

APPENDIX C

PUBLIC INFORMATION AND OTHER NOTICES

FIGURE C-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

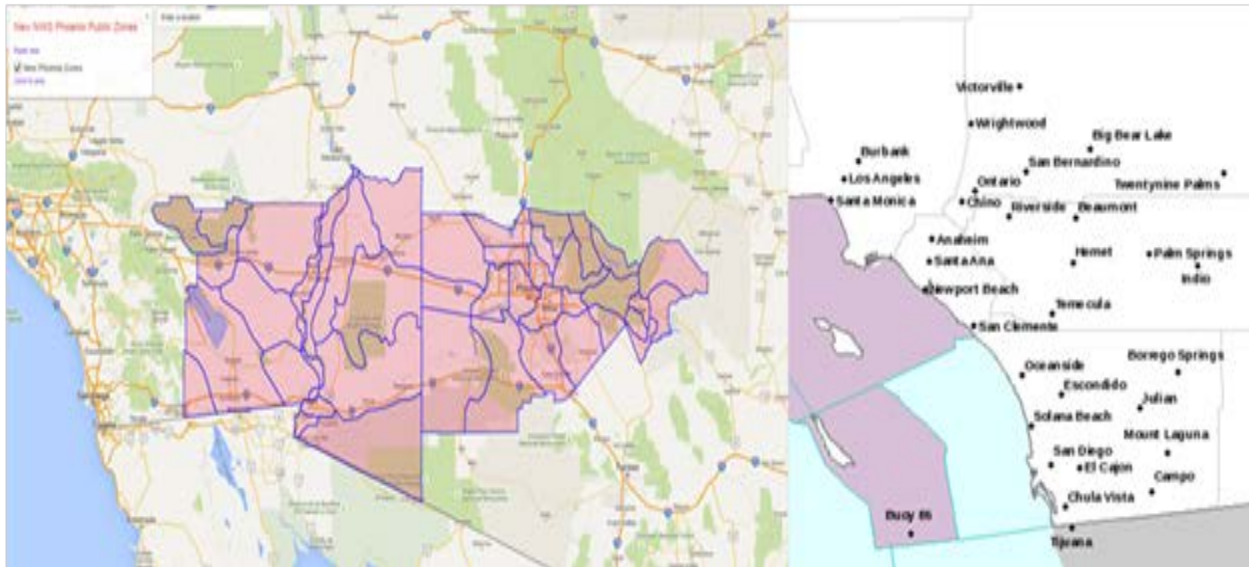


Fig C-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE C-2
IMPERIAL COUNTY WEB POSTING
OF POTENTIAL ELEVATED PM CONCENTRATIONS

Advisory Events

The information herein is NOT intended for use as a weather forecast. The Air District DOES NOT forecast but solely compiles information from both the Phoenix and San Diego National Weather Offices to relay information concerning potential changes in ambient air concentrations that may impact the public.

July 9 2018	
Be Advised	
<p>High wind levels have the potential to suspend particulate matter into the air. High levels of PM10 may pose an impact to public health. It is recommended that active children and adults, and people with respiratory disease, such as asthma, limit their outdoor activities.</p> <p>Potential increases in PM₁₀ concentrations may increase to moderate or unhealthy level.</p>	
Imperial County Weather Synopsis	
<p>IMPERIAL COUNTY WINDS: Winds across Imperial County will range from the south to southeast from 5 to 10 mph, with winds as high as 20 mph in some areas. Many areas of the county will see patchy blowing dust during the night time and after midnight.</p> <p>WEATHER SAN DIEGO OFFICE MONSOONAL THUNDERSTORMS POSSIBLE THIS WEEK Temperatures will slowly decrease the next few days. Monsoonal moisture will bring a chance of showers and thunderstorms each day, mainly over the mountains and deserts. There will be a greater chance of more significant rainfall across more areas on Tuesday and Wednesday as moisture increases with passing easterly waves. Some drying and warming is possible late in the week.</p> <p>SAN DIEGO DESERTS-BORREGO SPRINGS Blowing Dust Advisory remained in effect until 5 a.m. Monday, July 9. Areas of blowing dust in the morning. Areas of winds east 15 mph in the morning becoming light. Chance of measurable precipitation 20 percent. For tonight, areas of winds west 15 to 20 mph with gusts to 30 mph becoming northeast with gusts to 25 mph overnight. Chance of measurable precipitation 20 percent.</p> <p>WEATHER PHOENIX OFFICE MONSOONAL MOISTURE COULD BRING GUSTY OUTFLOW WINDS THIS WEEK Monsoon moisture levels will continue to remain high enough this week to bring daily thunderstorm chances to the bulk of the region. Timing is still a bit difficult, but storm activity should affect the Phoenix area sometime late this afternoon and early evening before moving westward into the Lower Colorado River Valley by mid to late evening. An upper level trough moving through today and early Tuesday should enhance monsoon activity creating better chances for more widespread storms than a typical monsoon day. Temperatures will continue to trend downward through the middle of the week and then level off a few degrees below normals.</p>	
Weather Story Phoenix Station	Weather Story San Diego Station


...Thunderstorm Chances to Increase Tonight into the Early Part of the Week...

Summary


The rather dry and low grade monsoon regime will be replaced by a potentially wetter and more active period beginning tonight and continuing into midweek

Impacts


- Gusty damaging outflow winds
- Dense Blowing Dust
- Heavy rains with flooding
- Cooler high temperatures



When Strong Winds Arrive Stay Inside



When Thunder Roars Go Indoors



Turn Around Don't Drown

MORE THUNDERSTORMS EXPECTED

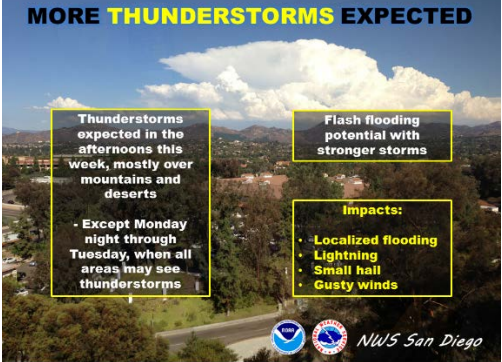
Thunderstorms expected in the afternoons this week, mostly over mountains and deserts

- Except Monday night through Tuesday, when all areas may see thunderstorms

Flash flooding potential with stronger storms




Impacts:

- Localized flooding
- Lightning
- Small hail
- Gusty winds



Weather Forecast Office
San Diego, CA

7/8/2018 7:52 pm PDT

Follow Us:   

weather.gov/SanDiego

Fig C-2: A copy of the ICAPCD webpage advisory

FIGURE C-3
IMPERIAL COUNTY WEB POSTING
OF POTENTIAL ELEVATED PM CONCENTRATIONS

Advisory Events

The information herein is NOT intended for use as a weather forecast. The Air District DOES NOT forecast but solely compiles information from both the Phoenix and San Diego National Weather Offices to relay information concerning potential changes in ambient air concentrations that may impact the public.

July 9 2018
Be Advised
<p>High wind levels have the potential to suspend particulate matter into the air. High levels of PM10 may pose an impact to public health. It is recommended that active children and adults, and people with respiratory disease, such as asthma, limit their outdoor activities.</p> <p>Potential increases in PM₁₀ concentrations may increase to moderate or unhealthy level.</p>
Imperial County Weather Synopsis
<p>IMPERIAL COUNTY</p> <p>WINDS: Winds across Imperial County will range from the south to southeast from 5 to 10 mph, with winds as high as 20 mph in some areas. Many areas of the county will see patchy blowing dust during the night time and after midnight.</p> <p><u>WEATHER SAN DIEGO OFFICE</u></p> <p>MONSOONAL THUNDERSTORMS POSSIBLE THIS WEEK</p> <p>Temperatures will slowly decrease the next few days. Monsoonal moisture will bring a chance of showers and thunderstorms each day, mainly over the mountains and deserts. There will be a greater chance of more significant rainfall across more areas on Tuesday and Wednesday as moisture increases with passing easterly waves. Some drying and warming is possible late in the week.</p> <p><u>COACHELLA VALLEY DUST ADVISORY</u></p> <p>A PM10 Dust Advisory is in effect for Monday, July 09, 2018 in the Coachella Valley (Riverside County portion of the Salton Sea Air Basin) and in Riverside, San Bernardino and eastern Los Angeles Counties in the South Coast Air Basin. Outflows from thunderstorms over the southwestern U.S. deserts brought airborne dust and sand into the South Coast Air Basin. This has caused Hazardous air quality in the Pomona-Walnut Valley (Forecast Area 10), Coachella Valley (Forecast Area 30), Eastern Riverside County (Area 31), Northwest San Bernardino Valley (Forecast Area 32), Southwest San Bernardino Valley (Forecast Area 33), and West San Bernardino Mountains (Forecast Area 36). PM10 concentrations have reached Very Unhealthy levels in the Metropolitan Riverside County (Forecast Area 23), Perris Valley (Forecast Area 24), Lake Elsinore (Forecast Area 25), Temecula Valley (Forecast Area 26), Anza Valley (Forecast Area 27), and the Hemet/San Jacinto Valley (Forecast Area 28). Other areas throughout Riverside and San Bernardino Counties and through the San Gabriel Valley have experienced Unhealthy PM10 concentrations and additional areas may experience elevated particulate levels as this dust event continues to move through the Basin. The Unhealthful conditions may linger throughout the day on Monday. PM10 concentrations are expected to drop by Tuesday morning.</p> <p><u>WEATHER PHOENIX OFFICE</u></p> <p>MONSOONAL MOISTURE COULD BRING GUSTY OUTFLOW WINDS THIS WEEK</p> <p>Monsoon moisture levels will continue to remain high enough this week to bring daily thunderstorm chances to</p>

the bulk of the region. Timing is still a bit difficult, but storm activity should affect the Phoenix area sometime late this afternoon and early evening before moving westward into the Lower Colorado River Valley by mid to late evening. An upper level trough moving through today and early Tuesday should enhance monsoon activity creating better chances for more widespread storms than a typical monsoon day. Temperatures will continue to trend downward through the middle of the week and then level off a few degrees below normals.


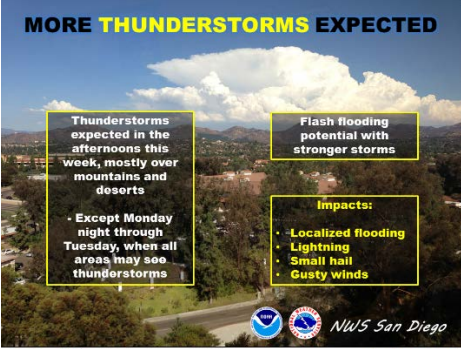




Weather Story Phoenix Station	Weather Story San Diego Station
<p>...Thunderstorm Chances to Increase Tonight into the Early Part of the Week...</p> <div> <div> <p>Summary</p> <p>The rather dry and low grade monsoon regime will be replaced by a potentially wetter and more active period beginning tonight and continuing into midweek</p> </div> <div> <p>Impacts</p> <ul style="list-style-type: none"> • Gusty damaging outflow winds • Dense Blowing Dust • Heavy rains with flooding • Cooler high temperatures </div> </div> <div>  <p>When Strong Winds Arrive Stay Inside</p> <p>When Thunder Roars Go Indoors</p> <p>Turn Around Don't Drown</p> </div>	<p>MORE THUNDERSTORMS EXPECTED</p>  <div> <div> <p>Thunderstorms expected in the afternoons this week, mostly over mountains and deserts</p> <ul style="list-style-type: none"> - Except Monday night through Tuesday, when all areas may see thunderstorms </div> <div> <p>Flash flooding potential with stronger storms</p> <p>Impacts:</p> <ul style="list-style-type: none"> • Localized flooding • Lightning • Small hail • Gusty winds </div> </div> <div>  <p>Weather Forecast Office San Diego, CA 7/8/2018 7:52 pm PDT</p> <p>Follow Us:    weather.gov/SanDiego</p> </div>

Fig C-3: A copy of the ICAPCD webpage advisory

FIGURE C-4 PRELIMINARY STORM REPORT PAGE 1

Preliminary Storm Report for 9 July 2018

[Weather.gov](#) > [NWS Phoenix](#) > Preliminary Storm Report for 9 July 2018

NWS Phoenix
Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

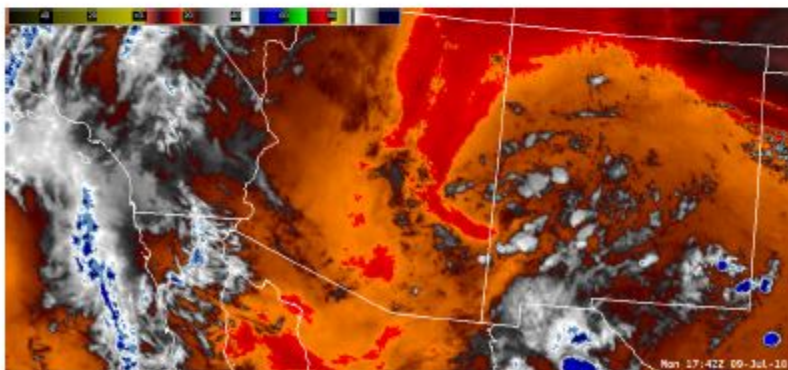
Storm Report for 9 July 2018

By NWS Phoenix -- last updated 8 PM 14 July 2018



Dust storm along Interstate 8 near Dateland, AZ. Courtesy Trey Greenwood.

Widespread thunderstorm activity occurred across Maricopa and Pinal Counties during the afternoon of Monday 9 July 2018. It was a classic setup for severe weather across the lower deserts. Due to outflow winds from the previous day, the air across the region was very moist, warm, and unstable. Surface dew points were generally in the 60s °F. Afternoon temperatures climbed into the 100-105 °F range. Meanwhile, a strong upper level low was spinning westward across New Mexico toward Arizona. This cause winds blowing from the east in the upper parts of the atmosphere to be much stronger than usual. The stage was set for storms to develop over the higher terrain of Arizona and quickly move into the lower elevations. Given the degree of instability and strong winds to move the storms, damaging winds and heavy rain were very likely. [Click here](#) to view upper level maps for 12Z Monday 9 July 2018 from the NWS Storm Prediction Center.

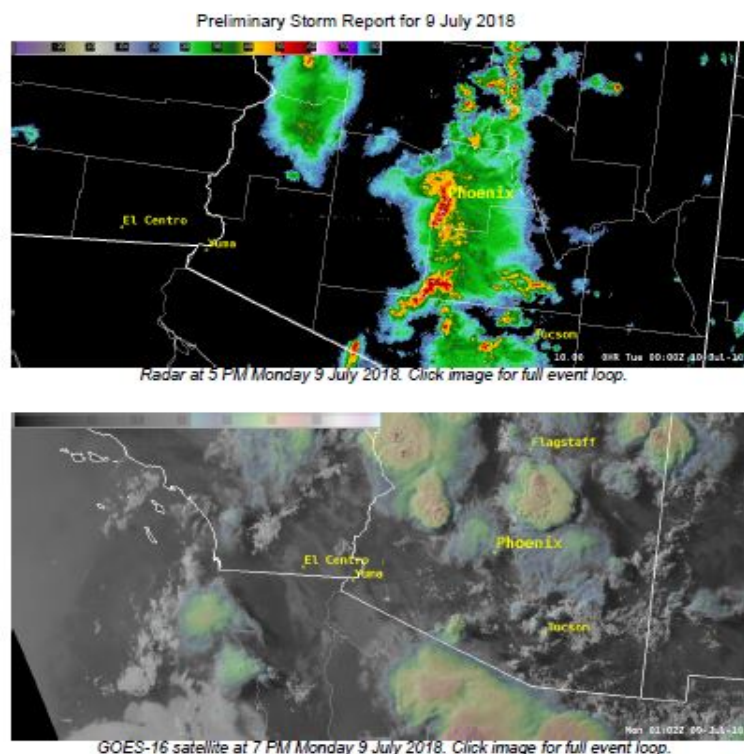


GOES-16 Low-Level Water Vapor Channel at 10:42 AM on Monday 9 July 2018. [Click image for loop.](#)

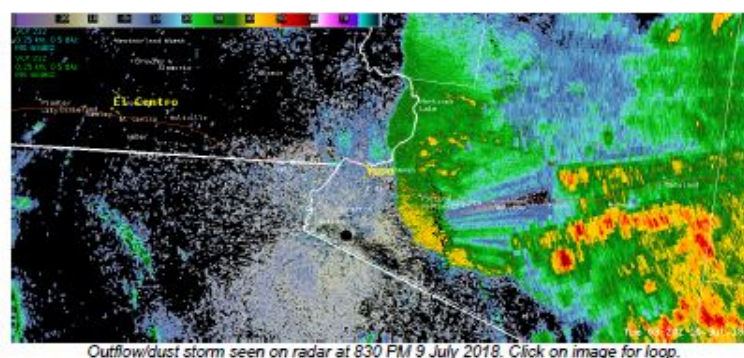
Showers and thunderstorms quickly developed over the mountains of eastern Arizona early during the afternoon hours. With the strong easterly winds in the middle of the atmosphere, these storms were ushered westward toward the lower elevation deserts. Once they reached the deserts, the storms ingested the unstable air in place and exploded. The strongest storms developed over the far East Valley (a storm which tracked west across Mesa, causing considerable damage) and the far northeast valley. Outflow winds from these storms raced to the south and west, colliding and causing continual invigoration of the storms.

Fig C-4: A Preliminary Storm Report issued by the Phoenix NWS office on July 9, 2018 that discussed a Wall of Dust and other effects of the monsoon conditions throughout Arizona, the source area and later in Imperial County

FIGURE C-5 PRELIMINARY STORM REPORT PAGE 2



As the thunderstorms began to move past Phoenix, they began to weaken (though not disappear) as the air was not quite as unstable. From start to finish, approximately 8,000 cloud-to-ground lightning strikes and 45,000 in-cloud flashes were generated by these storms. The potent outflow from the activity caused a considerable dust storm to develop in the open deserts. This pronounced wall of dust traveled clear across the Sonoran Desert, a distance of roughly 200 miles.



- [Local Storm Report for this event](#)
- **Media Reports**
 - Videos show severe thunderstorm making its way across the Valley ([KTAR](#))
 - Several parts of Phoenix area see more than 1 inch of rain as severe storm hits ([AZCentral](#))
 - Heavy rain, dust storm pounds the Valley, leaving damages in its wake ([FOX10](#))
 - 'One of the most incredible sights': Monster dust storm sweeps across southern Arizona ([Washington Post](#))
 - Wall of dust, powerful monsoon storms slam Phoenix area ([CBS News](#))

Fig C-5: A Preliminary Storm Report issued by the Phoenix NWS office on July 9, 2018 that discussed a Wall of Dust and other effects of the monsoon conditions throughout Arizona, the source area and later in Imperial County

FIGURE C-6 PHOENIX WEATHER STORY JULY 8, 2018


NWS Forecast Office Phoenix, AZ
Weather.gov > NWS Phoenix

NWS Phoenix
Weather Forecast Office


Current Hazards Current Conditions Radar Forecasts Rivers and Lakes Climate and Past Weather Local Programs

...Increased Thunderstorm Chances Today Into the Early Part of This Week...


<p style="text-align: center;"><u>Summary</u></p> <p>Much higher moisture levels starting today will result in a widespread threat of storms each day through at least mid week.</p>	<p style="text-align: center;"><u>Impacts</u></p> <ul style="list-style-type: none"> Gusty damaging outflow winds Locally heavy rains with flooding Dense blowing dust Much cooler high temperatures
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When Strong Winds
Arrive Stay Inside



When Thunder Roars
Go Indoors



Turn Around
Don't Drown

Easterly flow around a strong area of high pressure will continue to feed monsoon moisture into southern Arizona. As moisture increases, so do the chances for monsoon thunderstorms and their associated impacts. Look for good thunderstorm chances today into the early part of the week. Best thunderstorm chances will likely focus over south-central Arizona. As storms develop, look for strong gusty outflow winds over 50 mph, dense blowing dust, locally heavy rainfall (and associated flooding) and deadly lightning. High temperatures will also be cooling off as moisture increases and clouds become more widespread.

[Hide Caption](#)

Fig C-6: A Weather Story Forecast issued by the NWS Phoenix office depicting monsoon conditions during the coming week

FIGURE C-7
SAN DIEGO WEATHER STORY JULY 8, 2018

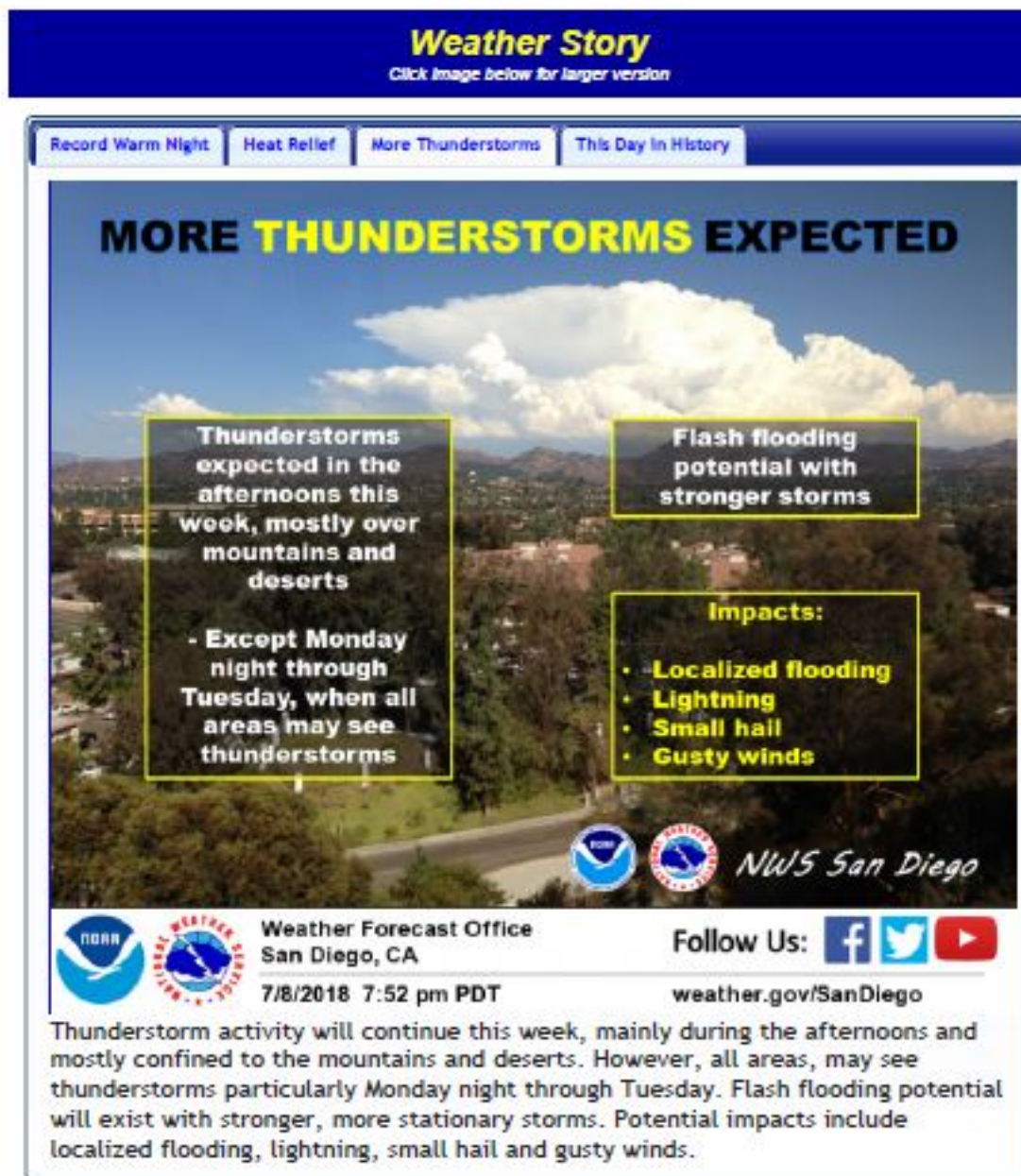


Fig C-7: A Weather Story Forecast issued by the NWS San Diego office depicting thunderstorm conditions during the coming week

**FIGURE C-8
AIR QUALITY INDEX**

Air Quality Index Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

Fig C-8: The Air Quality Index AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country. Source:

<https://airnow.gov/index.cfm?action=aqibasics.aqi>

FIGURE C-9 DAILY WEATHER AND AG BURNING INFORMATION

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Monday, July 9, 2018

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	90	SSE 8	10
8 AM	93	SSE 5	10
9 AM	97	CALM	10
10 AM	101	-	10
11 AM	102	SE 9	10
NOON	105	ESE 8	10
1 PM	108	ESE 10	10
2 PM	108	SE 15	10
3 PM	107	ESE 13	10
4 PM	106	ESE 13	10
5 PM	110	SSE 11	10
6 PM	109	CALM	10
7 PM	108	SE 13	10

Max. Temperature yesterday was 111 degrees

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts

High Today 103 to 108

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	1:00 pm
Forecast of Maximum Mixing Height	- feet	4,429 feet
Forecast for Morning surface winds	SE 5-15 mph	SSE 5 mph
Forecast for afternoon surface winds	SE 5-15 mph	SSE 5-10 mph
Forecast for evening surface winds	SSE 5-10 mph	
Forecast 10 AM - 3 PM transport winds	SSE 10-20 mph	

Comments/Complaints: Showers and Thunderstorms possible today in Imperial County with High Dew Point!!

Burn Hours _____ ARB No Burn Day XX District called No Burn Day XX

Total actually burned today _____ acres Crops burned _____

Int _____ CM _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011

Fig C-9: Is a copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on July 9, 2018

FIGURE C-10

IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the


Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

09/20.

all in the year 2019


I certify (or declare) under penalty of perjury that the foregoing is true and correct.


SIGNATURE

Name of Account: I C AIR POLLUTION CONTROL
Order Number: 11324960
Ad Number: 31574362

* Printer, Foreman of the Printer, or Principal Clerk of the Printer
Date: 21 st day of September, 2019.
at El Centro, California.

This space is for the County Clerk's Filling Stamp:


AIR POLLUTION CONTROL DISTRICT

NOTICE OF AVAILABILITY
OF THE DEMONSTRATION OF THE OCCURRENCE
OF SEVEN EXCEPTIONAL EVENTS (EE)

The Imperial County Air Pollution Control District (Air District) has prepared seven Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion of measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a continuous Federal Equivalent Method monitor (FEM) are the seven Draft EE's.

June 23, 2018 Niland-163 µg/m3;	June 28, 2018 Niland-173 µg/m3;	July 9, 2018 Brawley-230 µg/m3; Calexico-307 µg/m3; El Centro-256 µg/m3; Niland-181 µg/m3; Westmorland-165 µg/m3;
August 20, 2018 El Centro-162 µg/m3	October 3, 2018 Westmorland-169 µg/m3	
October 6, 2018 Brawley-181 µg/m3	November 20, 2018 Niland-331 µg/m3; Westmorland-296 µg/m3;	

The public and all interested parties are encouraged to review and comment on the seven Draft EE's listed above. These demonstrations provide the supporting evidence that on the days indicated for 2018 Air District air monitors were affected by transported elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event suspended and transported PM10 into the region affecting areas within San Diego, Riverside, Yuma and Imperial counties. The seven Draft EE's provide the scientific justification for the requested exclusion. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is October 20, 2019 by close of business.

The seven Draft EE's for the days listed above are available for download at the Air District website at <https://apcd.imperialcounty.org/public-notices/> (under Public Notices; Exceptional Events). To view a hard copy of any of the seven Draft EE's, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Souci

L163 S15

Fig C-10: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for July 9, 2018. The date for closing comments was October 20, 2019

FIGURE C-11

IMPERIAL COUNTY COMMENTS REGARDING THE JULY 9 2018 EE DEMONSTRATION

Awaiting Final Comment Period