



Weather-Ready Nation
National Oceanic and Atmospheric Administration

SERVING SOUTHEAST MICHIGAN

National Weather Service Detroit / Pontiac

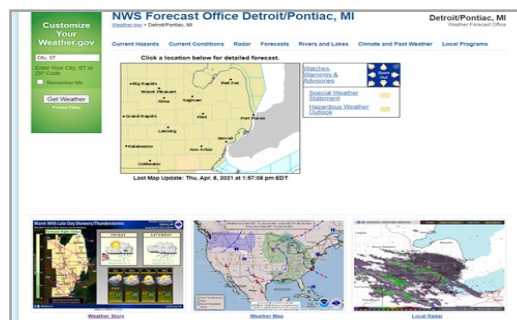
WHO ARE WE?

The *National Weather Service (NWS)* provides weather, water, and climate forecasts for the United States, adjacent waters (lakes/oceans), and territories. Our local office serves 17 counties in southeast Michigan, as well as marine interests for the US waters of Lake Huron, Lake St. Clair, and western Lake Erie. Forecasts are issued for over 6 million people 24/7, 365 days a year across southeast Michigan.

The mission of the NWS is to protect lives and property, while enhancing the national economy. To help accomplish this task, the NWS has the responsibility for issuing official watches, warnings, and other hazard-related products to the public. NWS products and services can be accessed via the internet, mobile devices, radio, local media, and private weather services to name a few. NWS data and products can be accessed by other government agencies, the public, private sector, and the global community.



WHERE CAN WE BE FOUND?



www.weather.gov/detroit

Other Useful NWS Webpages

National Webpage - www.weather.gov
Storm Prediction Center - www.spc.noaa.gov
Weather Prediction Center - www.wpc.ncep.noaa.gov
Climate Prediction Center - www.cpc.noaa.gov
US Drought Monitor - www.droughtmonitor.unl.edu
National Center for Environmental Information - www.ncei.noaa.gov
Great Lakes Environmental Research Laboratory (GLERL) - www.glerl.noaa.gov

Local Warnings Issued by NWS Detroit/Pontiac

- Tornado
- Severe Thunderstorm
- Flood/Flash Flood/River Flood
- Lakeshore Flooding
- Winter Storm
- Blizzard
- Ice Storm
- Snow Squall
- High Wind
- Wind Chill
- Frost/Freeze
- Excessive Heat
- Marine (Small Craft/Gale/Storms)
- Red Flag (Fire Weather)



Contact Us

National Weather Service Detroit/Pontiac

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Fax: 248-625-4834

Email: w-dtx.webmaster@noaa.gov

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Follow Us on Social Media!



@NWSDetroit



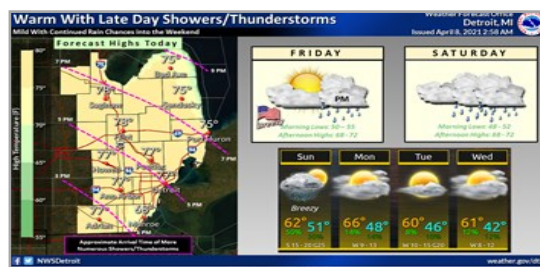
US National Weather Service Detroit/
Pontiac Michigan



NWSDetroit

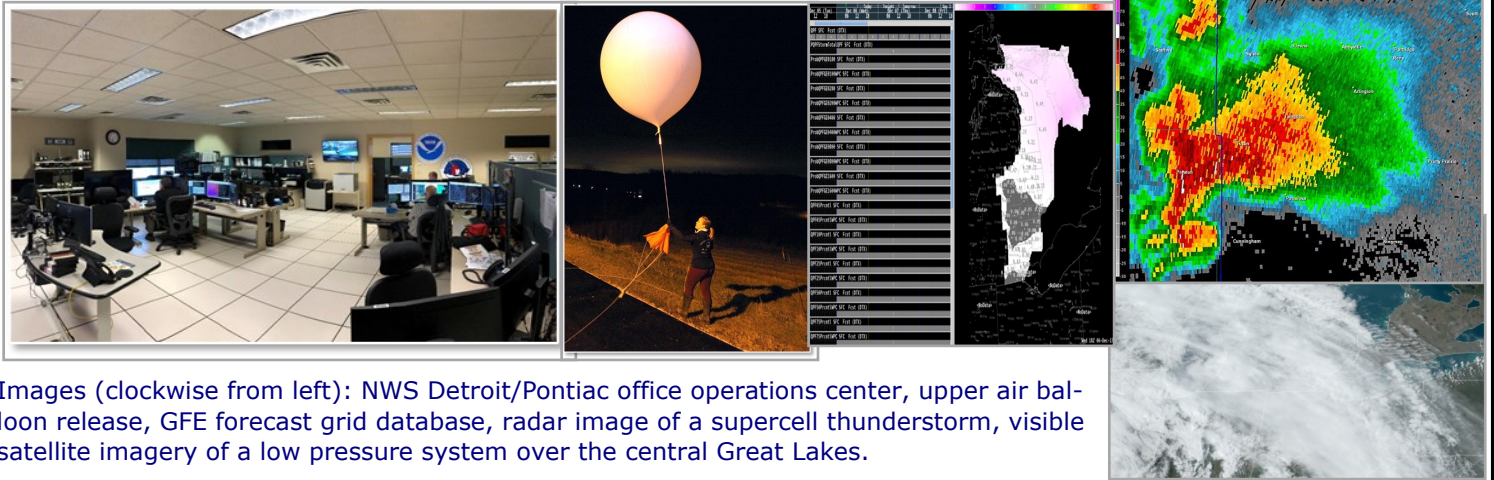
Check out our latest Weather Story!

www.weather.gov/detroit/weatherstory



How Do We Forecast?

The NWS issues forecasts 24/7, 365 days a year. Forecasts are determined by meteorologists using a variety of observational datasets such as upper air balloons (which our office launches 2 times per day), manual/automated temperature, wind, and moisture data, satellite, and radar data. The NWS maintains the most advanced radar network in the world (WSR-88D) and one of the most advanced satellite networks in the world. Additionally, meteorologists use AWIPS (Advanced Weather Interactive Processing System) to analyze a plethora of numerical model data to help prepare forecasts, which are issued via the Graphical Forecast Editor (GFE). NWS forecasts are available both in digital and text-based formats. For those aspiring to become a meteorologist, it will take a minimum of a 4 year Meteorology degree with additional background in mathematics and physics to become a meteorologist.



Images (clockwise from left): NWS Detroit/Pontiac office operations center, upper air balloon release, GFE forecast grid database, radar image of a supercell thunderstorm, visible satellite imagery of a low pressure system over the central Great Lakes.

Use The Forecast!

NWS Forecast Office Detroit/Pontiac, MI

Customize Your Weather.gov

Click a location below for detailed forecast.

Area Forecast Discussion

National Weather Service Detroit/Pontiac MI
355 PM EDT Thu Apr 8 2021

DISCUSSION.

Low sky fraction through Noon led to nearly full insolation and a quick rise to temperatures. Current readings have warmed well into the 70s for those areas that have escaped the rain. Main corridor of forcing has existed to the southwest of Lower Michigan earlier today and is associated with high 600-400mb frontal lift along the forward edge of the lead spiral of absolute vorticity. Low level theta-pv plan view perspective shows a collocation of relative higher moisture axis underneath the diffuse absolute vorticity max. Latest hires CAM output favors a continuation of shower and isolated thunderstorm activity this afternoon as frontal forcing tracks overhead. A well mixed boundary layer exists in the prefrontal environment this afternoon evidenced by dry lower troposphere in 08-12Z KDTX raob and with dewpoints only slowly rising into the lower 50s. Models do show moistening of the 0-3km layer knocking out dry adiabatic lapse rates with time this afternoon. However, there is a significant lack of

Extended Forecast for
2 Miles ESE Canton MI

| Time | Forecast | Probability | High/Low |
|----------------|---|-------------|-------------|
| This Afternoon | Shower Likely | 70% | High: 78 °F |
| Tonight | Shower Likely then Mostly Cloudy | 70% | Low: 54 °F |
| Friday | Mostly Sunny then Showers Likely and Breezy | 60% | High: 72 °F |
| Friday Night | Shower Likely then Partly Cloudy | 60% | Low: 52 °F |

Hourly Forecast

Temperature, Dewpoint, Wind, Precipitation Probability

Percent Chance of .25" Liquid Precipitation or More

Valid: 04/08/2021 08:00 AM - 04/11/2021 08:00 AM EDT

There are multiple ways to use a NWS forecast!

- Get the forecast straight from our web homepage
- Read our scientific forecast discussion
- Hour by hour forecast out through 7 days
- Probabilistic forecasts (best case, most likely, worst case scenarios)

Weather Definitions

Watch: The NWS issues a watch when conditions are favorable for the development of some type of hazardous weather. When a watch is issued, stay alert to changing weather conditions and listen or watch for later forecasts and/or upgrades to warnings. Watches provide time to prepare for hazardous weather before it occurs.

Warning: The NWS issues a warning when hazardous weather is imminent or occurring. Take immediate action to protect yourself, others, and property! A warning means that loss of life or damage to property is possible.

Advisory/Special Weather Statement: The NWS issues an advisory or statement for sub-warning hazardous weather. These products are scheduled to go away in 2024 as part of the NWS Hazard Simplification Project.

