



National Weather Service Heat Warning Program

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NOAA/NWS Phoenix, AZ

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Communicating Heat Threat



- **NWS messages potential for impactful heat with numerous tools.**
 - Temperature Forecast including HeatRisk
 - Social Media
 - Partner Briefings (Email)
- **Official alerts (Excessive Heat Watches/Warnings) are “biggest bells” to ring.**



Temperature Forecasts

Weather.Gov/Phoenix

← → ↻ 🏠 ⓘ https://www.weather.gov/psr/ ☆

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME FORECAST PAST WEATHER SAFETY INFORMATION

Local forecast by "City, ST" or ZIP code
 Enter location
[Location Help](#)

News Headlines

- [Skywarn Storm Spotter class schedule - Updated](#)
- [This Day in Weather History](#)

MY FORECAST
3 Miles N Tempe AZ
NA

84°F
29°C [Get Detailed Info](#)

Tonight

Increasing Clouds
Low: 58°F

Tuesday

Mostly Sunny
High: 89°F

[change location](#)

NWS Forecast Office Phoenix
[Weather.gov](#) > NWS Phoenix

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#)

Click a location below for detailed forecast.

Last Map Update: Mon, Mar. 25, 2019 at 4:57:25 pm MST

Extended Forecast for
3 Miles N Tempe AZ

Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night
Low: 58 °F	High: 89 °F	Low: 60 °F	High: 87 °F	Low: 59 °F	High: 85 °F	Low: 55 °F	High: 83 °F	Low: 55 °F

Detailed Forecast

Tonight	Increasing clouds, with a low around 58. Calm wind becoming west northwest around 5 mph.
Tuesday	Mostly sunny, with a high near 89. East wind around 5 mph becoming calm.
Tuesday Night	Mostly cloudy, with a low around 60. West wind around 5 mph becoming calm.
Wednesday	Cloudy, with a high near 87.
Wednesday Night	Partly cloudy, with a low around 59.
Thursday	Sunny, with a high near 85.
Thursday Night	Clear, with a low around 55.
Friday	Sunny, with a high near 83.
Friday Night	Mostly clear, with a low around 55.
Saturday	Sunny, with a high near 84.
Saturday Night	Mostly clear, with a low around 55.
Sunday	Sunny, with a high near 84.
Sunday Night	Clear, with a low around 55.
Monday	Sunny, with a high near 85.

Topographic
Click Map For Forecast



Point Forecast: 2 Miles SSE Phoenix AZ
33.5°N 112.05°W (Elev. 1175 ft)

Last Update: 1:48 pm MST Mar 25, 2019

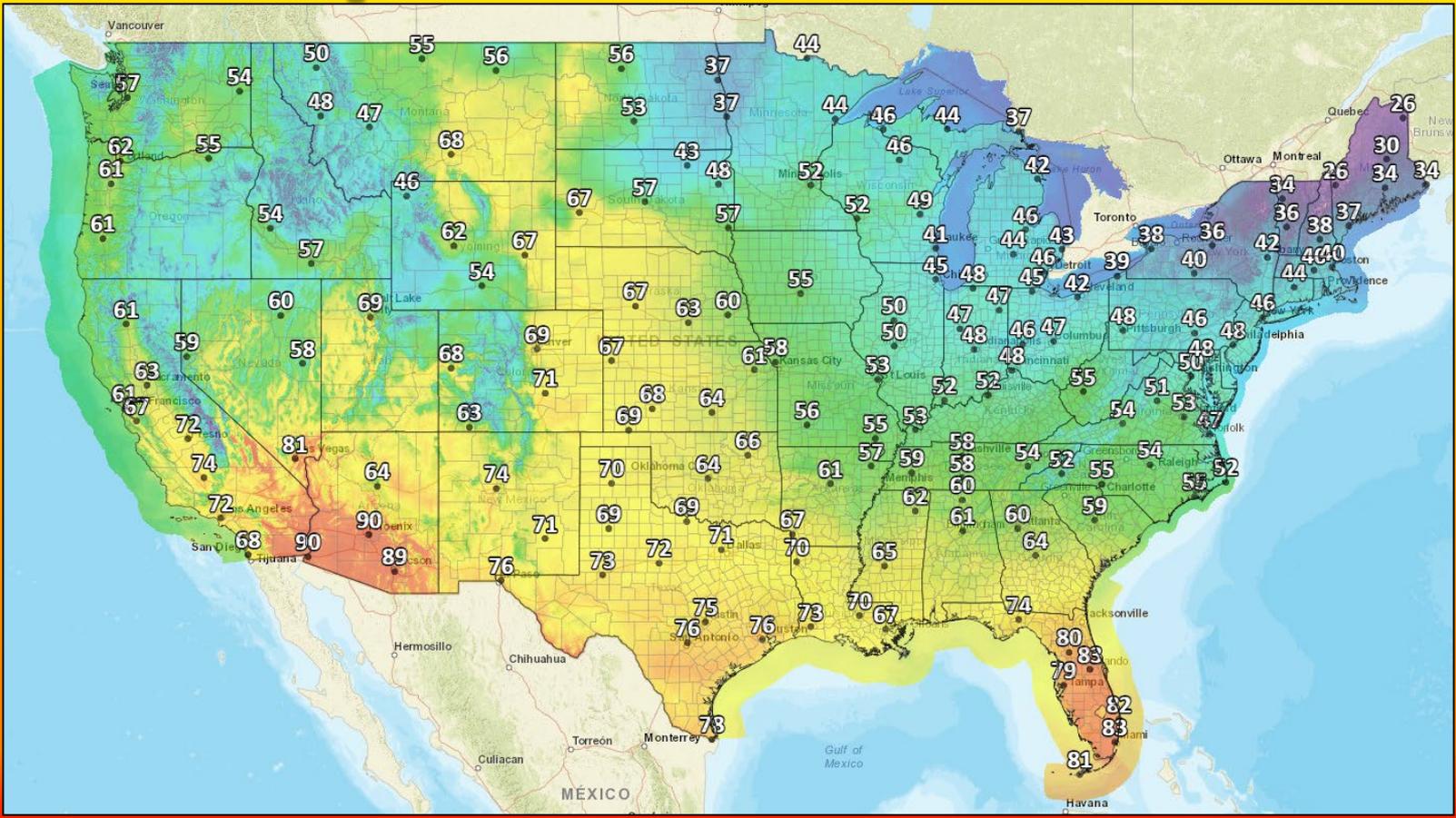
Forecast Valid: 5pm MST Mar 25, 2019-6pm MST Apr 1, 2019

[Forecast Discussion](#)

[KML](#) [XML](#)



Temperature Forecasts

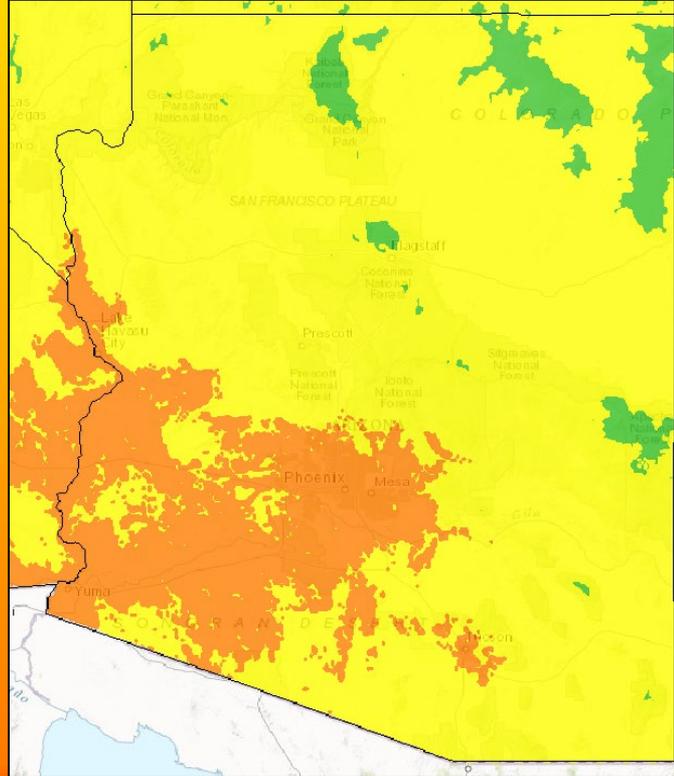




HeatRisk



Category	Meaning
Green	No Elevated Risk
Yellow	Low Risk for those extremely sensitive to heat, especially those without effective cooling and/or adequate hydration
Orange	Moderate Risk for those who are sensitive to heat, especially those without effective cooling and/or adequate hydration
Red	High Risk for much of the population, especially those who are heat sensitive and those without effective cooling and/or adequate hydration
Magenta	Very High Risk for entire population due to long duration heat, with little to no relief overnight



Kind Of like...



For Heat



NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



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Local forecast by "City, St" or ZIP code

Go

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News Headlines

- [NWS Phoenix Active News Headlines -- RSS feed](#)

NWS Forecast Office Phoenix, AZ

[Weather.gov](#) > NWS Phoenix

NWS Phoenix

Weather Forecast Office

Customize Your Weather.gov

City, ST

Enter Your City, ST or ZIP Code

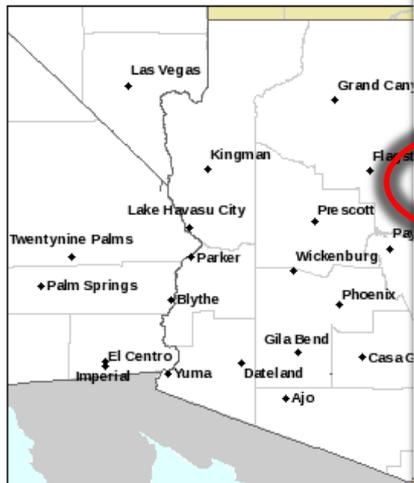
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Click a location below for detailed forecast



Local Area

Forecast Discussion

User Defined Area

Air Quality

Experimental HeatRisk

Activity Planner

Travel

Hurricane Center

Aviation Weather

Fire Weather

Severe Weather



[Weather Watch](#)

[Dangerous Weather](#)

Last Map Update: Wed, Apr. 19, 2017 at 1:24:21 pm MDT



EXPERIMENTAL NWS POTENTIAL HEAT RISKS

Click map for potential heat risks and official NWS forecast for a location.

Wed 9/6 Thu 9/7 Fri 9/8 Sat 9/9 Sun 9/10 Mon 9/11 Tue 9/12

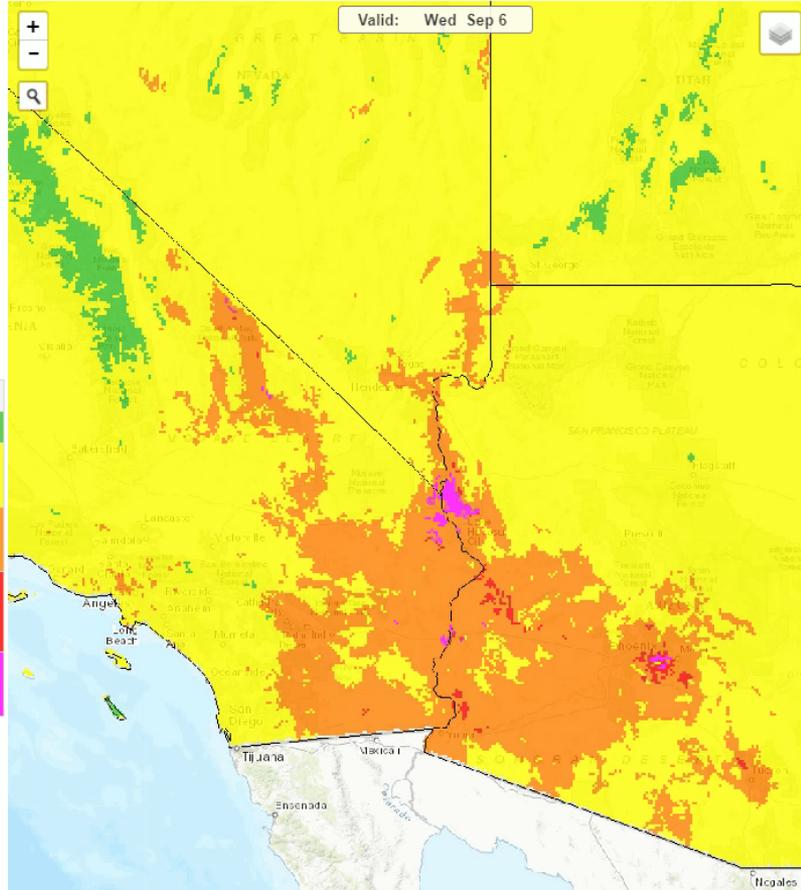
Click map for potential heat risks and NWS forecast for a location.

HeatRisk

[More Information](#)

Heat affects everyone differently. In order to better address heat risk and allow you to prepare for upcoming heat events, the NWS has developed the experimental HeatRisk forecast. The NWS HeatRisk forecast provides a quick-view of heat risk potential over the upcoming seven days. The heat risk is portrayed in a numeric (0-4) and color (green/yellow/orange/red/magenta) scale which is similar in approach to the Air Quality Index (AQI) or the UV Index. In a similar way, it provides one value each day that indicates the approximate level of heat risk concern for any location, along with identifying the groups who are most at risk. This product is supplementary to the official NWS heat watch/warning/advisory program and is meant to provide continuously available heat risk guidance for those decision makers and heat sensitive populations who need to take actions at levels that may be below current NWS heat product levels.

Category	Level	Meaning
Green	0	No Elevated Risk
Yellow	1	Low Risk for those extremely sensitive to heat, especially those without effective cooling and/or adequate hydration
Orange	2	Moderate Risk for those who are sensitive to heat, especially those without effective cooling and/or adequate hydration
Red	3	High Risk for much of the population, especially those who are heat sensitive and those without effective cooling and/or adequate hydration
Magenta	4	Very High Risk for entire population due to long duration heat, with little to no relief overnight



HeatRisk

Available Online

<https://www.wrh.noaa.gov/wrh/heatrisk/>
(API possible for 2019)

**Official Method for
Determining
When & Where to Issue
Heat Warnings
*(Red & Magenta Days)***

**How are you
getting alerted for
NWS Warnings?**



Social Media/Messaging



NOAA NATIONAL WEATHER SERVICE

Significant End of Week Heat

Friday, July 15

What To Do

- Drink before you're thirsty
- Dress for heat
- Reduce time in the sun; avoid strenuous activity during the afternoon
- Help elderly, kids, & pets stay cool
- Close blinds during day – open windows at night

Orange Means...
Heat like this happens many times a year. It will be relatively easy to take simple precautions to keep safe.

Red Means...
Heat of this magnitude happens a few times each year. Impacts are likely, even for the general population, if precautions are not taken.

Magenta Means...
Heat of this magnitude is rare, dangerous, and deadly.

Potential Heat Risks
Valid: Friday, July 15, 2016

Heat Related Deaths ARE Preventable
LOOK BEFORE YOU LOCK

weather.gov/heat nhtsa.gov

Never leave children, disabled adults or pets in parked vehicles.

Outside Temperature 81°	Inside Temperature 111°	Outside Temperature 87°	Inside Temperature 127°
100% Humidity	100% Humidity	100% Humidity	100% Humidity
100% Humidity	100% Humidity	100% Humidity	100% Humidity

HEAT EXHAUSTION OR HEAT STROKE

CALL 9-1-1

• Drink water if fully conscious
• Take immediate action to cool the person until help arrives

When it is hot and you are outdoors...

- Wear lightweight, loose fitting, light-colored clothing to reflect heat and sunlight
- Hats are also a good idea to protect your face and scalp from harmful UV rays
- Apply sunscreen liberally

Dress the Part

Weather-Ready Nation
National Weather Service
weather.gov/heat





NWS Email Briefings



NATIONAL WEATHER SERVICE PHOENIX, AZ FORECAST OFFICE WEATHER BRIEFING



Issued: Thu, September 13, 2018 @ 800 pm MST
Valid For: Friday-Saturday September 14-15, 2018



What: Excessive Heat Warning with highs between 106-112 degrees.

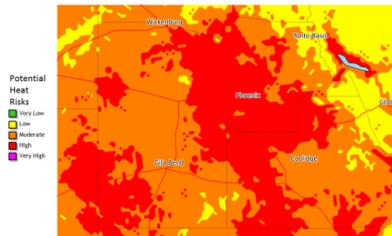
Where: Lower deserts of south central Arizona including the greater Phoenix area and portions of northwest Pinal County.

When: 10 am Friday through 8 pm Saturday.

Weather Impacts: Increase in heat related illness for people exercising or working outdoors as well as vulnerable populations without access to air conditioning.

Confidence: High

Experimental NWS Potential Heat Risks
Valid: September 14, 2018



National Weather Service
Phoenix Arizona
09/13/2018 07:54 PM MST

Follow Us:
weather.gov/Phoenix

[Click here for Graphical Hazards Viewer](#)



24/7 Decision Support
Hotline 602-275-7005





Official Alerts

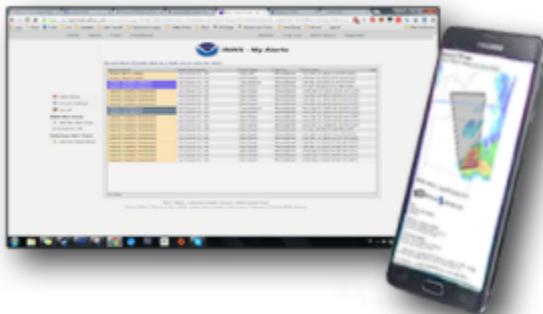


iNWS - Interactive NWS

National Weather Service Mobile Decision Support Services (MDSS)

iNWS MOBILE ALERTING

Receive customized text message and e-mail alerts for National Weather Service products that you care about.



Welcome

InteractiveNWS (iNWS) is the home of new mobile and desktop innovations of the National Weather Service. This application suite allows NWS partners to receive National Weather Service products in new and innovative ways, such as text messaging and mobile-enabled webpages. iNWS strives to fulfill our mission of protecting life and property by using technology to reach out to our customers.

PLEASE NOTE:

iNWS is intended for members of community emergency planning and response management:

- emergency managers
- law enforcement
- fire and emergency responders
- transportation and safety managers
- public officials

Skywarn Net Control operators
Government partners of the NWS
Members of the media

Please do not register if you do not fit one of these descriptions

Interactive NWS Alert

Alert event: Blowing Dust Advisory for Maricopa, AZ
Sent via email and SMS at 4:12 pm MST, Feb. 27th 2018

Radar valid at 600 pm MST, Feb 27th 2018

NWS Alert **User Alert Area**

AZZ537-540-542>544-546-548-550-551-280100-
 IO NEV-KPSR DU Y 0004 180227Z311Z-180228T0100Z/
 Northwest Valley/Buckeye/Avondale/Oro Valley-Central Phoenix
 North Phoenix/Glendale-Scottsdale/Paradise Valley-East Valley-
 South Mountain/Ahwatukee-Southeast Valley/Queen Creek-
 Including the cities of Circle City-Surprise, Wintarum,
 Beardsley, Sun City West, Avondale, Cashion, Goodyear, Liberty,
 Peoria, Phoenix, Paradise Valley, Mesa, Chandler, Tempe, Gilbert,
 Sun Lakes, and Queen Creek
 411 PM MST Tue Feb 27 2018

...BLOWING DUST ADVISORY IN EFFECT UNTIL 6 PM MST THIS EVENING...

The National Weather Service in Phoenix has issued a Blowing Dust Advisory, which is in effect until 6 PM MST this evening.

- * **AFFECTED AREA.** Much of the western and central parts of the Phoenix metro
- * **TIMING.** Through 6 pm
- * **WINDS.** Southwest winds gusting up to 40 mph
- * **VISIBILITY.** Locally falling below 1 mile
- * **IMPACTS.** Blowing dust will make driving hazardous during the evening rush hour

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Be ready for a sudden drop in visibility. If you encounter blowing dust or blowing sand on the roadway or see it approaching, pull off the road as far as possible and put your vehicle in park. Turn the lights on the way off and keep your foot off the brake pedal.

Remember, pull aside, stay alive.



NWS Heat Policy in AZ



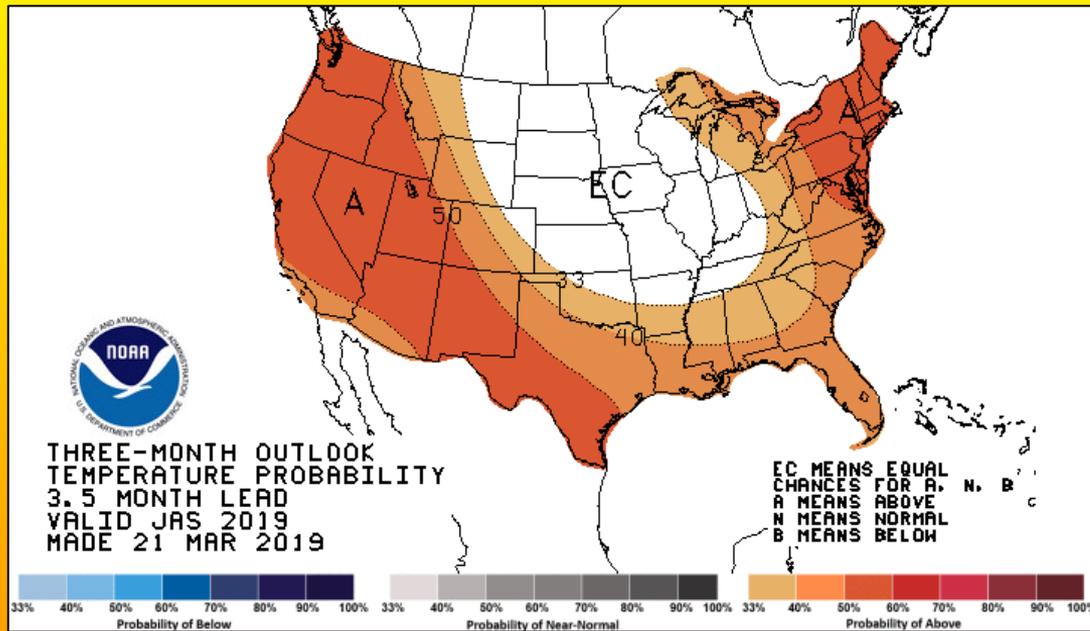
- **HeatRisk used to determine level of messaging.**
 - Verbiage in social media/briefing material
 - In general, High (red) or Very High (magenta) HeatRisk triggers issuance of Excessive Heat Watches/Warnings
 - Watches (conditions favorable) typically issued 2-7 days in advance.
 - Warnings (conditions occurring or imminent) typically issued as far as reasonably possible



General Event Timeline



Timeline	HeatRisk	NWS Actions			
		Social Media	Email Briefing	Excessive Heat Watch	Excessive Heat Warning
Day +7	Red	X	X		
Day +6	Red	X			
Day +5	Red	X	X	X <i>ALERT</i>	
Day +4	Magenta	X		X	
Day +3	Magenta	X	X		X <i>ALERT</i>
Day +2	Magenta	X			X
Day +1	Magenta	X			X
Day Of	Red	X			X



This summer will be hot! There will be extreme heat! Be prepared!

Paul.Iniguez@noaa.gov

Readying your community for extreme weather, water, and climate events. By becoming a WRN Ambassador, your organization can serve a pivotal role in affecting societal change by:



- Promoting Weather-Ready Nation messages
- Collaborating with NOAA
- Sharing your success stories
- Serving as an example

Weather.Gov/WRN