZONE 6 AM TOMORROW (10/29/2013) UNTIL 6 AM THE NEXT DAY (10/30/2013) .

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KYKM	0.00	0.00	0	21	1.17	1 = Low

WALLA WALLA ZONE FOR REST OF TODAY (10/28/2013) UNTIL 6 AM TOMORROW (10/29/2013) .

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KALW	0.04	0.00	2	32	4.29	1 = Low

WALLA WALLA ZONE 6 AM TOMORROW (10/29/2013) UNTIL 6 AM THE NEXT DAY (10/30/2013) .

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KALW	0.00	0.00	0	14	0.36	1 = Low

HERMISTON ZONE FOR REST OF TODAY (10/28/2013) UNTIL 6 AM TOMORROW (10/29/2013) .

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KHRI	0.03	0.00	0	40	8.57	2 = Moderate

HERMISTON ZONE 6 AM TOMORROW (10/29/2013) UNTIL 6 AM THE NEXT DAY (10/30/2013) .

Site	Pcpn	QPF	Soil Wetness (%)	Peak Gust (mph)	Index	Threat
KHRI	0.00	0.00	0	19	0.91	1 = Low

NNNN

Webmaster
 US Dept of Commerce
 National Oceanic and Atmospheric Administration
 National Weather Service
 Pendleton Weather Forecast Office
 2001 NW 56th Drive
 Pendleton, OR 97801

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Hanford Weather Station, Special Adverse Weather Advisory, October 27 2013

Robin Priddy

From: ^Hanford Weather Station <Hanford_Weather_Station@rl.gov>
Sent: Sunday, October 27, 2013 10:43 AM
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: 10/27/13 & 10/28/13

Time Period: 9 p.m. PDT Sunday (10/27/13) through 9 p.m. PDT Monday (10/28/13)

Message: A low pressure system dropping north to south through the region, will increase our winds above advisory levels (anything over 35 mph) late tonight and for much of Monday. By midnight tonight, northeast winds of 15-25 mph with gusts 35-40 mph will be possible. Overnight tonight and through midday Monday, northeast winds at 20-30 mph sustained with gusts of 40-50 mph will be possible. Monday evening, our winds are expected to begin decreasing and we should see gusts drop below 35 mph by around 9 p.m. PDT. Blowing dust will be possible with this wind increase, and it could reduce our visibility significantly.

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)

Tri-CityHerald.com - October 27, 2013 - Tri-Cities wind advisory starts 5 p.m. Sunday

Kennewick: Tri-Cities wind advisory starts 5 p.m. Sunday | Latest New... <http://www.tri-cityherald.com/2013/10/27/2644762/tri-cities-wind-ad->

Tri-CityHerald.com

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Tri-Cities wind advisory starts 5 p.m. Sunday

Published: October 27, 2013

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By Tri-City Herald

Kennewick — Wind gusts of up to 47 mph are forecast for Sunday night in the Tri-Cities.

The National Weather Service has issued a wind advisory for the Mid-Columbia from 5 p.m. Sunday until 5 p.m. Monday.

Winds speeds should peak Sunday night and Monday morning.

Sustained wind speeds of 21 to 29 mph before midnight Sunday are predicted in the Tri-Cities, with wind speeds of 24 to 29 mph predicted after midnight.

Temperatures will be cooling down as a cold front moves across Eastern Washington.

The high Sunday should be about 55 degrees, but clouds should keep Sunday overnight temperatures as high as 39 degrees in the Tri-Cities.

Monday the high will fall to about 52 degrees and Monday night temperatures should be well below freezing at 28 degrees.

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Join The Conversation

Tri-City Herald is pleased to provide this opportunity to share information, experiences and observations about what's in the news. Some of the comments may be reprinted elsewhere in the site or in the newspaper. We encourage lively, open debate on the issues of the day, and ask that you refrain from profanity, hate speech, personal comments and remarks that are off point. Thank you for taking the time to offer your thoughts.

Tri-CityHerald.com - October 27, 2013 – Blowing dust puts a chill on Mid-Columbia

http://www.tri-cityherald.com/2013/10/27/2644762_tri-cities-wind-advisory-starts.html?rh=1

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Blowing dust puts a chill on Mid-Columbia

BY TRI-CITY HERALD
October 27, 2013

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KENNEWICK — The Tri-Cities is under a National Weather Service wind advisory until 5 p.m. Monday.

The wind was expected to peak late Sunday night or early this morning with sustained wind speeds of up to 29 mph and gusts up to 47 mph.

Temperatures will be cooling down as a cold front moves across Eastern Washington.

The Tri-Cities could have the coldest overnight temperatures of the fall so far, with a predicted low of 28 degrees Monday night.

Monday also will be chilly, with a predicted high of just 52 degrees.



Three coots swim in the Columbia River near the 25th Avenue Trailhead of the Sacagawea Heritage Trail in Pasco. The view upriver of the blue bridge is obscured by blowing dust. The Tri-Cities is under a National Weather Service wind advisory until 5 p.m. Monday.

BOB BRAWDY — Tri-City Herald

Event Narrative: NOAA Storm Event Database- October 28

<http://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=478205>

Event Narrative **Spokane: Multiple trees were blown down blocking highway 206 near mile post 12. Highway 206 was closed for over 24 hours until crews were able to remove the debris. At 19th and Arthur on the South Hill, the top of a 50 year Ponderosa Pine was snapped off blocking the street and taking a tangle of cable and phone lines with it. Numerous power outages were observed across the Spokane Area.**

Event Details

Event	Strong Wind
Magnitude	48 kts.
State	WASHINGTON
County/Area	SPOKANE AREA
WFO	OTX
Report Source	Department of Highways
NCDC Data Source	CSV
Begin Date	2013-10-27 20:30:00.0 PST-8
End Date	2013-10-28 03:00:00.0 PST-8
Deaths Direct/Indirect	0/0 (fatality details below, when available...)
Injuries Direct/Indirect	0/0
Property Damage	3.00K
Crop Damage	0.00K
Episode Narrative	A strong north jet along the British Columbia Coastline drove a cold low pressure system southward from Western Canada into the Inland Northwest on October 27th. As low pressure deepened over Oregon and an arctic high pressure cell slide down the Continental Divide, strong northeast pressure gradients and cold advection set up across Eastern Washington and Northern Idaho resulting in strong, damaging winds. Locations across the Columbia Basin, Northeast Mountains, and Palouse experienced several downed trees and numerous power outages. At the height

	of the storm, over eleven thousand customers experienced power outages across Northeastern Washington and Northern Idaho.
Event Narrative	Multiple trees were blown down blocking highway 206 near mile post 12. Highway 206 was closed for over 24 hours until crews were able to remove the debris. At 19th and Arthur on the South Hill, the top of a 50 year Ponderosa Pine was snapped off blocking the street and taking a tangle of cable and phone lines with it. Numerous power outages were observed across the Spokane Area.

All events for this episode:

<u>Location</u>	<u>County/Zone</u>	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Ma</u> <u>g</u>	<u>Dt</u> <u>h</u>	<u>In</u> <u>i</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	11.00 K	0.00 K
NORTHEAST MOUNTAINS (ZONE)	NORTHEAST MOUNTAINS (ZONE)	WA	10/27/2013	16:20	PST-8	Strong Wind	48 kts .EG	0	0	8.00K	0.00 K
SPOKANE AREA (ZONE)	SPOKANE AREA (ZONE)	WA	10/27/2013	20:30	PST-8	Strong Wind	48 kts .EG	0	0	3.00K	0.00 K
Totals:								0	0	11.00 K	0.00 K

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Cliff Mass Blog Spot: Monday, October 28, 2013

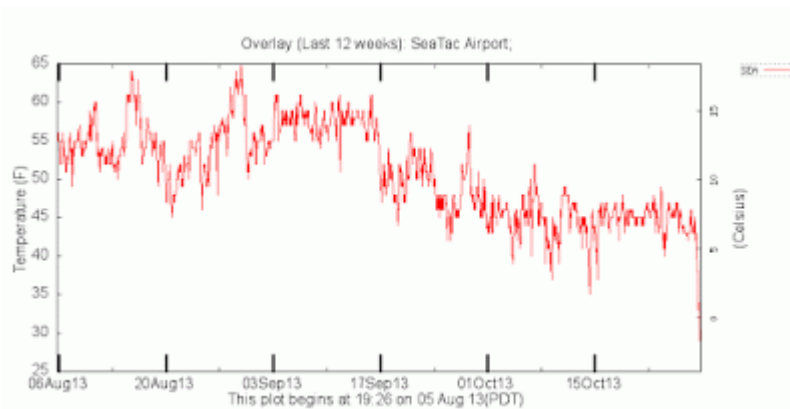
<http://cliffmass.blogspot.com/2013/10/very-dry-air-and-hurricane-force-winds.html>

Very Dry Air and Hurricane-Force Winds Strike the Northwest

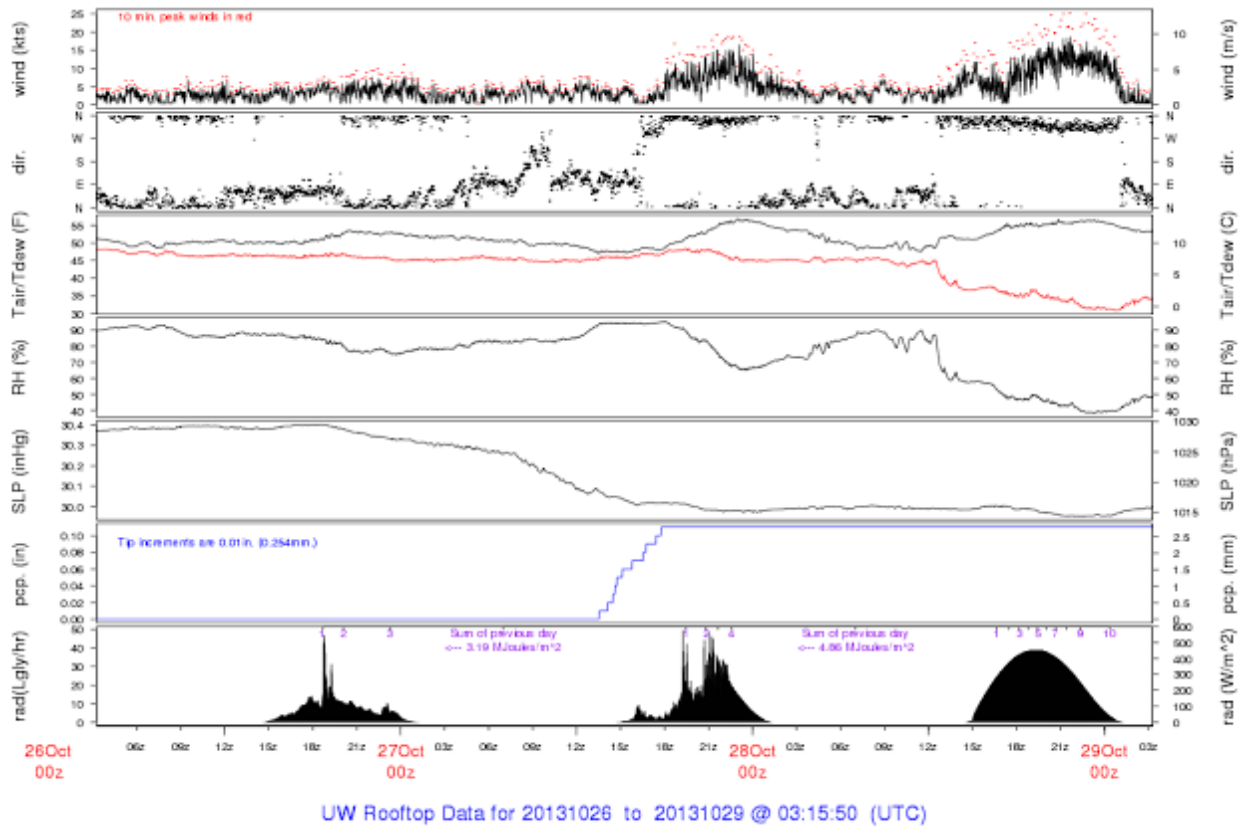
Few areas of the U.S. enjoy such varied and variable weather as the Northwest. Last week we were stuck in Fogmageddon, a very unusual string of dense fog days (most extreme since 1988) that were accompanied by light winds and a startlingly strong inversion. Temperatures varied by 30-40F between sea level locations and others on the slopes.

And then a sharp trough passed on Sunday and we moved into VERY strong northerly and northeasterly flow, with bright sun and cooler temperatures. The moisture levels of our air plummeted to values not seen since last spring. Do you feel your skin drying? The static electricity building in your carpeted rooms?

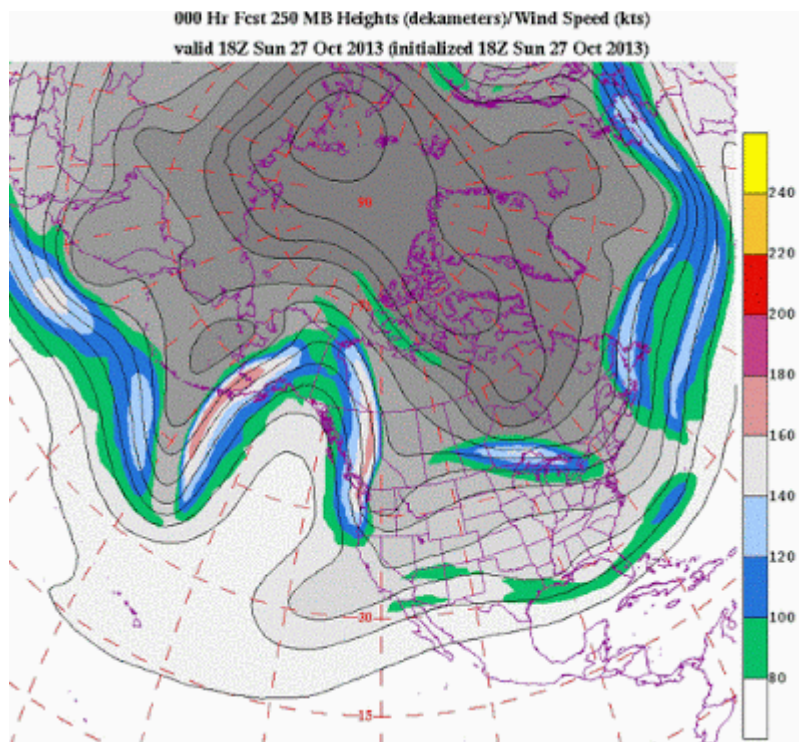
Here are the dew points the past 12 weeks at Sea Tac Airport. Remember dew point is a good measure of moisture in the air (low dew points dry, high dew points lots of moisture). Wow! Dew point dropped to 29F today, from the mid-40s of the foggy period, and MUCH less than that humid period in September.



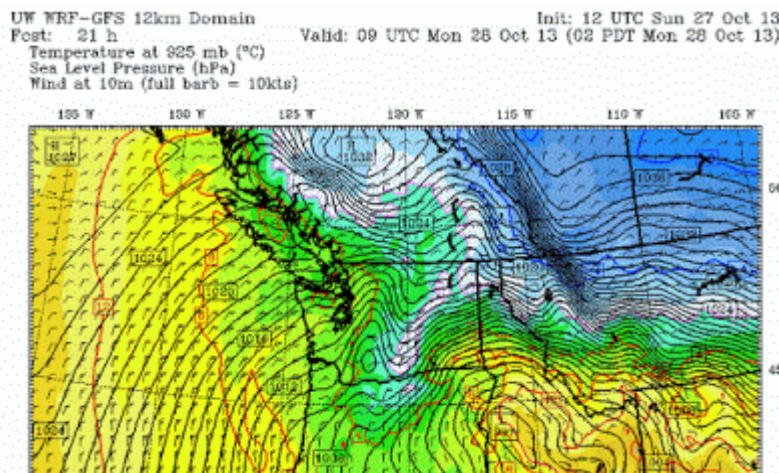
Take a look at the last 72 hours of observations at the UW. Relative humidities (fourth panel down) have dropped to around 45%, with winds gusting to 20-25 knots. The bottom panel shows solar radiation....a perfect curve today since there were no clouds.



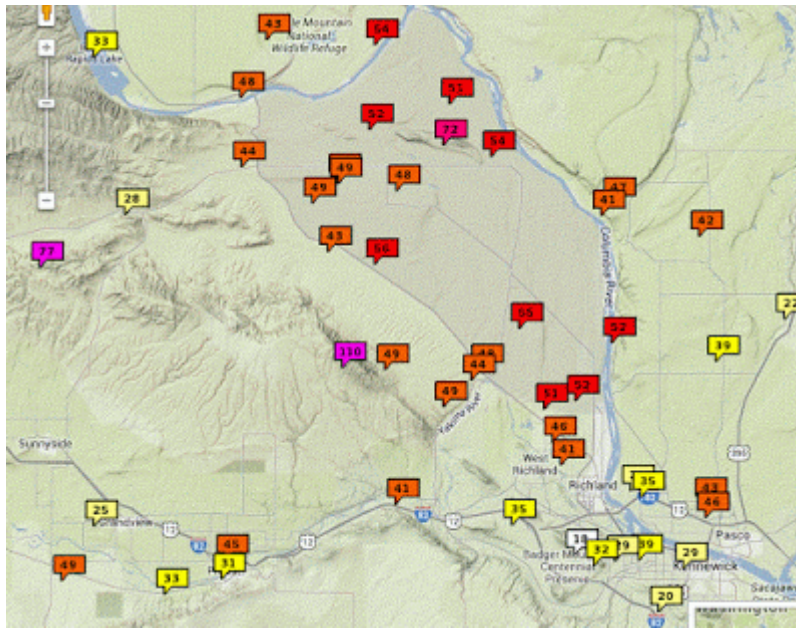
Here is the upper level (250 hPa pressure) map at around 35,000 ft yesterday showing the heights of that pressure surface and the wind speed at that level (in knots). This level is very close to the one most commercial jetliners fly at. The strong winds are in narrow ribbons...the jet stream. A high-amplitude ridge is over the eastern Pacific, with very strong (up to 160-180 knot) northerly winds. I was flying from the East Coast Sunday night and experienced these strong winds (and associated turbulence) close up.



The big ridge is associated with strong high pressure over British Columbia (see map), and the combination of a big pressure difference at the surface and very strong northerly



winds aloft produced areas of huge winds--particularly over eastern Washington. Here are the max wind gusts for the past 24h in that area (the Tri-Cities are in the lower right corner). **110 mph at Rattlesnake Mountain** and 77 mph at another rest location. Lots of winds in the 40-50 mph range around the region.



Take a closer look at the Rattlesnake Ridge winds. Mamma Mia! Sustained 80-89 mph with gusts over 100. These are truly hurricane-force. I bet the rattlesnakes are shaking tonight.

28 Oct 9:15 am PDT	31	18	58	10	NNE	81G96
28 Oct 9:00 am PDT	31	18	58	10	NNE	81G96
28 Oct 8:45 am PDT	31	18	58	10	NNE	81G92
28 Oct 8:30 am PDT	31	19	61	9	NNE	82G100
28 Oct 8:15 am PDT	31	19	61	9	NNE	83G97
28 Oct 8:00 am PDT	31	19	61	9	NNE	86G100
28 Oct 7:45 am PDT	31	19	61	9	NNE	87G100
28 Oct 7:30 am PDT	31	20	63	9	NNE	87G102
28 Oct 7:15 am PDT	32	20	61	11	NNE	87G102
28 Oct 7:00 am PDT	32	21	63	11	NNE	87G102
28 Oct 6:45 am PDT	32	21	63	10	NNE	89G110
28 Oct 6:30 am PDT	32	21	63	11	NNE	87G105
28 Oct 6:15 am PDT	32	22	66	10	NNE	89G105
28 Oct 6:00 am PDT	32	23	69	11	NNE	87G100
28 Oct 5:45 am PDT	32	23	69	11	NNE	86G100
28 Oct 5:30 am PDT	31	24	75	9	NNE	84G100
28 Oct 5:15 am PDT	31	25	78	10	NNE	81G97

Can you imagine how envious those eastern folks are over our weather fun here?

With clear skies and cool/dry air over us, expect minimum temperatures to drop, particularly in sheltered locations. Many of you will experience 30s tonight and in some of the cooler/more sheltered spots, frost. Good time to protect your plants.

Meteorological Data

LIDW, 15 minute data, October 27-28

ID = LIDW	Wind Speed, mph	GUST mph	DRCT °
10-28-2013 23:45 PDT	17.2	23	23 NNE
10-28-2013 23:30 PDT	17.2	23.7	22 NNE
10-28-2013 23:15 PDT	17.4	23.5	19 NNE
10-28-2013 23:00 PDT	17.8	25.7	21 NNE
10-28-2013 22:45 PDT	18.9	26.7	22 NNE
10-28-2013 22:30 PDT	20.3	27.4	22 NNE
10-28-2013 22:15 PDT	19.9	26.7	23 NNE
10-28-2013 22:00 PDT	20.8	28.1	23 NNE
10-28-2013 21:45 PDT	20.8	28.3	22 NNE
10-28-2013 21:30 PDT	20.7	27.8	22 NNE
10-28-2013 21:15 PDT	21.7	31.1	23 NNE
10-28-2013 21:00 PDT	21.5	30.3	22 NNE
10-28-2013 20:45 PDT	21.5	30.3	22 NNE
10-28-2013 20:30 PDT	21.2	28.5	21 NNE
10-28-2013 20:15 PDT	20.6	29.6	19 NNE
10-28-2013 20:00 PDT	21	30.5	23 NNE
10-28-2013 19:45 PDT	21.5	28.7	23 NNE
10-28-2013 19:30 PDT	22.5	30	25 NNE
10-28-2013 19:15 PDT	22	30	25 NNE
10-28-2013 19:00 PDT	21.4	29.8	23 NNE
10-28-2013 18:45 PDT	21.5	29.6	23 NNE
10-28-2013 18:30 PDT	21.8	29.1	24 NNE
10-28-2013 18:15 PDT	20.9	29.1	25 NNE
10-28-2013 18:00 PDT	22.1	30.3	23 NNE
10-28-2013 17:45 PDT	21.5	29.6	21 NNE
10-28-2013 17:30 PDT	21.1	29.1	21 NNE
10-28-2013 17:15 PDT	21.5	33.1	25 NNE
10-28-2013 17:00 PDT	22.9	33.8	25 NNE
10-28-2013 16:45 PDT	25.9	34.4	24 NNE
10-28-2013 16:30 PDT	24.6	37	27 NNE
10-28-2013 16:15 PDT	24.2	32.7	28 NNE
10-28-2013 16:00 PDT	24.5	35.7	25 NNE
10-28-2013 15:45 PDT	25.4	33.5	28 NNE
10-28-2013 15:30 PDT	23	30.5	30 NNE
10-28-2013 15:15 PDT	24.4	32.7	31 NNE
10-28-2013 15:00 PDT	24.3	33.3	31 NNE
10-28-2013 14:45 PDT	25.3	34.6	36 NNE
10-28-2013 14:30 PDT	25.8	35.5	31 NNE
10-28-2013 14:15 PDT	25.4	35.5	28 NNE
10-28-2013 14:00 PDT	25	33.5	29 NNE
10-28-2013 13:45 PDT	26.3	35.1	29 NNE
10-28-2013 13:30 PDT	25.8	36.6	29 NNE

ID = LIDW	Wind Speed, mph	GUST mph	DRCT °
10-28-2013 13:15 PDT	26.4	37.5	31 NNE
10-28-2013 13:00 PDT	27.6	40.8	29 NNE
10-28-2013 12:45 PDT	27.2	37.7	31 NNE
10-28-2013 12:30 PDT	28.3	39.2	31 NNE
10-28-2013 12:15 PDT	29.4	38.6	33 NNE
10-28-2013 12:00 PDT	28.6	40.3	36 NNE
10-28-2013 11:45 PDT	29.8	40.1	35 NNE
10-28-2013 11:30 PDT	31.4	41.9	38 NNE
10-28-2013 11:15 PDT	30.7	43.2	36 NNE
10-28-2013 11:00 PDT	30.6	45.4	38 NNE
10-28-2013 10:45 PDT	30.7	41	38 NNE
10-28-2013 10:30 PDT	29.2	41.6	34 NNE
10-28-2013 10:15 PDT	30.5	41.4	34 NNE
10-28-2013 10:00 PDT	30.5	43.2	35 NNE
10-28-2013 9:45 PDT	30.1	41.6	32 NNE
10-28-2013 9:30 PDT	29.1	44.7	33 NNE
10-28-2013 9:15 PDT	29.6	41	32 NNE
10-28-2013 9:00 PDT	30.6	43	33 NNE
10-28-2013 8:45 PDT	30.4	41.4	32 NNE
10-28-2013 8:30 PDT	30.8	41.4	29 NNE
10-28-2013 8:15 PDT	32.1	44.1	29 NNE
10-28-2013 8:00 PDT	31.7	44.5	31 NNE
10-28-2013 7:45 PDT	31.5	44.9	30 NNE
10-28-2013 7:30 PDT	32.5	43.2	29 NNE
10-28-2013 7:15 PDT	31.6	45.8	27 NNE
10-28-2013 7:00 PDT	32.2	44.5	25 NNE
10-28-2013 6:45 PDT	30.3	40.3	24 NNE
10-28-2013 6:30 PDT	32.1	43	23 NNE
10-28-2013 6:15 PDT	30.4	40.8	23 NNE
10-28-2013 6:00 PDT	30.3	42.7	23 NNE
10-28-2013 5:45 PDT	30.7	41.2	24 NNE
10-28-2013 5:30 PDT	31.1	41.9	25 NNE
10-28-2013 5:15 PDT	32.2	44.1	28 NNE
10-28-2013 5:00 PDT	31.7	43	29 NNE
10-28-2013 4:45 PDT	31.1	41.9	29 NNE
10-28-2013 4:30 PDT	32	43.2	29 NNE
10-28-2013 4:15 PDT	30.3	44.3	28 NNE
10-28-2013 4:00 PDT	32.4	43.6	28 NNE
10-28-2013 3:45 PDT	30.5	42.3	31 NNE
10-28-2013 3:30 PDT	31.9	44.1	30 NNE
10-28-2013 3:15 PDT	30	42.3	29 NNE
10-28-2013 3:00 PDT	29.8	40.8	29 NNE
10-28-2013 2:45 PDT	30.6	41.6	30 NNE
10-28-2013 2:30 PDT	31.1	42.5	32 NNE
10-28-2013 2:15 PDT	32	44.9	34 NNE
10-28-2013 2:00 PDT	32.1	44.3	35 NNE

ID = LIDW	Wind Speed, mph	GUST mph	DRCT °
10-28-2013 1:45 PDT	32	44.1	38 NNE
10-28-2013 1:30 PDT	34	46.2	38 NNE
10-28-2013 1:15 PDT	34.3	46.9	37 NNE
10-28-2013 1:00 PDT	31.2	44.7	36 NNE
10-28-2013 0:45 PDT	29.4	42.7	35 NNE
10-28-2013 0:30 PDT	29.7	39.7	32 NNE
10-28-2013 0:15 PDT	29.4	41.4	32 NNE
10-28-2013 0:00 PDT	30.7	41	33 NNE

MesoWest Disclaimer
Contact MesoWest

BPKEN, 5-minute data, October 27-28

BPKEN	Wind Speed, mph	GUST, mph	Wind Direction °
10-27-2013 0:00 PDT	17.5	17.7	196 SSW
10-27-2013 0:05 PDT	17.7	18	192 SSW
10-27-2013 0:10 PDT	17.9	19.1	192 SSW
10-27-2013 0:15 PDT	18.8	19.8	193 SSW
10-27-2013 0:20 PDT	19.5	20.2	196 SSW
10-27-2013 0:25 PDT	18.4	18.9	198 SSW
10-27-2013 0:30 PDT	19.5	21.3	194 SSW
10-27-2013 0:35 PDT	19.5	21.3	188 S
10-27-2013 0:40 PDT	19	21.5	190 S
10-27-2013 0:45 PDT	19.2	21.7	187 S
10-27-2013 0:50 PDT	21.7	24.1	191 S
10-27-2013 0:55 PDT	23.6	27.2	188 S
10-27-2013 1:00 PDT	24	26.9	185 S
10-27-2013 1:05 PDT	24.7	27.2	185 S
10-27-2013 1:10 PDT	24.7	28.9	183 S
10-27-2013 1:15 PDT	26.3	30.9	182 S
10-27-2013 1:20 PDT	29.2	32.9	183 S
10-27-2013 1:25 PDT	31.2	35.1	183 S
10-27-2013 1:30 PDT	30.1	34	183 S
10-27-2013 1:35 PDT	25.1	30.9	184 S
10-27-2013 1:40 PDT	24.7	30	186 S
10-27-2013 1:45 PDT	27.6	31.1	188 S
10-27-2013 1:50 PDT	30.8	32.5	191 S
10-27-2013 1:55 PDT	32.2	33.7	192 SSW
10-27-2013 2:00 PDT	33.1	36.4	196 SSW
10-27-2013 2:05 PDT	32.4	34	197 SSW
10-27-2013 2:10 PDT	32.1	34	197 SSW
10-27-2013 2:15 PDT	31.4	33.1	196 SSW

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-27-2013 2:20 PDT	31.7	33.1	198	SSW
10-27-2013 2:25 PDT	31	32.4	199	SSW
10-27-2013 2:30 PDT	31.8	32.9	202	SSW
10-27-2013 2:35 PDT	33.1	33.5	199	SSW
10-27-2013 2:40 PDT	33.5	33.5	199	SSW
10-27-2013 2:45 PDT	33	33.5	198	SSW
10-27-2013 2:50 PDT	32.3	32.7	196	SSW
10-27-2013 2:55 PDT	31	31.9	197	SSW
10-27-2013 3:00 PDT	30.4	30.8	199	SSW
10-27-2013 3:05 PDT	30.7	30.9	202	SSW
10-27-2013 3:10 PDT	30.8	31.5	203	SSW
10-27-2013 3:15 PDT	29.7	31.3	202	SSW
10-27-2013 3:20 PDT	27.9	30.5	202	SSW
10-27-2013 3:25 PDT	26.4	29.4	205	SSW
10-27-2013 3:30 PDT	25.7	31.5	208	SSW
10-27-2013 3:35 PDT	25.2	28.7	209	SSW
10-27-2013 3:40 PDT	25.4	29.4	206	SSW
10-27-2013 3:45 PDT	26.1	30.5	204	SSW
10-27-2013 3:50 PDT	26.7	31.1	204	SSW
10-27-2013 3:55 PDT	26.2	30	200	SSW
10-27-2013 4:00 PDT	26.8	30.9	199	SSW
10-27-2013 4:05 PDT	30.3	35.1	195	SSW
10-27-2013 4:10 PDT	35.2	39.9	195	SSW
10-27-2013 4:15 PDT	37.3	41.4	196	SSW
10-27-2013 4:20 PDT	39.7	42.9	196	SSW
10-27-2013 4:25 PDT	39.5	42.7	195	SSW
10-27-2013 4:30 PDT	38.7	41.8	195	SSW
10-27-2013 4:35 PDT	38.4	41.8	193	SSW
10-27-2013 4:40 PDT	41.1	44.5	194	SSW
10-27-2013 4:45 PDT	41.8	44.9	193	SSW
10-27-2013 4:50 PDT	38.5	42.1	193	SSW
10-27-2013 4:55 PDT	41.7	46.2	198	SSW
10-27-2013 5:00 PDT	42.5	46	198	SSW
10-27-2013 5:05 PDT	41.2	44.7	195	SSW
10-27-2013 5:10 PDT	39	41.8	192	SSW
10-27-2013 5:15 PDT	38.7	41.8	192	SSW
10-27-2013 5:20 PDT	37.5	40.5	192	SSW
10-27-2013 5:25 PDT	38.9	42.5	192	SSW
10-27-2013 5:30 PDT	38.1	42.1	191	S
10-27-2013 5:35 PDT	38	41.6	190	S
10-27-2013 5:40 PDT	36.7	41	188	S
10-27-2013 5:45 PDT	36.1	40.1	185	S
10-27-2013 5:50 PDT	35.4	40.5	183	S
10-27-2013 5:55 PDT	35.2	39.4	183	S
10-27-2013 6:00 PDT	37	39.6	180	S
10-27-2013 6:05 PDT	39.3	42.3	181	S

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-27-2013 6:10 PDT	42.7	45.6	182	S
10-27-2013 6:15 PDT	45.6	50.6	182	S
10-27-2013 6:20 PDT	48.2	50.8	182	S
10-27-2013 6:25 PDT	47.1	53.4	181	S
10-27-2013 6:30 PDT	46.8	51.9	181	S
10-27-2013 6:35 PDT	45.9	50.6	183	S
10-27-2013 6:40 PDT	48.1	53.4	186	S
10-27-2013 6:45 PDT	45.4	49.7	186	S
10-27-2013 6:50 PDT	46.5	51.9	190	S
10-27-2013 6:55 PDT	45.3	51.7	188	S
10-27-2013 7:00 PDT	46.5	55.2	189	S
10-27-2013 7:05 PDT	47.6	51.5	191	S
10-27-2013 7:10 PDT	47	53.4	192	SSW
10-27-2013 7:15 PDT	47.4	51.7	193	SSW
10-27-2013 7:20 PDT	44.3	48.4	193	SSW
10-27-2013 7:25 PDT	43.2	47.1	194	SSW
10-27-2013 7:30 PDT	44	48	196	SSW
10-27-2013 7:35 PDT	44.1	49.1	196	SSW
10-27-2013 7:40 PDT	46.5	51.7	195	SSW
10-27-2013 7:45 PDT	43.8	49.9	197	SSW
10-27-2013 7:50 PDT	40.8	49.5	204	SSW
10-27-2013 7:55 PDT	37.4	46.7	205	SSW
10-27-2013 8:00 PDT	39.3	47.3	206	SSW
10-27-2013 8:05 PDT	34.9	44.5	206	SSW
10-27-2013 8:10 PDT	36.6	41.2	204	SSW
10-27-2013 8:15 PDT	33.9	39.2	203	SSW
10-27-2013 8:20 PDT	29.3	33.5	203	SSW
10-27-2013 8:25 PDT	26	29.6	202	SSW
10-27-2013 8:30 PDT	23.6	26.5	201	SSW
10-27-2013 8:35 PDT	17.1	23.4	200	SSW
10-27-2013 8:40 PDT	15.2	23.7	198	SSW
10-27-2013 8:45 PDT	15.1	24.3	195	SSW
10-27-2013 8:50 PDT	12.7	16.1	200	SSW
10-27-2013 8:55 PDT	15.2	19.1	192	SSW
10-27-2013 9:00 PDT	11.6	14.4	199	SSW
10-27-2013 9:05 PDT	12.9	16.7	215	SW
10-27-2013 9:10 PDT	8.6	13.2	232	SW
10-27-2013 9:15 PDT	9.6	11.8	230	SW
10-27-2013 9:20 PDT	10.1	13.2	229	SW
10-27-2013 9:25 PDT	9.2	12.7	226	SW
10-27-2013 9:30 PDT	4.7	8.1	238	WSW
10-27-2013 9:35 PDT	8	13.2	194	SSW
10-27-2013 9:40 PDT	10.8	12.7	199	SSW
10-27-2013 9:45 PDT	5.3	9.6	221	SW
10-27-2013 9:50 PDT	12.1	20.8	211	SSW
10-27-2013 9:55 PDT	12.7	17.5	205	SSW

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °
10-27-2013 10:00 PDT	16	22.1	201 SSW
10-27-2013 10:05 PDT	20.5	23.2	200 SSW
10-27-2013 10:10 PDT	20.6	23.4	203 SSW
10-27-2013 10:15 PDT	18.9	23.9	209 SSW
10-27-2013 10:20 PDT	11.3	17.7	215 SW
10-27-2013 10:25 PDT	9.8	18.8	275 W
10-27-2013 10:30 PDT	17.1	20.8	291 WNW
10-27-2013 10:35 PDT	17.4	21.3	304 NW
10-27-2013 10:40 PDT	16.3	20.2	306 NW
10-27-2013 10:45 PDT	14.5	17.3	309 NW
10-27-2013 10:50 PDT	13.8	17.7	310 NW
10-27-2013 10:55 PDT	12.6	16.9	285 WNW
10-27-2013 11:00 PDT	11.5	16.2	285 WNW
10-27-2013 11:05 PDT	14.1	17.5	289 WNW
10-27-2013 11:10 PDT	15.4	19.9	294 WNW
10-27-2013 11:15 PDT	10.7	17.1	272 W
10-27-2013 11:20 PDT	6.5	10.5	227 SW
10-27-2013 11:25 PDT	5.3	9	272 W
10-27-2013 11:30 PDT	4.1	12.1	248 WSW
10-27-2013 11:35 PDT	9.8	15.6	301 WNW
10-27-2013 11:40 PDT	12.2	15.8	300 WNW
10-27-2013 11:45 PDT	12.7	18.4	293 WNW
10-27-2013 11:50 PDT	12.9	18.2	311 NW
10-27-2013 11:55 PDT	17.3	21.5	314 NW
10-27-2013 12:00 PDT	18.5	20.8	316 NW
10-27-2013 12:05 PDT	16.8	18.8	318 NW
10-27-2013 12:10 PDT	17.5	19.9	325 NW
10-27-2013 12:15 PDT	19.1	21.7	328 NNW
10-27-2013 12:20 PDT	17.9	20.8	334 NNW
10-27-2013 12:25 PDT	15.4	18.6	325 NW
10-27-2013 12:30 PDT	16	18.6	320 NW
10-27-2013 12:35 PDT	17.4	21.5	316 NW
10-27-2013 12:40 PDT	16.1	18.6	317 NW
10-27-2013 12:45 PDT	18	20.6	331 NNW
10-27-2013 12:50 PDT	20.4	22.8	339 NNW
10-27-2013 12:55 PDT	20.1	22.1	333 NNW
10-27-2013 13:00 PDT	19.4	21.9	339 NNW
10-27-2013 13:05 PDT	17.5	19.3	330 NNW
10-27-2013 13:10 PDT	16.8	20.2	333 NNW
10-27-2013 13:15 PDT	15.4	19.9	341 NNW
10-27-2013 13:20 PDT	13.7	15.8	346 NNW
10-27-2013 13:25 PDT	14.2	16.7	348 NNW
10-27-2013 13:30 PDT	13.9	17.7	352 N
10-27-2013 13:35 PDT	14.8	18	351 N
10-27-2013 13:40 PDT	13.8	17.5	355 N
10-27-2013 13:45 PDT	15.2	18.4	354 N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °
10-27-2013 13:50 PDT	10.5	12.9	347 NNW
10-27-2013 13:55 PDT	11.9	16	354 N
10-27-2013 14:00 PDT	12.4	14.5	350 N
10-27-2013 14:05 PDT	12.7	14.7	347 NNW
10-27-2013 14:10 PDT	11.1	14.5	349 N
10-27-2013 14:15 PDT	12.2	14	348 NNW
10-27-2013 14:20 PDT	14.2	17.5	350 N
10-27-2013 14:25 PDT	13.1	16.9	352 N
10-27-2013 14:30 PDT	13.2	16.4	346 NNW
10-27-2013 14:35 PDT	13.2	15.3	347 NNW
10-27-2013 14:40 PDT	13.3	15.1	344 NNW
10-27-2013 14:45 PDT	13	14.5	340 NNW
10-27-2013 14:50 PDT	14.5	16.9	334 NNW
10-27-2013 14:55 PDT	15.4	18.2	336 NNW
10-27-2013 15:00 PDT	15.4	17.7	336 NNW
10-27-2013 15:05 PDT	17	19.1	337 NNW
10-27-2013 15:10 PDT	16.6	19.3	341 NNW
10-27-2013 15:15 PDT	15.8	17.7	340 NNW
10-27-2013 15:20 PDT	15.2	17.5	342 NNW
10-27-2013 15:25 PDT	14.6	17.3	344 NNW
10-27-2013 15:30 PDT	15	18	344 NNW
10-27-2013 15:35 PDT	14.5	17.3	344 NNW
10-27-2013 15:40 PDT	14.6	17.1	342 NNW
10-27-2013 15:45 PDT	13.9	17.1	345 NNW
10-27-2013 15:50 PDT	14.6	18.2	344 NNW
10-27-2013 15:55 PDT	12.4	15.6	351 N
10-27-2013 16:00 PDT	11.5	14.7	352 N
10-27-2013 16:05 PDT	13.1	16.7	346 NNW
10-27-2013 16:10 PDT	11.5	14.2	347 NNW
10-27-2013 16:15 PDT	10.4	13.4	347 NNW
10-27-2013 16:20 PDT	11.8	14	344 NNW
10-27-2013 16:25 PDT	11.1	12.7	344 NNW
10-27-2013 16:30 PDT	10.8	13.6	346 NNW
10-27-2013 16:35 PDT	10.7	13.2	351 N
10-27-2013 16:40 PDT	11.5	14.5	354 N
10-27-2013 16:45 PDT	12.4	15.1	351 N
10-27-2013 16:50 PDT	11.3	13.8	349 N
10-27-2013 16:55 PDT	12.1	13.6	345 NNW
10-27-2013 17:00 PDT	12.3	14	345 NNW
10-27-2013 17:05 PDT	11.2	13.6	346 NNW
10-27-2013 17:10 PDT	9.9	11	348 NNW
10-27-2013 17:15 PDT	10.4	11.2	346 NNW
10-27-2013 17:20 PDT	10.5	13.2	346 NNW
10-27-2013 17:25 PDT	11.2	13.6	349 N
10-27-2013 17:30 PDT	11.3	12.9	350 N
10-27-2013 17:35 PDT	11.2	13.2	353 N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-27-2013 17:40 PDT	12	14.9	356	N
10-27-2013 17:45 PDT	11.8	14	355	N
10-27-2013 17:50 PDT	12.7	15.1	352	N
10-27-2013 17:55 PDT	13.1	15.8	355	N
10-27-2013 18:00 PDT	13.1	17.3	356	N
10-27-2013 18:05 PDT	15.2	18.4	3	N
10-27-2013 18:10 PDT	14.5	18.6	2	N
10-27-2013 18:15 PDT	15.5	18.8	3	N
10-27-2013 18:20 PDT	16.7	18.4	5	N
10-27-2013 18:25 PDT	16.2	18.4	7	N
10-27-2013 18:30 PDT	16.5	17.5	11	N
10-27-2013 18:35 PDT	17.1	18.2	16	NNE
10-27-2013 18:40 PDT	17.2	17.3	21	NNE
10-27-2013 18:45 PDT	16.5	17.3	24	NNE
10-27-2013 18:50 PDT	16.2	16.7	24	NNE
10-27-2013 18:55 PDT	15.4	15.7	24	NNE
10-27-2013 19:00 PDT	14.7	15	23	NNE
10-27-2013 19:05 PDT	14.1	14.4	17	NNE
10-27-2013 19:10 PDT	14.8	15.8	12	NNE
10-27-2013 19:15 PDT	16.4	17.1	9	N
10-27-2013 19:20 PDT	17.2	18	8	N
10-27-2013 19:25 PDT	17.9	18.4	10	N
10-27-2013 19:30 PDT	18.4	18.8	10	N
10-27-2013 19:35 PDT	18	19.1	6	N
10-27-2013 19:40 PDT	17.3	18.8	5	N
10-27-2013 19:45 PDT	17.6	19.3	3	N
10-27-2013 19:50 PDT	16.7	19.3	5	N
10-27-2013 19:55 PDT	17.3	21.7	3	N
10-27-2013 20:00 PDT	17	20.2	2	N
10-27-2013 20:05 PDT	17	21.7	3	N
10-27-2013 20:10 PDT	18.9	23.9	3	N
10-27-2013 20:15 PDT	21.2	29.1	355	N
10-27-2013 20:20 PDT	24.4	29.1	350	N
10-27-2013 20:25 PDT	22	25.2	353	N
10-27-2013 20:30 PDT	21.7	25.4	351	N
10-27-2013 20:35 PDT	22.4	28.3	354	N
10-27-2013 20:40 PDT	22.6	28.3	358	N
10-27-2013 20:45 PDT	24.2	29.6	1	N
10-27-2013 20:50 PDT	23.2	29.1	1	N
10-27-2013 20:55 PDT	23.2	29.6	2	N
10-27-2013 21:00 PDT	23.7	29.4	359	N
10-27-2013 21:05 PDT	24.9	30.9	358	N
10-27-2013 21:10 PDT	26.4	32.6	359	N
10-27-2013 21:15 PDT	27.4	33.7	359	N
10-27-2013 21:20 PDT	28.5	35.1	2	N
10-27-2013 21:25 PDT	30.8	39.9	3	N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-27-2013 21:30 PDT	29.7	35.5	5	N
10-27-2013 21:35 PDT	31.5	37.2	5	N
10-27-2013 21:40 PDT	30.8	37.2	5	N
10-27-2013 21:45 PDT	33.8	40.3	4	N
10-27-2013 21:50 PDT	34.5	40.5	4	N
10-27-2013 21:55 PDT	33.7	41.2	3	N
10-27-2013 22:00 PDT	35.4	40.5	5	N
10-27-2013 22:05 PDT	36.4	41.6	5	N
10-27-2013 22:10 PDT	35.7	41.2	7	N
10-27-2013 22:15 PDT	34.8	39.4	6	N
10-27-2013 22:20 PDT	34.8	39	5	N
10-27-2013 22:25 PDT	35.9	39.9	5	N
10-27-2013 22:30 PDT	35.4	42.3	7	N
10-27-2013 22:35 PDT	35.5	41.6	6	N
10-27-2013 22:40 PDT	34.6	38.6	6	N
10-27-2013 22:45 PDT	33.4	41.4	7	N
10-27-2013 22:50 PDT	36.4	43.6	8	N
10-27-2013 22:55 PDT	35.4	40.5	10	N
10-27-2013 23:00 PDT	34.9	39.6	10	N
10-27-2013 23:05 PDT	33.7	38.8	12	NNE
10-27-2013 23:10 PDT	35.5	39.4	12	NNE
10-27-2013 23:15 PDT	36.6	42.9	13	NNE
10-27-2013 23:20 PDT	37.5	41.8	16	NNE
10-27-2013 23:25 PDT	36	39.9	17	NNE
10-27-2013 23:30 PDT	36.5	41.4	17	NNE
10-27-2013 23:35 PDT	38.1	43.8	18	NNE
10-27-2013 23:40 PDT	41.6	47.3	16	NNE
10-27-2013 23:45 PDT	42	46.7	11	N
10-27-2013 23:50 PDT	44.6	47.8	9	N
10-27-2013 23:55 PDT	42.9	49.1	10	N
10-28-2013 0:00 PDT	42.5	47.1	9	N

MesoWest Disclaimer

Data provided by: Bonneville Power Administration

ID = BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-28-2013 0:00 PDT	42.5	47.1	9	N
10-28-2013 0:05 PDT	44.6	49.1	8	N
10-28-2013 0:10 PDT	42.9	48.8	6	N
10-28-2013 0:15 PDT	41.5	47.3	9	N
10-28-2013 0:20 PDT	41.8	47.8	9	N
10-28-2013 0:25 PDT	39.8	46.7	9	N
10-28-2013 0:30 PDT	39	46.2	10	N
10-28-2013 0:35 PDT	39.4	45.3	9	N

BPKEN	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 0:40 PDT	36.7	41.8	7	N
10-28-2013 0:45 PDT	35.3	43.2	5	N
10-28-2013 0:50 PDT	32.9	37	7	N
10-28-2013 0:55 PDT	34	40.3	8	N
10-28-2013 1:00 PDT	35.3	41.6	10	N
10-28-2013 1:05 PDT	34.2	40.7	13	NNE
10-28-2013 1:10 PDT	33.3	37.5	12	NNE
10-28-2013 1:15 PDT	32.9	37.7	16	NNE
10-28-2013 1:20 PDT	37	44.2	20	NNE
10-28-2013 1:25 PDT	39.1	46.2	21	NNE
10-28-2013 1:30 PDT	39.9	49.3	23	NNE
10-28-2013 1:35 PDT	37.6	48.4	17	NNE
10-28-2013 1:40 PDT	40.8	52.4	22	NNE
10-28-2013 1:45 PDT	34.7	41.8	16	NNE
10-28-2013 1:50 PDT	35.5	42.3	17	NNE
10-28-2013 1:55 PDT	35.5	41.2	17	NNE
10-28-2013 2:00 PDT	36.9	45.1	18	NNE
10-28-2013 2:05 PDT	38.7	45.1	18	NNE
10-28-2013 2:10 PDT	40.3	47.8	20	NNE
10-28-2013 2:15 PDT	38.6	46.2	18	NNE
10-28-2013 2:20 PDT	37.2	44.7	17	NNE
10-28-2013 2:25 PDT	39.9	45.1	18	NNE
10-28-2013 2:30 PDT	40.5	48.4	17	NNE
10-28-2013 2:35 PDT	39.6	47.3	17	NNE
10-28-2013 2:40 PDT	41.4	50.6	18	NNE
10-28-2013 2:45 PDT	40.8	47.5	18	NNE
10-28-2013 2:50 PDT	40.5	50.8	17	NNE
10-28-2013 2:55 PDT	38.3	42.9	16	NNE
10-28-2013 3:00 PDT	40.5	45.6	13	NNE
10-28-2013 3:05 PDT	42	48.6	15	NNE
10-28-2013 3:10 PDT	41.3	48.4	17	NNE
10-28-2013 3:15 PDT	43.1	53.4	18	NNE
10-28-2013 3:20 PDT	42.4	48.8	16	NNE
10-28-2013 3:25 PDT	41.9	47.3	17	NNE
10-28-2013 3:30 PDT	41.7	46.9	14	NNE
10-28-2013 3:35 PDT	43.8	50.6	14	NNE
10-28-2013 3:40 PDT	42.4	47.8	16	NNE
10-28-2013 3:45 PDT	43.3	50.4	17	NNE
10-28-2013 3:50 PDT	41.5	47.3	15	NNE
10-28-2013 3:55 PDT	43	51	14	NNE
10-28-2013 4:00 PDT	41.6	50.4	16	NNE
10-28-2013 4:05 PDT	44.1	56.1	18	NNE
10-28-2013 4:10 PDT	42.3	50.2	14	NNE
10-28-2013 4:15 PDT	45.7	52.4	17	NNE
10-28-2013 4:20 PDT	46	54.3	14	NNE
10-28-2013 4:25 PDT	46.6	56.3	14	NNE

BPKEN	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 4:30 PDT	48.1	57.4	15	NNE
10-28-2013 4:35 PDT	45.4	55.9	13	NNE
10-28-2013 4:40 PDT	41.1	48	10	N
10-28-2013 4:45 PDT	43.4	50.6	9	N
10-28-2013 4:50 PDT	43.8	50.6	10	N
10-28-2013 4:55 PDT	43.9	50.6	11	N
10-28-2013 5:00 PDT	43.9	50.2	13	NNE
10-28-2013 5:05 PDT	44.5	52.1	13	NNE
10-28-2013 5:10 PDT	45.8	53	11	N
10-28-2013 5:15 PDT	47.9	57.6	10	N
10-28-2013 5:20 PDT	45.6	54.1	11	N
10-28-2013 5:25 PDT	45.1	52.1	12	NNE
10-28-2013 5:30 PDT	46.3	53.9	11	N
10-28-2013 5:35 PDT	47.3	59.4	8	N
10-28-2013 5:40 PDT	49	55.9	11	N
10-28-2013 5:45 PDT	48.1	54.8	10	N
10-28-2013 5:50 PDT	48.4	54.3	13	NNE
10-28-2013 5:55 PDT	49.3	57.2	10	N
10-28-2013 6:00 PDT	51.3	59.1	9	N
10-28-2013 6:05 PDT	49.6	60.9	11	N
10-28-2013 6:10 PDT	49.7	58	12	NNE
10-28-2013 6:15 PDT	51.3	58.5	13	NNE
10-28-2013 6:20 PDT	53.3	60.2	13	NNE
10-28-2013 6:25 PDT	54.6	64.6	14	NNE
10-28-2013 6:30 PDT	54.2	61.3	13	NNE
10-28-2013 6:35 PDT	55.3	62	14	NNE
10-28-2013 6:40 PDT	52.6	60.9	15	NNE
10-28-2013 6:45 PDT	53.9	60.9	16	NNE
10-28-2013 6:50 PDT	51.4	57.8	16	NNE
10-28-2013 6:55 PDT	55.4	62.4	16	NNE
10-28-2013 7:00 PDT	54.3	61.8	15	NNE
10-28-2013 7:05 PDT	52.6	61.3	15	NNE
10-28-2013 7:10 PDT	52.2	62.9	14	NNE
10-28-2013 7:15 PDT	53	62.2	14	NNE
10-28-2013 7:20 PDT	51.2	59.1	17	NNE
10-28-2013 7:25 PDT	49	56.1	18	NNE
10-28-2013 7:30 PDT	50	57.4	15	NNE
10-28-2013 7:35 PDT	48.8	58	15	NNE
10-28-2013 7:40 PDT	50.3	58.5	13	NNE
10-28-2013 7:45 PDT	52.7	60	14	NNE
10-28-2013 7:50 PDT	52.7	62.6	15	NNE
10-28-2013 7:55 PDT	49	57.2	14	NNE
10-28-2013 8:00 PDT	47.6	53.7	15	NNE
10-28-2013 8:05 PDT	46.2	52.1	14	NNE
10-28-2013 8:10 PDT	48	56.7	14	NNE
10-28-2013 8:15 PDT	47.2	53.7	15	NNE

BPKEN	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 8:20 PDT	47	53.7	14	NNE
10-28-2013 8:25 PDT	47.3	54.8	15	NNE
10-28-2013 8:30 PDT	46	56.3	14	NNE
10-28-2013 8:35 PDT	47.9	54.8	14	NNE
10-28-2013 8:40 PDT	46.5	54.5	17	NNE
10-28-2013 8:45 PDT	47.1	54.8	14	NNE
10-28-2013 8:50 PDT	47.8	55.9	16	NNE
10-28-2013 8:55 PDT	46.2	52.8	15	NNE
10-28-2013 9:00 PDT	49.9	57.2	13	NNE
10-28-2013 9:05 PDT	49.1	56.3	15	NNE
10-28-2013 9:10 PDT	47.9	56.1	13	NNE
10-28-2013 9:15 PDT	46.3	53.7	14	NNE
10-28-2013 9:20 PDT	45.8	55	14	NNE
10-28-2013 9:25 PDT	46.2	51.9	12	NNE
10-28-2013 9:30 PDT	45	53.4	13	NNE
10-28-2013 9:35 PDT	44.8	49.9	14	NNE
10-28-2013 9:40 PDT	42.3	50.2	13	NNE
10-28-2013 9:45 PDT	42.4	50.4	12	NNE
10-28-2013 9:50 PDT	43	48.8	14	NNE
10-28-2013 9:55 PDT	42.7	49.3	14	NNE
10-28-2013 10:00 PDT	42	49.7	16	NNE
10-28-2013 10:05 PDT	42.3	49.7	14	NNE
10-28-2013 10:10 PDT	41.8	46.9	15	NNE
10-28-2013 10:15 PDT	41.9	48.8	15	NNE
10-28-2013 10:20 PDT	40.2	46	17	NNE
10-28-2013 10:25 PDT	38	42.7	14	NNE
10-28-2013 10:30 PDT	38.1	46	15	NNE
10-28-2013 10:35 PDT	37.2	42.5	14	NNE
10-28-2013 10:40 PDT	36.4	41.8	14	NNE
10-28-2013 10:45 PDT	37.3	45.1	12	NNE
10-28-2013 10:50 PDT	38	43.2	8	N
10-28-2013 10:55 PDT	37.3	42.3	11	N
10-28-2013 11:00 PDT	36.2	42.3	8	N
10-28-2013 11:05 PDT	39	42.5	8	N
10-28-2013 11:10 PDT	40	44.2	8	N
10-28-2013 11:15 PDT	39.9	44.5	10	N
10-28-2013 11:20 PDT	39.2	44.7	12	NNE
10-28-2013 11:25 PDT	40.4	45.1	8	N
10-28-2013 11:30 PDT	39.7	44.7	12	NNE
10-28-2013 11:35 PDT	39.9	44.9	9	N
10-28-2013 11:40 PDT	40.8	45.8	7	N
10-28-2013 11:45 PDT	40.4	45.3	9	N
10-28-2013 11:50 PDT	40.3	48	13	NNE
10-28-2013 11:55 PDT	40.3	44.7	10	N
10-28-2013 12:00 PDT	41.1	44.9	8	N
10-28-2013 12:05 PDT	42.2	46.4	10	N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 12:10 PDT	41.2	46.4	8	N
10-28-2013 12:15 PDT	42.2	47.5	8	N
10-28-2013 12:20 PDT	39.6	47.5	8	N
10-28-2013 12:25 PDT	39.5	46	9	N
10-28-2013 12:30 PDT	41.7	48.4	9	N
10-28-2013 12:35 PDT	44.2	49.3	6	N
10-28-2013 12:40 PDT	42.5	48.6	9	N
10-28-2013 12:45 PDT	40.3	47.1	9	N
10-28-2013 12:50 PDT	41.3	46.4	9	N
10-28-2013 12:55 PDT	42.9	51.9	11	N
10-28-2013 13:00 PDT	44.6	50.2	18	NNE
10-28-2013 13:05 PDT	44.2	51	13	NNE
10-28-2013 13:10 PDT	45.9	50.2	11	N
10-28-2013 13:15 PDT	43.3	47.8	10	N
10-28-2013 13:20 PDT	43.4	48.8	11	N
10-28-2013 13:25 PDT	41.6	48	13	NNE
10-28-2013 13:30 PDT	46	52.1	6	N
10-28-2013 13:35 PDT	44.9	50.6	8	N
10-28-2013 13:40 PDT	44.3	48.6	7	N
10-28-2013 13:45 PDT	42.6	47.3	16	NNE
10-28-2013 13:50 PDT	42.6	46.2	11	N
10-28-2013 13:55 PDT	44.3	48.8	8	N
10-28-2013 14:00 PDT	43.3	47.5	12	NNE
10-28-2013 14:05 PDT	41	48.4	10	N
10-28-2013 14:10 PDT	39.6	48.6	5	N
10-28-2013 14:15 PDT	43.9	50.6	6	N
10-28-2013 14:20 PDT	41.3	45.8	8	N
10-28-2013 14:25 PDT	42.3	46	12	NNE
10-28-2013 14:30 PDT	41.9	47.5	10	N
10-28-2013 14:35 PDT	43.5	48.6	12	NNE
10-28-2013 14:40 PDT	41.1	47.8	16	NNE
10-28-2013 14:45 PDT	37.8	44.9	7	N
10-28-2013 14:50 PDT	40.4	45.6	10	N
10-28-2013 14:55 PDT	42.5	47.1	8	N
10-28-2013 15:00 PDT	39.9	45.6	14	NNE
10-28-2013 15:05 PDT	42.1	47.1	7	N
10-28-2013 15:10 PDT	38.8	44.5	10	N
10-28-2013 15:15 PDT	42.4	47.3	8	N
10-28-2013 15:20 PDT	41.3	45.6	8	N
10-28-2013 15:25 PDT	40.4	45.1	6	N
10-28-2013 15:30 PDT	40.7	47.5	12	NNE
10-28-2013 15:35 PDT	43.1	47.3	14	NNE
10-28-2013 15:40 PDT	43	47.3	9	N
10-28-2013 15:45 PDT	45.3	48.6	8	N
10-28-2013 15:50 PDT	42.5	46.9	7	N
10-28-2013 15:55 PDT	40.3	45.3	9	N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 16:00 PDT	40.3	44.7	10	N
10-28-2013 16:05 PDT	40.5	47.1	9	N
10-28-2013 16:10 PDT	40.6	47.3	11	N
10-28-2013 16:15 PDT	36.4	45.3	6	N
10-28-2013 16:20 PDT	41.7	48.6	6	N
10-28-2013 16:25 PDT	39.1	43.2	6	N
10-28-2013 16:30 PDT	34.5	40.1	7	N
10-28-2013 16:35 PDT	33.8	39.6	8	N
10-28-2013 16:40 PDT	35.5	40.7	8	N
10-28-2013 16:45 PDT	38.7	44.2	12	NNE
10-28-2013 16:50 PDT	40.1	44.7	11	N
10-28-2013 16:55 PDT	36.7	42.5	9	N
10-28-2013 17:00 PDT	39.8	44.2	9	N
10-28-2013 17:05 PDT	35.4	40.1	10	N
10-28-2013 17:10 PDT	38.2	42.7	12	NNE
10-28-2013 17:15 PDT	36.2	42.9	10	N
10-28-2013 17:20 PDT	39.7	44.9	7	N
10-28-2013 17:25 PDT	37.8	45.3	9	N
10-28-2013 17:30 PDT	31.4	37.2	6	N
10-28-2013 17:35 PDT	31.6	35.7	5	N
10-28-2013 17:40 PDT	31.3	38.3	3	N
10-28-2013 17:45 PDT	34.7	39.2	4	N
10-28-2013 17:50 PDT	31.1	38.8	1	N
10-28-2013 17:55 PDT	30	38.3	4	N
10-28-2013 18:00 PDT	34.1	39.6	3	N
10-28-2013 18:05 PDT	31.3	39.9	6	N
10-28-2013 18:10 PDT	33.3	40.1	3	N
10-28-2013 18:15 PDT	34.6	40.5	4	N
10-28-2013 18:20 PDT	33.6	39.4	4	N
10-28-2013 18:25 PDT	30.2	39.4	3	N
10-28-2013 18:30 PDT	30.3	36.8	4	N
10-28-2013 18:35 PDT	31.2	36.1	5	N
10-28-2013 18:40 PDT	30	35.7	4	N
10-28-2013 18:45 PDT	29.9	36.6	3	N
10-28-2013 18:50 PDT	28.5	36.1	8	N
10-28-2013 18:55 PDT	30.2	36.4	8	N
10-28-2013 19:00 PDT	30	38.1	8	N
10-28-2013 19:05 PDT	29.7	37.9	8	N
10-28-2013 19:10 PDT	32.9	42.1	9	N
10-28-2013 19:15 PDT	31.3	37	9	N
10-28-2013 19:20 PDT	33.4	38.6	11	N
10-28-2013 19:25 PDT	32.9	38.8	7	N
10-28-2013 19:30 PDT	28.5	35.1	7	N
10-28-2013 19:35 PDT	30.3	37.9	9	N
10-28-2013 19:40 PDT	31	38.3	9	N
10-28-2013 19:45 PDT	29.7	40.1	9	N

BPKEN

	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 19:50 PDT	29.3	39	10	N
10-28-2013 19:55 PDT	29.2	38.1	9	N
10-28-2013 20:00 PDT	28.7	36.4	12	NNE
10-28-2013 20:05 PDT	27.8	33.3	12	NNE
10-28-2013 20:10 PDT	29.1	35.9	14	NNE
10-28-2013 20:15 PDT	27.6	33.7	14	NNE
10-28-2013 20:20 PDT	26.7	33.1	11	N
10-28-2013 20:25 PDT	27.4	34.4	11	N
10-28-2013 20:30 PDT	26	33.5	12	NNE
10-28-2013 20:35 PDT	25.2	29.4	10	N
10-28-2013 20:40 PDT	26.1	33.1	11	N
10-28-2013 20:45 PDT	25.5	32	12	NNE
10-28-2013 20:50 PDT	24	29.1	12	NNE
10-28-2013 20:55 PDT	23.8	30.7	13	NNE
10-28-2013 21:00 PDT	26.4	31.5	15	NNE
10-28-2013 21:05 PDT	24.3	30.2	12	NNE
10-28-2013 21:10 PDT	27.1	33.3	12	NNE
10-28-2013 21:15 PDT	27.4	33.1	11	N
10-28-2013 21:20 PDT	25.4	32.4	13	NNE
10-28-2013 21:25 PDT	24.8	30.9	11	N
10-28-2013 21:30 PDT	26.2	31.8	9	N
10-28-2013 21:35 PDT	24.8	32.4	15	NNE
10-28-2013 21:40 PDT	23.2	28.5	13	NNE
10-28-2013 21:45 PDT	22.3	27.4	13	NNE
10-28-2013 21:50 PDT	24.3	28.5	12	NNE
10-28-2013 21:55 PDT	25	30	13	NNE
10-28-2013 22:00 PDT	24.2	30.9	14	NNE
10-28-2013 22:05 PDT	23.2	28.5	14	NNE
10-28-2013 22:10 PDT	19.9	25.2	13	NNE
10-28-2013 22:15 PDT	20	26.7	9	N
10-28-2013 22:20 PDT	19.2	24.3	10	N
10-28-2013 22:25 PDT	19.2	21.9	11	N
10-28-2013 22:30 PDT	19.3	23.4	12	NNE
10-28-2013 22:35 PDT	19.1	24.8	12	NNE
10-28-2013 22:40 PDT	17.5	21	14	NNE
10-28-2013 22:45 PDT	19.1	24.3	18	NNE
10-28-2013 22:50 PDT	20	23.4	10	N
10-28-2013 22:55 PDT	18.7	25.4	10	N
10-28-2013 23:00 PDT	18.3	24.1	7	N
10-28-2013 23:05 PDT	14.6	19.1	13	NNE
10-28-2013 23:10 PDT	15.6	19.1	18	NNE
10-28-2013 23:15 PDT	16.4	19.9	10	N
10-28-2013 23:20 PDT	16.8	22.6	11	N
10-28-2013 23:25 PDT	15.2	19.3	15	NNE
10-28-2013 23:30 PDT	14.1	17.3	10	N
10-28-2013 23:35 PDT	14.3	17.5	9	N

BPKEN	Wind Speed, mph	GUST, mph	Wind Direction °	
10-28-2013 23:40 PDT	13.4	16.7	8	N
10-28-2013 23:45 PDT	13.2	16.2	10	N
10-28-2013 23:50 PDT	12.6	14.7	8	N
10-28-2013 23:55 PDT	12.3	14.7	11	N
10-29-2013 0:00 PDT	11.7	14.2	7	N

MesoWest Disclaimer

Data provided by: Bonneville Power Administration

Contact MesoWest

BPHOR, 5-minute data, October 27-28

ID = BPHOR	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 0:00 PDT	1.7	1.9	120	ESE
10-27-2013 0:05 PDT	2	2	106	ESE
10-27-2013 0:10 PDT	2	2.1	94	E
10-27-2013 0:15 PDT	2.3	2.6	66	ENE
10-27-2013 0:20 PDT	2.5	2.6	44	NE
10-27-2013 0:25 PDT	2.1	2.4	55	NE
10-27-2013 0:30 PDT	2.8	3.3	76	ENE
10-27-2013 0:35 PDT	3.6	4	76	ENE
10-27-2013 0:40 PDT	4.9	5.5	101	E
10-27-2013 0:45 PDT	5.2	5.4	100	E
10-27-2013 0:50 PDT	5.7	5.9	109	ESE
10-27-2013 0:55 PDT	5.9	6.4	108	ESE
10-27-2013 1:00 PDT	6.7	7.5	115	ESE
10-27-2013 1:05 PDT	6.6	6.7	104	ESE
10-27-2013 1:10 PDT	6.6	7.2	110	ESE
10-27-2013 1:15 PDT	5.8	6.5	114	ESE
10-27-2013 1:20 PDT	5.8	6.1	120	ESE
10-27-2013 1:25 PDT	6.3	7.5	116	ESE
10-27-2013 1:30 PDT	5.3	6.2	106	ESE
10-27-2013 1:35 PDT	5.5	6.4	115	ESE
10-27-2013 1:40 PDT	5.1	5.9	116	ESE
10-27-2013 1:45 PDT	4.2	4.6	109	ESE
10-27-2013 1:50 PDT	3.3	4.4	73	ENE
10-27-2013 1:55 PDT	5.9	7.5	16	NNE
10-27-2013 2:00 PDT	5.4	6.3	23	NNE
10-27-2013 2:05 PDT	6.4	7	19	NNE
10-27-2013 2:10 PDT	5.8	6.4	21	NNE
10-27-2013 2:15 PDT	5.2	5.5	19	NNE
10-27-2013 2:20 PDT	3.5	5.3	26	NNE

ID = BPHOR

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 2:25 PDT	1.3	2.5	118	ESE
10-27-2013 2:30 PDT	1.9	2.8	111	ESE
10-27-2013 2:35 PDT	3.4	3.9	100	E
10-27-2013 2:40 PDT	4.2	4.7	118	ESE
10-27-2013 2:45 PDT	3.2	4.8	111	ESE
10-27-2013 2:50 PDT	3	3.8	86	E
10-27-2013 2:55 PDT	3.9	4.2	120	ESE
10-27-2013 3:00 PDT	3.2	3.6	128	SE
10-27-2013 3:05 PDT	2.1	2.7	62	ENE
10-27-2013 3:10 PDT	2.4	7.5	28	NNE
10-27-2013 3:15 PDT	4.8	8.3	4	N
10-27-2013 3:20 PDT	3.1	4.1	38	NE
10-27-2013 3:25 PDT	4.6	5.7	105	ESE
10-27-2013 3:30 PDT	5.9	6.1	123	ESE
10-27-2013 3:35 PDT	4.9	6.1	128	SE
10-27-2013 3:40 PDT	0.5	3	48	NE
10-27-2013 3:45 PDT	0.7	1	84	E
10-27-2013 3:50 PDT	1.4	1.9	127	SE
10-27-2013 3:55 PDT	2.3	2.8	144	SE
10-27-2013 4:00 PDT	4	4.8	142	SE
10-27-2013 4:05 PDT	3.3	4.6	152	SSE
10-27-2013 4:10 PDT	2.7	4	140	SE
10-27-2013 4:15 PDT	4.5	6.1	142	SE
10-27-2013 4:20 PDT	7.6	9.2	140	SE
10-27-2013 4:25 PDT	4.2	7.5	124	SE
10-27-2013 4:30 PDT	3.3	4	25	NNE
10-27-2013 4:35 PDT	2.6	3.7	67	ENE
10-27-2013 4:40 PDT	2.7	3.7	78	ENE
10-27-2013 4:45 PDT	3.2	4.2	95	E
10-27-2013 4:50 PDT	2.7	2.9	71	ENE
10-27-2013 4:55 PDT	3.1	4.4	77	ENE
10-27-2013 5:00 PDT	3.8	5	109	ESE
10-27-2013 5:05 PDT	4.9	6.2	112	ESE
10-27-2013 5:10 PDT	4.7	5.7	103	ESE
10-27-2013 5:15 PDT	5.6	7.5	102	ESE
10-27-2013 5:20 PDT	6.5	8.1	102	ESE
10-27-2013 5:25 PDT	5.5	6.6	102	ESE
10-27-2013 5:30 PDT	4.6	6.1	96	E
10-27-2013 5:35 PDT	5.5	7.2	104	ESE
10-27-2013 5:40 PDT	6.9	8.8	120	ESE
10-27-2013 5:45 PDT	7.1	9.6	114	ESE
10-27-2013 5:50 PDT	7.9	10.3	113	ESE
10-27-2013 5:55 PDT	9.7	11.8	126	SE
10-27-2013 6:00 PDT	8.2	10	126	SE
10-27-2013 6:05 PDT	5.8	7.7	119	ESE

ID = BPHOR

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 6:10 PDT	6	6.1	104	ESE
10-27-2013 6:15 PDT	5.9	7.2	110	ESE
10-27-2013 6:20 PDT	6	7.7	118	ESE
10-27-2013 6:25 PDT	6.8	9.9	137	SE
10-27-2013 6:30 PDT	6.7	10.1	116	ESE
10-27-2013 6:35 PDT	5.2	7.2	78	ENE
10-27-2013 6:40 PDT	4	4.8	59	ENE
10-27-2013 6:45 PDT	1.6	3.5	21	NNE
10-27-2013 6:50 PDT	0.5	3.1	166	SSE
10-27-2013 6:55 PDT	0.5	2.4	335	NNW
10-27-2013 7:00 PDT	2.5	6.8	233	SW
10-27-2013 7:05 PDT	5.6	9.6	209	SSW
10-27-2013 7:10 PDT	8.6	14.2	200	SSW
10-27-2013 7:15 PDT	13.4	16.7	204	SSW
10-27-2013 7:20 PDT	12.3	16.4	213	SSW
10-27-2013 7:25 PDT	10.4	13.2	220	SW
10-27-2013 7:30 PDT	10	13.4	223	SW
10-27-2013 7:35 PDT	9.5	13.4	234	SW
10-27-2013 7:40 PDT	11.2	14	227	SW
10-27-2013 7:45 PDT	9.3	13.8	225	SW
10-27-2013 7:50 PDT	7.6	11.6	224	SW
10-27-2013 7:55 PDT	7.5	11.2	217	SW
10-27-2013 8:00 PDT	6.8	10.3	242	WSW
10-27-2013 8:05 PDT	6.5	9	246	WSW
10-27-2013 8:10 PDT	6.2	8.6	245	WSW
10-27-2013 8:15 PDT	5.1	7.7	317	NW
10-27-2013 8:20 PDT	6.9	8.3	345	NNW
10-27-2013 8:25 PDT	8.2	12.1	355	N
10-27-2013 8:30 PDT	3.8	4.9	4	N
10-27-2013 8:35 PDT	3.1	4	35	NE
10-27-2013 8:40 PDT	3.2	4.3	29	NNE
10-27-2013 8:45 PDT	4.2	5.3	20	NNE
10-27-2013 8:50 PDT	2.7	4.4	52	NE
10-27-2013 8:55 PDT	3.3	5.9	138	SE
10-27-2013 9:00 PDT	2	4.4	175	S
10-27-2013 9:05 PDT	1.3	5.7	285	WNW
10-27-2013 9:10 PDT	4.1	5.9	275	W
10-27-2013 9:15 PDT	2.8	5.3	243	WSW
10-27-2013 9:20 PDT	4	6.1	272	W
10-27-2013 9:25 PDT	4.5	5.5	290	WNW
10-27-2013 9:30 PDT	4.3	5.7	293	WNW
10-27-2013 9:35 PDT	4.5	8.1	305	NW
10-27-2013 9:40 PDT	3.6	5.5	303	WNW
10-27-2013 9:45 PDT	2.9	4.2	262	W
10-27-2013 9:50 PDT	3.6	4	259	W

ID = BPHOR

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 9:55 PDT	2.8	4.8	323	NW
10-27-2013 10:00 PDT	4.1	5.7	0	N
10-27-2013 10:05 PDT	4.9	5.5	324	NW
10-27-2013 10:10 PDT	4.8	5.4	344	NNW
10-27-2013 10:15 PDT	4.9	5.5	319	NW
10-27-2013 10:20 PDT	4.3	5.7	322	NW
10-27-2013 10:25 PDT	5	6.1	335	NNW
10-27-2013 10:30 PDT	5.6	6.6	324	NW
10-27-2013 10:35 PDT	4.2	5.5	308	NW
10-27-2013 10:40 PDT	4.7	7	284	WNW
10-27-2013 10:45 PDT	6.6	8.3	291	WNW
10-27-2013 10:50 PDT	6.9	8	300	WNW
10-27-2013 10:55 PDT	6.6	7.2	305	NW
10-27-2013 11:00 PDT	6.1	7.7	312	NW
10-27-2013 11:05 PDT	5.4	7.2	315	NW
10-27-2013 11:10 PDT	6.3	7.5	323	NW
10-27-2013 11:15 PDT	5.8	7.9	319	NW
10-27-2013 11:20 PDT	7.4	9.6	326	NW
10-27-2013 11:25 PDT	9.4	11.6	345	NNW
10-27-2013 11:30 PDT	9.3	12.1	339	NNW
10-27-2013 11:35 PDT	9.8	11.8	341	NNW
10-27-2013 11:40 PDT	8.7	12.1	338	NNW
10-27-2013 11:45 PDT	7.6	10.3	358	N
10-27-2013 11:50 PDT	2.6	3.8	18	NNE
10-27-2013 11:55 PDT	4	5.9	25	NNE
10-27-2013 12:00 PDT	5.6	8.1	22	NNE
10-27-2013 12:05 PDT	4.6	6.4	6	N
10-27-2013 12:10 PDT	4.3	5.7	1	N
10-27-2013 12:15 PDT	5.2	5.9	2	N
10-27-2013 12:20 PDT	4.6	6.4	355	N
10-27-2013 12:25 PDT	5.1	6.6	360	N
10-27-2013 12:30 PDT	5.6	7.9	336	NNW
10-27-2013 12:35 PDT	5.1	7.2	336	NNW
10-27-2013 12:40 PDT	6.9	9.2	323	NW
10-27-2013 12:45 PDT	7.3	10.3	325	NW
10-27-2013 12:50 PDT	8.1	11.2	352	N
10-27-2013 12:55 PDT	8.4	12.3	354	N
10-27-2013 13:00 PDT	7.7	10.5	10	N
10-27-2013 13:05 PDT	8.6	12.5	26	NNE
10-27-2013 13:10 PDT	9.1	13.6	10	N
10-27-2013 13:15 PDT	7.6	10.9	360	N
10-27-2013 13:20 PDT	8.5	10.3	16	NNE
10-27-2013 13:25 PDT	9	11	16	NNE
10-27-2013 13:30 PDT	8.6	10.5	21	NNE
10-27-2013 13:35 PDT	8.3	11.6	17	NNE

ID = BPHOR

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 13:40 PDT	8.7	12.1	19	NNE
10-27-2013 13:45 PDT	9.9	12.9	21	NNE
10-27-2013 13:50 PDT	9.4	11.2	20	NNE
10-27-2013 13:55 PDT	9	10.7	16	NNE
10-27-2013 14:00 PDT	9.1	10.1	15	NNE
10-27-2013 14:05 PDT	7.9	10.5	27	NNE
10-27-2013 14:10 PDT	8.4	10.7	25	NNE
10-27-2013 14:15 PDT	7	9.9	12	NNE
10-27-2013 14:20 PDT	6.1	7.7	354	N
10-27-2013 14:25 PDT	6.7	8.6	359	N
10-27-2013 14:30 PDT	6.4	8.3	8	N
10-27-2013 14:35 PDT	5.7	7.7	21	NNE
10-27-2013 14:40 PDT	5.9	7.7	34	NE
10-27-2013 14:45 PDT	5.5	6.4	41	NE
10-27-2013 14:50 PDT	4.9	6.4	39	NE
10-27-2013 14:55 PDT	5.2	6.8	31	NNE
10-27-2013 15:00 PDT	5.8	6.8	20	NNE
10-27-2013 15:05 PDT	5.1	6.1	22	NNE
10-27-2013 15:10 PDT	4.4	5.7	34	NE
10-27-2013 15:15 PDT	4.3	4.4	44	NE
10-27-2013 15:20 PDT	3.8	4.2	58	ENE
10-27-2013 15:25 PDT	4.5	4.8	59	ENE
10-27-2013 15:30 PDT	4.6	5	57	ENE
10-27-2013 15:35 PDT	3.5	4	56	NE
10-27-2013 15:40 PDT	4.2	4.6	39	NE
10-27-2013 15:45 PDT	4	4.8	21	NNE
10-27-2013 15:50 PDT	4	6.1	5	N
10-27-2013 15:55 PDT	5	7.2	345	NNW
10-27-2013 16:00 PDT	5.9	7.5	303	WNW
10-27-2013 16:05 PDT	6.8	8.6	317	NW
10-27-2013 16:10 PDT	8	10.1	316	NW
10-27-2013 16:15 PDT	8.7	10.7	318	NW
10-27-2013 16:20 PDT	8.2	10.7	316	NW
10-27-2013 16:25 PDT	7.9	10.5	319	NW
10-27-2013 16:30 PDT	6.8	9	321	NW
10-27-2013 16:35 PDT	6.3	7.9	330	NNW
10-27-2013 16:40 PDT	7.1	8.6	328	NNW
10-27-2013 16:45 PDT	7.2	8.1	334	NNW
10-27-2013 16:50 PDT	7	9	333	NNW
10-27-2013 16:55 PDT	7.4	8.6	339	NNW
10-27-2013 17:00 PDT	7.1	7.9	335	NNW
10-27-2013 17:05 PDT	6.9	8.3	327	NNW
10-27-2013 17:10 PDT	7.5	8.5	324	NW
10-27-2013 17:15 PDT	8.4	8.8	316	NW
10-27-2013 17:20 PDT	8.9	9.2	315	NW

ID = BPHOR

	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 17:25 PDT	9.4	9.6	317	NW
10-27-2013 17:30 PDT	9.3	9.6	321	NW
10-27-2013 17:35 PDT	9	9.4	317	NW
10-27-2013 17:40 PDT	9.5	9.9	318	NW
10-27-2013 17:45 PDT	8.8	9.9	319	NW
10-27-2013 17:50 PDT	8	9	317	NW
10-27-2013 17:55 PDT	6.9	7.7	315	NW
10-27-2013 18:00 PDT	7	8.3	315	NW
10-27-2013 18:05 PDT	7.7	8.1	317	NW
10-27-2013 18:10 PDT	7.1	7.9	324	NW
10-27-2013 18:15 PDT	7.1	7.5	326	NW
10-27-2013 18:20 PDT	7.2	11	337	NNW
10-27-2013 18:25 PDT	7.6	10.7	347	NNW
10-27-2013 18:30 PDT	7.6	10.7	356	N
10-27-2013 18:35 PDT	10.5	17.1	13	NNE
10-27-2013 18:40 PDT	11.7	15.3	27	NNE
10-27-2013 18:45 PDT	10.2	14.7	27	NNE
10-27-2013 18:50 PDT	11.5	17.3	23	NNE
10-27-2013 18:55 PDT	14.5	18	25	NNE
10-27-2013 19:00 PDT	13.4	16.4	25	NNE
10-27-2013 19:05 PDT	11.9	14.2	27	NNE
10-27-2013 19:10 PDT	11.3	14.9	15	NNE
10-27-2013 19:15 PDT	10.9	14	14	NNE
10-27-2013 19:20 PDT	12.2	21	18	NNE
10-27-2013 19:25 PDT	14.3	19.9	25	NNE
10-27-2013 19:30 PDT	13.4	16.7	32	NNE
10-27-2013 19:35 PDT	9.3	12.7	38	NE
10-27-2013 19:40 PDT	10.1	15.1	40	NE
10-27-2013 19:45 PDT	9.3	14.9	44	NE
10-27-2013 19:50 PDT	8.9	11.8	39	NE
10-27-2013 19:55 PDT	8.8	11.4	47	NE
10-27-2013 20:00 PDT	8.7	10.5	48	NE
10-27-2013 20:05 PDT	8.2	10.1	45	NE
10-27-2013 20:10 PDT	7.8	9.2	47	NE
10-27-2013 20:15 PDT	7.9	9.1	48	NE
10-27-2013 20:20 PDT	8.4	10.5	47	NE
10-27-2013 20:25 PDT	7.7	9.9	48	NE
10-27-2013 20:30 PDT	6.7	7.7	43	NE
10-27-2013 20:35 PDT	6.7	8.6	42	NE
10-27-2013 20:40 PDT	6.7	8.1	43	NE
10-27-2013 20:45 PDT	7.1	10.1	31	NNE
10-27-2013 20:50 PDT	8.9	10.7	20	NNE
10-27-2013 20:55 PDT	9.7	11.4	11	N
10-27-2013 21:00 PDT	9.5	13.2	6	N
10-27-2013 21:05 PDT	10.1	13.8	6	N

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	Wind Speed, mph	GUST, mph	Wind Direction, °	
10-27-2013 21:10 PDT	12.7	18.4	7	N
10-27-2013 21:15 PDT	15.4	18.8	9	N
10-27-2013 21:20 PDT	15.6	21	8	N
10-27-2013 21:25 PDT	15.4	20.2	10	N
10-27-2013 21:30 PDT	15.1	19.9	13	NNE
10-27-2013 21:35 PDT	14.6	19.7	11	N
10-27-2013 21:40 PDT	16.7	23	11	N
10-27-2013 21:45 PDT	18	22.1	10	N
10-27-2013 21:50 PDT	17.8	24.8	11	N
10-27-2013 21:55 PDT	18.1	23.9	10	N
10-27-2013 22:00 PDT	20.1	25.9	9	N
10-27-2013 22:05 PDT	21.4	29.6	11	N
10-27-2013 22:10 PDT	21.2	29.6	13	NNE
10-27-2013 22:15 PDT	22.1	29.8	12	NNE
10-27-2013 22:20 PDT	22.1	27.4	10	N
10-27-2013 22:25 PDT	22.7	29.6	7	N
10-27-2013 22:30 PDT	23.1	30.5	9	N
10-27-2013 22:35 PDT	22.9	28.9	8	N
10-27-2013 22:40 PDT	23.6	29.4	10	N
10-27-2013 22:45 PDT	24.9	30	10	N
10-27-2013 22:50 PDT	24.8	31.1	9	N
10-27-2013 22:55 PDT	24.5	30	11	N
10-27-2013 23:00 PDT	24.3	30.2	11	N
10-27-2013 23:05 PDT	23.1	31.8	11	N
10-27-2013 23:10 PDT	24.7	33.1	13	NNE
10-27-2013 23:15 PDT	25.5	31.1	10	N
10-27-2013 23:20 PDT	25.5	31.8	8	N
10-27-2013 23:25 PDT	24.9	34	11	N
10-27-2013 23:30 PDT	23.4	29.1	10	N
10-27-2013 23:35 PDT	22.3	28.3	10	N
10-27-2013 23:40 PDT	23.9	31.8	11	N
10-27-2013 23:45 PDT	25.7	33.1	10	N
10-27-2013 23:50 PDT	27.5	37.2	12	NNE
10-27-2013 23:55 PDT	29	36.8	13	NNE
10-28-2013 0:00 PDT	27	34.6	13	NNE

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	Wind Speed, mph	GUST, mph	Wind Direction, °	5 minute data
10-28-2013 0:00 PDT	27	34.6	13	NNE
10-28-2013 0:05 PDT	25.1	33.7	15	NNE
10-28-2013 0:10 PDT	23.9	32	16	NNE
10-28-2013 0:15 PDT	24.9	33.3	19	NNE
10-28-2013 0:20 PDT	22.3	29.6	19	NNE

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	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 0:25 PDT	22.4	31.1	17	NNE
10-28-2013 0:30 PDT	21.7	31.1	21	NNE
10-28-2013 0:35 PDT	24.2	35.9	21	NNE
10-28-2013 0:40 PDT	31.3	43.8	25	NNE
10-28-2013 0:45 PDT	33.5	43.4	25	NNE
10-28-2013 0:50 PDT	32.2	40.1	27	NNE
10-28-2013 0:55 PDT	25.3	33.3	17	NNE
10-28-2013 1:00 PDT	28.4	37.2	18	NNE
10-28-2013 1:05 PDT	28.1	38.3	16	NNE
10-28-2013 1:10 PDT	31.2	41	18	NNE
10-28-2013 1:15 PDT	31.7	44.2	20	NNE
10-28-2013 1:20 PDT	32.5	46.9	22	NNE
10-28-2013 1:25 PDT	30.1	42.3	20	NNE
10-28-2013 1:30 PDT	30.9	39.9	23	NNE
10-28-2013 1:35 PDT	29.2	41.8	22	NNE
10-28-2013 1:40 PDT	31	40.7	19	NNE
10-28-2013 1:45 PDT	32.3	44.2	19	NNE
10-28-2013 1:50 PDT	32.4	42.5	17	NNE
10-28-2013 1:55 PDT	33.1	44.2	18	NNE
10-28-2013 2:00 PDT	33.9	42.5	17	NNE
10-28-2013 2:05 PDT	31.7	41.6	16	NNE
10-28-2013 2:10 PDT	32.1	40.1	15	NNE
10-28-2013 2:15 PDT	33.6	42.1	12	NNE
10-28-2013 2:20 PDT	32.4	47.3	13	NNE
10-28-2013 2:25 PDT	32.9	44.2	15	NNE
10-28-2013 2:30 PDT	31	41.4	17	NNE
10-28-2013 2:35 PDT	32.6	41.2	17	NNE
10-28-2013 2:40 PDT	34.5	44.2	16	NNE
10-28-2013 2:45 PDT	31.6	41.4	15	NNE
10-28-2013 2:50 PDT	30.2	40.7	18	NNE
10-28-2013 2:55 PDT	30.7	42.3	20	NNE
10-28-2013 3:00 PDT	30.1	44	21	NNE
10-28-2013 3:05 PDT	31.6	40.1	18	NNE
10-28-2013 3:10 PDT	31.2	39.4	18	NNE
10-28-2013 3:15 PDT	30.9	40.7	20	NNE
10-28-2013 3:20 PDT	28.9	37.9	20	NNE
10-28-2013 3:25 PDT	30.6	40.3	20	NNE
10-28-2013 3:30 PDT	29.3	38.3	22	NNE
10-28-2013 3:35 PDT	30.3	41.6	19	NNE
10-28-2013 3:40 PDT	28.2	36.1	17	NNE
10-28-2013 3:45 PDT	27.3	35.7	17	NNE
10-28-2013 3:50 PDT	27.9	39.2	16	NNE
10-28-2013 3:55 PDT	27.6	37.9	14	NNE
10-28-2013 4:00 PDT	26.9	34.2	16	NNE
10-28-2013 4:05 PDT	28.2	38.6	17	NNE
10-28-2013 4:10 PDT	30	40.7	17	NNE

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	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 4:15 PDT	30.6	40.1	18	NNE
10-28-2013 4:20 PDT	30.4	40.1	15	NNE
10-28-2013 4:25 PDT	30.2	39.2	17	NNE
10-28-2013 4:30 PDT	30.7	39.6	18	NNE
10-28-2013 4:35 PDT	29.8	38.8	22	NNE
10-28-2013 4:40 PDT	29.3	39.2	24	NNE
10-28-2013 4:45 PDT	27.8	39.9	24	NNE
10-28-2013 4:50 PDT	28.6	37.2	23	NNE
10-28-2013 4:55 PDT	29.7	38.6	23	NNE
10-28-2013 5:00 PDT	35.7	44	25	NNE
10-28-2013 5:05 PDT	34.6	46	25	NNE
10-28-2013 5:10 PDT	37	45.6	25	NNE
10-28-2013 5:15 PDT	33.7	42.9	25	NNE
10-28-2013 5:20 PDT	34.6	44.7	27	NNE
10-28-2013 5:25 PDT	37.4	48.6	30	NNE
10-28-2013 5:30 PDT	36	47.1	31	NNE
10-28-2013 5:35 PDT	35.5	44.7	32	NNE
10-28-2013 5:40 PDT	35.4	45.8	31	NNE
10-28-2013 5:45 PDT	36.7	45.6	31	NNE
10-28-2013 5:50 PDT	34.1	43.8	28	NNE
10-28-2013 5:55 PDT	33.3	45.3	27	NNE
10-28-2013 6:00 PDT	34.4	44.7	28	NNE
10-28-2013 6:05 PDT	34.1	44.7	27	NNE
10-28-2013 6:10 PDT	34.3	46.9	25	NNE
10-28-2013 6:15 PDT	33.8	44.5	26	NNE
10-28-2013 6:20 PDT	32.7	43.2	25	NNE
10-28-2013 6:25 PDT	32.1	40.5	24	NNE
10-28-2013 6:30 PDT	30.5	40.7	23	NNE
10-28-2013 6:35 PDT	32.7	40.3	24	NNE
10-28-2013 6:40 PDT	31.9	40.3	23	NNE
10-28-2013 6:45 PDT	30.7	42.7	25	NNE
10-28-2013 6:50 PDT	31.3	42.5	24	NNE
10-28-2013 6:55 PDT	33.3	42.5	25	NNE
10-28-2013 7:00 PDT	29.9	38.1	28	NNE
10-28-2013 7:05 PDT	31.9	41.2	29	NNE
10-28-2013 7:10 PDT	32.7	39.4	26	NNE
10-28-2013 7:15 PDT	30.8	41.2	27	NNE
10-28-2013 7:20 PDT	31.9	40.5	25	NNE
10-28-2013 7:25 PDT	28.9	38.8	26	NNE
10-28-2013 7:30 PDT	31.7	39.9	25	NNE
10-28-2013 7:35 PDT	30.9	41.2	26	NNE
10-28-2013 7:40 PDT	28.6	40.7	26	NNE
10-28-2013 7:45 PDT	28.7	38.8	25	NNE
10-28-2013 7:50 PDT	29.3	37	25	NNE
10-28-2013 7:55 PDT	30.1	41.6	24	NNE
10-28-2013 8:00 PDT	29.5	37	26	NNE

ID = BPHOR

		Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013	8:05 PDT	29.4	39.4	26	NNE
10-28-2013	8:10 PDT	32.2	38.8	28	NNE
10-28-2013	8:15 PDT	31.4	41.4	27	NNE
10-28-2013	8:20 PDT	30.2	37	29	NNE
10-28-2013	8:25 PDT	29.7	36.8	30	NNE
10-28-2013	8:30 PDT	30.2	37.7	28	NNE
10-28-2013	8:35 PDT	29.1	39	29	NNE
10-28-2013	8:40 PDT	31.2	40.7	28	NNE
10-28-2013	8:45 PDT	29.7	37.5	25	NNE
10-28-2013	8:50 PDT	30.3	39	26	NNE
10-28-2013	8:55 PDT	28.4	35.3	25	NNE
10-28-2013	9:00 PDT	29.4	40.1	26	NNE
10-28-2013	9:05 PDT	29.7	40.5	24	NNE
10-28-2013	9:10 PDT	29	40.7	24	NNE
10-28-2013	9:15 PDT	27.6	35.7	22	NNE
10-28-2013	9:20 PDT	28.5	36.1	20	NNE
10-28-2013	9:25 PDT	29.4	37.7	17	NNE
10-28-2013	9:30 PDT	25.3	34.2	18	NNE
10-28-2013	9:35 PDT	24.9	36.1	19	NNE
10-28-2013	9:40 PDT	26.9	37	19	NNE
10-28-2013	9:45 PDT	26.6	35.9	19	NNE
10-28-2013	9:50 PDT	27.9	40.1	22	NNE
10-28-2013	9:55 PDT	25.5	34.8	20	NNE
10-28-2013	10:00 PDT	26.9	36.4	21	NNE
10-28-2013	10:05 PDT	27.5	34.6	20	NNE
10-28-2013	10:10 PDT	27.3	35.7	17	NNE
10-28-2013	10:15 PDT	27.3	37	19	NNE
10-28-2013	10:20 PDT	27.7	34.4	18	NNE
10-28-2013	10:25 PDT	28.2	37.5	18	NNE
10-28-2013	10:30 PDT	27.5	36.1	19	NNE
10-28-2013	10:35 PDT	28.5	37	19	NNE
10-28-2013	10:40 PDT	28.1	38.8	17	NNE
10-28-2013	10:45 PDT	26.5	38.1	19	NNE
10-28-2013	10:50 PDT	28	38.3	22	NNE
10-28-2013	10:55 PDT	28.7	38.8	15	NNE
10-28-2013	11:00 PDT	26.8	36.6	19	NNE
10-28-2013	11:05 PDT	26.9	36.4	16	NNE
10-28-2013	11:10 PDT	25.7	34.6	16	NNE
10-28-2013	11:15 PDT	27	36.1	21	NNE
10-28-2013	11:20 PDT	26.7	34.6	19	NNE
10-28-2013	11:25 PDT	26.3	37	17	NNE
10-28-2013	11:30 PDT	26.6	34.4	18	NNE
10-28-2013	11:35 PDT	25.9	35.5	16	NNE
10-28-2013	11:40 PDT	26	35.1	18	NNE
10-28-2013	11:45 PDT	25.8	34	16	NNE
10-28-2013	11:50 PDT	25	33.3	16	NNE

ID = BPHOR

	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 11:55 PDT	23.5	30.2	19	NNE
10-28-2013 12:00 PDT	28.6	39.2	18	NNE
10-28-2013 12:05 PDT	29	38.3	21	NNE
10-28-2013 12:10 PDT	25.2	37.5	25	NNE
10-28-2013 12:15 PDT	29.5	37	25	NNE
10-28-2013 12:20 PDT	28.6	37.9	30	NNE
10-28-2013 12:25 PDT	26.9	35.1	26	NNE
10-28-2013 12:30 PDT	27.9	37.5	21	NNE
10-28-2013 12:35 PDT	27.1	36.1	23	NNE
10-28-2013 12:40 PDT	25.9	34	23	NNE
10-28-2013 12:45 PDT	25.2	34.6	21	NNE
10-28-2013 12:50 PDT	23.5	32.9	16	NNE
10-28-2013 12:55 PDT	24.8	34.4	18	NNE
10-28-2013 13:00 PDT	26.7	35.9	20	NNE
10-28-2013 13:05 PDT	26.1	33.7	18	NNE
10-28-2013 13:10 PDT	24.5	31.5	18	NNE
10-28-2013 13:15 PDT	22.7	29.8	20	NNE
10-28-2013 13:20 PDT	24	32.6	11	N
10-28-2013 13:25 PDT	24.5	33.7	15	NNE
10-28-2013 13:30 PDT	22.4	30.5	17	NNE
10-28-2013 13:35 PDT	24.8	33.7	21	NNE
10-28-2013 13:40 PDT	24.2	32.9	16	NNE
10-28-2013 13:45 PDT	26.8	32.4	12	NNE
10-28-2013 13:50 PDT	22.9	29.1	21	NNE
10-28-2013 13:55 PDT	23	33.7	24	NNE
10-28-2013 14:00 PDT	23.5	31.8	23	NNE
10-28-2013 14:05 PDT	24	29.8	21	NNE
10-28-2013 14:10 PDT	24.7	32.9	26	NNE
10-28-2013 14:15 PDT	26	35.5	22	NNE
10-28-2013 14:20 PDT	26.9	34.8	14	NNE
10-28-2013 14:25 PDT	25.5	33.5	21	NNE
10-28-2013 14:30 PDT	22	29.4	20	NNE
10-28-2013 14:35 PDT	25.3	32.2	10	N
10-28-2013 14:40 PDT	24	31.8	13	NNE
10-28-2013 14:45 PDT	25.9	33.5	12	NNE
10-28-2013 14:50 PDT	24.5	32.6	17	NNE
10-28-2013 14:55 PDT	24.7	30.7	17	NNE
10-28-2013 15:00 PDT	24.8	32.6	18	NNE
10-28-2013 15:05 PDT	23.6	29.6	14	NNE
10-28-2013 15:10 PDT	23.7	28.7	14	NNE
10-28-2013 15:15 PDT	23.6	32	16	NNE
10-28-2013 15:20 PDT	23.3	30.2	15	NNE
10-28-2013 15:25 PDT	22.9	28.9	20	NNE
10-28-2013 15:30 PDT	22.2	29.6	21	NNE
10-28-2013 15:35 PDT	21.8	30.5	23	NNE
10-28-2013 15:40 PDT	18.4	26.7	15	NNE

ID = BPHOR

	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 15:45 PDT	22.3	30.2	20	NNE
10-28-2013 15:50 PDT	19.8	26.9	17	NNE
10-28-2013 15:55 PDT	23.5	31.8	16	NNE
10-28-2013 16:00 PDT	25.2	31.5	13	NNE
10-28-2013 16:05 PDT	21.6	26.7	14	NNE
10-28-2013 16:10 PDT	19.2	28.7	11	N
10-28-2013 16:15 PDT	23.6	32	15	NNE
10-28-2013 16:20 PDT	24.5	31.1	12	NNE
10-28-2013 16:25 PDT	23.6	29.6	13	NNE
10-28-2013 16:30 PDT	20.4	31.1	12	NNE
10-28-2013 16:35 PDT	20	27.2	8	N
10-28-2013 16:40 PDT	23.1	30	7	N
10-28-2013 16:45 PDT	22.4	30.2	6	N
10-28-2013 16:50 PDT	22.1	28.3	6	N
10-28-2013 16:55 PDT	21.7	26.9	7	N
10-28-2013 17:00 PDT	22.2	29.4	7	N
10-28-2013 17:05 PDT	23.1	26.9	6	N
10-28-2013 17:10 PDT	20.5	26.1	6	N
10-28-2013 17:15 PDT	21	28.3	7	N
10-28-2013 17:20 PDT	22.2	27.8	7	N
10-28-2013 17:25 PDT	21	26.9	5	N
10-28-2013 17:30 PDT	21.1	28	6	N
10-28-2013 17:35 PDT	20.7	25.9	5	N
10-28-2013 17:40 PDT	20.6	25.4	5	N
10-28-2013 17:45 PDT	19.6	27.2	6	N
10-28-2013 17:50 PDT	19.5	23.9	4	N
10-28-2013 17:55 PDT	21	25.2	5	N
10-28-2013 18:00 PDT	20.5	25.9	5	N
10-28-2013 18:05 PDT	21	26.1	6	N
10-28-2013 18:10 PDT	20.7	24.1	6	N
10-28-2013 18:15 PDT	19.5	23.7	7	N
10-28-2013 18:20 PDT	18	22.3	11	N
10-28-2013 18:25 PDT	17.9	22.8	8	N
10-28-2013 18:30 PDT	17.9	21	8	N
10-28-2013 18:35 PDT	19.1	24.8	11	N
10-28-2013 18:40 PDT	18.9	23.2	11	N
10-28-2013 18:45 PDT	19.8	24.5	9	N
10-28-2013 18:50 PDT	20.9	26.1	8	N
10-28-2013 18:55 PDT	22	26.3	8	N
10-28-2013 19:00 PDT	23	26.9	8	N
10-28-2013 19:05 PDT	22.4	27.2	8	N
10-28-2013 19:10 PDT	22.2	26.1	10	N
10-28-2013 19:15 PDT	20.6	25.4	10	N
10-28-2013 19:20 PDT	21.3	28.7	10	N
10-28-2013 19:25 PDT	22.3	28.7	14	NNE
10-28-2013 19:30 PDT	22	28	15	NNE

ID = BPHOR

	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 19:35 PDT	21	26.1	13	NNE
10-28-2013 19:40 PDT	22.4	28.5	14	NNE
10-28-2013 19:45 PDT	22.8	28.9	13	NNE
10-28-2013 19:50 PDT	23	30.5	16	NNE
10-28-2013 19:55 PDT	21.7	29.3	19	NNE
10-28-2013 20:00 PDT	21.2	28.9	18	NNE
10-28-2013 20:05 PDT	21	32.9	19	NNE
10-28-2013 20:10 PDT	22.9	29.1	22	NNE
10-28-2013 20:15 PDT	22.1	30.5	21	NNE
10-28-2013 20:20 PDT	20.9	27.4	20	NNE
10-28-2013 20:25 PDT	21.4	28.9	21	NNE
10-28-2013 20:30 PDT	20.9	27.4	17	NNE
10-28-2013 20:35 PDT	21.2	26.3	15	NNE
10-28-2013 20:40 PDT	21.7	27.2	13	NNE
10-28-2013 20:45 PDT	21.6	27.8	10	N
10-28-2013 20:50 PDT	22	28	9	N
10-28-2013 20:55 PDT	22.2	27.8	8	N
10-28-2013 21:00 PDT	21.7	25.9	8	N
10-28-2013 21:05 PDT	22.4	27.2	8	N
10-28-2013 21:10 PDT	21.5	25.4	10	N
10-28-2013 21:15 PDT	20.2	24.5	12	NNE
10-28-2013 21:20 PDT	19.3	23	12	NNE
10-28-2013 21:25 PDT	19.8	24.3	14	NNE
10-28-2013 21:30 PDT	20.1	25.6	15	NNE
10-28-2013 21:35 PDT	18.8	23.7	12	NNE
10-28-2013 21:40 PDT	17.9	23.2	14	NNE
10-28-2013 21:45 PDT	17.7	21.7	13	NNE
10-28-2013 21:50 PDT	18.1	23	8	N
10-28-2013 21:55 PDT	17.5	21.9	9	N
10-28-2013 22:00 PDT	17	20.8	7	N
10-28-2013 22:05 PDT	17.3	20.4	4	N
10-28-2013 22:10 PDT	16	19.5	8	N
10-28-2013 22:15 PDT	16.4	20.6	11	N
10-28-2013 22:20 PDT	17.3	23.4	15	NNE
10-28-2013 22:25 PDT	17	21.3	16	NNE
10-28-2013 22:30 PDT	17.4	21	15	NNE
10-28-2013 22:35 PDT	17.1	21.5	13	NNE
10-28-2013 22:40 PDT	17.5	21.3	11	N
10-28-2013 22:45 PDT	16.5	21.3	10	N
10-28-2013 22:50 PDT	16.7	19.9	8	N
10-28-2013 22:55 PDT	16.5	20.2	9	N
10-28-2013 23:00 PDT	16.5	21.9	8	N
10-28-2013 23:05 PDT	16.8	19.9	4	N
10-28-2013 23:10 PDT	18.3	21.5	6	N
10-28-2013 23:15 PDT	18.6	20.8	5	N
10-28-2013 23:20 PDT	19.4	22.6	5	N

ID = BPHOR

	Wind Speed, mph	GUST mph	Wind Direction, °	5 minute data
10-28-2013 23:25 PDT	19.6	22.8	5	N
10-28-2013 23:30 PDT	19.6	22.6	3	N
10-28-2013 23:35 PDT	18.3	22.8	3	N
10-28-2013 23:40 PDT	18	20.8	6	N
10-28-2013 23:45 PDT	17.9	21	5	N
10-28-2013 23:50 PDT	16.6	20.4	8	N
10-28-2013 23:55 PDT	16	20.6	7	N
10-29-2013 0:00 PDT	15.7	21	8	N

MesoWest Disclaimer

LIDW, ESCURE, Spokane Airport (KGEG), hourly wind speeds, 10/27-10/28

hour	lidw_speed	escure_speed	KGEG_speed
10/27/2013 0:00	1.9	2	6.9
10/27/2013 1:00	7.6	10	4.6
10/27/2013 2:00	7.0	4	0
10/27/2013 3:00	8.7	8	5.8
10/27/2013 4:00	6.9	6	3.5
10/27/2013 5:00	3.9	9	3.5
10/27/2013 6:00	7.5	8	5.8
10/27/2013 7:00	8.3	8	3.5
10/27/2013 8:00	9.5	6	4.6
10/27/2013 9:00	3.5	1	4.6
10/27/2013 10:00	5.9	4	5.8
10/27/2013 11:00	6.8	7	9.2
10/27/2013 12:00	7.6	7	9.2
10/27/2013 13:00	10.5	7	9.2
10/27/2013 14:00	13.0	10	13.8
10/27/2013 15:00	13.4	12	16.1
10/27/2013 16:00	14.1	16	18.4
10/27/2013 17:00	16.1	16	23
10/27/2013 18:00	18.3	23	21.9
10/27/2013 19:00	24.5	27	23
10/27/2013 20:00	28.3	32	24.2
10/27/2013 21:00	31.9	30	24.2
10/27/2013 22:00	34.5	29	18.4
10/27/2013 23:00	29.8	30	29.9
10/28/2013 0:00	32.9	29	19.6
10/28/2013 1:00	31.5	28	19.6
10/28/2013 2:00	30.6	28	18.4
10/28/2013 3:00	31.5	26	15
10/28/2013 4:00	31.4	26	24.2
10/28/2013 5:00	30.8	18	17.3
10/28/2013 6:00	32.0	18	18.4
10/28/2013 7:00	31.3	18	20.7
10/28/2013 8:00	29.9	24	20.7
10/28/2013 9:00	30.2	25	20.7
10/28/2013 10:00	30.6	29	28.8
10/28/2013 11:00	28.4	25	20.7
10/28/2013 12:00	26.5	27	23
10/28/2013 13:00	25.4	24	21.9
10/28/2013 14:00	24.3	23	20.7
10/28/2013 15:00	24.8	21	20.7

10/28/2013 16:00	21.8	16	15
10/28/2013 17:00	21.6	15	20.7
10/28/2013 18:00	21.9	14	16.1
10/28/2013 19:00	21.1	13	12.7
10/28/2013 20:00	21.2	15	11.5
10/28/2013 21:00	20.0	11	10.4
10/28/2013 22:00	17.4	11	12.7
10/28/2013 23:00	17.3	13	8.1
# hours > 25	18	12	2

Hanford Meteorological Data for October 2013

Narrative Summary – October 2013

October 2013 was slightly cooler than normal, averaging 52.5°F, 0.6° below normal (53.1°F). The warmest October (1988) averaged 59.6°F, while the coolest (1984) averaged 47.9°F. No temperature records were observed during the month of October 2013:

Precipitation for October 2013 totaled 0.38 inch, 78% of normal (0.49 inch). The wettest October (1957) received 2.72 inches, while the driest (1987 and earlier years) received only a trace. Total precipitation for 2013 (through October) is 4.95 inches, 99% of normal (4.99 inches).

The average wind speed for October 2013 was 6.1 miles per hour (mph), which was 0.6 mph below normal (6.7 mph). The windiest October (1946) averaged 9.1 mph, while the October with the lightest winds (1952) averaged 4.4 mph. The peak gust for October 2013 was 49 mph on October 28. The record wind gust for October was 72 mph in 1997.

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

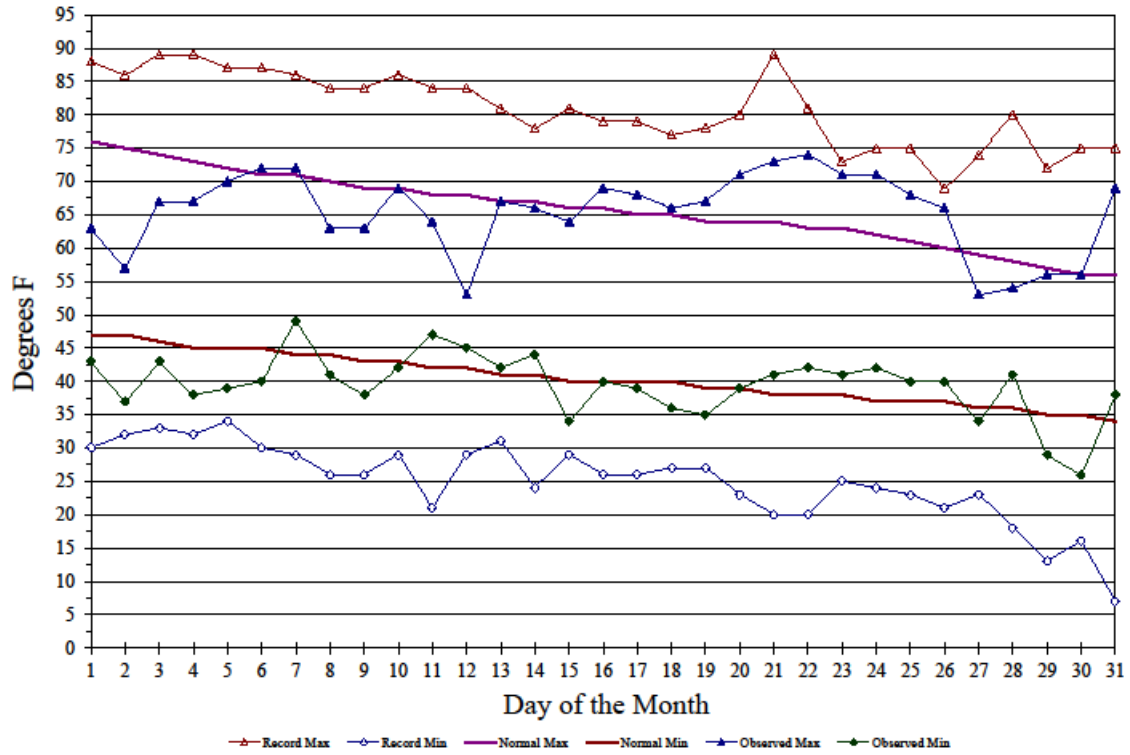
HMS Staff 373-2716

Note: The data in this summary pertain 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 25 MILES N.W. OF RICHLAND, WASHINGTON LATITUDE 46° 34' N., LONGITUDE 119° 36' W., ELEVATION (GROUND) 733 FEET														MONTH October 2013	
DATE	TEMPERATURE (°F) (3-FT LEVEL)						PRECIPITATION			WIND (50-FT LEVEL)				AVERAGE REL. HUM. %	SOUND (LANGLEY'S)	SKY COVER (TENTHS FROM SUNRISE TO SUNSET)	FRONTS AND MISC. PHENOMENA NOTE: TIMES OF FRONTAL PASSAGES ARE GIVEN AFTER THE NOTATIONS "KFR" (COLD FRONT) AND "WFR" (WARM FRONT)
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HEATING DEGREE DAYS (BASE 65°F)	COOLING DEGREE DAYS (BASE 65°F)	TOTAL (WATER EQUIVALENT) IN (IN.)	SNOW/ICE PELLETS (SLEET) (IN.)	SNOW/ICE PELLETS (SLEET) OR ICE ON GROUND AT 0600 (IN.)	PREVAILING DIRECTION	AVERAGE SPEED (MPH)	PEAK GUST SPEED (MPH)	PEAK GUST DIRECTION				
1	63	43	53	-8	12	0			W	8.4	25	WSW	53.8	255.0	7	KFR 1500	
2	57	37	47	-14	18	0	0.21		NW	6.1	14	WNW	69.9	220.2	10		
3	67	43	55	-5	10	0			NW	8.1	19	WNW	54.4	373.8	0		
4	67	38	52	-7	13	0			SE	5.1	16	SSE	55.2	363.6	3		
5	70	39	54	-4	11	0			SE	4.4	12	ESE	56.5	355.8	7		
6	72	40	56	-2	9	0			S	5.4	23	SSW	51.1	350.4	7		
7	72	49	60	+3	5	0			W	11.3	37	WSW	43.3	353.4	1	KFR 0600	
8	63	41	52	-8	13	0	0.10		SW	7.5	25	NNW	62.3	189.6	7	T	
9	63	38	50	-6	15	0			NW	5.4	14	W	66.4	328.2	7		
10	69	42	56	0	9	0			NW	6.5	23	NW	53.8	322.2	2		
11	64	47	56	+1	9	0			NW	5.2	15	NW	53.2	244.8	10		
12	53	45	49	-6	16	0	0.04		NW	4.9	11	NW	78.7	99.0	10		
13	67	42	54	0	11	0			NW	6.3	13	WNW	53.2	316.8	1		
14	66	44	55	+1	10	0			N	6.6	17	N	44.7	318.6	0		
15	64	34	49	-4	16	0			SE	4.3	14	SSE	54.7	304.2	4		
16	69	40	54	+1	11	0			NW	4.3	11	N	52.6	297.6	5		
17	68	39	54	+1	11	0			NW	4.7	12	NNW	55.3	300.6	0		
18	66	36	51	-1	14	0			SE	4.0	13	SSE	60.8	297.0	1		
19	67	35	51	-1	14	0			N	3.4	9	ENE	63.8	279.6	6	F	
20	71	39	55	+4	10	0			SE	3.5	10	SSE	60.0	279.6	1	F	
21	73	41	57	+6	8	0			NW	4.0	10	SSE	58.9	279.6	0		
22	74	42	58	+7	7	0			NW	4.1	11	W	61.2	277.2	0		
23	71	41	56	+6	9	0			W	5.9	15	W	64.6	271.8	0		
24	71	42	56	+6	9	0			NW	4.2	12	SSE	67.0	260.4	0		
25	68	40	54	+5	11	0			NE	3.8	11	W	73.5	247.2	1	F	
26	66	40	53	+5	12	0			SW	4.8	10	NNW	73.2	253.8	0	F	
27	53	34	44	-4	21	0	0.03		N	10.6	47	NE	80.8	36.0	10	F, BD, KFR 1000	
28	54	41	48	+1	17	0			NE	20.8	49	NE	34.8	121.2	5	BD	
29	56	29	42	-4	23	0			NW	4.6	14	N	42.5	253.8	0		
30	56	26	41	-5	24	0			NW	3.8	10	NW	57.7	219.6	5		
31	69	38	54	+9	11	0	T		W	8.0	25	NNW	54.7	232.8	1		
SUM					365	0	0.38										
AVG	65.5	39.5								6.1						3.6	

NOTES:		PRECIPITATION (IN.)			MISC. PHENOMENA NOTATIONS USED IN COL. 17		
(1) Unless otherwise specified, the daily summary period is from midnight to midnight Pacific Standard Time.		TOTAL FOR THE MONTH			A - Hail AU - Aurora BD - Blowing Dust		
(2) "T" in Columns 7-9 denotes a trace.		DEPARTURE FROM NORMAL			BS - Blowing Snow D - Dust DL - Distant Lightning		
(3) The Langley (Col. 15) is the unit used to denote one gram calorific.		GREATEST IN 24 HR			DS - Drifting Snow F - Fog GL - Glaze		
		NUMBER OF DAYS WITH:			IC - Ice Crystals K - Smoke T - Thunderstorm		
TEMPERATURE (°F) (3-FT LEVEL)		TRACE OR MORE			BAROMETRIC PRESSURE (IN.)		
AVERAGE FOR THE MONTH		0.01 OR MORE			AVERAGE STATION		
DEPARTURE FROM NORMAL		0.10 OR MORE			HIGHEST SEA LEVEL		
HIGHEST		TOTAL FOR THE MONTH			LOWEST SEA LEVEL		
LOWEST		GREATEST IN 24 HOURS			SOLAR RADIATION (LANGLEYS)		
NUMBER OF DAYS WITH:		GREATEST ON GROUND			AVERAGE DAILY TOTAL		
MAXIMUM 32 OR BELOW		WIND (50-FT LEVEL)			GREATEST DAILY		
MAXIMUM 90 OR ABOVE		AVERAGE SPEED (MPH)			LEAST DAILY		
MINIMUM 32 OR BELOW		DEPARTURE FROM NORMAL			MISCELLANEOUS NUMBER OF DAYS		
MINIMUM 0 OR BELOW		PEAK GUST			CLEAR		
HEATING DEGREE DAYS (BASE 65°F)		NE @ 49 ON 28			PARTLY CLOUDY		
TOTAL FOR THE MONTH		AVERAGE PSYCHROMETRIC DATA			CLOUDY		
DEPARTURE FROM NORMAL		DRY BULB (°F)			DUST		
SEASONAL TOTAL (SINCE JULY 1)		WET BULB (°F)			RELATIVE HUMIDITY EXTREMES (%)		
SEASONAL DEPARTURE FROM NORMAL		REL. HUM. (%)			HIGHEST		
		DEW PT. (°F)			LOWEST		
		+DENOTES LATEST OF SEVERAL DATES			ON		

Daily Temperatures - October 2013 Hanford Meteorological Station



Pasco-Tricities Airport Data (KPSC), GMT/UTC

Past Weather Conditions for KPSC

Observations prior to selected time: October 28, 2013 - 13:00 GMT

Weather Conditions at October 28, 2013 - 12:53 GMT

Graphical Links	With Prior Obs	12:53	24 Hour Max	24 Hour Min
Temperature	Temperature	44.1° F	51.1 at 22:53	44.1 at 12:53
Dew Point	Dew Point	28.9° F	48.0 at 0:53	28.9 at 12:53
Wet Bulb Temperature	Wet Bulb Temperature	37.7° F	49.0 at 0:53	37.7 at 12:53
Relative Humidity	Relative Humidity	55%	97 at 2:53	55 at 12:53
Wind Speed	Wind Speed	31 mph from N	31 at 12:53	0 at 14:53
Wind Gust	Wind Gust	43 mph	43 at 9:53	25 at 5:53
Pressure	Pressure	29.42 in	29.42 at 12:53	29.33 at 20:15
Sea level pressure	Sea level pressure	29.86 in	29.86 at 12:53	29.78 at 21:53
Altimeter	Altimeter	29.86 in	29.86 at 12:53	29.77 at 20:15
1500 m Pressure	1500 m Pressure	24.92 in	24.92 at 12:53	24.84 at 20:15
Weather conditions	Weather conditions	mostly cloudy	-	-
Visibility	Visibility	9.00 miles	10.00 at 3:53	2.00 at 0:53
Ceiling	Ceiling	8500 feet	11000 at 4:53	1200 at 9:53

Precipitation variable accumulated	Since Midnight	In 24 Hours
Precipitation 1hr	0.001"	0.019"
Precipitation 6hr	0.001"	0.013"

Tabular Listing: October 27, 2013 - 13:00 through October 28, 2013 - 13:00 GMT

Time(GMT)	Temperature °F	Dew Point °F	Wet Bulb °F	Relative Humidity %	Wind Speed mph	Wind Gust mph	Wind Direction	Peak Wind Speed mph	Wind Quality check	Pressure in	Sea level pressure in	Altimeter in	1500 m Pressure in	Weather conditions	Visibility miles	Precipitation 1hr in	Precipitation 3hr in	Precipitation 6hr in	Precipitation 24hr in	Ceiling feet
12:53	44.1	28.9	37.7	55	31	43	N	43	OK	29.42	29.86	29.86	24.92	mostly cloudy	9.00					8500
11:53	45.0	30.9	38.9	58	30	40	N		OK	29.41	29.85	29.85	24.91	overcast	10.00			0.001	0.01	9000
10:53	46.0	30.9	39.5	55	29	40	NNE	46	OK	29.40	29.84	29.84	24.90	overcast	7.00					7500
10:07	46.4	32.0	40.0	57	30	41	NNE	41	OK	29.40		29.84	24.90	haze	6.00					7500
9:53	46.9	32.0	40.3	56	30	43	NNE	43	OK	29.40	29.84	29.84	24.90	haze	5.00					1200
8:53	46.9	34.0	41.1	60	26	40	NNE		OK	29.40	29.84	29.84	24.90	haze	6.00		0.00			7000
7:53	46.9	35.1	41.5	63	28	36	NNE	36	OK	29.39	29.84	29.83	24.89	overcast	10.00	0.001				11000
6:53	48.9	35.1	42.5	59	26	35	NNE		OK	29.40	29.85	29.84	24.90	overcast	9.00	0.001				8500
5:53	50.0	37.0	43.8	61	20	25	N		OK	29.39	29.83	29.83	24.89	overcast	10.00			0.010		10000
4:53	50.0	42.1	46.0	74	13		N		OK	29.38	29.83	29.82	24.88	overcast	10.00					11000
3:53	48.0	46.0	47.0	93	8		NNW		OK	29.38	29.82	29.82	24.88	mostly cloudy	10.00					8000
2:53	46.9	46.0	46.5	97	6		WNW		OK	29.38	29.82	29.82	24.88	fog	3.00			0.01		4000
1:53	48.0	46.0	47.0	93	5		N		OK	29.39	29.83	29.83	24.89	fog	3.00	0.001				4000
1:23	50.0	46.4	48.1	87	5		NE		OK	29.38		29.82	24.88	fog	3.00	0.001				2800
0:53	50.0	48.0	49.0	93	6		ENE		OK	29.37	29.81	29.81	24.88	lt rain, fog	2.00	0.010				2600
23:53	51.1	46.9	48.9	86	0				OK	29.35	29.79	29.79	24.86	fog	3.00	0.001		0.001		2600
22:53	51.1	46.0	48.4	83	9		NW		OK	29.34	29.78	29.78	24.85	haze	3.00	0.001				2100
21:53	50.0	45.0	47.4	83	10		NNW		OK	29.33	29.78	29.77	24.84	haze	3.00	0.001				1700
20:53	50.0	44.1	46.9	80	7		NW		OK	29.34	29.78	29.78	24.85	haze	3.00	0.001		0.00		1500
20:15	48.2	44.6	46.4	87	9		NNW		OK	29.33		29.77	24.84	fog	4.00	0.001				1300
19:53	48.9	44.1	46.4	83	9		NNW		OK	29.34	29.78	29.78	24.85	haze	3.00					1500
19:09	48.2	44.6	46.4	87	5		NNW		OK	29.34		29.78	24.85	fog	3.00					2300
18:53	48.0	45.0	46.5	89	5		W		OK	29.35	29.80	29.79	24.86	fog	3.00					8500
17:53	46.9	44.1	45.5	90	6		W		OK	29.34	29.79	29.78	24.85	fog	4.00	0.001		0.001		9500
17:02	46.4	44.6	45.5	93	6		NNW		OK	29.35		29.79	24.86	lt rain, fog	3.00	0.001				8000
16:53	46.9	45.0	46.0	93	8		NNW		OK	29.34	29.78	29.78	24.85	lt rain, fog	3.00	0.001				8500
15:53	50.0	45.0	47.4	83	0				OK	29.36	29.80	29.80	24.87	clear	7.00					
14:53	46.0	43.0	44.5	89	0				OK	29.39	29.83	29.83	24.89	fog	4.00					
13:53	46.9	43.0	45.0	86	6		SSW		OK	29.38	29.82	29.82	24.88	fog	6.00					
12:53	48.0	44.1	46.0	86	7		SSW		OK	29.41	29.85	29.85	24.91	clear	7.00					

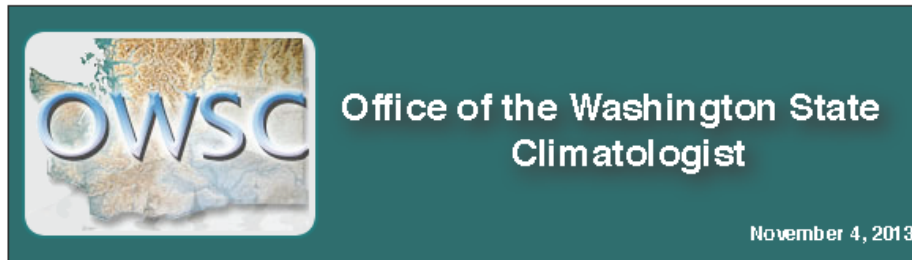
University of Utah MesoWest

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http://mesowest.utah.edu/cgi-bin/droman/meso_base.cgi?stn=KPSC&year1=2013&month1=10&day1=28&hour1=13&past=1&time=GMT

Office of the Washington State Climatologist Report – October Event Summary

<http://www.climate.washington.edu/newsletter/2013Nov.pdf>



October Event Summary

The average October conditions in WA State were the opposite of those experienced in September. Records were set for the wettest September last month in some locations; in contrast, October was very dry statewide. In addition, September was warm across the state on average, while October was colder than normal. Table 1 shows some examples of stations around the state that ranked in at least the top twelve driest Octobers. The lack of October precipitation at Pasco (0.04") ranked as the driest October on record there since records began in 1946. Also note that October 1987

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was the record driest for many of the stations listed in Table 1. That year featured a particularly long summer that stretched into October for many locations.

This year, an extensive period with high pressure at upper levels over us resulted in a dry spell for much of the month. Rather than summer-like conditions, this pattern brought colder than normal temperatures at the surface along with persistent fog. The strong temperature inversion at the surface (where temperatures

Station	Oct 2013 Precipitation	Rank	Record Low Precip/Year	Records Began
Pasco	0.04"	1	-	1946
Spokane AP	0.09"	5	T; 1895	1881
Hoquiam	2.26"	5	0.06"; 1987	1953
Mazama	0.19"	5	0.01"; 1987	1950
Quillayute	3.15"	8	1.37"; 1987	1966
Pullman 2 NW	0.46"	9	0"; 1987	1940
Omak	0.07"	9	0.01"; 1978	1909
SeaTac	1.54"	11 (tie)	0.31"; 1987	1948
Yakima	0.13"	11	0"; 1978	1946
Everett	1.43"	12	0.08"; 1987	1894
Olympia	2.13"	12	0.39"; 1987	1948

Table 1: October 2013 precipitation, the ranking (driest to wettest), the record driest and year of occurrence, and the year that records began at each station.

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<http://www.climate.washington.edu>

increase with height) resulted in warm and sunny days in the mountains at locations above the fog and low clouds. This pattern persisted for two weeks; for example SeaTac had 14 consecutive days without even a trace of precipitation. According to the National Weather Service Seattle Office, that ranked as the 3rd longest streak of completely dry days in October. The longest was 21 days in October 1986.

As noted in the last edition of the OWSC newsletter, October tends to be the foggiest month of the year in WA. This was certainly the case this year. Spokane Airport reported 9 days of heavy fog (visibilities less than a quarter mile) - typically, that station averages about 3 days of dense fog during October. The SeaTac Airport observations are even more impressive. There were 12 days in October that included a period of heavy fog, which is a much higher total than the typical 4 days. But finally, Olympia wins the dubious honor of foggiest location: 24 days of heavy fog were recorded there in October, well above the typical 11 days.

The Fifth Assessment Report (AR5) from the Intergovernmental Panel on Climate Change

A message from the State Climatologist

The Intergovernmental Panel on Climate Change (IPCC) has produced a series of reviews of the state of the global climate and its expected changes. Portions of the Fifth Assessment Report (AR5) from the IPCC have been made available recently. In particular, a summary for policy makers and a draft report from Working Group 1 entitled "Climate Change 2013: The Physical Science Basis" were released on 27 September 2013. These publications represent the tremendous effort of hundreds of international scientists with a wide range of expertise, and involve an elaborate process of review and revision. The draft report from Working Group 1 runs more than 2000 pages; the technical summary alone exceeds 100 pages (available here: <http://www.ipcc.ch/>). We expect that most of the readers of this newsletter will not be plowing through the entire report and while any sort of summary we can include here could not possibly do it justice, we hope that providing a few tidbits might be appreciated. These excerpts pertain to both the global climate system as a whole, and the Pacific Northwest from a regional perspective.

In terms of the big picture, AR5 features the strong statement that warming of the climate system since the late 19th century is "unequivocal". An interesting wrinkle here is that the warming of the ocean accounts for more than 90% of the increase in energy stored in the atmosphere-ocean climate system since 1970. The state of the cryosphere (i.e., snow, ice sheets, glaciers, etc.) has received considerable recent attention, and there is high confidence that over the last two decades there have been declines in the mass of the Greenland and Antarctic ice sheets, shrinkage in glaciers in a global sense, a decrease in Arctic sea ice during summer, and less snow cover in the Northern Hemisphere in spring. Projections of the future climate rely primarily on the output from global climate models. It is asserted that these models have been improved since the last report (AR4) in 2007. That being said, while they are able to reproduce observed temperature patterns on continental scale they are not as ca-

pable with respect to precipitation. On the topic of precipitation, projected changes in the water cycle will be far from uniform, with a consensus of the models suggesting increases in general at higher latitudes and mostly decreases in already dry regions in the sub-tropics. The expected rises in sea level will occur at a greater rate than indicated in AR4 due to better account of contributions from glaciers and ice sheets. While there is substantial uncertainty in the rate of warming over the next century, the eventual total response with respect to global mean temperatures will be determined by the cumulative emissions of greenhouse gases.

The hiatus in global warming over the last 15 years is a hot topic (pun intended). In more concrete terms, the linear trend in global mean surface temperatures over that period was only about 1/3 to 1/2 of the trend for 1951-2012 as a whole. The recent weakening in the warming of the global climate (which was also manifested in the Pacific Northwest) was poorly simulated by the present generation of global climate models. AR5 attributes this discrepancy to a combination of internal climate variability, improper handling of the radiative forcing and other errors due to the models being too sensitive (by about 10%) to greenhouse gases, and other anthropogenic effects. It will be interesting, of course, to see how long this hiatus continues.

The model projections for the PNW indicate the likelihood of an increase in winter precipitation, and a decrease in summer precipitation, with a weaker consensus for the latter (Figure 1). The model results may be resolution-dependent, as illustrated by the differences found in an ensemble of runs from a single higher resolution model (right panels of Fig. 1). There is very little to go on with regards to any systematic changes in regional storm tracks (i.e., wind storms) in next few decades. A poleward shift in the storm track is more likely than not over the North Pacific by the latter half of the century. It is a good bet that there will be increases in the temperatures accompanying both heat waves and cold snaps. But our ability to project changes in frequency and magnitude of extreme events is limited because of shortcomings in the models' ability to simulate changes in key features of the circulation such as blocking. The various climate models used by IPCC have different historical climatologies in terms of blocking frequency vs. longitude (Figure 2). This matters to WA State because during winter for example, blocking at 130 W (230 E) usually means dry, stagnant conditions while blocking at 160 to 150 W (200 to 210 E) is often accompanied by the delivery of cold air out of Canada. Many of the models do not replicate the observed climatology of blocking particularly well, which may compromise the reliability of their projections of changes in blocking and other sorts of high-amplitude circulation features associated with extreme events in all seasons.

In closing, we would like to make a point we have made before, and that we feel is worth making again. It relates to the issue of the recent hiatus in warming brought up above. The intrinsic variability of the climate is substantial, especially for any particular region. This source of variability is liable to dominate the climate signal in the Pacific Northwest over the next couple of decades.

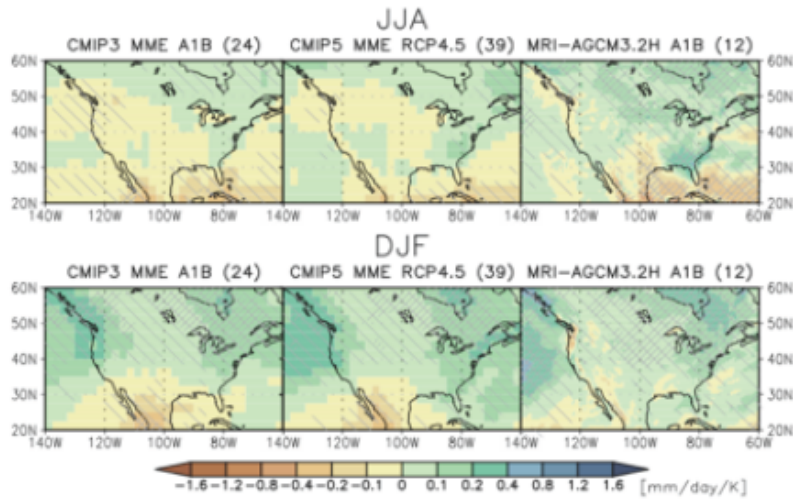


Figure 1: Changes in precipitation from the period of 1986-2005 to the period of 2080-2099 from ensembles of 24 CMIP3 models (left), 39 CMIP5 models (middle), and 12 members of the 60 km mech MRI-AGCM3.2 model (right). All changes are normalized by the global mean temperature change in each scenario. The hatched lines show statistical significance. Adapted from Figure 14.8 from Chapter 14 of Working Group 1 (AR5).

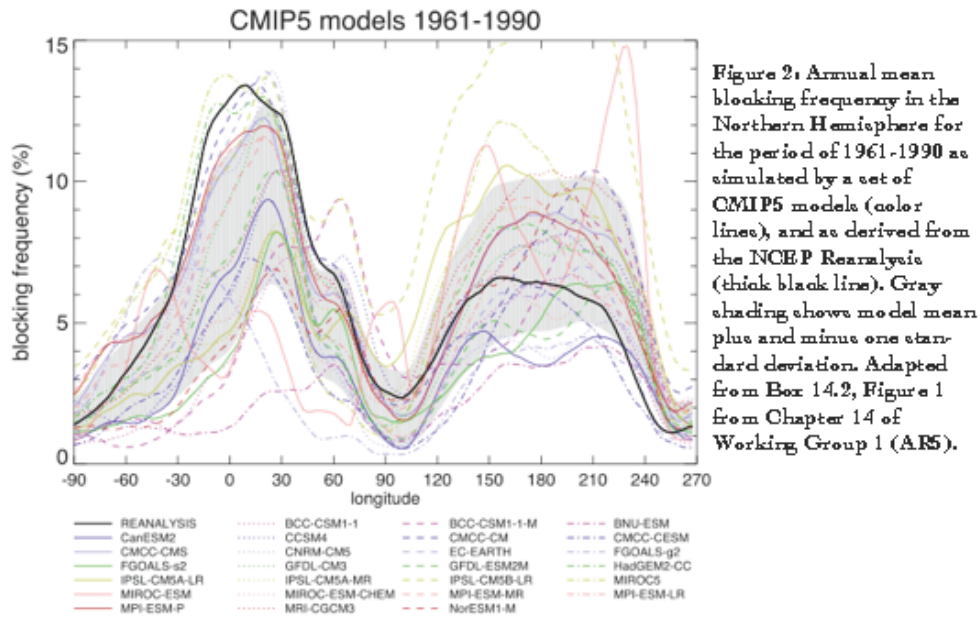
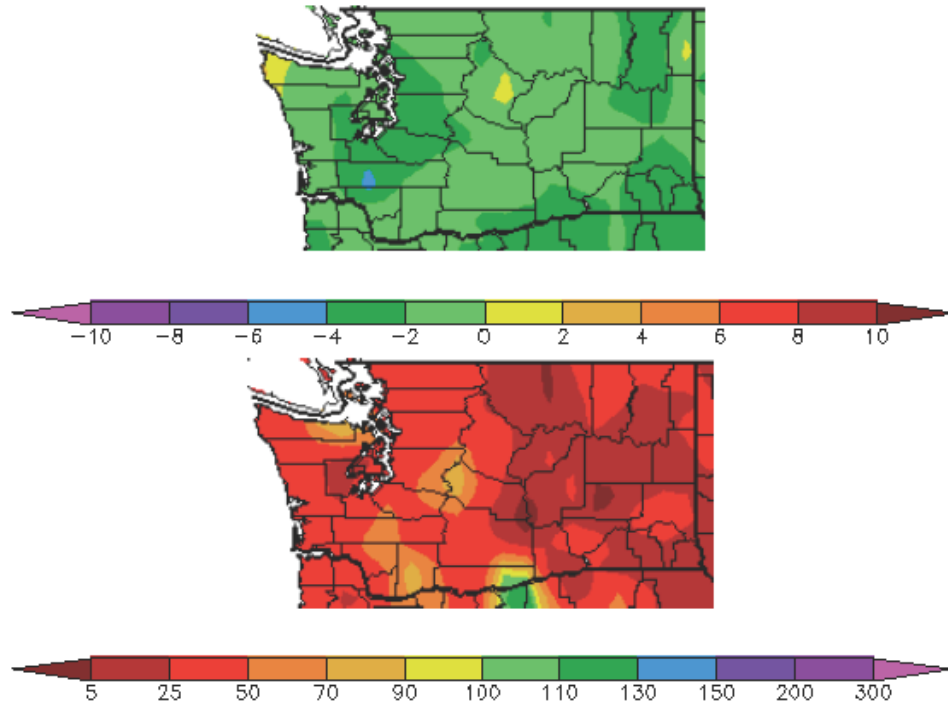


Figure 2: Annual mean blocking frequency in the Northern Hemisphere for the period of 1961-1990 as simulated by a set of CMIP5 models (color lines), and as derived from the NCEP Reanalysis (thick black line). Gray shading shows model mean plus and minus one standard deviation. Adapted from Box 14.2, Figure 1 from Chapter 14 of Working Group 1 (AR5).

Climate Summary

Mean October temperatures were generally below normal across WA State, according to the High Plains Regional Climate Center map below. Temperatures were particularly cool (between 2 and 4°F below normal) in the Puget Sound region where the fog and temperature inversion persisted for about two weeks. The Cascade Mountains and coast were closer to normal with a few spots even above normal for the month; the mountains were generally above the temperature inversion and fog, and the coast often experienced clearing of the low clouds. Quillayute, for example, had an average temperature that was 2.2°F above normal for the month (Table 2).

Total October precipitation was much lower than normal statewide, which is a stark contrast to the wetter than normal conditions experienced in September. The precipitation percent of normal ranged between 5 and 50% of normal for nearly the entire state. Pasco and Omak received a mere 6% of their normal October precipitation while areas west of the Cascades that typically receive much more October precipitation ranged between 30 and 50% of normal precipitation (Table 2).



October temperature (°F) departure from normal (top) and October precipitation % of normal (bottom). (High Plains Regional Climate Center (<http://www.hprcc.unl.edu>); relative to the 1981-2010 normal).

	Mean Temperature (°F)			Precipitation (inches)		
	Average	Normal	Departure from Normal	Total	Normal	Percent of Normal
Western Washington						
Olympia	48.4	50.3	-1.9	2.13	4.60	46
Seattle WFO	51.2	53.3	-2.1	1.11	3.41	33
Sea-Tac	51.7	52.8	-1.1	1.54	3.48	44
Quillayute	52.2	50.0	2.2	3.15	10.49	30
Hoquiam	51.3	52.2	-0.9	2.27	6.53	35
Bellingham AP	49.1	49.8	-0.7	2.17	3.68	59
Vancouver AP	52.1	53.8	-1.7	1.12	3.07	36
Eastern Washington						
Spokane AP	45.7	47.6	-1.9	0.09	1.18	8
Wenatchee	50.2	50.9	-0.7	0.15	0.44	34
Omak	47.8	48.9	-1.1	0.07	1.10	6
Pullman AP	44.8	47.5	-2.7	0.15	1.34	11
Ephrata	50.0	50.5	-0.5	0.14	0.53	26
Pasco AP	49.1	51.9	-2.8	0.04	0.65	6
Hanford	52.5	53.1	-0.6	0.38	0.49	77

Table 2: October 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 station began in 1998 and 1986, respectively.

CoCoRaHS

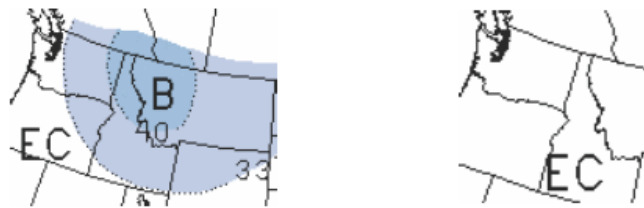
Thank you, Community, Collaborative, Rain, Hail, and Snow (CoCoRaHS) observers, for continuing to measure precipitation. The eastern WA Regional CoCoRaHS Coordinators are hosting a web-meeting on Tuesday, November 12 at 6 pm. The webinar will review winter precipitation measurement techniques and include a question-and-answer period. Registration is free, but required: <https://www1.gotomeeting.com/register/186469761>.

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/>. Averaged over the last 4 weeks, sea-surface temperatures (SSTs) have been above normal in the western equatorial Pacific Ocean, and near-normal to below normal from the central to eastern equatorial Pacific. There is a consensus among the model predictions that near-neutral ENSO conditions will persist through the upcoming winter and into spring 2014.

The CPC three-class outlook for November has increased chances of below normal ("B" on the plot) temperatures for central and eastern WA. On the other hand, western WA has equal chances ("EC") of below, equal to, or above normal temperatures for November. The outlook for November precipitation is a toss up: there are equal chances of above, equal to, or below normal precipitation statewide. We would like to recognize that the CPC outlook got one wrong for the last edition of the OWSC newsletter. The precipitation outlook had high chances of above normal conditions for October, perhaps in the expectation that the extremely wet September conditions would persist, but it did not play out that way, to say the least.

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



November outlook for temperature (left) and precipitation (right) from the CPC.



November-December-January outlook for temperature (left) and precipitation (right) from the CPC.

Monitoring Data

KENMETA, 1-hour PM₁₀ & wind data, 10/27/2013-10/28/2013

Station: Kennewick-Metaline Periodically: 10/27/2013 12:00 AM-10/28/2013 11:59 PM
 Type: AVG 1 Hr. [1 Hr.] PST

Date & Time	NPM25	Visibility	TPM10	Wind Spd S	Wind Dir S
	ug/m ³	Miles	ug/m ³ (s)	MPH	Deg
10/27/2013 12:00 AM	23.5	20	39	9.3	236
10/27/2013 1:00 AM	23.6	20	37	3.4	294
10/27/2013 2:00 AM	23.9	20	25	5.2	186
10/27/2013 3:00 AM	21.9	22	26	10.4	191
10/27/2013 4:00 AM	24.2	19	26	13.1	218
10/27/2013 5:00 AM	24.6	19	26	15.3	222
10/27/2013 6:00 AM	22.7	21	30	8.3	239
10/27/2013 7:00 AM	19.5	26	19	5.4	228
10/27/2013 8:00 AM	20.8	24	21	6.6	309
10/27/2013 9:00 AM	21.4	23	20	2.5	324
10/27/2013 10:00 AM	21.1	23	21	5.4	342
10/27/2013 11:00 AM	22.7	21	18	10.2	324
10/27/2013 12:00 PM	22.2	22	27	7.8	351
10/27/2013 1:00 PM	24.4	19	33	7.4	335
10/27/2013 2:00 PM	28.2	16	46	7	333
10/27/2013 3:00 PM	26.8	17	45	3.3	296
10/27/2013 4:00 PM	27	17	46	3.3	262
10/27/2013 5:00 PM	28.7	16	47	4.4	25
10/27/2013 6:00 PM	28.5	16	37	3.5	343
10/27/2013 7:00 PM	20.8	30	20	5.5	321
10/27/2013 8:00 PM	5.4	91	InVld	8.4	345
10/27/2013 9:00 PM	5.2	93	47	7.9	352
10/27/2013 10:00 PM	5.5	91	119	12.1	22
10/27/2013 11:00 PM	7.2	73	238	11	5
10/28/2013 12:00 AM	7.3	72	239	10.7	12
10/28/2013 1:00 AM	9.6	59	408	14.7	30
10/28/2013 2:00 AM	7.3	72	326	14.6	22
10/28/2013 3:00 AM	6.3	81	242	16.4	23
10/28/2013 4:00 AM	8.9	62	338	18.1	21
10/28/2013 5:00 AM	11.8	45	601	19.9	29
10/28/2013 6:00 AM	10.6	51	470	19.8	31
10/28/2013 7:00 AM	8.8	62	330	20.5	34
10/28/2013 8:00 AM	9.9	54	345	18.7	33
10/28/2013 9:00 AM	7.8	68	230	16.6	31
10/28/2013 10:00 AM	9.2	63	246	14.3	27
10/28/2013 11:00 AM	10.4	54	390	16.5	26
10/28/2013 12:00 PM	10.4	52	350	15.3	23
10/28/2013 1:00 PM	8.3	64	299	15.6	14
10/28/2013 2:00 PM	7.2	74	147	14.8	13
10/28/2013 3:00 PM	6.4	80	98	12.5	14

10/28/2013 4:00 PM	6.3	81	93	12.6	9
10/28/2013 5:00 PM	6.3	81	86	11.7	18
10/28/2013 6:00 PM	4.9	97	45	11.5	27
10/28/2013 7:00 PM	5	95	23	11.6	22
10/28/2013 8:00 PM	5	96	24	10.3	23
10/28/2013 9:00 PM	5.1	94	12	9.5	25
10/28/2013 10:00 PM	5.1	95	13	5.7	43
10/28/2013 11:00 PM	4.9	97	9	5.3	44

Minimum	4.9	16	9	2.5	5
MinDate	10/28/2013 6:00 PM	10/27/2013 2:00 PM	10/28/2013 11:00 PM	10/27/2013 9:00 AM	10/27/2013 1:00 AM
Maximum	28.7	97	601	20.5	352
MaxDate	10/27/2013 5:00 PM	10/28/2013 6:00 PM	10/28/2013 5:00 AM	10/28/2013 7:00 AM	10/27/2013 1:00 AM
Avg	14.2	52	136	10.7	359
Num	48	48	47	48	48
Data[%]	100	100	98	100	100
STD	8.4	29.6	150.8	5	No Data

KENMETA, 1-minute PM₁₀ and wind data, 10/27/2013-10/28/2013

Station:1-minute wind speeds. Kennewick-Metaline, Periodically: 10/27/2013 22:01-10/28/2013 14:59

Type: AVG 1 Min. [1 Min.] *PST*

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/27/2013 22:01	4.9	97	66	6.9	11
10/27/2013 22:02	5.2	93	67	7.5	23
10/27/2013 22:03	5.1	95	65	9.4	7
10/27/2013 22:04	4.9	97	63	11.1	13
10/27/2013 22:05	5.1	95	60	11.3	10
10/27/2013 22:06	4.5	102	59	6.3	5
10/27/2013 22:07	4.9	97	60	14.6	15
10/27/2013 22:08	4.8	98	58	10.1	17
10/27/2013 22:09	5.1	95	58	8.7	20
10/27/2013 22:10	4.8	99	61	10.3	23
10/27/2013 22:11	4.6	101	61	8	12
10/27/2013 22:12	4.6	101	64	8.1	17
10/27/2013 22:13	4.5	102	67	15	24
10/27/2013 22:14	5.1	95	66	10.6	15
10/27/2013 22:15	4.8	98	69	14.5	16
10/27/2013 22:16	4.4	103	71	11.9	28
10/27/2013 22:17	4.5	102	73	11.7	25
10/27/2013 22:18	4.5	103	76	13.5	19
10/27/2013 22:19	4.8	98	79	10.8	29
10/27/2013 22:20	4.7	100	83	11.9	32
10/27/2013 22:21	4.8	99	88	13.1	32
10/27/2013 22:22	4.6	101	92	14.5	26
10/27/2013 22:23	4.8	99	93	11.1	23
10/27/2013 22:24	4.2	106	95	11.3	27
10/27/2013 22:25	4.6	102	97	15	26
10/27/2013 22:26	4.5	103	97	10.6	20
10/27/2013 22:27	4.7	100	99	12.9	24
10/27/2013 22:28	4.9	98	100	8.9	23
10/27/2013 22:29	4.9	98	103	14.7	18
10/27/2013 22:30	4.8	98	103	17.3	27
10/27/2013 22:31	4.8	98	102	12	27
10/27/2013 22:32	4.8	99	102	15.4	32
10/27/2013 22:33	4.8	98	101	14.8	26
10/27/2013 22:34	4.9	97	104	11.6	23
10/27/2013 22:35	4.5	103	105	13.5	30

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/27/2013 22:36	4.7	99	105	14.8	12
10/27/2013 22:37	4.9	97	103	12.1	20
10/27/2013 22:38	5.1	94	103	10.1	26
10/27/2013 22:39	5	96	105	10	23
10/27/2013 22:40	4.7	100	104	10.5	25
10/27/2013 22:41	4.8	99	104	14.4	34
10/27/2013 22:42	5.1	95	103	14.4	29
10/27/2013 22:43	5.8	86	106	13.9	29
10/27/2013 22:44	5.9	85	116	10.8	27
10/27/2013 22:45	5.9	85	127	14.3	25
10/27/2013 22:46	5.8	86	138	13.5	27
10/27/2013 22:47	6.6	78	148	12.7	17
10/27/2013 22:48	7.7	69	159	16.8	25
10/27/2013 22:49	8.1	65	176	9.5	20
10/27/2013 22:50	7.6	69	195	12.9	14
10/27/2013 22:51	7.5	70	210	12.8	28
10/27/2013 22:52	8.1	65	226	16.9	29
10/27/2013 22:53	8.3	64	243	11.1	24
10/27/2013 22:54	8.5	62	264	11.3	20
10/27/2013 22:55	8.3	64	278	11.2	26
10/27/2013 22:56	7.5	70	288	11.6	35
10/27/2013 22:57	7.4	70	293	14.7	21
10/27/2013 22:58	7.7	68	297	14.2	19
10/27/2013 22:59	7.8	68	299	14.5	26
10/27/2013 23:00	7.2	73	298	10.3	20
10/27/2013 23:01	7.1	74	296	15.5	10
10/27/2013 23:02	7.4	71	292	14.8	15
10/27/2013 23:03	7.9	67	290	10.6	34
10/27/2013 23:04	8.3	64	292	14.1	16
10/27/2013 23:05	8.4	64	298	12.8	25
10/27/2013 23:06	8.9	60	308	9.5	25
10/27/2013 23:07	9	59	321	14.7	27
10/27/2013 23:08	8.7	61	333	19.6	36
10/27/2013 23:09	9.4	57	346	19.4	29
10/27/2013 23:10	9.8	55	356	13.5	28
10/27/2013 23:11	8.7	61	363	13.6	28
10/27/2013 23:12	9	60	364	12.9	32
10/27/2013 23:13	8.3	64	361	11.9	8
10/27/2013 23:14	8.1	65	353	6.8	9

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/27/2013 23:15	7.9	67	343	10	359
10/27/2013 23:16	7.6	69	333	12.4	2
10/27/2013 23:17	7.2	73	321	13.1	356
10/27/2013 23:18	7.4	71	309	13.9	355
10/27/2013 23:19	7.5	70	300	8.9	23
10/27/2013 23:20	7.9	67	296	9.8	14
10/27/2013 23:21	8.2	65	287	12.6	360
10/27/2013 23:22	8	66	275	8.1	359
10/27/2013 23:23	7.3	72	264	5.9	7
10/27/2013 23:24	7.5	70	258	5.7	10
10/27/2013 23:25	8.1	66	253	8.2	8
10/27/2013 23:26	7.7	68	245	12.4	23
10/27/2013 23:27	7.6	69	236	10.7	10
10/27/2013 23:28	6.8	76	225	8.8	18
10/27/2013 23:29	6.6	78	215	11.4	4
10/27/2013 23:30	6.6	78	207	16.8	13
10/27/2013 23:31	6.6	78	200	9.9	359
10/27/2013 23:32	6.8	76	194	8.9	357
10/27/2013 23:33	7	74	191	9.9	360
10/27/2013 23:34	6.8	76	192	12.6	16
10/27/2013 23:35	6.4	80	191	11.7	11
10/27/2013 23:36	6.8	76	188	12.8	11
10/27/2013 23:37	6.4	80	185	7.9	356
10/27/2013 23:38	6.5	79	183	13	5
10/27/2013 23:39	6.4	80	181	12.5	12
10/27/2013 23:40	6.2	82	181	12.2	7
10/27/2013 23:41	5.9	85	181	10.2	360
10/27/2013 23:42	6.1	83	179	11.3	352
10/27/2013 23:43	6.1	83	176	11	356
10/27/2013 23:44	5.7	87	172	8.8	5
10/27/2013 23:45	6.2	82	170	9.2	352
10/27/2013 23:46	6.1	83	165	10.3	348
10/27/2013 23:47	5.9	86	161	10.3	344
10/27/2013 23:48	6.1	83	160	7	344
10/27/2013 23:49	6.2	82	160	9.7	342
10/27/2013 23:50	6.7	77	160	8.5	344
10/27/2013 23:51	6.8	76	162	8.4	355
10/27/2013 23:52	7.2	73	163	9.7	343
10/27/2013 23:53	6.5	79	163	8	354

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/27/2013 23:54	6.6	78	163	8.7	339
10/27/2013 23:55	6.7	77	164	7.5	337
10/27/2013 23:56	6.9	75	165	11.2	342
10/27/2013 23:57	6.7	77	168	13.7	345
10/27/2013 23:58	6.7	77	170	8.5	344
10/27/2013 23:59	6.7	77	171	6.2	333
10/28/2013 0:00	7	75	177	6.7	341
10/28/2013 0:01	7	75	179	8.2	323
10/28/2013 0:02	7	75	182	8.6	346
10/28/2013 0:03	6.8	76	184	6.6	351
10/28/2013 0:04	6.9	75	186	6.2	350
10/28/2013 0:05	7	75	189	9.8	343
10/28/2013 0:06	7.6	69	192	9.9	343
10/28/2013 0:07	7.2	72	195	8.5	349
10/28/2013 0:08	6.7	77	199	5.1	311
10/28/2013 0:09	7.3	72	202	5.1	9
10/28/2013 0:10	7.1	73	201	10.1	353
10/28/2013 0:11	7.3	71	202	9.9	1
10/28/2013 0:12	7.7	69	205	5.2	35
10/28/2013 0:13	7.4	71	209	9.9	357
10/28/2013 0:14	7.4	71	211	8.1	347
10/28/2013 0:15	7.8	68	217	5.4	359
10/28/2013 0:16	7.9	67	223	6.9	353
10/28/2013 0:17	7.8	68	226	5.9	14
10/28/2013 0:18	7.8	68	230	5.3	6
10/28/2013 0:19	8.3	64	233	7.7	342
10/28/2013 0:20	8.4	63	236	12.9	350
10/28/2013 0:21	8.1	65	239	6.8	9
10/28/2013 0:22	8.3	64	242	11.9	11
10/28/2013 0:23	7.9	67	248	7.6	360
10/28/2013 0:24	8	66	254	8	19
10/28/2013 0:25	8	66	260	9.8	18
10/28/2013 0:26	7.9	67	266	9.3	9
10/28/2013 0:27	7.8	68	273	6.1	353
10/28/2013 0:28	7.6	69	278	9.1	347
10/28/2013 0:29	7.4	71	282	4.8	8
10/28/2013 0:30	7.8	68	282	7.1	23
10/28/2013 0:31	8.3	64	280	10.6	36
10/28/2013 0:32	7.9	67	277	9.9	17

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 0:33	7.7	68	273	19.3	15
10/28/2013 0:34	7.9	67	275	12.3	35
10/28/2013 0:35	7.3	72	276	8.5	22
10/28/2013 0:36	7.1	73	275	15.2	26
10/28/2013 0:37	7.1	73	273	16.5	27
10/28/2013 0:38	7.5	70	270	14.1	28
10/28/2013 0:39	7.2	73	268	12.6	29
10/28/2013 0:40	7.1	74	266	13.3	25
10/28/2013 0:41	7	74	262	12.2	31
10/28/2013 0:42	7.1	73	260	14.9	15
10/28/2013 0:43	6.8	76	255	8	13
10/28/2013 0:44	6.7	77	252	16	30
10/28/2013 0:45	6.6	78	249	18.7	27
10/28/2013 0:46	6.7	77	246	14.6	22
10/28/2013 0:47	6.6	78	244	14.5	36
10/28/2013 0:48	6.4	80	242	10.6	32
10/28/2013 0:49	6.9	75	240	11	20
10/28/2013 0:50	7.1	74	240	19	26
10/28/2013 0:51	7.2	73	240	12.7	31
10/28/2013 0:52	7.2	72	242	11.4	38
10/28/2013 0:53	6.6	78	246	13.7	30
10/28/2013 0:54	7	74	248	13.7	29
10/28/2013 0:55	7.7	68	247	14.1	31
10/28/2013 0:56	7.3	72	245	13.3	28
10/28/2013 0:57	6.8	76	242	13	29
10/28/2013 0:58	6.8	76	244	17.3	36
10/28/2013 0:59	7	74	262	16.5	25
10/28/2013 1:00	6.9	75	276	15.4	30
10/28/2013 1:01	7.1	74	285	12.2	18
10/28/2013 1:02	7.1	74	288	8.4	28
10/28/2013 1:03	6.9	75	288	6.7	31
10/28/2013 1:04	6.8	76	283	14.3	28
10/28/2013 1:05	6.2	82	274	13.2	32
10/28/2013 1:06	6.3	81	265	11.2	29
10/28/2013 1:07	6.6	78	259	17.4	33
10/28/2013 1:08	7.3	71	252	12.3	25
10/28/2013 1:09	7.1	74	246	10.5	28
10/28/2013 1:10	7.6	70	240	18.1	23
10/28/2013 1:11	8.5	62	239	14.9	39

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 1:12	7.6	69	240	9.1	19
10/28/2013 1:13	7.3	72	238	16	17
10/28/2013 1:14	7	75	234	13.2	33
10/28/2013 1:15	6.4	80	235	14.1	37
10/28/2013 1:16	6.4	80	235	10.3	27
10/28/2013 1:17	6.8	76	235	12.1	31
10/28/2013 1:18	7.3	72	234	15.9	29
10/28/2013 1:19	7.2	73	232	11.8	26
10/28/2013 1:20	7.2	73	231	14.3	29
10/28/2013 1:21	7.2	73	231	13.3	34
10/28/2013 1:22	7.4	71	229	12.3	34
10/28/2013 1:23	7.7	69	229	15.5	34
10/28/2013 1:24	7.5	70	233	19.3	42
10/28/2013 1:25	7.7	68	241	12.6	29
10/28/2013 1:26	8.4	63	253	13.2	30
10/28/2013 1:27	9.2	58	266	12.8	31
10/28/2013 1:28	9.5	56	283	14.1	30
10/28/2013 1:29	9.7	55	301	14.6	38
10/28/2013 1:30	10.8	50	324	16.7	29
10/28/2013 1:31	10.5	51	350	16.4	27
10/28/2013 1:32	10.8	49	376	19.8	35
10/28/2013 1:33	11.7	46	400	15.9	30
10/28/2013 1:34	11.3	47	423	16.3	43
10/28/2013 1:35	11.5	47	444	20	42
10/28/2013 1:36	12.7	42	467	16.7	29
10/28/2013 1:37	13.1	40	498	14.7	27
10/28/2013 1:38	13.2	40	528	16.2	38
10/28/2013 1:39	13.1	40	562	12.1	23
10/28/2013 1:40	13.1	40	591	11.1	35
10/28/2013 1:41	12.9	41	609	17.2	26
10/28/2013 1:42	13.4	39	625	15.3	34
10/28/2013 1:43	12.3	43	636	15.4	34
10/28/2013 1:44	11.5	47	639	12.4	22
10/28/2013 1:45	11.9	45	638	15.6	35
10/28/2013 1:46	12.3	43	633	16.8	28
10/28/2013 1:47	12.6	42	630	13.9	34
10/28/2013 1:48	12.2	44	628	15.1	28
10/28/2013 1:49	13.4	39	626	21.4	31
10/28/2013 1:50	15.4	34	634	15	29

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 1:51	14.4	36	650	18.8	39
10/28/2013 1:52	12.7	42	657	19.8	30
10/28/2013 1:53	11.7	46	658	20.8	26
10/28/2013 1:54	11.2	48	655	18.6	19
10/28/2013 1:55	10.3	52	645	11.3	27
10/28/2013 1:56	9.1	59	628	17.8	30
10/28/2013 1:57	8.4	63	605	17.7	31
10/28/2013 1:58	8.6	62	578	9.5	27
10/28/2013 1:59	8.7	61	549	16.2	29
10/28/2013 2:00	7.7	68	516	10.3	24
10/28/2013 2:01	7	74	480	16.6	28
10/28/2013 2:02	6.8	76	446	14.8	25
10/28/2013 2:03	7.3	72	418	17.3	24
10/28/2013 2:04	8.3	64	396	13.2	26
10/28/2013 2:05	8.3	64	383	15.5	26
10/28/2013 2:06	9.4	57	376	15.7	30
10/28/2013 2:07	9.9	54	373	18.8	24
10/28/2013 2:08	9.1	59	373	23.3	26
10/28/2013 2:09	9.8	55	383	17.9	18
10/28/2013 2:10	9.4	57	400	14.5	28
10/28/2013 2:11	8.9	60	421	19.7	23
10/28/2013 2:12	9.2	58	431	13.9	21
10/28/2013 2:13	8.8	61	436	18.5	28
10/28/2013 2:14	8.2	64	433	16.3	20
10/28/2013 2:15	8.3	64	427	15.1	20
10/28/2013 2:16	7.8	68	417	16.5	23
10/28/2013 2:17	7.7	68	406	12.4	21
10/28/2013 2:18	7.5	70	396	12.5	12
10/28/2013 2:19	7.8	68	385	12.8	20
10/28/2013 2:20	7.7	69	374	17.4	23
10/28/2013 2:21	7.3	71	361	11.9	20
10/28/2013 2:22	7.1	73	349	14	12
10/28/2013 2:23	7.3	71	336	16.2	12
10/28/2013 2:24	7.2	72	327	18	24
10/28/2013 2:25	7.7	69	326	13.8	27
10/28/2013 2:26	7.3	71	334	14.8	21
10/28/2013 2:27	7.6	69	337	14.6	28
10/28/2013 2:28	7.6	69	338	7.9	28
10/28/2013 2:29	7.7	68	334	10.8	20

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 2:30	7.4	71	328	14.9	16
10/28/2013 2:31	7	74	318	12.1	22
10/28/2013 2:32	6.5	79	306	13.7	17
10/28/2013 2:33	6.6	78	295	14.7	20
10/28/2013 2:34	6.4	80	284	12.5	22
10/28/2013 2:35	6.3	81	274	15.8	18
10/28/2013 2:36	6.4	80	265	19.4	24
10/28/2013 2:37	7.7	68	260	16.6	26
10/28/2013 2:38	7	75	260	17.8	25
10/28/2013 2:39	6.3	80	256	10.3	22
10/28/2013 2:40	7	74	256	13.6	32
10/28/2013 2:41	7.3	72	256	14	21
10/28/2013 2:42	7.2	72	255	16.7	27
10/28/2013 2:43	7.3	71	264	16	23
10/28/2013 2:44	7.1	74	275	13.5	28
10/28/2013 2:45	7	75	281	11.4	22
10/28/2013 2:46	7.1	73	284	10.8	18
10/28/2013 2:47	7.3	72	283	17.9	18
10/28/2013 2:48	6.5	79	277	10.9	23
10/28/2013 2:49	6	84	271	15.8	16
10/28/2013 2:50	6.3	81	265	9	14
10/28/2013 2:51	6	84	258	6.6	28
10/28/2013 2:52	6.4	80	249	11.6	16
10/28/2013 2:53	6	84	239	16.1	24
10/28/2013 2:54	6.1	83	230	18.9	25
10/28/2013 2:55	6.5	79	224	11.3	21
10/28/2013 2:56	6.1	83	221	12.6	24
10/28/2013 2:57	5.8	86	217	10.2	22
10/28/2013 2:58	5.7	88	213	18.5	24
10/28/2013 2:59	5.7	88	210	14.8	23
10/28/2013 3:00	5.7	87	209	13.3	26
10/28/2013 3:01	5.6	88	206	17.9	21
10/28/2013 3:02	5.5	90	201	16.2	27
10/28/2013 3:03	5.6	88	194	11.7	27
10/28/2013 3:04	5.9	85	190	16.7	21
10/28/2013 3:05	5.8	86	187	19.8	26
10/28/2013 3:06	6.4	80	186	14.8	21
10/28/2013 3:07	6.2	82	186	16.4	20
10/28/2013 3:08	5.8	86	184	20.5	26

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 3:09	5.9	85	181	16.2	21
10/28/2013 3:10	6.1	83	181	14.5	20
10/28/2013 3:11	6.1	83	181	11	21
10/28/2013 3:12	5.8	87	182	14.4	21
10/28/2013 3:13	6	84	183	15.8	19
10/28/2013 3:14	5.6	88	189	14.1	21
10/28/2013 3:15	5.6	89	190	15.9	13
10/28/2013 3:16	5.3	93	188	17.8	26
10/28/2013 3:17	5.4	91	189	11.8	22
10/28/2013 3:18	5.6	88	192	17.2	21
10/28/2013 3:19	5.5	89	190	17.1	27
10/28/2013 3:20	5.2	93	186	10.7	26
10/28/2013 3:21	5.2	94	182	14.1	24
10/28/2013 3:22	5.4	91	179	20.1	28
10/28/2013 3:23	6.2	82	176	14.6	20
10/28/2013 3:24	5.8	87	173	13.3	24
10/28/2013 3:25	5.9	85	169	13.3	21
10/28/2013 3:26	5.9	85	165	17.5	22
10/28/2013 3:27	6.1	83	164	13.5	22
10/28/2013 3:28	5.8	86	165	14.7	27
10/28/2013 3:29	5.8	86	165	13.8	12
10/28/2013 3:30	6	84	165	16.6	28
10/28/2013 3:31	6.1	83	166	16.1	25
10/28/2013 3:32	6.3	81	170	15.5	22
10/28/2013 3:33	6.4	80	176	15.9	23
10/28/2013 3:34	6.4	80	181	16.5	24
10/28/2013 3:35	6.6	78	186	22.4	17
10/28/2013 3:36	7.6	69	199	18.6	18
10/28/2013 3:37	6.9	76	234	16.3	24
10/28/2013 3:38	6.4	80	259	15.3	22
10/28/2013 3:39	6.5	79	270	14.3	28
10/28/2013 3:40	6.4	80	272	15.6	20
10/28/2013 3:41	6.9	75	272	21.6	22
10/28/2013 3:42	7.9	67	291	18.6	28
10/28/2013 3:43	7.8	68	340	15.9	22
10/28/2013 3:44	6.5	79	371	19.6	28
10/28/2013 3:45	7.4	71	387	23	23
10/28/2013 3:46	7.6	69	399	15.7	20
10/28/2013 3:47	7.4	71	398	21.6	26

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 3:48	6.8	76	386	16	22
10/28/2013 3:49	6.8	76	372	13.3	17
10/28/2013 3:50	6.7	77	357	14.9	26
10/28/2013 3:51	6.7	77	340	17.9	19
10/28/2013 3:52	7.3	72	323	23.4	25
10/28/2013 3:53	7.7	68	320	18.6	27
10/28/2013 3:54	6.7	77	355	19.2	18
10/28/2013 3:55	6.5	79	378	17.9	27
10/28/2013 3:56	6.4	80	381	15	22
10/28/2013 3:57	6.7	77	372	15.5	24
10/28/2013 3:58	6.7	77	353	17.1	15
10/28/2013 3:59	6.7	77	333	14.7	27
10/28/2013 4:00	6.7	77	316	16.1	23
10/28/2013 4:01	6.3	81	299	14.4	16
10/28/2013 4:02	6.1	83	282	17.7	19
10/28/2013 4:03	6.2	82	267	10.2	17
10/28/2013 4:04	6.1	83	253	18.6	24
10/28/2013 4:05	6.8	76	240	17.5	19
10/28/2013 4:06	6.8	76	231	19.8	15
10/28/2013 4:07	6.5	79	227	19.1	23
10/28/2013 4:08	6.7	77	226	16.4	18
10/28/2013 4:09	6.3	81	224	14.3	24
10/28/2013 4:10	6.7	77	223	18.2	19
10/28/2013 4:11	7.2	72	223	21.6	22
10/28/2013 4:12	6.8	76	222	21.2	16
10/28/2013 4:13	6.9	75	222	16.2	18
10/28/2013 4:14	7.2	73	225	18.9	15
10/28/2013 4:15	7.3	72	228	19.9	25
10/28/2013 4:16	7.5	70	230	14.7	21
10/28/2013 4:17	7.2	72	232	21.2	17
10/28/2013 4:18	7.9	67	232	17	24
10/28/2013 4:19	7.5	70	234	19.2	14
10/28/2013 4:20	7.3	72	239	15.2	22
10/28/2013 4:21	7.4	71	242	15.8	23
10/28/2013 4:22	7.9	67	244	15.4	16
10/28/2013 4:23	8	66	246	20.8	21
10/28/2013 4:24	8.2	65	249	23.2	22
10/28/2013 4:25	8.9	60	258	15.3	20
10/28/2013 4:26	9	59	278	19.6	14

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 4:27	8.9	60	313	18	18
10/28/2013 4:28	8.9	60	339	17.1	28
10/28/2013 4:29	8.7	61	350	23	19
10/28/2013 4:30	9.1	59	359	22.1	15
10/28/2013 4:31	8.8	60	374	16.8	26
10/28/2013 4:32	9.2	58	389	12.9	19
10/28/2013 4:33	8.7	61	395	17.4	23
10/28/2013 4:34	9.1	59	392	15.3	22
10/28/2013 4:35	9.5	56	387	10.9	19
10/28/2013 4:36	9.3	57	384	19	19
10/28/2013 4:37	10.1	53	382	18.8	24
10/28/2013 4:38	10.9	49	385	19	23
10/28/2013 4:39	11.1	48	389	20.3	20
10/28/2013 4:40	11.6	46	398	16.1	24
10/28/2013 4:41	11	48	408	19.4	19
10/28/2013 4:42	10.5	51	407	18.6	21
10/28/2013 4:43	10.6	51	399	20.7	25
10/28/2013 4:44	10.4	51	400	20.9	20
10/28/2013 4:45	11	49	405	18.5	16
10/28/2013 4:46	10.6	51	413	25.8	25
10/28/2013 4:47	11	48	432	21	24
10/28/2013 4:48	10.8	50	450	19.7	22
10/28/2013 4:49	10.7	50	461	15	26
10/28/2013 4:50	10.5	51	466	24	21
10/28/2013 4:51	11.2	48	467	21	24
10/28/2013 4:52	11	48	469	15.1	17
10/28/2013 4:53	10.9	49	471	16	17
10/28/2013 4:54	10.9	49	472	16.3	23
10/28/2013 4:55	10.8	49	473	13.8	19
10/28/2013 4:56	11.1	48	470	17.9	28
10/28/2013 4:57	11.1	48	465	18.7	21
10/28/2013 4:58	10.5	51	462	13.9	19
10/28/2013 4:59	9.9	54	462	25	29
10/28/2013 5:00	12.8	42	474	17.7	27
10/28/2013 5:01	11.8	45	548	15.7	28
10/28/2013 5:02	11.1	48	618	21.8	30
10/28/2013 5:03	11.1	48	655	18.1	27
10/28/2013 5:04	11.7	46	674	19.2	26
10/28/2013 5:05	11.6	46	675	18.5	29

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 5:06	11.9	45	678	19.7	27
10/28/2013 5:07	12.3	43	686	18.5	17
10/28/2013 5:08	11.2	48	676	15.3	21
10/28/2013 5:09	11.9	45	658	17.3	34
10/28/2013 5:10	13.5	39	641	19.2	26
10/28/2013 5:11	12.7	42	629	20.6	21
10/28/2013 5:12	12.7	42	637	17.4	23
10/28/2013 5:13	12.3	43	652	13.3	24
10/28/2013 5:14	12.5	42	655	21.1	29
10/28/2013 5:15	14.1	37	658	16.9	25
10/28/2013 5:16	12.3	43	664	17	27
10/28/2013 5:17	11.3	47	659	18	24
10/28/2013 5:18	11.5	47	648	19.1	26
10/28/2013 5:19	11.8	45	630	21.3	32
10/28/2013 5:20	12	44	608	24.4	29
10/28/2013 5:21	11.3	47	588	22.8	30
10/28/2013 5:22	10.5	51	571	19.3	26
10/28/2013 5:23	11.3	47	554	28.6	31
10/28/2013 5:24	13.3	40	568	21.1	29
10/28/2013 5:25	11.8	45	590	16.4	28
10/28/2013 5:26	10.9	49	593	25.8	29
10/28/2013 5:27	12.2	44	591	22.2	28
10/28/2013 5:28	12	45	610	19.4	25
10/28/2013 5:29	11.6	46	622	19.3	31
10/28/2013 5:30	11.3	47	625	26.8	35
10/28/2013 5:31	12.5	42	630	22.2	29
10/28/2013 5:32	11	49	652	21.9	32
10/28/2013 5:33	11.4	47	663	23.9	33
10/28/2013 5:34	11.2	48	660	22.2	34
10/28/2013 5:35	11.4	47	648	17.7	28
10/28/2013 5:36	11.2	48	630	24.4	32
10/28/2013 5:37	12.4	43	607	17.8	31
10/28/2013 5:38	11.6	46	587	11.1	27
10/28/2013 5:39	10.8	49	568	15.6	36
10/28/2013 5:40	11.3	47	551	20.3	21
10/28/2013 5:41	11.2	48	534	18.4	33
10/28/2013 5:42	11.2	48	517	24.1	29
10/28/2013 5:43	12.2	44	514	16.7	28
10/28/2013 5:44	11.2	48	519	21	24

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 5:45	11.6	46	518	14.1	27
10/28/2013 5:46	11.3	47	511	17.6	29
10/28/2013 5:47	10.9	49	505	20.2	28
10/28/2013 5:48	11.4	47	497	25.7	28
10/28/2013 5:49	15.6	33	500	25.9	28
10/28/2013 5:50	14.2	37	561	17.7	34
10/28/2013 5:51	11.4	47	621	17.7	34
10/28/2013 5:52	10.6	51	642	15.9	29
10/28/2013 5:53	10.6	50	641	19.7	31
10/28/2013 5:54	11.5	46	625	23.8	28
10/28/2013 5:55	11.9	45	607	23.4	35
10/28/2013 5:56	11.6	46	588	21.1	34
10/28/2013 5:57	11.6	46	569	18.8	32
10/28/2013 5:58	11.2	47	551	18.7	33
10/28/2013 5:59	11	49	534	22.7	32
10/28/2013 6:00	10.6	51	517	17.2	33
10/28/2013 6:01	11	48	500	20.7	37
10/28/2013 6:02	10.8	49	490	15.7	31
10/28/2013 6:03	10.4	51	485	18.5	31
10/28/2013 6:04	10.5	51	475	20.8	33
10/28/2013 6:05	11	49	465	17.7	22
10/28/2013 6:06	10.4	51	455	17.5	31
10/28/2013 6:07	10.3	52	443	24.3	28
10/28/2013 6:08	11.5	47	446	25.9	35
10/28/2013 6:09	12.4	43	486	20.7	34
10/28/2013 6:10	10.6	50	513	21.2	29
10/28/2013 6:11	10.4	51	521	23.3	28
10/28/2013 6:12	10.2	52	515	19.5	32
10/28/2013 6:13	10	54	503	17.5	28
10/28/2013 6:14	9.5	56	486	17.2	29
10/28/2013 6:15	10	53	467	22.9	35
10/28/2013 6:16	10.6	50	450	18	28
10/28/2013 6:17	10	54	443	13.8	34
10/28/2013 6:18	10.2	52	442	19.3	31
10/28/2013 6:19	10.7	50	438	19.7	31
10/28/2013 6:20	11.2	47	433	25.4	28
10/28/2013 6:21	10.9	49	435	22.9	26
10/28/2013 6:22	11.1	48	442	22.2	29
10/28/2013 6:23	11.3	47	447	20.6	30

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 6:24	11.8	45	494	24.8	27
10/28/2013 6:25	11.9	45	596	16.7	30
10/28/2013 6:26	11.1	48	655	16	37
10/28/2013 6:27	11	49	665	21.4	32
10/28/2013 6:28	10.8	50	649	21.5	35
10/28/2013 6:29	10.7	50	624	19.9	25
10/28/2013 6:30	10.8	50	600	18.5	30
10/28/2013 6:31	10.9	49	573	18.1	31
10/28/2013 6:32	11.4	47	548	17.9	30
10/28/2013 6:33	11.3	47	526	15.7	37
10/28/2013 6:34	10.8	49	505	19.7	31
10/28/2013 6:35	11.4	47	487	21.9	33
10/28/2013 6:36	11.8	45	477	20	35
10/28/2013 6:37	11.3	47	470	17.1	27
10/28/2013 6:38	11.6	46	463	21.7	30
10/28/2013 6:39	11.3	47	461	25.1	32
10/28/2013 6:40	11.5	46	455	20.6	35
10/28/2013 6:41	11.3	47	447	19.8	37
10/28/2013 6:42	10.8	49	440	19.1	23
10/28/2013 6:43	10.8	50	436	19.2	29
10/28/2013 6:44	10.4	52	430	17.1	28
10/28/2013 6:45	10.5	51	425	22.9	34
10/28/2013 6:46	10.7	50	421	25.5	31
10/28/2013 6:47	11.4	47	422	23.4	33
10/28/2013 6:48	10.9	49	430	18.1	34
10/28/2013 6:49	9.9	54	429	21.6	37
10/28/2013 6:50	9.7	55	424	17.1	27
10/28/2013 6:51	9.1	59	418	13.6	27
10/28/2013 6:52	8.9	60	408	18.4	28
10/28/2013 6:53	9.4	57	392	26.3	31
10/28/2013 6:54	9.7	55	378	19.7	25
10/28/2013 6:55	9.3	57	367	18.5	30
10/28/2013 6:56	8.8	61	358	14.3	28
10/28/2013 6:57	8.3	64	347	18.7	35
10/28/2013 6:58	8.4	63	332	17.6	25
10/28/2013 6:59	8.4	63	319	17.1	35
10/28/2013 7:00	8	66	307	18.3	35
10/28/2013 7:01	7.9	67	297	17.8	28
10/28/2013 7:02	8	66	289	21.5	34

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 7:03	7.4	71	283	17.4	33
10/28/2013 7:04	7.7	68	280	21.9	36
10/28/2013 7:05	8.2	65	276	20.7	31
10/28/2013 7:06	7.6	69	271	22.9	29
10/28/2013 7:07	7.9	67	266	21.6	35
10/28/2013 7:08	8	66	262	19.2	37
10/28/2013 7:09	7.6	69	258	20.9	33
10/28/2013 7:10	7.4	71	252	24.1	30
10/28/2013 7:11	8.8	61	261	24.4	39
10/28/2013 7:12	8.3	64	331	15.8	31
10/28/2013 7:13	7.7	69	407	24.5	36
10/28/2013 7:14	8.6	62	441	22.1	32
10/28/2013 7:15	8.4	63	450	17.3	32
10/28/2013 7:16	7.8	68	442	21.8	41
10/28/2013 7:17	7.7	68	426	17.7	38
10/28/2013 7:18	7.7	68	408	21.3	35
10/28/2013 7:19	7.6	70	389	16.6	35
10/28/2013 7:20	7.6	69	369	15.9	33
10/28/2013 7:21	7.7	69	348	15.8	33
10/28/2013 7:22	7.7	69	330	21.6	34
10/28/2013 7:23	8.3	64	319	20.4	33
10/28/2013 7:24	8.2	65	313	21	28
10/28/2013 7:25	8.4	64	307	23.8	35
10/28/2013 7:26	8.7	61	300	20.4	34
10/28/2013 7:27	8.3	64	294	22.2	31
10/28/2013 7:28	7.8	67	292	19.3	33
10/28/2013 7:29	7.7	68	290	23.5	36
10/28/2013 7:30	8.1	65	286	22.9	39
10/28/2013 7:31	7.7	68	286	22	37
10/28/2013 7:32	8.6	62	287	24.9	31
10/28/2013 7:33	8.6	62	286	20.8	30
10/28/2013 7:34	8.6	62	289	22.2	28
10/28/2013 7:35	8.7	61	290	19.3	42
10/28/2013 7:36	8.5	63	288	21.3	37
10/28/2013 7:37	8.8	61	285	28.3	33
10/28/2013 7:38	11.5	46	296	22.3	36
10/28/2013 7:39	10.2	53	312	22.3	36
10/28/2013 7:40	8.9	60	319	16.4	33
10/28/2013 7:41	8.4	63	321	18.5	30

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 7:42	8.6	62	321	19.9	39
10/28/2013 7:43	8.8	60	319	18.8	31
10/28/2013 7:44	8.9	60	316	17.1	37
10/28/2013 7:45	8.9	60	314	20.5	35
10/28/2013 7:46	9.3	58	311	19.3	36
10/28/2013 7:47	9.6	56	312	19.2	34
10/28/2013 7:48	9.4	57	314	22.4	33
10/28/2013 7:49	10.3	52	318	25.5	37
10/28/2013 7:50	11.2	48	335	25.4	34
10/28/2013 7:51	10.9	49	352	21.5	33
10/28/2013 7:52	11.2	48	372	14.5	31
10/28/2013 7:53	10.4	52	387	21.9	32
10/28/2013 7:54	11	48	405	20.1	34
10/28/2013 7:55	10.3	52	423	16.3	34
10/28/2013 7:56	10	54	431	18.9	36
10/28/2013 7:57	10.2	53	429	19.1	36
10/28/2013 7:58	10.6	50	424	22.1	36
10/28/2013 7:59	10.5	51	416	14.6	35
10/28/2013 8:00	10.2	53	406	13.9	33
10/28/2013 8:01	10.3	52	396	18.8	39
10/28/2013 8:02	10.8	50	387	24.7	32
10/28/2013 8:03	11.1	48	377	23.6	29
10/28/2013 8:04	11.1	48	378	20	36
10/28/2013 8:05	11	49	397	21.4	39
10/28/2013 8:06	11.4	47	406	17.2	34
10/28/2013 8:07	11.6	46	408	23.4	31
10/28/2013 8:08	12.1	44	408	21.3	34
10/28/2013 8:09	10.5	51	406	17.9	29
10/28/2013 8:10	10.5	51	401	16.9	33
10/28/2013 8:11	10.1	53	396	20.3	32
10/28/2013 8:12	10.9	49	389	19.7	31
10/28/2013 8:13	10.8	49	382	19	33
10/28/2013 8:14	10.5	51	377	19.5	32
10/28/2013 8:15	11.3	47	372	19.3	27
10/28/2013 8:16	11.2	48	369	17.2	27
10/28/2013 8:17	10.9	49	369	19.2	26
10/28/2013 8:18	10.1	53	369	17.2	32
10/28/2013 8:19	10	53	369	20.3	33
10/28/2013 8:20	9.6	56	366	19.6	31

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 8:21	9.5	56	361	18.5	30
10/28/2013 8:22	9.2	58	358	15.3	29
10/28/2013 8:23	9	59	360	23.1	38
10/28/2013 8:24	10.6	51	360	20.9	32
10/28/2013 8:25	10.4	51	359	23.6	30
10/28/2013 8:26	10	54	359	20.4	24
10/28/2013 8:27	9.8	54	359	20	32
10/28/2013 8:28	10.1	53	355	20.1	35
10/28/2013 8:29	10	53	351	18.7	35
10/28/2013 8:30	9.9	54	349	20.1	39
10/28/2013 8:31	10	53	347	19.4	26
10/28/2013 8:32	9.7	55	345	17.2	32
10/28/2013 8:33	9.5	56	342	14.7	32
10/28/2013 8:34	9.6	56	336	16	34
10/28/2013 8:35	9.7	55	327	16.6	30
10/28/2013 8:36	9.4	57	319	17.2	31
10/28/2013 8:37	9.9	54	311	19	34
10/28/2013 8:38	9.7	55	306	16.8	32
10/28/2013 8:39	9.6	56	304	22.2	34
10/28/2013 8:40	10.1	53	309	15.9	31
10/28/2013 8:41	10.1	53	331	14.7	30
10/28/2013 8:42	9.5	56	343	18	35
10/28/2013 8:43	9.7	55	345	16	34
10/28/2013 8:44	9.3	57	342	19.4	33
10/28/2013 8:45	9.4	57	333	16	34
10/28/2013 8:46	9.2	58	324	20	39
10/28/2013 8:47	9.5	56	315	19.1	39
10/28/2013 8:48	9.7	55	310	15.8	36
10/28/2013 8:49	9.3	57	307	18.4	41
10/28/2013 8:50	9	59	302	17.7	38
10/28/2013 8:51	9	59	295	18.1	35
10/28/2013 8:52	8.6	62	290	18.6	34
10/28/2013 8:53	8.8	61	284	19.6	32
10/28/2013 8:54	9.7	55	278	19.7	38
10/28/2013 8:55	9.1	59	275	15.8	34
10/28/2013 8:56	7.9	67	272	18.4	41
10/28/2013 8:57	8.3	64	266	20.2	36
10/28/2013 8:58	8.6	62	261	14.7	38
10/28/2013 8:59	8.2	64	258	15.5	36

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 9:00	7.9	67	258	16.3	44
10/28/2013 9:01	8.7	61	256	15.6	38
10/28/2013 9:02	8.8	61	256	15.5	40
10/28/2013 9:03	8.7	62	255	13.6	30
10/28/2013 9:04	8.5	63	255	17	37
10/28/2013 9:05	8.3	64	254	18.4	34
10/28/2013 9:06	8.4	63	254	11.7	34
10/28/2013 9:07	8.2	64	253	16.3	36
10/28/2013 9:08	8.2	65	252	19.3	37
10/28/2013 9:09	8.8	61	256	20.3	36
10/28/2013 9:10	8.9	60	259	16.7	29
10/28/2013 9:11	8.2	65	261	18.1	32
10/28/2013 9:12	7.7	69	260	18.8	32
10/28/2013 9:13	7.7	68	255	16.5	40
10/28/2013 9:14	7.7	69	250	13.1	28
10/28/2013 9:15	8.1	65	247	13.5	34
10/28/2013 9:16	7.7	68	245	17.6	31
10/28/2013 9:17	8.2	65	243	21.3	34
10/28/2013 9:18	10.3	52	244	19.7	34
10/28/2013 9:19	9.5	57	246	15.5	32
10/28/2013 9:20	8.3	64	249	19.8	31
10/28/2013 9:21	8.6	62	251	18.6	37
10/28/2013 9:22	8	66	254	21.2	32
10/28/2013 9:23	8.1	65	254	15	29
10/28/2013 9:24	7.5	70	257	14.9	37
10/28/2013 9:25	7.8	68	257	19.7	39
10/28/2013 9:26	8.1	65	251	20.7	37
10/28/2013 9:27	7.9	67	245	19.9	34
10/28/2013 9:28	7.5	70	241	15.5	31
10/28/2013 9:29	7.5	70	236	19.9	36
10/28/2013 9:30	7.6	69	230	17.4	24
10/28/2013 9:31	7.6	69	229	13.9	33
10/28/2013 9:32	7.7	69	227	18.2	39
10/28/2013 9:33	8.1	65	223	18.2	34
10/28/2013 9:34	7.8	68	220	12.3	32
10/28/2013 9:35	7.5	70	219	17.3	21
10/28/2013 9:36	7.6	69	219	16.8	35
10/28/2013 9:37	7	74	220	14.3	22
10/28/2013 9:38	7.1	73	219	19.4	26

KENMETA Date & Time PST	NPM25, ug/m^3	Visibility, Miles	TPM10, ug/m^3(s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 9:39	7.6	69	214	15.6	29
10/28/2013 9:40	7.6	70	210	14	29
10/28/2013 9:41	6.7	77	209	14.3	25
10/28/2013 9:42	7.2	72	208	15.1	29
10/28/2013 9:43	7.1	73	206	13.1	28
10/28/2013 9:44	7.3	72	202	15.8	29
10/28/2013 9:45	7	74	196	15.6	29
10/28/2013 9:46	7.5	70	194	12.3	26
10/28/2013 9:47	7.7	68	193	19.8	23
10/28/2013 9:48	7.8	67	190	18.5	21
10/28/2013 9:49	7.8	68	191	16.3	22
10/28/2013 9:50	6.9	75	193	18	23
10/28/2013 9:51	7.5	70	193	19.4	28
10/28/2013 9:52	7.9	67	197	17.2	28
10/28/2013 9:53	7.8	68	199	17.4	28
10/28/2013 9:54	8	66	200	18.1	33
10/28/2013 9:55	7.2	73	202	16.6	28
10/28/2013 9:56	6.8	77	204	14.4	26
10/28/2013 9:57	7	74	205	12.8	23
10/28/2013 9:58	6.6	78	204	13	28
10/28/2013 9:59	6.6	78	203	13.4	31
10/28/2013 10:00	7	74	199	10	27
10/28/2013 10:01	7.4	71	196	14.5	28
10/28/2013 10:02	7.1	74	192	14.4	25
10/28/2013 10:03	7.1	73	188	17	19
10/28/2013 10:04	6.9	75	180	20.9	29
10/28/2013 10:05	6.8	76	177	14.8	26
10/28/2013 10:06	6.7	77	175	16.4	29
10/28/2013 10:07	6.8	76	174	14.8	33
10/28/2013 10:08	6.8	76	175	13.9	23
10/28/2013 10:09	6.7	77	174	18.7	24
10/28/2013 10:10	7	74	181	14.5	26
10/28/2013 10:11	7.3	72	199	16.1	33
10/28/2013 10:12	7.2	73	208	15.5	27
10/28/2013 10:13	6.9	76	211	19.6	33
10/28/2013 10:14	6.9	75	207	14.6	28
10/28/2013 10:15	6.5	79	204	10	28
10/28/2013 10:16	6.2	82	202	14.7	28
10/28/2013 10:17	6.4	80	197	13.9	25

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 10:18	6.2	82	190	15.2	27
10/28/2013 10:19	6.1	83	183	14.1	30
10/28/2013 10:20	6.2	82	179	12.6	26
10/28/2013 10:21	6.3	81	177	11.5	25
10/28/2013 10:22	6.3	81	175	14.5	31
10/28/2013 10:23	6.9	76	173	13	27
10/28/2013 10:24	7.2	73	173	12	27
10/28/2013 10:25	7.5	70	170	17.2	34
10/28/2013 10:26	7.4	70	168	13.4	24
10/28/2013 10:27	7.1	73	171	11.3	27
10/28/2013 10:28	6.9	75	174	15.8	23
10/28/2013 10:29	6.9	76	176	17.6	22
10/28/2013 10:30	7	74	177	15.4	27
10/28/2013 10:31	7.2	72	180	12.3	25
10/28/2013 10:32	8	67	184	16.8	30
10/28/2013 10:33	9.5	56	188	18.7	26
10/28/2013 10:34	9	60	196	13.3	19
10/28/2013 10:35	7.7	69	204	11.2	22
10/28/2013 10:36	7.3	72	214	14.9	24
10/28/2013 10:37	7.5	70	221	13.4	24
10/28/2013 10:38	8.1	66	226	8.9	24
10/28/2013 10:39	8.2	65	231	12	28
10/28/2013 10:40	8	66	232	12.6	21
10/28/2013 10:41	8.1	66	233	10	21
10/28/2013 10:42	8.6	62	234	13.3	26
10/28/2013 10:43	8.9	60	238	11.6	32
10/28/2013 10:44	9.3	57	242	14.6	22
10/28/2013 10:45	9.8	55	245	12.2	24
10/28/2013 10:46	9.6	56	254	13.9	32
10/28/2013 10:47	11.3	48	264	15.8	29
10/28/2013 10:48	13.6	39	282	14.3	28
10/28/2013 10:49	13.5	39	305	13.3	28
10/28/2013 10:50	13.3	39	331	11.5	29
10/28/2013 10:51	14.2	37	354	20.9	35
10/28/2013 10:52	17.6	29	385	18	31
10/28/2013 10:53	17.8	28	423	20.2	22
10/28/2013 10:54	18.1	28	459	12.7	25
10/28/2013 10:55	17.9	28	493	11.8	26
10/28/2013 10:56	18	28	525	11.2	27

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 10:57	18.2	28	553	12.2	28
10/28/2013 10:58	18	28	574	14.9	32
10/28/2013 10:59	16.5	31	588	14.3	20
10/28/2013 11:00	15.9	32	596	17.8	26
10/28/2013 11:01	18.4	27	605	14.7	27
10/28/2013 11:02	18.1	28	619	18.5	31
10/28/2013 11:03	19.6	25	637	17.4	31
10/28/2013 11:04	19.4	25	652	15.8	23
10/28/2013 11:05	17.2	30	664	21.9	29
10/28/2013 11:06	15.8	33	683	20.5	32
10/28/2013 11:07	12.1	44	704	17.8	28
10/28/2013 11:08	11.3	47	698	13.6	19
10/28/2013 11:09	10.4	52	677	16.5	30
10/28/2013 11:10	10	53	642	14.5	28
10/28/2013 11:11	9.4	57	600	15.8	13
10/28/2013 11:12	8.6	62	555	10.4	32
10/28/2013 11:13	8.6	62	517	12.3	31
10/28/2013 11:14	8.6	62	481	15.9	26
10/28/2013 11:15	9.2	58	450	13.5	15
10/28/2013 11:16	9.1	58	425	14.6	32
10/28/2013 11:17	8.7	61	400	19.3	23
10/28/2013 11:18	8.5	62	373	19.8	24
10/28/2013 11:19	9.3	57	353	13.8	20
10/28/2013 11:20	9.2	58	339	11.1	30
10/28/2013 11:21	8.6	62	330	15.5	27
10/28/2013 11:22	9	60	321	16.5	29
10/28/2013 11:23	9.4	57	313	15.1	16
10/28/2013 11:24	9	60	307	16	15
10/28/2013 11:25	8.6	62	298	14.9	30
10/28/2013 11:26	8	66	289	16.5	21
10/28/2013 11:27	8.2	65	278	17.9	28
10/28/2013 11:28	9.1	59	268	15.8	28
10/28/2013 11:29	8.6	62	263	15.5	20
10/28/2013 11:30	8.4	63	261	19.1	26
10/28/2013 11:31	10.4	52	261	19.6	22
10/28/2013 11:32	11.3	47	265	16.7	27
10/28/2013 11:33	9.3	57	270	15	28
10/28/2013 11:34	9.1	59	275	12.9	11
10/28/2013 11:35	8.6	62	277	13.6	23

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 11:36	8.1	65	276	13.6	29
10/28/2013 11:37	7.8	68	275	18.6	27
10/28/2013 11:38	8.4	63	273	17.1	16
10/28/2013 11:39	7.7	69	272	18.4	23
10/28/2013 11:40	8.1	66	270	19.8	28
10/28/2013 11:41	8	66	267	14.5	26
10/28/2013 11:42	7.9	67	270	11.2	26
10/28/2013 11:43	7.5	70	273	16.6	20
10/28/2013 11:44	7.7	68	270	15.1	19
10/28/2013 11:45	8	66	265	16.7	32
10/28/2013 11:46	9	59	263	21	33
10/28/2013 11:47	10.7	50	266	16.2	33
10/28/2013 11:48	10.3	52	279	11.6	26
10/28/2013 11:49	9.5	57	291	15.1	32
10/28/2013 11:50	9.8	55	296	18.4	30
10/28/2013 11:51	10	54	296	21.6	23
10/28/2013 11:52	11.5	46	300	19.3	30
10/28/2013 11:53	11.3	47	311	20.5	27
10/28/2013 11:54	11.2	48	328	18.7	26
10/28/2013 11:55	11.5	46	372	17.1	25
10/28/2013 11:56	12.4	43	414	20.4	32
10/28/2013 11:57	12.1	44	435	16.5	25
10/28/2013 11:58	11.8	45	449	16.8	25
10/28/2013 11:59	10.4	51	450	18.6	30
10/28/2013 12:00	9.6	56	447	17.1	29
10/28/2013 12:01	9	59	439	16.7	23
10/28/2013 12:02	9.1	59	425	21.4	34
10/28/2013 12:03	10.5	51	416	18.1	29
10/28/2013 12:04	10.8	50	415	18.4	24
10/28/2013 12:05	10.5	51	413	17.8	25
10/28/2013 12:06	10.5	51	409	14.7	21
10/28/2013 12:07	9.4	57	404	17.1	18
10/28/2013 12:08	9.5	56	395	18.8	13
10/28/2013 12:09	9.4	57	385	17.6	24
10/28/2013 12:10	9.5	56	376	12.4	13
10/28/2013 12:11	9.2	58	369	11.4	21
10/28/2013 12:12	9.3	57	363	13.9	22
10/28/2013 12:13	9.6	56	355	14.7	18
10/28/2013 12:14	9.6	56	343	14.9	23

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 12:15	10	54	334	17.8	23
10/28/2013 12:16	10	53	328	16.3	16
10/28/2013 12:17	9.3	57	326	18.3	9
10/28/2013 12:18	9.4	57	321	18.8	20
10/28/2013 12:19	9.4	57	321	18	26
10/28/2013 12:20	9.9	54	320	14.5	8
10/28/2013 12:21	9	59	319	15.6	19
10/28/2013 12:22	9.1	59	316	18	12
10/28/2013 12:23	9.9	54	312	15.2	12
10/28/2013 12:24	10.1	53	316	15.8	16
10/28/2013 12:25	9.3	57	320	16.4	21
10/28/2013 12:26	9.1	59	321	14.7	19
10/28/2013 12:27	9.4	57	322	14.8	15
10/28/2013 12:28	10.1	53	323	13.6	14
10/28/2013 12:29	9.7	55	325	12.7	26
10/28/2013 12:30	9.5	57	328	15.3	24
10/28/2013 12:31	9.3	57	327	11	24
10/28/2013 12:32	9.9	54	323	10.2	29
10/28/2013 12:33	10.4	52	319	9.5	34
10/28/2013 12:34	11.1	48	313	14.2	30
10/28/2013 12:35	11.6	46	303	17.8	31
10/28/2013 12:36	11.2	48	292	12.1	26
10/28/2013 12:37	11.3	47	288	18.1	36
10/28/2013 12:38	12.4	43	292	14.9	26
10/28/2013 12:39	13.6	39	305	13	32
10/28/2013 12:40	13.1	40	323	17.3	31
10/28/2013 12:41	13	41	339	13.3	26
10/28/2013 12:42	12.3	43	352	12.7	30
10/28/2013 12:43	12.2	44	361	12.7	29
10/28/2013 12:44	11.3	47	365	14.8	27
10/28/2013 12:45	11	48	361	12.1	28
10/28/2013 12:46	10.9	49	357	16.6	30
10/28/2013 12:47	10.5	51	356	17.3	30
10/28/2013 12:48	11	49	354	17.7	25
10/28/2013 12:49	12.3	43	355	18.7	35
10/28/2013 12:50	11.2	47	357	18	26
10/28/2013 12:51	11.2	48	358	12.2	25
10/28/2013 12:52	11	48	362	10.9	24
10/28/2013 12:53	11	49	365	14.4	21

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 12:54	10.9	49	364	12.5	11
10/28/2013 12:55	10.9	49	365	9.7	16
10/28/2013 12:56	10.8	50	362	16.3	25
10/28/2013 12:57	10.6	50	357	15.7	23
10/28/2013 12:58	10	53	348	20	29
10/28/2013 12:59	9.8	54	335	15	26
10/28/2013 13:00	8.8	61	329	17.8	15
10/28/2013 13:01	9.4	57	338	21.3	17
10/28/2013 13:02	10	53	411	19.4	15
10/28/2013 13:03	8.5	63	562	12.1	19
10/28/2013 13:04	7.7	69	654	11.2	17
10/28/2013 13:05	8.1	65	680	19.3	13
10/28/2013 13:06	10.2	53	662	15.2	19
10/28/2013 13:07	10.1	53	628	18.6	21
10/28/2013 13:08	10.1	53	598	16.4	23
10/28/2013 13:09	9.7	55	574	10.6	24
10/28/2013 13:10	9.6	56	543	15.9	11
10/28/2013 13:11	9.4	57	505	18	9
10/28/2013 13:12	9.3	57	467	15	17
10/28/2013 13:13	9.1	58	437	13.8	22
10/28/2013 13:14	8.9	60	410	13.4	10
10/28/2013 13:15	8.5	63	383	15.5	29
10/28/2013 13:16	8.5	63	357	16.6	8
10/28/2013 13:17	8	66	336	16.3	9
10/28/2013 13:18	7.8	67	316	14.5	16
10/28/2013 13:19	7.8	68	296	17.3	13
10/28/2013 13:20	8.3	64	276	18.8	14
10/28/2013 13:21	8.6	62	259	22.6	17
10/28/2013 13:22	9.2	58	254	17.5	17
10/28/2013 13:23	9	59	260	14	18
10/28/2013 13:24	8.5	63	264	12.9	20
10/28/2013 13:25	8	66	268	13.1	15
10/28/2013 13:26	7.4	71	267	16.9	18
10/28/2013 13:27	7.1	74	257	13.2	18
10/28/2013 13:28	6.8	76	246	16.1	28
10/28/2013 13:29	6.7	77	235	12	17
10/28/2013 13:30	6.7	77	227	11.3	17
10/28/2013 13:31	7	74	220	16.5	14
10/28/2013 13:32	7.3	71	213	12.6	17

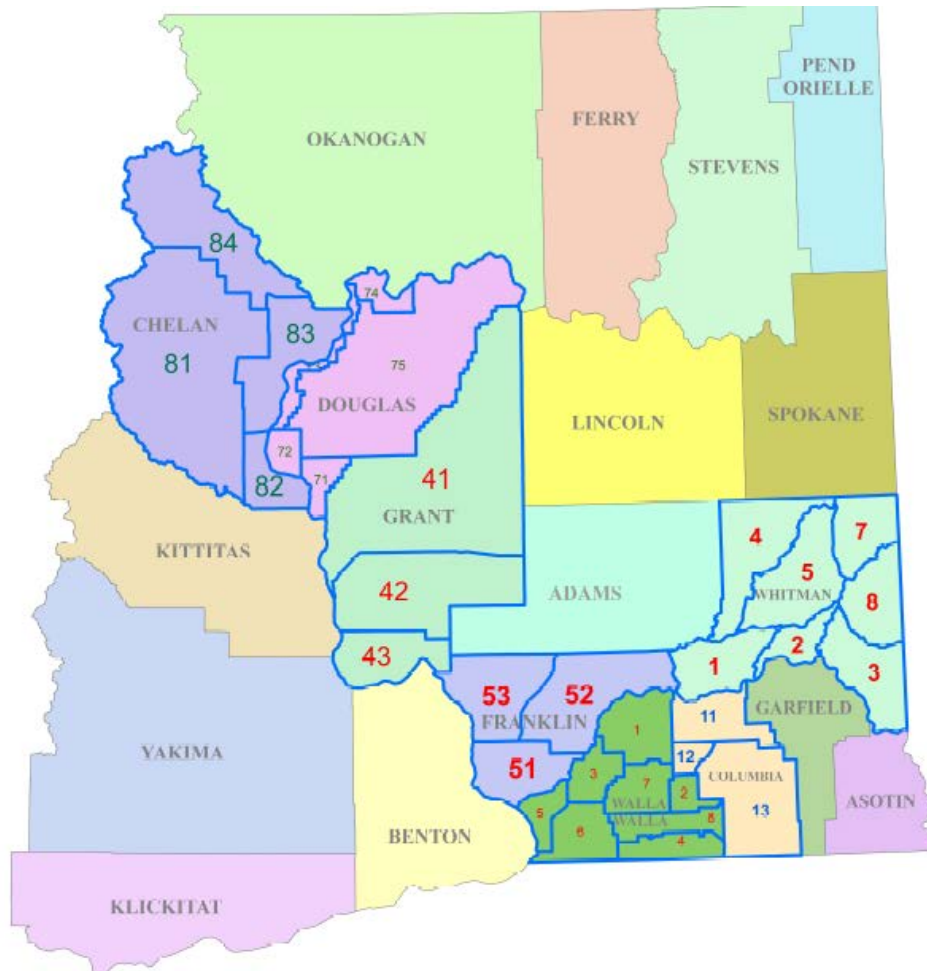
KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 13:33	7.1	73	208	10.9	21
10/28/2013 13:34	6.9	75	200	17.3	21
10/28/2013 13:35	7.8	68	191	18.1	15
10/28/2013 13:36	8.2	64	186	14.5	14
10/28/2013 13:37	7.9	67	186	16.6	15
10/28/2013 13:38	7.8	67	183	20.2	7
10/28/2013 13:39	8	66	181	17.8	7
10/28/2013 13:40	7.9	67	181	16.6	2
10/28/2013 13:41	7.7	68	189	12.1	12
10/28/2013 13:42	7.8	67	198	14.6	6
10/28/2013 13:43	8.2	65	201	15.9	4
10/28/2013 13:44	8.1	65	202	17.6	6
10/28/2013 13:45	8	66	200	14.6	10
10/28/2013 13:46	7.9	67	197	14	1
10/28/2013 13:47	8.2	65	192	15.7	11
10/28/2013 13:48	8.2	64	189	16.8	13
10/28/2013 13:49	8.3	64	187	13.9	13
10/28/2013 13:50	8.2	65	187	15.5	14
10/28/2013 13:51	7.8	68	186	17.2	10
10/28/2013 13:52	8.1	65	184	18.9	5
10/28/2013 13:53	8.2	64	183	13.9	6
10/28/2013 13:54	8.2	65	187	10.9	7
10/28/2013 13:55	8.3	64	194	14.8	16
10/28/2013 13:56	8.9	60	197	15.5	11
10/28/2013 13:57	8.8	61	195	17.9	21
10/28/2013 13:58	9.7	55	205	13.2	17
10/28/2013 13:59	9.1	59	213	13.8	7
10/28/2013 14:00	8.6	62	218	13.2	11
10/28/2013 14:01	8.2	65	222	12.4	5
10/28/2013 14:02	8.5	63	223	14.8	14
10/28/2013 14:03	8.7	61	225	12.9	5
10/28/2013 14:04	8.8	61	225	9.8	16
10/28/2013 14:05	8.4	63	224	14.8	18
10/28/2013 14:06	8.5	63	217	14.4	11
10/28/2013 14:07	8.5	62	210	14.9	15
10/28/2013 14:08	8.5	62	207	17	11
10/28/2013 14:09	8.1	65	201	15.4	14
10/28/2013 14:10	8	66	197	15.4	5
10/28/2013 14:11	8	66	194	16.5	7

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 14:12	8.1	66	193	15.3	9
10/28/2013 14:13	8.7	61	195	15.6	2
10/28/2013 14:14	8.4	63	195	15.9	7
10/28/2013 14:15	8.4	63	192	11.4	3
10/28/2013 14:16	8.4	63	195	11.3	11
10/28/2013 14:17	8.1	65	196	13.7	359
10/28/2013 14:18	8.7	61	193	11.9	10
10/28/2013 14:19	8.9	60	192	11.8	1
10/28/2013 14:20	9	59	190	12.9	7
10/28/2013 14:21	8.6	62	191	14.3	8
10/28/2013 14:22	8.8	60	188	16.1	357
10/28/2013 14:23	8.8	60	185	13.7	5
10/28/2013 14:24	8.7	61	185	15.9	10
10/28/2013 14:25	8.9	60	186	11.6	12
10/28/2013 14:26	8.3	64	189	10.7	4
10/28/2013 14:27	8.4	63	190	15	12
10/28/2013 14:28	8.3	64	188	15.6	11
10/28/2013 14:29	7.7	68	176	19.7	19
10/28/2013 14:30	7.1	73	164	12.9	15
10/28/2013 14:31	6.9	75	156	10.1	18
10/28/2013 14:32	6.6	78	148	14.6	21
10/28/2013 14:33	6.6	78	136	16.7	15
10/28/2013 14:34	6.5	79	123	18.3	18
10/28/2013 14:35	6.6	78	115	16.2	16
10/28/2013 14:36	6.3	81	103	14.3	17
10/28/2013 14:37	6.5	79	96	12.5	16
10/28/2013 14:38	5.8	86	95	14.4	7
10/28/2013 14:39	5.9	85	93	16.2	15
10/28/2013 14:40	6.1	83	89	14.6	19
10/28/2013 14:41	6	85	85	16.6	21
10/28/2013 14:42	6.1	83	81	16.1	19
10/28/2013 14:43	5.7	87	78	17.5	18
10/28/2013 14:44	5.9	85	77	13.6	20
10/28/2013 14:45	6	85	78	18.6	21
10/28/2013 14:46	5.8	86	78	18.1	21
10/28/2013 14:47	6	84	77	18.2	17
10/28/2013 14:48	6	83	78	17.4	15
10/28/2013 14:49	5.9	85	81	15.2	13
10/28/2013 14:50	5.6	88	84	16	16

KENMETA Date & Time PST	NPM25, ug/m ³	Visibility, Miles	TPM10, ug/m ³ (s)	Wind Spd S, MPH	Wind Spd S, Deg
10/28/2013 14:51	5.4	91	86	18.9	16
10/28/2013 14:52	5.3	92	86	16.1	17
10/28/2013 14:53	5.4	91	85	14.4	15
10/28/2013 14:54	5.2	93	82	15.8	12
10/28/2013 14:55	5.5	90	79	14.9	17
10/28/2013 14:56	5.4	91	74	17.9	22
10/28/2013 14:57	5.4	91	70	14.5	16
10/28/2013 14:58	5.5	90	69	12.5	18
10/28/2013 14:59	5.9	85	70	12.5	19

Ecology Burn Decision

Zone Map



Daily burn Decision – 10/28/2013

[Burn call for 10/28](#)

Decision For: Monday, October 28, 2013

Daily Notes: National Weather Service Wind Advisory in many counties. Where Burning is Allowed - Some Wet conditions. Burn Only Dry Material and do not burn if winds exceed 15mph for field burning or 20mph for pile burning.

Please Note:

If a recording is listed as CALL IN, growers need to contact Ecology in Spokane at 509-329-3400 Mon-Fri from 8-5 to get scheduled for a burn decision (NOTE: calling 329-3400 outside of M-F 8-5 will reach WA DEM who cannot help with burn call issues). Calling in the afternoon is preferred. It is very unlikely a grower will get permission the same day they first call Ecology. - plan ahead.

The daily burn decision for Ecology regulated Eastern Washington counties is determined by the regional office responsible for the county in question. If you have questions about the daily burn decision please call the correct office. If you wish to subscribe or unsubscribe from the listserv used to distribute the daily burn decisions see the links under "ERO listserv" and "CRO listserv" below.

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>

Zone map: http://www.ecy.wa.gov/programs/air/aginfo/research_pdf_files/ZoneMap.pdf

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: **Reduced winds and ventilation as the strong weather sstem leaves the area overnight. Expect limited Burning on Tuesday.**

Adams	NO BURN
notes:	
Asotin	NO BURN
notes:	
Columbia	Start at 10:00 AM Fires out by 3:00 PM winds NE am NE pm - Wet windy conditions. Burn Only Dry Material and do not burn if winds exceed 15mph for field notes: burning or 20mph for pile burning.
Zone 11:	
notes:	
Zone 12:	

notes:
Zone 13:
notes:

Franklin NO BURN

notes:
Zone 51:
notes:
Zone 52:
notes:
Zone 53:
notes:

Garfield Start at 10:00 AM Fires out by 3:00 PM winds NE am NE pm
 - Wet windy conditions. Burn Only Dry Material and do not burn if winds exceed 15mph for field
 notes: burning or 20mph for pile burning.

Grant ACRE / PILE LIMIT, see notes; Start at winds am pm
 notes: - Pile Burning Only Today. Start at 10:00AM Fires out by 3:00PM. Winds NE am and NE pm.

Zone 41:
notes:
Zone 42:
notes:
Zone 43:
notes:

Lincoln NO BURN

notes:

Stevens NO BURN

notes:

& P. Oreille NO BURN

notes:

Walla Walla NO BURN

notes:
Zone 01:
notes:
Zone02:
notes:
Zone 03:
notes:
Zone 04:
notes:
Zone 05:
notes:
Zone 06:
notes:
Zone 07:
notes:
Zone 08:
notes:

Whitman NO BURN

notes:

Zone 1: notes:
Zone 2: notes:
Zone 3: notes:
Zone 4: notes:
Zone 5: notes:
Zone 7: notes:
Zone 8: notes:

Not routinely called (does not have mailbox, ag burning in this area is almost exclusively on Indian lands)

Ferry NO BURN

notes:

Media Reports

Spokane Spokesman Review, October 28, 2013

Wind, frosty weather causing accidents, outages

<http://www.spokesman.com/stories/2013/oct/28/wind-frosty-weather-causing-accidents-outages/>

THE SPOKESMAN-REVIEW

October 28, 2013 in City

Wind, frosty weather causing accidents, outages

From staff and wire reports

Icy conditions and wind were causing numerous accidents and power failures around the Inland Northwest on Monday morning.

A multiple-vehicle accident on Interstate 90 near the state line blocked westbound lanes with authorities reporting icy conditions. That was reported clear around 7:20 a.m.

Trees and power lines also were reported down across Burnett Road, near Four Mound Road, in northwest Spokane County. Trees were reported down and blocking traffic on Murphy Road at Jensen Road, near Cheney, and on Short Road between Owens and Burroughs roads in northwest Spokane County, the Spokane Police Department said. Newport Highway north of Riverside is reportedly icy as well.

At 7 a.m., Avista Utilities [was reporting about 2,000 customers without power](#) in areas ranging from Spokane's South Hill (450 households) to Sandpoint (more than 1,400 without power).

The National Weather Service says gusty winds should persist through the day in Eastern Washington, bringing the possibility of blowing dust that could reduce visibility for drivers. Gusts were recorded of 39 mph at Othello, 46 mph at Spokane and 47 mph at Wenatchee.

Back in Idaho, seven people were injured when the Ford Excursion they were riding in slid on icy roads, flipped over and landed in a creek. The accident temporarily blocked the northbound lanes of U.S. Highway 95 at Cocolalla starting around 6 a.m., the Idaho State Police reported.

Sage G. Dixon, 44, was driving south on Highway 95 when he attempted to pass another vehicle and lost control. He was injured, along with six others: Veronica Dixon, 45; Aidan Dixon, 16, Abigail Dixon, 15, Andra Dixon, 13, Asher Dixon, 12 and Alanna Dixon, 12. All were wearing seat belts and none were taken to the hospital, a news release from the ISP said.

Forecasters say the winds today will be followed by mostly clear skies that will drop temperatures. Lows in Eastern Washington this week are forecast to be in the 20s.

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THE SPOKESMAN-REVIEW

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Washington State University, AgWeatherNet November 13, 2013

November 13, 2013

<http://news.wsu.edu/2013/11/13/pleasant-october-weather-blown-away-on-the-28th/>

Pleasant October weather blown away on the 28th

November 13, 2013

By Rachel Webber, College of Agricultural, Human & Natural Resource Sciences



PROSSER, Wash. – A familiar adage says that all good things must come to an end. Apparently, the weather is no exception.

October temperatures at Prosser were cooler than average, which ended an impressive streak of above normal temperatures during 14 of the preceding 15 months. Despite unsettled weather at the beginning and end, October was pleasant thanks to a long stretch of sunny and mild days in eastern Washington during the middle of the month. “October’s mean high temperatures were variable but generally near average,” said AgWeatherNet meteorologist Nic Loyd. “Meanwhile, low temperatures were notably below average due to the efficient radiational cooling conditions during the mid-month dry period.”

A Web based, publicly available system, AgWeatherNet provides access to near real-time weather data and value-added products from Washington State University’s statewide weather network, along with decision aids for agricultural producers and other users. See <http://weather.wsu.edu/awn.php>.

Frost to start

October picked up where September left off with cool and unsettled weather. The high temperature on Oct. 2 was only 46 degrees at Crane, which was the location’s coolest high since March 24. Meanwhile, the coast at Tokeland received nearly one inch of rainfall.

The morning of Oct. 4 was clear and cold as Pullman dropped to 26 degrees on Washington’s first notable frost morning of the autumn. Another storm passage on Oct. 7 brought, in particular, 0.77 inches of rain to Snohomish and sustained winds of 35 mph to St. John.

Sunny center but cloudy coast

By contrast, sunny and calm weather dominated the middle of the month as most areas east of the Cascades enjoyed pleasant days and clear, cool nights. Temperatures on the morning of Oct. 14 were as low as 24 degrees at Fairfield.

Unfortunately, western Washington was mired in low clouds for much of the time thanks to a strong temperature inversion. However, offshore flow and sunshine allowed temperatures in Long Beach to soar to 78 degrees on Oct. 21.

“Luckily, Washington’s weather during much of October was ideal for the harvest,” said AgWeatherNet director Gerrit Hoogenboom. “In fact, as a result of the good weather in 2013, wine grape growers are projecting a potentially record-breaking harvest this year.”

Windy and cold

The calm, dry weather finally yielded to more unsettled, wet weather on Oct. 27. The highest daily rain total for the state was 0.32 inches at Maryhill.

The nice weather that had dominated for much of October was quite literally blown away on Oct. 28 as the region experienced an unusual period of strong north-northeasterly winds. St. John’s daily average wind speed on Oct. 28 was an incredible 30 mph.

Very cold nights preceded passage of the Canadian cold front, with temperatures as cold as 19 degrees at Moxee and Pullman on Oct. 29. Later in the day, the high temperature reached only 43 degrees at Anatone. Oct. 30 was another cold morning as Pullman dropped to 17 degrees. The last time Pullman experienced such a low was Jan. 22.

However, conditions moderated for Halloween as part of Pasco reached a balmy 70 degrees. Overall, October was a somewhat cool, dry and uneventful month in Washington.

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