

Weather Report: Future Radar

User Guide & Manual

Version 1 (Updated March 15, 2024)

Contents

Home Screen & Settings	2
Primary Card	2
Imminent Precipitation Outlook	3
Hourly Details	3
Weather Story	4
Daily Forecast	5
Week Forecast	5
Day Forecast	6
Charts	7
Overview	7
Severe Weather Center	8
Convective Outlook	8
Excessive Rainfall Outlook	9
Winter Storm Severity Index	10
Radar	11
Overview	11
Settings	11
Layers	11
Miscellaneous	12
Weather Watches	12
Widgets (Android)	13
Widgets (iOS)	13

Home Screen & Settings

Primary Card

This is where you will see the current conditions for your selected place.

Place Search Bar:

Displays the current place.
Click on it to search for another place.

Temperature:

The current temperature according to the selected units.

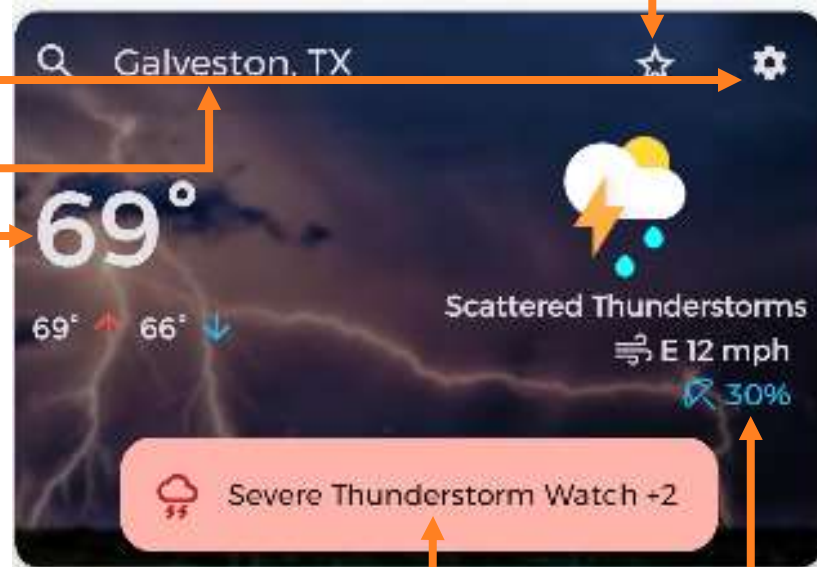
Below are the high and low temperatures for the rest of the calendar day.

Settings Button: *Only on Android*

For iOS, go to the Settings App and select Weather Report

Favorite Place Button:

Press to remember the place.
Favorites will appear first in the list.



Current Alert:

Will only be visible if there is an alert for your location (or surrounding bodies of water) from the National Weather Service.
Click on it to read the alert.

Percentage Chance of Precipitation:

The likelihood of your location receiving precipitation.





Setting	Functionality
Temperature Units - Celsius - Fahrenheit	Changes the units displayed for temperature.
Wind Speed Units - MPH - KM/H	Changes the units displayed for wind speed.
Follow Me	Changes whether location will automatically update. Requires permissions. When location is manually input, functionality will be disabled.
Show Marine Alerts	Whether alerts for surrounding bodies of water will appear. Does not impact notifications. Does not include <i>Severe Thunderstorm Watches</i> or <i>Tornado Watches</i>
Show Hazardous Outlooks	Hazardous Weather Outlooks can appear in your alerts list if enabled. These notices provide summaries about future hazards.
Notifications	Notification settings allow you to disable notifications for alerts (iOS) or individual alert categories (Android). Android users can set up or disable twice-daily forecast notifications

Imminent Precipitation Outlook

This graph is only present if significant precipitation is expected to begin, continue or end soon.

This provides an outline of the next several hours of precipitation. The bar height depends on the percent chance of precipitation.

Bar color changes with the type of precipitation as shown below:

 Now	Thunderstorms
 Now	Rain
 Now	Wintry Mix <i>Could be Freezing Rain, Sleet, Graupel, etc.</i>
 Now	Snow

Hourly Details

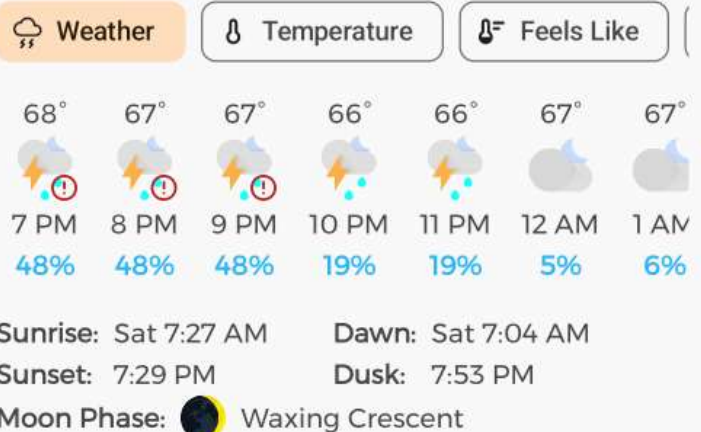
This card shows details for the next 24 hours. If 12 hours have passed since the sunrise / dawn, the next day's sunrise / dawn will be displayed instead.

More information is available in the Daily Forecast section.

Thunderstorm Continues



Details



Weather Story

This card is only available for locations where the National Weather Service supports weather stories. It may be unavailable at times when your local office has no weather story (usually during quiet weather).

This graphic is created by humans at your local NWS (National Weather Service) office. It usually encompasses the most pressing aspects of your weather, such as hurricanes, storms, flooding, droughts, etc.

Click on the image to zoom in.

The buttons “Previous” and “Next” allow you to page through each graphic. These buttons will be gray if there are no other / more stories in that direction.

Severe Storms mainly after 9 PM July 28, 2021 3:15 PM

Main hazard is a swath of damaging winds, possibly hurricane force

Key Messages:

- Clusters of risk of severe thunderstorms will track from northwest Wisconsin to southeast Wisconsin this evening, possibly lingering into early morning hours on Thursday.
- These types of storms can end up moving faster than expected.
- All severe weather hazards are possible, but a swath of damaging winds, possibly hurricane force, remains the primary threat north of a line from Lone Rock to Janesville.

Possible Hazards

Damaging Winds Tornadoes Hail

Severe Weather Outlook
Wednesday, July 28, 2021

Risk Level 4/5
Risk Level 3/5
Risk Level 2/5

Severe Storms mainly after 9 PM

Still looking like severe thunderstorms possible across much of Wisconsin this evening into tonight.

The main concern in southern WI is widespread damaging winds between 10 pm and 4 am. Have multiple...

Previous Next

Daily Forecast

Week Forecast

This forecast is for the next 7 days. *Although, it is limited to 6 days during short periods.*

Severe Risk:

Each icon represents a risk for severe weather outlined by the National Weather Service. There are three icons, *winter weather, flooding, and severe thunderstorms.*

Note that a “Severe Thunderstorm” is defined as a convective storm capable of producing 58+ mph wind, 1” hail (quarter size) or tornadoes.

Risk Categories:

Risk	Explanation
Limited	Possibility for a small severe threat.
Likely	A severe threat is quite possible, but it will be localized.
Very Likely	A widespread severe threat is likely.
High	A widespread, significant severe threat is expected.
Life Threatening	A memorable prolific severe event is expected. Pay attention to the forecast as a major event is likely.

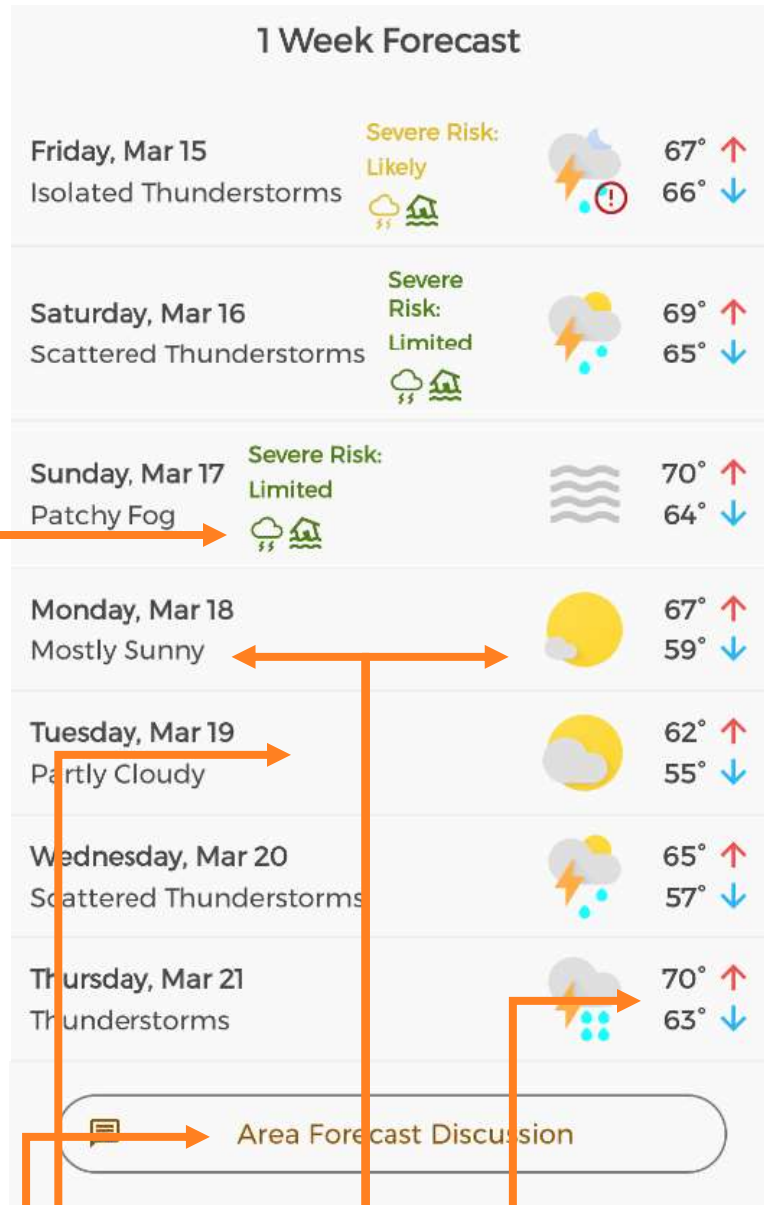
Day Forecast:

Click on an element of the forecast to expand it.

Area Forecast Discussion:

For Advanced Users

Provides the rationale behind the forecast from your local NWS office.



Condition:

The most prominent condition for that day

Temperature:

The high and low temperature for that calendar day

Day Forecast

This can be accessed by clicking on any day in the daily forecast view.

Much of what is explained here applies to the Hourly Details on the Home Screen.

Description:

A textual forecast for the day. A list of precipitation vocabulary is below.

Term	Definition
Slight Chance	Isolated / 20% Chance
Chance	Scattered / 30 - 50 % Chance
Likely	70% Chance

Probability of Precipitation:

The likelihood of your location receiving precipitation in that hour.

Moon Phase:

The current phase of the moon. The yellow part of the icon represents the illuminated part.

Solar Times:

The times are defined as follows.

Dawn: Civil Sunrise; 6° below horizon

Sunrise: 0.9° below horizon

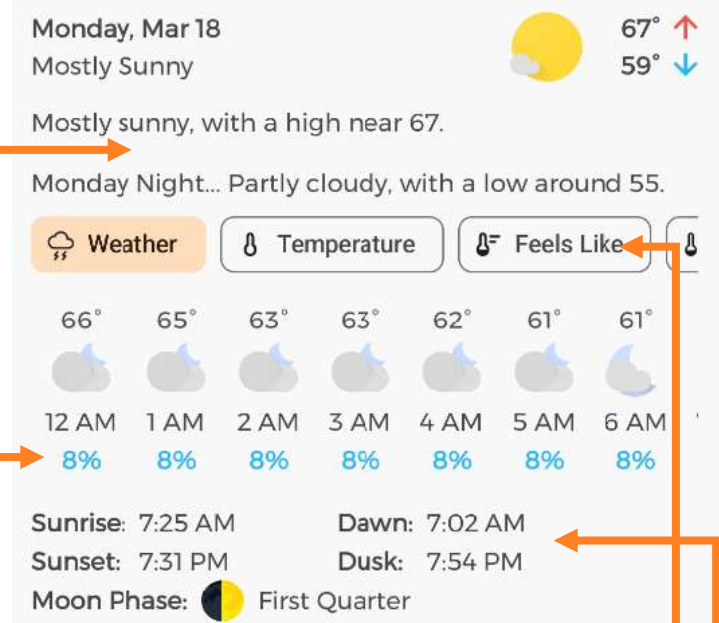
Sunset: 0.8° below horizon

Dusk: Civil Sunset; 6° below horizon

Displayed Metric:

On iOS, click on the blue colored list and click on any option. You can change the displayed metric for the hourly forecast. The options are outlined below.

Option	Description
Weather / Condition	The temperature, condition, and % precipitation
Temperature	The temperature
Feels Like	The heat index (if hot) or the wind chill (if cold)
Dewpoint	The dewpoint (<i>the temperature at which the air becomes fully saturated</i>)
Humidity	The relative humidity.
Wind	The wind speed and direction
Wind Gust	The max wind gust speed



Charts

Overview

See charts made by the National Weather Service.

Click on the image to zoom in.

The buttons “Previous” and “Next” allow you to page through each graphic. These buttons will be gray if there are no other / more charts in that direction.

List of Charts:

- Daily Forecast
- Precip. Amount
- Ice Accumulation
- Snow Accumulation
- Relative Humidity
- % of Precip.
- Temperature
- Predominant Weather
- Wind Speed & Direction



Severe Weather Center

Convective Outlook

Issued by the Storm Prediction Center, the Convective Outlook is the best severe thunderstorm forecast for the continental United States.

Convection is another word for thunderstorms, and severe thunderstorms are classified as thunderstorms producing 58+ mph wind gusts, 1" or greater hail, and any tornadoes.

You can see forecasts for the next 8 days (the current week). For days 1 and 2, you can see a categorical threat or individual hazards. Risks are defined in the included key. A hatched area represents a risk for significant severe weather (defined as hail 2" or greater, winds 75+ mph, or EF2+ tornadoes).

Click on the image to zoom in.

You can see a list of cities displayed over the image, but it does not appear when zoomed in.

"Read Discussion" shows an advanced synopsis of the weather pattern and its impact on risk for severe convection. *This is for advanced users.*

Categorical Risks and Descriptions:

Categorical risks are determined by a mix of severity of the storms, size of the weather, and confidence in the outcome.

TSTM	Convection is expected but will not be severe.
MRGL	Low threat. (Maybe a severe storm or two)
SLGT	Slight threat. (Can still be very bad storms)
ENH	Medium threat. (Starting to get high end)
MDT	High threat. (Can turn into a memorable tornado outbreak or thunderstorm event)
HIGH	Extreme threat. A prolific severe weather outbreak is expected. You will remember this for years to come.



Excessive Rainfall Outlook

This is issued by the Weather Prediction Center for the next 5 days, including today. It is a representation of the threat of flash flooding.

Click on the image to zoom in.

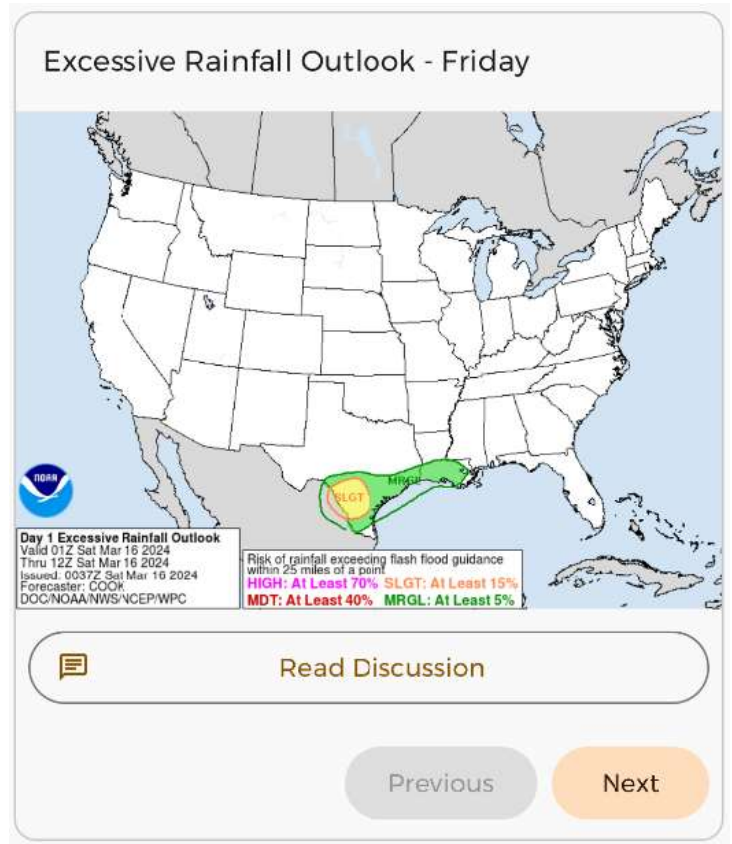
“Read Discussion” shows an advanced synopsis of the weather pattern and its impact on risk for flooding. *This is for advanced users.*

The buttons “Previous” and “Next” allow you to page through each graphic. These buttons will be gray if there are no other / more charts in that direction.

Categorical Risks and Descriptions:

Categorical risks are determined by a mix of severity of the flooding, size of the weather, and confidence in the outcome.

MRGL	Low threat. (Maybe a small flash flood)
SLGT	Slight threat. (More flash flooding)
MDT	Medium threat. (Widespread flash flooding)
HIGH	Extreme threat. (Widespread, significant flash flooding)



Winter Storm Severity Index

This is a graphic made by the Weather Prediction Center at the National Weather Service. It represents the risk posed by winter conditions for your locality.

Click on the image to zoom in.

You can select which risk to see by scrolling through the list (*Android*). Or by clicking the blue text “Overall” and selecting another condition (*iOS*).

“Read Discussion” shows an advanced synopsis of the weather pattern and its impact on risk for winter weather. *This is for advanced users.*

The buttons “Previous” and “Next” allow you to page through each graphic. These buttons will be gray if there are no other / more charts in that direction.

Risk Options:

Overall	The maximum impact from any component.
Blowing Snow	Falling snow combined with wind.
Flash Freeze	Rapid decrease in temperature with the presence of liquid water.
Ground Blizzard	Snow on the ground combined with wind.
Ice Accumulation	Ice accumulation and wind.
Snow Amount	Snow amount and snow rate.
Snow Load	Weight of the snow on structures



Radar

Overview

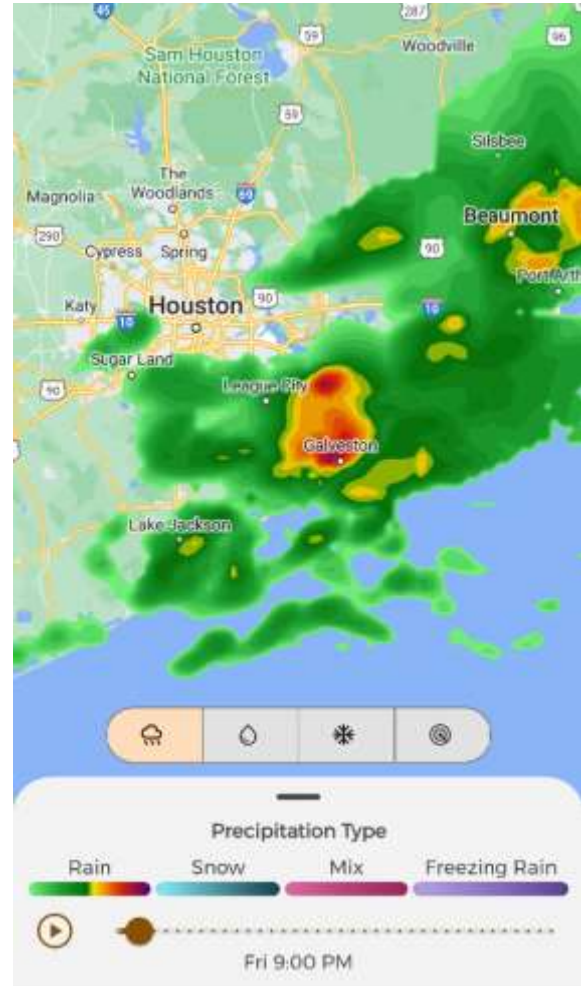
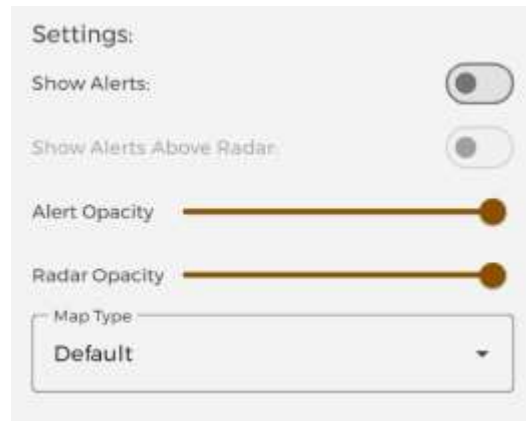
You can zoom in and out of the map, as well as pan with your fingers.

Clicking on a location displays alerts for that point.

You can change the time displayed by using the slider or pressing the play/pause button.

Settings

You can change several settings by swiping up with the gray bar.



Layers

Due to technical limitations, sometimes the maximum time span is less than 48 hours. It is always more than 36 hours.

Several layers are offered for different time spans:

Layer	Timespan	Description
Precipitation Type	48 hours (every hour)	Simulated radar at the time. <i>Does not represent current conditions, especially with convective weather.</i>
Precip. Accumulation	48 hours (every hour)	The cumulative precipitation.
Snow Accumulation	48 hours (every hour)	The cumulative snowfall.
Precipitation Intensity	~1 hour (every 6 minutes)	Real-time precipitation data from doppler radar. Extrapolated with translation.

Miscellaneous

Weather Watches

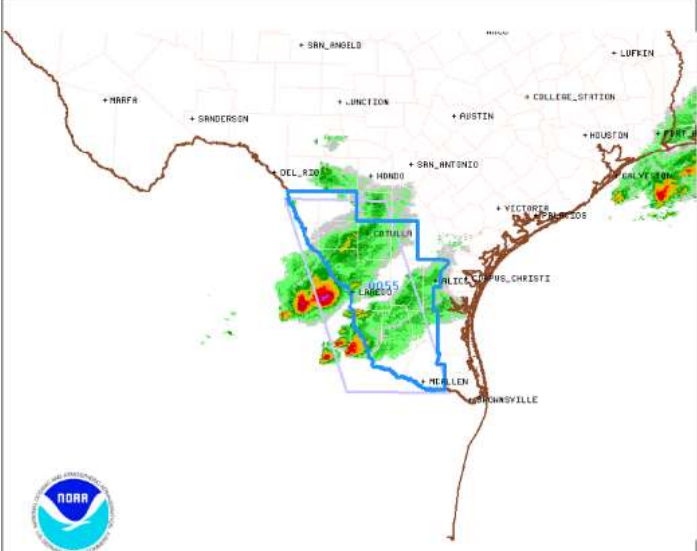
When the Storm Prediction Center issues a Tornado Watch or a Severe Thunderstorm Watch, you can see advanced details.

Click on the image to zoom in. It represents the current doppler radar and current coverage of the watch.

See a list of hazards sorted by their likelihood and significance.

Read the description of expected impacts and locations.

Severe Thunderstorm Watch from Fri 7:48 PM until Sat 3:00 AM



Severe Thunderstorm Watch # 55 - Valid from 745 PM until 300 AM CDT
NOAA/NWS/Storm Prediction Center Updated: 20240316/0233 UTC

Severe Risk:

2"+ Hail Medium	60 mph+ Wind Medium	1"+ Hail Medium	7
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The NWS Storm Prediction Center has issued a

- * Severe Thunderstorm Watch for portions of South Texas
- * Effective this Friday night and Saturday morning from 745 PM until 300 AM CDT.
- * Primary threats include... Scattered large hail and isolated very large hail events to 2.5 inches in diameter likely Scattered damaging wind gusts to 70 mph possible

SUMMARY...Severe thunderstorms currently just west of the Rio Grande will build eastward into South Texas tonight, posing a risk of very large hail and damaging

Widgets (Android)

We offer the following widgets for Android:

- Weather Icon



- Weather Condition



- Forecast



Widgets (iOS)

We offer the following widgets for iOS:

- Gauge widgets for lockscreen:
 - o Wind Speed
 - o Wind Gust
 - o Temperature
 - o Feels-Like Temperature
 - o Dewpoint
 - o Relative Humidity
 - o Percent Chance Precipitation and Condition
- Text Widget for lockscreen:
 - o Summary of weather
- Rectangular widget for lockscreen:
 - o Weather conditions
 - o High and low temperatures
 - o Alerts
- Regular widgets:
 - o Small: Temperature and condition, with alert icon
 - o Rectangle: Hourly Forecast with temperature, condition, and percent precipitation