

2020 Fire Weather Annual Summary

SOUTH CENTRAL AND SOUTHEAST
WASHINGTON
CENTRAL AND NORTHEAST OREGON

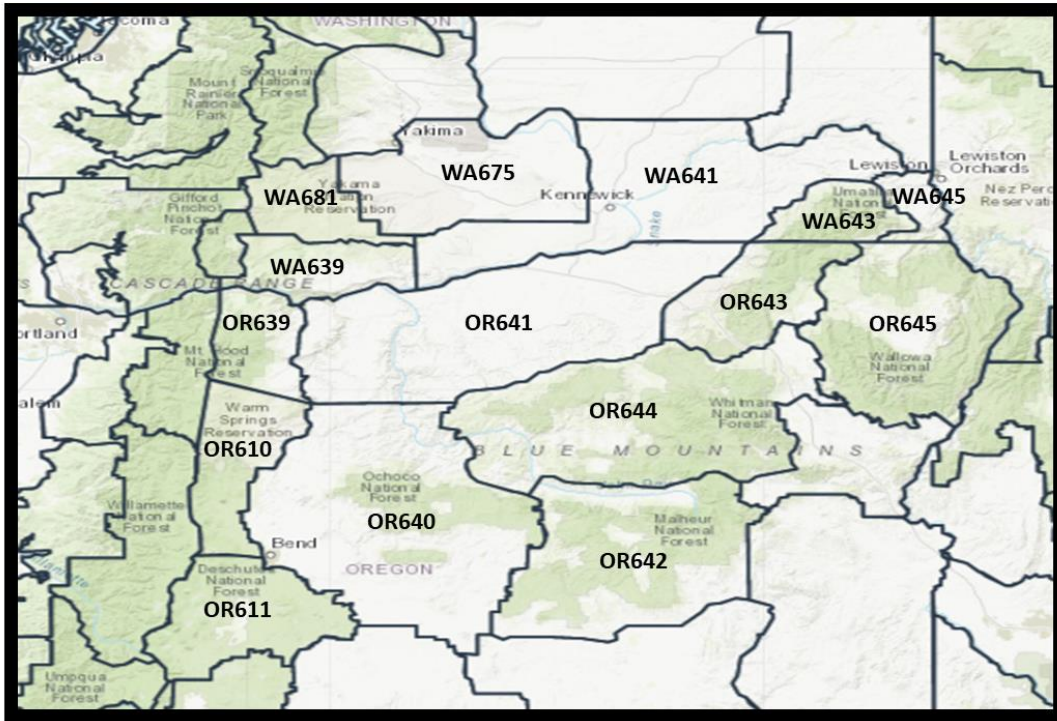
National Weather Service, Pendleton
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Fire Weather Zones



Note: Minor changes were made to fire zones WA675 and WA639 in 2020. The Kittitas County portion of WA675 was annexed with WA676 in NWS Spokane’s fire weather area. A small area of southeast Skamania County in NWS Portland’s zone WA660 was annexed with WA639.

Fire Activity Summary

The 2020 fire season in south central and southeast Washington and central and northeast Oregon was extremely active, especially when compared to the fire seasons in 2018 and 2019. Most of the large wildfires initiated from a thunderstorm outbreak on August 16, and a windstorm on September 7 was responsible for large wildfire spread and highly dangerous fires that spread in fine fuels throughout the Columbia Basin.

According to the Northwest Area Coordination Center, there were 1,638 fires in Washington and 2,211 fires in Oregon that have combined burned over two million acres of land. Approximately 75% of the number of fires in the inland Northwest were human caused compared to lightning. Numerous thunderstorms on August 16 were responsible for some of the most significant fires in eastern Washington and eastern Oregon--Lionshead, White River, Green Ridge, Frog, North Brownstown, and Taylor Pond. Lionshead was the second largest fire in the Pacific Northwest at 204,385 acres. Pearl Hill, east of Bridgeport, WA was the largest fire at 223,730 acres that burned predominantly through dry grass.

Labor Day, September 7, was a devastating day for this area. Northeast winds gusting to 45-55 mph caused downed trees and electrical wires, rapidly spreading fires, and blowing dust. At least several homes were lost in Basin City and Prosser and multiple structures were burned throughout the region. Three railroad bridges in Benton and Franklin Counties were also destroyed. The northeast winds continued for several days, and this caused the Lionshead Fire in the Warm Springs Reservation to spread over the Cascade crest and down the western slopes, eventually merging with the Beachie Creek Fire. Fires in Washington and Oregon claimed 14 lives in early September, although no fatalities were reported in NWS Pendleton's forecast area.

Poor air quality for over a week in early September was added to the mix as wildfire smoke blanketed the Pacific Northwest. Air Quality Advisories were issued throughout Washington and Oregon with monitors reporting conditions considered unhealthy or hazardous. Moderate to heavy rainfall that was observed from the coast to the Cascades with two separate systems during the second half of the month helped to suppress fires and alleviate the hazardous air quality.

2020 Wildfires in NWS Pendleton's Forecast Area

White River Fire
 Start: Aug. 16-17
 Contained: Sep. 28
 Cause: lightning
 Size: 17,383 acres

Mosier Creek Fire
 Start: Aug. 12
 Contained: Aug. 19
 Cause: human
 Size: 985 acres

North Brownstown
 Start: Aug. 17
 Contained: Aug. 23
 Cause: human
 Size: 5,981 acres

Evans Canyon Fire
 Start: Aug. 31
 Contained: Sep. 15
 Cause: unknown
 Size: 75,817 acres

Taylor Pond Fire
 Start: Aug. 16
 Contained: Aug. 20
 Cause: lightning
 Size: 34,792 acres

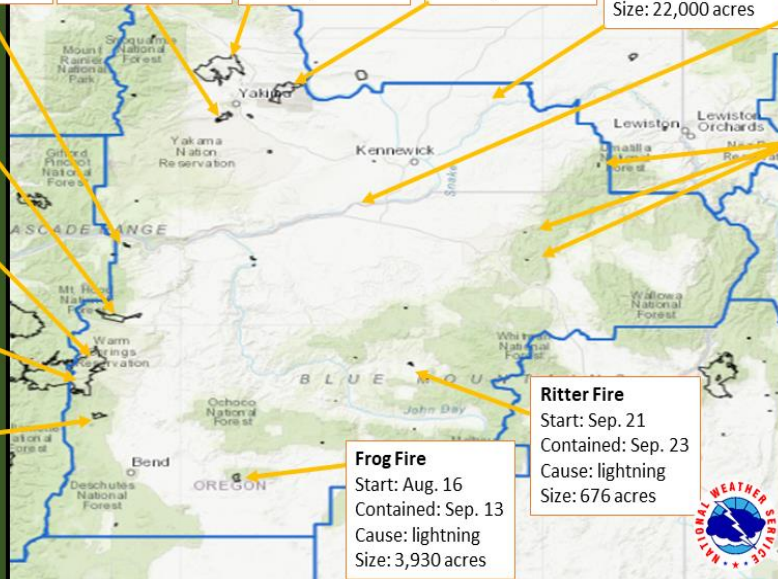
Kahlotus Fire*
 Start: Sep. 7
 Contained: Sep. 9
 Cause: human & wind driven
 Size: 22,000 acres

Paterson Fire*
 Start: Sep. 7
 Contained: Sep. 9
 Cause: human & wind driven
 Size: 1,000 acres

P515 Fire
 Start: Aug. 16
 Contained: Sep. 12
 Cause: lightning
 Size: 4,603 acres

Lionshead Fire
 Start: Aug. 16
 Contained: Oct 30 est.
 Cause: lightning
 Size: 204,385 acres

Green Ridge Fire
 Start: Aug. 16
 Contained: Sep. 1
 Cause: lightning
 Size: 4,338 acres



Meacham Complex including Hager Ridge, Horse and Rattlesnake
 Start: Aug. 19
 Contained: Aug. 31
 Cause: lightning
 Size: 268 acres

*** Why are there no fire perimeters for the Paterson and Kahlotus fires?**

Fire perimeters are often determined by infrared airborne flights at night. Both large fires were in grassy fuels and controlled quickly on September 7.

Ritter Fire
 Start: Sep. 21
 Contained: Sep. 23
 Cause: lightning
 Size: 676 acres

Frog Fire
 Start: Aug. 16
 Contained: Sep. 13
 Cause: lightning
 Size: 3,930 acres

Weather Review

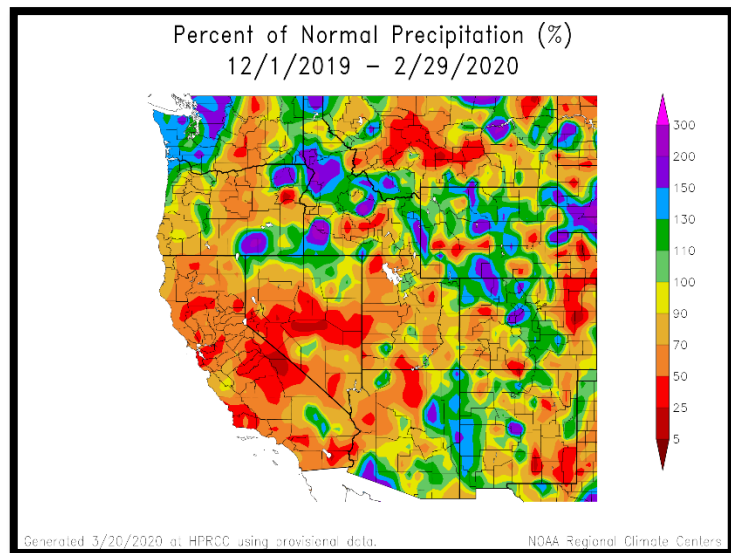
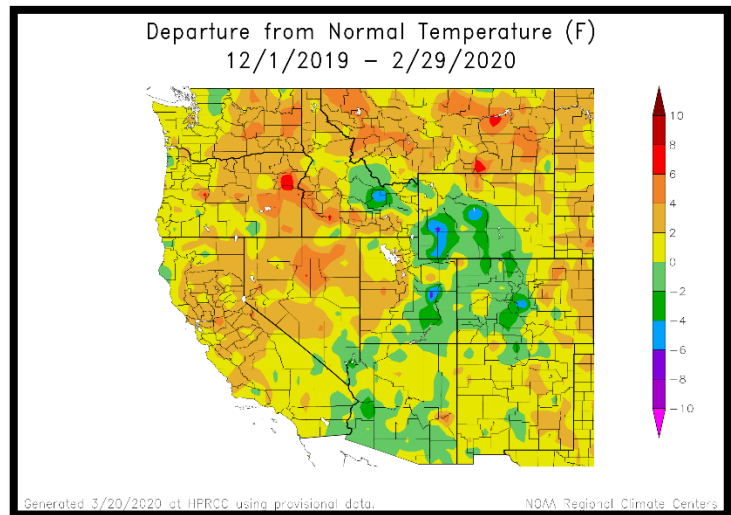
WINTER (DECEMBER 2019-FEBRUARY 2020)

Across NWS Pendleton's forecast area, it was warmer than average during the winter, but precipitation varied from mostly dry conditions in the Lower Columbia Basin down to central Oregon but above average in the northeast mountains and along the Washington Cascades.

December 2019 was warm and dry throughout the forecast area. A dry westerly flow dominated most of the month with periods of breezy to windy conditions. Precipitation was 20-70% of normal.

A westerly flow continued for most of **January 2020**, yet Pacific frontal systems provided orographic mountain showers unlike the drier westerly flow the previous month. Areas that are typically rain shadowed from the Cascades were left out of most precipitation. Mountain snowpack greatly improved in January.

February 2020 was most memorable for the widespread flooding that occurred on February 6-7. Heavy snow fell in the mountains at the start of the month. A moist westerly flow increased snow levels and resulted in warm rain on snow for fast snowmelt runoff. Most dry and warm conditions were observed the latter half of the month.



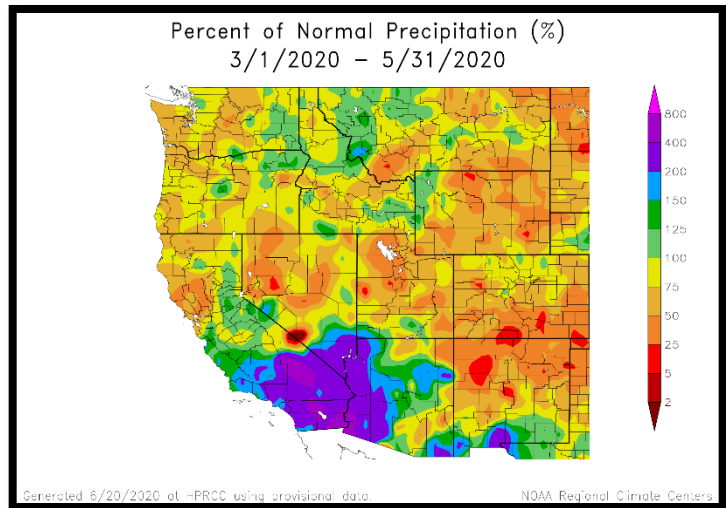
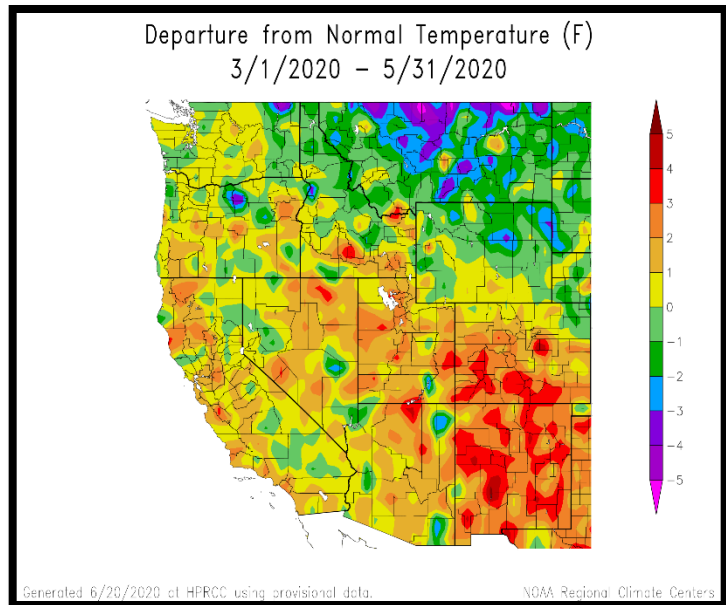
SPRING (MARCH-MAY 2020)

In general, both temperatures and precipitation averaged near seasonal during the spring.

March 2020 had several winter systems at the start of the month that brought snow, including at the lowest elevations of the Columbia Basin. They were not significant winter storms but cold enough for the month to fall below average on temperatures. Precipitation was near average.

Although April is typically one of the wettest months of the year, **April 2020** was a dry and warm month. There were a few thunderstorms during the month that brought heavy rain and gusty winds but not enough to improve the precipitation deficit. Precipitation was 20-70 percent of normal for most of the region, and the US Drought Monitor increased from “Moderate Drought” to “Severe Drought” along the Cascade Range.

Precipitation in **May 2020** varied from near to above normal precipitation. Heavy rain and flooding was observed in the northeast mountains and nearby valleys during the beginning of the month. A major thunderstorm outbreak on May 30 brought heavy rain to portions of the forecast area, mainly across central and north central Oregon.



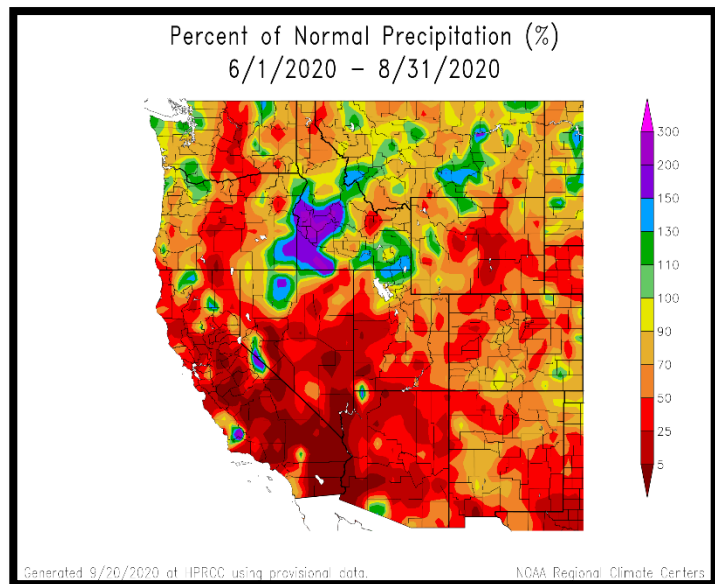
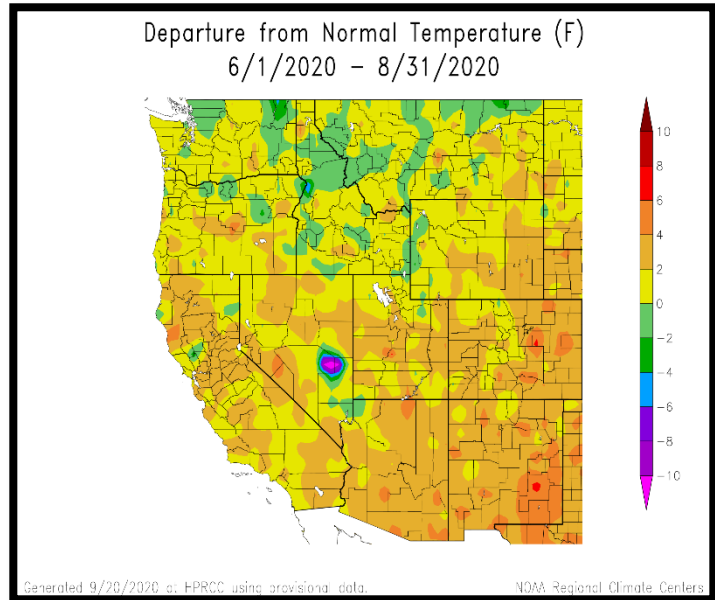
SUMMER (JUNE-AUGUST 2020)

The summer was hot and dry, especially in July and August.

June 2020 was a rather quiet month, weather wise with near normal temperatures and near to above normal precipitation. Wallowa County was unseasonably wet and averaged about 150-200% of normal for the month. No significant storm systems were noted.

July 2020 was hot and dry for eastern Washington and eastern Oregon which is nothing out of the ordinary. Temperatures were near normal and precipitation below normal. A heat wave brought several days of 100+ temperatures in many of the lower elevations. Some lower elevation grass fires started from a few thunderstorms.

August 2020 was incredibly dry with near to above average temperatures during the month. Thunderstorms on August 16-17 produced little to no rainfall, resulting in numerous fire starts. The east slopes of the Oregon Cascades were hit particularly hard with lightning. Severe wind gusts were also reported with many of the thunderstorms during the two-day period. Triple digit temperatures were also observed during the mid-month.



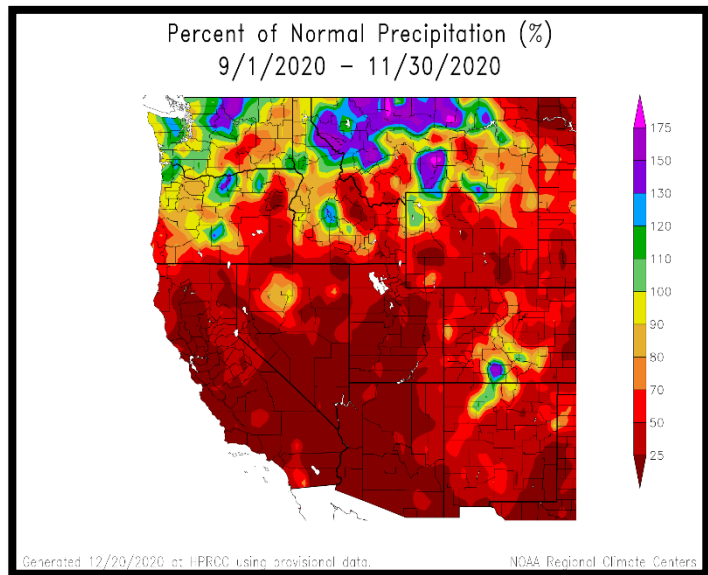
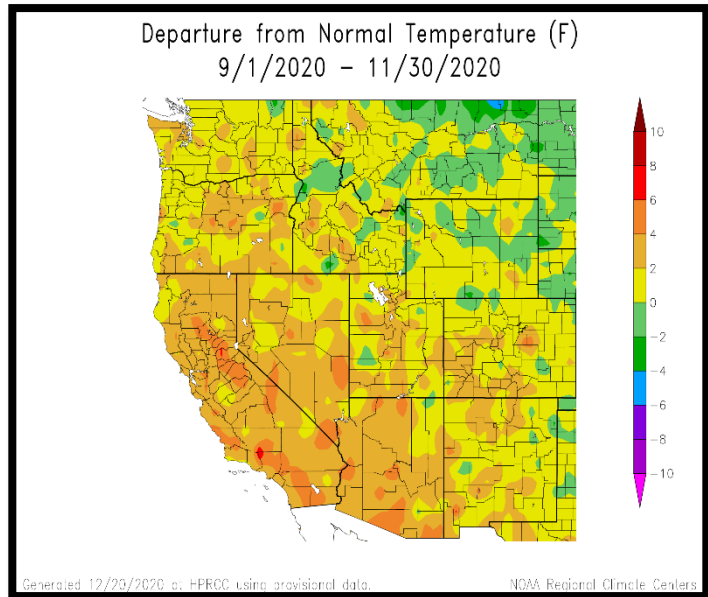
FALL (SEPTEMBER-NOVEMBER 2020)

The fall season began with an unprecedented wind storm on Labor Day but ended relatively quiet for October through November despite a few periods of heavy rain and mountain snow.

September 2020 will be known as one of the most active months for wildfires in Washington and Oregon, and the Labor Day wind storm is largely to blame. Winds gusting to 45-55 mph were common during this highly unusual cold front for September. Several days after the historical event, smoke from the west transported east of the Cascades and blanketed the region with thick smoke that continued for a week. Little precipitation was observed during the month, and drought conditions increased to D3 (extreme drought) along the Cascades.

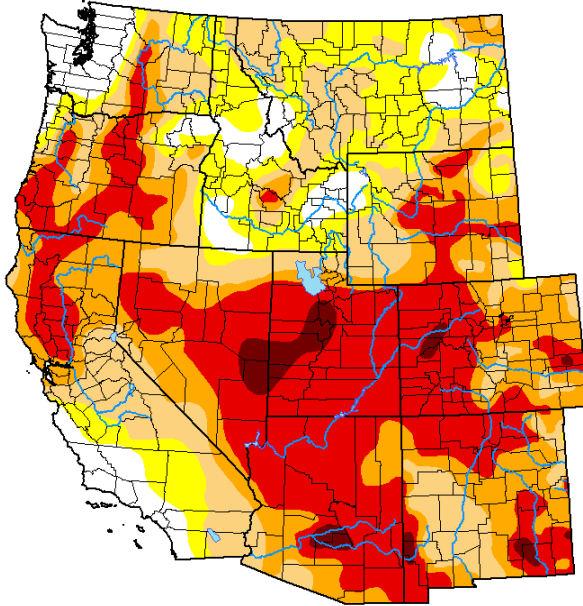
October 2020 began warm and dry but ended cooler than average with a few winter systems bringing snow to the mountains, albeit light. Record cold temperatures were observed at the end of the month.

A few frontal systems during **November 2020** brought rain and mountain snow, and the average precipitation for the month was near to above average for most areas. Record daily rainfall amounts were set for many of the lower elevations on November 5, and a heavy snow event occurred in the mountains on November 13-14.



United States Drought Monitor

September 29, 2020



Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Dry weather that persisted during the spring and summer 2020 pushed drought conditions to higher categories. Along the Cascade Range of Oregon and southern Washington, drought intensity reached to D3, or extreme drought, conditions.

Lightning Strikes June 1-Sept 30, 2020

Data provided by the Northwest Coordination Center Predictive Services, Portland

DATE_	Z_610	Z_611	Z_639	Z_640	Z_641	Z_642	Z_643	Z_644	Z_645	Z_675	Z_681
01-Jun-20	0	0	0	0	0	0	0	0	0	0	0
02-Jun-20	0	0	0	0	0	0	0	0	0	0	0
03-Jun-20	0	0	0	0	0	0	0	0	0	0	0
04-Jun-20	0	0	0	0	0	0	0	0	0	0	0
05-Jun-20	0	0	0	0	0	0	0	0	0	0	0
06-Jun-20	0	0	0	4	6	76	92	205	235	0	0
07-Jun-20	0	0	1	2	13	1	0	5	0	0	0
08-Jun-20	0	0	0	0	0	0	0	0	0	0	0
09-Jun-20	0	0	0	0	0	0	0	0	0	0	0
10-Jun-20	0	0	0	1	0	67	0	19	0	0	0
11-Jun-20	0	43	0	112	99	1	13	51	22	0	0
12-Jun-20	74	129	57	99	77	0	5	0	0	146	13
13-Jun-20	0	4	0	40	50	26	103	175	18	8	0
14-Jun-20	0	0	0	0	0	0	0	2	20	0	0
15-Jun-20	0	0	0	0	0	0	0	1	15	0	0
16-Jun-20	0	0	0	0	6	0	1	0	0	0	0
17-Jun-20	0	0	27	17	22	0	0	0	0	0	6
18-Jun-20	0	0	0	0	0	0	0	0	1	0	0
19-Jun-20	0	0	0	0	0	0	0	0	0	0	0
20-Jun-20	0	0	0	0	0	0	0	0	0	0	0
21-Jun-20	0	0	0	0	0	0	0	0	0	0	0
22-Jun-20	0	0	0	0	0	0	0	0	0	0	0
23-Jun-20	0	0	0	0	0	0	0	0	0	0	0
24-Jun-20	0	0	0	0	0	0	0	0	0	0	0
25-Jun-20	0	0	0	0	0	0	0	0	3	0	0
26-Jun-20	0	0	0	0	0	0	0	0	0	0	0
27-Jun-20	0	0	0	0	0	0	0	0	0	0	0
28-Jun-20	0	0	0	0	1	0	0	0	1	0	0
29-Jun-20	0	0	5	40	106	17	1	13	15	21	0
30-Jun-20	0	0	0	0	9	0	17	2	20	0	0
01-Jul-20	0	0	0	0	0	0	0	0	0	0	0
02-Jul-20	0	0	0	0	0	0	0	0	0	0	0
03-Jul-20	0	0	0	0	0	0	0	0	0	0	0
04-Jul-20	0	0	0	0	0	0	0	0	0	0	0
05-Jul-20	0	0	0	0	0	0	0	0	0	0	0
06-Jul-20	0	0	0	0	0	0	0	0	0	0	0
07-Jul-20	0	3	1	26	101	13	110	111	26	0	0
08-Jul-20	0	0	0	0	0	0	0	0	0	0	0

09-Jul-20	0	0	0	0	0	0	0	0	0	0	0
10-Jul-20	0	0	0	0	0	8	9	1	160	0	0
11-Jul-20	0	0	0	0	0	0	0	0	0	0	0
12-Jul-20	0	0	0	0	0	0	0	0	0	0	0
13-Jul-20	0	0	0	0	0	0	0	0	0	0	0
14-Jul-20	0	0	0	0	0	0	0	0	0	0	0
15-Jul-20	0	0	0	0	0	0	0	0	0	0	0
16-Jul-20	0	0	0	0	0	0	0	0	0	0	0
17-Jul-20	0	0	0	0	0	0	0	0	0	0	0
18-Jul-20	0	0	0	0	0	0	0	0	0	0	0
19-Jul-20	0	0	0	0	0	0	0	0	0	0	0
20-Jul-20	0	0	0	0	0	0	0	0	0	0	0
21-Jul-20	0	0	0	0	0	0	0	0	0	0	0
22-Jul-20	0	0	0	0	0	7	0	0	0	0	0
23-Jul-20	0	0	0	1	0	39	0	0	2	0	0
24-Jul-20	0	0	0	0	0	13	0	0	0	0	0
25-Jul-20	0	0	0	0	0	0	0	0	0	0	0
26-Jul-20	0	0	0	0	0	0	0	0	0	0	0
27-Jul-20	0	0	0	0	0	0	0	0	0	0	0
28-Jul-20	2	18	0	16	8	4	0	4	0	0	0
29-Jul-20	0	50	0	55	0	76	2	122	49	0	0
30-Jul-20	2	0	0	1	10	19	4	202	22	0	0
31-Jul-20	0	0	0	0	0	0	0	0	0	0	0
01-Aug-20	0	0	0	0	0	0	0	0	0	0	0
02-Aug-20	0	0	0	0	0	0	0	0	0	0	0
03-Aug-20	0	0	0	0	0	0	0	0	0	0	0
04-Aug-20	0	0	0	0	0	0	0	0	0	0	0
05-Aug-20	0	0	0	0	0	0	0	0	0	0	0
06-Aug-20	122	368	3	38	20	116	42	336	81	22	13
07-Aug-20	0	0	0	0	0	0	0	0	3	0	0
08-Aug-20	0	0	0	0	0	0	0	0	0	0	0
09-Aug-20	0	0	0	0	0	0	0	0	0	0	0
10-Aug-20	0	0	0	0	0	0	0	0	0	0	0
11-Aug-20	0	0	0	0	0	0	0	0	0	0	0
12-Aug-20	0	0	0	0	0	0	0	0	0	0	0
13-Aug-20	0	0	0	0	0	0	0	0	0	0	0
14-Aug-20	0	0	0	0	0	0	0	0	0	0	0
15-Aug-20	0	0	0	0	0	0	0	0	0	0	0
16-Aug-20	0	0	0	0	0	0	0	0	0	0	0
17-Aug-20	51	80	8	80	15	1	0	29	0	3	0
18-Aug-20	62	0	2	138	513	132	0	56	96	11	0
19-Aug-20	0	0	0	73	85	126	364	258	389	0	0

20-Aug-20	0	0	0	0	1	0	16	0	7	0	0
21-Aug-20	0	0	0	0	0	0	0	0	0	0	0
22-Aug-20	0	0	0	0	0	0	0	0	0	0	0
23-Aug-20	0	0	0	0	0	0	0	0	0	0	0
24-Aug-20	0	0	0	0	0	0	0	0	0	0	0
25-Aug-20	0	0	0	13	0	32	0	0	0	0	0
26-Aug-20	0	0	0	3	0	12	0	72	44	0	0
27-Aug-20	0	0	0	0	0	15	0	0	7	0	0
28-Aug-20	0	0	0	0	0	0	0	0	0	0	0
29-Aug-20	0	0	0	0	0	0	0	0	0	0	0
30-Aug-20	0	0	0	0	0	0	0	0	0	0	0
31-Aug-20	0	0	0	0	0	0	0	0	0	0	0
01-Sep-20	0	0	0	0	0	0	0	0	0	0	0
02-Sep-20	0	0	0	0	0	0	0	0	0	0	0
03-Sep-20	0	0	0	0	0	0	0	0	0	0	0
04-Sep-20	0	0	0	0	0	0	0	0	0	0	0
05-Sep-20	0	0	0	0	0	0	0	0	0	0	0
06-Sep-20	0	0	0	0	0	0	0	0	0	0	0
07-Sep-20	0	0	0	0	0	0	0	0	0	0	0
08-Sep-20	0	0	0	0	0	0	0	0	0	0	0
09-Sep-20	0	0	0	0	0	0	0	0	0	0	0
10-Sep-20	0	0	0	0	0	0	0	0	0	0	0
11-Sep-20	0	0	0	0	0	0	0	0	0	0	0
12-Sep-20	0	0	0	0	0	0	0	0	0	0	0
13-Sep-20	0	0	0	0	0	0	0	0	0	0	0
14-Sep-20	0	0	0	0	0	0	0	0	0	0	0
15-Sep-20	0	0	0	0	0	0	0	0	0	0	0
16-Sep-20	0	0	0	0	0	0	0	0	0	0	0
17-Sep-20	0	0	0	0	0	0	0	0	0	0	0
18-Sep-20	0	0	0	0	0	0	0	0	0	0	0
19-Sep-20	20	20	28	40	27	28	0	71	47	0	6
20-Sep-20	0	0	0	0	0	0	0	0	2	0	0
21-Sep-20	0	0	0	0	0	0	0	0	0	0	0
22-Sep-20	0	0	0	0	0	0	0	0	0	0	0
23-Sep-20	0	0	0	0	0	0	0	0	0	0	0
24-Sep-20	0	0	0	0	0	0	0	0	0	0	0
25-Sep-20	0	0	0	0	0	0	0	0	0	0	0
26-Sep-20	0	0	0	0	0	0	21	0	3	0	0
27-Sep-20	0	0	0	0	0	0	0	0	0	0	0
28-Sep-20	0	0	0	0	0	0	0	0	0	0	0
29-Sep-20	0	0	0	0	0	0	0	0	0	0	0
30-Sep-20	0	0	0	0	0	0	0	0	0	0	0

Red Flag Warning Events and Verification

Date	Zones	Reason	Verification	Lead Time
June 26	OR641	Wind/Low RH	Missed Event	.
June 27	WA641, WA675, OR641 <i>All zones preceded by a watch</i>	Wind/Low RH	Yes—WA641 and OR641 No—WA675	5.52 hrs.
July 11	WA641, WA675, OR641 <i>All zones preceded by a watch</i>	Wind/Low RH	Yes--All	25.17 hrs.
July 16	OR641	Wind/Low RH	Missed Event	
July 27-28	OR611, OR640, OR642, OR644, OR645 <i>All zones except OR645 preceded by a watch</i>	Abundant Lightning	Yes--All	25.91 hrs.
July 30-31	WA643, OR643, OR644, OR645 <i>All zones preceded by a watch</i>	Abundant Lightning	No--All	
July 31	OR644 (ext)	Abundant Lightning	No	
July 31	WA639, WA641, WA675, OR639, OR641	Wind/Low RH	Yes—WA641, WA675, and OR641 No—WA639 and OR639	8.12 hrs.
August 1	OR641	Wind/Low RH	No	
August 5-6	OR610, OR611, OR642, OR643, OR644, OR645	Abundant Lightning	Missed Event	

August 11	WA639, WA641, WA675, OR610, OR639, OR640, OR641 <i>All zones except OR610 preceded by a watch</i>	Wind/Low RH	Missed Event— OR610 Yes—All other zones	20.68 hrs.
August 16	*OR610, OR611, *OR639, OR640, OR641 *OR642, OR643, OR644, OR645 <i>*Zones preceded by a watch</i>	Abundant Lightning	Yes—OR610, OR611, OR639, OR640, OR642, OR644 No—OR641, OR643, and OR645	25.48 hrs.
August 17	OR641, OR642 (ext), OR644 (ext), WA643, WA645	Abundant Lightning	Yes—OR642 and OR644 Missed Event—OR641, WA643, WA645	18.10 hrs.
August 24	WA643, WA645, OR611, OR640, OR642, OR643, OR644, OR645 <i>All zones preceded by a watch</i>	Abundant Lightning	Yes—OR642 and OR645 No—WA643, WA645, OR611, OR640, OR643, OR644, OR645	32.90 hrs.
August 29	WA639, WA641, WA675, WA681, OR610, OR639, OR640, OR641 <i>All zones preceded by a watch</i>	Wind/Low RH	Yes—WA641, WA675, OR610, OR640, OR641 No—WA639, WA681, OR639	32.13 hrs.
Sept. 7-8	WA639, WA641, WA675, WA681, OR610, OR611, OR639, OR640, OR641, OR642	Wind/Low RH	No—WA681 and OR611 Yes—All other zones	38.77 hrs.
				Average: 21.61 hrs.

2020 RED FLAG WARNING TOTALS

TOTAL # OF WARNINGS	65	POD	0.78
TOTAL # OF EVENTS	54	FAR	0.35
VERIFIED WARNINGS	42	CSI	0.55
MISSED WARNINGS	12	ALT (Min)	1296.87
UNVERIFIED WARNINGS	23	ALT (Hrs)	21.61
WATCHES ISSUED	70	Total Min	70031
VERIFIED WATCHES	34		
WARNINGS PRECEDED BY WATCHES	53		

2020 RED FLAG WARNING SYNOPTIC TOTALS

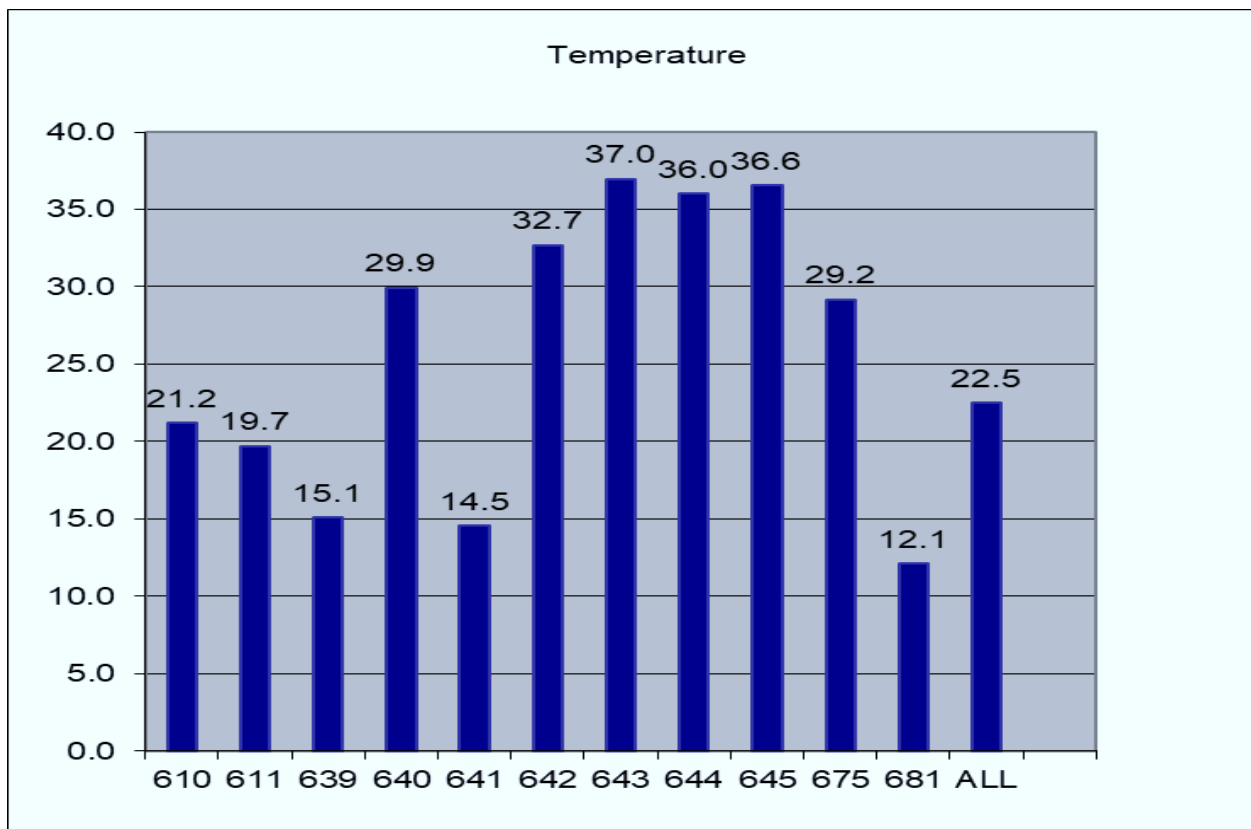
TOTAL # OF WARNINGS	36	POD	0.90
TOTAL # OF EVENTS	30	FAR	0.25
VERIFIED WARNINGS	27	CSI	0.69
MISSED WARNINGS	3	ALT (Min)	1464.07
UNVERIFIED WARNINGS	9	ALT (Hrs)	24.40
WATCHES ISSUED	36	Total Min	43922
WARNINGS PRECEDED BY WATCHES	30		

2020 RED FLAG WARNING DRY T-STORM TOTALS

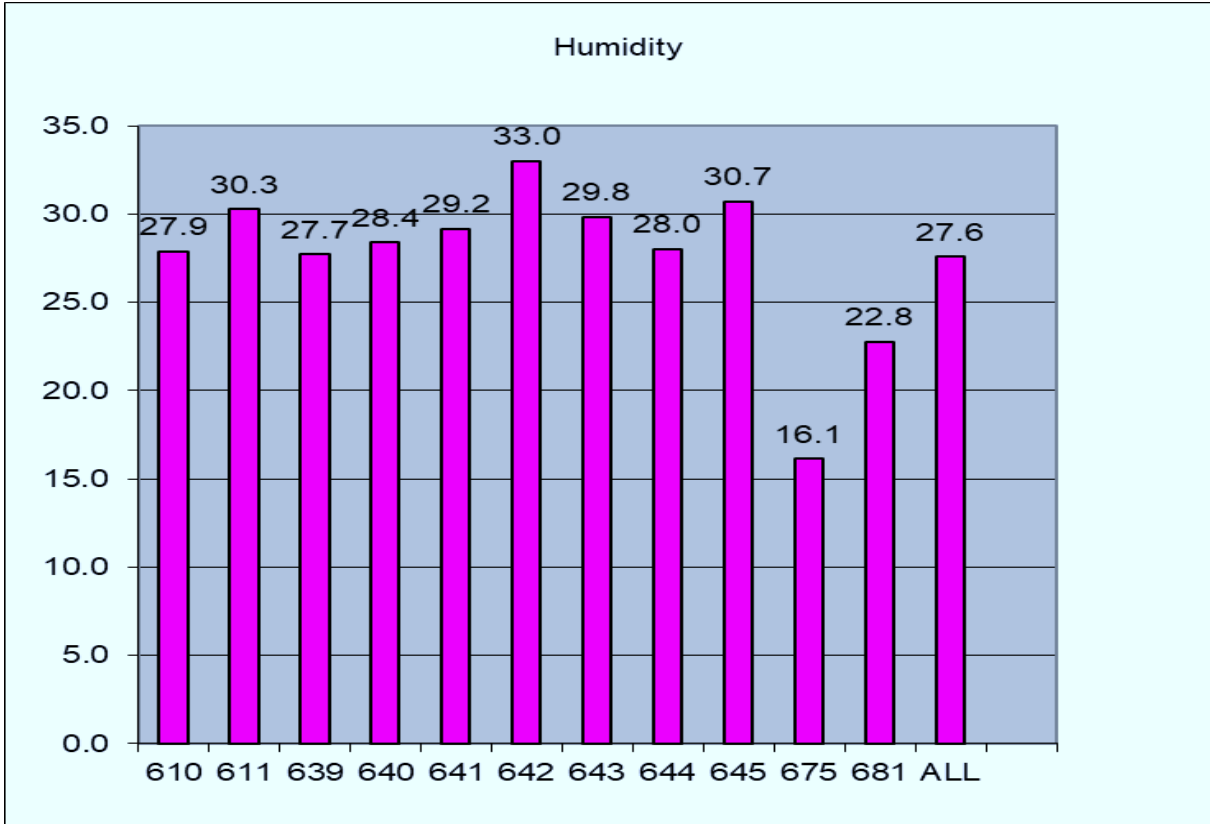
TOTAL # OF WARNINGS	29	POD	0.63
TOTAL # OF EVENTS	24	FAR	0.48
VERIFIED WARNINGS	15	CSI	0.39
MISSED WARNINGS	9	ALT (Min)	1087.88
UNVERIFIED WARNINGS	14	ALT (Hrs)	18.13
WATCHES ISSUED	34	Total Min	26109
WARNINGS PRECEDED BY WATCHES	23		

National Fire Danger Rating System (NFRDS) Verification

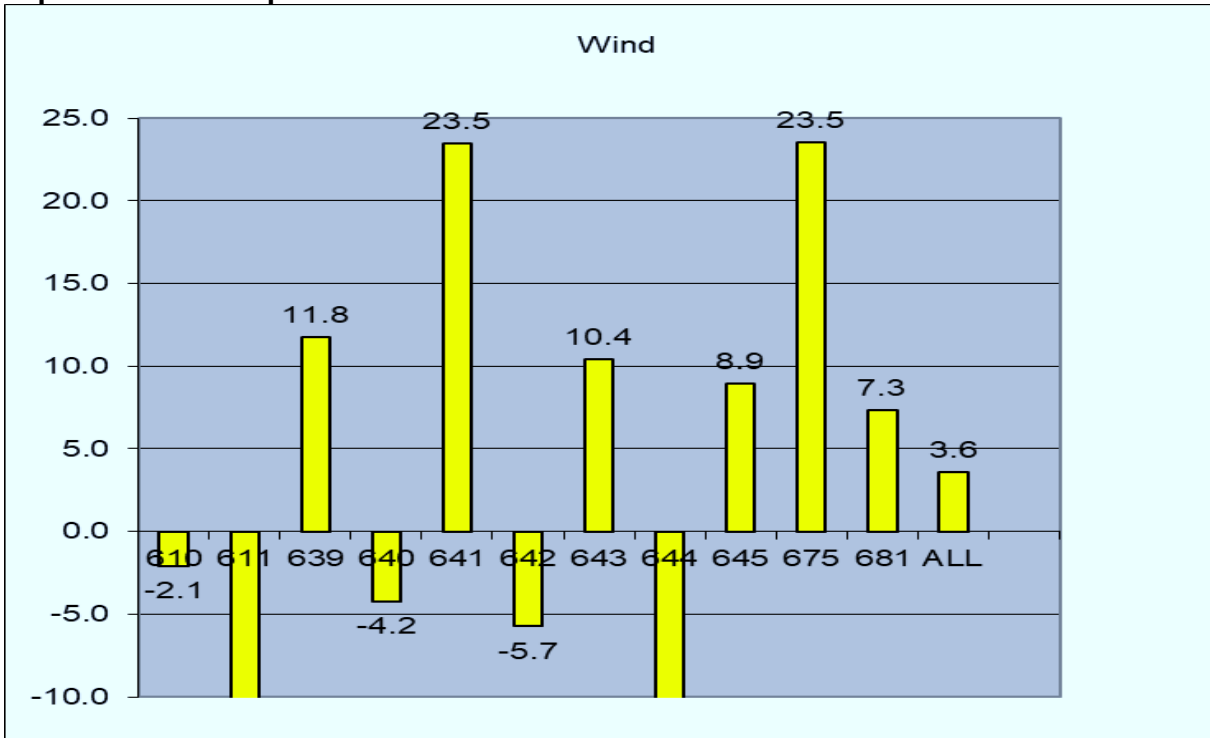
National Weather Service Offices provide input into the National Fire Danger Rating System via next day forecasts covering a variety of weather and weather related elements. Forecast comparisons against actual observations taken the following day at 1300 PST (1400 PDT) determine the amount of error with 1 point counted for each degree or mph of difference. The following charts show NWS Pendleton forecast percentage improvement over a persistence forecast for temperature, relative humidity, and wind speed averaged across each zone followed by the average of all stations in the final column. The June 1 through September 30 time frame is covered.



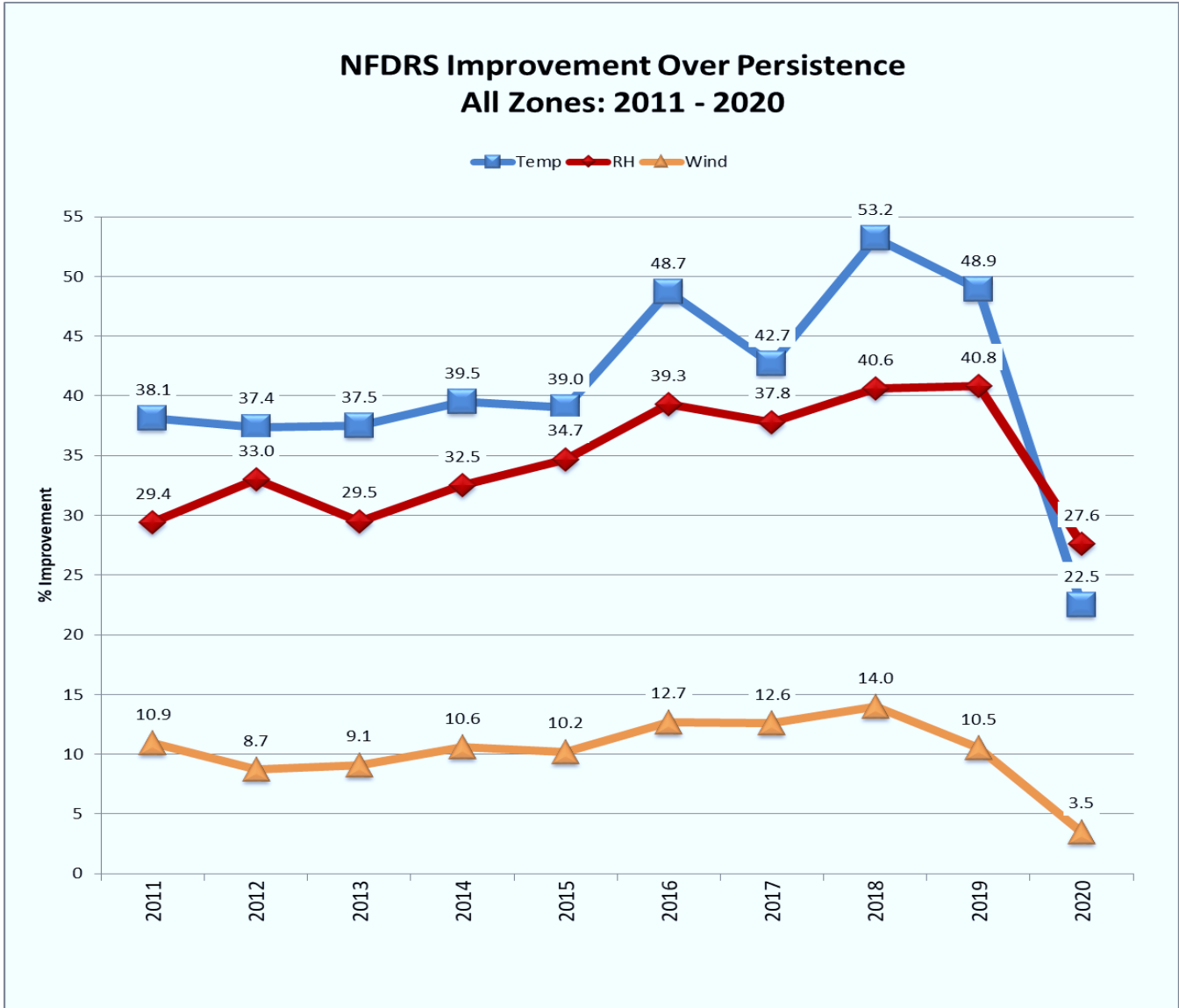
Temperature verification (above) for the entire Pendleton forecast area in 2020 was 22.5% improvement over persistence—lower than the 48.9% in 2019.



Relative humidity verification (above) for the entire Pendleton forecast area in 2020 was 27.6% improvement over persistence—lower than the 40.8% in 2019.

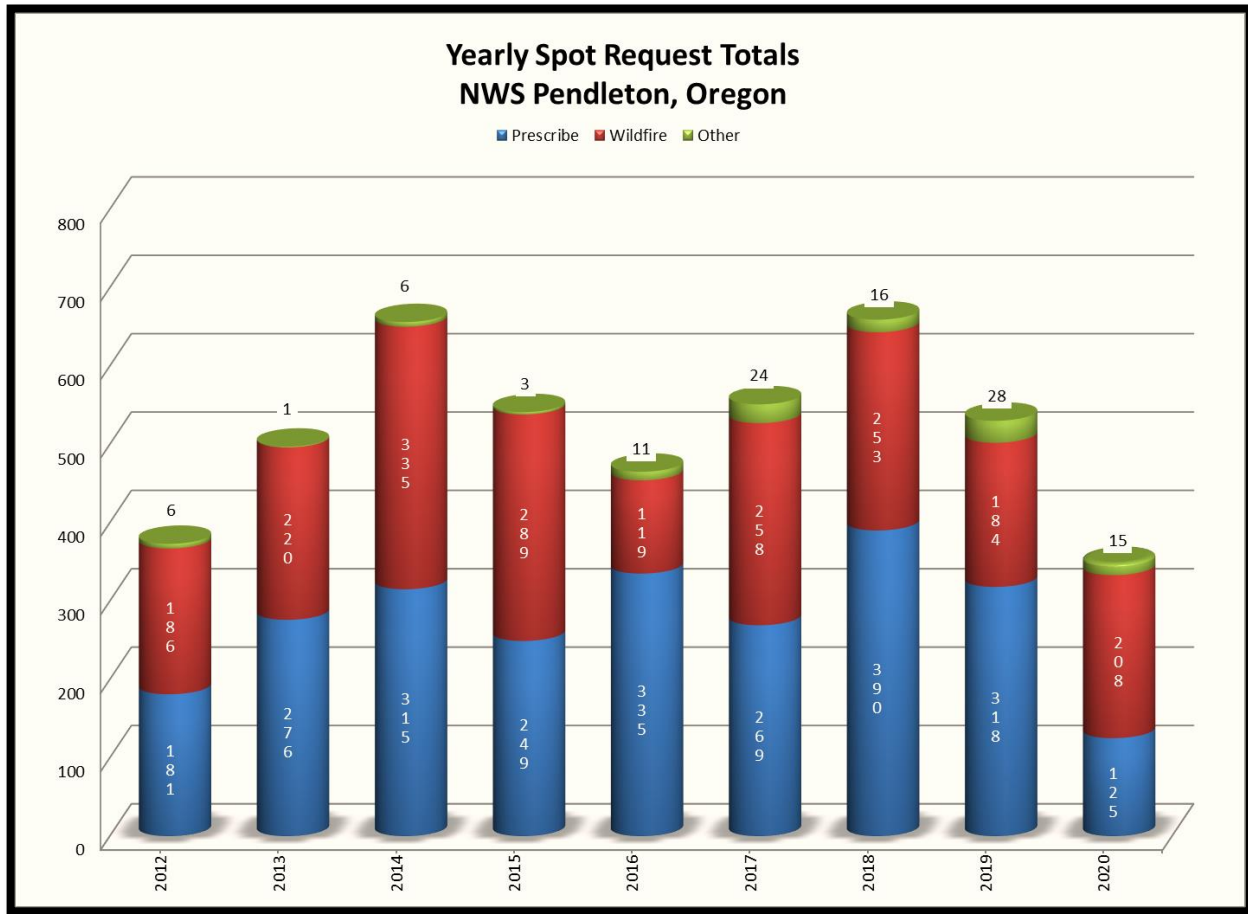


Wind speed verification (above) for the entire Pendleton forecast area in 2020 was 3.6% improvement over persistence—lower than the 10.5% in 2019.



10-year trend graph (above) showing forecast improvement over persistence for NFDRS forecasts. There was a significant decline in verification for all three elements—temperature, humidity, and wind—in 2020. The purpose for verifying is to find strengths and weaknesses in an office’s forecasting skills, and further investigation will be taken to determine the reason for this decline.

Spot Forecasts



The chart above shows the 10-year trend of spot forecasts issued by the Pendleton office. The total number of spot forecasts (348) issued by the Pendleton weather office this year was the lowest number in ten years. However, the number of spot forecasts for wildfires was greater than 2019. Spot forecasts for prescribed burns were exceptionally low in 2020, likely due to the mitigations taken to prevent the spread of COVID-19. The “other” spot forecasts include HAZMAT, Search-and-Rescue, and event-driven spots.

IMET Dispatches

Incident Meteorologists (IMET) provide on-site support for a variety of incidents where weather forecast and monitoring information are essential to emergency responder safety. The IMET dispatches from NWS Pendleton this year were 37 days on incident. Assignments are listed below.

IMETS WITHIN WFO PENDLETON'S FORECAST AREA IN 2020

Dates	IMET(WFO)	Incident	Nearest Location
Aug 14-19	Wister (PDT)	Mosier Creek	Mosier, OR
Aug 19-Sept 1	Bonk (PQR)	Green Ridge	Sisters, OR
Aug 20-29	Wister (PDT)	Indian Creek	Vale, OR
Aug 22-28	Fox (OTX)	Frog Fire	Sisters, OR
Aug 22-Sep 1	Bower (SEW)	Meacham Complex	20E of Mission
Aug 26-Sep 5	Messick (PIH)	P515 and Lionshead	Warm Springs, OR
Aug 28-Sep 8	Nester (MSO)	White River	Tygh Valley, OR
Sep 4-26	Wister (PDT)	Lionshead	Warm Springs, OR
Sep 8-10	Nester (MSO)*	*Bob Nester's team relocated from White River to Lionshead	
Sep 26-Oct 7	Gilchrist (GGW)		
Oct 7-15	Redman (BOI)		

Note: The P515 fire and Lionshead was under one IMT beginning September 6. The Type 1 team at White River relocated to Lionshead on September 8. The team took on the responsibility of White River, P515, and Lionshead until White River was given back to the local team on September 13.

Training and Outreach Activities

Training and outreach continues to be an important part of the fire weather program at NWS Pendleton. The following table lists training and activities for 2020. Outreach activities were limited or held via video conferencing due to mitigation efforts to reduce the spread of COVID-19

Date(s)	Forecaster(s)	Activity	Location
January 13	Wister	S-390	Bend, OR
January 29	Wister	CTUIR Smoke Management	Pendleton, OR
March 11	Wister	Virtual IMET CEE workshop	via teleconference
April 9	Wister	Northern Blue Mtns cooperators meeting	via teleconference
May 5	Wister	Refresher training for Grande Ronde Rappel crew	via teleconference
May 6	Wister	Refresher training for Malheur Rappel crew	via teleconference