

NATIONAL WEATHER SERVICE INSTRUCTION 10-501

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Operations and Services

Public Weather Services, NWSPD 10-5

WFO STATEMENTS, SUMMARIES, TABLES PRODUCTS SPECIFICATION

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SUMMARY OF REVISIONS: This directive supersedes NWSI 10-501, “*WFO Statements, Summaries, Tables Products Specification*,” dated October 11, 2017. The following revisions were made to this Instruction:

- 1) Added new section for Public Information Statement (PNS) for Post-Storm Damage Surveys (tornado and significant thunderstorm wind) along with specific format specifications.
- 2) Converted ALL caps to mixed case.
- 3) Appendix A: Added examples for PNS Storm Damage Surveys.

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1 Introduction

This procedural instruction describes narrative and tabular weather products issued by local Weather Forecast Offices (WFOs).

2 Public Information Statement (Product Category PNS) for Post-Storm Damage Surveys

2.1 Mission Connection

The Public Information Statement (PNS) for post-storm damage surveys is an event-driven alphanumeric message used to distribute information regarding post-storm damage survey results. The PNS is used by a wide variety of users and partners such as the general public, emergency managers, the media, and other governmental entities.

Information gained from post-storm damage surveys and relayed via the PNS product enables the National Weather Service (NWS) to increase the knowledge about hazardous weather events, determine how to better use existing equipment, improve NWS warning services, and provide accurate storm damage-related information to a wide variety of partners and users. This information often becomes the basis for entry into the official National Oceanic and Atmospheric Administration (NOAA)/NWS Storm Data publication that documents the occurrence of storms and other significant hazardous weather phenomena having sufficient intensity to cause loss of life, injuries, property damage, and/or disruption to commerce across the United States.

2.2 Issuance Guidelines

2.2.1 Creation Software

WFOs should use the Advanced Weather Interactive Processing System (AWIPS) Graphical Hazards Generation (GHG) program to issue a Post-Storm Damage Survey PNS.

2.2.2 Issuance Criteria

A post-storm damage survey should be issued after an NWS damage survey team confirms an event caused by a tornado, significant thunderstorm winds, or other weather-related damaging event(s). WFOs will use the PNS format described in Section 2.3.6. for post-storm damage surveys. WFOs should issue a PNS and any updates for these events, as frequently as key information about the event is gathered or received, to meet the time-sensitive data needs of internal and external users and partners. Significant thunderstorm wind events should be determined by the WFO on whether a post-storm survey is necessary. Refer to NWS Instruction (NWSI) 10-1604, Post-Storm Data Acquisition, for information on criteria and qualifications on post-storm damage surveys. However, if damage is surveyed, the WFO should issue a PNS with the results.

WFOs may also issue a generic, free-text narrative about the intentions to survey damage ahead of the actual surveying efforts. The content below the headline can be free or specified formatting, but the headline should follow the guidelines in Section 2.3.4 to maintain consistency with subsequent updates for the same surveyed event.

2.2.3 Issuance Time

The PNS for post-storm damage surveys is a non-scheduled product issued when appropriate.

2.2.4 Valid Time

The PNS is valid through the effective date or time period.

2.2.5 Product Expiration Time

The product expiration time of a PNS for post-storm damage surveys is usually up to 12–24 hours but may be up to 31 days depending upon product content.

2.2.6 Event Expiration Time

The PNS does not have an event expiration time.

2.3 Technical Description

2.3.1 UGC Type

The PNS will use Universal Geographic Code (UGC) Zone (Z) coding.

2.3.2 Mass News Disseminator (MND) Broadcast Instruction Line

There is no MND Broadcast Instruction Line for this product.

2.3.3 MND Product Type Line

This product will utilize “Public Information Statement,” or any other appropriate header may be used. For damage survey PNS issuances, the terms “Update” or “Correction” should not be added to the MND line. Updated or corrected information from a previous issuance should be noted in the headline with the term “Update #” (see example headlines below). An optional bulleted section (“Update...”), immediately following the headline, should include the basic details for the update or correction from a previous issuance.

2.3.4 Headline for Post-Storm Damage Survey PNS

WFOs will highlight the PNS for post-storm damage surveys for tornado and significant thunderstorm wind events with a headline appropriate for the event(s). Refer to the examples (a, b and c) below for the general headline format. The headline will begin and end with the three periods (ellipsis) and should include notation of NWS damage survey, event date, event type (e.g. tornado or significant thunderstorm wind or both – see example c), and the update number, if applicable. If the event is considered to span multiple consecutive dates, use the first date of the multi-day event in the headline and address the date of each event in the individual segments/event reports, if there are multiple surveyed events.

Note: There is no limit to the number of updates or corrections allowed for a particular survey as long as the changed information constitutes a substantive difference in the previous information, such as event time(s) or damage rating. Corrected information, such as the spelling of a location or adjusted coordinates or times is also considered substantive for an update. Information about the update, such as a general area (e.g. Southwest Oklahoma, Indianapolis Metropolitan Area, Northern Indiana, Greene County, etc.), a change in event timing, location information, or number of surveyed tornadoes should be captured in the “Update” and/or “Overview” sections (outlined in section 2.3.6.1), as appropriate.

Example headlines:

a) Tornadoes

...NWS Damage Survey for 05/25/19 Tornado event...
 ...NWS Damage Survey for 05/25/19 Tornado event - Update 1...
 ...NWS Damage Survey for 05/25/19 Tornado event - Update 2...

b) Thunderstorm Wind

...NWS Damage Survey for 05/25/19 Thunderstorm Wind event...
 ...NWS Damage Survey for 05/25/19 Thunderstorm Wind event - Update 1...
 ...NWS Damage Survey for 05/25/19 Thunderstorm Wind event - Update 2...

c) Tornado and Thunderstorm Wind Combined

...NWS Damage Survey for 05/25/19 Tornado and Thunderstorm Wind event...
 ...NWS Damage Survey for 05/25/19 Tornado and Thunderstorm Wind event - Update 1...
 ...NWS Damage Survey for 05/25/19 Tornado and Thunderstorm Wind event - Update 2...

2.3.5 Content

The PNS for post-storm damage surveys may contain various weather or NWS related information of public interest as described in Section 2.1.

2.3.6 Format

The PNS for post-storm damage survey results will use the format specified in sections 2.3.6.1, 2.3.6.1.1, and 2.3.6.1.2, based on the appropriate event type. The nature of the report (i.e., unofficial, preliminary, or final) should be stated in the explanatory text.

WFOs should consider issuing a generic format PNS (based on the format in section 3.3.5.1) once survey plans have been determined for events with multiple tornadoes and/or significant wind damage that occurred within their area of forecast responsibility, normally during the morning hours, the day after an event. This type of issuance should be a brief overview of survey plans. See example H in the Appendix. A similarly formatted PNS should be sent after surveys are completed in the event that more information is needed to determine a tornado rating, for instance, or if the survey results were inconclusive at that point, to update the public, media, and other external users. See example I in the Appendix.

2.3.6.1 Post-Storm Damage Survey Format Description

Following the headline(s), the PNS for post-storm damage surveys should contain up to six separate sections, with a section header for each, within the product body in the following order:

.Update...

The Update section is mandatory and should briefly describe the events that are being updated.

.Overview...

The Overview section is optional and should briefly describe the event causative factor, general geographic location, event date(s) of the tornado, significant thunderstorm wind or other events, and general findings. Information pertaining to storm survey scheduling may be included in the Overview.

.Tornado (or) Thunderstorm Wind (or) Other Event...

For consistency between issuances, all entries in the “Tornado,” “Thunderstorm Wind” (e.g.

derecho, downburst, macroburst, microburst, heatburst, etc.), or “Other Event” (e.g. gradient wind) tabular sections are mandatory and provide specific information regarding event ratings (for tornadoes), fatalities/injuries (if known and confirmed), the begin/end times and dates of the event in local time, and the begin/end points of the event related to geographic locations (Azimuth and Range (AZRAN) to city/town using 16 point compass/statute miles).

To enhance event location accuracy, WFOs will include the Decimal Degree Latitude / Longitude (LAT / LON) begin/end points of the event. Minimum allowed accuracy is to the second decimal point and a maximum up to the fourth decimal point.

For consistency between issuances, do not delete or modify components within Tornado, Thunderstorm Wind, or Other Event tabular sections of the PNS product. If more than one surveyed event appears in a single issuance, the ordering of events (from first to last) is determined by the local WFO. Tabular data that is unavailable at the time of issuance will be noted as “Pending.” Mandatory tabular data entries will follow established reporting protocols found in NWSI 10-1605 (Storm Data Preparation).

.Survey Summary...

The Survey Summary section is optional and allows WFOs to add specific and detailed information about tornadic (rotational wind) or thunderstorm wind (straight-line) events (e.g., derechos, downbursts, macrobursts, microbursts, heatbursts) and other non-thunderstorm wind events (e.g., gradient) that have been observed in storm damage surveys. Specific details on event locations, border crossers (events that cross regional, state, county, or County Warning Area (CWA) borders), damages, fatalities/injuries, storm track shifts, ratings, or other pertinent details regarding the event may be described. Inclusion of fatality causative factors (mobile home, vehicle) is encouraged if known.

.EF Scale...

Inclusion of the EF-Scale (Enhanced Fujita) section is optional. The EF-Scale number, corresponding tornado class (weak, strong, violent) and wind speed ranges may be provided.

.NOTE:

A sentence denoting the preliminary nature of the damage survey PNS will be included.

2.3.6.1.1 Tornado Damage Survey PNS Format

1 2 3 4 5 6
12345678901234567890123456789012345678901234567890123456789

NOUS4X_cccc_ddhhmm
PNSccc
STZ001-002-003-ddhhmm-

Public Information Statement
National Weather Service City State
Time AM/PM time zone day mon dd yyyy

- ...Headline... (Mandatory)
- .Update... (Mandatory)
- .Overview... (Optional)
- .Tornado (#) ... or .(reference)_Tornado... (Mandatory)

Rating:	(EF-x; where x = 0-5)	(Mandatory)
Estimated_Peak_Wind:	(xxx mph)	(Mandatory)
Path_Length_/Statute/:	(xx.xx miles)	(Mandatory)
Path_Width_/Maximum/:	(xxx yards)	(Mandatory)
Fatalities:	(x)	(Mandatory)
Injuries:	(x)	(Mandatory)
Start Date:	(mon/dd/yyyy)	(Mandatory)
Start Time:	(time_AM/PM_time zone)	(Mandatory)
Start Location:	(azran to city/town_/county/parish/_st)	(Mandatory)
Start_Lat/Lon:	(xx.xxxx_/_-xx.xxxx)	(Mandatory)
End Date:	(mon/dd/yyyy)	(Mandatory)
End Time:	(time_AM/PM_time zone)	(Mandatory)
End Location:	(azran to city/town_/county/parish/_st)	(Mandatory)
End_Lat/Lon:	(xx.xxxx_/_-xx.xxxx)	(Mandatory)
Survey Summary:		(Optional)
.Tornado (#)... or .(reference)_Tornado...		(if applicable)
&&		
EF_Scale:		(Mandatory)
NOTE:		(Mandatory)
The information in this statement is preliminary and subject to change pending final review of the event/s/ and publication in NWS Storm Data.		
\$\$		
Forecaster Name/Number		(Optional)

2.3.6.1.2 Thunderstorm Wind Damage Survey (Significant Event) PNS Format

1 2 3 4 5 6
 12345678901234567890123456789012345678901234567890123456789

NOUS4X_cccc_ddhhmm
 PNSccc
 STZ001-002-003-ddhhmm-

Public Information Statement
 National Weather Service City State
 Time AM/PM time zone day mon dd yyyy

...Headline...		(Mandatory)
.Update...		(Mandatory)
.Overview...		(Optional)
.Thunderstorm Wind (#)... or .(reference)_Thunderstorm Wind...		(Mandatory)
Peak Wind /E/ or /M/:	(xxx mph)	(Mandatory)
Path_Length_/Statute/:	(xx.xx miles)	(Mandatory)
Path_Width_/MAXIMUM/:	(xxx yards)	(Mandatory)
Fatalities:	(x)	(Mandatory)
Injuries:	(x)	(Mandatory)
Start Date:	(mon/dd/yyyy)	(Mandatory)

Start Time:	(time_AM/PM_time zone)	(Mandatory)
Start Location:	(azran to city/town/_county/parish/_st)	(Mandatory)
Start_Lat/Lon:	(xx.xxxx/_-xx.xxxx)	(Mandatory)
End Date:	(mon/dd/yyyy)	(Mandatory)
End Time:	(time_AM/PM_time zone)	(Mandatory)
End Location:	(azran to city/town/_county/parish/_st)	(Mandatory)
End_Lat/Lon:	(xx.xxxx/_-xx.xxxx)	(Mandatory)
Survey Summary:		(Optional)
.Thunderstorm Wind (#)... or .(reference)_Thunderstorm Wind...		(if applicable)
&&		
NOTE:		(Mandatory)
The information in this statement is preliminary and subject to change pending final review of the event/s/ and publication in NWS Storm Data.		
\$\$		
Forecaster Name/Number		(Optional)

Note: Multiple individual survey results from the same weather event may be included in the same PNS issuance with each subsequent individual report beginning after the “.Survey Summary...” section from the previous entry.

2.4 Updates, Amendments, and Corrections

For damage survey PNSs, follow the instructions about updates in Section 2.3.3 and the Note in Section 2.3.4.

3 Generic Public Information Statement (Product Category PNS)

3.1 Mission Connection

The generic Public Information Statement (PNS) is an alphanumeric message used to distribute information regarding hydrometeorological events, public education, NWS service changes, limitations or interruptions and special guidelines for interpreting NWS data. The PNS is used by a wide variety of users and partners such as the general public, emergency managers, the media and other governmental entities.

3.2 Issuance Guidelines

3.2.1 Creation Software

WFOs may use the AWIPS GHG program, the AWIPS text editor or any other text editor to produce this product. The Post-Storm Damage Survey PNS should be issued via the AWIPS GHG program.

3.2.2 Issuance Criteria

The issuing office determines the need for issuance of a PNS.

3.2.3 Issuance Time

The PNS is a non-scheduled product issued when appropriate.

3.2.4 Valid Time

The PNS is valid through the effective date or time period.

3.2.5 Product Expiration Time

The product expiration time of a PNS is usually up to 12–24 hours but may be up to 31 days depending upon product content.

3.2.6 Event Expiration Time

The PNS does not have an event expiration time.

3.3 Technical Description.

3.3.1 UGC Type

The PNS will use UGC Zone (Z) coding.

3.3.2 MND Broadcast Instruction Line

There is no MND Broadcast Instruction Line for this product.

3.3.3 MND Product Type Line

The PNS does not have a mandatory MND product type line. This product will utilize “Public Information Statement” or any other appropriate header may be used.

3.3.4 Content

The PNS may contain various weather or NWS related information of public interest as described in Section 3.1.

3.3.5 Format

The generic PNS is a free-form narrative or tabular text product format as shown in Section 3.3.5.1. However, if the generic PNS is used to report preliminary hydrometeorological information during or final hydrometeorological information following a weather event, WFOs should use the format specified in Section 3.3.5.2, 3.3.5.3, or 3.3.5.4. The nature of the report (i.e., unofficial, preliminary or final) should be stated in the explanatory text.

3.3.5.1 Generic PNS Product Format

<u>Product Format</u>	<u>Description of Entry</u>
NOaaii cccc ddhhmm	(WMO Heading)
PNSxxx	(AWIPS ID)
stZ001-005>015-ddhhmm-	(UGC: Z & Product expiration time)
Public Information Statement	(MND)
-or-	
Appropriate Header Information	
National Weather Service City ST	(Issuing office)
time AM/PM time zone day mon dd yyyy	(Issuance time and date)
[TEXT]	
\$\$	
Name/Initials/Fcstr ID	(Optional)

Note: The “xxx” in this product is a modernized three-letter WFO identifier, a three-character

Note 4: Hydromet Type begins in column 31. Water Equivalent begins in column 43, and Comments begin in column 51.

Note 5: WFOs may continue to use the free-form text product until such time as nationally supported software for the more structured product shown above is available.

3.3.5.3 Hydrometeorological Format (without water equivalent)

1 2 3 4 5 6
123456789012345678901234567890123456789012345678901234567890123456789

<u>Product Format</u>	<u>Description of Entry</u>
NOaaii cccc ddhhmm	(WMO Heading)
PNSxxx	(AWIPS ID)
stZ001-005>015-ddhhmm- time)	(UGC: Z & Product expiration
PUBLIC INFOMRATION STATEMENT	(MND)
-or-	
APPROPRIATE HEADER INFORMATION	
National Weather Service City ST	(Issuing office)
time AM/PM time zone day mon dd yyyy	(Issuance time and date)
EXPLANATORY TEXT /HYDROMET TYPE A	
LOCATION ELEVATION	HYDROMET COMMENTS
	Data 1
STATE 1	
...Geopolitical Descriptor 1...	
CITY ELEVATION	XXX.X OPTIONAL TEXT
...Geopolitical Descriptor 2...	
CITY1 ELEVATION	XXX.X OPTIONAL TEXT
CITY2	XXX.X OPTIONAL TEXT
STATE 2	
...Geopolitical Descriptor 1...	
CITY	XXX.X OPTIONAL TEXT
EXPLANATORY TEXT BETWEEN HYDROMETEOROLOGICAL TYPES /HYDROMET TYPE B	
LOCATION ELEVATION	HYDROMET COMMENTS
	Data 2
STATE 1	
...Geopolitical Descriptor 1...	
CITY ELEVATION	XXX.X OPTIONAL TEXT
\$\$	
Name/Initials/Fcstr ID	(Optional)

Note 1: The “Geopolitical Descriptor” can be any commonly used geographical or political designation such as counties, boroughs, parishes, zones, mountains, valleys, metropolitan areas, etc. The WFO determines which descriptor to use for the PNS.

Note 2: Elevation, in feet, is optional and may be appended to the end of the geopolitical descriptor.

Note 3: Comments may include, but are not limited to, time of the report, latitude/longitude of the reporting site, etc.

Note 4: Hydromet Type begins in column 31. Comments begin in column 51.

Note 5: WFOs may continue to use the free-form text product until such time as nationally supported software for the more structured product shown above is available.

3.3.5.4 Hydrometeorological Format (with date/time of measurement and no water equivalent)

1 2 3 4 5 6
 123456789012345678901234567890123456789012345678901234567890123456789

<u>Product Format</u>	<u>Description of Entry</u>
NOaaii cccc ddhhmm	(WMO Heading)
PNSxxx	(AWIPS ID)
stZ001-005>015-ddhhmm-	(UGC: Z & Product expiration time)
PUBLIC INFORMATION STATEMENT	(MND)
	-or-
APPROPRIATE HEADER INFORMATION	
National Weather Service City ST	(Issuing office)
time AM/PM time zone day mon dd yyyy	(Issuance time and date)
EXPLANATORY TEXT /HYDROMET TYPE A/	
LOCATION	RM TOTAL TIME/DATE OF COMMENTS
	SNOWFALL MEASUREMENT
	(INCHES)
STATE 1	
...Geopolitical	Descriptor1...
CITY ELEVATION	XXX.X XXX XM MM/DD (Optional Text)
...Geopolitical	Descriptor2...
CITY1 ELEVATION	XXX.X XXX XM MM/DD (Optional Text)
CITY2	XXX.X XXX XM MM/DD (Optional Text)
STATE 2	
...Geopolitical	Descriptor1...
CITY	XXX.X XXX XM MM/DD (Optional Text)
\$\$	
Name/Initials/Fcstr ID	(Optional)

Note 1: The “Geopolitical Descriptor” can be any commonly used geographical or political designation such as counties, boroughs, parishes, zones, mountains, valleys, metropolitan areas, etc. The WFO determines which descriptor to use for the PNS.

Note 2: Elevation, in feet, is optional and may be appended to the end of the geopolitical descriptor.
 Note 3: Comments may include, but are not limited to, time of the report, latitude/longitude of the reporting site, etc.

Note 4: Hydromet Type begins in column 22. Comments begin in column 47.

Note 5: WFOs may continue to use the free-form text product until such time as nationally supported software for the more structured product shown above is available.

3.4 Updates, Amendments, and Corrections

Modifications are made to the generic PNS as needed. The appropriate terms “Updated” or “Corrected” preceded by three dots (...) will be appended to the product identification line in the MND header. As an important aid to users, a brief (usually one-line) reason for the update or correction should be added.

4 Weather Summary (Product Category RWS)

4.1 Mission Connection

The Weather Summary (RWS) provides a brief narrative for a sub-state region, an entire state or a multi-state region. This narrative includes recent past weather (up to 24 hours in the past), present weather and forecast conditions (up to 24 hours in the future but may extend up to 72 hours). The emphasis should be on past and current weather. WFOs (or Weather Service Offices (WSOs)), in coordination with their local users and Regional Headquarters, will determine the regional extent of this product and which WFOs (or WSOs) will issue sub-state, state or multi-state product(s).

4.2 Issuance Guidelines

4.2.1 Creation Software

The RWS may be composed using the AWIPS text editor or any other text editor.

4.2.2 Issuance Criteria

The RWS is a routine product.

4.2.3 Issuance Time

The RWS should be issued based on user requirements, generally mid-morning and/or early to mid-evening.

4.2.4 Valid Time

The RWS is generally valid up to 24 hours from the product issuance time.

4.2.5 Product Expiration Time

The RWS product expiration time may be up to 12 hours after issuance time.

4.2.6 Event Expiration Time

The RWS does not have an event expiration time.

4.3 Technical Description

4.3.1 UGC Type

The RWS will use UGC Zone (Z) coding. The RWS may have several summaries grouped geographically. If grouped summaries are used, each summary should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined

by the WFO with the concurrence of the Regional Headquarters.

4.3.2 MND Broadcast Instruction Line

The RWS does not contain a MND Broadcast Instruction Line.

4.3.3 MND Product Type Line

The RWS MND Weather Summary For “Sub- State Region,” “State,” or “Multi-State Region,” where “Sub-State Region,” “State” or “Multi-State Region” are replaced appropriately.

4.3.4 Content

The RWS may contain the entire range of meteorological variables (e.g., sky condition, weather, wind, temperature, snow depth, tides, water temperature, etc.). Record and/or near-record temperatures, precipitation, heat, etc., should be mentioned. The synoptic features causing the weather may be mentioned but only in the very simplest, nontechnical terms.

4.3.5 Format

The RWS is a free-form text product.

<u>Product Format</u>	<u>Description of Entry</u>
AWaaai cccc ddhhmm	(WMO Heading)
RWSxxx	(AWIPS ID)
stZ001-005>015-ddhhmm-	(UGC: Z & Product expiration time)
Weather Summary for “Sub-State Region,” “State” or “Multi-State Region” ,”	(MND)
National Weather Service City ST	(Issuing office)
Time AM/PM Time Zone Day Mon dd yyyy	(Issuing time and date)
[TEXT]	
\$\$	(UGC Delimiter)
Name/Initials/Fcstr ID	(Optional)

Note: The “xxx” in this product is either a modernized three-letter WFO identifier or a two-letter state abbreviation followed by a “space.”

4.4 Updates, Amendments, and Corrections

As needed, based upon user needs.

5 Weather Roundup (Product Category RWR)

5.1 Mission Connection

The Weather Roundup (RWR) provides routine, standardized hourly observations for a sub-state region, an entire state or a multi-state region. Standardized observations are those that meet the criteria defined in NWSI 10-1302, “Instrument Requirements and Standards for the NWS Surface Observing Programs (Land)”. WFOs, in coordination with their local users and Regional Headquarters, will determine the regional extent of this product and which WFOs will issue sub-state, multi-state or state products.

5.2 Issuance Guidelines

5.2.1 Creation Software

The RWR can be automatically composed and transmitted by use of a standard applications program that decodes the surface aviation observations (RiverPro) or created by the AWIPS (or any other) text editor.

5.2.2 Issuance Criteria

The RWR is a routine product.

5.2.3 Issuance Time

The RWR should be issued at least hourly. Some observations are available a few minutes before the hour while others are not available until shortly after the hour. Thus, WFOs may run the application just before the hour for fast dissemination of early observations and again shortly after the hour when the rest of the observations are available.

5.2.4 Valid Time

The RWR is generally valid for one hour from the product issuance time.

5.2.5 Product Expiration Time

The RWR product expiration time is generally one hour after issuance time.

5.2.6 Event Expiration Time

The RWR does not have an event expiration time.

5.3 Technical Description

5.3.1 UGC Type

Public Forecast Zones. Each RWR may have several groups of observations. Each group of observations should include a UGC header assigned for the public forecast zones within that grouping. The partitioning should be determined by the WFO, with the concurrence of the Regional Headquarters.

5.3.2 MND Broadcast Instruction Line

The RWR does not contain a MND Broadcast Instruction Line.

5.3.3 MND Product Type Line

The RWR MND is "WEATHER ROUNDUP FOR 'SUB-STATE REGION,' 'STATE,' or 'MULTI-STATE REGION'" where "SUB-STATE REGION," "STATE," or "MULTI-STATE REGION" are replaced appropriately.

5.3.4 Content

The RWR may contain the entire range of meteorological variables (e.g., sky condition, weather, temperature, dew point, relative humidity, wind, atmospheric pressure, etc.). In remarks, Wind Chill Index will be abbreviated "WCI" and Heat Index will be abbreviated "HX." Below zero values for temperature, dew point, and WCI will be preceded by a minus (-) sign. If the satellite cloud cover product is unavailable, reports from unaugmented Automated Surface Observing

System (ASOS) stations will show “FAIR” for the sky/weather condition when there are few or no clouds (i.e., scattered or less) below 12,000 feet with no significant weather and/or obstructions to visibility. A note explaining the meaning of “FAIR” should appear after the MND header of all RWRs.

5.3.5 Format

The RWR is a tabular product.

<u>Product Format</u>	<u>Description of Entry</u>
ASaa4i cccc ddhhmm	(WMO Heading)
RWRxxx	(AWIPS ID)
stZ001-005>015-ddhhmm-	(UGC: <u>Z</u> & Product expiration time)
Weather Summary for “Sub-State Region,” “State” or “Multi-State Region” ,”	(MND)
National Weather Service City ST time AM/PM time zone day mon dd yyyy	(Issuing Office) (Issuing time and date)
[TEXT]	
\$\$	(UGC Delimiter)
NOTE...“FAIR” INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.	
Name/Initials/Fcstr ID	(Optional)

Note: The “xxx” in this product is either a modernized three-letter WFO identifier or a two-letter state abbreviation followed by a “space.”

5.4 Updates, Amendments, and Corrections

As needed, based upon user needs.

6 Maximum/Minimum Temperature and Precipitation Table (Product Category RTP)

6.1 Mission Connection

The Maximum/Minimum Temperature and Precipitation Table (RTP) provides the maximum/minimum temperatures and precipitation totals for a sub-state region, an entire state or a multi-state region. The RTP table is used by national centers and local media.

The 0030 UTC and 1230 UTC issuances will contain specific time frames for temperature extremes (see 6.3.5.1.4 Format Summary Table); however, precipitation will be for a 24-hour period ending at the top of the synoptic hour. RTP tables for other times will generally contain extremes for a 24-hour period for both temperatures and precipitation ending at a specific time or for a calendar day (defined as midnight to midnight local time).

Only those stations that meet the criteria defined in NWSI 10-1302, “Instrument Requirements and Standards for the NWS Surface Observing Programs (Land)” will be included in the RTP product. In general, surface aviation (METAR) observations and cooperative (COOP) observing stations qualify for use in the RTP. WFOs, in coordination with their local users and Regional

Headquarters, will determine the regional extent of this product and which WFOs will issue sub-state, multi-state or state product(s).

6.2 Issuance Guideline

6.2.1 Creation Software

The river product formatter (Riverpro) in the WFO Hydrologic Forecast System (WHFS) should be used to compose the RTP. Other software may be used as long as the proper product format is followed.

6.2.2 Issuance Criteria

The RTP is a routine product.

6.2.3 Issuance Time

The RTP should be issued at least twice daily: in the morning around 1230 hours UTC and in the afternoon/evening around 0030 hours UTC. WFOs may issue additional products to capture “calendar day” values as reports become available.

6.2.4 Valid Time

The RTP is generally valid up to 12 hours from the product issuance time.

6.2.5 Product Expiration Time

The RTP does not have a product expiration time.

6.2.6 Event Expiration Time

The RTP does not have an event expiration time.

6.3 Technical Description

6.3.1 UGC Type

The RTP does not use UGC coding.

6.3.2 MND Broadcast Instruction Line

The RTP does not contain a MND Broadcast Instruction Line.

6.3.3 MND Product Type Line

The RTP MND is Max/Min Temperature and Precipitation Table for “Sub-State Region,” “State” or “Multi-State Region” where “Sub-State Region,” “State” or “Multi-State Region are replaced appropriately.

6.3.4 Content

Maximum and minimum temperatures (in degrees Fahrenheit) and 24-hour precipitation totals (in inches) will be included. Weather elements such as current weather, snowfall and snow depth may be included, but any additional information should be kept to a minimum. WFOs may list the highest and lowest temperatures for their region or area at the bottom of the report. WFOs should clearly identify the valid time period for the reported data at the top of the text.

6.3.5 Format

The RTP is a tabular product and will use Standard Hydrometeorological Exchange Format (SHEF) coding for ease in automated software processing. The SHEF “.BR” report code will be used (see NWS Manual 10-944, “Standard Hydrometeorological Exchange Format Manual”).

<u>Product Format</u>	<u>Description of Entry</u>
ASaa6i cccc ddhhmm RTPxxx	(WMO Heading) (AWIPS ID)
Max/Min Temperature and Precipitation Table for “Sub-State Region,” “State” or “Multi-State Region”	(MND)
National Weather Service City ST	(Issuing Office)
Time AM/PM time zone Day Mon dd yyyy	(Issuing time and date)
.BR locid mddd tz DHhh/TAIRZX/DHhh/TAIRZN/PPDRZZ/SFDRZZ/SDIRZZ	(SHEF turn-on code)
[TEXT]	
.End	(SHEF turn-off code)

These data are preliminary and have not undergone final quality control by the National Centers for Environmental Information (NCEI - formerly the National Climatic Data Center or NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at www.ncdc.noaa.gov.

\$\$

Name/Initials/Fcstr ID (Optional)

Note 1: The “xxx” in this product is either a modernized three-letter WFO identifier or a two-letter state abbreviation followed by a “space.” The “locid” is the three through eight alphanumeric character SHEF location identifier.

Note 2: Reports will be grouped according to time zone of the observing station. Therefore, if a WFO includes observations from observing stations in two (or more) separate time zones, the RTP report will be formatted in two (or more) sections such that each section contains observations from only one (1) time zone.

Note 3: Specific time periods and elements included will be listed at the top of the product.

Note 4: Reporting stations may be grouped together by geographical area. These areas will be determined by the issuing WFO.

Note 5: “BR” turns on SHEF coding. Any lines following the “.BR” line which are not SHEF encoded (for example, column headers) will contain a colon (“:”) as the first character.

Note 6: Each station in the RTP will include the following elements:

- a. SHEF location identifier (locid) – three through eight alphanumeric characters followed by a colon.
- b. Station name.
- c. Station elevation (optional). If included, the station elevation will be reported in the same section as the station name and elevation will be followed by a colon. Otherwise, the station name will be followed by a colon. (The station name and

elevation are not SHEF encoded. In SHEF, values between colons are processed as a remark by the SHEF decoder.)

- d. Observation time (COOP stations only), based on the value used in the original observation, followed by a solidus (“/”).
- e. Observed weather elements, each separated by a solidus. “M” will be used to indicate missing data that is normally reported by the station. If the station does not normally report this element (e.g., high/low temperature at a precipitation-only station), this field will be left blank.

Note 7: “.END,” listed on a single line at the end of the observation table, turns off the SHEF coding.

Note 8: WFOs will include the following phrase at the end of the product:
 “These data are preliminary and have not undergone final quality control by the National Centers for Environmental Information (NCEI - formerly the National Climatic Data Center or NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at www.ncdc.noaa.gov.”

6.3.5.1 SHEF Element Codes

The SHEF element codes will vary depending on the issuance time, source of observation, and specific reporting period.

6.3.5.1.1 For METAR observations included in the morning issuance around 1230 UTC:

.BR locid mmdd tz DH00/TAIRZX/DHhh/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ for Standard Time

or

.BR locid mmdd tz DH01/TAIRZX/DHhh/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ for Daylight Time

DH00/DH01 represents midnight Local Standard Time for TAIRZX, and DHhh represents 12 UTC reported in Local Time for the remaining elements.

Create a separate SHEF .BR section using the format in 6.3.5.1.4 if COOP data are reported in the 1230 UTC RTP table.

6.3.5.1.2 For METAR observations included in the evening issuance around 0030 UTC:

.BR locid mmdd tz DHhh/TAIRZS/TAIRZI/PPDRZZ/SFDRZZ/SDIRZZ where DHhh corresponds to 00 UTC reported in Local Standard Time.

Create a separate SHEF .BR section using the format in 6.3.5.1.4 if COOP data are reported in the 0030 UTC RTP table.

6.3.5.1.3 For locally required issuances (e.g., COOP data):

.BR locid mmdd tz DHhh/TAIRZX/TAIRZN/PPDRZZ/SFDRZZ/SDIRZZ where DHhh represents 7 AM Local Time for 24-hour morning reports and 7 PM Local Time for 24-hour evening reports.

Create a separate SHEF .BR section using the formats in 6.3.5.1.1 or 6.3.5.1.2. if METAR data are reported in RTP tables outside of 1230 UTC and 0030 UTC.

6.3.5.1.4 Format Summary Table

Report Time and Source	SHEF Parameter Code	Elements Included
Morning issuance (1230 UTC) - METAR data	tz DH00 / DH01 TAIRZX DHhh TAIRZP PPDRZZ SFDRZZ (optional) SDIRZZ (optional)	E for Eastern Time, C for Central Time, etc. For yesterday's high temperature reported at midnight Local Standard Time (e.g. Use DH00 for Standard Time and DH01 for Daylight Time) High temperature past calendar day For reporting low temperature and precipitation elements, hh corresponds to 12 UTC in Local Time (e.g. 07 for Eastern Time Zone, 06 for Central Time Zone, etc.) Low temperature past 12 hours Precipitation last 24 hours Snowfall last 24 hours (optional) Snow depth (optional)
Evening issuance (0030 UTC) - METAR data	tz DHhh TAIRZS TAIRZI PPDRZZ SFDRZZ (optional) SDIRZZ (optional)	E for Eastern Time, C for Central Time, etc. DDhh corresponds to 00 UTC High temperature past 18 hours Low temperature past 18 hours Precipitation last 24 hours Snowfall last 24 hours (optional) Snow depth (optional)

Locally required issuances - COOP data	tz	E for Eastern Time, C for Central Time, etc.
	DHhh	hh corresponds to 7 AM or 7 PM Local Time
	TAIRZX	High temperature past 24 hours
	TAIRZN	Low temperature past 24 hours
	PPDRZZ	Precipitation past 24 hours
	SFDRZZ (optional)	Snowfall last 24 hours (optional)
	SDIRZZ (optional)	Snow depth (optional)

6.4 Updates, Amendments, and Corrections

As needed, based upon user needs. WFOs will identify amendments or corrections per standard SHEF code. This manual is posted on-line on a website managed by the Field Support and Infrastructure Team within the Office of Central Processing.

APPENDIX A - WFO Statements, Summaries, Tables Product Examples

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1. **Introduction.** This section contains examples of WFO statements, summaries and tables.

2. **Public Information Statement.**

A. **General Awareness Information: Equipment Outage (Generic Format)**

NOUS41 KCTP 241059
PNSCTP
PAZ025-241500-

Public Information Statement
National Weather Service State College PA
659 AM EDT Wed Jul 24 2019

...Maintenance on NOAA Weather Radio this morning...

The NOAA Weather Radio serving Altoona and surrounding towns W N G 5 8 9 will be off the air periodically this morning for routine maintenance. The scheduled weekly test should still be transmitted between 11 AM and Noon. The radio should be back to normal broadcast transmissions by early afternoon.

\$\$

B. **General Awareness Information: Weather Safety/Awareness Week (Generic Format)**

NOUS43 KIND 171000
PNSIND
INZ001>092-171400-

Public Information Statement
National Weather Service Indianapolis IN
600 AM EDT Sun Mar 17 2019

This week is severe weather preparedness week in Indiana. Everyone has a critical role in safety during severe weather. We will discuss roles of key players and planning for severe weather.

Though severe weather can happen any time of the day or year, it occurs most often from April to July.

National Weather Service offices train volunteers called Skywarn Spotters who report what thunderstorms are producing. These reports are correlated with radar data and aid meteorologists in the warning process. Local National Weather Service web sites identify Skywarn spotter training dates and locations.

Television and radio stations are key players in weather safety by broadcasting National Weather Service watches and warnings. They also provide weather hazard safety information in program specials and outreach functions. The media also carry recovery efforts after disasters. Stations also relay the statewide tornado drill warning.

Newspapers are involved too by promoting severe weather preparedness week and carrying stories of damaging or significant weather events.

State and county homeland security agencies also prepare for severe weather. These officials plan for and respond to disasters and coordinate recovery efforts. County homeland security also helps arrange National Weather Service Skywarn spotter training and supports medical facilities, schools and businesses with weather safety procedures.

State, county and local highway, law enforcement, fire department and emergency response agencies as well as the American Red Cross and other volunteer organizations also plan for and respond to weather emergencies. The Indiana State Police disseminates National Weather Service watches and warnings to the counties. Many law enforcement and fire department personnel receive Skywarn spotter training, participate in storm spotting, and aid citizens when disasters occur. These people are the first on scene after a disaster.

Schools, the private sector and members of the general public also play an important role in severe weather preparedness. That role is to know how weather may threaten, to have a plan of action, to exercise the plan, and then to follow the plan when severe weather strikes. Everyone must remain aware of the potential for severe weather, actively monitor weather information sources and take action when warnings are issued or storms threaten.

On Monday, we will cover hazardous weather outlooks and watches and what everyone should do long before any hazardous weather occurs.

\$\$

C. Damage Survey (single tornado event)

NOUS42 KTBW 191910
PNSTBW
FLZ052-151-251-201915-

Public Information Statement
National Weather Service Tampa Bay Ruskin FL
310 PM EDT Sat Oct 19 2019

...NWS Damage Survey for 10/18/19 Tornado Event...

.Overview...Tropical Storm Nestor produced a series of tornadoes late Friday night, over localized areas of west central Florida..

.Tornado...

Rating:	EF-2
Estimated Peak Wind:	120 mph
Path Length /statute/:	9 miles
Path Width /maximum/:	0.3 miles
Fatalities:	0
Injuries:	0
Start Date:	10/18/2019
Start Time:	1059 PM EDT
Start Location:	Carillon Lakes / Polk County / FL
Start Lat/Lon:	28.0049 / -82.0328
End Date:	10/18/2019
End Time:	1129 PM EDT
End Location:	Lakeland / Polk County / FL
End Lat/Lon:	28.1244 / -82.0195

Survey Summary: Preliminary estimates have damage to around 50 homes. Several homes in the Mt. Tabor neighborhood were damaged and 2 of these sustained EF2 damage. The tornado showed signs of weakening and appeared to be lifting as it moved north from the Mt. Tabor area and damaged the roof at Kathleen Middle

School. Also, the tornado lifted a camper onto a residence near the middle school.

&&

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...Weak.....65 to 85 mph
EF1...Weak.....86 to 110 mph
EF2...Strong....111 to 135 mph
EF3...Strong....136 to 165 mph
EF4...Violent...166 to 200 mph
EF5...Violent...>200 mph

NOTE:

The information in this statement is preliminary and subject to change pending final review of the event and publication in NWS Storm Data.

\$\$

D. Damage Survey (single tornado event – update)

NOUS44 KBMX 081932
PNSBMX
ALZ011>015-017>050-090745-

Public Information Statement
National Weather Service Birmingham AL
232 PM CDT Mon Apr 8 2019

...NWS Damage Survey for 04/08/19 Tornado Event - Update 1...

.Update...added information for Blount County tornado.

.Overview...An isolated storm developed overnight and moved through North Central Alabama. This storm split several times and produced at least one tornado and maybe more. We will update this statement as more information comes back from the survey team.

.Tornado #1 Graves Cemetery Road Tornado, Blount County...

Rating: EF1
Estimated Peak Wind: 90 mph
Path Length /statute/: 6.3 miles
Path Width /maximum/: 1175 yards
Fatalities: 0
Injuries: 0

Start Date: 04/08/2019
Start Time: 05:44 AM CDT
Start Location: 3 ESE Blountsville / Blount County / AL
Start Lat/Lon: N/A / N/A

End Date: 04/08/2019
End Time: 05:53 AM CDT
End Location: 2 SSW Brooksville / Blount County / AL
End Lat/Lon: N/A / N/A

Survey Summary:
Not available at this time.

&&

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...Weak.....65 to 85 mph
EF1...Weak.....86 to 110 mph
EF2...Strong....111 to 135 mph
EF3...Strong....136 to 165 mph
EF4...Violent...166 to 200 mph
EF5...Violent...>200 mph

NOTE:

The information in this statement is preliminary and subject to change pending final review of the event and publication in NWS Storm Data.

\$\$

E. Damage Survey (combination of tornadoes and thunderstorm wind events)

NOUS43 KMPX 230205
PNSMPX
MNZ041>045-047>070-073>078-082>085-091>093-WIZ014>016-023>028-242100-

Public Information Statement
National Weather Service Twin Cities/Chanhassen MN
857 PM CDT Mon Jul 22 2019

...NWS Damage Survey for 07/19/2019 Tornado Event...

.Overview...Two tornadoes embedded within a large swath of straight line winds occurred Friday, July 19th across Polk and Barron counties. While many trees were damaged across both counties, it was clear given the tree fall pattern which resulted from straight line winds and which were the result of tornadoes.

.Upper Turtle Lake Tornado...

Rating: EF-0
Estimated Peak Wind: 75 mph
Path Length /statute/: 0.8 miles
Path Width /maximum/: 50 yards
Fatalities: 0
Injuries: 0

Start Date: 7/19/2019
Start Time: 5:44 PM CDT
Start Location: 3ENE of Village of Turtle Lake/Barron County/WI
Start Lat/Lon: 45.4128 / -92.0854

End Date: 7/19/2019
End Time: 5:50 PM CDT
End Location: 3ENE of Village of Turtle Lake/Barron County/WI
End Lat/Lon: 45.4066 / -92.0743

A brief EF0 tornado caused uprooted and downed trees alongside damage to roof panels of outbuildings on a farmstead 2.9 miles northeast of the Village of

Turtle Lake, Wisconsin on Friday evening. Maximum winds were estimated to be 75 miles per hour.

.Horseshoe Lake Tornado...

Rating: EF-1
Estimated Peak Wind: 90 mph
Path Length /statute/: 3.0 miles
Path Width /maximum/: 1/3 mile
Fatalities: 0
Injuries: 0

Start Date: 7/19/2019
Start Time: 5:36 PM CDT
Start Location: 3NW of Village of Turtle Lake / Polk County / WI
Start Lat/Lon: 45.4321 / -92.1811

End Date: 7/19/2019
End Time: 5:49 PM CDT
End Location: 3NE of Village of Turtle Lake / Barron County / WI
End Lat/Lon: 45.4373 / -92.1210

An EF1 tornado uprooted and downed trees in a concentrated path beginning 3.3 miles northwest of the Village of Turtle Lake Wisconsin on Friday evening, ending 3 miles northeast of the Village of Turtle Lake. Maximum winds were estimated to be 90 mph with a path length of 3 miles, and a max width of 1/3 mile.

&&

EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories.

EF0...Weak.....65 TO 85 mph
EF1...Weak.....86 TO 110 mph
EF2...Strong....111 TO 135 mph
EF3...Strong....136 TO 165 mph
EF4...Violent...166 TO 200mph
EF5...Violent. >200mph

.Polk and Barron County Thunderstorm Wind Damage...

In addition to the two tornadoes, widespread straight line winds raked across northern and eastern Polk County and most of Barron County. Most of the damage was to trees, although some light structural damage was also noted. Trees fell toward the east southeast, which is consistent with the strong west northwest wind. Maximum wind was estimated at 90 mph given the tree damage and a measured gust of 84 mph in Cushing, WI (Polk County). The same weather station measured a sustained 73 mph wind for 5 minutes.

&&

NOTE:

The information in this statement is preliminary and subject to change pending final review of the event and publication in NWS Storm Data.

\$\$

F. Damage Survey (multiple tornadoes – update on one specific entry)

436
NOUS44 KFWD 232357 CCA
PNSFWD
TXZ091>095-100>107-115>123-129>135-141>148-156>162-174-175-240900-

Public Information Statement
National Weather Service Fort Worth TX
359 PM CDT Wed Oct 23 2019

...NWS Damage Survey for 10/20/2019 Tornado and Thunderstorm Wind Event - Update 3...

.Update...Corrected west to east at end of first tornado summary. Updated survey information for the Ellis County, TX tornadoes including summary and path length and width. All events were placed in chronological order.

.Overview...Severe thunderstorms erupted on the evening of October 20, 2019 across North Texas ahead of a powerful storm system. A couple of supercells produced tornadoes across parts of the North Texas, including the Dallas/Fort Worth Metroplex. The highest rated tornado, an EF-3, struck portions of Dallas County, but a high-end EF-2 tornado occurred in Garland. A total of 9 tornadoes have been surveyed. Additional surveys may be needed this week.

.Las Colinas to Richardson Tornado...

Rating: EF-3
Estimated Peak Wind: 140 mph
Path Length /statute/: 15.75 miles
Path Width /maximum/: 1300 yards
Fatalities: 0
Injuries: N/A

Start Date: 10/20/2019
Start Time: 8:58 PM CDT
Start Location: 1.8 E of Las Colinas / Dallas County / TX
Start Lat/Lon: 32.87 / -96.91

End Date: 10/20/2019
End Time: 9:30 PM CDT
End Location: 3 E of Richardson / Dallas County / TX
End Lat/Lon: 32.96 / -96.68

Survey Summary: The tornado formed in northwest Dallas, near State Highway 348 and Luna Road, where large tree damage and minor roof damage was initially observed. This tornado tracked toward the east-northeast, crossing I-35E and impacted numerous commercial structures between this freeway and Harry Hines Blvd. Extensive damage to many businesses and residences, consistent with EF-1 and EF-2 intensity wind speeds, occurred near the intersection of Harry Hines Blvd and Walnut Hill Lane. As the tornado moved eastward, roughly coincident with Walnut Hill Lane, several gas stations, large commercial buildings, and churches, and at least one multi-story apartment complex sustained significant roof and exterior wall damage. This path of strong EF-1 and EF-2 damage continued east-northeast along Walnut Hill Lane through the Marsh Lane and Midway Road corridors. East of Marsh Lane, the tornado impacted more single-family residences, though commercial structures were still adversely affected at times. Severe damage to large hardwood trees, consistent with EF-1 intensity winds, was observed throughout the damage path from Marsh Lane to US HWY 75.

Intermittent EF-1 and EF-2 damage also occurred to a number of residences in this area. Many of these damaged homes were large and/or well-established structures that sustained either partial or total roof loss, accompanied by minor exterior wall damage. This damage was consistent with 110-125 mph tornado winds. Within one concentrated region of EF-2 damage along Northaven Road west of US HWY 75, a particular single-family home was surveyed with total roof loss, and multiple collapsed exterior walls. The survey team determined that this damage was consistent with low-end EF-3 intensity winds of approximately 140 mph. This was the only structure that was assigned an EF-3 rating for this tornado.

The tornado continued eastward, toward US HWY 75 and produced significant roof damage to several businesses near US HWY 75 including office low-rise buildings, a car dealership, and a Home Depot. Damage here was assigned an EF-2 intensity. The tornado crossed over the southern part of the Texas Instruments campus and then began to turn more northeastward and parallel Greenville Avenue. Tree and roof damage consistent with EF-1 occurred as it crossed I-635. Several glass windows were blown out at a mid-rise office building. The tornado crossed an apartment complex near Walnut Street and Greenville Avenue where dozens of units had sections of missing roof consistent with EF-1 damage of 95 to 110 mph. The tornado moved across the Cutters Point apartment complex where numerous units experienced significant roof loss consistent with 115 mph or EF-2 damage. Another low-rise office building saw numerous windows blown out on all sides. The tornado continued into the Richland Park, Lakes of Buckingham, Richland Meadows, and College Park residential subdivisions where widespread tree and roof damage consistent with 80 to 95 mph winds occurred. A few homes in this area saw complete or total roof loss where winds were estimated at 110 mph or EF-1. The tornado began to weaken and took a sharp turn to the north near Richardson Square where it tracked to the Huffhines Park areas. Mostly tree damage occurred here with winds estimated near 70 mph or EF-0. The track then turned to the east and became very narrow near Duck Creek with the tornado dissipating as it crossed Jupiter Rd. The tornado had a continuous track for 32 minutes, tracked for just over 15 miles, produced maximum winds of 140 mph, with a maximum width of three-quarters of a mile.

.Midlothian Tornado...

Rating:	EF-1
Estimated Peak Wind:	100 mph
Path Length /statute/:	2.83 miles
Path Width /maximum/:	350 yards
Fatalities:	0
Injuries:	N/A
Start Date:	10/20/2019
Start Time:	9:10 PM CDT
Start Location:	N Midlothian / Ellis County / TX
Start Lat/Lon:	32.50 / -96.99
End Date:	10/20/2019
End Time:	9:15 PM CDT
End Location:	NNE Midlothian / Ellis County / TX
End Lat/Lon:	32.49 / -96.95

Survey Summary: The tornado began near Highway 67 and 9th Street on the north side of Midlothian and traveled east for approximately 2.8 miles. Several church and retail buildings experienced blown out windows and roof damage. One of the buildings connected to the Lighthouse Church was heavily damaged with the collapse of the southward facing wall and much of the roof removed. Just to the

east of Highway 67, sheet metal was peeled on two buildings and metal roof purlins were bent on one. This damage was consistent with winds of 100 to 110 mph, and EF-1 intensity. The tornado weakened some as it headed east and crossed into a residential area south of Mockingbird Lane. Damage indicates the tornado intensified in the area of Morning Dove Lane and Pheasant Drive. Several homes experienced significant roof damage, uplift of the roof deck of at least one home, some windows blown out, a garage door collapsed, and several trees were uprooted. This type of damage was consistent with wind speeds of 100 to 110 mph, or EF-1 intensity. The tornado weakened before ending near Walnut Grove Road, but the end point of this tornado is still being investigated.

.Garland Tornado...

Rating:	EF-2
Estimated Peak Wind:	135 mph
Path Length /statute/:	2.48 miles
Path Width /maximum/:	265 yards
Fatalities:	0
Injuries:	N/A
Start Date:	10/20/2019
Start Time:	9:24 PM CDT
Start Location:	3 WSW Garland / Dallas County / TX
Start Lat/Lon:	32.90 / -96.68
End Date:	10/20/2019
End Time:	9:30 PM CDT
End Location:	Near Garland / Dallas County / TX
End Lat/Lon:	32.91 / -96.64

Survey Summary: The tornado started on Kenmore Street just north of West Miller Road where part of a Sears Facility warehouse was heavily damaged. A wide section of the metal roof was peeled off and subsequently the adjacent metal walls were also torn away. Some of the interior support columns and beams were bent, causing another part of the roof to collapse. In addition, an empty 18 wheeler was tipped over and a van was also on its side. The tornado then struck a newly built warehouse to the east of this facility where nearly the entire building collapsed. The interior support columns were bent to the ground in this facility as the pre-case concrete tilt-up walls collapsed to the east. The damage to these two facilities indicated high end EF-2 damage with winds of 135 mph. Damage from the second warehouse was blown into the adjacent neighborhood to the east across Shiloh Road and damaged some homes. The tornado also snapped and uprooted many trees and damaged many roofs and homes along its path through the residential area from Shiloh Road to Garland Avenue. Roof damage consisted of a combination of loss of decking and shingles. Some roofs were also damaged by fallen trees and other debris. One house in particular on the corner of Westway Avenue and Patricia Lane sustained damage to the garage which partially collapsed. Damage in this neighborhood was consistent of EF-0 and EF-1 damage. The tornado then moved across Garland Ave towards Central Park damaging more roofs and trees near Degge Circle, and then damaging baseball fields and fences at the park. The tornado continued northeast from the park causing minor damage as it weakened, dissipating near Avenue D and Santa Fe Street.

.Rowlett/Sachse Tornado...

Rating:	EF-1
Estimated Peak Wind:	100 mph
Path Length /statute/:	6.0 miles

Path Width /maximum/: 500 yards
Fatalities: 0
Injuries: N/A

Start Date: 10/20/2019
Start Time: 9:36 PM CDT
Start Location: Near Rowlett / Dallas County / TX
Start Lat/Lon: 32.92 / -96.57

End Date: 10/20/2019
End Time: 9:45 PM CDT
End Location: Lake Ray Hubbard / Dallas County / TX
End Lat/Lon: 32.98 / -96.50

Survey Summary: The onset of damage with this path began along Larkin Lane in Rowlett with a few trees and roofs damaged. The track continued east northeast with the greatest intensity of damage observed in the 4600 block of Hilcox Road just before President George Bush Turnpike (PGBT) where one home lost most of the roof and saw severe window damage and the garage exterior walls collapsed. Several metal outbuildings and barns on this and adjacent properties were also severely damaged or destroyed. Multiple trees were snapped or uprooted along with power poles collapsed.

The tornado moved over the east side of the PGBT where several houses and barns sustained significant roof damage or shingles removed. The damage track continued north/northeast near the Pleasant Valley neighborhood. A video shows this tornado as it was over Lake Ray Hubbard where it likely lifted before reaching the far shore.

.Ferris Tornado...

Rating: EF-0
Estimated Peak Wind: 85 mph
Path Length /statute/: 0.18 miles
Path Width /maximum/: 170 yards
Fatalities: 0
Injuries: 0

Start Date: 10/20/2019
Start Time: 9:42 PM CDT
Start Location: W Ferris / Ellis County / TX
Start Lat/Lon: 32.53 / -96.67

End Date: 10/20/2019
End Time: 9:44 PM CDT
End Location: W Ferris / Ellis County / TX
End Lat/Lon: 32.53 / -96.66

Survey Summary: A tornado touched down briefly near Main Street and Highway 45/Central Street in Ferris. A silo near 7th and Main Streets sustained damage and partially collapsed. There was roof damage to multiple business buildings south of 5th Street and along Main and Central Streets. A downed power pole and an uprooted tree were also noted in the same area. The damage was consistent with winds speeds between 75 and 85 mph, or EF-0 intensity. Sporadic wind damage was found across other portions of Ferris with damage mainly to trees and roofing.

.Rockwall Tornado...

Rating: EF-1
 Peak Wind /Estimated/: 90 mph
 Path Length /statute/: 1.96 miles
 Path Width /maximum/: < 100 yards
 Fatalities: 0
 Injuries: N/A

Start Date: 10/20/2019
 Start Time: 9:48 PM CDT
 Start Location: West City of Rockwall/Rockwall County/TX
 Start Lat/Lon: 32.93 / -96.48

End Date: 10/20/2019
 End Time: 9:54 PM CDT
 End Location: East City of Rockwall/Rockwall County/TX
 End Lat/Lon: 32.94 / -96.45

Survey Summary: Wind damage was observed in Rockwall generally parallel with and north of US 66, from the eastern shore of Lake Ray Hubbard into northeastern Rockwall. The most intense damage was observed close to the lake, along Sunset Hill Drive where several homes sustained significant roof damage. As the damage path continued further east across SH 205 damage consisted of downed trees and fences and missing shingles on roofs. Based on eyewitness accounts and video footage, a tornado, with maximum rated wind speeds of 90 mph, or EF-1 has been confirmed. The tornado is believed to have developed over Lake Ray Hubbard with a path length of almost 2 miles.

.Kaufman Tornado...

Rating: EF-0
 Estimated Peak Wind: 80 mph
 Path Length /statute/: 0.04 miles
 Path Width /maximum/: 50 yards
 Fatalities: 0
 Injuries: 0

Start Date: 10/20/2019
 Start Time: 10:10 PM CDT
 Start Location: 5 N of Kaufman / Kaufman County / TX
 Start Lat/Lon: 32.67 / -96.32

End Date: 10/20/2019
 End Time: 10:11 PM CDT
 End Location: 5 N of Kaufman / Kaufman County / TX
 End Lat/Lon: 32.67 / -96.32

Survey Summary: A tornado briefly formed approximately 5 miles north of Kaufman, partially removing a portion of metal roofing from a single-family residence. A large section of this roofing was blown back toward the southwest, into a powerline. A nearby power pole was also partially snapped. The tornado dissipated shortly after impacting this single residence.

.Elmo Tornado...

Rating: EF-1
 Estimated Peak Wind: 105 mph
 Path Length /statute/: 0.50 miles
 Path Width /maximum/: 250 yards

Fatalities: 0
 Injuries: 0

Start Date: 10/20/2019
 Start Time: 10:39 PM CDT
 Start Location: 3.5 miles SE of Elmo/Kaufman County/TX
 Start Lat/Lon: 32.67 / -96.14

End Date: 10/20/2019
 End Time: 10:41 PM CDT
 End Location: 3.7 miles SE of Elmo/Kaufman County/TX
 End Lat/Lon: 32.68 / -96.14

Survey Summary: A tornado formed in open country approximately 3.5 miles SE of Elmo. Moving northeastward, this tornado removed sheet metal from an outbuilding on ranch property. Immediately after crossing Kaufman County Road 314, the tornado intensified, snapping two power poles along CR 314 and impacting a single family residence and adjacent outbuildings. An adjacent metal barn was severely damaged, with the sheet metal roof almost completely removed and steel trusses severely bent. Several large trees on the property were snapped or sustained major trunk damage. A personal weather station on the roof of the home measured a wind gust of 100 mph during the tornado, and damage elsewhere on the property was consistent with 95-105 mph EF-1 intensity wind speeds. The tornado continued northeastward beyond the damaged residence for approximately 200 yards before dissipating. This tornado was spawned by the same supercell that produced the EF-0 tornado 5N of Kaufman, as well as damage observed farther SW near Midlothian, and NE toward Wills Point.

.Wills Point Tornado...

Rating: EF-0
 Estimated Peak Wind: 78 mph
 Path Length /statute/: 0.63 miles
 Path Width /maximum/: 200 yards
 Fatalities: 0
 Injuries: N/A

Start Date: 10/20/2019
 Start Time: 10:59 PM CDT
 Start Location: 1.9 N of Wills Point/Van Zandt County/TX
 Start Lat/Lon: 32.73 / -96.00

End Date: 10/20/2019
 End Time: 11:04 PM CDT
 End Location: 2 NE of Wills Point/Van Zandt County/TX
 End Lat/Lon: 32.73 / -95.99

Survey Summary: A brief tornado touched down in Van Zandt County around 2300 CDT 10/20/19. The tornado formed 1/4 mile east of Van Zandt County Road 3801, tracking east through a neighborhood of manufactured homes along Van Zandt County Road 3849. The tornado was approximately 200 yards wide and was on the ground for a little more than 1/2 mile in its 5 minute lifespan. The tornado dissipated just east of Lake Dr., Highway 47. Multiple roofs sustained damaged, mainly on the south side of Van Zandt County Road 3849. Multiple sheds and carports were overturned and damaged. A few small trees were uprooted and tree branches were broken on numerous trees, all consistent with EF-0 damage between 70 and 78 mph.

.Stephenville Thunderstorm Wind Event...

Estimated Peak Wind: 80 mph
Path Length /statute/: 2.50 miles
Path Width /maximum/: 1.0 miles
Fatalities: 0
Injuries: 0

Start Date: 10/21/2019
Start Time: 12:15 AM CDT
Start Location: 1.25 W of Stephenville/Erath County/TX
Start Lat/Lon: 32.21 / -98.23

End Date: 10/21/2019
End Time: 12:20 AM CDT
End Location: 1.25 SE of Stephenville/Erath County/TX
End Lat/Lon: 32.21 / -98.18

Survey Summary: A line of severe thunderstorms moved across Erath County, producing a pattern of downburst straight-line wind damage within the City of Stephenville. Minor tree damage, consistent with 50 mph winds, was first observed approximately 3 blocks west of the Tarleton State University campus. Wind damage increased on the Tarleton campus proper, highlighted by widespread tree branch and trunk damage, and the partial removal of roofing material from a multi-story dormitory building. Maximum wind speeds at this dorm were estimated at 75 mph, based on the severity of the damage. Several other buildings on the Tarleton campus also sustained minor damage. East of campus, numerous trees were damaged toward the downtown areas of Stephenville, and at least one porch roof was detached from a single-family home. The roof of the main fire station in downtown Stephenville sustained major damage, as large sections of metal roofing material were removed from the structure and deposited in the street. Straight line wind speeds at this fire station were estimated to be 80 mph. Adjacent businesses in the downtown area also received minor wind damage - mainly to window glass and roof fascia. Additional scattered tree damage was observed just east through south of downtown Stephenville. The downburst appeared to dissipate near the intersection of US Highway 281 and US Highway 377 on the east side of the city.

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EF Scale: The Enhanced Fujita Scale classifies tornadoes into the following categories:

EF0...Weak.....65 to 85 mph
EF1...Weak.....86 to 110 mph
EF2...Strong....111 to 135 mph
EF3...Strong....136 to 165 mph
EF4...Violent...166 to 200 mph
EF5...Violent...>200 mph

NOTE:

The information in this statement is preliminary and subject to change pending final review of the events and publication in NWS Storm Data.

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G. Damage Survey (thunderstorm wind event; downburst)

NOUS41 KPHI 181750
PNSPHI

DEZ001>004-MDZ008-012-015-019-020-NJZ001-007>010-012>027-PAZ054-
055-060>062-070-071-101>106-190600-

Public Information Statement
National Weather Service Mount Holly NJ
150 PM EDT Thu Jul 18 2019

...NWS Damage Survey for 07/19/2019 Thunderstorm Wind event...

.Stephenville Downburst Straight-line Wind Event...

Estimated Peak Wind: 80 mph
Path Length /statute/: 1.0 miles
Path Width /maximum/: 1.0 miles
Fatalities: 0
Injuries: 0

Start Date: 7/17/2019
Start Time: 8:15 PM EDT
Start Location: Ewing Township / Mercer County / NJ
Start Lat/Lon: 40.2559 / -74.7828

End Date: 7/17/2019
End Time: 8:17 PM EDT
End Location: Ewing Township / Mercer County / NJ
End Lat/Lon: 40.2594 / -74.7734

.Survey Summary...

A downburst associated with a thunderstorm ahead of a squall line produced estimated wind gusts of 80 mph Wednesday evening in Ewing Township, NJ at around 815 pm EDT. Damage from this straight-line wind event was bounded by the following roads, Western Avenue, Sussex Street, Buttonwood Drive, and Ardsley Avenue. Up to 100 trees were damaged during this wind event, with between 10 and 20 large trees completely uprooted. Three homes were damaged from fallen trees, with one home destroyed. The worst damage occurred in the vicinity of the Pennington Road Fire Company on Route 31 (Pennington Road).

Over 4000 customers were without power after the storm due to damage to electric lines and poles as a result of the wind and falling trees. A second wind event just 30 minutes later was associated with the trailing squall line. This produced estimated wind gusts in the 30 to 50 mph range with little or no additional damage.

NWS Mount Holly would like to thank the Ewing Police Department for their assistance with this survey, and the numerous area residents who provided valuable eye-witness accounts and information.

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NOTE:

The information in this statement is preliminary and subject to change pending final review of the events and publication in NWS Storm Data.

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H. Damage Survey Plans (Optional; Generic Format)

NOUS41 KILN 281313
PNSILN

OHZ034-035-061-062-290115-

Public Information Statement
National Weather Service Wilmington OH
913 AM EDT Tue May 28 2019

...NWS Damage Surveys Planned for 05/27/2019 Southwestern Ohio Tornado Event...

The National Weather Service office in Wilmington OH has storm survey teams headed to Mercer, Montgomery, Pickaway, and Greene counties in Ohio. Additional teams will be sent as additional resources become available. Storm surveys will likely take several days. The surveys are in relation to the severe thunderstorms that moved through the area on May 27th and May 28th 2019.

A final assessment including results of the surveys are expected to be completed and transmitted via a Public Information Statement over the next several days.

The storm survey information will also be available on our website at <http://www.weather.gov/iln>

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I. Damage Survey Update (Optional; Generic Format)

NOUS43 KMPX 172037
PNSMPX
MNZ041>045-047>070-073>078-082>085-091>093-291545-

Public Information Statement
National Weather Service Twin Cities/Chanhassen MN
340 PM CDT Wed July 17 2019

...NWS Damage Survey for 07/15/2019 Rusk County Storm Damage...

NWS surveyed damage that occurred from Monday's severe weather north and northeast of Bruce, Wisconsin. A Damage survey team was unable to find any conclusive evidence that a tornado occurred. More information will be assessed and provided over the next few days.

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J. Precipitation Report Summary

a. Multi-day Storm Total Snowfall

NOUS45 KLKN 110209
PNSLKN
NVZ030-031-033>041-111415-

Public Information Statement
National Weather Service Elko NV
709 PM PDT Fri Apr 10 2020

...Storm Total Snowfall 4/7/20 10 PM through 4/9/20 1 PM...

Snowfall Accumulations as of 4/9/20 10 PM

Humboldt County

Site/Source	Elev	Snow (in)	Reference Location
Granite Peak/SNOTEL.....	7800.....	1.0.....	Paradise Valley 12 N
Lamance Creek/SNOTEL.....	6000.....	1.0.....	Paradise Valley 5 WNW
Summit Lake/SNOTEL.....	7649.....	1.0.....	Denio 40 SSW

Northern Elko County

Site/Source	Elev	Snow (in)	Reference Location
Bear Creek/SNOTEL.....	7800.....	2.0.....	Jarbridge 3 SSW
Big Bend/SNOTEL.....	6700.....	1.0.....	Mountain City 15 ESE
Columbia Basin/SNOTEL.....	6650.....	2.0.....	Mountain City 13 SSW
Fawn Creek/SNOTEL.....	7000.....	2.0.....	Mountain City 7 W
Fry Canyon/SNOTEL.....	6700.....	3.0.....	Mountain City 18 S
Jack Creek Upper/SNOTEL.....	7250.....	4.0.....	Tuscarora 20 NNE
Jacks Peak/SNOTEL.....	8420.....	3.0.....	Tuscarora 18 NE
Merritt Mountain/SNOTEL.....	7000.....	3.0.....	Mountain City 6 NE
Snowstorm Mountain/SNOTEL.....	7420.....	2.0.....	Midas 12 NW
Toe Jam/SNOTEL.....	7750.....	1.0.....	Tuscarora 6 W

Southwestern Elko County

Site/Source	Elev	Snow (in)	Reference Location
Lamoille 2 N/COOP.....	5750.....	T.....	Lamoille 1 NNW

Ruby Mountains And East Humboldt Range

Site/Source	Elev	Snow (in)	Reference Location
Corral Canyon/SNOTEL.....	8500.....	2.0.....	Jiggs 12 SE
Dorsey Basin/SNOTEL.....	8100.....	1.0.....	Deeth 13 SSE
Dry Creek/SNOTEL.....	6500.....	2.0.....	Deeth 14 SSE
Green Mountain/SNOTEL.....	8000.....	3.0.....	Jiggs 8 ESE
Lamoille #3/SNOTEL.....	7700.....	4.0.....	Lamoille 7 SE
Pole Canyon/SNOTEL.....	7700.....	2.0.....	Deeth 16 SE

Northern Lander And Eureka Counties

Site/Source	Elev	Snow (in)	Reference Location
Lewis Peak/SNOTEL.....	7400.....	4.0.....	Crescent Valley 15 WSW

Southern Lander And Eureka Counties

Site/Source	Elev	Snow (in)	Reference Location
Big Creek Summit/SNOTEL.....	8700.....	5.0.....	Kingston 6 NNW
Diamond Peak/SNOTEL.....	8000.....	1.0.....	Eureka 7 ENE
Eureka/COOP.....	6430.....	0.4.....	Eureka
Vacarro Spring/SNOTEL.....	7860.....	8.0.....	Eureka 4 SSW

Northwestern Nye County

Site/Source	Elev	Snow (in)	Reference Location
Round Mountain 5.4W.....	5783.....	1.2.....	Round mountain 5.4W
Tonopah/COOP.....	6010.....	T.....	Tonopah

White Pine County

Site/Source	Elev	Snow (in)	Reference Location
Berry Creek/SNOTEL.....	9100.....	8.0.....	McGill 10 ESE
Cave Mountain/SNOTEL.....	10510.....	9.0.....	Majors Place 10 NNW
Corduroy Flat/SNOTEL.....	8720.....	9.0.....	Duckwater 17 NE
Defiance Mines/SNOTEL.....	9200.....	10.0.....	Ely 11 S
Ely/Snow Observer.....	6487.....	2.1.....	Ely 1 SW
Ely 25.0 SSW/COCORAHS.....	5657.....	0.4.....	Preston
Ely 3.9 NE/COCORAHS.....	6259.....	0.5.....	Ely 3.9 NE
Kalamazoo/SNOTEL.....	7965.....	1.0.....	Mcgill 13 NE
Moorman Ranch/COOP.....	6539.....	3.0.....	Ruth 19 WNW
Ruth/COOP.....	6858.....	3.1.....	Ruth
Silver Creek/SNOTEL.....	8000.....	2.0.....	Baker 16 NW
Ward Mountain/SNOTEL.....	9200.....	12.0.....	Ely 10 SSW
Wheeler Peak/SNOTEL.....	10147.....	11.0.....	Baker 11 W
White River/SNOTEL.....	7440.....	3.0.....	Currant 15 NNE

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b. 24-hour Storm Total Snowfall and Water Equivalent

NOUS45 KSLC 161715
 PNSSLIC

Public Information Statement
 National Weather Service Salt Lake City UT
 1111 AM MDT Thu Apr 16 2020

...Preliminary Storm Information...

Below are precipitation and snow amounts accumulated over the past 24 hours along with wind reports for the current storm.

***** Precip Reports *****	Time	Snow	Precip
...Cache Valley/Utah Portion...			
North Logan - 4749 ft	8 AM Thu	5.5	0.40
Logan	7 AM Thu	2.8	
Providence - 4547 ft	7 AM Thu	1.5	0.15
Logan - 4805 ft	9 AM Thu	1.3	0.25
Providence - 4528 ft	7 AM Thu	1.3	0.09
Logan Radio - 4470 ft	7 AM Thu	1.0	0.12
Richmond - 4576 ft	7 AM Thu	0.8	0.29
Logan Campbell Hq - 4455 ft	10 AM Thu		0.25
Smithfield - 4760 ft	10 AM Thu		0.20
Logan - Cache Airport - 4446 ft	10 AM Thu		0.19
North Logan - 4875 ft	11 AM Thu		0.11
Mendon - 4524 ft	10 AM Thu		0.06
...Northern Wasatch Front...			
West Weber - 4248 ft	7 AM Thu	0.1	0.22
Fruit Heights - 4802 ft	7 AM Thu		0.38
Ogden Pioneer Power House - 4350 ft	10 AM Thu		0.30
Roy	8 PM Wed		0.29
Beus Canyon - 5100 ft	7 PM Wed		0.27
Farmington - 4239 ft	7 AM Thu		0.26
Hill Air Force Base - 4787 ft	10 AM Thu		0.19

Ogden - Hinckley Airport - 4440 ft	10 AM Thu	0.17
Riverdale Rd at I-84 - 4415 ft	10 AM Thu	0.16
Garland 1 SE - 4328 ft	6 AM Thu	0.16
Bountiful Bench - 5114 ft	6 PM Wed	0.16
West Haven - 4239 ft	7 AM Thu	0.15
Thatcher - 4414 ft	7 AM Thu	0.14
Great Salt Lake Minerals - 4212 ft	10 AM Thu	0.11
Tremonton - 4292 ft	7 AM Thu	0.11
Brigham City - 4418 ft	7 AM Thu	0.10
Bear River City 2.3 WNW - 4258 ft	8 AM Thu	0.08
I-15 at Plymouth - 4495 ft	10 AM Thu	0.06
Perry - 4491 ft	8 AM Thu	0.06
Thatcher - 4292 ft	6 AM Thu	0.06
Fremont Island - Miller Hill - 4700 ft	11 AM Thu	0.02
Centerville - 4220 ft	9 AM Thu	0.02

***** Wind Reports *****

	Time	Windspeed
...Salt Lake and Tooele Valleys...		
Vernon Hill - 5761 ft	5 PM Wed	43 MPH
...Great Salt Lake Desert and Mountains...		
Sr-30 at Curlew - 4766 ft	6 PM Wed	48 MPH
Hat Island - 4242 ft	7 PM Wed	45 MPH
Baker Lab - 4294 ft	6 PM Wed	45 MPH
I-80 at Mp 1 - 4270 ft	6 PM Wed	43 MPH
Lakeside Mountain - 5039 ft	7 PM Wed	42 MPH
Locomotive Springs - 4242 ft	6 PM Wed	42 MPH
Target R - 4311 ft	8 PM Wed	41 MPH
Interstate 80 - 4125 ft	8 PM Wed	41 MPH
I-80 at Mp 29 - 4125 ft	8 PM Wed	41 MPH
Causeway - 4246 ft	6 PM Wed	41 MPH
...Wasatch Mountains I-80 North...		
Ogden Peak - 9570 ft	3 PM Wed	56 MPH
Peter Sinks Rim - 8434 ft	6 PM Wed	41 MPH
...Wasatch Mountains South of I-80...		
Central Wasatch Peaks - 10994 ft	11 PM Wed	71 MPH
Central Wasatch Peaks - 11066 ft	10 PM Wed	58 MPH
Bunnells - 8800 ft	7 AM Thu	43 MPH
...Western Uinta Basin...		
Duchesne - 5826 ft	4 PM Wed	44 MPH
Us-40 @ Starvation - 5720 ft	4 PM Wed	41 MPH
Roosevelt - 5171 ft	2 PM Wed	41 MPH
...West Central Utah...		
Tule Valley - 5135 ft	5 PM Wed	42 MPH
...Central Utah Mountains...		
Sr-72 At Hogan Pass - 8977 ft	10 PM Wed	45 MPH

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c. More than one Precipitation Type

NOUS43 KBIS 030248
PNSBIS

NDZ001>005-009>013-017>023-025-031>037-040>048-050-051-031448-

Public Information Statement
National Weather Service Bismarck ND
948 PM CDT Thu Apr 2 2020

...SNOWFALL REPORTS AS OF 9 PM CDT...

Location	Amount	Time/Date	Provider
5 SW Leith	6.0 in	0551 PM 04/02	Public
4 SE Martin	5.0 in	0508 PM 04/02	Public
Ellendale	5.0 in	0126 PM 04/02	Emergency Mngr
Carson	5.0 in	1141 AM 04/02	Emergency Mngr
Harvey	4.5 in	1120 AM 04/02	Broadcast Media
Cathay	4.0 in	0840 PM 04/02	Public
4 W Menoken	4.0 in	1230 PM 04/02	Public
New Salem	4.0 in	1115 AM 04/02	Trained Spotter
3 SSE Bismarck	3.6 in	0137 PM 04/02	Official NWS Obs
3 SSE Bismarck	2.9 in	1149 AM 04/02	Official NWS Obs
Glen Ullin	2.3 in	1257 PM 04/02	Trained Spotter
8 NE Havelock	2.0 in	0148 PM 04/02	Public

...FREEZING RAIN REPORTS AS OF 9 PM CDT...

Location	Amount	Time/Date	Provider
Ellendale	0.15 in	0612 AM 04/02	Emergency Mngr

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

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d. Multiple States

NOUS41 KALY 181448
PNSALY
CTZ001-013-MAZ001-025-NYZ032-033-038>043-047>054-058>061-063>066-082>084-
VTZ013>015-190248-

Public Information Statement
Spotter Reports
National Weather Service Albany NY
1048 AM EDT Sat Apr 18 2020

The following are unofficial observations taken during the past 8 hours for the storm that has been affecting our region. Appreciation is extended to highway departments, cooperative observers, Skywarn spotters and media for these reports. This summary also is available on our home page at weather.gov/albany

*****STORM TOTAL SNOWFALL*****

LOCATION	STORM TOTAL SNOWFALL /INCHES/	TIME/DATE OF MEASUREMENT	COMMENTS
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CONNECTICUT

...Litchfield County...

NWSI 10-501 JANUARY 25, 2021

1 NW Goshen	4.5	645 AM	4/18	CoCoRaHS
Norfolk	4.4	800 AM	4/18	Co-Op Observer
Colebrook	4.1	733 AM	4/18	Co-Op Observer
1 NE Colebrook	4.1	700 AM	4/18	CoCoRaHS
3 SW New Hartford Ce	3.6	700 AM	4/18	CoCoRaHS
Bakersville	3.6	700 AM	4/18	Co-Op Observer
2 NNE Litchfield	3.5	745 AM	4/18	CoCoRaHS
Harwinton	2.2	444 AM	4/18	Public
4 ESE Canaan	1.5	700 AM	4/18	CoCoRaHS
2 WNW Warren	1.3	700 AM	4/18	CoCoRaHS
Warren	1.3	616 AM	4/18	Public
Lakeville	1.0	616 AM	4/18	Public

MASSACHUSETTS

...Berkshire County...

Otis	4.0	800 AM	4/18	Broadcast Media
3 S Sandisfield	3.9	945 AM	4/18	Trained Spotter
4 SE Lee	3.5	825 AM	4/18	CoCoRaHS
Savoy	3.3	1000 AM	4/18	Social Media
Pittsfield	2.5	652 AM	4/18	WeatherNet6
Clarksburg	2.0	1001 AM	4/18	WeatherNet6
1 NNW Cheshire	1.6	700 AM	4/18	CoCoRaHS
Cheshire	1.0	630 AM	4/18	Broadcast Media
NNE Stockbridge	1.0	600 AM	4/18	CoCoRaHS
Great Barrington	1.0	600 AM	4/18	Broadcast Media
Williamstown	0.5	930 AM	4/18	Social Media

NEW YORK

...Albany County...

Knox	3.5	1020 AM	4/18	WeatherNet6
Rensselaerville	3.2	614 AM	4/18	WeatherNet6
South Berne	3.0	554 AM	4/18	WeatherNet6
3 SSW Altamont	2.6	730 AM	4/18	CoCoRaHS
Alcove Dam	1.0	730 AM	4/18	Co-Op Observer
Alcove Reservoir	1.0	730 AM	4/18	Co-Op Observer
Albany Intl AP	0.5	800 AM	4/18	ASOS
Colonie	0.5	650 AM	4/18	WeatherNet6
Albany	0.2	800 AM	4/18	NWS Albany Office
NWS Albany	0.2	800 AM	4/18	CoCoRaHS

...Columbia County...

3 N Austerlitz	4.5	920 AM	4/18	Meteorologist
Austerlitz	3.0	909 AM	4/18	Elevation 1300 feet
Taghkanic	0.9	747 AM	4/18	WeatherNet6
1 SSW Livingston	0.8	730 AM	4/18	CoCoRaHS
Livingston	0.8	746 AM	4/18	WeatherNet6
Ancramdale	0.7	725 AM	4/18	WeatherNet6
N Ancramdale	0.5	700 AM	4/18	CoCoRaHS
Germantown	0.5	619 AM	4/18	WeatherNet6
2 E Chatham	0.3	734 AM	4/18	Trained Spotter

...Greene County...

Prattsville	3.8	944 AM	4/18	WeatherNet6
East Jewett	3.0	700 AM	4/18	Trained Spotter
1 E Greenville	2.5	700 AM	4/18	CoCoRaHS
Greenville Center	2.5	620 AM	4/18	WeatherNet6
3 E Freehold	1.8	700 AM	4/18	CoCoRaHS

VERMONT

...Bennington County...

5 NW Readsboro	3.3	958 AM	4/18	Public
Woodford	2.5	718 AM	4/18	WeatherNet6
Peru	1.0	700 AM	4/18	Co-Op Observer
1 NNE Landgrove	1.0	700 AM	4/18	CoCoRaHS
Landgrove	1.0	559 AM	4/18	WeatherNet6
3 ENE Manchester	0.7	700 AM	4/18	CoCoRaHS

...Windham County...

Athens	2.0	855 AM	4/18	Social Media
SE West Halifax	2.0	717 AM	4/18	CoCoRaHS
6 NW Westminster	1.5	700 AM	4/18	CoCoRaHS
1 NNE Rockingham	1.0	800 AM	4/18	CoCoRaHS
1 S Brattleboro	0.4	700 AM	4/18	CoCoRaHS

&&

e. 24-hour Rainfall Total

NOUS42 KTAE 201406

PNSTAE

ALZ065>069-FLZ007>019-026>029-034-108-112-114-115-118-127-128-134-GAZ120>131-142>148-155>161-210206-

Public Information Statement
 National Weather Service Tallahassee FL
 1006 AM EDT Mon Apr 20 2020

...PRECIPITATION REPORTS FOR THE PAST 24 HOURS...

Location	Amount	Time/Date	Lat/Lon
2.4 SW Irwinville	2.36 in	0900 AM 04/20	31.63N/83.42W
Fitzgerald 4.3 N	2.03 in	0700 AM 04/20	31.77N/83.26W
1.9 S Philema	1.74 in	0945 AM 04/20	31.73N/84.02W
1.5 SE Crossroads	1.63 in	0900 AM 04/20	31.82N/84.97W
1.2 W Dickey	1.63 in	0900 AM 04/20	31.55N/84.68W
5.3 W Moody Afb	1.61 in	0845 AM 04/20	30.95N/83.27W
Jakin 10.7 NNW	1.57 in	0735 AM 04/20	31.23N/85.07W
Cedar Springs	1.54 in	0900 AM 04/20	31.18N/85.04W
De Funiak Springs 4.1 NNW	1.46 in	0800 AM 04/20	30.78N/86.14W
2.7 W Jordan Place	1.44 in	0930 AM 04/20	31.76N/84.25W
De Funiak Sprngs	1.41 in	0955 AM 04/20	30.73N/86.15W
Hosford 2.7 SW	1.36 in	0700 AM 04/20	30.35N/84.82W
Adel	1.35 in	0904 AM 04/20	31.11N/83.43W
Enterprise	1.34 in	0955 AM 04/20	31.30N/85.90W
Ft Rucker Shell	1.33 in	0958 AM 04/20	31.37N/85.85W
De Funiak Springs 12.5 NW	1.32 in	0800 AM 04/20	30.84N/86.28W
2.3 S Columbia	1.30 in	0900 AM 04/20	31.26N/85.11W
1.4 NE Hillsdale	1.30 in	0900 AM 04/20	31.48N/83.58W
Kinsey 2.2 E	1.29 in	0700 AM 04/20	31.29N/85.30W
Rehobeth 2.1 SSW	1.26 in	0800 AM 04/20	31.09N/85.46W
Moody Fire Weather	1.25 in	0918 AM 04/20	30.98N/83.18W
Tifton 2.0 ENE	1.24 in	0800 AM 04/20	31.48N/83.48W
Tifton 1.4 ENE	1.22 in	0700 AM 04/20	31.47N/83.49W
Geneva	1.22 in	0800 AM 04/20	31.04N/85.87W
0.7 W Chipley	1.20 in	0800 AM 04/20	30.78N/85.55W
3.3 NW Hawkeinstown	1.18 in	0845 AM 04/20	31.29N/84.49W

Fountain 3.4 SSE	1.13 in	0727 AM	04/20	30.43N/85.40W
Adel 1.9 SSE	1.13 in	1200 AM	04/20	31.11N/83.41W
Starksville	1.12 in	0945 AM	04/20	31.78N/84.14W
Enterprise 3.8 ESE	1.11 in	0800 AM	04/20	31.30N/85.79W
0.5 S Spring Creek	1.11 in	0900 AM	04/20	30.07N/84.33W
Kinston	1.05 in	0958 AM	04/20	31.22N/86.17W
Camilla	1.04 in	0904 AM	04/20	31.21N/84.24W
Dothan	1.04 in	0953 AM	04/20	31.32N/85.45W
Albany	1.02 in	0953 AM	04/20	31.53N/84.20W
3.7 SW Dawesville	1.02 in	0900 AM	04/20	30.88N/84.05W
Panama City Beach 0.3 SW	1.01 in	0700 AM	04/20	30.21N/85.86W

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

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K. Service Change Notice

NOUS41 KWBC 151745
PNSWSH

Service Change Notice 20-44
National Weather Service Headquarters Silver Spring MD
145 PM EDT Wed Apr 15 2020

To: Subscribers
-NOAA Weather Wire Service
-Emergency Managers Weather Information Network
-NOAAPort
Other NWS Partners, Users and Employees

From: Bruce Entwistle
Chief, Aviation and Space Weather Services Branch
Fiona Horsfall
Chief, Climate Services Branch

Subject: Cessation of Weather Observations and Suspension of TAF and Climate Products for Bisbee-Douglas International Airport (KDUG) in Arizona effective April 15, 2020, until further notice

Effective Wednesday, April 15, 2020, weather observations from the Automated Surface Observation System (ASOS) at Bisbee-Douglas International Airport (KDUG) will be suspended due to ongoing construction at the equipment facility. The date of a resumption in service is not known. An updated Service Change Notice will be sent when service resumes.

Notification is shorter than required in NWS Instruction 10-1805 due to the unforeseen need for immediate closure.

Due to the cessation in the weather observation, the NWS office in Tucson, AZ, will suspend Terminal Aerodrome Forecast (TAF) service for Bisbee-Douglas International Airport. Daily and monthly climate reports for the site also will be suspended.

The following products are impacted:

Product Name	WMO Heading	AWIPS ID
Terminal Aerodrome Forecast	FTUS45 KTWC	TAFDUG
Daily Climate Report	CDUS45 KTWC	CLIDUG
Monthly Climate Report	CXUS55 KTWC	CLMDUG
Preliminary Climatological Data	CXUS55 KTWC	CF6DUG

For questions regarding this suspension, please contact:

Marc Singer
Meteorologist in Charge
NWS Tucson, AZ
520-670-5156 x222
marc.singer@noaa.gov

or

Ken Drozd
Warning Coordination Meteorologist
NWS Tucson, AZ
520-670-5156 x223
kenneth.drozd@noaa.gov

National Service Change Notices are online at:
<https://www.weather.gov/notification/>

NNNN

3. Weather Summary

a.

AWUS84 KSJT 191509
RWSSJT

REGIONAL WEATHER SUMMARY
NATIONAL WEATHER SERVICE SAN ANGELO TX
1009 AM CDT Sun Apr 19 2020

Late this morning across West Central Texas, skies were mostly sunny across the I-10 corridor and southeast Concho Valley, and partly to mostly cloudy elsewhere. Temperatures were in the low 60s to low 70s, and winds were from the west to southwest at 10 to 15 mph with gusts to 25 mph.

Here is the forecast summary for West Central Texas. Temperatures will be warmer today, with highs a few to several degrees above normal. Dry weather will

prevail Monday and Tuesday, with a chance for showers and a few thunderstorms late Tuesday night and Wednesday.

\$\$

b.

AWUS83 KTOP 201000
 RWSKS
 KSZ001>105-210000-
 KANSAS STATE WEATHER SUMMARY
 NATIONAL WEATHER SERVICE TOPEKA KS
 500 AM CDT Mon Apr 20 2020

.Today...Partly cloudy east and south. Mostly clear northwest. A slight chance for thunderstorms northeast. A chance for rain showers southeast. Highs from the upper 60s northwest to the upper 60s northeast.
 .Tonight...Mostly clear northwest to partly cloudy northeast. Lows from the middle 30s southwest to the middle 40s southeast.
 .Tuesday...Mostly sunny east and south. Partly cloudy northwest. Highs from the middle 60s southwest to the upper 60s northwest.
 .Tuesday Night...Mostly clear east and south. Partly cloudy northwest. A chance for thunderstorms southeast. Lows from the middle 30s southwest to the upper 40s southeast.

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4. Weather Roundup
a. Land Observations

ASUS43 KEAX 201315
 RWREAX

WEATHER ROUNDUP FOR EASTERN KANSAS AND NORTHWEST MISSOURI
 NATIONAL WEATHER SERVICE KANSAS CITY/PLEASANT HILL MO
 800 AM CDT MON APR 20 2020

KSZ040-057-103>105-MOZ028-029-037-043-201400-
 ...KANSAS CITY METROPOLITAN AREA...

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
K.C. INTL	CLOUDY	49	41	74	CALM	29.87R	
K.C. DOWNTOWN	CLOUDY	48	41	76	CALM	29.87F	
LEES SUMMIT	PTSUNNY	50	40	68	E6	29.88S	
OLATHE - IXD	FAIR	46	40	79	S7	29.87F	
OLATHE - OJC	PTSUNNY	47	40	76	SW6	29.87F	
LAWRENCE	PTSUNNY	50	44	80	CALM	29.87R	

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MOZ001>008-011>017-020>025-030>033-038>040-044>046-053-054-201400-
 ...NORTHERN AND CENTRAL MISSOURI...

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ST. JOSEPH	FAIR	45	42	89	CALM	29.87S	
MOSBY	PTSUNNY	43	41	93	CALM	29.89S	
HARRISONVILLE	PTSUNNY	48	41	76	N7	29.91F	
WHITEMAN AFB	MOSUNNY	46	46	98	CALM	29.85R	

CLINTON	FAIR	48	45	87	CALM	29.90R
SEDALIA	FAIR	50	40	68	CALM	29.89R
MARSHALL	N/A	N/A	N/A	N/A	MISG	N/A
CHILLICOTHE	N/A	44	41	89	CALM	29.88R
KIRKSVILLE	CLOUDY	44	38	79	E3	29.85R

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MOZ041-047>049-056>058-063>065-088>090-097-201400-
 ...EASTERN AND SOUTHERN MISSOURI...

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ST. LOUIS INTL	FAIR	50	36	58	W3	29.86R	
SPIRIT OF STL	FAIR	45	40	82	SW3	29.86R	
COLUMBIA	FAIR	50	39	66	S3	29.87R	
JEFFERSON CITY	FAIR	44	38	79	CALM	29.88R	
MEXICO	FAIR	45	37	76	CALM	29.87R	
HANNIBAL	FAIR	50	32	50	CALM	29.86R	
ROLLA	FAIR	50	41	71	CALM	29.87R	
LEBANON	FAIR	52	37	58	SE3	29.89R	
OSAGE BEACH	FAIR	44	40	85	CALM	29.90R	
SPRINGFIELD	FAIR	49	45	86	S7	29.86R	
BRANSON	MOSUNNY	50	50	100	CALM	29.90R	
JOPLIN	FAIR	50	48	93	CALM	29.89R	FOG
WEST PLAINS	FAIR	52	44	74	NE3	29.89	
SIKESTON	FAIR	52	45	76	NW3	29.86R	

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IAZ060-094-KSZ022-034>040-054-083-096-NEZ052-066-093-201400-
 ...KANSAS...SOUTHEAST NEBRASKA AND IOWA...

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
TOPEKA	FAIR	50	44	80	CALM	29.86S	
MANHATTAN	FAIR	51	46	83	SW7	29.85R	
EMPORIA	FAIR	50	46	86	SE8	29.87F	
OTTAWA	PTSUNNY	50	48	93	S10	29.86F	
CHANUTE	FAIR	53	40	61	NE3	29.89R	
SALINA	FAIR	48	41	76	S6	29.86S	
WICHITA	FAIR	51	45	79	CALM	29.87R	
OMAHA	PTSUNNY	45	40	82	N8	29.86R	
LINCOLN	FAIR	43	36	76	CALM	29.87R	
FALLS CITY	PTSUNNY	44	40	85	CALM	29.85S	
LAMONI	PTSUNNY	46	37	71	CALM	29.85R	
DES MOINES	CLOUDY	44	38	79	SW6	29.84R	

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b. Land and Buoy Observations

ASHW40 PHFO 201344
 RWRHI

WEATHER ROUNDUP FOR HAWAII
 NATIONAL WEATHER SERVICE HONOLULU HI
 300 AM HST MON APR 20 2020

THIS IS AN AUTOMATED REPORT THAT HAS NOT BEEN QUALITY CONTROLLED.

NWSI 10-501 JANUARY 25, 2021

NOTE..."FAIR" INDICATES FEW OR NO CLOUDS BELOW 12,000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

* - THESE SITES REPORT LIMITED FIELDS

- BUOY DATA PROVIDED BY PACIFIC ISLANDS OCEAN OBSERVING SYSTEM.

HIZ001>004-201400-
KAUAI-NIIHAU-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
LIHUE APT	FAIR	67	64	90	W9	30.01F	
PORT ALLEN*	N/A	66	N/A	N/A	NE7	N/A	
POIPU*	N/A	64	N/A	N/A	N2	N/A	
PRINCEVILLE*	N/A	66	N/A	N/A	SW3	N/A	
KOKOLE POINT*	NOT AVBL						
MOLOAA DAIRY*	N/A	64	63	94	CALM	N/A	
WAIMEA HTS*	N/A	N/A	N/A	N/A	VRB3	N/A	
PUU OPAE*	N/A	61	57	88	NE3	N/A	
PUU LUA*	NOT AVBL						
MAKAHA RIDGE*	N/A	63	59	88	S1	N/A	

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HIZ005>011-201400-
OAHU-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
HONOLULU	FAIR	71	62	73	N5	30.01F	
KALAELOA	FAIR	67	64	90	NE3	30.02F	
KANEOHE MCB	FAIR	76	66	71	CALM	29.99F	
WHEELER FIELD	FAIR	64	64	99	CALM	30.01F	
BELLOWS*	N/A	66	N/A	N/A	SW3	N/A	
KAHUKU*	N/A	66	N/A	N/A	NE1	N/A	
WHEELER*	N/A	63	N/A	N/A	VRB1	N/A	
WAIANA E HARBOR	N/A	73	N/A	N/A	E5	N/A	
DILLINGHAM*	N/A	64	64	100	CALM	N/A	
KAHUKU TRN*	N/A	66	64	94	CALM	N/A	
KAWAIILOA*	NOT AVBL						
KII*	N/A	70	66	88	S3	N/A	
MAKUA RANGE*	N/A	68	64	88	E5	N/A	
OAHU FOREST NW	N/A	64	N/A	N/A	CALM	N/A	
SCHOFIELD BRK*	N/A	61	59	94	SW1	N/A	
SCHOFIELD S*	NOT AVBL						
WAIANA E VLY*	NOT AVBL						
KUAOKALA*	N/A	70	64	83	S6	N/A	
HONOULIUULI*	NOT AVBL						
MOKUOLOE IS*	N/A	72	N/A	N/A	S1	N/A	
PALEHUA*	N/A	63	63	100	SW2	N/A	
WAIAWA PHB*	NOT AVBL						

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HIZ012>013-201400-
MOLOKAI-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
MOLOKAI AIRPT	FAIR	63	59	87	CALM	30.03F	
KALAU PAPA	NOT AVBL						
MAKAPULAPAI*	N/A	64	61	88	S2	N/A	
MOLOKAI 1*	NOT AVBL						
PUU ALII*	N/A	53	53	100	CALM	N/A	

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HIZ016-201400-
KAHOOLAWE-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
KAHOOLAWE*	NOT AVBL						
HAKIOAWA*	NOT AVBL						
HONOKANAIA*	NOT AVBL						
KANELOA*	N/A	70	63	78	NE7G14	30.09F	
KEALIALALO*	NOT AVBL						
LUA MAKIKA*	NOT AVBL						
\$\$							

HIZ014>015-201400-
LANAI-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
LANAI CITY	FAIR	62	32	32	E5	30.07F	
LANAI 1*	NOT AVBL						
\$\$							

HIZ017>028-201400-
MAUI-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
KAHULUI	MOCLDY	67	61	81	SE5	30.01F	
KAPALUA-W MAUI	NOT AVBL						
HANA AIRPORT	MOCLDY	66	64	94	S3	30.04S	
HANA*	N/A	68	N/A	N/A	VRB1	N/A	
HALEAKALA SUMM	N/A	46	25	42	NW5	N/A	VSB 0
MAALAEA BAY*	NOT AVBL						
HALEAKALA*	NOT AVBL						
KAUPO GAP*	NOT AVBL						
KULA 1*	N/A	51	33	50	E3	N/A	
\$\$							

HIZ023>026-201400-
BIG ISLAND OF HAWAII COAST AND LOWER SLOPES-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
KAILUA KONA	FAIR	74	62	66	E5	29.99F	
HILO	FAIR	69	56	62	SW8	30.03F	
HONOKAA*	NOT AVBL						
KAWAIIHAE MWT*	NOT AVBL						
KAWAIIHAE*	N/A	73	N/A	N/A	NE3	29.98	
SOUTH POINT*	N/A	63	N/A	N/A	N8	N/A	
UPOLU AIRPORT*	N/A	68	N/A	N/A	SE8	N/A	
KAMUELA*	MOSUNNY	54	50	87	E8	30.09F	
HAKALAU*	N/A	46	37	71	SW5	N/A	
KALOKO-HONOKO*	N/A	72	63	73	E3	29.99F	
PALI 2*	N/A	55	54	94	VRB7	N/A	
KEALAKOMO*	N/A	72	61	68	VRB6	N/A	
KAUPULEHU*	N/A	64	57	77	SE6	N/A	
KAPAPALA*	N/A	57	57	100	NW5	N/A	
LOWER KAHUKU*	N/A	52	50	93	VRB1	N/A	
PUHE CS*	N/A	72	61	68	NE3	N/A	
PUHO CS*	N/A	72	60	64	E3	N/A	
PTA KEAMUKU*	N/A	55	54	94	S9G15	N/A	
WAIKOLOA*	N/A	64	55	72	E6G15	N/A	
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HIZ027>028-201400-
BIG ISLAND OF HAWAII INTERIOR AND SUMMMITS-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
BRADSHAW FIELD	FAIR	50	36	58	E12	30.28F	
MK VISITOR CEN	N/A	50	23	34	NE6	N/A	
MAUNA KEA*	NOT AVBL						
MAUNA LOA*	NOT AVBL						
MAUNA LOA 1*	NOT AVBL						
PTA KIPUKA*	N/A	45	43	93	E3	N/A	
PTA RANGE 17*	N/A	48	45	87	E3	N/A	
PTA WEST*	N/A	50	48	93	SE8	N/A	
NENE CABIN*	N/A	52	37	58	N5	N/A	
AHUMO A*	N/A	53	35	51	NE3	N/A	
PTA PORTABLE*	NOT AVBL						
PUU MALI*	N/A	55	36	47	SE2G9	N/A	

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HIC003-201400-
NORTHWEST ISLANDS-

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
MIDWAY ISLAND	CLOUDY	64	52	63	NW6	30.10F	
MIDWAY NOS*	N/A	64	N/A	N/A	MISG	30.08F	
FRENCH FRIGATE	NOT AVBL						

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PHZ110>124-180-201400-
BUOY REPORTS

STATION/POSITION	TIME (UTC)	TEMP		WIND		PRES (MB)	WAVE HT/PER (FT/S)	SWELL HT/DIR (FT/D)
		AIR (F)	SEA	DIR/SP/G (DEG/KT/KT)				
BUOY 51101	1200	75	77	210/	6/	8 1015.4		
BUOY 51100	NOT AVBL							
BUOY 51002	1200	76	78	90/	12/	16 1015.5		
BUOY 51003	1200	79	79	80/	8/	10 1017.0		
BUOY 51004	1200	74	77	70/	14/	19 1015.1		
WAIMEA BAY#	1200	76				N/A	5/14	5/310
MOKAPU POINT#	1200	77				N/A	3/14	2/ 40
LANAI#	1200	79				N/A	4/13	3/270
BARBERS PT#	1200	78				N/A	6/14	5/290
PAUWELA#	1200	75				N/A	6/14	5/310
HILO#	1146	77				N/A	5/15	3/330
KANEOHE BAY#	1200	76				N/A	3/14	2/330
KANEOHE BAY 2#	NOT AVBL							
HANA LEI#	1200	78				N/A	7/13	7/310
KAHULUI HARBOR	NOT AVBL							
HONOLULU HARBOR	NOT AVBL							
PEARL HARBOR#	1200	77				N/A	2/14	2/170
KILO NALU	NOT AVBL							
HILO HARBOR	NOT AVBL							
MOKUOLOE	NOT AVBL							
NAWILIWILI	NOT AVBL							
WHOTS BUOY	NOT AVBL							
BUOY 51028	NOT AVBL							

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5. Max/Min Temperature and Precipitation Table

a. 1230 UTC issuance

ASUS63 KDMX 171216
RTPDMX

Max/Min Temperature and Precipitation Table for Central Iowa
National Weather Service Des Moines IA
716 AM CDT Fri Apr 17 2020

.BR DMX 0417 C DH01/DC2004170714/TAIRZX/DH07/TAIRZP/PP/SF/SD

:
: Values represent highs yesterday...12-hour lows...
: and 24-hour precipitation ending at 7 AM Central Time

Location	Max Temp	Min Temp	Pcpn	Snow Depth
LWD : Lamoni ASOS	37 /	31 /	1.12 /	/
AMW : Ames ASOS	42 /	29 /	0.13 /	/
DSM : Des Moines ASOS	39 /	31 /	0.29 /	3.8 / 3
DMX : NWS Johnston*	40 /	30 /	0.19 /	4.2 / 4
MIW : Marshalltown ASOS	42 /	29 /	0.13 /	/
EST : Estherville ASOS	40 /	27 /	0.00 /	/
FOD : Fort Dodge AWOS	43 /	30 /	T /	/
MCW : Mason City ASOS	43 /	32 /	0.00 /	/
ALO : Waterloo ASOS	46 /	33 /	T /	T / 0
OTM : Ottumwa ASOS	40 /	31 /	0.08 /	/

:* Cooperative weather observation site

: Other Automated Locations

: ...North Central Iowa...

AXA : Algona AWOS	39 /	32 /	0.00 /	/
CAV : Clarion AWOS	41 /	30 /	0.00 /	/
FXV : Forest City AWOS	41 /	32 /	0.00 /	/
HPT : Hampton AWOS	43 /	32 /	0.00 /	/

: ...West Central Iowa...

ADU : Audubon AWOS	43 /	28 /	0.07 /	/
CIN : Carroll AWOS	41 /	27 /	0.04 /	/
DNS : Denison AWOS	41 /	28 /	0.02 /	/

: ...Central Iowa...

IKV : Ankeny AWOS	39 /	32 /	0.00 /	/
BNW : Boone AWOS	41 /	30 /	0.00 /	/
GGI : Grinnell AWOS	M /	M /	M /	/
IFA : Iowa Falls AWOS	45 /	30 /	0.00 /	/
TNU : Newton AWOS	41 /	32 /	0.04 /	/
PRO : Perry AWOS	40 /	29 /	0.01 /	/
NSSI4: Prairie City/NS NWR:	41 /	31 /	0.00 /	/
EBS : Webster City AWOS	43 /	30 /	0.00 /	/

: ...Southwestern Iowa...

```

AIO : Atlantic AWOS      : 37 / 28 / 0.14 /      /
:
: ...South Central Iowa...
TVK : Centerville AWOS   : 34 / 32 / 0.15 /      /
CNC : Chariton AWOS      : 36 / 32 / 0.07 /      /
CSQ : Creston AWOS       : 36 / 30 / 0.12 /      /
OXV : Knoxville AWOS    : 39 / 32 / 0.22 /      /
SSFI4: Lucas/Stephens SF : 37 / 31 / 0.04 /      /
I75 : Osceola AWOS      : 36 / 32 / 0.12 /      /
PEA : Pella AWOS        : 40 / 32 / 0.00 /      /
:
: ...Southeastern Iowa...
OOA : Oskaloosa AWOS    : 43 / 34 / 0.08 /      /
:
.END

```

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\$\$

b. 0030 UTC issuance (including treatment of missing or unreported data)

000

ASUS64 KBMX 140008

RTPBMX

```

: Temperature and Precipitation Table
: National Weather Service Birmingham AL
: 706 PM CDT Mon Apr 13 2020

```

```

:
: High Last 12 Hours. Low Last 18 Hours. Precip Last 24 Hours.
: Readings as of 04/13/00Z or 7PM Local.

```

.B BHM 0413 C DH18 /TX/TN/PP

```

:
: Station          ID      Hi   Lo   Pcpn
:
: ASOS Sites
:Anniston         :ANB   MM / MM /   MM
:Birmingham Intl :BHM   64 / 55 / 2.36
:Calera           :EET   65 / 56 / 0.51
:Montgomery       :MGM   78 / 61 / 1.91
:Troy             :TOI   82 / 64 /   MM
:Tuscaloosa       :TCL   63 / MM / 0.00
:
: AWOS Sites
:Alexander City   :ALX   70 / 58
:Auburn           :AUO   75 / 59
:Bessemer         :EKY   64 / 54
:Demopolis        :DYA   66 / 54
:Gadsden          :GAD   65 / 55
:Haleyville       :1M4   57 / 46
:Marion Vaiden Field:A08   68 / 56
:Pell City        :PLR   66 / 57
:Selma           :SEM   73 / 59
:Sylacauga        :SCD   69 / 54

```

```

:
: Climate and Forestry Stations
:Marion Junction      :MAJA1      70 / 56 / 0.58
:Mtn. Longleaf RAWS  :LGLA1      69 / 55 / 2.00
:Oakmulgee RAWS     :OKMA1      68 / 55 / 0.55
:Shoal Creek RAWS   :SHLA1      67 / 57 / 1.72
:Tuskegee RAWS      :TKGA1      77 / 60 / 1.53
:
.END

```

c. Locally required issuance (with elevation data)

```

ASUS66 KOTX 191830
RTPOTX
Max/Min Temperature and Precipitation Table for Eastern Washington and Northern
Idaho
National Weather Service Spokane, WA
1130 AM PDT Sun Apr 19 2020

```

High Temp Yesterday. 18 Hour Low Temperature up to 11 AM Sunday.
Precipitation and Snowfall past 24 hours up to 11 AM Sunday.

```

.BR OTX 0419 PS DH00/TAIRZX/DH10/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ
:
:ID      Station      Elev      Max      Min      24 HR      24 HR      Snow
:Temp    Temp    Pcpn      Snow      Depth
65S : Bonners Ferry AP  2337 :    50 / 32 /      /      /
S10 : Chelan Airport    1260 :    70 / 48 /      /      /
COE : Coeur d`Alene AP  2318 :    62 / 36 /      /      /
DEW : Deer Park         2117 :    63 / 29 / 0.00 /      /
EPH : Ephrata           1259 :    70 / 42 / 0.00 /      /
LWS : Lewiston          1436 :    70 / 44 / 0.00 /      /
S52 : Methow Valley AP  1706 :      /   /      /      /
MWH : Moses Lake         1181 :    72 / 41 / 0.00 /      /
MLP : Mullan Pass        6150 :    42 / 32 / 0.01 /      /
OMK : Omak              1301 :    71 / 42 / 0.00 /      /
PUW : Pullman           2551 :    61 / 40 / 0.00 /      /
SZT : Sandpoint Airport 2126 :    55 / 32 /      /      /
SFF : Spokane Felts     1953 :    66 / 38 / 0.00 /      /
GEG : Spokane Intl       2356 :    64 / 38 /   T /      /
EAT : Wenatchee AP      1255 :    68 / 46 / 0.00 /      /
.END

```

High Temperature, Low Temperature, Precipitation and Snowfall past 24 hours up to 11 AM Sunday.

NOTE: These locations report temperatures once every 24 hours. In some weather situations reported low temperatures may reflect conditions for the previous day.

```

.BR OTX 0419 PS DH10/TAIRZX/TAIRZN/PPDRZZ/SFDRZZ/SDIRZZ
:
:ID      Station      Elev      Obs      Max      Min      24 hr      Snow
:Time    TempTemp Pcpn      Snow      Depth
ASNW1: Asotin         3403 : DH0700/      /      / 0.00 /0.0 / 0
BONI1: Bonners Ferry  2075 : DH0620/ 53 / 33 / 0.09 / 0.0 / 0
BDDW1: Boundary Dam   1837 : DH0700/ 61 / 30 / 0.00 / 0.0 / 0
CLNW1: Chelan         1120 : DH0800/ 68 / 46 / 0.00 /      /
COWI1: Coeur d`Alene  2133 : DH0800/ 60 / 38 / 0.00 / 0.0 / 0
DVPW1: Davenport      2440 : DH0800/ 62 / 31 /   T / 0.0 / 0
HLDW1: Holden Village 3220 : DH0800/ 57 / 32 /   T / 0.0 / 40
LMGW1: LaCrosse McGrgr 1476 : DH0700/      /      /   T / 0.0 / 0

```

```

MZAW1: Mazama          2170 : DH1000/ 67 / 41 / 0.00 / 0.0 / 0
NAPI1: Naples          1998 : DH0720/ 50 / 28 / 0.08 / / /
NHPW1: Northport      1304 : DH0700/ 63 / 30 / 0.00 / 0.0 / 0
NEZI1: Nezperce       2135 : DH0700/ 62 / 38 / 0.00 / 0.0 / 0
OMAW1: Omak W.W.T.P.   840 : DH0800/ / / 0.00 / / /
PTLI1: Potlatch       2755 : DH0700/ 61 / 35 / 0.03 / 0.0 /
PRDI1: Prichard 3 ESE 2485 : DH0700/ 61 / 33 / 0.00 / / /
RSLW1: Rosalia        2400 : DH0730/ 66 / 37 / T / / /
STEW1: Stehekin       1270 : DH0800/ 69 / 46 / 0.00 / 0.0 / 0
TKTW1: Tonasket 11 NE 3434 : DH0800/ 59 / 36 / 0.00 / 0.0 / 0
WLDW1: Wilbur         2253 : DH0941/ 64 / 31 / 0.03 / 0.0 / 0
.END

```

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d. Locally required issuance (Dual Time Zone)

ASUS63 KBIS 201235
RTPBIS

Regional Temperature and Precipitation Summary
National Weather Service Bismarck ND
735 AM CDT Mon Apr 20 2020

```

:
:VALUES REPRESENT YESTERDAYS HIGHS...AND THIS MORNINGS LOWS
:THROUGH 7 AM CDT...AND PRECIPITATION FOR 24 HOURS ENDING AT
:7 AM CDT. ASOS SITES ARE AUTOMATED AND MAY UNDER-ESTIMATE
:WINTER PRECIP.
:
:.....
:      STATION          MAX / MIN / 24-HR / SNOW / SNOW
:      NAME            TEMP / TEMP / PRECIP / FALL / DEPTH
:.....
: CENTRAL TIME ZONE STATIONS
.BR BIS 0420 C DH01/TAIRZX/DH07/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ
BIS : Bismarck ASOS      : 58 / 38 / 0.00 / 0.0 / 0
JMS : Jamestown FAA     : 54 / 39 / 0.00 / M / M
MOT : Minot FAA         : 58 / 40 / 0.00 / M / M
XWA : Williston Basin Air: 57 / 36 / 0.00 / M / M
N60 : Garrison ASOS     : 55 / 36 / 0.00 / M / M
MIB : Minot Air Force Bas: 57 / 36 / 0.00 / M / M
.END
: MOUNTAIN TIME ZONE STATIONS
.BR BIS 0420 M DH00/TAIRZX/DH06/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ
DIK : Dickinson Theodore : 55 / 36 / 0.00 / M / M
HEI : Hettinger ASOS     : 55 / 28 / 0.00 / M / M
.END
:
:BR BIS 0420 C DH06/TX/TN/PP/SF/SD
:
: COOPERATIVE OBSERVATIONS
: VALUES ARE FOR THE PREVIOUS 24 HOURS
: CENTRAL TIME ZONE STATIONS
JTWN8: Jamestown Hosp   : 54 / 25 / 0.00 / 0.0 / 0
LFDN8: Lansford         : M / M / 0.00 / 0.0 / 0

```

```

WLWN8: Willow City      : 56 / 19 / 0.00 / M / M
.END
:
:BR BIS 0420 M DH06/TX/TN/PP/SF/SD
:
: MOUNTAIN TIME ZONE STATIONS
:BR BIS 0420 M DH06/TX/TN/PP/SF/SD
.END

```

e. Airport and Cooperative Observer Reports

Max/Min Temperature and Precipitation Table for
 Eastern IA/Northwestern IL/Northeastern MO
 National Weather Service Quad Cities IA/IL
 816 AM CDT Mon Apr 20 2020

Values represent highs yesterday...lows over the last 12 hours
 and 24-hour precipitation yesterday ending at 7 AM central time.

```

:BR DVN 0420 C DH01/TAIRZX/DH07/TAIRZP/PPDRZZ/SFDRZZ/SDIRZZ
:
:
:ID      Location      Max   Min   Pcpn   Snow   Snow
:         :              Temp  Temp  Temp   Fall  Depth
:
:ASOS Sites
BRL : Burlington Arpt   : 63 / 33 / 0.00 / M / M
CID : Cedar Rapids Arpt : 59 / 27 / 0.00 / M / M
DVN : Davenport Arpt    : 63 / 30 / 0.00 / 0.0 / 0
DBQ : Dubuque Arpt      : 57 / 27 / 0.00 / 0.0 / 0
IOW : Iowa City Arpt    : 63 / 32 / 0.00 / M / M
MLI : Quad City Arpt     : 64 / 30 / 0.00 / 0.0 / 0
:
:AWOS Sites--Data provided by NWS part ers
CWI : Clinton Arpt     : 60 / 31 / / /
FFL : Fairfield Arpt   : 61 / 32 / / /
FSW : Fort Madison Arpt : 63 / 37 / / /
FEP : Freeport Arpt    : 58 / 28 / / /
IIB : Independence Arpt : 59 / 26 / / /
EOK : Keokuk Arpt      : 63 / 36 / / /
MQB : Macomb Arpt      : 64 / 32 / / /
MXO : Monticello Arpt  : 59 / 27 / / /
MPZ : Mt Pleasant Arpt  : 63 / 34 / / /
MUT : Muscatine Arpt   : 63 / 34 / / /
SQI : Sterling Arpt    : 63 / 29 / / /
VTI : Vinton Arpt     : 61 / 31 / / /
AWG : Washington Arpt  : 63 / 32 / / /
.END

```

Cooperative Observations

Values are for the previous 24 hours

```

:BR DVN 0420 C DH07/TAIRZX/TAIRZN/PPDRZZ/SFDRZZ/SDIRZZ
:
:
:      Station      Obs   Max   Min   Snow   Snow
:ID     Name        Time  Temp  Temp  Pcpn   Fall  Depth
:
:Northeast Iowa...
:
DLDI4: Dubuque L&D11 : DH0600/ 57 / 34 / 0.00 / 0.0 / 0
SNYI4: Stanley      : DH0700/ 58 / 20 / 0.00 / 0.0 / 0

```

```

:
:East Central Iowa...
:
AMOI4: Anamosa 3SSW      : DH0600/  59 /  29 /  0.00 /  0.0 /  0
BLVI4: Bellevue L&D12   : DH0600/  58 /  30 /  0.00 /  0.0 /  0
DVNI4: Davenport NWS   : DH0700/   /   /  0.00 /  0.0 /  0
ICYI4: Iowa City       : DH0700/  62 /  29 /  0.00 /  0.0 /  0
MKTI4: Maquoketa       : DH0700/  59 /  29 /  0.00 /  0.0 /  0
MCLI4: Monticello      : DH0714/   /   /  0.00 /   /   /
MSTI4: Muscatine 2N    : DH0700/  60 /  35 /  0.00 /  0.0 /  0
VNTI4: Vinton          : DH0700/  57 /  26 /  0.00 /  0.0 /  0
WLBI4: Williamsburg    : DH0700/  59 /  28 /  0.00 /  0.0 /  0
:
:Southeast Iowa...
:
COJI4: Columbus Jct    : DH0700/   /   /  0.00 /  0.0 /  0
DNNI4: Donnellson     : DH0700/  64 /  37 /  0.00 /   /   /
EOKI4: Keokuk L&D19   : DH0600/  62 /  38 /  0.00 /  0.0 /  0
WSHI4: Washington     : DH0700/  63 /  30 /  0.00 /   /   /
:
:Northwest Illinois...
:
ALEI2: Aledo          : DH0700/  62 /  33 /  0.00 /  0.0 /  0
EZBI2: Elizabeth 5S   : DH0630/  59 /  27 /  0.00 /   /   /
FEEI2: Freeport       : DH0700/  60 /  29 /  0.00 /  0.0 /  0
ILNI2: Illinois City L&D16: DH0600/  62 /  36 /  0.00 /  0.0 /  0
KEWI2: Kewanee 1E    : DH0700/  61 /  29 /  0.00 /  0.0 /  0
MTCI2: Mount Carroll  : DH0730/  61 /  27 /  0.00 /  0.0 /  0
NBOI2: New Boston L&D17 : DH0600/  60 /  37 /  0.00 /   /   /
PTNI2: Princeton     : DH0700/  63 /  32 /  0.00 /  0.0 /  0
RCFI2: Rock Falls     : DH0700/   /   /  0.00 /  0.0 /  0
:
:Western Illinois...
:
AUGI2: Augusta        : DH0539/   /   /  0.00 /  0.0 /  0
GLDI2: Gladstone L&D18 : DH0600/  61 /  39 /  0.00 /  0.0 /  0
MQBI2: Macomb         : DH0700/   /   /  0.00 /   /   /
:
:Northeast Missouri...
:
MMPM7: Memphis        : DH0600/  63 /  36 /  0.00 /  0.0 /  0
.END

```

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