

***NATIONAL WEATHER SERVICE CENTRAL REGION SUPPLEMENT 06-2003
APPLICABLE TO NWSI 10-515
March 18, 2011***

***Operations and Services
Public Weather Services NWSPD 10-5
WFO Non-Precipitation Weather Products Specification NWSI 10-515
Central Region Non-Precipitation Weather Products Specification***

NOTICE: This publication is available at: <http://www.nws.noaa.gov/directives/>.

OPR: H. James Keeney, W/CR1x1

Certified by: Kim Runk, W/CR1

Type of Issuance: Routine

SUMMARY OF REVISIONS: This instruction supersedes NWS Central Region Supplement 06-2003 applicable to NWSI 10-515 dated October 17, 2008.

Section 4.3.A - Amended Central Region office groups for Excessive Heat Warning Criteria in Figure 1. Included that some offices have an additional Heat Health System for guidance in warning issuances.

Section 5.3.A - Amended Central Region office groups for Heat Advisory Criteria in Figure 2. Included that some offices have an additional Heat Health System for guidance in advisory issuances.

Section 5.3 E - Added Dense Fog/Freezing Fog issuance guidance.

Updated all examples in Appendix A.

Appendix A - Added Example 6 - Dense Fog Advisory with Frost Accretion.

(Signed by) March 4, 2011
Lynn P. Maximuk Date
Regional Director

WFO Non-Precipitation Weather Products Specification

Table of Contents:

1.	Introduction	1
2.	Non-Precipitation Storm Outlook (product category HWO).....	1
2.1	Issuance Guidelines.....	1
2.2	Issuance Criteria	1
3.	Non-Precipitation Watches (product category NPW).....	1
3.1.	Issuance Guidelines.....	1
4.	Non-Precipitation Weather Warnings (product category NPW).....	1
4.1	Issuance Guidelines.....	1
4.2	Issuance Criteria.....	1
4.3	Non-Precipitation Weather Warnings Products.....	1
5.	Non-Precipitation Weather Advisories (product category NPW).....	3
5.1	Issuance Guidelines	3
5.2	Issuance Criteria	3
5.3	Non-Precipitation Weather Advisory Products	3

APPENDICES

APPENDIX A – EXAMPLES	7
APPENDIX B – HEAT INDEX CHART.....	15

1. Introduction. This supplement describes regionally defined variations to [NWSI 10-515](#).
2. Non-Precipitation Outlook (product category HWO).
 - 2.1 Issuance Guidelines. In Central Region, the Hazardous Weather Outlook (product category HWO) is the product used to convey non-precipitation event potential.
 - 2.2 Issuance Criteria. Hazardous Weather Outlooks are described in the Central Region Supplement with [NWSI 10-517](#) (Multi-Purpose Weather Products Specification).
3. Non-Precipitation Watches (product category NPW).
 - 3.1 Issuance Guidelines. WFOs should issue a Non-Precipitation Watch when conditions are favorable (e.g., 50 % or greater chance) for a hazardous non-precipitation weather event to develop over part or all of the forecast area, but the occurrence is uncertain. If the forecaster is highly confident that the event will occur (e.g., greater than 80% confident), the forecaster should issue a warning as described in 5.2.2 of [NWSI 10-515](#).
4. Non-Precipitation Weather Warnings (product category NPW).
 - 4.1 Issuance Guidelines. See [NWSI 10-515](#)
 - 4.2 Issuance Criteria. In Central Region, supplemental advisory and warning criteria applicable to issuing non-precipitation weather warnings are defined as follows (i.e., 6.2.2.1 of [NWSI 10-515](#)).
 - 4.3 Non-Precipitation Warning Criteria.
 - A. Excessive Heat Warning – an Excessive Heat Warning (NPW) should be issued when conditions are observed or anticipated, and are expected to persist for at least a 48-hour period as seen in the graphic below.

Several CR offices have additional guidance available through Heat Health Warning System algorithms. This tool is separate from the guidance criteria established in this supplement. Blending all available guidance into a cohesive decision making process is left to local management.

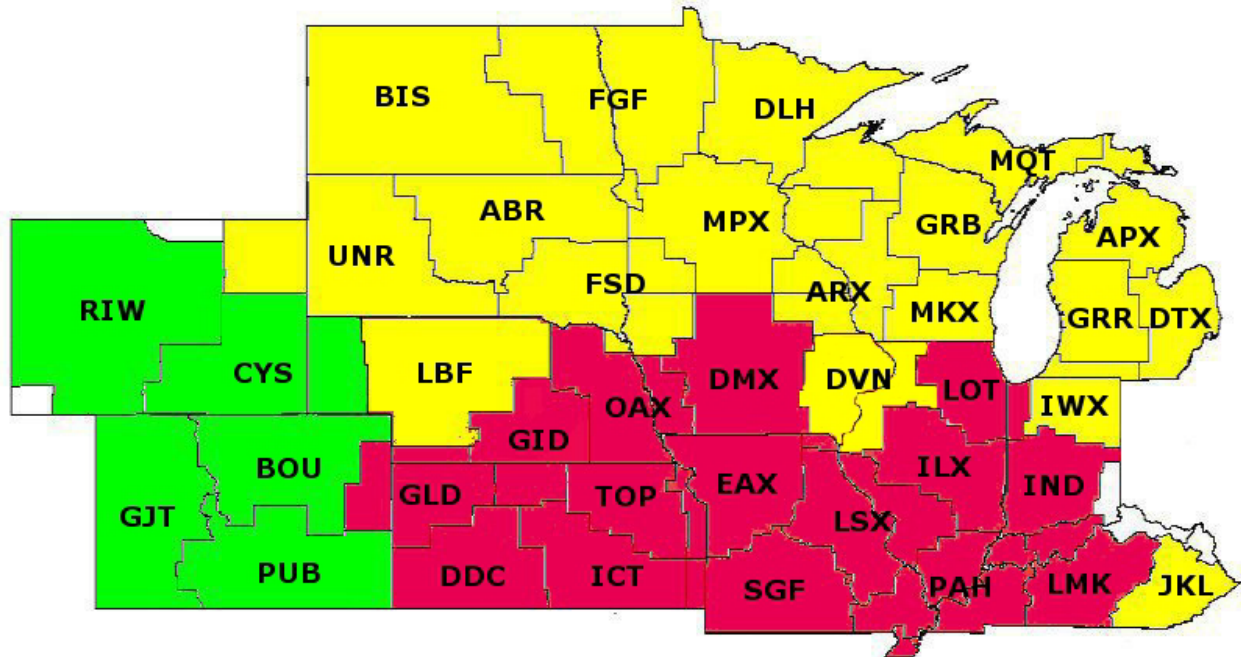


Fig. 1. Central Region office groups for Excessive Heat Warning Criteria

Central Region Excessive Heat Warning criteria:

- 1 North and Eastern (yellow shaded area)
 - Max Heat Index (HI) around 105 &
 - Min HI around 75 or higher
- 2 Central (red shaded area)
 - Max HI around 110 &
 - Min HI around 75 or higher
- 3 Western (green shaded area)*
 - High Plains/Front Range/Valleys
 - Max HI around 105 &
 - Min HI around 75 or higher
 - Mountains
 - Max HI around 100 &
 - Min HI around 75 or higher

* WFO Grand Junction does not issue Excessive Heat Warnings for their four Utah counties.

If Advisory criteria are expected for 4 or more consecutive days, WFOs should issue an Excessive Heat Warning.

The use of the word “around” conveys a range of +/- two degrees on either side of the base criteria to give WFO forecasters flexibility especially during marginal events. Base criteria may also be adjusted, typically in urban areas, to match agreements with health

care partners. Adjustments to base criteria should not be made for cities with less than 200,000 people.

B. Freeze Warning - The freeze/frost season is defined by the WFO Meteorologist in Charge or designee, based on input from partners in the agricultural and horticultural fields such as state extension services and/or state climatologists involved with agriculture. This determination should be made each season since the dates of potential frost/freezing impacts vary from year to year depending on antecedent conditions.

C. High Wind Warning - A High Wind Warning should be issued when the following conditions are observed or anticipated:

1. For all areas of Central Region except for the mountain areas of Colorado, Wyoming and eastern Utah:

- Sustained wind speeds of 40 mph or greater lasting for 1 hour or longer, or winds of 58 mph or greater for any duration.

2. For mountain areas in Colorado, eastern Utah and Wyoming serviced by WFO Cheyenne, WFO Grand Junction, WFO Riverton, WFO Pueblo and WFO Boulder:

- Sustained winds of 50 mph or greater lasting 1 hour or longer, or
- Winds of 75 mph or greater for any duration.

5. Non-Precipitation Weather Advisories (product category NPW).

5.1 Issuance Guidelines. See [NWSI 10-515](#)

5.2 Issuance Criteria. In Central Region, supplemental advisory criteria applicable to issuing non-precipitation weather advisories are defined as follows (i.e., 7.2.2.1 of [NWSI 10-515](#)).

5.3 Non-Precipitation Weather Advisory Products.

A. Heat Advisory – a Heat Advisory should be issued when conditions are observed or anticipated as seen in the graphic below.

Several CR offices have additional guidance available through Heat Health Warning System algorithms. This tool is separate from the guidance criteria established in this supplement. Blending all available guidance into a cohesive decision making process is left to local management.

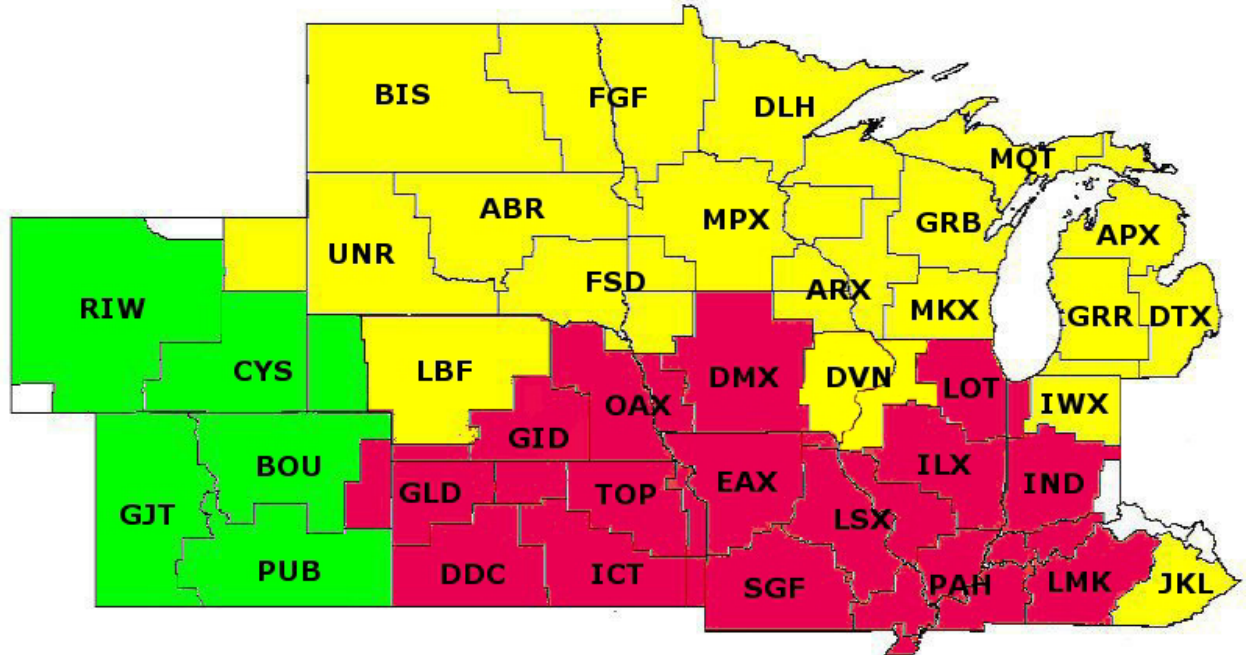


Fig. 2. Central Region office groups for Heat Advisory Criteria

Central Region Heat Advisory criteria:

- 1 Northern and Eastern (yellow shaded area)
 - Max HI around 100 or higher
- 2 Central (red shaded area)
 - Max HI around 105 or higher
- 3 Western (green shaded area)*
 - Plains/Front Range/Valleys
 - Max HI around 100 or higher & Min HI around 75 or higher
 - Mountains
 - Max HI around 95 or higher & Min HI around 75 or higher

* WFO Grand Junction will issue a Heat Advisory for their four Utah counties when the Max HI is ≥ 105 and the overnight temperature is ≥ 80 for at least two consecutive days.

If Advisory criteria are expected for 4 consecutive days or more, WFOs should issue an Excessive Heat Warning.

Longer durations of heat conditions just under advisory criteria can also pose a risk to the public. WFOs should collaborate with their neighbors and consider issuing a heat advisory to cover these conditions if they are expected to last for 4 consecutive days or more. These conditions are:

- 1 Northern and Eastern (yellow shaded area)
 - Max HI 95 to 100 for 4 or more consecutive days
- 2 Central (red shaded area)
 - Max HI 100 to 105 degrees for 4 or more consecutive days
- 3 Western (green shaded area)*
 - Plains/Front Range/Valleys
 - Max HI 95 to 100 or higher & Min HI around 75 or higher for 4 or more consecutive days
 - Mountains
 - Max HI 90 to 95 or higher & Min HI around 75 or higher for 4 or more consecutive days

The use of the word “around” conveys a range of +/- two degrees on either side of the base criteria to give WFO forecasters flexibility especially during marginal events. Base criteria may also be adjusted, typically in urban areas, to match agreements with health care partners. Adjustments to base criteria should not be made for cities with less than 200,000 people.

B. Frost Advisory - The freeze/frost season is defined by the WFO Meteorologist in Charge or designee, based on input from partners in the agricultural and horticultural fields such as state extension services and/or state climatologists involved with agriculture. This determination should be made each season since the dates of potential frost/freeze impacts vary from year to year depending on antecedent conditions.

C. Wind Advisory - a Wind Advisory should be issued when the following conditions are observed or anticipated:

1. For all areas of Central Region outside the locations noted in 5.3.C.2 and 5.3.C.3:
 - Sustained wind speeds of 30 to 39 mph lasting for 1 hour or longer, or winds of 45 mph to 57 mph for any duration.
2. For mountain areas in western Colorado and eastern Utah serviced by WFO Grand Junction:
 - Sustained winds of 40 to 49 mph lasting for 1 hour or longer, or winds of 58 to 74 mph for any duration.
3. For areas of Colorado other than the plains of northeast Colorado serviced by WFO Goodland and the valley areas of western Colorado serviced by WFO Grand Junction; all of Wyoming and the Black Hills of South Dakota:
 - Wind advisories are not issued for these areas.

- D. Lake Wind Advisory - Lake Wind Advisory threshold criteria may be lowered to 20 mph over water, as designated by the MIC and approved by the Chief, Integrated Services, W/CR1.
- E. Dense Fog/Freezing Fog Issuance – On occasion the occurrence of fog coincident with sub-freezing temperatures results in difficult collaboration issues, as well as being a potential source of confusion to the public. The directive does mention criteria for both these events, but does not link the two advisory products directly and the freezing fog definition leaves room for interpretation.

What is most important is consistent, collaborated information which conveys impact and provides the best service possible to meet the needs of our users as opposed to relying solely on specific criteria. Therefore, to aid in the forecasters decision making process, Central Region offices will use the following chart for clarity:

	Air Temperature > 32F	Air Temperature <= 32F
If Dense Fog is present or forecast	Issue Dense Fog Advisory. There will be no freezing.	What is the primary hazard? In most cases, it's probably safe to assume it is the dense fog and limited visibility for travel. If so, suggest using Dense Fog Advisory . Note the freezing and possible slippery conditions in the text of the product. Could also cover the freezing issue in an SPS.
If Dense Fog is not present or forecast	No advisory needed. May choose to do an SPS for any existing fog, as appropriate.	Cover the situation with an SPS or issue a Freezing Fog Advisory, as deemed appropriate given the conditions.

APPENDIX A - EXAMPLES

Table of Contents: Page

APPENDIX A - EXAMPLES

1.	Introduction	7
2.	Example 1 - Non-Precipitation Watch.....	8
3.	Example 2 - Non Precipitation Freeze Warning.....	10
4.	Example 3 - Non Precipitation Heat Warning.....	11
5.	Example 4 - Non Precipitation Wind Advisory.....	12
6.	Example 5 - Non Precipitation Dense Fog Advisory.....	13
7.	Example 6 – Non Precipitation Freezing Fog Advisory.....	14

1. Introduction. The following are examples of a non-precipitation watch, warning, and advisory.

2. Example 1 - Non-Precipitation Watch – INITIAL WATCH ISSUANCE.

WWUS75 KCYS 022018
NPWCYS

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE CHEYENNE WY
218 PM MDT FRI APR 2 2010

...STRONG WINDS POSSIBLE ACROSS PORTIONS OF SOUTHEAST WYOMING
STARTING LATE TONIGHT THROUGH SATURDAY MORNING...

.A PACIFIC COLD FRONT IS EXPECTED TO PUSH ACROSS SOUTHEAST
WYOMING ON SATURDAY. A COMBINATION OF AN INCREASING SURFACE
PRESSURE GRADIENT AND STRONG WINDS ALOFT WILL RESULT IN THE
POTENTIAL FOR VERY STRONG WEST TO SOUTHWEST WINDS ACROSS THE
AREA LATE TONIGHT AND THROUGH SATURDAY.

WYZ103>105-109>116-030430-
/O.NEW.KCYS.HW.A.0002.100403T1200Z-100404T0000Z/
NORTH LARAMIE RANGE-FERRIS/SEMINOE/SHIRLEY MOUNTAINS-
SHIRLEY BASIN-CENTRAL CARBON COUNTY-NORTH SNOWY RANGE FOOTHILLS-
SOUTHWEST CARBON COUNTY-SIERRA MADRE RANGE-
UPPER NORTH PLATTE RIVER BASIN-SNOWY RANGE-LARAMIE VALLEY-
SOUTH LARAMIE RANGE-
INCLUDING THE CITIES OF...MUDDY GAP...MEDICINE BOW...RAWLINS...
SINCLAIR...HANNA...ARLINGTON...ELK MOUNTAIN...BAGGS...DIXON...
SARATOGA...ENCAMPMENT...RIVERSIDE...CENTENNIAL...ALBANY...
WOODS LANDING...LARAMIE...VEDAUWOO...BUFORD...PUMPKIN VINE
218 PM MDT FRI APR 2 2010

...HIGH WIND WATCH IN EFFECT FROM SATURDAY MORNING THROUGH
SATURDAY AFTERNOON...

THE NATIONAL WEATHER SERVICE IN CHEYENNE HAS ISSUED A HIGH WIND
WATCH...WHICH IS IN EFFECT FROM SATURDAY MORNING THROUGH SATURDAY
AFTERNOON.

- * TIMING...WEST TO SOUTHWEST WINDS BETWEEN 15 TO 30 MPH THIS
EVENING WILL RAPIDLY INCREASE AFTER MIDNIGHT TONIGHT WITH
SUSTAINED WINDS BETWEEN 30 TO 40 MPH BY EARLY SATURDAY MORNING.
- * WINDS...SOUTHWEST WINDS OF 30 TO 45 MPH WITH GUSTS OVER 60 MPH
ARE POSSIBLE. WINDS ARE EXPECTED TO GRADUALLY SHIFT INTO WEST
DURING THE AFTERNOON.
- * IMPACTS...TRAVELERS ALONG PORTIONS OF INTERSTATE 80 ALONG WITH
HIGHWAY 287 WILL EXPERIENCE DANGEROUS CROSS WINDS STARTING LATE
TONIGHT AND CONTINUING THROUGH SATURDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS HIGH WIND EVENT. SUSTAINED WINDS OF AT LEAST 40 MPH...OR GUSTS OF 58 MPH OR STRONGER MAY OCCUR. CONTINUE TO MONITOR THE LATEST FORECASTS.

&&

\$\$

WYZ101-102-106>108-117>119-030430-
/O.NEW.KCYS.HW.A.0002.100403T1700Z-100404T0200Z/
CONVERSE COUNTY LOWER ELEVATIONS-NIOBRARA COUNTY-
CENTRAL LARAMIE RANGE AND SOUTHWEST PLATTE COUNTY-
EAST PLATTE COUNTY-GOSHEN COUNTY-SOUTH LARAMIE RANGE FOOTHILLS-
CENTRAL LARAMIE COUNTY-EAST LARAMIE COUNTY-
INCLUDING THE CITIES OF...DOUGLAS...GLENROCK...LUSK...BORDEAUX...
GLENDO...WHEATLAND...CHUGWATER...GUERNSEY...TORRINGTON...
HORSE CREEK...HARRIMAN...WHITAKER...CHEYENNE...BURNS...
CARPENTER...ALBIN...PINE BLUFFS
218 PM MDT FRI APR 2 2010

...HIGH WIND WATCH IN EFFECT FROM SATURDAY MORNING THROUGH SATURDAY EVENING...

THE NATIONAL WEATHER SERVICE IN CHEYENNE HAS ISSUED A HIGH WIND WATCH...WHICH IS IN EFFECT FROM SATURDAY MORNING THROUGH SATURDAY EVENING.

- * TIMING...WEST TO SOUTHWEST WINDS BETWEEN 15 TO 25 MPH TONIGHT WILL RAPIDLY INCREASE SATURDAY MORNING WITH SUSTAINED WINDS BETWEEN 30 TO 40 MPH BY NOON SATURDAY.
- * WINDS...WEST WINDS OF 30 TO 45 MPH WITH GUSTS OVER 60 MPH ARE POSSIBLE. WINDS ARE EXPECTED TO GRADUALLY SHIFT TO THE NORTHWEST LATE SATURDAY AFTERNOON.
- * IMPACTS...TRAVELERS ALONG INTERSTATE 25...PORTIONS OF INTERSTATE 80...AND HIGHWAYS 26 AND 85...WILL EXPERIENCE DANGEROUS CROSS WINDS STARTING EARLY SATURDAY MORNING AND CONTINUING THROUGH THE DAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS HIGH WIND EVENT. SUSTAINED WINDS OF AT LEAST 40 MPH...OR GUSTS OF 58 MPH OR STRONGER MAY OCCUR. CONTINUE TO MONITOR THE LATEST FORECASTS.

&&

\$\$

3. Example 2 - Non Precipitation Freeze Warning. – INITIAL ISSUANCE

WWUS75 KGJT 102131
NPWGJT

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE GRAND JUNCTION CO
331 PM MDT FRI SEP 10 2010

COZ008-021>023-110600-
/O.NEW.KGJT.FZ.W.0008.100911T0600Z-100911T1500Z/
CENTRAL COLORADO RIVER BASIN-FOUR CORNERS/UPPER DOLORES RIVER-
ANIMAS RIVER BASIN-SAN JUAN RIVER BASIN-
INCLUDING THE CITIES OF...GLENWOOD SPRINGS...EAGLE...CARBONDALE...
CORTEZ...DOVE CREEK...MANCOS...DURANGO...BAYFIELD...IGNACIO...
PAGOSA SPRINGS AND VICINITY
331 PM MDT FRI SEP 10 2010

...FREEZE WARNING IN EFFECT FROM MIDNIGHT TONIGHT TO 9 AM MDT
SATURDAY...

THE NATIONAL WEATHER SERVICE IN GRAND JUNCTION HAS ISSUED A
FREEZE WARNING...WHICH IS IN EFFECT FROM MIDNIGHT TONIGHT TO 9 AM
MDT SATURDAY.

- * TIMING...AN INFLUX OF COLDER AIR COMBINED WITH CLEAR SKIES AND
LIGHT WINDS IS EXPECTED TO RESULT IN FREEZING TEMPERATURES
ACROSS THE AREA AFTER MIDNIGHT. NEAR FREEZING TEMPERATURES WILL
PERSIST UNTIL SHORTLY AFTER SUNRISE.
- * TEMPERATURES...LOW TEMPERATURES WILL DIP TO NEAR 30 DEGREES
OVERNIGHT. A KILLING FREEZE...WHERE TEMPERATURES DROP BELOW 28
DEGREES FOR SEVERAL HOURS...IS UNLIKELY.
- * IMPACTS...DELICATE PLANTS MAY BE HARMED BY SUB-FREEZING TEMPERATURES.
IN ADDITION...OUTDOOR WATER PIPES...LIKE THOSE FOR EVAPORATIVE
COOLERS AND IRRIGATION SYSTEMS...MAY FREEZE RESULTING IN BREAKS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A FREEZE WARNING MEANS SUB-FREEZING TEMPERATURES ARE IMMINENT OR
HIGHLY LIKELY. THESE CONDITIONS WILL KILL CROPS AND OTHER
SENSITIVE VEGETATION.

&&

\$\$

4. Example 3 - Non Precipitation Heat Warning. - CONTINUATION

WWUS73 KLOT 130153
NPWLOT

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE CHICAGO IL
853 PM CDT THU AUG 12 2010

...DANGEROUS HEAT AND HUMIDITY...

.A PROLONGED PERIOD OF OPPRESSIVE HEAT AND HUMIDITY WILL CONTINUE
TO PRODUCE DANGEROUS CONDITIONS AND HIGH HEAT INDEX VALUES
THROUGH FRIDAY.

ILZ014-032-033-039-INZ019-131000-
/O.CON.KLOT.EH.W.0001.000000T0000Z-100814T0000Z/
COOK-LIVINGSTON-IROQUOIS-FORD-BENTON-
INCLUDING THE CITIES OF...CHICAGO...PONTIAC...WATSEKA...PAXTON...
FOWLER
853 PM CDT THU AUG 12 2010 /953 PM EDT THU AUG 12 2010/

...EXCESSIVE HEAT WARNING REMAINS IN EFFECT UNTIL 7 PM CDT /8 PM
EDT/ FRIDAY...

AN EXCESSIVE HEAT WARNING REMAINS IN EFFECT UNTIL 7 PM CDT /8 PM
EDT/ FRIDAY.

* TEMPS/HEAT INDEX...AFTERNOON TEMPERATURES IN THE LOWER 90S WITH
HEAT INDEX VALUES AT OR ABOVE 100 DEGREES AGAIN FRIDAY.
NIGHTTIME TEMPERATURES IN THE MID TO UPPER 70S WITH MINIMUM HEAT
INDEX VALUES IN THE UPPER 70S WHICH WILL PROVIDE LITTLE RELIEF
FROM THE OPPRESSIVE CONDITIONS.

* IMPACTS...THE LIKELIHOOD OF HEAT RELATED ILLNESSES WILL
INCREASE EACH DAY...DUE TO THE CUMULATIVE EFFECTS OF THE HEAT
AND HUMIDITY. THE HEAT IS PARTICULARLY DANGEROUS FOR
CHILDREN... THE ELDERLY...OR THOSE WITH MEDICAL CONDITIONS.
LEAVING A CHILD OR PET IN AN ENCLOSED VEHICLE...EVEN FOR A
SHORT TIME... CAN BE DEADLY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

AN EXCESSIVE HEAT WARNING MEANS THAT A PROLONGED PERIOD OF
DANGEROUSLY HOT WEATHER WILL OCCUR. THE COMBINATION OF HIGH
TEMPERATURES AND HIGH HUMIDITY WILL COMBINE TO CREATE A DANGEROUS
SITUATION IN WHICH HEAT ILLNESSES ARE LIKELY. DRINK PLENTY OF
FLUIDS...STAY IN AN AIR-CONDITIONED ROOM...STAY OUT OF THE SUN...
AND CHECK UP ON RELATIVES AND NEIGHBORS.

PEOPLE IN THE CITY OF CHICAGO CAN CALL 311 FOR ASSISTANCE AND
INFORMATION ON COOLING CENTERS.

&&

\$\$

5. Example 4 - Non Precipitation Wind Advisory - INITIAL ADVISORY.

WWUS73 KICT 052146
NPWICT

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE WICHITA KS
346 PM CST FRI MAR 5 2010

KSZ032-047-060100-
/O.NEW.KICT.WI.Y.0004.100305T2146Z-100306T0100Z/
RUSSELL-BARTON-
INCLUDING THE CITIES OF...RUSSELL...GREAT BEND
346 PM CST FRI MAR 5 2010

...WIND ADVISORY IN EFFECT UNTIL 7 PM CST THIS EVENING...

THE NATIONAL WEATHER SERVICE IN WICHITA HAS ISSUED A WIND
ADVISORY...WHICH IS IN EFFECT UNTIL 7 PM CST THIS EVENING.

* TIMING...STRONG SOUTH TO SOUTHEAST WINDS WILL AFFECT RUSSELL AND
BARTON COUNTIES INTO THIS EVENING.

* WINDS...WILL BE OUT OF THE SOUTH AT 25 TO 35 MPH WITH A FEW
GUSTS TO 45 MPH.

* IMPACTS...WILL INCLUDE HAZARDS TO BROAD SIDED VEHICLES ON EAST
WEST ORIENTED ROADS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WINDS OF AT LEAST 30 MPH
AND/OR WIND GUSTS OVER 45 MPH ARE EXPECTED. WINDS THIS STRONG
CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE
VEHICLES. USE EXTRA CAUTION.

&&

\$\$

6. Example 5 - Non Precipitation Dense Fog Advisory - UPDATE.

WWUS73 KMKX 232305
NPWMKX

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN WI
505 PM CST SAT JAN 23 2010

...AREAS OF DENSE FOG ACROSS SOUTHERN WISCONSIN TONIGHT...

.ABUNDANT LOW LEVEL MOISTURE FLOWING NORTHWARD AHEAD OF LOW
PRESSURE IN THE PLAINS...OVER THE WIDESPREAD SNOW COVER ACROSS
SOUTHERN WISCONSIN...WILL RESULT IN WIDESPREAD FOG AND AREAS OF
DENSE FOG TONIGHT. THE DENSE FOG WILL REDUCE THE VISIBILITY TO ONE
QUARTER MILE OR LESS.

THE LOW PRESSURE SYSTEM WILL BRING RAIN TO THE ENTIRE AREA THROUGH
THE NIGHT INTO SUNDAY MORNING. THE RAIN WILL THIN THE DENSE FOG...
LEADING TO SOME IMPROVEMENT IN VISIBILITY.

WIZ062-063-067-068-240400-
/O.CON.KMKX.FG.Y.0001.000000T0000Z-100124T0400Z/
IOWA-DANE-LAFAYETTE-GREEN-
INCLUDING THE CITIES OF...DODGEVILLE...MADISON...DARLINGTON...
MONROE
505 PM CST SAT JAN 23 2010

...DENSE FOG ADVISORY REMAINS IN EFFECT UNTIL 10 PM CST THIS
EVENING...

A DENSE FOG ADVISORY REMAINS IN EFFECT UNTIL 10 PM CST THIS
EVENING.

* TIMING...AREAS OF DENSE FOG THIS EVENING.

* VISIBILITY...ONE QUARTER MILE OR LESS.

* IMPACTS...REDUCED VISIBILITY WILL MAKE FOR DIFFICULT TRAVEL.
TEMPERATURES WILL REMAIN ABOVE FREEZING.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A DENSE FOG ADVISORY MEANS VISIBILITIES WILL FREQUENTLY BE
REDUCED TO LESS THAN ONE QUARTER MILE. IF DRIVING...SLOW DOWN...
USE YOUR HEADLIGHTS...AND LEAVE PLENTY OF DISTANCE AHEAD OF YOU.

&&

\$\$

7. Example 6 - Non Precipitation Freezing Fog Advisory – INITIAL ISSUANCE

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE INDIANAPOLIS IN
230 AM EST TUE JAN 19 2010

INZ021-028>031-035>049-051>057-060>065-067>072-191500-
/O.NEW.KIND.ZF.Y.0003.100119T0730Z-100119T1500Z/
CARROLL-WARREN-TIPPECANOE-CLINTON-HOWARD-FOUNTAIN-MONTGOMERY-
BOONE-TIPTON-HAMILTON-MADISON-DELAWARE-RANDOLPH-VERMILLION-PARKE-
PUTNAM-HENDRICKS-MARION-HANCOCK-HENRY-VIGO-CLAY-OWEN-MORGAN-
JOHNSON-SHELBY-RUSH-SULLIVAN-GREENE-MONROE-BROWN-BARTHOLOMEW-
DECATUR-KNOX-DAVISS-MARTIN-LAWRENCE-JACKSON-JENNINGS-
INCLUDING THE CITIES OF...LAFAYETTE...FRANKFORT...KOKOMO...
CRAWFORDSVILLE...ANDERSON...MUNCIE...INDIANAPOLIS...TERRE HAUTE...
SHELBYVILLE...BLOOMINGTON...COLUMBUS...VINCENNES...BEDFORD...
SEYMOUR
230 AM EST TUE JAN 19 2010

...FREEZING FOG ADVISORY IN EFFECT UNTIL 10 AM EST THIS MORNING...

THE NATIONAL WEATHER SERVICE IN INDIANAPOLIS HAS ISSUED A
FREEZING FOG ADVISORY...WHICH IS IN EFFECT UNTIL 10 AM EST THIS
MORNING.

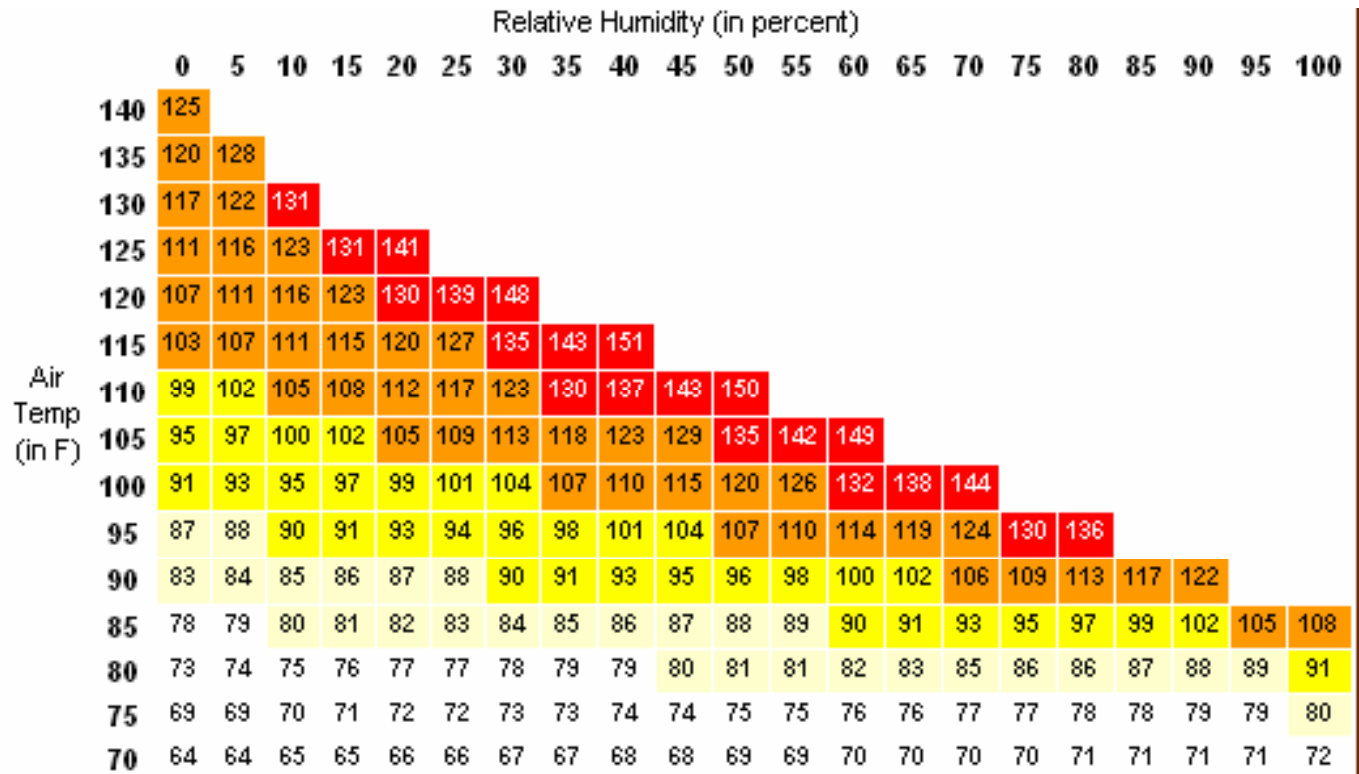
- * TIMING...AREAS OF FREEZING FOG WILL CONTINUE INTO THE MID
MORNING HOURS.
- * IMPACTS...UNTREATED SURFACES MAY DEVELOP A THIN LAYER OF ICE.
RAPID CHANGES IN VISIBILITY ARE POSSIBLE.
- * VISIBILITY...VISIBILITIES WILL BE AS LOW AS ONE MILE.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A FREEZING FOG ADVISORY MEANS VISIBILITIES WILL FREQUENTLY BE
REDUCED. IF DRIVING...SLOW DOWN...USE YOUR LOW BEAM HEADLIGHTS
AND LEAVE PLENTY OF DISTANCE AHEAD OF YOU. ALSO...BE ALERT FOR
FROST ON BRIDGE DECKS CAUSING SLIPPERY ROADS.

&&

APPENDIX B – HEAT INDEX CHART



Heat Index	General Effect of Heat Index on People in Higher Risk Groups
80 to 89° - Very Warm	Fatigue possible with prolonged exposure and/or physical activity.
90 to 104° - Hot	Sunstroke, heat cramps and heat exhaustion possible with prolonged exposure and/or physical activity.
105 to 129° - Very Hot	Sunstroke, heat cramps or heat exhaustion likely, and heatstroke possible with prolonged exposure and/or physical activity.
130° or higher - Extremely Hot	Heat/sunstroke highly likely with continued exposure.