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JANUARY 26, 2023***

***Operations and Services
Public Weather Services, NWSPD 10-5***

WFO SEVERE WEATHER PRODUCTS SPECIFICATION

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WFO Severe Weather Products Specification

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1. Introduction

This procedural instruction describes the severe convective weather products issued by the National Oceanic and Atmospheric Administration's (NOAA's) National Weather Service (NWS) Weather Forecast Offices (WFOs). It provides guidelines associated with these products, specifies detailed content as needed, and outlines the format for each product type.

2. Severe Thunderstorm Warning (product category SVR)

2.1 Mission Connection

Severe Thunderstorm Warnings (SVRs) are issued to protect lives and property. WFO forecasters issue SVRs to provide the public, media, and emergency managers with advance notice of the combination of damaging wind gusts, large hail, and possible tornado development.

2.2 Issuance Guidelines

2.2.1 Creation Software

WFOs will use WarnGen to issue SVRs.

2.2.2 Issuance Criteria

WFOs should issue SVRs when there is radar or satellite indication and/or reliable reports of wind gusts equal to or in excess of 50 knots (58 miles per hour (mph)) and/or hail size of one inch (U.S. quarter-size) in diameter or larger. WFOs should issue SVRs for a convective cell or squall with little or no lightning that otherwise meets or exceeds the hail and/or wind warning criterion. A SVR should also be issued for potential tornado development in thunderstorms that also are forecasted to meet or exceed the minimum damaging wind gust and/or large hail criterion.

2.2.3 Issuance Time

SVRs are non-scheduled, event-driven products.

2.2.4 Valid Time

Valid times should be within 30 to 60 minutes of issuance. For thunderstorms that are expected to remain severe beyond the valid time of the original warning, WFOs should issue a new warning.

2.2.5 Product Expiration Time

The product expiration time is the end of warning valid time.

2.3 Technical Description

SVRs will follow the Impact-Based Warning (IBW) format and content described in this section.

2.3.1 Universal Geographic Code (UGC) Type

County (Zone for Alaska and parts of Pacific Region).

2.3.2 Mass News Disseminator (MND) Broadcast Line

For states that require Emergency Alert System (EAS) activation, SVRs should include the broadcast line: “BULLETIN - EAS ACTIVATION REQUESTED”. If a state does not require EAS activation for SVRs, the broadcast line will read: “BULLETIN – IMMEDIATE BROADCAST REQUESTED”. The term “BULLETIN” is used when information is sufficiently urgent to warrant breaking into a normal broadcast.

2.3.3 MND Header

The SVR MND header is “Severe Thunderstorm Warning”.

2.3.4 Content

The following guidelines apply to the issuance of SVRs by WFOs:

- a. Writing Style:
 - 1) SVRs will be in Letter Case with the exception of section headers, coded tag lines, and a special phrase for a Destructive storm(s) designed to be in Uppercase.
 - 2) SVRs will follow a standard bullet style format, with the third bullet providing sub-category information that distinguishes the hazard, source of information, and potential impacts.
 - 3) Locations used to identify the threatened areas should be larger towns and other familiar landmarks.
 - 4) Names of states and counties (or parts of counties) should be spelled out.
 - 5) Concise call-to-action (CTA) statements should be included.
 - 6) The WFO designated on-duty shift leader/supervisor may discontinue CTA statements in warnings during widespread severe weather outbreaks.
 - 7) Mileage markers may be used as reference points when a storm is occurring or forecast to move over a major highway but limited to five reference points or less.
 - 8) Named stadiums, arenas, or venues can be included in the locations section, as long as the residing city name is included as a separate location entry.
- b. Inclusion of Reports of Severe Events or Damage:
 - 1) Recent credible reports of severe hail, wind gusts, and/or damage due to hail or high winds that are received and validated in a timely manner should be included.
- c. Pathcasts:
 - 1) In general, warnings may contain ‘pathcasts’ (specific forecasts of location and arrival time) provided the forecaster has very high confidence in the movement (direction and speed) of the hazardous weather.
 - 2) Any ‘pathcast’ issued should use terms of uncertainty appropriate to the state of the science (e.g. ‘the severe thunderstorm will be near [location] around [time]’).
 - 3) Warnings that contain ‘pathcast’ information should be followed by frequent (approximately every 15 minutes) Severe Weather Statements (SVSs). This ensures that users receive the most recent information concerning the location and movement of the hazardous weather.

- d. Number and Divisions of Counties/Parishes:
 - 1) WFOs should limit the number of counties/parishes in a SVR to 12 or less.
 - 2) If separating a county/parish into divisions, WFOs should use no more than a nine part division (i.e., northeast, east central, etc.) in coordination with state and local emergency managers and other partners.

- e. Severe Thunderstorm Moves Over Water:
 - 1) If a severe thunderstorm moves over coastal waters, a Special Marine Warning (SMW) will be issued (see [NWS Instruction \(NWSI\) 10-313](#) for details on SMWs and issuance criteria).

- f. Combining Warnings:
 - 1) WFOs should keep Severe Thunderstorm and Flash Flood Warnings separate and consider utilizing CTA statements to indicate heavy rainfall in Severe Thunderstorm Warnings.

- g. Tornado Watch Information:
 - 1) When a Tornado Watch is in effect for the warned area, WFOs should add this selection in the “PRECAUTIONARY/PREPAREDNESS ACTIONS” section, along with the additional pertinent CTA statements.
 - 2) The format for this information may either read as a generic statement (e.g., “A tornado watch remains in effect for the warned area.”), or the more explicit statement (e.g., “A tornado watch remains in effect until 10 PM EDT for Southeastern Alabama.”).
 - 3) This consideration is only valid for SVRs and their updates, through the SVS.

2.3.4.1 Thunderstorm Damage Threat Categorizations

Considerable and Destructive warning categories will invoke the “THUNDERSTORM DAMAGE THREAT” coded tag line at the bottom of the warning and will note the category name. SVRs will include one of the three following impact-based categorizations based on the known or perceived damage threat.

- a. Base (default; no associated coded tag line). This categorization does not invoke the “THUNDERSTORM DAMAGE THREAT” coded tag, nor does the term “base” appear in the warning. This terminology refers to the default or uncategorized threshold for a warning. Minimum trigger wind/hail criteria for this level is the same as minimum severe wind (50 knots/58 mph) and/or hail size of one inch (U.S. quarter-size) in diameter.

- b. Considerable. The trigger for a Considerable warning is wind/hail criteria of at least 70 mph winds and/or hail size of one and three-quarter inches (golf ball-size) in diameter.

- c. Destructive. The trigger for a Destructive warning is wind/hail criteria of at least 80 mph winds and/or hail size of two and three-quarter inches (baseball-size) in diameter.

2.3.5 Format

The SVR format will contain this information in the following order, through the IBW format (see Figure 1):

First Bullet – Type of warning; and warning location(s);

Second Bullet – Expiration time of warning;

Third Bullet – Time; notation of “severe thunderstorm(s)” and the physical distance (in miles) from the closest location; storm motion. If edits of more than 10 mph or more than 45 degrees are required for the storm motion, the forecaster should adjust the track in WarnGen, rather than manually edit the text, in order to keep in agreement with TIME...MOT...LOC line.

* Special insertion of a phrase that denotes the specific city/location or cities/locations, for instances when the “Destructive” Thunderstorm Damage Threat categorization is invoked. For a single storm, this line will read: “THIS IS A DESTRUCTIVE STORM FOR [IMPACTED LOCATION(S)].” For a line or cluster of storms, this line will read: “THESE ARE DESTRUCTIVE STORMS FOR [IMPACTED LOCATION(S)].”

The specifics on the inserted city/location names are as follows:

City/location names should be:

- manually added by the forecaster in all Uppercase text.
- limited to three specific locations, prioritizing the locations that are nearest to or will be most impacted by the destructive wind/hail threats.
- generalized to a locally-recognizable area if the threatened area is much larger than one, two, or even three cities/locations.
 - For largely rural areas or areas with many smaller localities, a combination of location names could be used (e.g., “...MEDICINE LODGE AND RURAL AREAS OF BARBER COUNTY.”) in all Uppercase text.
 - For all or portions of metropolitan areas expected to be impacted, use locally-recognizable names (e.g., “...MUCH OF THE NORTHERN COLUMBUS METRO AREA, INCLUDING DUBLIN AND WORTHINGTON.” or “DUBLIN, WORTHINGTON, AND MUCH OF THE NORTHERN COLUMBUS METRO AREA.”).

HAZARD (IBW Sub-Section 1). Basis for warning (including recent credible reports if available); forecast or observed thunderstorm wind gusts and maximum hail sizes.

SOURCE (IBW Sub-Section 2). Select one of these accepted source types (radar, trained weather spotters, law enforcement, emergency management, broadcast media, or public). If a qualifying report of severe weather occurs from the warned storm within the time span of the valid area and time warning, it should be added in a separate sentence in this section, after the source type (e.g., “At 4:55 PM CDT, tennis ball size hail was reported 3 miles northeast of Emporia.”).

IMPACT (IBW Sub-Section 3). This section contains predetermined statements that are based on the selected wind speed and/or hail size attribute. Default and designated alternative impact statements are as follows in Table 1. WFOs may make adjustments to the default statements based on local and situational considerations.

Table 1: Impact Statements for Severe Thunderstorm Warnings

Severe Thunderstorm Attribute	Impact Statement(s) [1) Sentence 1. 2) Sentence 2. ... n) Sentence n. n = last sentence] Use all numbered statements in the order they appear.
Wind – 60 mph	1) Expect damage to roofs, siding, and trees. * 1) Tree and power line damage is likely. * 2) Expect damage to some roofs, siding, carports, and fences. (this alternative option should include both statements)
Wind – 70 mph	1) Expect considerable tree damage. 2) Damage is likely to mobile homes, roofs, and outbuildings. * 1) Expect considerable tree and power line damage. * 2) Damage is likely to mobile homes, roofs, screen enclosures, carports, and outbuildings.
Wind – 80 mph	1) Flying debris will be dangerous to those caught without shelter. 2) Mobile homes will be heavily damaged. 3) Expect considerable damage to roofs, windows, and vehicles. 4) Extensive tree damage and power outages are likely. * 1) Flying debris will be dangerous to those caught without shelter. * 2) Mobile homes will likely be heavily damaged. * 3) Considerable damage to roofs, windows, and vehicles is likely. * 4) Expect considerable tree and power line damage.
Wind – 90 mph	1) You are in a life-threatening situation. 2) Flying debris may be deadly to those caught without shelter. 3) Mobile homes will be heavily damaged or destroyed. 4) Homes and businesses will have substantial roof and window damage. 5) Expect extensive tree damage and power outages. * 1) You are in a life-threatening situation. * 2) Flying debris may be deadly to those caught without shelter. * 3) Mobile homes will be heavily damaged or destroyed. * 4) Homes and businesses will likely have substantial roof and window damage. * 5) Expect extensive tree damage and power line damage with widespread power outages.
Wind – 100 mph	1) You are in a life-threatening situation. 2) Flying debris may be deadly to those caught without shelter. 3) Mobile homes will be destroyed.

	<p>4) Expect considerable damage to homes and businesses. 5) Expect extensive tree damage and power outages.</p> <p>* 1) You are in a life-threatening situation. * 2) Flying debris may be deadly to those caught without shelter. * 3) Mobile homes will be heavily damaged or destroyed. * 4) Homes and businesses will likely have substantial roof and window damage. * 5) Expect extensive tree damage and power line damage with widespread power outages.</p>
Hail – Quarter-Size (1.00”) up to Ping Pong Ball-Size (1.50”)	<p>1) Damage to vehicles is expected.</p> <p>* 1) Damage to vehicles is likely.</p>
Hail – Golf Ball-Size (1.75”) to Tennis Ball-Size (2.50”)	<p>1) People and animals outdoors will be injured. 2) Expect damage to roofs, siding, windows, and vehicles.</p> <p>* 1) People and animals outdoors will likely be injured. * 2) Expect damage to roofs, siding, screen enclosures, windows, and vehicles.</p>
Hail – Baseball-Size (2.75 Inches) or greater	<p>1) People and animals outdoors will be severely injured. 2) Expect shattered windows, extensive damage to roofs, siding, and vehicles.</p> <p>* 1) Severe injuries are likely with hail this size. * 2) Expect shattered windows, extensive damage to roofs, siding, screen enclosures, and vehicles.</p>

* Note: Alternative impact statements may be utilized per Regional discretion.

Fourth Bullet – Locations to be impacted during the warning (see Figure 1);

PRECAUTIONARY/PREPAREDNESS ACTIONS – One or two short, concise, action-oriented CTA statements should be included. If CTAs are included under the PRECAUTIONARY/PREPAREDNESS ACTIONS, then two ampersands (&&) are required as a dissemination marker after the last CTA (see [NWSI 10-1701](#), Section 5.5 for details on CTAs and markers). Credible reports of hail size and wind gusts, received in a timely manner, should be entered as part of the basis statement (first IBW subsection “HAZARD”, under the third bullet), instead of the precautionary/preparedness actions section. If a Tornado Watch is in effect for the warned area, that information should be denoted in this section.

LAT...LON – The warning area polygon as described by a series of latitude/longitude coordinates in decimal degrees with precision to hundredths (two (2) decimal places). The polygon will contain as few as three and as many as twenty vertices.

Partial County Alerting (PCA) – For a partitioned county and a given warning, if a WFO invokes PCA for NOAA Weather Radio All Hazards (NWR) and the Emergency Alert System (EAS), a Partition Tag line will be located in the block below the double ampersand (&&) sign, immediately after the LAT...LON line and before the

TIME...MOT...LOC line or IBW Tags. Each element of the Partition Tag Line will use a six digit code corresponding to the six digit Specific Area Message Encoder (SAME) location code, following the mandatory NWS and Federal Communications Commission (FCC) PSSCCC nomenclature, where P=partition number, SS=state and CCC=county. For non-partitioned counties, there is no Partition Tag line.

TIME...MOT...LOC – The tracking information gives the location and movement of the event being tracked. Examples of such events could include the leading edge of a gust front or the leading edge of a hail core. The format (see Figure 1) includes the time of the observed event in Coordinated Universal Time (UTC), followed by a three digit direction of movement in degrees (direction the event is moving from), followed by speed of movement in knots, and finally the location of the event as a single latitude/longitude coordinate, or in the case of a line, two or more latitude/longitude coordinates.

IBW Coded Tag Lines – This section details the required and optional IBW-coded tag lines according to each hazard type. These outputs are linked to options made within the WarnGen product generation application and are not editable in the warning text. All tag lines and information wording will be in Uppercase. The specifications for IBW-coded tag choices are as follows:

TORNADO...POSSIBLE

(Optional; only one choice for this tag [POSSIBLE]. Select only if the severe thunderstorm is suspected to have the potential to produce a tornado but forecaster confidence does not warrant a Tornado Warning at the issuance time of the SVR). If this option is chosen, there must also be at least one of the other SVR criterion (wind and/or hail) selected.

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE/DESTRUCTIVE

(Will only appear for the selection of either of these two options [CONSIDERABLE; DESTRUCTIVE], based on set minimum thresholds of either wind, hail, or both and will reflect the highest tier of damage threat. If the DESTRUCTIVE tag is invoked, then the CONSIDERABLE tag will not be used, as it is a lower tier category. When the DESTRUCTIVE tag for wind is used, it will place the phrase: “This is an EXTREMELY DANGEROUS SITUATION.” within the default CTA in the PRECAUTIONARY/PREPAREDNESS ACTIONS section.).

HAIL THREAT...RADAR INDICATED/OBSERVED

(Required; based on selection from the “HAZARD” IBW sub-section). Can be a different selection from the Wind Threat coded tag selection. Can also be “Radar Indicated” despite including a validated report of severe hail within the warned area, if there is radar-based indication that larger hail is possible.

MAX HAIL SIZE...X.XX IN

(Required; X.XX IN = value of maximum expected/reported hail size, in inches, from above in the “HAZARD” warning basis section; can be 0.00 IN if no hail is expected or a lower value of hail size than the minimum SVR criteria, e.g., <.75 IN, if the minimum

SVR wind criterion is met.).

WIND THREAT...RADAR INDICATED/OBSERVED

(Required; based on selection from the “HAZARD” IBW sub-section). Can be a different selection from the Wind Threat coded tag. Can also be “Radar Indicated” despite including a validated severe wind speed report within the warned area, if there is radar-based indication that higher wind speeds are possible.

MAX WIND GUST...XX MPH; XXX MPH for 100 MPH

(Required; XX MPH = value of maximum wind speed, in mph, from above in the “HAZARD” warning basis section, to the nearest 10 mph; can be 00 mph if no thunderstorm wind gusts are expected or it can be a lower value than the minimum SVR thunderstorm wind gust criteria, e.g. <50 MPH, if the minimum SVR hail size criterion is met. A third digit would be added in the event of a 100 mph selection.).

Note: IBW Coded Tag Order. The “TORNADO...POSSIBLE” tag will appear at the top of the listing, in all cases, if selected. Otherwise, the hail-related tags will be first, then wind-related tags. This section also pertains to the updates to a SVR, under the SVS.

```
WUaa5i cccc ddhhmm
SVRccc
STC001-002-ddhhmm-
/k.aaa.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/
```

```
BULLETIN - EAS ACTIVATION (or IMMEDIATE BROADCAST) REQUESTED
Severe Thunderstorm Warning (...CORRECTED as required)
National Weather Service City State
time am/pm time_zone day mon dd yyyy
```

The National Weather Service in City has issued a

- * Severe Thunderstorm Warning for...
 - Portion County one in section State...(List warned counties)
 - Portion County two in section State...(Number of counties will match number of counties in UGC Line)
- * Until hhmm AM/PM time_zone (Expiration time of warning)
- * At hhmm am/pm time_zone, warning basis, forward speed and direction.

```
THIS IS A DESTRUCTIVE STORM/THESE ARE DESTRUCTIVE STORMS FOR
[IMPACTED LOCATION/S]. (Upon invoking of the “Destructive”
thunderstorm damage threat IBW tag only; use up to three
city/location names).
```

HAZARD...Warning basis elements (wind speed and/or hail size).

SOURCE...(Choose one) Radar indicated, Trained weather spotters,

```

Law enforcement, Emergency management, Broadcast media, or Public.

    IMPACT...Statements will populate based on the selected severe
hazards in Table 1.

* Locations impacted include...
    Location #1, Location #2, Location #n. (n = variable number of
locations).

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements).

(Tornado watch information, if valid for the warned area).

&&

LAT...LON (Required list of latitude/longitude coordinate pairs
outlining the forecaster-drawn warning area)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx (lat/lon couplet(s))

TORNADO...POSSIBLE (will only appear if selected)
THUNDERSTORM DAMAGE THREAT...CONSIDERABLE/DESTRUCTIVE HAIL
THREAT...RADAR INDICATED/OBSERVED
MAX HAIL SIZE...X.XX IN (X.XX = value of maximum expected hail size,
in diameter, from the "HAZARD" warning basis section)
WIND THREAT...RADAR INDICATED/OBSERVED
MAX WIND GUST...XX MPH (XX = value of maximum expected wind speed
from the "HAZARD" warning basis section to the nearest 10 mph. XXX
MPH for 100 mph selection)

$$
FORECASTER NAME/NUMBER (OPTIONAL)

```

Figure 1. Severe Thunderstorm Warning Format

2.4 Updates, Amendments and Corrections

Updates and amendments are not applicable. WFOs will correct SVRs for significant grammatical errors, format or dissemination code errors. Corrected warnings will have the same time in the MND Header and the same Event Tracking Number (ETN) in the Valid Time Event Code (VTEC) line as the original warning. WFOs should issue SVSs to inform users of erroneous counties removed from original warnings (either in the Federal Information Processing Standards (FIPS)/Zone UGC code or in the body of the warning).

3. Tornado Warning (product category TOR)

3.1 Mission Connection

Tornado Warnings (TOR) are issued to protect lives and property. WFO forecasters issue TORs

to provide the public, media, and emergency managers with advance notice of tornadoes.

3.2 Issuance Guidelines

3.2.1 Creation Software

WFOs will use WarnGen to issue TORs.

3.2.2 Issuance Criteria

WFOs should issue TORs when there is radar indication and/or reliable reports of a tornado or developing tornado.

3.2.3 Issuance Time

TORs are non-scheduled, event-driven products.

3.2.4 Valid Time

Valid times should be 15 to 45 minutes from issuance. For a tornado expected to continue beyond the valid time of the original warning, WFOs should issue a new warning.

3.2.5 Product Expiration Time

The product expiration time is the end of warning valid time.

3.3 Technical Description

TORs will follow the IBW format and content described in this section.

3.3.1 UGC Type

County (Zone for Alaska Region and parts of Pacific Region).

3.3.2 MND Broadcast Line

TORs will include the broadcast line “BULLETIN - EAS ACTIVATION REQUESTED”. The term “BULLETIN” is used when information is sufficiently urgent to warrant breaking into a normal broadcast.

3.3.3 MND Header

The TOR MND header is “Tornado Warning”.

3.3.4 Content

The following guidelines apply to the issuance of TORs by WFOs:

- a. Writing Style:
 - 1) TORs will be in Letter Case with the exception of section headers, coded tag lines, the headline for a Tornado Emergency, special phrases for a Particularly Dangerous Situation, and special CTA statements designed to be in Uppercase.
 - 2) TORs will follow a standard bullet style format, with the third bullet providing

- sub-category information that distinguishes the hazard, source of information, and potential impacts.
- 3) Locations used to identify the threatened areas should be larger towns and other familiar landmarks.
 - 4) Names of states and counties (or parts of counties) should be spelled out.
 - 5) Concise CTA statements should be included.
 - 6) The WFO designated on-duty shift leader/supervisor may discontinue CTA statements in warnings during widespread severe weather outbreaks.
 - 7) Mileage markers may be used as reference points when a storm is occurring or forecast to move over a major highway but limited to five reference points or less.
 - 8) Named stadiums, arenas, or venues can be included in the locations section, as long as the residing city name is included as a separate location entry.
- b. Inclusion of Tornado or Tornado Damage Reports (3rd bullet):
- 1) Recent credible reports of a tornado, developing tornado, and/or recent credible reports of damage from a tornado that are received and validated in a timely manner should be included.
- c. Pathcasts:
- 1) In general, warnings may contain ‘pathcasts’ (specific forecasts of location and arrival time) provided the forecaster has very high confidence in the movement (direction and speed) of the hazardous weather.
 - 2) Any ‘pathcast’ issued should use terms of uncertainty appropriate to the state of the science (e.g., ‘the severe thunderstorm will be near [location] around [time]’).
 - 3) Warnings that contain ‘pathcast’ information should be followed by frequent (approximately every 15 minutes) SVSs. This ensures that users receive the most recent information concerning the location and movement of the hazardous weather.
- d. Number and Divisions of Counties/Parishes:
- 1) WFOs should limit the number of counties/parishes in a TOR to 12 or less.
 - 2) If separating a county/parish into divisions, WFOs should use no more than a nine part division (i.e., northeast, east central, etc.) in coordination with state and local emergency managers and other partners.
- e. Tornado Moves Over Water:
- 1) If a tornado moves over coastal waters, a SMW will be issued (see [NWSI 10-313](#) for details on SMWs and issuance criteria).
- f. Combining Warnings:
- 1) WFOs should keep Tornado and Flash Flood Warnings separate. If these warnings have spatial and/or temporal overlap, WFOs should update the Tornado Warning area (polygon) to represent the forward movement and progression of that threat, while minimizing the warned area coincident with the Flash Flood Warning area, as appropriate. In these situations with simultaneous threats, CTAs should be chosen carefully in each warning to ensure they do not contradict.

3.3.4.1 Tornado Damage Threat Categorizations

Considerable and Catastrophic warning categories will invoke the “TORNADO DAMAGE THREAT” coded tag line at the bottom of the warning and will note the category name. TORs will include one of the three following impact-based categorizations based on the known or perceived damage threat.

- a. Base (default; no associated coded tag line). This categorization does not invoke the “TORNADO DAMAGE THREAT” coded tag, nor does the term “base” appear in the warning. This terminology refers to the default or uncategorized threshold for a warning. However, a source of “OBSERVED” may be chosen for this level, without having to choose one of the two higher threat categorizations.
- b. Considerable. In situations when a tornado is occurring, whether from high confidence in evidential features in radar data and/or visual confirmation through reliable sources, WFOs have the option to express that the threat is considerable. Unlike the “catastrophic” categorization, a “considerable” categorization should be used in situations when there is lower confidence in the breadth or expanse of damage to interests and infrastructure out ahead of the tornado.
 - 1) After the “third bullet” basis section, “This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!” line will appear. No changes will be made to the headline structure.
- c. Catastrophic. In exceedingly rare situations, when a severe threat to human life and catastrophic damage from a tornado is imminent or ongoing, WFOs have the option to invoke the “catastrophic” threat categorization with concurrence of the designated on-duty shift leader/supervisor. Given the gravity of the product, it should never be a single forecaster’s choice, but rather a team decision with input from all relevant office staff.
 - 1) The headline addition of “...TORNADO EMERGENCY FOR [IMPACTED LOCATION(S)]...” will appear when this categorization is invoked.
 - 2) The additional headline will be on a separate line directly following the date/time line in the MND Header and before the first line that begins “The National Weather Service in [WFO location] has issued a”. This headline will be preceded and followed by a three dot ellipsis.
 - 3) “TORNADO EMERGENCY for [IMPACTED LOCATIONS]” is duplicated without ellipses in the last line of the third bullet, e.g., the basis statement of the warning. The “IMPACTED LOCATIONS” should be cities, towns, or well-known landmarks, and may include “AND SURROUNDING AREAS”. The term “RURAL AREAS” for a certain county or counties should only be used in addition to at least one named location (e.g. city, town, or well-known landmark).
 - 4) Use of the “Catastrophic” damage threat categorization and thereby the “TORNADO EMERGENCY” terminology is appropriate for the tornadic situation if all of the following criteria are met:
 - a. Severe threat to human life is imminent or ongoing.
 - b. Catastrophic damage is imminent or ongoing.
 - c. Visual (1) or Radar (2):

- (1) Reliable sources visually confirm tornado.
- (2) Radar imagery (e.g., debris ball signature) strongly suggests the existence of a damaging tornado.

3.3.5 Format

The TOR format will contain this information in the following order, through the IBW format (see Figure 2):

First Bullet - Type of warning; warning location(s);

Second Bullet - Expiration time of warning;

Third Bullet - Time, basis for warning, storm motion. If edits of more than 10 mph or more than 45 degrees are required, the forecaster should adjust the track in WarnGen, rather than manually edit the text, in order to keep in agreement with TIME...MOT...LOC line.

HAZARD (IBW Sub-Section 1)...Basis for warning (including recent credible reports, if available). Tornado will be mentioned first. When the tornado damage threat category is “Base” and the observed or maximum expected hail meets or exceeds SVR criteria, then the hail size will be included.

SOURCE (IBW Sub-Section 2)...Select one of these accepted source types (radar, trained weather spotters, law enforcement, emergency management, broadcast media, or public). If a qualifying report of severe weather occurs from the warned storm within the time span of the valid area and time warning, it should be added in a separate sentence in this section, after the source type (e.g. “At 3:18 PM EDT, a tornado was reported 6 miles southwest of Meridian.”).

IMPACT (IBW Sub-Section 3)...This section contains predetermined statements that are based on the selected attribute. Default and designated alternative impact statements are as follows in Table 2. WFOs may make adjustments to the default statements based on local and situational considerations.

Table 2: Impact Statements for Tornado Warnings

Tornado Impact Attribute	Impact Statement(s) [1) Sentence 1. 2) Sentence 2. ... n) Sentence n. n = last sentence] Use all numbered statements in the order they appear.
Landspout / Weak Tornado	1) Expect damage to mobile homes, roofs, and vehicles. * 1) Expect damage to mobile homes, roofs, screen enclosures, carports, vehicles and trees along the path of the tornado.
“Base” (default)	1). Flying debris will be dangerous to those caught without shelter. 2) Mobile homes will be damaged or destroyed.

	<p>3) Damage to roofs, windows and vehicles will occur. 4) Tree damage is likely.</p>
CONSIDERABLE	<p>1) You are in a life-threatening situation. 2) Flying debris may be deadly to those caught without shelter. 3) Mobile homes will be destroyed. 4) Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.</p>
CATASTROPHIC	<p>1) You are in a life-threatening situation. 2) Flying debris may be deadly to those caught without shelter. 3) Mobile homes will be destroyed. 4) Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.</p>

* Note: Alternative impact statements may be utilized per Regional discretion for Landspout / Weak Tornado only. The other statements are standard nationwide.

Fourth Bullet – Locations to be impacted during the warning (see Figure 2);

PRECAUTIONARY/PREPAREDNESS ACTIONS – One or two short, concise, action-oriented CTA statements should be included (unless designated on-duty shift leader/supervisor has discontinued call-to-action statements), starting with this Uppercase text phrase, “TAKE COVER NOW!”. If CTAs are included under the PRECAUTIONARY/PREPAREDNESS ACTIONS, then two ampersands (&&) are required as a dissemination marker after the last CTA (see [NWSI 10-1701](#), Section 5.5 for details on CTAs and markers). Credible reports of tornadoes and associated damage should go in the basis statement (first IBW sub-section “HAZARD”, under the third bullet) instead of the precautionary/preparedness actions.

LAT...LON – The warning area polygon as described by a series of latitude/longitude coordinates in decimal degrees with precision to hundredths (two (2) decimal places). The polygon will contain as few as three and as many as twenty vertices.

Partial County Alerting (PCA) – For a partitioned county and a given warning, if a WFO invokes PCA for NWR and EAS, a Partition Tag line will be located in the block below the double ampersand (&&) sign, immediately after the LAT...LON line and before the TIME...MOT...LOC line or IBW Tags. Each element of the Partition Tag Line will use a six digit code corresponding to the six digit SAME location code, following the mandatory NWS and FCC PSSCCC nomenclature, where P=partition number, SS=state and CCC=county. For non-partitioned counties, there is no Partition Tag line.

TIME...MOT...LOC – The tracking information gives the location and movement of the event being tracked. Examples of such events could include the low-level mesocyclone, or a report of the tornado location. The format includes the time of the observed event in UTC, followed by a three digit direction of movement in degrees (direction the event is moving from), followed by speed of movement in knots, and finally the location of the event as a single latitude/longitude coordinate.

IBW-Coded Tag Lines – This section details the required and optional IBW-coded tag lines according to each hazard type. These outputs are linked to choices made within the WarnGen product generation application and are not editable in the warning text. All tag lines and information wording will be in Uppercase.

TORNADO...RADAR INDICATED/OBSERVED

(Required first line, based on selection from the “HAZARD” IBW sub-section).

TORNADO DAMAGE THREAT...CONSIDERABLE/CATASTROPHIC (Will only appear for the selection of either of these two options (CONSIDERABLE; CATASTROPHIC). The selection of CONSIDERABLE can be associated with either RADAR INDICATED or OBSERVED in the above tag and “Damaging tornado” will be placed in the HAZARD section, as the warning basis. The selection of CATASTROPHIC will assign OBSERVED in the above tag and “Deadly tornado” will be placed in the HAZARD section, as the warning basis. With either the tags, CONSIDERABLE or CATASTROPHIC, the phrase: “This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!” will also be placed in the third bullet, above the “HAZARD” section.

MAX HAIL SIZE...X.XX INCH

(Required; X.XX INCH = value of maximum expected/reported hail size, in inches, from above in the “HAZARD” warning basis section; can be 0.00 IN if no hail is expected or a lower value of hail size than the minimum SVR criteria, e.g., <.75 IN.).

```

WFaa5i cccc ddhhmm
TORccc
STC001-002-ddhhmm-
/k.aaa.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning (... CORRECTED as required)
National Weather Service City State
time am/pm time_zone day mon dd yyyy

...TORNADO EMERGENCY FOR (CITY, CITIES, PORTION OF
COUNTY/COUNTIES)... (if applicable; IBW tornado damage threat tag
"Catastrophic" must be invoked/selected)

The National Weather Service in City has issued a

* Tornado Warning for...
  Portion County one in section State...(List warned counties)
  Portion County two in section State...(Number of Counties will
match number of counties in UGC Line)

* Until hhmm AM/PM time_zone (Expiration time of warning)

* At hhmm am/pm time_zone, warning basis, forward speed and
direction.
```

```

TORNADO EMERGENCY for (same location/s as first headline). This is a
PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW! (for the
"Catastrophic" tornado damage threat IBW tag only)

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW! (for the
"Considerable" tornado damage threat IBW tag only)

HAZARD...Warning basis statement (Tornado and; Damaging Tornado
and; largest expected hail size - if chosen).

SOURCE...(Choose one) Radar indicated, Trained weather spotters,
Law enforcement, Emergency management, Broadcast media, or Public.

IMPACT...Statements will populate based on the selected severe
hazards in Table 2.

* Locations impacted include...
Location #1, Location #2, Location #n. (n = variable number of
locations).

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements).

&&

LAT...LON (Required list of latitude/longitude coordinate pairs
outlining the forecaster-drawn warning area)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx (lat/lon couplet(s))
TORNADO...RADAR INDICATED; OBSERVED
TORNADO DAMAGE THREAT...CONSIDERABLE; CATASTROPHIC
MAX HAIL SIZE...X.XX IN (X.XX = value of maximum expected hail size,
in diameter, from the "HAZARD" warning basis section)

$$
FORECASTER NAME/NUMBER (OPTIONAL)

```

Figure 2. Tornado Warning Format

3.4 Updates, Amendments and Corrections

Updates and amendments are not applicable. WFOs will correct TORs for significant grammatical errors, format or dissemination code errors. Corrected warnings will have the same time in the MND Header and the same ETN in the VTEC line as the original warning. WFOs should issue SVSs to inform users of erroneous counties removed from original warnings (either in the FIPS/Zone UGC code or in the body of the warning).

4. Severe Weather Statement (product category SVS).

4.1 Mission Connection

Severe Weather Statements (SVSs) provide the public and emergency managers with updated information for specific Severe Thunderstorm (SVR) and Tornado (TOR) Warnings. Updated information includes reports of observed severe weather. They also inform the public, media, and emergency managers when all or portions of a warning have been cancelled or have expired.

4.2 Issuance Guidelines

4.2.1 Creation Software

WFOs will use WarnGen to issue SVSs.

4.2.2 Issuance Criteria

The following guidelines apply to the issuance of SVSs by WFOs:

- a. Cancellations – WFOs should issue a SVS to provide notice a SVR or TOR has been cancelled for all or portions of the warning polygon.
- b. Updates – WFOs should issue SVSs at least once during the valid time of a SVR or TOR. During significant severe thunderstorm and tornado events, WFOs should issue more frequent SVS updates to keep the public informed of the progression of dangerous storms. This includes substantive changes to storm intensity and/or potential impacts (e.g., increase in hail size from quarter-sized to golf ball-sized; decrease in estimated wind gusts from 80 mph to 70 mph, radar-indicated tornado to a tornado confirmed by a visual report from a credible source), if the reports/observations are received within the valid time of the warning.
- c. Corrections – WFOs should issue a SVS to notify users of erroneous counties included in the original SVR or TOR (either in the FIPS/Zone UGC code or in the body of the warning) have been removed.
- d. Expirations – WFOs may issue a SVS to provide notice that a SVR or TOR has expired.

4.2.3 Issuance Time

SVSs are non-scheduled, event-driven products.

4.2.4 Valid Time

The valid time will be from the time of issuance to the warning expiration or cancellation time.

4.2.5 Product Expiration Time

The product expiration time is no more than 15 minutes after the warning expiration or cancellation time.

4.3 Technical Description

SVSs will follow the IBW format and content described in this section.

4.3.1 UGC Type

County (Zone for Alaska Region and parts of Pacific Region).

4.3.2 MND Broadcast Line

None.

4.3.3 MND Header

The SVS MND header is “Severe Weather Statement”.

4.3.4 Content

The following Guidelines apply to the issuance of SVSs by WFOs.

- a. Purpose:
 - 1) WFOs should issue SVSs to address the status of severe weather warnings.
 - 2) WFOs will not use SVSs to expand in area or extend the valid time of TORs and SVRs.
 - 3) If the threat of severe weather clears a significant portion of the warned area of a SVR or TOR during the valid period, such as a complete removal of a county or counties, forecasters should update the warning to reflect the changes.

- b. Writing Style:
 - 1) SVSs will be in Letter Case with the exception of section headers, coded tag lines, the headline for a Tornado Emergency, special phrases for a Particularly Dangerous Situation or a Destructive storm(s), and special CTA statements designed to be in Uppercase.
 - 2) The SVS will be in the IBW format for the section following the storm characteristics information (e.g., impact(s), timing, location, movement).
 - 3) Locations used to identify the threatened areas should be larger towns and other familiar landmarks.
 - 4) Names of states and counties (or parts of counties) should be spelled out.
 - 5) Concise CTA statements should be included.
 - 6) The WFO designated on-duty shift leader/supervisor may discontinue CTA statements in warnings during widespread severe weather outbreaks.
 - 7) Mileage markers may be used as reference points when a storm is occurring or forecast to move over a major highway but limited to five reference points or less.
 - 8) Named stadiums, arenas, or venues can be included in the locations section, as long the residing city name is included as a separate location entry.

- c. Reports of Severe Events or Damage:
 - 1) Recent credible reports of a tornado, developing tornado, severe hail, or damaging wind that are received and validated in a timely manner should be included.

- d. Pathcasts:
 - 1) In general, the SVS may contain ‘pathcasts’ (specific forecasts of location and arrival time) provided the forecaster has very high confidence in the direction and

- speed of the movement of the hazardous weather.
- 2) Any ‘pathcast’ issued should use terms of uncertainty appropriate to the state of the science (e.g., ‘the tornadic storm will be near [location] around [time]’).
 - 3) In addition, SVSs with ‘pathcast’ information should be frequently updated (approximately every 15 minutes). This ensures that users receive the most recent information concerning the location and movement of the hazardous weather.

4.3.4.1 Tornado and Thunderstorm Damage Threat Categorizations

See Sections 2.3.4.1 and 3.3.4.1 for details on the IBW damage threat categorizations for Tornado and Severe Thunderstorm Warnings which are all applicable in continuation SVS updates.

4.3.5 Format

(See Figure 3)

```

WWUS5i cccc ddhhmm
SVSccc

Severe Weather Statement
National Weather Service City State
time am/pm time_zone day mon dd yyyy

STC001-ddhhmm-
/k.CAN.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/
County A -
time am/pm time_zone day mon dd yyyy

...SEVERE THUNDERSTORM or TORNADO WARNING HAS BEEN CANCELLED FOR
PORTION COUNTY A...

LAT...LON (Required list of latitude/longitude points outlining the
warning area - modified to remove those areas no longer threatened)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx (lat/lon coordinate(s))

$$

STC003-ddhhmm-
/k.CON.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/
County B -
time am/pm time_zone day mon dd yyyy

...TORNADO EMERGENCY FOR (CITY/CITIES, PORTION/S OF COUNTY B)... (if
applicable; IBW tornado damage threat tag "Catastrophic" must be
invoked/selected)

...SEVERE THUNDERSTORM or TORNADO WARNING REMAINS IN EFFECT UNTIL
hhmm am/pm time_zone FOR COUNTY B...

At hhmm am/pm time_zone, warning basis, forward speed and direction.

```

TORNADO EMERGENCY for (same location/s as first headline). This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW! (for the "Catastrophic" tornado damage threat IBW tag only)

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW! (for the "Considerable" tornado damage threat IBW tag only)

THIS IS A DESTRUCTIVE STORM/THESE ARE DESTRUCTIVE STORMS for [IMPACTED LOCATION/S]. (upon invoking of the "Destructive" thunderstorm damage threat IBW tag only; use up to three city/location names)

HAZARD...Severe thunderstorm-based hazard(s) (hail and/or wind) or tornado.

SOURCE...(Choose one) Radar indicated, Trained weather spotters, Law enforcement, Emergency management, Broadcast media, or Public.

IMPACT...Statements will populate based on the selected severe hazards in Table 1.

Locations impacted include...

Location #1, Location #2, Location #n. (n = variable number of locations).

PRECAUTIONARY/PREPAREDNESS ACTIONS...

(Call-to-Action statements).

(Tornado watch information for Severe Thunderstorm Warnings only, if valid for the warned area).

&&

LAT...LON (Required list of latitude/longitude points outlining the warning area - modified to remove those areas no longer threatened)
TIME...MOT...LOC hhnnZ xxxDEG xxKT xxxx (lat/lon couplet(s))

(for a Tornado Warning)

TORNADO...RADAR INDICATED; OBSERVED

TORNADO DAMAGE THREAT...CONSIDERABLE; CATASTROPHIC

MAX HAIL SIZE...X.XX IN (X.XX = value of maximum expected hail size, in diameter, from the "HAZARD" warning basis section)

(for a Severe Thunderstorm Warning)

TORNADO...POSSIBLE (will only appear if selected)

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE/DESTRUCTIVE

HAIL THREAT...RADAR INDICATED/OBSERVED

MAX HAIL SIZE...X.XX IN (X.XX = value of maximum expected hail size, in diameter, from the "HAZARD" warning basis section)

```

WIND THREAT...RADAR INDICATED/OBSERVED
MAX WIND GUST...XX MPH (XX = value of maximum expected wind speed
from the "HAZARD" warning basis section to the nearest 10 mph. XXX
MPH for 100 mph selection)

$$

FORECASTER NAME/NUMBER (OPTIONAL)

```

Figure 3. Severe Weather Statement (SVS) Format

4.3.5.1 Event Tracking Number (ETN)

The VTEC ETN (#####) in the SVS will match the corresponding active SVR or TOR for updates and cancellations (See Figure 3).

4.4 Updates, Amendments and Corrections

Updates and amendments to the corresponding warning polygon should be provided as necessary through subsequent SVSs. WFOs will correct statements for format and grammatical errors as required.

5. Watch County Notification Message (product category WCN).

5.1 Mission Connection

WFOs will issue Watch County Notification Messages (WCN) to provide NOAA/NWS' Storm Prediction Center (SPC), emergency managers, the media, and the public with a list of counties, parishes, independent cities, and marine zones in a convective watch area within their geographic area of responsibility.

5.2 Issuance Guidelines

5.2.1 Creation Software

WFOs should use the Graphical Hazards Generation Editor (GHG) software to create WCNs.

5.2.2 Issuance Criteria

Affected contiguous United States (CONUS) WFOs will issue initial WCNs after SPC issues the initial Watch Outline Update Message (WOU). WFOs in tropical areas outside the CONUS (OCONUS) will issue WCNs without a WOU from SPC and based on the potential of damaging winds, severe hail, and/or tornadoes. WFOs will issue updated WCNs to cancel, extend the valid time, or extend in area portions of one or more convective watches in their geographic area of responsibility.

5.2.3 Issuance Time

WCNs are non-scheduled, event-driven products.

5.2.4 Valid Time

WCNs are valid until the watch expiration time.

5.2.5 Product Expiration Time

The expiration time is the same as the convective watch end time found in the initial WOU. WFOs may extend the convective watch expiration time in a WCN update after collaboration with SPC and the other WFOs in the watch area. Timely collaboration on a watch extended in time is particularly important so other WFOs in the watch area have the opportunity to cancel the watch from their counties.

5.3 Technical Description

WCNs will follow the format and content described in this section.

5.3.1 UGC Type

County.

5.3.2 MND Header

The WCN MND header is “WATCH COUNTY NOTIFICATION FOR WATCH nnnn”, where “nnnn” is the watch number. The watch number will be for the watch with the earliest issuance time if more than one watch is in effect for a WFO’s geographical area of responsibility.

5.3.3 Content

WFOs and SPC are partners in the convective watch process. In the spirit of partnership, WFOs and SPC work toward a consensus convective watch area and duration before, during, and at the end of convective watches. This partnership is defined as collaboration. CONUS WFOs are not required to collaborate with SPC.

WOUs will include all counties or parishes, independent cities and adjacent coastal water marine zones in a watch area (including nearshore zones out to 20 nautical miles and outer zones from 20-60 nautical miles). All Great Lakes marine zones within the United States will be included in convective watches. The initial WOU automatically generates the initial Watch County Notification Messages (WCN) for the affected WFOs. As a result of a collaboration call with those WFOs for which their CWA is included within a proposed convective watch, the counties or parishes, independent cities and marine zones listed in the initial WOU will match those listed in the initial WCNs issued by the affected WFOs.

- a. Active Watches – WFOs will issue updated WCNs to continue, cancel or extend in time or area portions of one or more active convective watches in their geographic area of responsibility.
- b. New Watches – WFOs will also issue updated WCNs to include new watches issued within their geographic area of responsibility while existing watches remain in effect.
- c. Watch Extensions – CONUS WFOs will collaborate with SPC and affected WFOs on

counties, parishes, independent cities or marine zones added to the initial watch area, or extensions to the expiration time of the initial convective watch area.

- d. Watch Replacements – CONUS WFOs will collaborate with SPC and adjacent WFOs when counties, parishes, independent cities or marine zones are transferred from an existing convective watch to a new convective watch (e.g., watch replacement).
- e. Watch Editing Consistency – WFOs should ensure modifications to the convective watch area are consistent with modifications made by adjacent WFOs.
- f. WCN Issuance Times – WCNs should be issued by H+55 so that changes will be reflected in the WOU issued by SPC after the top of the hour.
- g. Watch Cancellation/Expiration – The final WCN for a particular convective watch will cancel or allow expiration of all remaining counties, parishes, independent cities and/or marine zones in the watch for their geographic area of responsibility.

5.3.4 Format

(See Figure 4)

```

WWUS6i cccc ddhhmm
WCNccc

```

```

WATCH COUNTY NOTIFICATION FOR WATCH nnnn (or nnnn/nnnn if more than
one watch is in effect)
NATIONAL WEATHER SERVICE CITY STATE
time am/pm time_zone day mon dd yyyy

```

```

STC001-003-ddhhmm-
/k.aaa.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/
THE NATIONAL WEATHER SERVICE HAS CANCELLED SEVERE THUNDERSTORM (OR
TORNADO WATCH) nnnn FOR THE FOLLOWING AREAS (If Cancellation Segment)

```

```

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR
TORNADO) WATCH nnnn UNTIL time am/pm time_zone WHICH REPLACES A
PORTION OF SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn. THE NEW
WATCH IS VALID FOR THE FOLLOWING AREAS (If Replacement Segment)

```

```

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR
TORNADO) WATCH nnnn UNTIL time am/pm time_zone. SEVERE THUNDERSTORM
(OR TORNADO) WATCH nnnn WILL BE ALLOWED TO EXPIRE (OR HAS EXPIRED).
THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS (If Replacement for
Expired Segment)

```

```

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM (OR
TORNADO) WATCH nnnn IN EFFECT UNTIL time am/pm time_zone FOR THE
FOLLOWING AREAS (If New Segment)

```

NWSI 10-511 JANUARY 26, 2023

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO INCLUDE THE FOLLOWING AREAS UNTIL time am/pm time_zone **(If Extension in Area Segment)**

SEVERE THUNDERSTORM (OR TORNADO) WATCH NUMBER nnnn...PREVIOUSLY IN EFFECT UNTIL time am/pm time_zone...IS NOW IN EFFECT UNTIL time am/pm time_zone FOR THE FOLLOWING AREAS **(If Extension in Time Segment)**

SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn REMAINS VALID UNTIL time am/pm time_zone FOR THE FOLLOWING AREAS **(If Continuation Segment)**

THE NATIONAL WEATHER SERVICE WILL ALLOW SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO EXPIRE AT time am/pm time_zone FOR THE FOLLOWING AREAS **(If Expiration Segment - issued prior to watch end time)**

THE NATIONAL WEATHER SERVICE HAS ALLOWED SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn TO EXPIRE FOR THE FOLLOWING AREAS. **(If Expiration Segment - issued after the watch end time)**

SEVERE THUNDERSTORM (OR TORNADO) WATCH nnnn WILL BE ALLOWED TO EXPIRE (OR HAS EXPIRED). THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS **(If Replacement for Expired Segment)**

IN STATE 1 THIS WATCH INCLUDES (or CANCELS or ALLOWS TO EXPIRE) n COUNTIES

LIST OF COUNTIES IN STATE 1 (OR PORTION OF STATE 1)

IN STATE 1 THIS WATCH INCLUDES (or CANCELS or ALLOWS TO EXPIRE) n INDEPENDENT CITIES

LIST OF INDEPENDENT CITIES IN STATE 1

THIS WATCH INCLUDES (or THIS CANCELS or ALLOWS TO EXPIRE) THE FOLLOWING ADJACENT COASTAL WATERS

LIST OF MARINE ZONES

OTHER CITIES IN STATES 1 (OPTIONAL)

\$\$ (END OF SEGMENT)

Figure 4. Watch County Notification (WCN) Message Format

5.3.4.1 Event Tracking Number (ETN)

The VTEC ETN (#####) will match the SPC watch number designated in the WOU, except for WCNs issued by WFOs in Pacific Region and Puerto Rico.

5.4 Updates, Amendments and Corrections

WFOs will update WCNs when counties, parishes, independent cities, or marine zones are cancelled or added from the watch or the watch valid time is extended. WFOs will correct WCNs for format and grammatical errors.

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1. Introduction

This appendix provides the public with examples for each of the IBW categories for each of the WFO products.

2. Severe Thunderstorm Warning (SVR)

a. IBW Tag: "Base" (example SPC Tornado Watch information included)

WUUS54 KEWX 052153
SVREWX
TXC453-491-052245-
/O.NEW.KEWX.SV.W.0080.220505T2153Z-220505T2245Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Severe Thunderstorm Warning
National Weather Service Austin/San Antonio TX
453 PM CDT Thu May 5 2022

The National Weather Service in Austin San Antonio has issued a

- * Severe Thunderstorm Warning for...
Southwestern Williamson County in south central Texas...
Northwestern Travis County in south central Texas...
- * Until 545 PM CDT.
- * At 453 PM CDT, a severe thunderstorm was located near Liberty Hill,
or 8 miles southeast of Bertram, moving southeast at 25 mph.

HAZARD...60 mph wind gusts and quarter size hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage
to roofs, siding, and trees.
- * Locations impacted include...
Austin, Round Rock, Cedar Park, Pflugerville, Anderson Mill,
Windemere, Leander, Lago Vista, Hudson Bend, Liberty Hill,
Mansfield Dam, Jonestown, Volente, Brushy Creek, Wells Branch,
Jollyville and Seward Junction.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Tornado Watch remains in effect until 600 PM CDT for south central
Texas.

For your protection, move to an interior room on the lowest floor of a
building.

&&

LAT...LON 3076 9797 3050 9757 3041 9770 3038 9794
3058 9807 3074 9799
TIME...MOT...LOC 2153Z 311DEG 21KT 3065 9798

HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...1.00 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

WUUS53 KLSX 070333
SVRLSX
MOC103-111-127-137-173-205-070430-
/O.NEW.KLSX.SV.W.0029.170307T0333Z-170307T0430Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Severe Thunderstorm Warning
National Weather Service St Louis MO
933 PM CST MON MAR 6 2017

The National Weather Service in St Louis has issued a

- * Severe Thunderstorm Warning for...
Knox County in northeastern Missouri...
Ralls County in northeastern Missouri...
Marion County in northeastern Missouri...
Shelby County in northeastern Missouri...
Lewis County in northeastern Missouri...
Monroe County in northeastern Missouri...
- * Until 1030 PM CST.
- * At 932 PM CST, severe thunderstorms were located along a line extending from near Memphis to 9 miles northwest of Huntsville, moving east at 55 mph.

HAZARD...60 mph wind gusts and quarter size hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to roofs, siding, and trees.
- * Locations impacted include...
Hannibal, Palmyra, Monroe City, Canton, Shelbina, Paris, Edina, Santa Fe, Warren, New London, La Grange, Clarence, Perry, La Belle, Madison, Shelbyville, Lewistown, Center, Ewing and Rensselaer.

This also includes Wakonda State Park, Union Covered Bridge Historic Site and Mark Twain Lake Recreational Area.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

A tornado watch remains in effect until 400 AM CST for west central Illinois and northeastern Missouri.

&&

LAT...LON 4030 9195 4026 9193 4025 9150 4003 9150
3993 9142 3988 9145 3984 9144 3980 9137
3973 9137 3969 9133 3960 9118 3945 9146
3932 9144 3935 9231 3995 9229 3996 9234
4030 9235

TIME...MOT...LOC 0332Z 266DEG 48KT 4047 9227 3956 9264

HAIL. 1.00IN

WIND. 60MPH

\$\$

Wind threshold (only)

WUUS51 KAKQ 311731

SVRAKQ

VAC007-053-111-135-311800-

/O.NEW.KAKQ.SV.W.0005.220331T1731Z-220331T1800Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED

Severe Thunderstorm Warning

National Weather Service Wakefield VA

131 PM EDT Thu Mar 31 2022

The National Weather Service in Wakefield has issued a

* Severe Thunderstorm Warning for...

Northeastern Lunenburg County in south central Virginia...

Nottoway County in south central Virginia...

Northwestern Dinwiddie County in south central Virginia...

South central Amelia County in central Virginia...

* Until 200 PM EDT.

* At 130 PM EDT, a severe thunderstorm was located over Kenbridge, moving northeast at 50 mph.

HAZARD...60 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...Expect damage to trees and powerlines.

* This severe thunderstorm will be near...
Nottoway and Fort Pickett around 140 PM EDT.
Blackstone around 145 PM EDT.
Spainville and Wilsons around 150 PM EDT.

Other locations impacted by this severe thunderstorm include North Wellville, Irby, Earls, Murdocks, Forkland, The Falls, Wellville, Dominy Corner, Clay Store and Blackstone Airport.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

Please report severe weather by calling 757-899-2415, posting to the NWS Wakefield Facebook page, or using Twitter @NWSWAKEFIELDVA.

&&

LAT...LON 3711 7813 3731 7797 3718 7778 3700 7791
3699 7794 3699 7797 3702 7800 3696 7801
3691 7813 3698 7822
TIME...MOT...LOC 1730Z 224DEG 43KT 3699 7811

HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...<.75 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

Hail threshold (only)

WUUS53 KTOP 290916
SVRTOP
KSC027-041-061-161-290945-
/O.NEW.KTOP.SV.W.0026.220429T0916Z-220429T0945Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Severe Thunderstorm Warning
National Weather Service Topeka KS
416 AM CDT Fri Apr 29 2022

The National Weather Service in Topeka has issued a

* Severe Thunderstorm Warning for...

Northeastern Dickinson County in central Kansas...
Northwestern Geary County in east central Kansas...
Southwestern Riley County in northeastern Kansas...
Southeastern Clay County in north central Kansas...

* Until 445 AM CDT.

* At 416 AM CDT, a severe thunderstorm was located 6 miles south of Wakefield, moving northeast at 40 mph.

HAZARD...Half dollar size hail.

SOURCE...Radar indicated.

IMPACT...Damage to vehicles is expected.

* Locations impacted include...

Junction City, Chapman, Wakefield, Riley, Milford, Milford Lake and Keats.

This includes Interstate 70 between mile markers 285 and 292.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

&&

LAT...LON 3935 9704 3934 9672 3916 9667 3893 9700
3910 9718

TIME...MOT...LOC 0916Z 222DEG 33KT 3912 9705

HAIL THREAT...RADAR INDICATED

MAX HAIL SIZE...1.25 IN

WIND THREAT...RADAR INDICATED

MAX WIND GUST...<50 MPH

\$\$

b. IBW Tag: "Tornado...Possible"

WUUS53 KGRB 102200

SVRGRB

WIC037-041-102245-

/O.NEW.KGRB.SV.W.0009.220510T2200Z-220510T2245Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED

Severe Thunderstorm Warning

National Weather Service Green Bay WI

500 PM CDT Tue May 10 2022

The National Weather Service in Green Bay has issued a

* Severe Thunderstorm Warning for...
North central Forest County in northeastern Wisconsin...
Northern Florence County in northeastern Wisconsin...

* Until 545 PM CDT.

* At 500 PM CDT, a severe thunderstorm was located near Tipler, or 10 miles south of Iron River, moving east at 45 mph.

HAZARD...60 mph wind gusts and half dollar size hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to roofs, siding, and trees.

* This severe thunderstorm will be near...
Whisker Lake Wilderness around 515 PM CDT.

Other locations in the path of this severe thunderstorm include Florence.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

Torrential rainfall is occurring with this storm, and may lead to flash flooding. Do not drive your vehicle through flooded roadways.

A Tornado Watch remains in effect until 900 PM CDT for northeastern Wisconsin.

&&

LAT...LON 4599 8849 4600 8847 4598 8841 4599 8838
4595 8829 4596 8825 4595 8824 4595 8819
4592 8811 4588 8810 4587 8808 4586 8876
4596 8880 4599 8866 4599 8862 4600 8861
4602 8851
TIME...MOT...LOC 2200Z 250DEG 40KT 4595 8868

TORNADO...POSSIBLE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...1.25 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

“Tornado...Possible” with Wind threshold (only)

WUUS54 KHUN 020225
SVRHUN
ALC049-071-020315-
/O.NEW.KHUN.SV.W.0012.220102T0225Z-220102T0315Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Severe Thunderstorm Warning
National Weather Service Huntsville AL
825 PM CST Sat Jan 1 2022

The National Weather Service in Huntsville Alabama has issued a

- * Severe Thunderstorm Warning for...
Jackson County in northeastern Alabama...
Northeastern DeKalb County in northeastern Alabama...
- * Until 915 PM CST.
- * At 825 PM CST, a severe thunderstorm was located near Hollywood, or
8 miles northeast of Scottsboro, moving east at 55 mph.

HAZARD...60 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...Expect damage to roofs, siding, and trees.
- * Locations impacted include...
Scottsboro, Bridgeport, Henagar, Stevenson, Sylvania, Hollywood,
Skyline, Section, Ider and Pisgah.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Remain alert for a possible tornado! Tornadoes can develop quickly from severe thunderstorms. If you spot a tornado, go at once into the basement or small central room in a sturdy structure.

For your protection, move to an interior room on the lowest floor of a building.

A Tornado Watch remains in effect until 200 AM CST for north central and northeastern Alabama...and Middle Tennessee.

&&

LAT...LON 3459 8615 3460 8616 3460 8627 3499 8606

3498 8561 3455 8552
TIME...MOT...LOC 0225Z 256DEG 50KT 3478 8595

TORNADO...POSSIBLE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...<.75 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

c. IBW Tag: "Considerable"

WUUS55 KTFX 182128
SVRFTX
MTC013-015-073-099-182215-
/O.NEW.KTFX.SV.W.0017.220618T2128Z-220618T2215Z/

BULLETIN - EAS ACTIVATION REQUESTED
Severe Thunderstorm Warning
National Weather Service Great Falls MT
328 PM MDT Sat Jun 18 2022

The National Weather Service in Great Falls has issued a

- * Severe Thunderstorm Warning for...
Southeastern Pondera County in north central Montana...
East central Teton County in north central Montana...
West central Chouteau County in north central Montana...
Northern Cascade County in central Montana...
- * Until 415 PM MDT.
- * At 327 PM MDT, a severe thunderstorm was located 10 miles east of Power, or 19 miles northwest of Great Falls, moving northeast at 50 mph.

HAZARD...Two inch hail and 70 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...People and animals outdoors will be injured. Expect hail damage to roofs, siding, windows, and vehicles. Expect considerable tree damage. Wind damage is also likely to mobile homes, roofs, and outbuildings.

- * Locations impacted include...
The Knees and Carter.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Prepare immediately for large hail and damaging winds. People outside should move immediately to shelter inside a strong building. Stay away from windows.

Torrential rainfall is occurring with this storm, and may lead to flash flooding. Do not drive your vehicle through flooded roadways.

&&

LAT...LON 4785 11070 4764 11154 4773 11166 4814 11127
4813 11111

TIME...MOT...LOC 2127Z 225DEG 44KT 4775 11148

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...2.00 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...70 MPH

\$\$

Wind threshold (only)

WUUS55 KSLC 192125
SVRSLC
UTC003-011-057-192200-
/O.NEW.KSLC.SV.W.0007.220619T2125Z-220619T2200Z/

BULLETIN - IMMEDIATE BROADCAST REQUESTED
Severe Thunderstorm Warning
National Weather Service Salt Lake City UT
325 PM MDT Sun Jun 19 2022

The National Weather Service in Salt Lake City has issued a

- * Severe Thunderstorm Warning for...
Southwestern Weber County in northern Utah...
Southeastern Box Elder County in northern Utah...
Northwestern Davis County in northern Utah...
- * Until 400 PM MDT
- * At 324 PM MDT, a severe thunderstorm was located 9 miles west of Willard, or 13 miles southwest of Brigham City, moving east at 40 mph.

HAZARD...70 mph wind gusts.

SOURCE...Radar indicated and mesonet confirmed.

IMPACT...Expect considerable tree damage. Damage is likely to mobile homes, roofs, and outbuildings.

* Locations impacted include...

Ogden, Brigham City, Tremonton, Roy, Clinton, North Ogden, South Ogden, Washington Terrace, Riverdale, Hooper, Perry, Willard, Marriott-Slaterville, Bear River City, Corinne, Weber State University, South Willard, Great Salt Lake South of the Causeway, West Haven and Pleasant View.

This includes the following highways...

Interstate 15 between mile markers 339 and 380.

Interstate 84 between mile markers 42 and 82.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

If on or near Great Salt Lake, get away from the water and move indoors or inside a vehicle. Remember, lightning can strike out to 15 miles from the parent thunderstorm. If you can hear thunder, you are close enough to be struck by lightning. Move to safe shelter now! Do not be caught on the water in a thunderstorm.

&&

LAT...LON 4108 11237 4158 11269 4174 11209 4119 11193

TIME...MOT...LOC 2124Z 247DEG 35KT 4142 11223

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE

HAIL THREAT...RADAR INDICATED

MAX HAIL SIZE...<.75 IN

WIND THREAT...RADAR INDICATED

MAX WIND GUST...70 MPH

\$\$

Hail threshold (only)

WUUS53 KFSD 091154

SVRFSD

MNC081-083-091230-

/O.NEW.KFSD.SV.W.0054.220509T1154Z-220509T1230Z/

BULLETIN - EAS ACTIVATION REQUESTED

Severe Thunderstorm Warning

National Weather Service Sioux Falls SD

654 AM CDT Mon May 9 2022

The National Weather Service in Sioux Falls has issued a

* Severe Thunderstorm Warning for...
Northern Lyon County in southwestern Minnesota...
Northeastern Lincoln County in southwestern Minnesota...

* Until 730 AM CDT.

* At 654 AM CDT, a severe thunderstorm was located near Ivanhoe, or
23 miles southeast of Clear Lake, moving northeast at 60 mph.

HAZARD...Tennis ball size hail.

SOURCE...Radar indicated.

IMPACT...People and animals outdoors will be injured. Expect
damage to roofs, siding, windows, and vehicles.

* This severe thunderstorm will be near...
Minneota, Ghent and Taunton around 710 AM CDT.

Other locations in the path of this severe thunderstorm include
Cottonwood.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a
building.

To report severe weather, contact your nearest law enforcement agency.
They will send your report to the National Weather Service office in
Sioux Falls.

&&

LAT...LON 4447 9559 4440 9610 4463 9627 4463 9561
TIME...MOT...LOC 1154Z 242DEG 53KT 4453 9631

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...2.50 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...<50 MPH

\$\$

d. IBW Tag: "Destructive"

WUUS54 KMAF 012339

SVRMAF
TXC415-020045-
/O.NEW.KMAF.SV.W.0040.220501T2339Z-220502T0045Z/

BULLETIN - EAS ACTIVATION REQUESTED
Severe Thunderstorm Warning
National Weather Service Midland/Odessa TX
639 PM CDT Sun May 1 2022

The National Weather Service in Midland has issued a

* Severe Thunderstorm Warning for...
Southern Scurry County in western Texas...

* Until 745 PM CDT.

* At 638 PM CDT, a severe thunderstorm was located near Snyder,
moving east at 20 mph.

THIS IS A DESTRUCTIVE STORM FOR SCURRY COUNTY INCLUDING SNYDER.

HAZARD...80 mph wind gusts and three inch hail.

SOURCE...Radar indicated.

IMPACT...Flying debris will be dangerous to those caught without
shelter. Mobile homes will be heavily damaged. Expect
considerable damage to roofs, windows, and vehicles.
Extensive tree damage and power outages are likely.

* Locations impacted include...
Snyder, Dunn, Ira, Winston Field, Hermligh and Randalls Corner.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A Tornado Watch remains in effect until 1000 PM CDT for western Texas.

For your protection, move to an interior room on the lowest floor of a
building.

A Tornado Watch remains in effect until 1000 PM CDT for western Texas.

&&

LAT...LON 3256 10109 3279 10114 3286 10066 3255 10066
TIME...MOT...LOC 2338Z 266DEG 17KT 3266 10100

TORNADO...POSSIBLE
THUNDERSTORM DAMAGE THREAT...DESTRUCTIVE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...3.00 IN
WIND THREAT...RADAR INDICATED

MAX WIND GUST...80 MPH

\$\$

Wind threshold (only)

WUUS53 KLOT 291859
SVRLOT
INC073-127-291915-
/O.NEW.KLOT.SV.W.0126.220829T1859Z-220829T1915Z/

BULLETIN - EAS ACTIVATION REQUESTED
Severe Thunderstorm Warning
National Weather Service Chicago/Romeoville
159 PM CDT Mon Aug 29 2022

The National Weather Service in Chicago has issued a

- * Severe Thunderstorm Warning for...
Southwestern Porter County in northwestern Indiana...
Northwestern Jasper County in northwestern Indiana...
- * Until 215 PM CDT.
- * At 158 PM CDT, severe thunderstorms were located along a line extending from Hebron to 6 miles south of DeMotte, moving east at 55 mph.

THESE ARE DESTRUCTIVE STORMS FOR DEMOTTE AND STOUTSBURG.

HAZARD...80 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...Flying debris will be dangerous to those caught without shelter. Mobile homes will be heavily damaged. Expect considerable damage to roofs, windows, and vehicles. Extensive tree damage and power outages are likely.

- * Locations impacted include...
Valparaiso, DeMotte, Hebron, Wheatfield, Lakes of the Four Seasons, Roselawn, Boone Grove and Stoutsburg.

Including the following interstate...
Indiana I-65 between mile markers 227 and 230.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

This is an EXTREMELY DANGEROUS SITUATION with tornado-like wind speeds expected. Mobile homes and high profile vehicles are especially susceptible to winds of this magnitude and may be overturned. For your protection, move to an interior room on the lowest floor of a building. These storms have the potential to cause serious injury and significant property damage.

&&

LAT...LON 4107 8707 4110 8728 4122 8726 4124 8722
4147 8722 4146 8703
TIME...MOT...LOC 1858Z 279DEG 46KT 4133 8716 4111 8718

THUNDERSTORM DAMAGE THREAT...DESTRUCTIVE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...<.75 IN
WIND THREAT...OBSERVED
MAX WIND GUST...80 MPH

\$\$

Hail threshold (only)

WUUS53 KMPX 091233
SVRMPX
MNC023-067-121-129-145-151-091330-
/O.NEW.KMPX.SV.W.0024.220509T1233Z-220509T1330Z/

BULLETIN - EAS ACTIVATION REQUESTED
Severe Thunderstorm Warning
National Weather Service Twin Cities/Chanhassen MN
733 AM CDT Mon May 9 2022

The National Weather Service in the Twin Cities has issued a

- * Severe Thunderstorm Warning for...
Southeastern Pope County in west central Minnesota...
Northeastern Chippewa County in west central Minnesota...
Southwestern Stearns County in central Minnesota...
Eastern Swift County in west central Minnesota...
Kandiyohi County in central Minnesota...
Northwestern Renville County in central Minnesota...
- * Until 830 AM CDT.
- * At 732 AM CDT, severe thunderstorms were located along a line extending from 10 miles east of Milan to 6 miles east of Montevideo to near Hanley Falls, moving northeast at 65 mph.

THESE ARE DESTRUCTIVE STORMS FOR CLARA CITY.

HAZARD...Baseball size hail.

SOURCE...Radar indicated.

IMPACT...People and animals outdoors will be severely injured.
Expect shattered windows, extensive damage to roofs,
siding, and vehicles.

- * Severe thunderstorms will be near...
Benson around 740 AM CDT.
Clara City and Murdock around 745 AM CDT.
Kerkhoven around 750 AM CDT.
Raymond and Prinsburg around 755 AM CDT.
Willmar around 800 AM CDT.
New London, Spicer and Brooten around 805 AM CDT.
Belgrade around 810 AM CDT.
Atwater around 815 AM CDT.

Other locations impacted by these severe thunderstorms include Benson Airport, Swift Falls, Kandiyohi, Willmar Airport, Thorpe, De Graff, Blomkest, Padua, Regal and Minnesota Falls.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

These storms are producing destructive winds and large damaging hail. A trained weather spotter reported tennis ball size hail. SEEK SHELTER NOW inside a sturdy structure and stay away from windows!
&&

LAT...LON 4533 9569 4567 9503 4541 9476 4489 9476
4474 9546 4475 9548 4499 9545
TIME...MOT...LOC 1232Z 233DEG 56KT 4516 9572 4496 9559 4474 9556

THUNDERSTORM DAMAGE THREAT...DESTRUCTIVE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...2.75 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...<50 MPH

\$\$

3. Tornado Warning (TOR)

a. IBW Tag: "Base"

Radar indicated; no visual confirmation

WFUS55 KBYZ 192348

TORBYZ
MTC011-200015-
/O.NEW.KBYZ.TO.W.0001.220619T2348Z-220620T0015Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Billings MT
548 PM MDT Sun Jun 19 2022

The National Weather Service in Billings has issued a

- * Tornado Warning for...
Southeastern Carter County in southeastern Montana...
- * Until 615 PM MDT.
- * At 547 PM MDT, a severe thunderstorm capable of producing a tornado was located 13 miles east of Lightning Flat, or 42 miles southeast of Broadus, moving northeast at 50 mph.

HAZARD...Tornado and hail up to two inches in diameter.

SOURCE...Radar indicated rotation.

IMPACT...Flying debris will be dangerous to those caught without shelter. Mobile homes will be damaged or destroyed. Damage to roofs, windows, and vehicles will occur. Tree damage is likely.

- * This tornadic thunderstorm will remain over mainly rural areas of southeastern Carter County, including the following locations...
Albion.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

&&

LAT...LON 4500 10444 4500 10492 4507 10495 4538 10439
4506 10409
TIME...MOT...LOC 2347Z 243DEG 43KT 4504 10476

TORNADO...RADAR INDICATED
MAX HAIL SIZE...2.00 IN

\$\$

Visual confirmation

WFUS54 KOUN 022115
TOROUN
OKC011-073-022200-
/O.NEW.KOUN.TO.W.0021.220502T2115Z-220502T2200Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Norman OK
415 PM CDT Mon May 2 2022

The National Weather Service in Norman has issued a

- * Tornado Warning for...
Northern Kingfisher County in central Oklahoma...
East central Blaine County in northwestern Oklahoma...
- * Until 500 PM CDT.
- * At 415 PM CDT, a confirmed tornado was located 6 miles west of Loyal, moving northeast at 10 mph.

HAZARD...Damaging tornado and golf ball size hail.

SOURCE...Weather spotters confirmed tornado.

IMPACT...Flying debris will be dangerous to those caught without shelter. Mobile homes will be damaged or destroyed. Damage to roofs, windows, and vehicles will occur. Tree damage is likely.

- * Locations impacted include...
Hennessey, Dover, Hitchcock, Loyal and Lacey.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a tornado is on the ground. TAKE COVER NOW! Move to a storm shelter, safe room or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

&&

LAT...LON 3596 9778 3585 9815 3596 9836 3617 9799
3617 9790
TIME...MOT...LOC 2115Z 242DEG 10KT 3594 9822

TORNADO...OBSERVED
MAX HAIL SIZE...1.75 IN

\$\$

b. IBW Tag: "Considerable"

Radar indicated; no visual confirmation

WFUS54 KSHV 022102
TORSHV
LAC021-059-022145-
/O.NEW.KSHV.TO.W.0048.170402T2102Z-170402T2145Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Shreveport LA
402 PM CDT SUN APR 2 2017

The National Weather Service in Shreveport has issued a

- * Tornado Warning for...
Southern Caldwell Parish in north central Louisiana...
Northeastern La Salle Parish in north central Louisiana...
- * Until 445 PM CDT
- * At 401 PM CDT, a large and extremely dangerous tornado was located near Midway, or 22 miles northeast of Pineville, moving northeast at 40 mph.

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Damaging tornado.

SOURCE...Radar indicated rotation.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

- * The tornado will be near...
Jena around 410 PM CDT.
Midway around 415 PM CDT.

Other locations impacted by this tornadic thunderstorm include Nebo.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous and potentially deadly tornado is developing. To protect your life, TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

&&

LAT...LON 3172 9201 3166 9204 3155 9215 3160 9228
3193 9212 3192 9201
TIME...MOT...LOC 2101Z 209DEG 35KT 3160 9219

TORNADO...RADAR INDICATED
TORNADO DAMAGE THREAT...CONSIDERABLE
HAIL. 1.75IN

\$\$

Visual confirmation

WFUS53 KICT 300230
TORICT
KSC015-073-300315-
/O.NEW.KICT.TO.W.0007.220430T0230Z-220430T0315Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Wichita KS
930 PM CDT Fri Apr 29 2022

The National Weather Service in Wichita has issued a

- * Tornado Warning for...
East central Butler County in south central Kansas...
Northwestern Greenwood County in southeastern Kansas...
- * Until 1015 PM CDT.
- * At 930 PM CDT, a confirmed large and extremely dangerous tornado was located 15 miles east of El Dorado, moving northeast at 25 mph.

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Damaging tornado.

SOURCE...Weather spotters confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile

homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

* This tornadic thunderstorm will remain over mainly rural areas of east central Butler and northwestern Greenwood Counties, including the following location...Rosalia.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Tornadoes are extremely difficult to see and confirm at night. Do not wait to see or hear the tornado. TAKE COVER NOW!

&&

LAT...LON 3780 9661 3793 9668 3809 9634 3792 9633
TIME...MOT...LOC 0230Z 233DEG 22KT 3786 9658

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CONSIDERABLE
MAX HAIL SIZE...1.50 IN

\$\$

c. **IBW Tag: "Catastrophic" (Tornado Emergency)**

Radar indicated; no visual confirmation

WFUS52 KFFC 260414
TORFFC
GAC077-260500-
/O.NEW.KFFC.TO.W.0016.210326T0414Z-210326T0500Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Peachtree City GA
1214 AM EDT Fri Mar 26 2021

...TORNADO EMERGENCY FOR NEWNAN...

The National Weather Service in Peachtree City has issued a

* Tornado Warning for...

North central Coweta County in west central Georgia...

* Until 100 AM EDT.

* At 1214 AM EDT, a confirmed large and destructive tornado was observed over Thomas Crossroads, or near Newnan, moving northeast at 50 mph.

TORNADO EMERGENCY for NEWNAN. This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Deadly tornado.

SOURCE...Radar confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

* Locations impacted include...
Newnan and Madras.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous and potentially deadly tornado is on the ground. To protect your life, TAKE COVER NOW! Move to an interior room on the lowest floor of a sturdy building. Avoid windows. If in a mobile home, a vehicle or outdoors, move to the closest substantial shelter and protect yourself from flying debris.

Tornadoes are extremely difficult to see and confirm at night. Do not wait to see or hear the tornado. TAKE COVER NOW!

If you see wind damage...hail or flooding...wait until the storm has passed...and then call the National Weather Service toll free at 1 8 6 6 7 6 3 4 4 6 6 or tweet us your report at NWSATLANTA.

&&

LAT...LON 3335 8475 3346 8483 3349 8476 3339 8467
3336 8468

TIME...MOT...LOC 0414Z 244DEG 43KT 3340 8471

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CATASTROPHIC
HAIL. 1.50IN

\$\$

Visual confirmation

WFUS54 KBMX 252216
TORBMX
ALC007-252245-
/O.NEW.KBMX.TO.W.0062.210325T2216Z-210325T2245Z/

BULLETIN - EAS ACTIVATION REQUESTED
Tornado Warning
National Weather Service Birmingham AL
516 PM CDT Thu Mar 25 2021

...TORNADO EMERGENCY FOR EASTERN BIBB COUNTY...

The National Weather Service in Birmingham has issued a

* Tornado Warning for...
Southeastern Bibb County in central Alabama...

* Until 545 PM CDT.

* At 515 PM CDT, a confirmed large and destructive tornado was
observed near Centreville, moving east at 50 mph.

TORNADO EMERGENCY for EASTERN BIBB COUNTY, ASHBY, AND BRIERFIELD.
This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Deadly tornado.

SOURCE...Weather spotters confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris
may be deadly to those caught without shelter. Mobile
homes will be destroyed. Considerable damage to homes,
businesses, and vehicles is likely and complete
destruction is possible.

* Locations impacted include...
Centreville, Brierfield Ironworks Park, Ashby, Trio, Six Mile and
Bibb County Airport.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous and potentially deadly tornado
is on the ground. To protect your life, TAKE COVER NOW! Move to an
interior room on the lowest floor of a sturdy building. Avoid
windows. If in a mobile home, a vehicle or outdoors, move to the
closest substantial shelter and protect yourself from flying debris.

&&

LAT...LON 3307 8693 3306 8692 3306 8690 3305 8690
3305 8688 3293 8688 3290 8710 3301 8712
TIME...MOT...LOC 2215Z 248DEG 44KT 3295 8707

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CATASTROPHIC
HAIL...<.75IN

\$\$

4. Severe Weather Statement (SVS)

a. IBW Tag: "Base" SVR

WWUS54 KBRO 221648
SVSBRO

Severe Weather Statement
National Weather Service Brownsville TX
1148 AM CDT Sun May 22 2022

TXC505-221715-
/O.CON.KBRO.SV.W.0018.000000T0000Z-220522T1715Z/
Zapata TX-
1148 AM CDT Sun May 22 2022

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 1215 PM CDT
FOR CENTRAL ZAPATA COUNTY...

At 1147 AM CDT, a severe thunderstorm was located 7 miles south of
Bustamante and near Zapata, moving southeast at 25 mph.

HAZARD...60 mph wind gusts and quarter size hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to
roofs, siding, and trees.

Locations impacted include...

Zapata, Bustamante, Medina, Zapata High School, Zapata County Fire
Department, Zapata Middle School, Siesta Shores, Zapata County Public
Library, Las Palmas and Falcon Mesa.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a
building.

Continuous cloud to ground lightning is occurring with this storm.
Move indoors immediately. Lightning is one of nature's leading
killers. Remember, if you can hear thunder, you are close enough to
be struck by lightning.

Torrential rainfall is occurring with this storm, and may lead to
flash flooding. Do not drive your vehicle through flooded roadways.

&&

LAT...LON 2713 9919 2695 9895 2689 9895 2670 9921
2672 9921 2675 9924 2679 9924 2682 9926

2685 9927 2686 9929 2686 9931 2690 9933
2692 9932 2692 9934 2701 9939
TIME...MOT...LOC 1647Z 314DEG 20KT 2690 9913

HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...1.00 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

b. IBW Tag: "Base" SVR with partial cancellation

WWUS55 KBYZ 040143
SVSBYZ

Severe Weather Statement
National Weather Service Billings MT
743 PM MDT Sun Jul 3 2022

MTC087-040152-
/O.CAN.KBYZ.SV.W.0035.000000T0000Z-220704T0215Z/
Rosebud MT-
743 PM MDT Sun Jul 3 2022

...THE SEVERE THUNDERSTORM WARNING FOR SOUTHERN ROSEBUD COUNTY IS
CANCELLED...

The severe thunderstorm which prompted the warning has moved out of
the warned area. Therefore, the warning has been cancelled.

A Severe Thunderstorm Watch remains in effect until 1100 PM MDT for
southeastern Montana.

LAT...LON 4532 10621 4564 10621 4544 10563 4525 10594
TIME...MOT...LOC 0142Z 208DEG 24KT 4545 10613

\$\$

MTC075-040215-
/O.CON.KBYZ.SV.W.0035.000000T0000Z-220704T0215Z/
Powder River MT-
743 PM MDT Sun Jul 3 2022

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 815 PM MDT
FOR WEST CENTRAL POWDER RIVER COUNTY...

At 742 PM MDT, a severe thunderstorm was located 14 miles southeast of
Ashland, or 35 miles west of Broadus, moving northeast at 30 mph.

HAZARD...60 mph wind gusts and quarter size hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to roofs, siding, and trees.

Locations impacted include...
Sonnette.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

Torrential rainfall is occurring with this storm, and may lead to flash flooding. Do not drive your vehicle through flooded roadways.

&&

LAT...LON 4532 10621 4564 10621 4544 10563 4525 10594
TIME...MOT...LOC 0142Z 208DEG 24KT 4545 10613

HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...1.00 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...60 MPH

\$\$

c. IBW Tag: "Base" SVR with inclusion of qualifying severe weather report

WWUS53 KSGF 080107
SVSSGF

Severe Weather Statement
National Weather Service Springfield MO
807 PM CDT Tue Sep 7 2021

KSC021-037-080145-
/O.CON.KSGF.SV.W.0127.000000T0000Z-210908T0145Z/
Cherokee KS-Crawford KS-
807 PM CDT Tue Sep 7 2021

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 845 PM CDT FOR CHEROKEE AND SOUTHERN CRAWFORD COUNTIES...

At 805 PM CDT, a severe thunderstorm was located over Cherokee, or 9 miles southwest of Pittsburg, moving south at 30 mph.

HAZARD...60 mph wind gusts and half dollar size hail.

SOURCE...Public. At 7:55 PM, quarter sized hail was reported five miles southwest of Girard.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to roofs, siding, and trees.

This severe storm will be near...

Weir around 810 PM CDT.

Scammon and West Mineral around 815 PM CDT.

Columbus around 830 PM CDT.

Baxter Springs and Treece around 855 PM CDT.

Other locations impacted by this severe thunderstorm include Lowell, Sherman, Chicopee, Roseland, Neutral, Melrose, Beulah, Riverton, Carona and Lone Oak.

This includes Interstate 44 near mile marker 0.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a building.

Continuous cloud to ground lightning is occurring with this storm. Move indoors immediately. Lightning is one of nature's leading killers. Remember, if you can hear thunder, you are close enough to be struck by lightning.

&&

LAT...LON 3745 9509 3752 9470 3700 9462 3700 9507

TIME...MOT...LOC 0105Z 351DEG 26KT 3735 9486

HAIL THREAT...OBSERVED

MAX HAIL SIZE...1.25 IN

WIND THREAT...RADAR INDICATED

MAX WIND GUST...60 MPH

\$\$

d. IBW Tag: "Considerable" SVR

WWUS51 KBGM 011948

SVSBGM

Severe Weather Statement

National Weather Service Binghamton NY

348 PM EDT Wed Jun 1 2022

NYC007-PAC115-012015-
/O.CON.KBGM.SV.W.0041.000000T0000Z-220601T2015Z/
Broome NY-Susquehanna PA-
348 PM EDT Wed Jun 1 2022

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 415 PM EDT
FOR SOUTHWESTERN BROOME AND NORTHWESTERN SUSQUEHANNA COUNTIES...

At 348 PM EDT, a severe thunderstorm was located over Vestal, or near
Endicott, moving southeast at 20 mph.

HAZARD...Two inch hail and 70 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...People and animals outdoors will be injured. Expect hail
damage to roofs, siding, windows, and vehicles. Expect
considerable tree damage. Wind damage is also likely to
mobile homes, roofs, and outbuildings.

Locations impacted include...
Binghamton, Vestal, Johnson City, Endicott, Vestal Center, Endwell,
Brackney and West Corners.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

For your protection, move to an interior room on the lowest floor of a
building.

&&

LAT...LON 4200 7610 4206 7611 4213 7611 4214 7594
4198 7583 4195 7612
TIME...MOT...LOC 1948Z 337DEG 19KT 4207 7601

THUNDERSTORM DAMAGE THREAT...CONSIDERABLE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...2.00 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...70 MPH

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e. **IBW Tag: "Destructive" SVR**

WWUS53 KMPX 122336
SVSMPX

Severe Weather Statement
National Weather Service Twin Cities/Chanhassen MN
636 PM CDT Thu May 12 2022

MNC023-067-121-149-151-130000-
/O.CON.KMPX.SV.W.0115.000000T0000Z-220513T0000Z/
Pope MN-Chippewa MN-Stevens MN-Swift MN-Kandiyohi MN-
636 PM CDT Thu May 12 2022

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 700 PM CDT
FOR POPE...CHIPPEWA...STEVENS...SWIFT AND NORTHWESTERN KANDIYOHI
COUNTIES...

At 635 PM CDT, severe thunderstorms were located along a line
extending from near Johnson to 5 miles southwest of Hancock to 5
miles west of Raymond, moving north at 75 mph.

THESE ARE DESTRUCTIVE STORMS FOR BENSON AND MORRIS.

HAZARD...90 mph wind gusts.

SOURCE...Radar indicated.

IMPACT...You are in a life-threatening situation. Flying debris may
be deadly to those caught without shelter. Mobile homes
will be heavily damaged or destroyed. Homes and businesses
will have substantial roof and window damage. Expect
extensive tree damage and power outages.

These severe storms will be near...
Hancock and Chokio around 640 PM CDT.
Morris, Cyrus and Murdock around 645 PM CDT.
Donnelly around 650 PM CDT.
Brooten around 700 PM CDT.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

This is an EXTREMELY DANGEROUS SITUATION. These storms are producing
widespread wind damage across western Minnesota. SEEK SHELTER NOW
inside a sturdy structure and stay away from windows.

A Tornado Watch remains in effect until midnight CDT for central and
west central Minnesota.

&&

LAT...LON 4575 9625 4576 9514 4533 9512 4489 9525
4489 9548 4477 9549 4477 9551 4480 9551
4491 9568 4491 9572 4493 9573 4495 9580
4516 9604 4518 9610 4541 9612 4542 9625
TIME...MOT...LOC 2335Z 199DEG 64KT 4551 9630 4543 9584 4505 9534

THUNDERSTORM DAMAGE THREAT...DESTRUCTIVE
HAIL THREAT...RADAR INDICATED
MAX HAIL SIZE...<.75 IN
WIND THREAT...RADAR INDICATED
MAX WIND GUST...90 MPH

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f. IBW Tag: "Base" TOR

WWUS53 KMQT 302350
SVSMQT

Severe Weather Statement
National Weather Service Marquette MI
750 PM EDT Thu Jun 30 2022

MIC103-010000-
/O.CON.KMQT.TO.W.0001.000000T0000Z-220701T0000Z/
Marquette MI-
750 PM EDT Thu Jun 30 2022

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 800 PM EDT FOR NORTHERN
MARQUETTE COUNTY...

At 750 PM EDT, a severe thunderstorm capable of producing a tornado
was located near Little Presque Isle, or 9 miles northwest of Presque
Isle, moving east at 50 mph.

HAZARD...Tornado and quarter size hail.

SOURCE...Radar indicated rotation.

IMPACT...Flying debris will be dangerous to those caught without
shelter. Mobile homes will be damaged or destroyed. Damage
to roofs, windows, and vehicles will occur. Tree damage is
likely.

This tornadic thunderstorm will remain over mainly rural areas of
northern Marquette County.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW! Move to a basement or an interior room on the lowest
floor of a sturdy building. Avoid windows. If you are outdoors, in a
mobile home, or in a vehicle, move to the closest substantial shelter
and protect yourself from flying debris.

&&

LAT...LON 4667 8756 4673 8758 4676 8746 4666 8746
TIME...MOT...LOC 2350Z 265DEG 42KT 4670 8749

TORNADO...RADAR INDICATED
MAX HAIL SIZE...1.00 IN

\$\$

g. IBW Tag: "Base" TOR with partial cancellation

WWUS52 KTAE 091108
SVSTAE

Severe Weather Statement
National Weather Service Tallahassee FL
508 AM CST Wed Mar 9 2022

FLC059-091118-
/O.CAN.KTAE.TO.W.0006.000000T0000Z-220309T1200Z/
Holmes FL-
508 AM CST Wed Mar 9 2022

...THE TORNADO WARNING FOR SOUTHEASTERN HOLMES COUNTY IS CANCELLED...

The tornadic thunderstorm which prompted the warning has moved out of the warned area. Therefore, the warning has been cancelled.

A Tornado Watch remains in effect until 800 AM CST for the Panhandle of Florida.

LAT...LON 3077 8562 3080 8560 3085 8560 3091 8557
3093 8528 3073 8533 3074 8562
TIME...MOT...LOC 1108Z 273DEG 28KT 3081 8554

\$\$

FLC063-133-091200-
/O.CON.KTAE.TO.W.0006.000000T0000Z-220309T1200Z/
Jackson FL-Washington FL-
508 AM CST Wed Mar 9 2022

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 600 AM CST FOR NORTHWESTERN JACKSON AND NORTHEASTERN WASHINGTON COUNTIES...

At 508 AM CST, a severe thunderstorm capable of producing a tornado was located over Chipley, moving east at 30 mph.

HAZARD...Tornado.

SOURCE...Radar indicated rotation.

IMPACT...Flying debris will be dangerous to those caught without shelter. Mobile homes will be damaged or destroyed. Damage to roofs, windows, and vehicles will occur. Tree damage is likely.

This tornadic thunderstorm will remain over mainly rural areas of northwestern Jackson and northeastern Washington Counties, including the following locations...Richter Crossroads, Jacob City, Chipley Municipal Airport, Cottondale Airport, Cottondale, Jacobs, Bahoma and Kynesville.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

If a tornado or other severe weather is spotted, report it to the National Weather Service or your local nearest law enforcement agency who will send your report. This act may save lives of others in the path of dangerous weather.

&&

LAT...LON 3077 8562 3080 8560 3085 8560 3091 8557
3093 8528 3073 8533 3074 8562
TIME...MOT...LOC 1108Z 273DEG 28KT 3081 8554

TORNADO...RADAR INDICATED
MAX HAIL SIZE...<.75 IN

\$\$

h. TOR Expiration Statement

WWUS53 KARX 130227
SVSARX

Severe Weather Statement
National Weather Service La Crosse WI
927 PM CDT Tue Apr 12 2022

IAC067-130237-
/O.EXP.KARX.TO.W.0001.000000T0000Z-220413T0230Z/
Floyd IA-
927 PM CDT Tue Apr 12 2022

...THE TORNADO WARNING FOR NORTHWESTERN FLOYD COUNTY WILL EXPIRE AT

930 PM CDT...

The storm which prompted the warning has weakened below severe limits, and has exited the warned area. Therefore, the warning will be allowed to expire.

A Tornado Watch remains in effect until midnight CDT for north central Iowa.

LAT...LON 4321 9302 4321 9282 4312 9282 4311 9295
TIME...MOT...LOC 0227Z 265DEG 24KT 4319 9282

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i. IBW Tag: "Considerable" TOR

Radar indicated; no visual confirmation

WWUS54 KSHV 051853
SVSSHV

Severe Weather Statement
National Weather Service Shreveport LA
153 PM CDT Thu May 5 2022

TXC401-051915-
/O.CON.KSHV.TO.W.0046.000000T0000Z-220505T1915Z/
Rusk TX-
153 PM CDT Thu May 5 2022

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 215 PM CDT FOR EAST CENTRAL RUSK COUNTY...

At 153 PM CDT, a confirmed large and extremely dangerous tornado was located 7 miles northeast of Henderson, moving northeast at 25 mph.

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Damaging tornado.

SOURCE...Radar confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

Locations impacted include...
Church Hill.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous and potentially deadly tornado is on the ground. To protect your life, TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

Heavy rainfall may hide this tornado. Do not wait to see or hear the tornado. TAKE COVER NOW!

&&

LAT...LON 3227 9460 3220 9458 3216 9458 3217 9470
3221 9472
TIME...MOT...LOC 1853Z 237DEG 21KT 3220 9469

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CONSIDERABLE
MAX HAIL SIZE...1.00 IN

\$\$

Visual confirmation

WWUS54 KMAF 242332
SVSMAF

Severe Weather Statement
National Weather Service Midland/Odessa TX
632 PM CDT Tue May 24 2022

TXC173-242345-
/O.CON.KMAF.TO.W.0015.000000T0000Z-220524T2345Z/
Glasscock TX-
632 PM CDT Tue May 24 2022

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 645 PM CDT FOR
SOUTHEASTERN GLASSCOCK COUNTY...

At 630 PM CDT, a confirmed large and extremely dangerous tornado was located 7 miles southeast of Garden City, moving east at 40 mph.

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Damaging tornado.

SOURCE...Public confirmed tornado. At intersection of CR130 and

CR150. Additionally, another possible tornado at Highway 137 and Highway 158.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

This tornadic thunderstorm will remain over mainly rural areas of southeastern Glasscock County.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous and potentially deadly tornado is on the ground. To protect your life, TAKE COVER NOW! Move to a basement or an interior room on the lowest floor of a sturdy building. Avoid windows. If you are outdoors, in a mobile home, or in a vehicle, move to the closest substantial shelter and protect yourself from flying debris.

Torrential rainfall is occurring with this storm, and may lead to flash flooding. Do not drive your vehicle through flooded roadways.

&&

LAT...LON 3177 10154 3191 10157 3189 10127 3165 10127
TIME...MOT...LOC 2330Z 287DEG 36KT 3180 10137

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CONSIDERABLE
MAX HAIL SIZE...2.75 IN

\$\$

j. IBW Tag: "Catastrophic" (Tornado Emergency)

Radar indicated; no visual confirmation

WWUS54 KBMX 252154
SVSBMX

Severe Weather Statement
National Weather Service Birmingham AL
454 PM CDT Thu Mar 25 2021

ALC007-105-252230-
/O.CON.KBMX.TO.W.0058.000000T0000Z-210325T2230Z/
Perry AL-Bibb AL-
454 PM CDT Thu Mar 25 2021

...TORNADO EMERGENCY FOR CENTREVILLE AND BRENT...

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 530 PM CDT FOR NORTH CENTRAL PERRY AND SOUTHERN BIBB COUNTIES...

At 453 PM CDT, a confirmed large and destructive tornado was located near Mertz, or 13 miles southwest of Brent, moving east at 55 mph.

TORNADO EMERGENCY for CENTREVILLE AND BRENT and other locations in the warning. This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Deadly tornado.

SOURCE...Radar confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

Locations impacted include...

Brent, Centreville, Eoline, Ashby, Brierfield Ironworks Park, West Centreville, Mertz, Trio, Ellards, Six Mile and Bibb County Airport.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous, and potentially deadly tornado is on the ground. To protect your life, TAKE COVER NOW! Move to an interior room on the lowest floor of a sturdy building. Avoid windows. If in a mobile home, a vehicle or outdoors, move to the closest substantial shelter and protect yourself from flying debris.

&&

LAT...LON 3293 8742 3295 8735 3297 8730 3300 8723
3305 8708 3306 8699 3306 8693 3305 8688
3295 8688 3283 8715 3279 8730 3281 8741
3283 8742

TIME...MOT...LOC 2153Z 250DEG 46KT 3285 8737

TORNADO...OBSERVED

TORNADO DAMAGE THREAT...CATASTROPHIC

HAIL...<.75IN

\$\$

Visual confirmation

WWUS52 KCHS 052006
SVSCHS

Severe Weather Statement
National Weather Service Charleston SC
406 PM EDT Tue Apr 5 2022

SCC005-052015-
/O.CON.KCHS.TO.W.0001.000000T0000Z-220405T2015Z/
Allendale SC-
406 PM EDT Tue Apr 5 2022

...TORNADO EMERGENCY FOR SYCAMORE...

...A TORNADO WARNING REMAINS IN EFFECT UNTIL 415 PM EDT FOR PORTIONS
OF ALLENDALE COUNTY...

At 405 PM EDT, a confirmed large and destructive tornado was located
over Allendale, moving northeast at 30 mph.

TORNADO EMERGENCY for SYCAMORE. This is a PARTICULARLY DANGEROUS
SITUATION. TAKE COVER NOW!

HAZARD...Deadly tornado.

SOURCE...Law enforcement confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may
be deadly to those caught without shelter. Mobile homes
will be destroyed. Considerable damage to homes,
businesses, and vehicles is likely and complete destruction
is possible.

Locations impacted include:
Allendale, Fairfax, Sycamore, Ulmer and Seigling.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

To repeat, a large, extremely dangerous, and potentially deadly
tornado is on the ground. To protect your life, TAKE COVER NOW! Move
to an interior room on the lowest floor of a sturdy building. Avoid
windows. If in a mobile home, a vehicle or outdoors, move to the
closest substantial shelter and protect yourself from flying debris.

Report damage directly to the Charleston National Weather Service at
888-383-2024 when it is safe to do so.

&&

LAT...LON 3308 8133 3312 8120 3305 8113 3304 8109
3302 8109 3294 8124 3303 8135
TIME...MOT...LOC 2005Z 233DEG 28KT 3301 8128

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CATASTROPHIC
MAX HAIL SIZE...1.00 IN

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5. Watch County Notification Message (WCN)

Initial Issuance

WWUS64 KOUN 100025
WCNOUN

WATCH COUNTY NOTIFICATION FOR WATCH 338
NATIONAL WEATHER SERVICE NORMAN OK
725 PM CDT THU JUN 9 2022

OKC009-015-031-033-039-045-055-057-065-075-129-141-149-TXC009-023-077-
155-197-275-485-487-100700-
/O.NEW.KOUN.SV.A.0338.220610T0025Z-220610T0700Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH 338
IN EFFECT UNTIL 2 AM CDT FRIDAY FOR THE FOLLOWING AREAS

IN OKLAHOMA THIS WATCH INCLUDES 13 COUNTIES

IN NORTHWEST OKLAHOMA

ELLIS

IN SOUTHWEST OKLAHOMA

CADDO	COMANCHE	COTTON
GREER	HARMON	JACKSON
KIOWA	TILLMAN	

IN WESTERN OKLAHOMA

BECKHAM	CUSTER	ROGER MILLS
WASHITA		

IN TEXAS THIS WATCH INCLUDES 8 COUNTIES

IN NORTHERN TEXAS

ARCHER	BAYLOR	CLAY
FOARD	HARDEMAN	KNOX
WICHITA	WILBARGER	

THIS INCLUDES THE CITIES OF ALTUS, ANADARKO, ARCHER CITY, ARNETT,
BURNS FLAT, CHEYENNE, CLINTON, CORDELL, CROWELL, ELK CITY, FARGO,
FREDERICK, GAGE, GRANITE, HAMMON, HENRIETTA, HINTON, HOBART, HOLLIDAY,
HOLLIS, KNOX CITY, LAKESIDE CITY, LAWTON, MANGUM, MUNDAY, QUANAH,
SAYRE, SCOTLAND, SENTINEL, SEYMOUR, SHATTUCK, SHEPPARD AFB, SNYDER,
TEMPLE, VERNON, WALTERS, WEATHERFORD AND WICHITA FALLS.

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Clearing Counties - One Watch in Effect

WWUS61 KCTP 122002
WCNCTP

WATCH COUNTY NOTIFICATION FOR WATCH 461
NATIONAL WEATHER SERVICE STATE COLLEGE PA
402 PM EDT TUE JUL 12 2022

PAC009-013-021-057-061-111-122115-
/O.CAN.KCTP.SV.A.0461.000000T0000Z-220712T2300Z/

THE NATIONAL WEATHER SERVICE HAS CANCELLED SEVERE THUNDERSTORM
WATCH 461 FOR THE FOLLOWING AREAS

IN PENNSYLVANIA THIS CANCELS 6 COUNTIES

IN CENTRAL PENNSYLVANIA

BEDFORD	BLAIR	CAMBRIA
FULTON	HUNTINGDON	SOMERSET

THIS INCLUDES THE CITIES OF ALTOONA, BEDFORD, HUNTINGDON,
JOHNSTOWN, MCCONNELLSBURG, MOUNT UNION AND SOMERSET.

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PAC001-037-041-043-055-067-071-075-087-093-097-099-107-109-119-
133-122300-
/O.CON.KCTP.SV.A.0461.000000T0000Z-220712T2300Z/

SEVERE THUNDERSTORM WATCH 461 REMAINS VALID UNTIL 7 PM EDT THIS
EVENING FOR THE FOLLOWING AREAS

IN PENNSYLVANIA THIS WATCH INCLUDES 16 COUNTIES

IN CENTRAL PENNSYLVANIA

ADAMS	COLUMBIA	CUMBERLAND
DAUPHIN	FRANKLIN	JUNIATA
LANCASTER	LEBANON	MIFFLIN
MONTOUR	NORTHUMBERLAND	PERRY
SCHUYLKILL	SNYDER	UNION
YORK		

THIS INCLUDES THE CITIES OF BERWICK, BLOOMSBURG, CARLISLE,
CHAMBERSBURG, DANVILLE, GETTYSBURG, HARRISBURG, HERSHEY, LANCASTER,
LEBANON, LEWISBURG, LEWISTOWN, MIFFLINTOWN, NEWPORT, POTTSVILLE,
SELINGROVE, SHAMOKIN, SUNBURY, WAYNESBORO AND YORK.

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Watch Cancellation

WWUS63 KICT 100854
WCNICT

WATCH COUNTY NOTIFICATION FOR WATCH 339
NATIONAL WEATHER SERVICE WICHITA KS
354 AM CDT FRI JUN 10 2022

KSC009-015-019-035-049-053-077-079-095-113-155-159-167-173-191-
101000-
/O.CAN.KICT.SV.A.0339.000000T0000Z-220610T1300Z/

THE NATIONAL WEATHER SERVICE HAS CANCELLED SEVERE THUNDERSTORM WATCH
339 FOR THE FOLLOWING AREAS

IN KANSAS THIS CANCELS 15 COUNTIES

IN CENTRAL KANSAS

BARTON	ELLSWORTH	MCPHERSON
RICE	RUSSELL	

IN SOUTH CENTRAL KANSAS

BUTLER	COWLEY	HARPER
HARVEY	KINGMAN	RENO
SEDGWICK	SUMNER	

IN SOUTHEAST KANSAS

CHAUTAUQUA	ELK
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THIS INCLUDES THE CITIES OF ANDOVER, ANTHONY, ARKANSAS CITY, ATTICA,
AUGUSTA, BEL AIRE, CEDAR VALE, DERBY, EL DORADO, ELLSWORTH, GREAT
BEND, GRENOLA, HARPER, HAYSVILLE, HOWARD, HUTCHINSON, KINGMAN,
LONGTON, LYONS, MCPHERSON, MOLINE, NEWTON, PARK CITY, ROSE HILL,
RUSSELL, SEDAN, STERLING, VALLEY CENTER, WELLINGTON, WICHITA, WILSON
AND WINFIELD.

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Second Watch Issued While First Watch Remains in Effect

WWUS62 KGSP 171444
WCNGSP

WATCH COUNTY NOTIFICATION FOR WATCHES 443/444
NATIONAL WEATHER SERVICE GREENVILLE-SPARTANBURG SC
1044 AM EDT TUE AUG 17 2021

GAC241-NCC021-023-045-087-089-099-111-113-115-121-149-161-175-199-
SCC001-007-021-045-047-059-073-077-083-087-172300-
/O.NEW.KGSP.TO.A.0444.210817T1444Z-210817T2300Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED TORNADO WATCH 444 IN EFFECT
UNTIL 7 PM EDT THIS EVENING FOR THE FOLLOWING AREAS

IN GEORGIA THIS WATCH INCLUDES 1 COUNTY

IN NORTHEAST GEORGIA

RABUN

IN NORTH CAROLINA THIS WATCH INCLUDES 14 COUNTIES

IN PIEDMONT NORTH CAROLINA

CLEVELAND

IN WESTERN NORTH CAROLINA

BUNCOMBE	BURKE	HAYWOOD
HENDERSON	JACKSON	MACON
MADISON	MCDOWELL	MITCHELL
POLK	RUTHERFORD	TRANSYLVANIA
YANCEY		

IN SOUTH CAROLINA THIS WATCH INCLUDES 10 COUNTIES

IN UPSTATE SOUTH CAROLINA

ABBEVILLE	ANDERSON	CHEROKEE
GREENVILLE	GREENWOOD	LAURENS
OCONEE	PICKENS	SPARTANBURG
UNION SC		

THIS INCLUDES THE CITIES OF ABBEVILLE, ALLENSTAND, ANDERSON,
ASHEVILLE, ASHFORD, BEREAL, BLACK MOUNTAIN, BREVARD, BURNSVILLE,
BUSICK, CALHOUN FALLS, CANDLER, CANTON, CEDAR MOUNTAIN, CELO, CLAYTON,
CLEMSON, CLINTON, COLUMBUS, COVE CREEK, CRUSO, CULLOWHEE, DACUSVILLE,
DANA, DYSARTSVILLE, EASLEY, EAST FLAT ROCK, ETOWAH, FAUST, FERRO,
FLETCHER, FOREST CITY, FORK SHOALS, FRANKLIN, GAFFNEY, GLENWOOD,

GREENVILLE, GREER, HENDERSONVILLE, HIGHLANDS, HOT SPRINGS, KINGS MOUNTAIN, KYLE, LAURENS, LITTLE RIVER, LUCK, MARION, MARS HILL, MARSHALL, MAULDIN, MICAVILLE, MILL SPRING, MONARCH MILLS, MORGANTON, MOUNTAIN CITY, MOUNTAIN REST, NEBO, NINETY SIX, OAKWAY, PINE MOUNTAIN, PLEASANT GROVE, POPLAR, RAINBOW SPRINGS, RAMSEYTOWN, RUTHERFORDTON, SALUDA, SENECA, SHELBY, SIMPSONVILLE, SPARTANBURG, SPINDALE, SPRUCE PINE, SUGAR HILL, SWISS, SYLVA, TAYLORS, TRYON, TUCKASEGEE, TUXEDO, UNION, VALDESE, WALHALLA, WALNUT, WARE SHOALS, WATERVILLE, WAYNESVILLE AND WESTMINSTER.

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GAC105-119-137-147-257-171700-
/O.CON.KGSP.TO.A.0443.000000T0000Z-210817T1700Z/

TORNADO WATCH 443 REMAINS VALID UNTIL 1 PM EDT THIS AFTERNOON FOR THE FOLLOWING AREAS

IN GEORGIA THIS WATCH INCLUDES 5 COUNTIES

IN NORTHEAST GEORGIA

ELBERT	FRANKLIN	HABERSHAM
HART	STEPHENS	

THIS INCLUDES THE CITIES OF BALDWIN, BOYDVILLE, CANON, CLARKESVILLE, CORNELIA, DEMOREST, ELBERTON, FORTSONIA, FRANKLIN SPRINGS, GUMLOG, HARTWELL, HOLLYWOOD, LAVONIA, MIDDLETON, NUBERG, REED CREEK, ROYSTON, RUCKERSVILLE AND TOCCOA.

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New Watch Issued Which Replaces an Old Watch and Partial Expiration of a Second Old Watch

WWUS64 KEWX 220356
WCNEWX

WATCH COUNTY NOTIFICATION FOR WATCHES 258/260
NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX
1056 PM CDT SAT MAY 21 2022

TXC091-209-453-220900-
/O.CAN.KEWX.SV.A.0258.000000T0000Z-220522T0400Z/
/O.NEW.KEWX.SV.A.0260.220522T0356Z-220522T0900Z/

THE NATIONAL WEATHER SERVICE HAS ISSUED SEVERE THUNDERSTORM WATCH 260 UNTIL 4 AM CDT SUNDAY WHICH REPLACES A PORTION OF SEVERE THUNDERSTORM WATCH 258. THE NEW WATCH IS VALID FOR THE FOLLOWING AREAS

LMZ740>742-060800-
/O.EXA.KLOT.SV.A.0030.000000T0000Z-220306T0800Z/

THE NATIONAL WEATHER SERVICE HAS EXTENDED SEVERE THUNDERSTORM WATCH 30
TO INCLUDE THE FOLLOWING AREAS UNTIL 2 AM CST SUNDAY

THIS WATCH INCLUDES THE FOLLOWING ADJACENT COASTAL WATERS

WINTHROP HARBOR TO WILMETTE HARBOR IL
WILMETTE HARBOR TO NORTHERLY ISLAND IL
NORTHERLY ISLAND TO CALUMET HARBOR IL

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ILC007-037-053-063-089-093-099-103-105-111-141-201-060800-
/O.CON.KLOT.SV.A.0030.000000T0000Z-220306T0800Z/

SEVERE THUNDERSTORM WATCH 30 REMAINS VALID UNTIL 2 AM CST SUNDAY FOR
THE FOLLOWING AREAS

IN ILLINOIS THIS WATCH INCLUDES 12 COUNTIES

IN CENTRAL ILLINOIS

LIVINGSTON

IN EAST CENTRAL ILLINOIS

FORD

IN NORTH CENTRAL ILLINOIS

BOONE	DE KALB	LA SALLE
LEE	OGLE	WINNEBAGO

IN NORTHEAST ILLINOIS

GRUNDY	KANE	KENDALL
MCHENRY		

THIS INCLUDES THE CITIES OF ALGONQUIN, AURORA, BELVIDERE, BYRON, COAL
CITY, CRYSTAL LAKE, DEKALB, DIXON, DWIGHT, ELGIN, FAIRBURY, GIBSON
CITY, LA SALLE, MARSEILLES, MCHENRY, MENDOTA, MINOOKA, MORRIS, OREGON,
OSWEGO, OTTAWA, PAXTON, PLANO, PONTIAC, ROCHELLE, ROCKFORD, STREATOR,
SYCAMORE, WOODSTOCK AND YORKVILLE.

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Partial Cancellation, Extension in Expiration Area and Time

IN TEXAS THIS WATCH INCLUDES 6 COUNTIES

IN SOUTH CENTRAL TEXAS

ATASCOSA
COMAL

BANDERA
KENDALL

BEXAR
MEDINA

THIS INCLUDES THE CITIES OF BANDERA, BOERNE, HONDO,
NEW BRAUNFELS, PLEASANTON, AND SAN ANTONIO.

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