

Experimental Bulleted Winter Storm (WSW), Non-Precipitation (NPW), and Fire Weather (RFW) Statements Product Description Document (National - optional)

Part I – Mission Connection

a. Product Description –

During winter storm and non-precipitation events affecting multiple forecast zones, WSW and NPW statements become very long and time consuming for forecasters to produce. The length of the product can make it difficult for users to quickly scan multiple forecast zones for vital storm information.

In 2008, the GFE focal point at WFO Reno modified the baseline WSW and NPW formatters to produce an experimental bullet formatted product with a format similar to severe thunderstorm and flash flood warnings. This format is easier for users to read and quickly gather vital watch, warning and advisory information and was used by WFO Reno during 2008/2009 winter season. During the 2009/2010 winter season, testing of the bullet formatted WSW/NPW began in Western and Central Region WFOs plus selected offices in other regions.

This is a modification to the Previous Bullet Formatted Winter Weather, Non Precipitation PDD to include Fire Weather Watches and Red Flag Warnings (RFW). Testing the bulleted RFW will be limited to those WFOs that have coordinated with their local and regional fire agencies. The testing offices may change throughout the spring, summer and fall fire season as fire agencies educate their local customers and request the format change. The bullet formatted products are easier for users to read and quickly gather vital watch, warning and advisory information during hazardous weather events.

Participating offices can be found at the end of this document.

b. Purpose – To produce WSW, NPW and RFW statements that are easy to read and contain the most important storm and impact information during hazardous winter, non-precipitation and fire weather events.

c. Audience – Emergency and Wildland Managers, Media, Department of Transportation and the general public.

d. Presentation Format – Text based.

e. Feedback Method – Comments from customers in the WFO Reno county warning area were all favorable during the initial 2008/2009 winter testing and comments continued to be favorable during the 2009/10 winter season. TV meteorologists in particular commented that the bulleted format was much easier to gather information for their broadcasts.

The original feedback period from December 8, 2009 to May 29, 2010 is extended to October 29, 2010 to include the fire weather season in most areas which will begin effective May 12, 2010.

Technical and policy questions and comments on the bulleted WSW, NPW and RFW statements may be addressed to:

National Weather Service
Fire and Public Weather Services branch W/OS22
Attn: Paul Stokols
1325 East West Highway
Silver Spring MD 20910
301-713-1867 ext139
Paul.stokols@noaa.gov

A web survey link can also be found at:

<http://www.weather.gov/survey/nws-survey.php?code=wswnpw>

f. Examples –

Sample WSW:

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URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
947 AM PDT WED AUG 26 2009

...|*OVERVIEW HEADLINE (MUST EDIT)*|...

.|*OVERVIEW (MUST EDIT)*|.

CAZ071-270100-
/O.NEW.KREV.WW.Y.0002.090826T1900Z-090827T1800Z/
LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-
INCLUDING THE CITY OF...SUSANVILLE
947 AM PDT WED AUG 26 2009

...WINTER WEATHER ADVISORY IN EFFECT UNTIL 11 AM PDT THURSDAY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A WINTER WEATHER
ADVISORY FOR |* SNOW *|...WHICH IS IN EFFECT UNTIL 11 AM PDT
THURSDAY.

|*
* TIMING BULLET
* TOTAL SNOW ACCUMULATIONS:
* WINDS:
* SNOW LEVELS:
* IMPACTS:
* |

PRECAUTIONARY/PREPAREDNESS ACTIONS...

SNOW IS EXPECTED TO POSE AN INCONVENIENCE TO TRAVELERS. ROADS
WILL BECOME SLICK AND HAZARDOUS...WITH SNOW AND ICE FIRST
DEVELOPING ON BRIDGES AND OVERPASSES. MOTORISTS SHOULD SLOW DOWN
AND USE CAUTION. CHECK OUR WEBSITE AT WEATHER.GOV/RENO OR LISTEN
TO NOAA WEATHER RADIO FOR UPDATES ON THIS SITUATION.

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URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
1125 AM PDT FRI OCT 3 2008

...EARLY SEASON STORM TO BRING STRONG WINDS AND HIGH ELEVATION
SNOWFALL...

.A STRONG PACIFIC STORM SYSTEM WILL PUSH ACROSS NORTHERN AND
CENTRAL CALIFORNIA TONIGHT AND SATURDAY. WINDS WILL INCREASE THIS
AFTERNOON AHEAD OF THE SYSTEM AND BECOME STRONGER OVERNIGHT. RAIN
WILL MOVE INTO THE SIERRA THIS EVENING WITH SNOW ON THE HIGHEST
MOUNTAIN PEAKS. SNOW LEVELS WILL FALL SATURDAY MORNING WITH A
PERIOD OF HEAVY SNOWFALL AT THE HIGHER ELEVATIONS.

CAZ073-041200-
/O.UPG.KREV.WS.A.0011.081004T0600Z-081005T0600Z/
/O.NEW.KREV.WS.W.0007.081004T0600Z-081005T0000Z/
MONO-
INCLUDING THE CITIES OF...BRIDGEPORT...COLEVILLE...LEE VINING...
MAMMOTH LAKES
1125 AM PDT FRI OCT 3 2008

...WINTER STORM WARNING IN EFFECT FROM 11 PM THIS EVENING TO 5 PM
PDT SATURDAY FOR AREAS ABOVE 8000 FEET...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A WINTER STORM
WARNING...WHICH IS IN EFFECT FROM 11 PM THIS EVENING TO 5 PM PDT
SATURDAY. THE WINTER STORM WATCH IS NO LONGER IN EFFECT.

- * TOTAL SNOW ACCUMULATIONS ABOVE 9000 FEET OF 6 TO 12 INCHES...WITH
4 TO 6 INCHES BETWEEN 8000 FEET AND 9000 FEET.
- * SOUTHWEST WINDS WILL INCREASE TO 20 TO 40 MPH WITH GUSTS TO 60
MPH. GUSTS TO 90 MPH ARE POSSIBLE OVER THE SIERRA RIDGES.
- * SNOW LEVELS WILL START NEAR 10000 FEET TONIGHT AND DROP TO AROUND
8000 FEET BY LATE SATURDAY AFTERNOON.
- * IMPACTS: SIGNIFICANT SNOW ACCUMULATIONS AND STRONG WINDS WILL CREATE
DANGEROUS CONDITIONS FOR BACK COUNTRY ACTIVITIES IN THE HIGH SIERRA.

PREPAREDNESS/PRECAUTIONARY ACTIONS...

ALL BACKCOUNTRY ACTIVITIES SHOULD BE SUSPENDED BY THIS AFTERNOON AS
CONDITIONS WILL QUICKLY DETEORATE THIS EVENING AS A WINTER STORM MOVES
INTO THE HIGH SIERRA. HEAVY SNOW...HIGH WINDS AND COLD TEMPERATURES
WILL PRODUCE VERY DANGEROUS CONDITONS FOR THOSE IN THE BACKCOUNTRY.

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Sample NPW:

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
1005 AM PDT WED AUG 26 2009

...|*OVERVIEW HEADLINE (MUST EDIT)*|...

.|*OVERVIEW (MUST EDIT)*|.

NVZ003-270115-
/O.NEW.KREV.HW.A.0001.090827T1400Z-090828T0300Z/
GREATER RENO-CARSON CITY-MINDEN AREA-
INCLUDING THE CITY OF...SPARKS
1005 AM PDT WED AUG 26 2009

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

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

|*

* TIMING BULLET

* WINDS:

* IMPACTS:

*|

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A HIGH WIND WATCH MEANS THERE IS POTENTIAL FOR STRONG DAMAGING
WINDS TO AFFECT THE AREA. CONTINUE TO MONITOR THE LATEST
FORECASTS AT WEATHER.GOV/RENO.

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[HTTP://WEATHER.GOV/RENO](http://weather.gov/reno)

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
256 PM PST WED JAN 2 2008

...STRONG WINDS ACROSS WESTERN NEVADA ON FRIDAY...

.WINDS WILL INCREASE ON THURSDAY WITH BREEZY CONDITIONS THROUGH THURSDAY NIGHT. A STRONG PACIFIC JET STREAM WILL MOVE INTO THE AREA FRIDAY MORNING BRINGING STRONGER AND POTENTIALLY DAMAGING WINDS TO WESTERN NEVADA. THE WINDS WILL DECREASE FRIDAY EVENING AS HEAVIER PRECIPITATION MOVES INTO THE AREA.

NVZ001-003-031300-
/O.UPG.KREV.HW.A.0001.080104T1200Z-080105T0200Z/
/O.NEW.KREV.HW.W.0001.080104T1200Z-080105T0200Z/
MINERAL AND SOUTHERN LYON COUNTIES-GREATER RENO-CARSON CITY-
MINDEN AREA-
INCLUDING THE CITIES OF...HAWTHORNE...YERINGTON...SMITH VALLEY...
MINA...SCHURZ...SPARKS...VERDI...GARDNERVILLE
256 PM PST WED JAN 2 2008

...HIGH WIND WARNING IN EFFECT FROM 4 AM TO 6 PM PST FRIDAY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A HIGH WIND WARNING...WHICH IS IN EFFECT FROM 4 AM TO 6 PM PST FRIDAY. THE HIGH WIND WATCH IS NO LONGER IN EFFECT.

- * WIDESPREAD WIND SPEEDS OF 30 TO 40 MPH WITH GUSTS UP TO 65 MPH WILL OCCUR. DAMAGING GUSTS TO 80 MPH ARE POSSIBLE IN THE FOOTHILLS AND WIND PRONE AREAS.
- * THE STRONGEST AND MOST ERRATIC WINDS WILL AFFECT THE AREA FRIDAY AFTERNOON AS THE COLD FRONT PASSES.
- * DAMAGE TO TREES...POWER LINES AND PROPERTY IS LIKELY WITH WINDS OF THIS MAGNITUDE.
- * REDUCED VISIBILITY DUE TO AREAS OF BLOWING DUST AND STRONG CROSS WINDS WILL CREATE DANGEROUS TRAVEL CONDITIONS ON HIGHWAYS 50...95 AND 395.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

PERSONS PLANNING TRAVEL ACROSS WESTERN NEVADA AND NORTHEAST CALIFORNIA SHOULD CONTINUE TO MONITOR FORECASTS AND STATEMENTS FROM THE NATIONAL WEATHER SERVICE FOR UPDATES.

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Sample RFW:

NVZ450-080000-
/O.NEW.KREV.FW.A.0014.090709T1800Z-090710T0400Z/
WESTERN NEVADA SIERRA FRONT-
1010 AM PDT TUE JUL 7 2009

...FIRE WEATHER WATCH IN EFFECT FROM THURSDAY MORNING THROUGH THURSDAY EVENING FOR WESTERN NEVADA DUE TO GUSTY WINDS AND LOW HUMIDITY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A FIRE WEATHER WATCH...WHICH IS IN EFFECT FROM THURSDAY MORNING THROUGH THURSDAY EVENING.

- * LOCATIONS INCLUDE FIRE WEATHER ZONE 450...THE SIERRA FRONT FROM THE RENO-SPARKS AREA SOUTHWARD TO MINDEN AND GARNDERVILLE.
- * SOUTHWEST WINDS ARE FORECAST TO INCREASE TO 15 TO 25 MPH...WITH GUSTS UP TO 40 MPH THURSDAY AFTERNOON.
- * VERY LOW HUMIDITY WILL OCCUR THURSDAY WITH VALUES DROPPING BELOW 10 PERCENT BY LATE THURSDAY MORNING.
- * THESE WINDS ARE FORECAST TO COMBINE WITH A VERY DRY AIR TO PRODUCE CRITICAL FIRE WEATHER CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A FIRE WEATHER WATCH MEANS THAT CRITICAL FIRE CONDITIONS ARE POSSIBLE. CHECK WEATHER.GOV/RENO FOR UPDATES AND POSSIBLE RED FLAG WARNINGS.

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Sample RFW:

RED FLAG WARNING
NATIONAL WEATHER SERVICE SALT LAKE CITY UT
215 AM MDT THU JUL 9 2009

UTZ435-437-439-440-091800-
/O.NEW.KSLC.FW.W.0002.090709T1800Z-090710T0400Z/
SOUTHWEST DESERTS AND MOUNTAINS-
SOUTHWEST AND SOUTH CENTRAL MOUNTAINS-UTAH DIXIE AND ZION CANYON-
SOUTH CENTRAL UTAH-
215 AM MDT THU JUL 9 2009

...RED FLAG WARNING IN EFFECT FROM NOON TODAY TO 10 PM MDT THIS
EVENING FOR GUSTY SOUTHWEST WINDS AND LOW RELATIVELY HUMIDITY
ACROSS SOUTHERN UTAH. THIS WARNING INCLUDES FIRE WEATHER
ZONES 435...437...439 AND 440...

*AFFECTED AREA: THIS WARNING IS FOR SOUTHWEST AND SOUTH CENTRAL UTAH
INCLUDING FIRE WEATHER ZONES 435...437...439 AND 440.

*TIMING: NOON TODAY THROUGH 10 PM MDT THIS EVENING.

*WINDS: SOUTHWEST WINDS OF 15 TO 25 MPH...WITH GUSTS IN EXCESS OF 30
MPH.

*RELATIVE HUMIDITY: EXTREMELY LOW RELATIVE HUMIDITY BETWEEN 5 AND 10 PERCENT.

*IMPACTS: THESE WINDS...COMBINED WITH A VERY DRY AIRMASS IN PLACE
ACROSS THE REGION...WILL RESULT IN CRITICAL FIRE WEATHER CONDITIONS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A RED FLAG WARNING MEANS THAT CRITICAL FIRE WEATHER CONDITIONS
ARE EITHER OCCURRING NOW...OR WILL SHORTLY. A COMBINATION OF
STRONG WINDS...LOW RELATIVE HUMIDITY...AND WARM TEMPERATURES WILL
CREATE EXPLOSIVE FIRE GROWTH POTENTIAL

Part II – Technical Description

a. Format and Science Basis – Using these formatter customizations, Forecasters can quickly create products focused on the most important information users need during winter storm and non-precipitation weather events.

b. Availability – These products are event driven and will be issued and updated as needed during the experimental period through October 29, 2010. If technical software problems develop during this testing period, the format would revert back to the format described in [10-513 WFO Winter Weather Products Specification](#), [10-515 WFO Non-Precipitation Weather Products Specification](#) and [10-401 Fire Weather Services Product Specification](#).

List of Participating WFOs

Western Region (all WFOs)

Billings (BYZ)
Boise (BOI)
Elko (LKN)
Eureka (EKA)
Flagstaff (FGZ)
Glasgow (GGW)
Great Falls (TFX)
Hanford (HNX)
Las Vegas (VEF)
Medford (MFR)
Missoula (MSO)
Monterey (MTR)
Oxnard (LOX)
Pendleton (PDT)
Phoenix (PSR)
Pocatello (PIH)
Portland (PQR)
Reno (REV)
Sacramento (STO)
Salt Lake City (SLC)
San Diego (SAN)
Seattle (SEW)
Spokane (OTX)
Tucson (TWC)

Central Region (all WFOs)

Aberdeen (ABR)
Bismarck (BIS)
Boulder/Denver (BOU)
Central Illinois/Lincoln (ILX)
Cheyenne (CYS)
Chicago (LOT)
Des Moines (DMX)
Detroit (DTX)
Dodge City (DDC)
Duluth (DLH)
E N Dakota/Grand Forks
(FGF)
Goodland (GLD)
Grand Junction (GTJ)
Grand Rapids (GRR)
Green Bay (GRB)
Hastings (GID)
Indianapolis (IND)
Jackson (JKL)

La Crosse (ARX)
Louisville (LMK)
Marquette (MQT)
Milwaukee/Sullivan (MKX)
Minneapolis/Chanhassen
(MPX)
N C L Michigan/Gaylord
(APX)
North Platte (LBF)
Northern Indiana/Webster
(IWX)
Omaha (OAX)
Paducah (PAH)
Pleasant Hill (EAX)
Pueblo (PUB)
Quad Cities/Davenport (DVN)
Rapid City (UNR)
Riverton (RIW)
Sioux Falls (FSD)
Springfield (SGF)
St. Louis (STL)
Topeka (TOP)
Wichita (ICT)

Eastern Region (3 WFOs)

Baltimore-Washington (LWX)
Blacksburg (RNK)
Burlington (BTV)

Southern Region (9 WFOs)

Albuquerque (ABQ)
Amarillo (AMA)
Lubbock (LUB)
Norman (OUN)
Tulsa (TSA)
Little Rock (LZK)
Memphis (MEG)
Nashville (BNA)
Morristown (MRX)

Alaska

Juneau (AJK)