

NWS Wilmington, Ohio November 2019 Regional Climate Summary

Regional Climate Summary

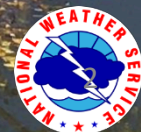
Even though October felt more like August, November featured a prolonged “winter-like” chill, especially for the beginning and middle of the month. In fact, much of the region received the first widespread accumulating snow of the season late in the evening on the 11th into the 12th, with snow totals ranging from an inch to as much as 4 inches across portions of west-central Ohio. And while some spots still ended drier-than-normal, the month ended on a bit of a wet note, with numerous days of showers within the final week of November.

Temperatures

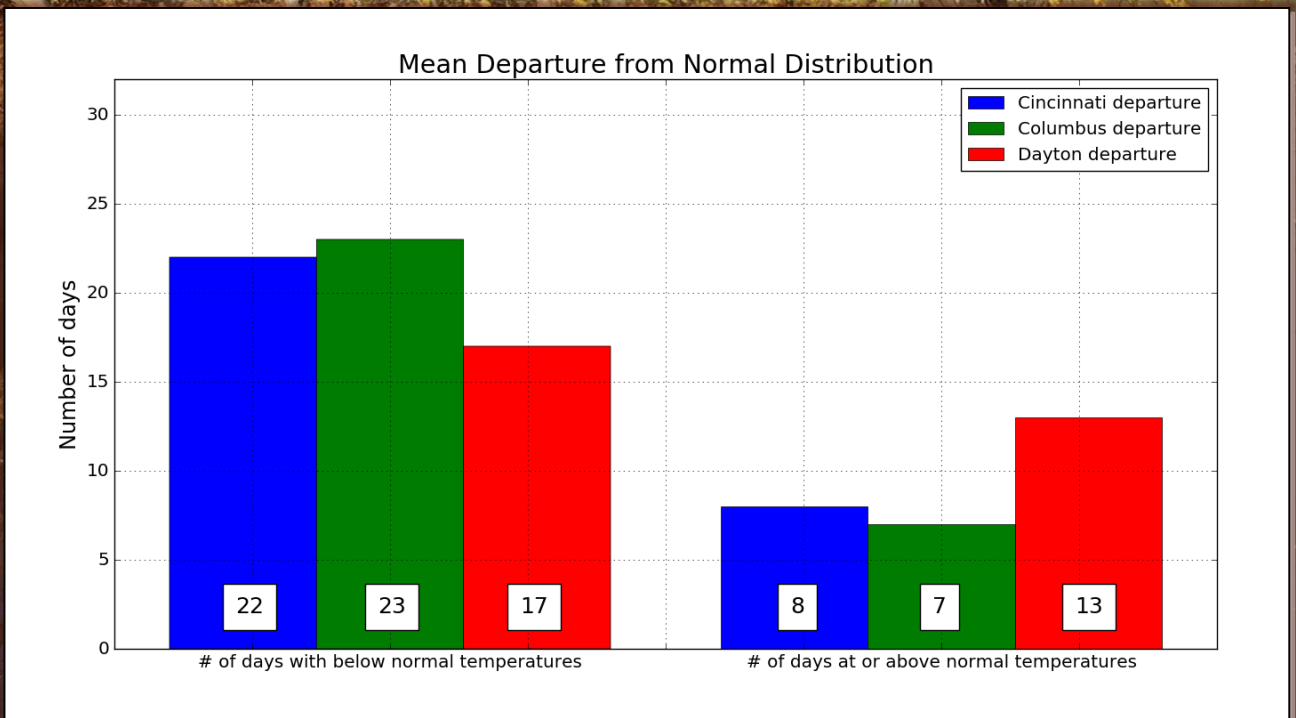
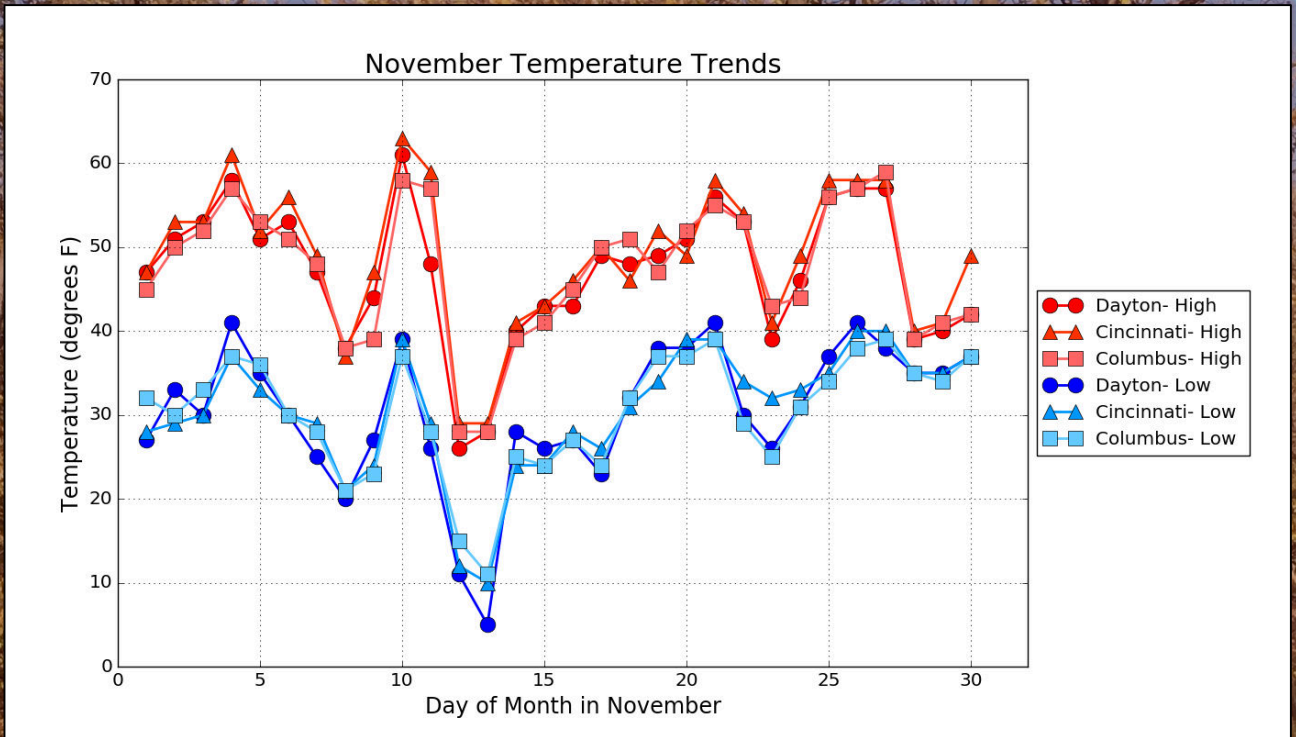
Unlike October, in which temperatures started out well above normal, November started out with temperatures well below normal. Many locations stayed below normal through the first week of the month, with daily average temperatures generally ranging between 5 and 15 degrees below daily normal. And in fact, the cold start only amplified on the 11th into the 12th as a very strong cold front progressed through the region, bringing an arctic blast and the first widespread accumulating snow of the season to much of the local area. Numerous daily cold records were set, including record low maximums and minimums on the 12th and record low minimums on the 13th. Daily average temperatures from the 12th into the 13th were generally 20-30 degrees below seasonal norms, which was aided, in part, by several inches of snowpack for many locations.

Past the 13th, slightly warmer air built into the region – although the overall temperature traces still generally remained below normal through the middle of the month. Past the middle of the month temperatures meandered slightly above and slightly below normal, without too much in the way of large temperature swings through the final part of November. Highs were generally in the 40s and 50s and lows were in the 30s and 40s for the final 7-10 days of the month. And with the fairly seasonable end to the month, the cooler temperatures at the beginning yielded monthly average temperatures that were below normal.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	39.8°F	48.9°F	30.6°F	- 5.3°F	63°F (11/10)	10°F (11/13)
Columbus (CMH)	38.8°F	47.3°F	30.3°F	- 5.6°F	59°F (11/27)	11°F (11/13)
Dayton (DAY)	38.8°F	47.1°F	30.4°F	- 4.0°F	61°F (11/10)	5°F (11/13)



Temperatures (Continued)



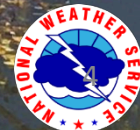
Precipitation

A system was just exiting the region at the start of the month and therefore generally dry conditions were in place for the first several whole days of the month. Light rain shower activity moved across primarily northern portions of the region near and north of I-70 on the 2nd. Dry conditions returned briefly before widespread rain moved in for the morning of the 5th. Another system began to move into the region on the 6th and continued in the 7th. Cooler air moving into the region on the 7th transitioned precipitation over to a mix and then snow showers before tapering off. Some very light accumulations of snow occurred with this system.

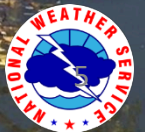
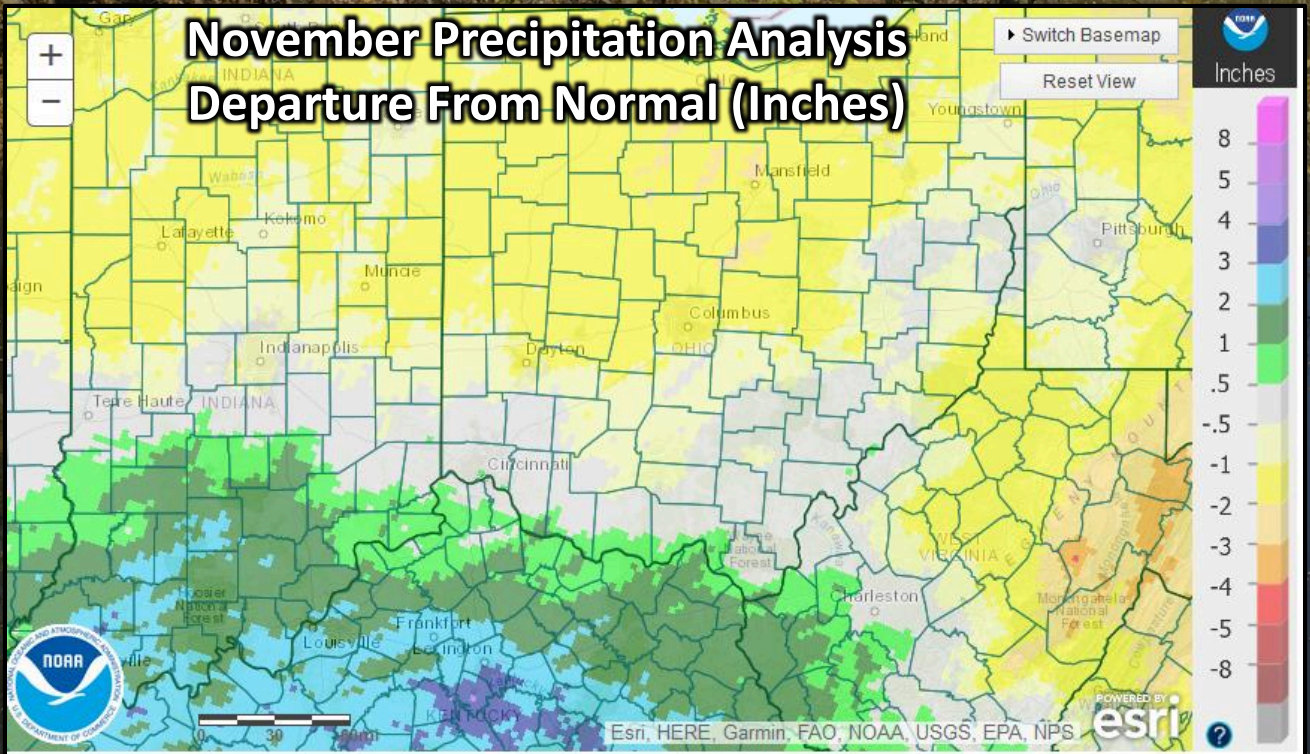
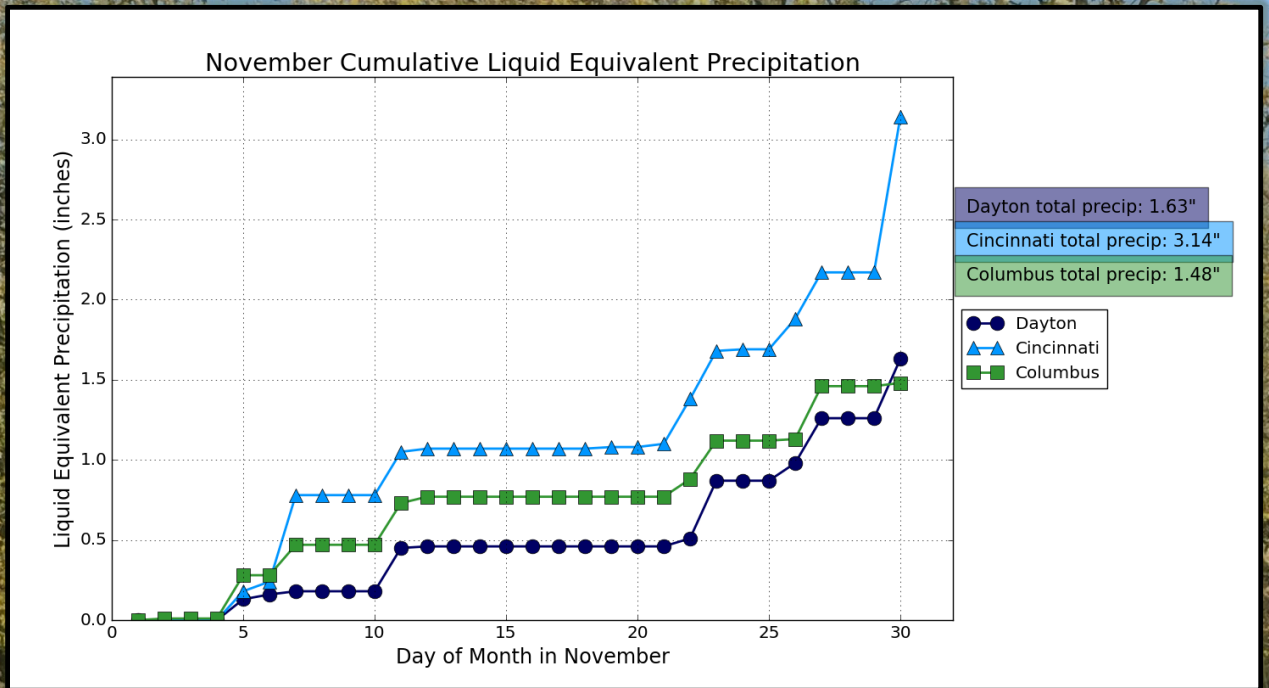
However, a more widespread early-season snow event evolved late in the evening on Veterans Day into the 12th when a strong cold front brought much colder air rushing into the region. Light rain changed to a 6-8 hour period of light snow for much of the local area – with many spots picking up several inches of accumulation. And although very unseasonably cold air spilled into the region, the snow ultimately only lasted several days as temperatures warmed slightly past the middle of the month.

Rain moved across the region on the 22nd and 23rd. As colder air moved in a band of snow developed and moved into the area late on the 23rd and into the early morning hours of the 24th bringing with it upwards of around an inch and a half of snow.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	3.14"	- 0.29"	0.97"	11/30	2.7"	2.3"	11 th
Columbus (CMH)	1.48"	- 1.72"	0.33"	11/27	2.8"	2.1"	11 th
Dayton (DAY)	1.63"	- 1.76"	0.37"	11/30	3.2"	2.3"	11 th



Precipitation (Continued)



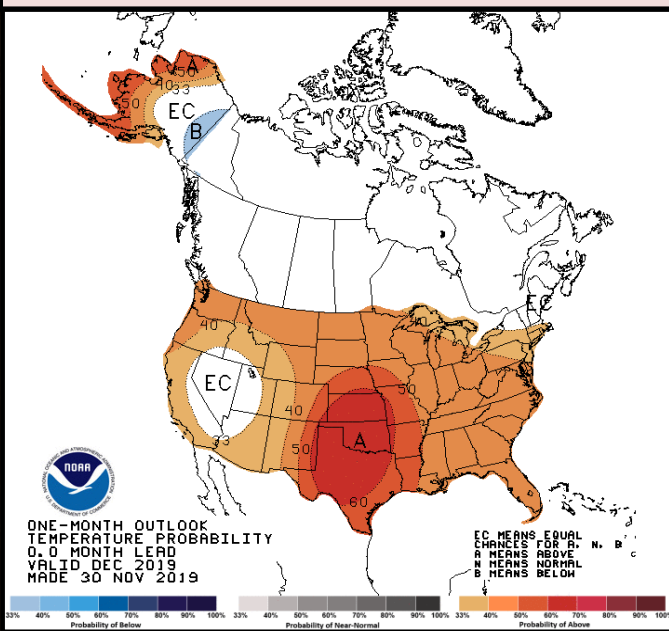
December Outlook

The latest outlook from the Climate Prediction Center (CPC) indicates an increased likelihood of above normal temperatures and precipitation across the entire region for the month of December.

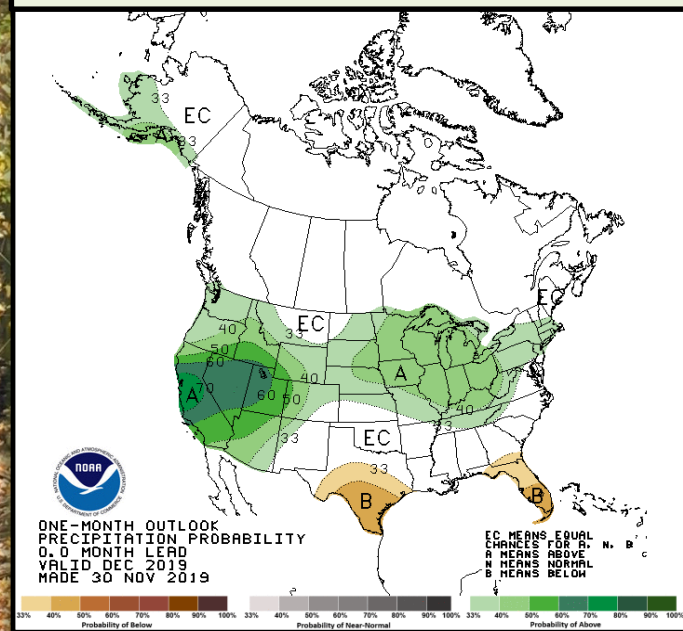
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	34.1°F	41.6°F	26.6°F
Columbus (CMH)	33.5°F	40.1°F	26.8°F
Dayton (DAY)	31.2°F	38.1°F	24.3°F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.37"	4.8"
Columbus (CMH)	2.97"	5.0"
Dayton (DAY)	3.12"	4.5"

Upcoming Temperature Outlook



Upcoming Precipitation Outlook

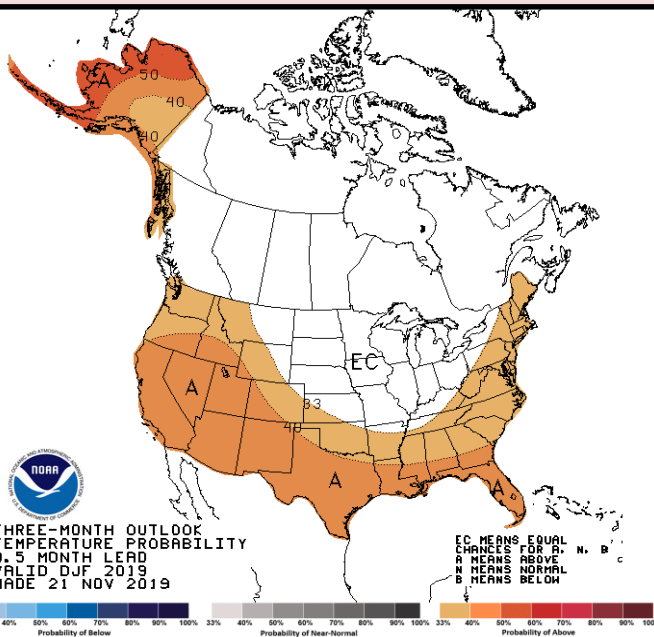


December-February Outlook

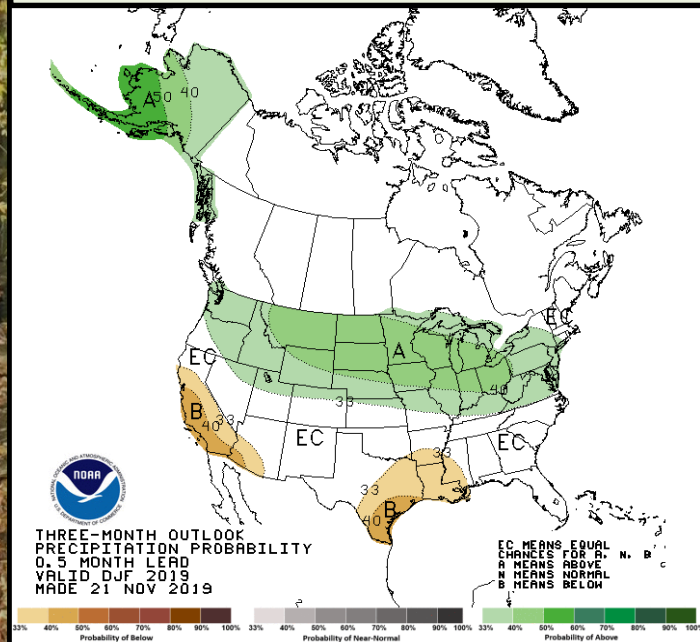
Expect El Nino Southern Oscillation (ENSO) neural conditions through the winter months. "Without either El Nino or La Nina conditions, short-term climate patterns like the Arctic Oscillation will drive winter weather and could result in large swings in temperature and precipitation," said Mike Halpert, deputy director of NOAA's Climate Prediction Center.

Overall there is a signal for an increased likelihood of above normal precipitation across the entire region. There is less of a signal for temperatures with equal chances of above normal, below normal, and normal temperatures.

Three-Month (DJF) Temp. Outlook



Three-Month (DJF) Precip. Outlook

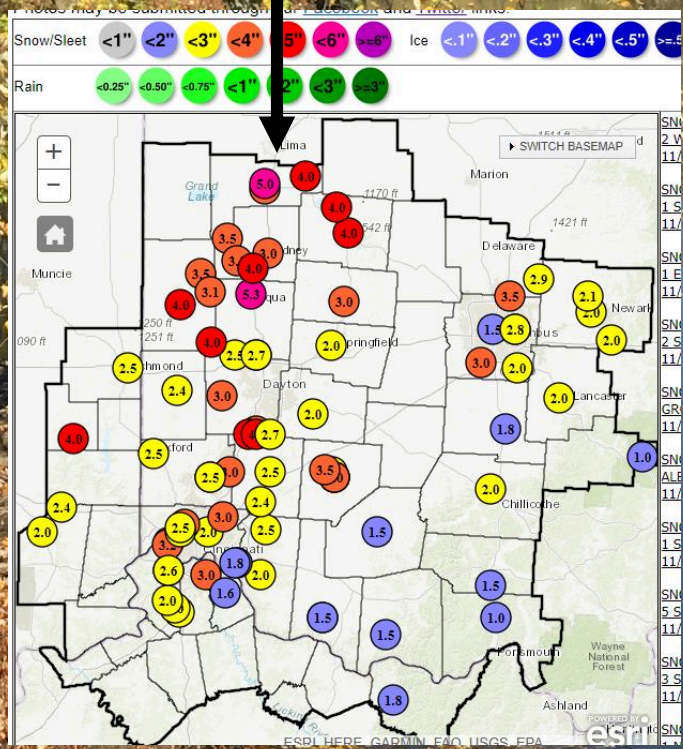


Winter Weather

Although some light rain mixed with a little bit of snow during the afternoon on the 7th, the first widespread accumulating snow occurred late on the evening of the 11th into the early morning hours on the 12th. Light rain changed to a 6-8 hour period of steady light snow for many spots – with total snow accumulations ranging from an inch or two across portions of northern Kentucky and south-central Ohio to closer to 4 inches for portions of west-central Ohio into the northern Miami Valley.

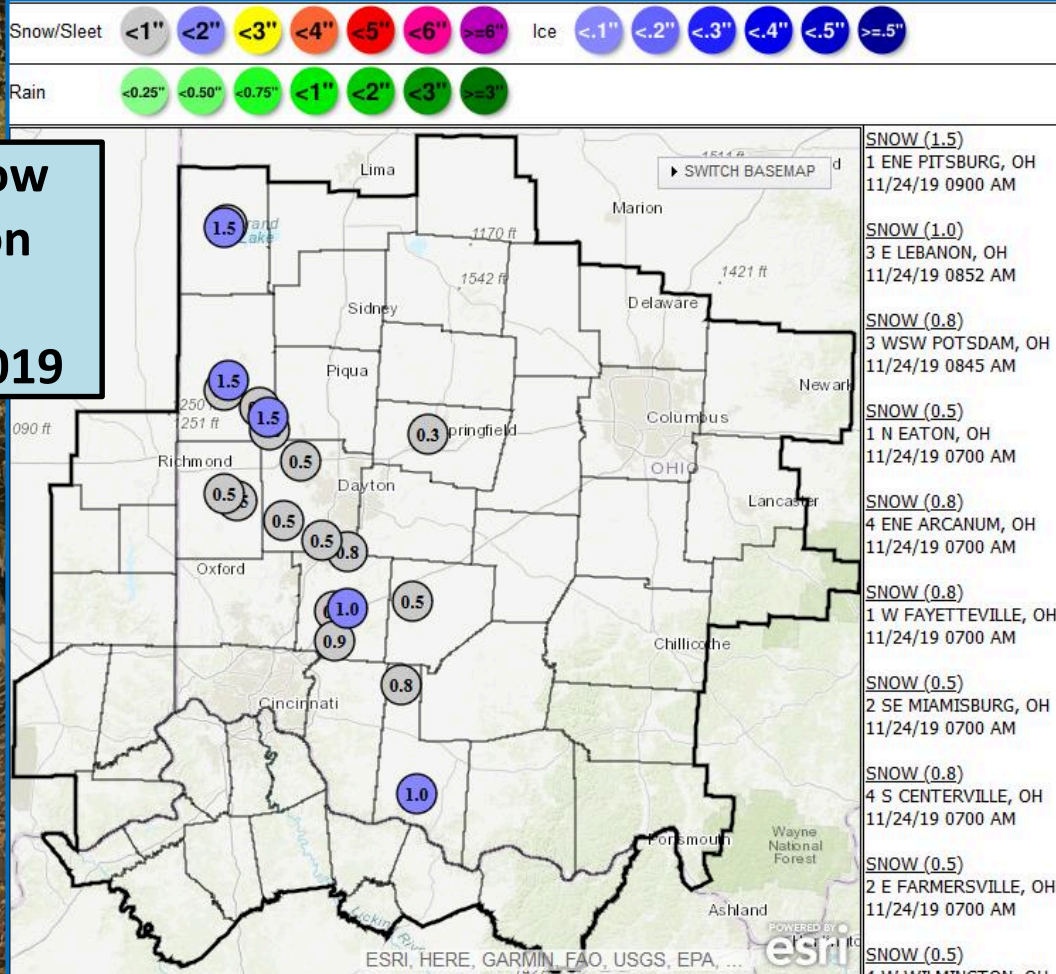
Reported Snow Accumulation Amounts: Nov. 11-12, 2019

November 7th 0.2" Snow
NWS Wilmington, OH



Winter Weather

A compact low pressure system tracked through the Ohio Valley from the afternoon on the 23rd into the early morning hours on the 24th. Widespread rain changed to a brief period of light snow on the backside of the low pressure system as it began to pull away from the region. This resulted in a swath of light snow which accumulated to an inch or inch and a half across western portions of the local area. However, temperatures rose into the 40s later in the afternoon, so the snow did not stick around for too long.



Reported Snow Accumulation Amounts: Nov. 23-24, 2019



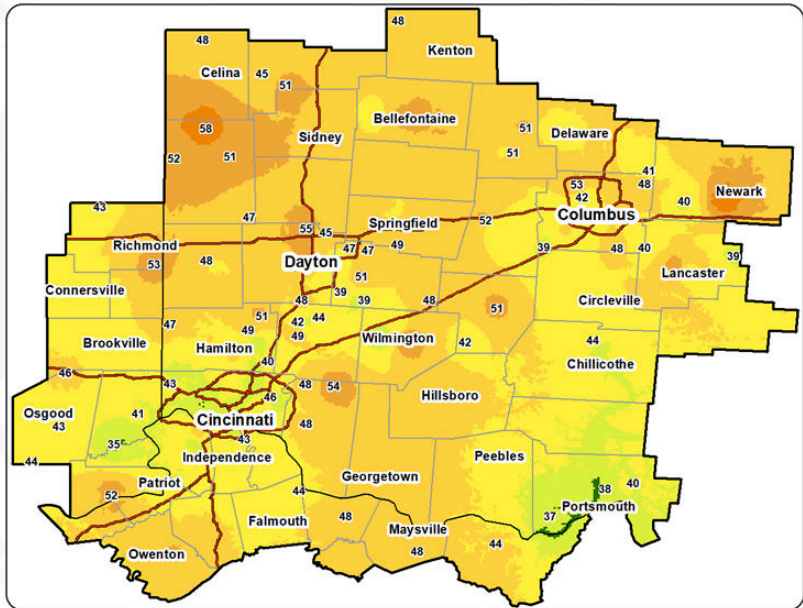
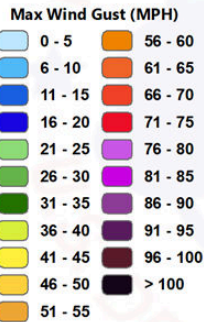
Windy Weather

A high wind event evolved across much of the region the day before Thanksgiving, with many wind gusts in excess of 40 MPH across the area. Some spots even had gusts close to 60 MPH, with high winds persisting for a 6-8 hour period from the morning into the afternoon on November 27. There were reports of sporadic tree and powerline damage due to the windy conditions.

Observed Wind Gusts (MPH) on November 27



Station / Location	Max Gust (MPH)
Wilmington (ILN)	58 MPH
Newark (VTA)	58 MPH
Dayton (DAY)	56 MPH
Kenton, OH	54 MPH
Richmond, IN	53 MPH
Ohio State Univ. (OSU)	53 MPH
Lunken, OH (LUK)	52 MPH
Darke County, OH (VES)	51 MPH



This map is an experimental interpolation of actual reported values, but should be considered an estimation only. Not all reports used in the analysis will be displayed due to space constraints. Additionally, although reports undergo an automated quality-control process, not all reports are manually quality-controlled and therefore should be considered preliminary. Reports are 24 hour max wind gust from yesterday morning through this morning.

Data Sources: NWS COOP, CoCoRaHS, ASOS/AWOS, Mesonet, Miscellaneous

0 5 10 20 30 40 Miles



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