



**NOAA's National Weather Service
Weather Forecast Office Reno
2350 Raggio Pkwy
Reno, NV 89512**

<http://www.wrh.noaa.gov/rev>

Products and Media Guide
For Western Nevada and Northeastern California
Fall 2007



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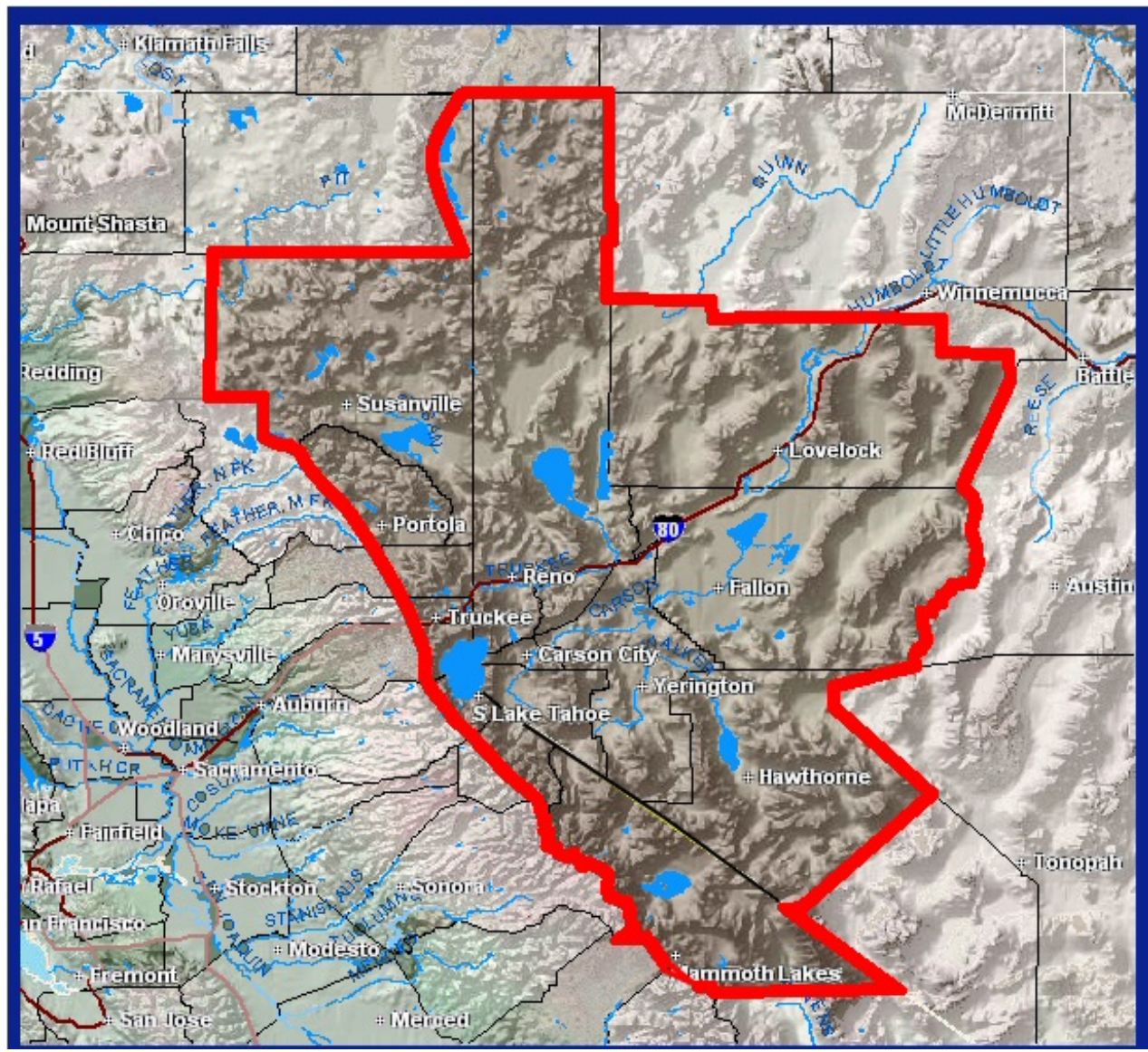
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WFO Reno CWA (County Warning Area)



The National Weather Service forecast office in Reno, Nevada is responsible for 7 counties in Nevada (Washoe, Carson City, Storey, Douglas, Pershing, Mineral, Lyon) and 10 counties in California covering the Eastern lee side slopes of the Sierra Nevada mountain range in Northeastern California (Mono, Alpine, Douglas, El Dorado, Sierra, Nevada, Plumas, Lassen, Placer, and Modoc). Since many counties in Reno's CWA are either large in size or include wide variations in climatology and/or elevation, portions of some counties may be included in more than one forecast zone. Several counties in California extend across the Sierra Crest, but WFO Reno only produces forecasts for portions of these counties east of the crest.

INTRODUCTION

This product and media guide was created by the National Weather Service (NWS) weather forecast office located in Reno, Nevada as a reference for emergency managers, media and other users in Northern Nevada and Northeastern California. It contains information on a variety of types of weather, hydrologic forecasts and warning products, fire weather forecasts, and includes examples of their headings and content. There are also definitions of frequently used terms and safety tips for various weather hazards.

This guide will be updated periodically to reflect continuing changes and enhancements. If you have questions or comments on this guide or any NWS product or service, please call the NWS in Reno at 775-673-8100. The Meteorologist-in-Charge (MIC) Jane Hollingsworth, the Warning Coordination Meteorologist (WCM) Rhett Milne, in addition to the entire WFO Reno staff will be glad to address any of your questions or concerns.

(Note: This guide is a reference only. The information presented is from local, regional and national policies and is current as of August 2007).

National Weather Service Mission

"The National Weather Service (NWS) provides weather, hydrologic, and climate forecasts and warnings for the United States, its territories, adjacent waters and ocean areas, for the protection of life and property and the enhancement of the national economy. NWS data and products form a national information database and infrastructure which can be used by other governmental agencies, the private sector, the public, and the global community."



TELEPHONE NUMBERS AND EMAIL ADDRESSES

NOAA National Weather Service
2350 Raggio Pkwy.
Reno, NV 89512

The Following Numbers are for use by the **general public**:

- Public Line: (775) 673-8100
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COMMUNICATIONS OF WEATHER PRODUCTS

Mass Media Dissemination

The NWS disseminates weather products to media customers utilizing news services such as the Associated Press as well as through private vendors. The products are identified using either a seven, eight, or nine character name, *cccNNNxxx*, where *ccc* is the state liaison forecast office, *NNN* is the product name, and *xxx* is the originating forecast office I.D. An example of this code is RNOZFPREV, where RNO represents the Reno NWS Forecast Office, ZFP is for the Zone Forecast Product, and REV is the I.D. for the Reno NWS Forecast Office.

World Wide Web

Over the past few years, weather information available over the internet has greatly increased. Each NWS office has their own web page, which includes a large amount of information, including the latest forecasts and warnings, current conditions, river forecasts, as well as links to local radar and satellite data. Additional weather information is available from universities, other government agencies and private sector companies. (No link or mention of a particular internet site or vendor constitutes an endorsement by NOAA's National Weather Service).

Since there is a brief delay from when a product is released to when it gets to the web and because internet servers can go down without notice, you should not rely solely on the web for short-fused warnings or for updates in rapidly changing weather situations. In addition to the formal web site address, the NWS instituted an easier way to find your local weather office web site, by using weather.gov/office name. Both ways to find area NWS office web sites are listed below. Both web addresses will take you to the same site.

NWS Reno web site is www.wrh.noaa.gov/rev or weather.gov/reno

www.weather.gov Homepage

NOAA's National Weather Service - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.weather.gov/

Getting Started Latest Headlines

WFO Reno Intra... National Weather ... NOAA's National ... NOAA Home Page ... NOAA - National W... MesoWest Weathe... CHP Traffic Incide... NOAA's Workforce...

National Oceanic and Atmospheric Administration's

National Weather Service

Site Map News Organization Search NWS All NOAA Go

Local forecast by "City, St" Go

XML RSS Feeds

Warnings Current By State/County... UV Alerts

Observations Radar Satellite Snow Cover Surface Weather... Observed Precip

Forecasts Local Graphical Aviation Marine Hurricanes Severe Weather Fire Weather

Text Messages By State By Message Type National

Forecast Models Numerical Models Statistical Models...

Climate Past Weather Predictions

Weather Safety Weather Radio Hazard Assmt... StormReady / TsunamiReady

Education/Outreach Information Center Tsunamis Publications...

...NOAA Weather Radio All Hazards: On Alert For All Emergencies...

NOAA Weather Radio All Hazards saves lives by providing immediate alerts of severe weather warnings and civil emergency messages and giving critical lead time to respond and remain safe. Broadcasts of life saving warnings make NOAA Weather Radio All Hazards an essential item for every home, business and public area.

Details...

Warnings & Forecasts Graphical Forecasts National Maps Radar Rivers Air Quality Satellite Climate

Warnings By State Go Click Below To Zoom In. Tabs At A Glance

American Samoa · Guam · Puerto Rico/Virgin Islands

Tornado Warning	Gale Warning	Blowing Dust Advisory
Severe Thunderstorm Warning	Red Flag Warning	Wind Advisory
Flash Flood Warning	Snow And Blowing Snow Advisory	Winter Storm Watch
Blizzard Warning	Snow Advisory	Flood Watch
Heavy Snow Warning	Winter Weather Advisory	High Wind Watch
Winter Storm Warning	Snow Advisory	Fire Weather Watch
Storm Warning	Winter Weather Advisory	Local Area Emergency
Flood Warning	Heavy Freezing Spray Warning	Flood Statement
High Wind Warning	Blowing Snow Advisory	Special Weather Statement
Severe Thunderstorm Watch	Small Craft Advisory	Short Term Forecast
Flash Flood Watch	Brisk Wind Advisory	Hazardous Weather Outlook
Flash Flood Statement	Marine Weather Statement	
	Dense Fog Advisory	

Last update: 03.26.07 - Mon - 06:46:36 PM (EDT)

Done

Start Gatherer - WDTB NOAA's National Weat... Media Guide - Microsoft ... 4:21 PM

www.weather.gov/Reno Homepage

The screenshot shows the National Weather Service Forecast Office Reno, NV homepage. The browser window title is "National Weather Service - Reno, NV - Mozilla Firefox". The address bar shows "http://www.wrh.noaa.gov/rev/". The page features a blue header with the NOAA logo and the text "National Weather Service Forecast Office Reno, NV". Below the header is a navigation menu with "HOME", "NEWS", and "ORGANIZATION". A search bar is located on the right side of the header. The main content area is titled "News and Information:" and contains three news items: "Become a CoCoRaHS Weather Observer- A New Volunteer Observing Network in Nevada!!", "Check out the 'EPA's Climate Change' page!", and "See the latest monthly update to the 'Climate of Reno' publication!". Below the news items is a dropdown menu for "Last 30 Products Issued". The main content area also features a map of Western Nevada with a legend for weather watches, warnings, and advisories. The legend includes: Winter Storm Warning (pink), Heavy Snow Warning (purple), Snow And Blowing Snow Advisory (light blue), Snow Advisory (blue), Winter Weather Advisory (orange), Blowing Dust Advisory (yellow), Wind Advisory (brown), Special Weather Statement (light orange), and Short Term Forecast (green). The map shows various cities in Western Nevada, including Yreka, Mount Shasta, Cedarville, Gerlach, Winnemucca, Weaverville, Bieber, Susanville, Lovelock, Reno, Fallon, Austin, Chico, Oroville, Pomona, Tuckee, Carson City, Lake Tahoe, Marysville, Auburn, Sacramento, Markleeville, Hawthorne, Bridgeport, Tonopah, Napa, Stockton, Modesto, San Francisco, Yosemite NP, and Mammoth Lakes. The browser's taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 3:33 PM.

Emergency Alert System (EAS)

The Emergency Alert System (EAS) is a national system developed by the Federal Communications Commission (FCC), which allows the NWS and others access to commercial radio and television stations for announcing emergency messages to the public. The NWS in Reno has access to this system through the NOAA All Hazards Radio. The radio system includes Specific Area Message Encoders (SAME) that allows for transmitted tones to directly trigger radio and television station EAS equipment. For more information on SAME codes, emergency managers or broadcasters should visit:

http://www.nws.noaa.gov/om/dissemination/eas_codes.shtml

NOAA All Hazards Radio

NOAA All Hazards Radio consists of NWS and privately owned radio transmitters that broadcast the latest weather and hydrologic information directly from the NWS office. Weather messages are sent to the radio console system for broadcast. The program cycle repeats approximately every 5 minutes and includes the latest forecasts, weather observations, and warnings for the listening area covered by the transmitter. In addition to weather products, other emergency information may be broadcast as needed. Radio receivers can be purchased from various electronic stores.

During severe weather events, the NWS can pre-empt the routine weather broadcasts and substitute special warning messages. When life threatening weather is anticipated, the NWS can also activate specially designed warning receivers. The receivers either sound an alarm to indicate that an emergency exists, or they are automatically turned on so that the warning message is heard. Some radio receivers can be programmed to only alarm for specific counties and for specific warnings. These severe weather warnings are alarmed and broadcast as soon as issued by NWS personnel. NOAA All Hazards Radio system is the fastest way to receive warning information.

Commercial radio and TV stations are authorized to rebroadcast any material transmitted over the NOAA All Hazards Radio system.

The NOAA All Hazards Radio broadcasts over transmitters utilizing one of seven frequencies in the 162 MHz range:

162.400 MHz	162.425 MHz	162.450 MHz	162.475 MHz	162.500 MHz	162.525 MHz	162.550 MHz
-------------	-------------	-------------	-------------	-------------	-------------	-------------

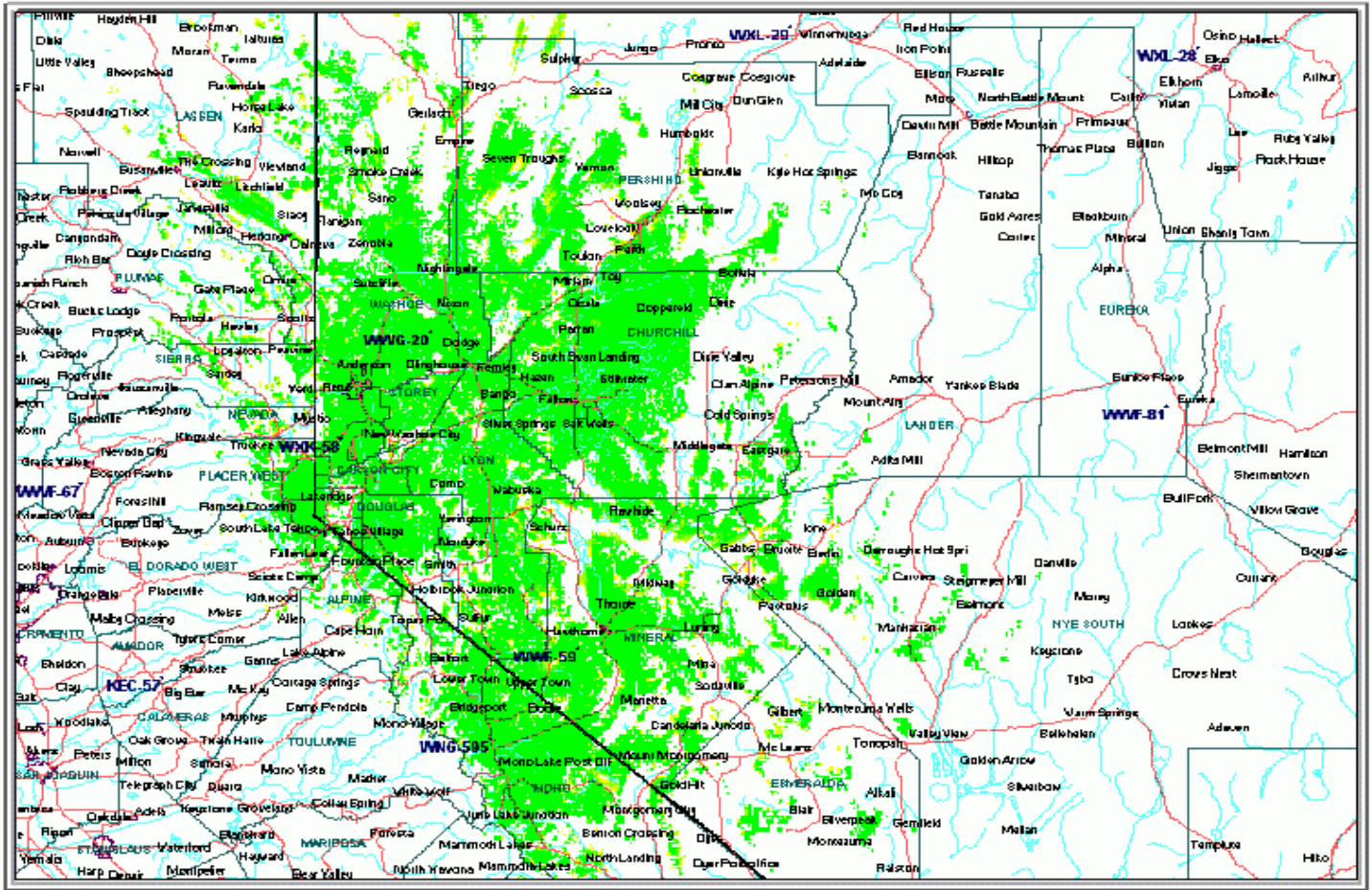
The broadcasts can usually be heard out to 40 miles from the transmitter site. The effective range depends on many factors, particularly the height of the broadcast antenna, terrain, transmitter output power, quality of the receiver, and type of receiving antenna. The number of transmitters has increased greatly in the past few years, and most of the population is within listening range of at least one transmitter. Visit <http://weather.gov/nwr> to see coverage maps of weather radio transmitters nationwide. A map of transmitter sites broadcasting from NWS Reno and approximate coverage areas are on the following pages.

NWR Transmitter Locations and Frequencies

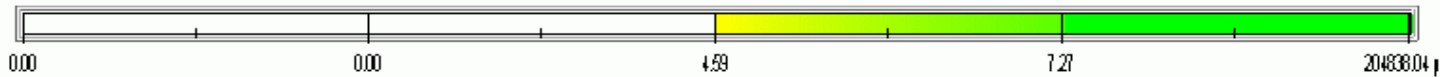
NWS Western Region

REV NWR COVERAGE

Thursday, January 12, 2006



green = 8 microvolt signal strength



- County Borders
- State Borders
- City Borders
- Highways
- Water Features

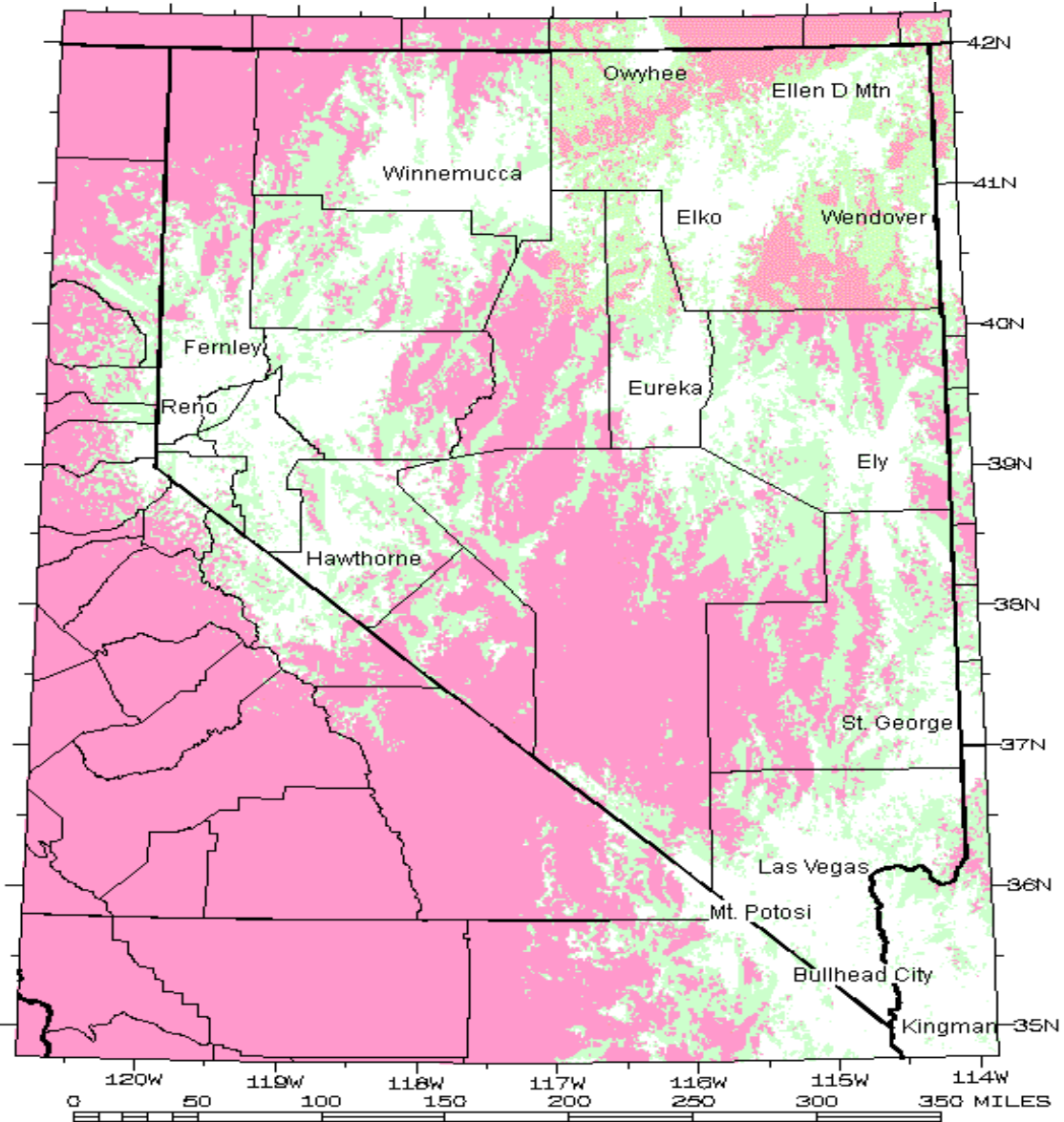
WXK58 in Reno broadcasted from Slide Mountain – 162.550 MHz

WWG20 in Pyramid Lake and Fernley broadcasted from Virginia Peak – 162.450 MHz

WWF59 in Hawthorne broadcasted from Corey Peak – 162.475 MHz

WNG595 near Mono Lake broadcasted from Conway Summit – 162.525 MHz

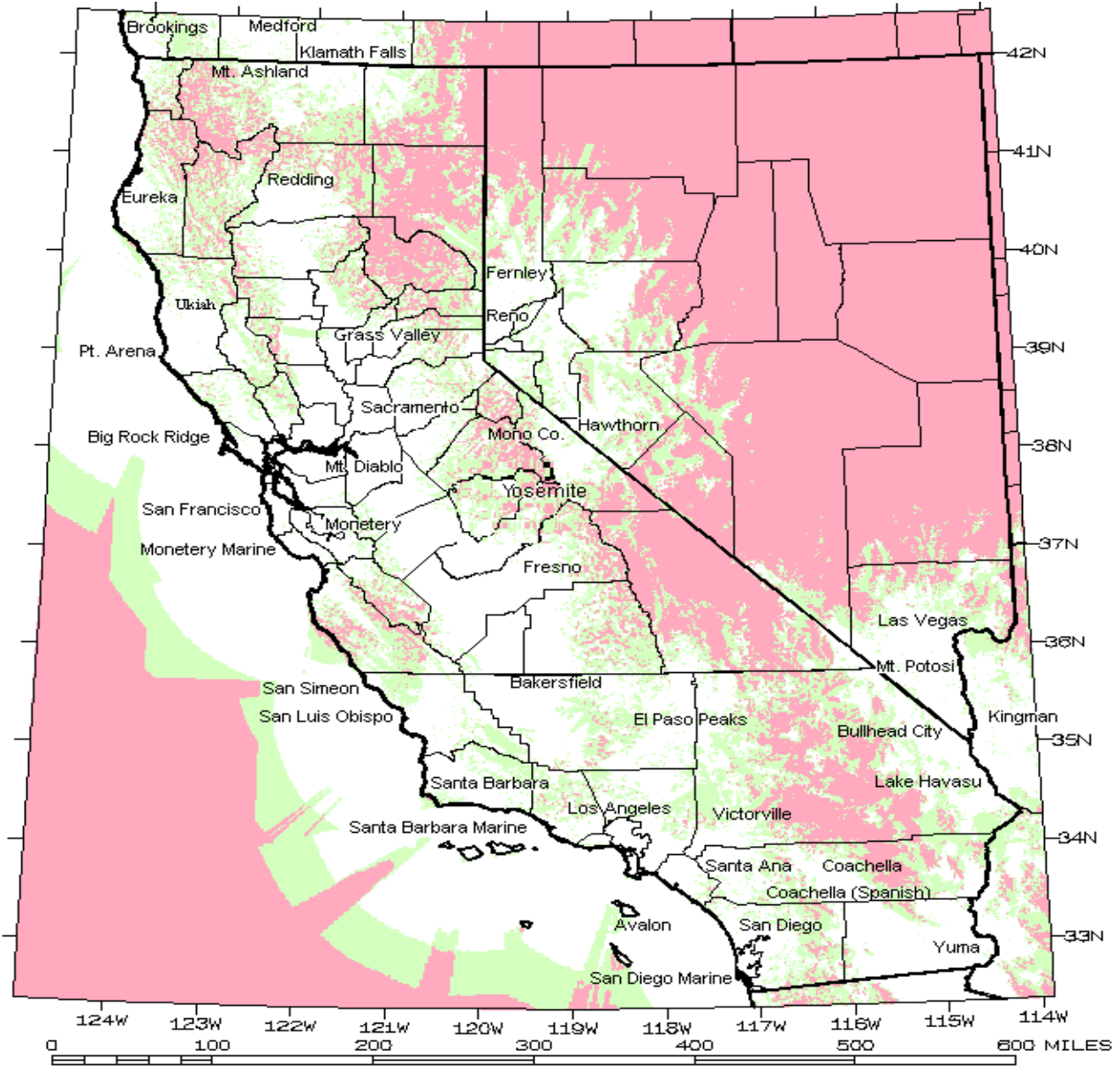
Nevada NWR Coverage Map



The coverage maps are shown in a three color format, which relates to three estimated signal levels:

- **White:** Signal level of greater than 18dBuV: Reliable coverage
- **Green:** 0dBuV to 18dBuV: picking up a signal is possible but unreliable
- **Red:** Less than 0dBuV: Unlikely to receive a signal

California NWR Coverage Map



The coverage maps are shown in a three color format, which relates to three estimated signal levels:

- **White:** Signal level of greater than 18dBuV: Reliable coverage
- **Green:** 0dBuV to 18dBuV: picking up a signal is possible but unreliable
- **Red:** Less than 0dBuV: Unlikely to receive a signal

National Warning System (NAWAS)

Funded by the Federal Emergency Management Agency (FEMA), the National Warning System (NAWAS) is a comprehensive party-line network of telephone circuits connecting more than 1,500 state and federal warning points throughout the United States. Although NAWAS is a national system, the day-to-day operation is under the control of individual states. Each state has its own plan for the use of NAWAS during weather emergencies.

NAWAS is used to warn the public, through local governments, about potential loss of life and/or property. Such threatening situations are not limited to weather or hydrologic events. The warning message can also include information on dam breaks, earthquakes, volcanoes, major fires, other civil emergencies and terrorist attacks. The NWS in Reno uses NAWAS to relay all weather warnings to state police posts and offices of emergency services that are responsible for particular areas. These state police posts and emergency services offices then relay the warning to local city or county police and the appropriate personnel.

Emergency Managers' Weather Information Network (EMWIN)

The Emergency Managers' Weather Information Network (EMWIN) is a low cost method for receiving NWS information. The system, including a small satellite dish, is purchased by the user. The data is received free of charge using a small satellite dish receiving system connected to a home or office personal computer or by a repeat radio broadcast. The data is accessed and displayed using windows based point and click software. The latest weather and flood warnings, watches, forecasts, statements, observations, and other data are automatically stored, along with some weather graphics like the radar summary and some satellite imagery. The data are available nationwide directly from satellites and the system can be purchased by anyone, although it is intended to be used *primarily* by emergency managers and public safety officials who need timely weather information to make critical decisions. . For more information, contact the NWS office in Reno or access the EMWIN home page at <http://www.weather.gov/emwin/index.htm>

VTEC Coding

VTEC coding is something new to NWS products. It was designed for use by media and other means of communication to better track certain event times and expirations.

- P-VTEC will be used for most NWS watch, warning and advisory products.
- H-VTEC is used only for hydrology products.

P-VTEC

P-VTEC Line /k.aaa.cccc.pp.s.####.yymmddThhnnZB-yymmddThhnnZE/

Event Group:

k - Product/VTEC line Status (O, T, E, X)

O Operational product

T Test product

E Experimental product

X Experimental VTEC in Operational product

aaa - Action (NEW, CON, EXA, EXT, EXB, UPG, CAN, EXP, ROU, COR)

NEW Event New

CON Event Continued

EXA Event Extended/Area

EXT Event Extended/Time

EXB Event Extended/Both

UPG Event upgraded

CAN Event cancelled

EXP Event expired

ROU Event Routine

COR Corrected (Event &/or VTEC)

cccc - Office ID

pp - Phenomena (see table on next page)

s - Significance (W, A, Y, S)

W Warning

A Watch

Y Advisory

S Statement

- Event Tracking Number (ETN)

Date/Time Group:

yymmddThhnnZ_B - Event Beginning Date/Time

yymmddThhnnZ_E - Event Ending Date/Time

yy - year **hh** - hour

mm - month **nn** - minute

dd - day **Z** - fixed UTC indicator

T - fixed time indicator

Phenomena (pp) which can occur in our area:

BZ Blizzard	FZ Freeze	DU Blowing Dust
WS Winter Storm	FR Frost	DS Dust Storm
WW Winter Weather	ZF Freezing Fog	FL Flood
SN Snow	WC Wind Chill	FF Flash Flood
HS Heavy Snow	EC Extreme Cold	SV Severe Thunderstorm
BS Blowing/Drifting	WI Wind	TO Tornado
SB Snow/Bln Snow	HW High Wind	FW Fire Weather
IP Sleet	FG Dense Fog	RH Radiological Hazard
HP Heavy Sleet	SM Dense Smoke	AS Air Stagnation
ZR Freezing Rain	HT Heat	
IS Ice Storm	EH Excessive Heat	

H-VTEC (for hydrology products only)

H-VTEC Line /s.ic.yymmddThhnnZB.yymmddThhnnZC.yymmddThhnnZE.fr/

Event Group:

s - Flood Severity (N,0, 1, 2, 3, U)

N None

0 For Flash Flood and Areal Flood Warnings

1 Minor

2 Moderate

3 Major

U Unknown

ic - Immediate Cause (ER, SM, RS, DM, IJ, UU)

ER Excessive Rainfall

SM Snowmelt

RS Rain/Snowmelt

DM Dam/Levee

IJ Ice Jam

UU Unknown

fr - Flood Record (NO, NR, UU)

NO A record flood is not expected

NR A near record or record flood is expected

UU Flood without a period of record to compare

For Flash Flood and Areal Flood Warnings A record flood is not expected Near record or record flood Expected

Date/Time Group:

yymmddThhnnZ_B - Flood **Begin** Date/Time

yymmddThhnnZ_C - Flood **Crest** Date/Time

yymmddThhnnZ_E - Flood **End** Date/Time

Explanation of Template used for Sample Products in this Guide

<u>TITLE</u>		
PIL	Station	WMO ID
WMO Header	WMO ID Station Day/Time	
UGC Coding		
MND Heading		
Issuance Time		
Valid Time		

- Title:** Name of the Product
- PIL:** Product Identifier List
- Station:** Office Issuing the Product
- WMO ID:** World Meteorological Organization Identifier
- WMO Header:** World Meteorological Organization Identifier includes NWS office where the product was issued and the exact time it was issued.
- UGC Coding:** Universal Geographic Code coding, used to identify each specific forecast zone or county the product was issued for.
- MND Heading:** Mass News Dissemination heading
- Issuance Time:** Time the Product was issued
- Valid Time:** Time period that the product is valid

NWS Reno Products and Media Guide

Public Products:

- Zone Forecast Product (RNOZFPREV)
- Area Forecast Discussion (RNOAFDREV)
- Point Forecast Matrix (RNOPFMREV)
- Short Term Forecast (RNONOWREV)
- State Forecast Table (RNOSFTREV)
- State Recreation Forecast (RNORECREV)
- Coded Cities Forecast (RNOCCFREV)
- Climate Report for Reno, NV (KRNO) (RNOCLIRNO)
- Monthly Climate Report for Reno, NV (RNOCLMRNO)
- Preliminary Local Climatological Data (RNOCF6RNO)
- Evening/Morning Temperature and Precipitation Summary (RNORTPREV)
- Public Information Statement (RNOPNSREV)
- Record Event Report (RNORERREV)
- Radar Free Text Message (RNOFTMRGX)
- Civil Emergency Message (RNOCEMREV)
- Preliminary Earthquake Report (RNOEQRREV)
- Child Abduction Emergency Message-Amber Alert (RNOCAEREV)
- Hazardous Weather Outlook (RNOHWOREV)
- Hourly Weather Roundup (RNORWRNV)



ZONE FORECAST PRODUCT		
RNOZFPREV	KREV	FXUS55
WMO Header	FPUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Zone forecast product for Western Nevada-Eastern Sierra-Northeast California	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	12 Hours	

Description:

The Zone Forecast Product is a text product issued by the Reno NWS to explicitly state expected weather conditions within each zone (a geographic location that has sufficient climatological and meteorological homogeneity to allow a single forecast to serve as the forecast for that area) through 7 days. Descriptive forecast information includes weather types, general cloud coverage, high and low temperatures and trends, probability of measurable precipitation, wind speed and direction. Watches, Warnings, and Advisories along with other significant weather are headlined. The 7 days of the forecast are split into 12-hour time periods.

CAZ072-NVZ002-021515-
 GREATER LAKE TAHOE AREA-
 INCLUDING THE CITIES OF...SOUTH LAKE TAHOE...TAHOE CITY...
 TRUCKEE...MARKLEEVILLE...GLENBROOK...INCLINE VILLAGE
 330 PM PST THU MAR 1 2007

.TONIGHT...MOSTLY CLOUDY WITH SCATTERED SNOW SHOWERS. LOWS 11 TO 21.
 WEST WINDS 10 TO 15 MPH WITH GUSTS UP TO 45 MPH OVER RIDGES.
 .FRIDAY...MOSTLY CLOUDY. HIGHS 37 TO 47. LIGHT WINDS BECOMING
 NORTH UP TO 10 MPH IN THE AFTERNOON. GUSTS UP TO 40 MPH OVER
 RIDGES.
 .FRIDAY NIGHT...PARTLY CLOUDY. LOWS 14 TO 24. EAST WINDS 10 TO
 15 MPH WITH GUSTS UP TO 35 MPH OVER RIDGES.
 .SATURDAY...SUNNY. HIGHS 45 TO 55. EAST WINDS AROUND 10 MPH.
 .SATURDAY NIGHT...PARTLY CLOUDY. LOWS 17 TO 27. SOUTHEAST WINDS
 AROUND 10 MPH.
 .SUNDAY...PARTLY CLOUDY. HIGHS 45 TO 55.
 .SUNDAY NIGHT...PARTLY CLOUDY. LOWS 15 TO 25.
 .MONDAY...MOSTLY CLOUDY. HIGHS 45 TO 55.
 .MONDAY NIGHT...PARTLY CLOUDY. LOWS 19 TO 29.
 .TUESDAY...MOSTLY CLOUDY AND BREEZY WITH A CHANCE OF RAIN AND SNOW. HIGHS
 46 TO 56.
 .TUESDAY NIGHT THROUGH WEDNESDAY NIGHT...CLOUDY AND BREEZY WITH A CHANCE
 OF RAIN AND SNOW. LOWS 21 TO 31. HIGHS 42 TO 52.
 .THURSDAY...MOSTLY CLOUDY WITH A SLIGHT CHANCE OF RAIN AND SNOW. HIGHS
 43 TO 53.

AREA FORECAST DISCUSSION		
RNOAFDREV	KREV	FXUS65
WMO Header	FXUS65 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Area Forecast Discussion	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	N/A	

Description:

The Area Forecast Discussion describes the meteorological reasoning used by the forecaster in developing the forecasts. (Available on the internet with a glossary). The discussion consists of a short term section (Days 1-3), long term section (Days 4-7), an aviation section, and the current advisories, watches, and warnings when applicable.

FXUS65 KREV 021124
AFDREV

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE RENO NV
325 AM PST FRI MAR 02 2007

.SHORT TERM...WEAK SHORT WAVES EMBEDDED IN NORTHWEST FLOW WILL CONTINUE TO MOVE ACROSS THE AREA THROUGH TONIGHT. MOISTURE CONTINUES TO SPILL OVER THE RIDGE OFF THE WEST COAST TO BRING A CHANCE OF ISOLATED SNOW SHOWERS TO NRN ZONES THROUGH EARLY SATURDAY MORNING. ANY SHOWERS WILL BE LIGHT WITH NO SNOW ACCUMULATION. HIGH PRESSURE RIDGE MOVES OVER THE AREA ON SATURDAY THEN QUICKLY PASSES BY INTO THE ERN GREAT BASIN BY SUNDAY. WARMER SOUTHWEST FLOW DEVELOPS BY SUNDAY WITH MID AND HIGH LEVEL MOISTURE...AND WEAK UPPER LEVEL DISTURBANCES MOVING ACROSS THE AREA. LOWER LEVELS ARE FAIRLY DRY ON SUNDAY AND MOISTEN UP SOME BY SUNDAY NIGHT. THEREFORE A SLIGHT CHANCE OF RAIN/SNOW WAS ADDED TO THE FORECAST FOR SUNDAY NIGHT. DEPENDING ON HOW QUICK THE LOWER LEVELS MOISTEN UP SHOWERS MAY BE NEEDED DURING THE DAY ON SUNDAY AS WELL...BUT CONFIDENCE IS TOO LOW AT THIS TIME TO ADD TO THE FORECAST. TEMPERATURES WILL WARM A FEW DEGREES TODAY...BUT WILL STILL REMAIN BELOW NORMAL IN WRN NV VALLEYS...AND LIKELY BELOW GUIDANCE DUE TO COOL NORTH-NORTHEAST FLOW. TEMPERATURES WILL WARM MORE SIGNIFICANTLY...AND ABOVE NORMAL ON SATURDAY AND SUNDAY AS RIDGE PASSES BY AND WARM SOUTHWEST FLOW DEVELOPS. BENINATO

.LONG TERM...MONDAY THROUGH THURSDAY...MED RANGE MODELS BRING WEAK S/WV TROUGH ACROSS AREA MONDAY FROM SW. ALTHOUGH HEIGHTS ARE RELATIVELY HIGH FOR PCPN...SUBTROPICAL MSTR INFLOW COULD BRING SOME VIRGA OR LIGHT SHOWERS TO AREA SO HAVE A MENTION OF SLIGHT CHANCE RAIN SHOWERS MONDAY. TUESDAY LOOKS TO BE MOSTLY DRY EXCEPT FOR INCREASING CLOUDS AND A SLIGHT CHANCE OF PCPN INTO NRN SIERRA BY AFTERNOON AS UPPER JET SAGS SWD IN ERN PAC. SOME TIMING DIFFERENCES IN MODELS WITH S/WV EMBEDDED IN WLY FLOW ACROSS PAC NW TUES NIGHT INTO WED. CONSENSUS AMONG MODELS SHOWS BEST CHC OF PCPN WED MORNING. KEPT CHC POPS IN FOR WED MAINLY ALONG SIERRA ZONES WITH FAIRLY HIGH SNOW LEVELS. BY WED NGT TROUGH AXIS MOVES E OF AREA WITH RIDGING AND DRYING ON THURSDAY. HAVE WARMED UP TEMPS A LITTLE ON THURSDAY AS PER GFS MOS TREND. CYLKE

.AVIATION...

GENERALLY VFR OVER VALLEY TAF LOCATIONS WHILE MOIST NWLY FLOW WILL KEEP NRN SIERRA AND TWEB RTES N OF RENO UNDER OCNL MVFR WITH MTNS OBSCD. CYLKE

.REV WATCHES/WARNINGS/ADVISORIES... NV...NONE...CA...NONE.

POINT FORECAST MATRIX		
RNOPFMREV	KREV	FOUS55
WMO Header	FOUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Point Forecast Matrix	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	Until Updated	

Description:

The Point Forecast Matrix is a site specific forecast for numerous sites throughout the forecast area. It provides a forecast in tabular style format out to 7 days.

NVZ003-040030-
 RENO-WASHOE NV
 39.49N 119.75W
 334 AM PST SAT MAR 3 2007

DATE	SAT 03/03/07								SUN 03/04/07								MON 03/05/07																											
UTC 3HRLY	11	14	17	20	23	02	05	08	11	14	17	20	23	02	05	08	11	14	17	20	23	02	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18
PST 3HRLY	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18	03	06	09	12	15	18	21	00	03	06	09	12	15	18	21	00	03	06	09	12	15	18
MAX/MIN	56								29								59								29								59											
TEMP	24	38	53	54	44	39	34	31	29	42	56	57	46	40	35	32	29	42	56	57	48	24	30	26	28	29	26	24	30	26	28	29	24	30	26	28	29	24	30	26	28	29		
DEWPT	19	25	24	27	29	26	27	25	23	29	26	30	32	28	29	26	24	30	26	28	29	24	30	26	28	29	24	30	26	28	29	24	30	26	28	29								
RH	81	59	32	35	55	59	75	78	78	60	31	35	58	62	78	78	81	62	31	33	47	81	62	31	33	47	81	62	31	33	47	81	62	31	33	47								
WIND DIR	SE	SE	SE	SE	SE	SE	SE	SE	S	S	S	S	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW													
WIND SPD	4	4	8	8	4	4	4	4	4	4	4	4	2	2	2	2	13	13	13	13	8	13	13	13	13	8	13	13	13	13	8													
CLOUDS	FW	FW	FW	FW	SC	SC	SC	SC	B1	B1	B1	B1	B2	B2	B2	B2	B1	B1	B1	B1	SC	B1	B1	B1	B1	SC	B1	B1	B1	B1	SC													
POP 12HR	0								0								0								20								20											
QPF 12HR	0								0								0								0								0.01											
SNOW 12HR	00-00								00-00								00-00																											
RAIN SHWRS																									S								S S S S											

DATE	TUE 03/06/07				WED 03/07/07				THU 03/08/07				FRI 03/09/07				
UTC 6HRLY	08	14	20	02	08	14	20	02	08	14	20	02	08	14	20	02	08
PST 6HRLY	00	06	12	18	00	06	12	18	00	06	12	18	00	06	12	18	00
MIN/MAX	34	62			36	61			33	63			33	65			
TEMP	39	34	59	50	41	36	59	49	38	33	60	50	39	33	62	52	
DEWPT	27	23	30	33	31	27	33	34	31	26	31	33	29	25	31	33	
PWIND DIR	SW	SW			SW	W			NW	SW			SW	SW			
WIND CHAR	GN	GN			GN	BZ			GN	GN			LT	GN			
AVG CLOUDS	SC	SC	SC	B1	B1	B2	B2	B1	SC	SC	FW	FW	FW	FW	FW	FW	
POP 12HR		5	10			20	20			10	5			5	5		
RAIN SHWRS						S	S	S									

SHORT TERM FORECAST		
RNONOWREV	KREV	FPUS75
WMO Header	FPUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Short Term Forecast	
Issuance Time	As needed.	
Valid Time	3 Hours or Less	

Description:

The Short Term Forecast covers expected weather conditions for the next 1 to 3 hours. The Short Term Forecast is used to pinpoint weather occurring over an area that is meteorologically significant. It is concise on when, where and what weather will happen. It uses geographical references (counties, cities, highways), starting and ending times of given weather, and what kind of weather will occur (snow changing to rain, thunderstorms with small hail, snow heavy at times etc.). The Short Term Forecast will be used as frequently as hourly during periods of rapidly changing weather. Updated and specific information on expected conditions during watches and warnings will also be handled with the Short Term Forecast.

FPUS75 KREV 271225
NOWREV

SHORT TERM FORECAST
NATIONAL WEATHER SERVICE RENO NV
525 AM PDT TUE MAR 27 2007

NVZ003-271400-
GREATER RENO-CARSON CITY-MINDEN AREA-
INCLUDING THE CITIES OF...SPARKS...VERDI...GARDNERVILLE
525 AM PDT TUE MAR 27 2007

.NOW...
A BAND OF SNOW WILL MOVE FROM THE NORTH VALLEYS OF RENO TO THE SOUTH SIDE OF RENO THROUGH AROUND 630 AM. GUSTY WINDS TO 40 MPH ARE ACCOMPANYING THE BAND OF SNOW...WHICH ARE CAUSING A 10 TO 20 MINUTE PERIOD OF WHITEOUT CONDITIONS. MOTORISTS ARE URGED TO BE PREPARED FOR EXTREMELY LOW VISIBILITIES FOR A BRIEF TIME. IN ADDITION...PATCHY ICE OR SNOW COVERED ROADS COULD CAUSE SLICK CONDITIONS THROUGH 10 AM.

State Forecast Table		
RNOSFTREV	KREV	FPUS65
WMO Header	FPUS65 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Tabular State Forecast for Western Nevada and Eastern California	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	12 Hours	

Description:

The Tabular State Forecast Product provides a 7 day forecast of daily predominant daytime weather from 6am to 6pm, forecast high and low temperatures and probability of precipitation for selected cities throughout Western Nevada, the Eastern Sierra, and Northeast California.

FPUS65 KREV 031134

SFTREV

NVZ001>005-CAZ070>073-040130-

TABULAR STATE FORECAST FOR WESTERN NEVADA AND EASTERN CALIFORNIA
 NATIONAL WEATHER SERVICE RENO NV
 334 AM PST SAT MAR 3 2007

ROWS INCLUDE...

DAILY PREDOMINANT DAYTIME WEATHER 6AM-6PM

FORECAST TEMPERATURES...EARLY MORNING LOW/DAYTIME HIGH

PROBABILITY OF PRECIPITATION NIGHTTIME 6PM-6AM/DAYTIME 6AM-6PM

- INDICATES TEMPERATURES BELOW ZERO

MM INDICATES MISSING DATA

FCST	FCST	FCST	FCST	FCST	FCST	FCST
TODAY	SUN	MON	TUE	WED	THU	FRI
MAR 03	MAR 04	MAR 05	MAR 06	MAR 07	MAR 08	MAR 09

...WESTERN NEVADA...

RENO

SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	SUNNY	SUNNY
/56	29/59	29/59	34/62	36/61	33/63	33/65
/00	00/00	00/20	00/10	10/20	10/10	00/00

CARSON CITY

SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	SUNNY	SUNNY
/54	23/58	29/59	33/60	31/60	32/61	32/63
/00	00/00	00/20	00/00	10/20	10/10	00/00

VIRGINIA CITY

SUNNY	PTCLDY	PTCLDY	PTCLDY	WINDY	SUNNY	SUNNY
/50	28/53	33/52	35/55	36/55	34/56	34/58
/00	00/00	00/20	00/00	10/20	10/10	00/00

LOVELOCK

SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	SUNNY	SUNNY
/53	22/59	27/60	28/63	30/62	28/64	28/66
/00	00/00	00/20	00/00	20/20	10/10	00/10

FALLON

SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	SUNNY	SUNNY
/57	24/60	30/60	32/64	34/62	31/65	31/67
/00	00/00	00/20	00/00	10/20	10/10	00/00

YERINGTON						
SUNNY	PTCLDY	PTCLDY	PTCLDY	PTCLDY	SUNNY	SUNNY
/57	24/60	28/60	31/64	34/63	30/62	30/64
/00	00/00	00/20	00/00	10/20	10/10	00/00
HAWTHORNE						
SUNNY	PTCLDY	PTCLDY	PTCLDY	PTCLDY	SUNNY	SUNNY
/57	25/60	30/61	33/65	36/65	31/64	31/66
/00	00/00	00/20	00/00	10/20	10/00	00/00
... EASTERN SIERRA ...						
TRUCKEE						
SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	PTCLDY	PTCLDY
/47	18/48	23/49	25/54	24/53	27/53	27/55
/00	00/00	20/20	10/10	40/40	20/10	00/10
SOUTH LAKE TAHOE						
SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	PTCLDY	SUNNY
/47	20/47	20/48	25/52	27/51	27/52	27/54
/00	00/10	20/20	10/10	30/40	20/10	10/10
LAKE TAHOE AREA AT 8000 FEET						
SUNNY	PTCLDY	WINDY	WINDY	WINDY	PTCLDY	PTCLDY
/35	30/37	27/34	26/44	28/42	27/45	27/47
/00	00/10	20/20	10/10	40/40	20/10	10/10
MARKLEEVILLE						
SUNNY	PTCLDY	PTCLDY	PTCLDY	MOCLDY	PTCLDY	SUNNY
/55	20/56	24/57	27/59	29/56	26/60	26/62
/00	00/00	10/20	00/10	30/40	20/10	10/10
BRIDGEPORT						
SUNNY	PTCLDY	PTCLDY	PTCLDY	PTCLDY	SUNNY	SUNNY
/50	15/53	17/54	24/56	21/55	23/58	23/60
/00	00/00	10/20	00/00	10/30	10/10	00/00
MAMMOTH LAKES						
SUNNY	PTCLDY	PTCLDY	PTCLDY	PTCLDY	SUNNY	SUNNY
/45	12/45	22/48	29/49	26/49	23/48	23/50
/00	00/00	20/20	00/00	10/30	10/10	00/00
... NORTHEAST CALIFORNIA ...						
CEDARVILLE						
PTCLDY	PTCLDY	MOCLDY	PTCLDY	MOCLDY	PTCLDY	PTCLDY
/47	25/53	27/54	30/56	30/54	28/57	28/59
/00	00/10	10/20	10/20	30/30	20/10	10/10
SUSANVILLE						
SUNNY	PTCLDY	PTCLDY	PTCLDY	SHWRS	PTCLDY	PTCLDY
/50	25/53	30/54	34/58	33/57	30/59	30/61
/00	00/10	20/20	10/10	40/50	20/10	10/10
PORTOLA						
SUNNY	PTCLDY	MOCLDY	PTCLDY	MOCLDY	PTCLDY	PTCLDY
/47	21/51	25/52	29/56	29/55	30/55	30/57
/00	00/10	20/20	10/10	40/40	20/10	10/10

RECREATION FORECAST PRODUCT		
RNORECREV	KREV	SXUS45
WMO Header	SXUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Recreation Forecast	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	12 Hours	

Description:

The Recreation Forecast Product provides a detailed forecast for Lake Tahoe at lake level and for Pyramid Lake at lake level. Lake Wind Advisories will be highlighted when in effect.

SXUS45 KREV 270941
RECREV

RECREATION FORECAST
NATIONAL WEATHER SERVICE RENO NV
240 AM PDT TUE MAR 27 2007

CAZ072-NVZ002-280015-
LAKE TAHOE AT LAKE LEVEL-
240 AM PDT TUE MAR 27 2007

.TODAY...NUMEROUS SNOW SHOWERS. NORTHWEST WINDS 10 TO 15 MPH WITH GUSTS UP TO 25 MPH IN THE AFTERNOON. HIGHS AROUND 33.
.WEDNESDAY...SUNNY. NORTHEAST WINDS 10 TO 20 MPH WITH GUSTS UP TO 30 MPH IN THE AFTERNOON. HIGHS AROUND 42.

NVZ004-280015-
PYRAMID LAKE AT LAKE LEVEL-
240 AM PDT TUE MAR 27 2007

.TODAY...CLOUDY IN THE MORNING THEN BECOMING MOSTLY CLOUDY. SCATTERED SNOW SHOWERS. NORTHWEST WINDS 10 TO 15 MPH WITH GUSTS TO 25 MPH. HIGHS AROUND 42.
.WEDNESDAY...SUNNY. NORTHWEST WINDS 10 TO 15 MPH. HIGHS AROUND 51.

CODED CITIES FORECAST		
RNOCCFREV	KREV	FPUS45
WMO Header	FPUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Tabular State Forecast for Western Nevada and Eastern California	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	12 Hours	

Description:

The Coded Cities Forecast provides a detailed forecast for forecast points across the country, and is primarily used for travel forecasts. The Reno forecast office issues a forecast for 6 cities in our region.

FPUS45 KREV 031102
CCFREV

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Reno          RNO UB 056/029 059/029 059 65000
              BBEUU 034/062 036/061 033/063 033/065 02--121---
Tahoe Valley  TVL UB 047/020 047/020 048 6500-
              BBEBU 025/052 027/051 027/052 027/054 22--3421-1
Navy Fallon   NFL UB 057/024 060/030 060 65000
              BBEUU 032/064 034/062 031/065 031/067 -200121--0
Lovelock      LOL UB 053/022 059/027 060 65000
              BBEUU 028/063 030/062 028/064 028/066 -20-221---
Mammoth       MMH UB 045/012 045/022 048 65000
              BBBUU 029/049 026/049 023/048 023/050 220-131-00
Truckee       TRK UB 047/018 048/023 049 6500-
              BBEBB 025/054 024/053 027/053 027/055 22-14421-1

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Here is an example with an explanation of the codes:

1. FPUS4 KSLC 190840
 2. CCFSLC
 3. SLC BE 093/066 091/068 090 12--2
 4. CDC EB 086/060 086/060 087 12-22
- A** **B** **C** **D** **E** **F**

1. Message Identification (Header, Station, Initial Date and Time (UTC))
2. Header
3. Salt Lake City Forecast (SLC)
4. Cedar City Forecast (CDC)

- A.** Station Name
- B.** Weather Codes for first Daytime and Nighttime Period (see below)
- C.** Maximum or Minimum Temperature for Daytime/Nighttime Period
- D.** Maximum or Minimum Temperature for Daytime/Nighttime Period
- E.** Maximum or Minimum Temperature for Daytime/Nighttime Period
- F.** Precipitation Forecast for first three Daytime/Nighttime Period (see below)

Precipitation Forecast:

-: less than 10% chance

+: greater than 90% chance

0-9: % chance, ie 5 is 50% chance

Weather Codes:

A Fair

B Partly Cloudy

C Cloudy

D Dust

E Mostly Cloudy

F Foggy

G Very Hot

H Haze

I Very Cloudy

J Snow Showers

K Smoke

L Drizzle

M Flurries

N Windy

O Rain Showers

P Blizzard

Q Blowing Snow

R Rain

S Snow

T Thunderstorms

U Sunny

V Clear

W Showers

X Sleet

Y Freezing Rain

Z Freezing Drizzle

CLIMATE REPORT (KRNO)		
RNOCLIRNO	KREV	CDUS45
WMO Header	CDUS45 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Climate Report	
Issuance Time	Around 1a and 430p.	
Valid Time	N/A	

Description:

The Climate Summary give detailed daily weather statistics (usually for yesterday) from the Reno-Tahoe International Airport, including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. The climate normal period is 1971-2000 and the climate record period is 1888-2006.

CDUS45 KREV 030853
CLIRNO

CLIMATE REPORT
NATIONAL WEATHER SERVICE RENO NV
1248 AM PST SAT MAR 3 2007

.....

...THE RENO TAHOE AIRPORT CLIMATE SUMMARY FOR MARCH 2 2007...

CLIMATE NORMAL PERIOD 1971 TO 2000
CLIMATE RECORD PERIOD 1888 TO 2006

WEATHER ITEM	OBSERVED TIME	RECORD YEAR	NORMAL VALUE	DEPARTURE FROM NORMAL	LAST YEAR
	VALUE (LST)	VALUE	VALUE		YEAR

.....

TEMPERATURE (F)

YESTERDAY

MAXIMUM	49	358 PM	76	1921	55	-6	47
MINIMUM	24	630 AM	11	1971	28	-4	32
AVERAGE	37				41	-4	40

PRECIPITATION (IN)

YESTERDAY	0.00		0.51	1938	0.04	-0.04	0.01
MONTH TO DATE	T				0.08	-0.08	0.01
SINCE OCT 1	2.22				4.30	-2.08	6.74
SINCE JAN 1	1.14				2.20	-1.06	2.65

SNOWFALL (IN)

YESTERDAY	0.0		MM	MM	MM	MM	T
MONTH TO DATE	0.0				MM	MM	T
SINCE MAR 1	0.0				MM	MM	T
SINCE JUL 1	8.2				MM	MM	14.3
SNOW DEPTH	0						

DEGREE DAYS

HEATING

YESTERDAY	28			24	4	25
MONTH TO DATE	62			48	14	45
SINCE MAR 1	62			48	14	45
SINCE JUL 1	3768			4087	-319	3364

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE MAR 1	0	0	0	0
SINCE JAN 1	0	0	0	0

WIND (MPH)

RESULTANT WIND SPEED	1	RESULTANT WIND DIRECTION	E (100)
HIGHEST WIND SPEED	10	HIGHEST WIND DIRECTION	NE (40)
HIGHEST GUST SPEED	14	HIGHEST GUST DIRECTION	NW (300)
AVERAGE WIND SPEED	3.8		

SKY COVER

POSSIBLE SUNSHINE	MM
AVERAGE SKY COVER	MM

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
 NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT)

HIGHEST	74	300 AM
LOWEST	31	400 PM
AVERAGE	53	

THE RENO TAHOE AIRPORT CLIMATE NORMALS FOR TODAY

	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	55	71	1931
			1910
MINIMUM TEMPERATURE (F)	28	5	1951

SUNRISE AND SUNSET

MARCH 3 2007.....	SUNRISE	629 AM PST	SUNSET	553 PM PST
MARCH 4 2007.....	SUNRISE	628 AM PST	SUNSET	554 PM PST

- INDICATES NEGATIVE NUMBERS.
- R INDICATES RECORD WAS SET OR TIED.
- MM INDICATES DATA IS MISSING.
- T INDICATES TRACE AMOUNT.

PRELIMINARY CLIMATOLOGICAL DATA		
(KRNO)		
RNOCF6RNO	KREV	CXUS55
WMO Header	CXUS55 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Preliminary Local Climatological Data (WS Form: F-6)	
Issuance Time	Around 1am	
Valid Time	N/A	

Description:

Daily weather statistics from the Reno-Tahoe International Airport for the month, including temperatures, precipitation, degree days, wind and sky cover. In addition, monthly statistics such as average temperatures and departures from normal, degree days, and rainfall are also included.

CXUS55 KREV 010850

CF6RNO

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: RENO TAHOE AIRPORT

MONTH: FEBRUARY

YEAR: 2007

LATITUDE: 39 30 N

LONGITUDE: 119 47 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	54	17	36	0	29	0	0.00	0.0	0	2.7	17	20	M	M	M	8	20	20
2	47	16	32	-4	33	0	0.00	0.0	0	1.4	8	280	M	M	M		14	290
3	60	21	41	5	24	0	0.00	0.0	0	1.2	7	10	M	M	M		9	250
4	63	25	44	7	21	0	0.00	0.0	0	2.7	15	80	M	M	M		17	80
5	60	28	44	7	21	0	0.00	0.0	0	0.8	8	160	M	M	M	8	12	290
6	69	28	49	12	16	0	0.00	0.0	0	3.9	23	200	M	M	M	8	26	200
7	54	39	47	10	18	0	T	0.0	0	4.6	20	260	M	M	M	8	24	260
8	55	35	45	8	20	0	0.01	0.0	0	8.2	25	180	M	M	M		30	180
9	52	39	46	8	19	0	0.05	0.0	0	4.3	22	150	M	M	M	8	25	130
10	52	38	45	7	20	0	0.44	0.0	0	5.2	28	190	M	M	M	1	36	190
11	52	33	43	5	22	0	0.08	0.0	0	7.9	25	300	M	M	M	1	31	300
12	49	28	39	1	26	0	0.00	0.0	0	3.2	22	290	M	M	M		24	290
13	48	29	39	1	26	0	T	0.0	0	4.6	14	360	M	M	M	8	16	360
14	51	25	38	0	27	0	0.00	0.0	0	3.5	13	340	M	M	M	8	14	330
15	60	35	48	9	17	0	0.01	0.0	0	3.9	22	320	M	M	M		28	350
16	59	33	46	7	19	0	0.00	0.0	0	3.9	13	320	M	M	M		16	310
17	63	32	48	9	17	0	0.00	0.0	0	3.0	14	80	M	M	M		16	100
18	57	34	46	7	19	0	0.03	0.3	0	7.6	22	360	M	M	M	1	28	250
19	47	26	37	-2	28	0	0.00	0.0	0	4.2	16	330	M	M	M		20	330
20	60	24	42	2	23	0	0.00	0.0	0	7.1	29	170	M	M	M		35	160
21	62	36	49	9	16	0	0.00	0.0	0	16.4	32	170	M	M	M		38	180
22	47	28	38	-2	27	0	T	T	0	16.8	38	210	M	M	M		47	210
23	41	24	33	-7	32	0	T	T	0	8.4	22	300	M	M	M	1	28	300
24	50	25	38	-2	27	0	T	0.0	0	10.0	31	180	M	M	M		35	180
25	44	32	38	-2	27	0	0.03	T	0	11.5	29	290	M	M	M	8	37	290
26	44	29	37	-3	28	0	0.35	3.7	0	8.1	25	260	M	M	M	189	31	260
27	40	20	30	-11	35	0	0.01	0.1	3	6.7	20	190	M	M	M	1	22	190
28	39	26	33	-8	32	0	T	0.0	0	9.4	26	270	M	M	M		31	270

```

=====
SM 1479 805          669  0  1.01    4.1 171.2          M      M
=====
AV 52.8 28.8                6.1 FASTST PSBL %  0    MAX(MPH)
                               MISC ----> # 38 210                # 47 210
=====

```

NOTES:
LAST OF SEVERAL OCCURRENCES
COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: RENO TAHOE AIRPORT
MONTH: FEBRUARY
YEAR: 2007
LATITUDE: 39 30 N
LONGITUDE: 119 47 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 40.8	TOTAL FOR MONTH: 1.01	1 = FOG OR MIST
DPTR FM NORMAL: 2.3	DPTR FM NORMAL: -0.05	2 = FOG REDUCING VISIBILITY
HIGHEST: 69 ON 6	GRTST 24HR 0.52 ON 10-11	TO 1/4 MILE OR LESS
LOWEST: 16 ON 2		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: 4.1 INCHES	5 = HAIL
	GRTST 24HR 3.7 ON M	6 = FREEZING RAIN OR DRIZZLE
	GRTST DEPTH: 3 ON 27	7 = DUSTSTORM OR SANDSTORM:
		VSBY 1/2 MILE OR LESS
		8 = SMOKE OR HAZE
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	9 = BLOWING SNOW
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 9	X = TORNADO
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 2	
MIN 32 OR BELOW: 19	0.50 INCH OR MORE: 0	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0	
[HDD (BASE 65)]		
TOTAL THIS MO. 669	CLEAR (SCALE 0-3) 0	
DPTR FM NORMAL -87	PTCLDY (SCALE 4-7) 0	
TOTAL FM JUL 1 3706	CLOUDY (SCALE 8-10) 0	
DPTR FM NORMAL -333		
[CDD (BASE 65)]		
TOTAL THIS MO. 0		
DPTR FM NORMAL 0	[PRESSURE DATA]	
TOTAL FM JAN 1 0	HIGHEST SLP M ON M	
DPTR FM NORMAL 0	LOWEST SLP M ON M	

MONTHLY CLIMATE REPORT (KRNO)		
RNOCLMRNO	KREV	CXUS55
WMO Header	CXUS55 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Climate Report	
Issuance Time	The 1 st of every month	
Valid Time	N/A	

Description:

The Monthly Climate Report gives an overview of the past month's weather in Reno, NV from the Reno-Tahoe International Airport. It includes temperature, precipitation, degree days, pressure, wind and sky cover data. Normal values and departures from normal are also included.

CXUS55 KREV 011131

CLMRNO

RNOCLMRNO 000

TTAA00 KREV 011127

CLIMATE REPORT

NATIONAL WEATHER SERVICE RENO NV

326 AM PST THU FEB 1 2007

.....

...THE RENO TAHOE AIRPORT CLIMATE SUMMARY FOR THE MONTH OF JANUARY 2007...

TWO FRONTAL SYSTEMS MOVED THROUGH NORTHERN NEVADA IN EARLY JANUARY BRINGING A MIXTURE OF LIGHT RAIN, SNOW AND WINDY CONDITIONS TO THE RENO AREA. ICY ROADS WERE REPORTED IN THE RENO AREA DUE TO RAIN THAT FELL THEN FROZE ON ROADWAYS AS TEMPERATURES DROPPED. LIGHT SNOW FELL ON TOP OF THE ICY ROADS THUS COMPLICATING THE ALREADY DIFFICULT TRAVEL CONDITIONS.

THE REST OF JANUARY WAS DOMINATED BY HIGH PRESSURE PRODUCING COLD DRY CONDITIONS WITH HAZY AFTERNOONS. JANUARY 2007 HAD ONE OF THE LOWEST PRECIPITATION AND SNOWFALL AMOUNTS SEEN IN MANY YEARS.

PRECIPITATION FOR THE MONTH WAS 0.13 INCH(ES) WHICH IS 0.93 INCH(ES) BELOW NORMAL. TEMPERATURES FOR JANUARY WERE SLIGHTLY BELOW NORMAL AND RANGED FROM A LOW OF 5 DEGREES TO A HIGH OF 60 DEGREES. THE AVERAGE MONTHLY TEMPERATURE WAS 31.2 DEGREES WHICH IS 2.4 DEGREES BELOW NORMAL.

CLIMATE NORMAL PERIOD 1971 TO 2000

CLIMATE RECORD PERIOD 1888 TO 2006

WEATHER	OBSERVED		NORMAL	DEPART	LAST YEAR`S	
	VALUE	DATE(S)			VALUE	FROM
				NORMAL		

.....

TEMPERATURE (F)

RECORD

HIGH	71	01/31/2003				
LOW	-19	01/08/1890				
HIGHEST	60	01/03	70	-10	62	01/13
LOWEST	5	01/13	-19	24	20	01/20
AVG. MAXIMUM	44.5		45.5	-1.0	48.2	
AVG. MINIMUM	17.9		21.8	-3.9	27.5	
MEAN	31.2		33.6	-2.4	37.8	
DAYS MAX >= 90	0		0.0	0.0	0	

DAYS MAX <= 32	4	0.0	4.0	0
DAYS MIN <= 32	31	31.0	0.0	26
DAYS MIN <= 0	0	0.0	0.0	0

PRECIPITATION (INCHES)

RECORD

MAXIMUM	6.76	1916			
MINIMUM	0.00	1872			
TOTALS	0.13		1.06	-0.93	1.60
DAILY AVG.	0.00		0.03	-0.03	0.05
DAYS >= .01	2		31.0	-29.0	6
DAYS >= .10	0		0.0	0.0	3
DAYS >= .50	0		0.0	0.0	1
DAYS >= 1.00	0		0.0	0.0	1

GREATEST

24 HR. TOTAL	0.09	MM		12/31 TO 01/01
STORM TOTAL		MM		MM
(MM/DD(HH))		MM		MM

SNOWFALL (INCHES)

RECORDS

TOTAL	MM	MM	
TOTALS	1.7		5.2

DEGREE_DAYS

HEATING TOTAL	1039	984	55	833
SINCE 7/1	3037	3283	-246	2602
COOLING TOTAL	0	0	0	0
SINCE 1/1	0	0	0	0

FREEZE DATES

RECORD

EARLIEST	MM	
LATEST	MM	
EARLIEST		MM
LATEST		MM

WIND (MPH)

AVERAGE WIND SPEED	3.6	
RESULTANT WIND SPEED/DIRECTION	1/036	
HIGHEST WIND SPEED/DIRECTION	33/180	DATE 01/03
HIGHEST GUST SPEED/DIRECTION	44/200	DATE 01/03

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	1
LIGHT RAIN	1	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	1	SNOW	1
LIGHT SNOW	3	SLEET	0
FOG	6	FOG W/VIS <= 1/4 MILE	0
HAZE	14		

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.

Hourly Weather Roundup		
RNORWRNV	KREV	ASUS45
WMO Header	ASUS45 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Nevada Regional Weather Roundup	
Issuance Time	Every Hour	
Valid Time	1 Hour	

Description:

The Hourly Weather Roundup is a text product which gives hourly weather for all of Nevada and the Northern and Central Sierra. It includes the following weather elements: sky/weather, temperature, dew point, relative humidity, wind, pressure, and remarks.

ASUS45 KREV 291410

RWRNV
 NEVADA REGIONAL WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE RENO NV
 700 AM PDT THU MAR 29 2007

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

NVZ001-003-004-291500-
 WESTERN NEVADA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
RENO	PTCLDY	28	18	66	CALM	30.37R	
MINDEN	CLEAR	18	16	93	CALM	30.38R	
SLIDE MTN	N/A	19	7	58	NE32	N/A	WCI 0
PYRAMID LAKE	N/A	39	N/A	N/A	NW2	N/A	
FALLON	PTCLDY	26	12	55	SW6	30.37R	
LOVELOCK	CLEAR	36	17	46	N10	30.37R	

NVZ002-CAZ072-073-291500-
 NORTHERN AND CENTRAL SIERRA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
S. LAKE TAHOE	PTCLDY	16	13	88	S6	30.31R	
TRUCKEE	CLEAR	16	12	86	CALM	30.34	
SQUAW VLY 8000	N/A	27	N/A	N/A	E6G12	N/A	
BLUE CANYON	PTCLDY	38	11	32	VRB6	30.25S	

NVZ030-031-036-291500-
 NORTHERN NEVADA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ELKO	CLEAR	26	21	81	NE5	30.30R	
WINNEMUCCA	CLEAR	28	18	66	NW9	30.37R	

NVZ035-037-291500-
CENTRAL NEVADA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ELY	CLOUDY	26	15	63	NW14	30.22R	
EUREKA	N/A	16	11	80	S6	30.28R	

NVZ013-014-291500-
SOUTH CENTRAL NEVADA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
TONOPAH	CLEAR	34	17	50	N16G26	30.26R	

NVZ017-020-022-291500-
SOUTHERN NEVADA

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
LAS VEGAS	PTCLDY	53	24	32	N17G30	30.13R	
N. LAS VEGAS	CLEAR	51	24	34	N15G23	30.14R	
NELLIS AFB	MOCLDY	46	23	39	CALM	30.14R	
MERCURY	PTCLDY	38	21	50	VRB6	30.18R	

<u>Morning and Evening Temperature and Precipitation Summary</u>		
RNORTPREV	KREV	ASUS65
WMO Header	ASUS65 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Regional Temperature and Precipitation Table	
Issuance Time	Approximately 1130a and 530p	
Valid Time	N/A	

Description:

The temperature and precipitation summary contains maximum and minimum temperatures, 24 hour precipitation, 24 hour snow fall and snow depth at sites through the county warning area.

ASUS65 KREV 280030

RTPREV

:REGIONAL TEMPERATURE AND PRECIPITATION TABLE
 :NATIONAL WEATHER SERVICE RENO NV
 :530 PM PDT TUE MAR 27 2007

.B RNO 0328 Z DH00/TX/TN/PPD/SF/SD
 :ASOS OBSERVATION SITES AND FULL TIME STATIONS
 :HIGH TEMPERATURE TODAY
 :LOW TEMPERATURE THIS MORNING
 :24 HOUR PRECIPITATION ENDING 400 PM PDT

:ID	STATION	HIGH	LOW	PCPN	SNOW	DEPTH
NFL	: FALLON	: 48 /	32 /	T /	/	/
LOL	: LOVELOCK	: 50 /	26 /	0.02 /	/	/
MKEC1	: MARKLEEVILLE CA	: 45 /	23 /	0.49 /	/	/
RNO	: RENO...AIRPORT	: 41 /	26 /	T /	T /	0
REV	: RENO...NORTH HILLS	: 37 /	22 /	0.10 /	1.0 /	0
TVL	: SOUTH LK TAHOE ARPT CA	: 31 /	20 /	0.90 /	/	/
HICC1	: SQUAW VALLEY 8K FT CA	: 18 /	13 /	/	/	/
STAN2	: STATELINE	: 33 /	21 /	/	/	/

:M MISSING

:BLANK NOT REPORTED AT THIS STATION

:COOPERATIVE OBSERVATION SITES REPORTING THIS AFTERNOON

:THE FOLLOWING OBSERVATIONS WERE TAKEN AT APPROXIMATELY 500 PM PDT
 :THIS AFTERNOON. HIGH AND LOW TEMPERATURES AND 24 HOUR PRECIPITATION AMOUNTS
 :IN THE PREVIOUS 24 HOURS WERE RECORDED AT THAT TIME. HIGH TEMPERATURES MAY
 :REFLECT CONDITIONS FROM YESTERDAY AFTERNOON.

:

.B RNO 0328 Z DH23/TX/TN/PPD/SF/SD

:ID	STATION	HIGH	LOW	PCPN	SNOW	DEPTH
BDEC1	: BODIE CALIF ST PK CA	: 45 /	8 /	0.14 /	1 /	1
CRCN2	: CARSON CITY	: 50 /	24 /	0.30 /	2 /	1
DAGN2	: DAGGET PASS	: 23 /	16 /	0.57 /	10 /	10
FRNN2	: FERNLEY	: 43 /	30 /	T /	0.5 /	0
GLBN2	: GLENBROOK	: 32 /	20 /	0.78 /	12 /	9
HTHN2	: HAWTHORNE	: 45 /	30 /	0 /	0 /	0
MALC1	: MAMMOTH LAKES CA	: 26 /	16 /	0.63 /	8 /	8
SPSN2	: SPANISH SPRINGS	: 41 /	25 /	0.07 /	1 /	T
SRKN2	: SPARKS..NORTH CENTRAL	: 43 /	25 /	0.05 /	1 /	0

CSVN2	:	RENO...COLD SRINGS VLY	:	M /	23 /	0.46 /	3.0 /	2
STDN2	:	STEAD	:	37 /	22 /	0.20 /	1 /	0
SNVC1	:	SUSANVILLE CA	:	M /	27 /	0.41 /	1 /	1
Q67	:	TAHOE CITY CG CA	:	M /	19 /	M /	10 /	10
TRK	:	TRUCKEE AIRPORT CA	:	30 /	21 /	0.69 /	7 /	7
VRCN2	:	VIRGINIA CITY	:	32 /	18 /	M /	2 /	2
YRGN2	:	YERINGTON	:	M /	27 /	T /	T /	0
WLTN2	:	WELLINGTON	:	42 /	23 /	0.09 /	1 /	1

:M MISSING

:BLANK NOT REPORTED AT THIS STATION

:

.END

State Temperature and Precipitation Summary		
RNORTPNV	KREV	ASUS65
WMO Header	ASUS65 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	State Temperature and Precipitation Table	
Issuance Time	Approximately 530a and 530p	
Valid Time	N/A	

Description:

The state temperature and precipitation summary contains maximum and minimum temperatures, 24 hour precipitation, 24 hour snow fall and snow depth at ASOS (Automated Surface Observing Station) sites through the state of Nevada.

ASUS65 KREV 281213
RTPNV

:NEVADA TEMPERATURE AND PRECIPITATION TABLE
:NATIONAL WEATHER SERVICE RENO NV
:513 AM PDT WED MAR 28 2007

:ASOS OBSERVATION SITES
:HIGH TEMPERATURE YESTERDAY
:LOW TEMPERATURE THIS MORNING
:24 HOUR PRECIPITATION ENDING 400 AM PDT

.BR RNO 0328 Z DH12/TX/TN/PPD/SF/SD

:ID	STATION	HIGH	LOW	PCPN	SNOW	DEPTH
EKO	: ELKO .	: 33 /	29 /	0.11 /	/	/
ELY	: ELY .	: 31 /	23 /	0.20 /	/	/
P68	: EUREKA .	: 30 /	26 /	0.27 /	/	/
NFL	: FALLON .	: 48 /	37 /	T /	/	/
LAS	: LAS VEGAS	: 59 /	47 /	T /	/	/
LOL	: LOVELOCK	: 50 /	38 /	T /	/	/
DRA	: MERCURY/DESERT ROCK	: 55 /	34 /	T /	/	/
RNO	: RENO...AIRPORT	: 41 /	32 /	T /	T /	0
TVL	: SOUTH LK TAHOE ARPT CA	: 31 /	22 /	0.27 /	/	/
TPH	: TONOPAH AIRPORT	: 39 /	28 /	T /	/	/
WMC	: WINNEMUCCA	: 45 /	32 /	0.03 /	/	/

:M MISSING

:BLANK NOT REPORTED AT THIS STATION

.END

Public Information Statement		
RNOPNSREV	KREV	NOUS45
WMO Header	NOUS45 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Public Information Statement	
Issuance Time	As needed.	
Valid Time	N/A	

Description:

The Public Information Statement is a text product which is issued to inform the public about certain important information which may or may not be weather related. This information can range from NOAA weather radio outages to forest fires making the sky hazy to record setting events.

NOUS45 KREV 252205
PNSREV

PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE RENO NV
310 PM PDT SAT AUG 25 2007

...CURRENT DRY SPELL IS THE TENTH LONGEST IN RENO HISTORY...

THE SUMMER OF 2007 CONTINUES TO BE ONE OF THE DRIEST SUMMERS ON RECORD IN RENO. IN FACT...THE LAST TIME MEASURABLE PRECIPITATION OCCURRED AT THE RENO-TAHOE INTERNATIONAL AIRPORT WAS ON JUNE 5TH WHEN 0.05 INCH OF RAIN WAS RECORDED. NO RAIN HAS FALLEN IN JULY AND AUGUST.

THROUGH FRIDAY...AUGUST 24TH...THERE HAVE BEEN 80 CONSECUTIVE DAYS WITHOUT MEASURABLE RAINFALL. THIS IS NOW THE 10TH LONGEST PERIOD IN RENO HISTORY...SINCE 1906...WITHOUT PRECIPITATION. THE BEST CHANCE FOR RAINFALL IN RENO IS ON TUESDAY AUGUST 28TH.

THE FOLLOWING IS A LIST OF THE TEN LONGEST PERIODS OF CONSECUTIVE DAYS WITHOUT MEASURABLE PRECIPITATION (0.01 INCH OR GREATER).

INCLUSIVE DATES	DAYS
1. JULY 19 - NOV. 24, 1995	129
2. JULY 27 - NOV. 14, 1954	111
3. JUNE 21 - OCT. 3, 1993	105
4. JULY 2 - OCT. 7, 1943	97
5. JUNE 29 - SEPT. 30, 1926	95
6. MAY 29 - AUG. 28, 1919	91
7. MAY 17 - AUG. 8, 1930	84
JULY 2 - SEPT. 24, 1932	84
SEPT. 19 - DEC. 11, 1959	84
10. JUNE 6 - AUG. 24, 2007	80

O`HARA

HTTP://WEATHER.GOV/RENO

<u>Record Event Report</u>		
RNORERREV	KREV	SXUS75
WMO Header	SXUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Record Event Report	
Issuance Time	As needed.	
Valid Time	N/A	

Description:

The Record Event Report is sent out when any record is tied or broken at one of the NWS offices or a site where the NWS has sufficient climatological records to establish a record (at least 30 years). This would include record highs/lowes and record rain or snowfall. A Record Event Report will state what type of record has been broken, what the old record was, and what the new record is.

SXUS75 KREV 250100
RERREV

RECORD EVENT REPORT
NATIONAL WEATHER SERVICE RENO NV
0558 PM PDT SAT MAR 24 2007

...RECORD HIGH TEMPERATURE SET AT RENO TAHOE AIRPORT...

A RECORD HIGH TEMPERATURE OF 75 DEGREES WAS SET AT THE RENO TAHOE INTERNATIONAL AIRPORT TODAY. THIS TIES THE OLD RECORD OF 75 SET IN 1960.

\$\$

SMM

Local Storm Report		
RNOLSRREV	KREV	NWUS55
WMO Header	NWUS55 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	Public Information Statement	
Issuance Time	As needed.	
Valid Time	N/A	

Description:

Local Storm Report (LSR) products are used to relay information on severe or other significant storm events to the media, emergency managers, and other NWS offices. LSR is used for both summer severe weather events and winter weather events.

NWUS55 KREV 221541 CCB
LSRREV

PRELIMINARY LOCAL STORM REPORT...CORRECTED TO ADD LATE REPORT
NATIONAL WEATHER SERVICE RENO NV
839 AM PDT SAT JUL 22 2006

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		

0623 PM	HAIL	6 ESE GARDNERVILLE	38.92N 119.62W
07/21/2006	E0.25 INCH	DOUGLAS NV	TRAINED SPOTTER

PEA SIZE FELL WITH HEAVY RAIN IN A 30 MINUTE PERIOD.
MINOR RUNOFF ON THE STREET.

0635 PM	HEAVY RAIN	4 S GARDNERVILLE	38.89N 119.74W
07/21/2006	M0.25 INCH	DOUGLAS NV	TRAINED SPOTTER

HEAVY RAIN IN 10 MINUTES.

0739 PM	HEAVY RAIN	4 WSW INCLINE VILLAGE	39.24N 120.03W
07/21/2006	M0.25 INCH	PLACER CA	TRAINED SPOTTER

HEAVY RAIN IN 10 MINUTES.

0748 PM	HEAVY RAIN	GLENBROOK	39.09N 119.94W
07/21/2006	M0.20 INCH	DOUGLAS NV	CO-OP OBSERVER

HEAVY RAIN MEASURED 0.20 IN 10 MINUTES. HEAVY RAIN
REPORTED.

0800 PM	HEAVY RAIN	5 E DAYTON	39.24N 119.49W
07/21/2006	U0.00 INCH	LYON NV	TRAINED SPOTTER

CONTINUOUS LIGHTNING - RAINING HEAVY LAST 10 MINUTES WITH
QUARTER SIZE DROPS

0820 PM	HEAVY RAIN	LOCKWOOD	39.51N 119.65W
07/21/2006	U0.00 INCH	WASHOE NV	LAW ENFORCEMENT

STANDING WATER FROM HEAVY RAIN ON INTERSTATE 80 FROM
LOCKWOOD TO MUSTANG

NWUS55 KREV 032116
LSRREV

PRELIMINARY LOCAL STORM REPORT...SUMMARY
NATIONAL WEATHER SERVICE RENO NV
116 PM PST TUE JAN 03 2006

..TIME... ..EVENT... ..CITY LOCATION... ..LAT.LON...
..DATE... ..MAG.... ..COUNTY LOCATION..ST.. ..SOURCE....
..REMARKS..

0500 AM HEAVY SNOW KIRKWOOD 38.70N 120.07W
01/03/2006 54.0 INCH EL DORADO CA PUBLIC

SKI AREA STORM TOTAL 36-54 INCHES.

0530 AM HEAVY SNOW ALPINE MEADOWS 39.17N 120.22W
01/03/2006 30.0 INCH PLACER CA PUBLIC

SKI AREA STORM TOTAL. 30 INCHES AT 8600 FT. 23 INCHES AT
6800 FT.

0530 AM HEAVY SNOW DONNER SUMMIT 39.33N 120.39W
01/03/2006 30.0 INCH NEVADA CA PUBLIC

STORM TOTAL 23 TO 30 INCHES.

0547 AM HEAVY SNOW SIERRA-AT-TAHOE SKI ARE 38.80N 120.08W
01/03/2006 50.0 INCH EL DORADO CA PUBLIC

STORM TOTAL 50 INCHES AT 8850 FT. 17 INCHES AT 6640 FT.

0600 AM HEAVY SNOW 3 SE SODA SPRINGS 39.29N 120.34W
01/03/2006 28.0 INCH PLACER CA TRAINED SPOTTER

STORM TOTAL AT SUGAR BOWL SKI AREA. 28 INCHES AT 8400 FT.
16 INCHES AT 6900 FT.

0645 AM HEAVY SNOW HEAVENLY VALLEY 38.96N 119.89W
01/03/2006 40.0 INCH DOUGLAS NV PUBLIC

SKI AREA STORM TOTAL 36-40 INCHES.

0700 AM HEAVY SNOW SQUAW VALLEY 39.20N 120.22W
01/03/2006 30.0 INCH PLACER CA PUBLIC

16-30 INCHES STORM TOTAL.

0706 AM HEAVY SNOW MAMMOTH MOUNTAIN 37.65N 119.03W
01/03/2006 95.0 INCH MONO CA PUBLIC

90-95 INCH SKI AREA STORM TOTAL AT 9000 FT. 6.29 INCHES
WATER EQUIVALENT IN 36 HOURS.

0724 AM HEAVY SNOW MOUNT ROSE SKI AREA 39.33N 119.89W
01/03/2006 30.0 INCH WASHOE NV PUBLIC

STORM TOTAL 24-30 INCHES.

Free Text Message		
RNOFTMRGX	KREV	NOUS63
WMO Header	NWUS55 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	N/A	
Issuance Time	As needed.	
Valid Time	N/A	

Description:

The Radar Free Text Message notifies users of radar outages that are planned because of maintenance. Another notification message is sent when the radar is restored to operational status.

NOUS65 KREV 011837

FTMRGX

KRGX WILL BE DOWN FOR ROUTINE MAINTANENCE TODAY UNTIL APPROXIMATELY 22Z. WFO RENO. SM.

NOUS65 KREV 282022

FTMRGX

KRGX IS BACK IN SERVICE AFTER ROUTINE MAINTANENCE. 2021Z. WFO RENO. SM

Civil Emergency Message		
RNOCEMREV	KREV	WOUS45
WMO Header	WOUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Civil Emergency Message	
Issuance Time	As needed	
Valid Time	12 Hours	

Description:

The Civil Emergency Message is initiated by local, state, county or law enforcement officials to inform the public of avalanches, toxic and or chemical releases, air pollution events, a nuclear accident or any weather events related public impacts such as evacuations due to flooding.

WOUS45 KREV 102236

CEMREV

CAZ073-112223-

BULLETIN - EAS ACTIVATION REQUESTED

CIVIL EMERGENCY MESSAGE

MONO COUNTY OFFICE OF EMERGENCY SERVICES

RELAYED BY NATIONAL WEATHER SERVICE RENO NV

235 PM PST MON JAN 10 2005

AN AVALANCHE WARNING HAS BEEN ISSUED FOR MONO COUNTY AVALANCHE PRONE AREAS OF JUNE LAKE, MCGEE CREEK AND SWALL MEADOWS.

THE MONO COUNTY OFFICE OF EMERGENCY SERVICES HAS ISSUED AN AVALANCHE WARNING FOR THE AVALANCHE PRONE AREAS OF MONO COUNTY. AVALANCHE DANGER IS EXTREMELY HIGH. A MONO COUNTY SHERIFF'S DEPARTMENT OVER THE SNOW VEHICLE WAS STRUCK BY AN AVALANCHE ON THE BACK SIDE OF TWIN LAKES, BRIDGEPORT AT 1114 HOURS TODAY. SHERIFFS DEPUTIES IN THE VEHICLE WERE UNINJURED AND ABLE TO DIG THEIR WAY OUT OF THE AVALANCHE.

THE DEPUTIES WERE ATTEMPTING TO REMOVE RESIDENTS IN THE AREA TO SAFER LOCATIONS. RESIDENTS WHO LIVE IN THE AVALANCHE PRONE AREAS ARE REQUESTED TO EVACUATED TO A SAFER LOCATION UNTIL CONDITIONS IMPROVE. SHELTERS ARE AVAILABLE FOR PERSONS WHO ARE DISPLACED BY EVACUATION.

<u>Preliminary Earthquake Report</u>		
RNOEQRREV	KREV	SEUS65
WMO Header	SEUS65 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Preliminary Earthquake Report	
Issuance Time	As needed	
Valid Time	N/A	

Description:

A Preliminary earthquake report will be issued if an earthquake is felt in the area. Updated information will be issued once the intensity of the earthquake is known.

SEUS65 KREV 262134 AAA
 EQRREV
 CAC003-017-057-061-091-NVC005-031-510-270300

EARTHQUAKE REPORT...PRELIMINARY
 NATIONAL WEATHER SERVICE RENO NV
 235PM PDT SUN JUN 26 2005

A LIGHT EARTHQUAKE WAS REPORTED IN NORTHEAST CALIFORNIA AT 11:45:57 AM PDT TODAY. PRELIMINARY DATA FROM USGS SHOWED A MAGNITUDE OF 4.8 THE EARTHQUAKE WAS CENTERED 8 MILES EAST SOUTHEAST OF TRUCKEE CALIFORNIA...OR 20 MILES SOUTHWEST OF RENO NV.

THE EARTHQUAKE WAS FELT MODERATELY BY SEVERAL PEOPLE IN THE RENO NEVADA AREA AND AROUND LAKE TAHOE. NO REPORTS OF DAMAGE OR INJURIES HAVE BEEN REPORTED.

THE EARTHQUAKE WAS FELT MODERATELY AT THE RENO NEVADA WEATHER FORECAST OFFICE.

INFORMATION IN THIS STATEMENT IS PRELIMINARY. UPDATES WILL BE ISSUED IF ADDITIONAL INFORMATION IS RECEIVED.

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<u>Child Abduction Emergency – Amber Alert</u>		
RNOCAEREV	KREV	NZUS45
WMO Header	NZUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Amber - Alert	
Issuance Time	As needed	
Valid Time	N/A	

Description:

The Child Abduction Emergency Message or Amber Alert is used by law enforcement to advise the public of a child abduction. Information contained within the Amber Alert will detail the child, the abductor and any other specific information pertaining to the abduction.

Hazardous Weather Outlook		
RNOHWOREV	KREV	FLUS45
WMO Header	FLUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Hazardous Weather Outlook	
Issuance Time	Daily around 6a, and updated when needed	
Valid Time	24 hours, or until updated	

Description:

The Hazardous Weather Outlook (HWO) is used to alert users (media, emergency management and the public) of potential winter weather, severe weather, fire weather, non-precipitation or flood hazards that may occur within the next 7 days. It is designed to be a “heads up” to expected hazardous weather and its potential impact. The hazards that are included in the products include any current advisory, watch or warning in days one through seven (with the exception of short term events like severe thunderstorms or tornadoes and flash flooding). The first section will be for Day One, and the second section for Day 2 through Day 7. A spotter activation summary is also included.

FLUS45 KREV 110735
HWOREV

HAZARDOUS WEATHER OUTLOOK
NATIONAL WEATHER SERVICE RENO NV
300 AM PDT WED JUL 11 2007

CAZ070>073-NVZ001>005-120700-
SURPRISE VALLEY CALIFORNIA-LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-GREATER
LAKE TAHOE AREA-MONO-MINERAL AND SOUTHERN LYON COUNTIES-GREATER RENO-CARSON CITY-
MINDEN AREA-WESTERN NEVADA BASIN AND RANGE INCLUDING PYRAMID LAKE- NORTHERN WASHOE
COUNTY-

300 AM PDT WED JUL 11 2007

THIS HAZARDOUS WEATHER OUTLOOK IS FOR THE EASTERN SIERRA...NORTHEAST CALIFORNIA
AND WESTERN NEVADA.

.DAY ONE...TODAY AND TONIGHT

AN UPPER LOW PRESSURE SYSTEM OFF THE CENTRAL CALIFORNIA COAST AND HIGH PRESSURE
CENTERED NEAR THE FOUR CORNERS REGION WILL COMBINE TO CONTINUE PULLING SUBTROPICAL
MOISTURE NORTHWARD INTO EASTERN CALIFORNIA AND WESTERN NEVADA TODAY. AN UPPER
LEVEL DISTURBANCE MOVING NORTHWARD ACROSS THE REGION TODAY WILL PROVIDE LARGE
SCALE FORCING AND GENERATE SCATTERED SHOWERS AND THUNDERSTORMS AGAIN. AMPLE
MOISTURE AND AVAILABLE ENERGY MAY PRODUCE LOCALLY HEAVY RAINFALL AND STRONG
DOWNBURST WINDS THROUGH WEDNESDAY EVENING.

SEE THE LATEST FLASH FLOOD WATCH /WGUS65 KREV FFAREV/ FOR MORE DETAILED
INFORMATION.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

HIGH PRESSURE WILL BEGIN TO BUILD INTO THE AREA THURSDAY AND CONTINUE TO DOMINATE
THE REGION THROUGH THE WEEKEND DECREASING THUNDERSTORM ACTIVITY. TEMPERATURES WILL
REMAIN SLIGHTLY ABOVE NORMAL.

.SPOTTER INFORMATION STATEMENT...

WEATHER SPOTTERS ARE ENCOURAGED TO REPORT ANY SIGNIFICANT WEATHER...INCLUDING HEAVY RAINFALL...STRONG THUNDERSTORM OUTFLOW WINDS AND FLASH FLOODING TO THE NATIONAL WEATHER SERVICE.

SKYWARN ACTIVATION WILL BE REQUIRED WEDNESDAY AFTERNOON AND EVENING AGAIN AS POTENTIALLY SEVERE WEATHER REMAINS A THREAT.

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SMM

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

NWS Reno Products and Media Guide

Summer Severe Weather Products:

- Tornado and Severe Thunderstorm Watch (RNOSELx)
- Watch Outline Update (RNOWOUREV)
- Watch County Notification (RNOWCNREV)
- Tornado Warning (RNOTORREV)
- Severe Thunderstorm Warning (RNOSVRREV)
- Severe Weather Statement (RNOSVSREV)

Severe Weather Watch (Thunderstorm & Tornado)		
RNOSELx	KWNS	WWUS20
WMO Header	WWUS20 KNWS DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Bulletin – Immediate Broadcast Requested Tornado/Severe Thunderstorm Watch Number X	
Issuance Time	As needed	
Valid Time	Until Watch Expires	

Description:

The Storm Prediction Center (SPC) in Norman, Oklahoma issues tornado and severe thunderstorm watches for the country. Each watch is assigned a number, with the numbering system restarting at one at the beginning of each new year. A watch means conditions are favorable for severe weather to occur and to be alert for any warnings issued by your local WFO office.

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 655
NWS STORM PREDICTION CENTER NORMAN OK
230 PM CDT MON AUG 27 2007

SEVERE THUNDERSTORM WATCH 655 IS IN EFFECT UNTIL 1000 PM CDT
FOR THE FOLLOWING LOCATIONS

MNC001-005-007-021-027-029-035-041-051-057-061-071-087-097-107-
111-119-125-153-159-167-280300-
/O.NEW.KWNS.SV.A.0655.070827T1930Z-070828T0300Z/

MN

. MINNESOTA COUNTIES INCLUDED ARE

AITKIN	BECKER	BELTRAMI
CASS	CLAY	CLEARWATER
CROW WING	DOUGLAS	GRANT
HUBBARD	ITASCA	KOOCHICHING
MAHNOMEN	MORRISON	NORMAN
OTTER TAIL	POLK	RED LAKE
TODD	WADENA	WILKIN

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<u>Watch Outline Update</u>		
RNOWOUx	KWNS	WOUS64
WMO Header	WOUS64 KNWS DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Bulletin – Immediate Broadcast Requested Tornado/Severe Thunderstorm Watch Outline Update	
Issuance Time	As needed	
Valid Time	Until Watch Expires	

Description:

The Watch Outline Update (WOU) product is a product issued by the Storm Prediction Center (SPC) in Norman Oklahoma to outline all counties included in a certain numbered severe thunderstorm or tornado watch. This product is updated after the top of every hour for watches that are in effect.

<u>Watch County Notification</u>		
RNOWCNREV	KREV	WWUS65
WMO Header	WWUS65 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Watch County Notification for Watch Number XX	
Issuance Time	As needed	
Valid Time	Until Watch Expires	

Description:

The Watch County Notification (WCN) product is a product issued by WFO Reno. Once SPC issues the Watch Outline Update message (WOU), then WFO Reno will issue a WCN to outline counties in our forecast area in a tornado or severe thunderstorm watch. The WCN product is also issued to cancel, extend in time, or extend in area portions of a watch.

Tornado Warning		
RNOTORREV	KREV	WFUS55
WMO Header	WFUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Bulletin – EAS Activation Requested Tornado Warning	
Issuance Time	As needed	
Valid Time	Usually 15 – 60 minutes	

Description:

A Tornado Warning is issued when a tornado is imminent or occurring. Most warnings are issued based on radar depictions of velocity in storms while others are issued based on storm spotter reports.

WFUS55 KREV 050128
TORREV
NVC031-050200-

BULLETIN - EAS ACTIVATION REQUESTED
TORNADO WARNING
NATIONAL WEATHER SERVICE RENO NV
627 PM PDT MON AUG 4 2003

THE NATIONAL WEATHER SERVICE HAS ISSUED A

* TORNADO WARNING FOR...

CENTRAL WASHOE COUNTY IN WESTERN NEVADA

* UNTIL 700 PM PDT

* AT 625 PM PDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A
TORNADO OVER SOUTH CENTRAL WASHOE COUNTY...OR ABOUT 18 MILES EAST
OF CHILCOOT...MOVING NORTHWEST AT 15 MPH.

* THE TORNADO IS EXPECTED TO BE NEAR...

RURAL SOUTHWESTERN WASHOE COUNTY AT 640 PM PDT

IF NO SHELTER IS AVAILABLE...LIE FLAT IN THE NEAREST DITCH OR OTHER
LOW SPOT AND COVER YOUR HEAD WITH YOUR HANDS.

LAT...LON 4014 11993 4005 11985 3995 11973 3988 11965
3975 11982 3996 11993

Severe Thunderstorm Warning		
RNOSVRREV	KREV	WUUS55
WMO Header	WUUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Bulletin – EAS Activation Requested Severe Thunderstorm Warning	
Issuance Time	As needed	
Valid Time	Usually 15 – 60 minutes	

Description:

A Severe Thunderstorm warning is issued when severe weather is imminent or occurring. Warnings are issued based on radar or spotter reports. A Severe Thunderstorm is defined as a storm that produces 58 mph winds or greater and/or 3/4 inch hail or larger in diameter. Tornadoes can develop quickly in severe thunderstorms and may occur even though a Tornado Warning is not in effect.

WUUS55 KREV 170218
SVRREV
NVC001-170300-
/O.NEW.KREV.SV.W.0029.070717T0216Z-070717T0300Z/

BULLETIN - EAS ACTIVATION REQUESTED
SEVERE THUNDERSTORM WARNING
NATIONAL WEATHER SERVICE RENO NV
716 PM PDT MON JUL 16 2007

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A

* SEVERE THUNDERSTORM WARNING FOR...
WEST CENTRAL CHURCHILL COUNTY IN WEST CENTRAL NEVADA...
THIS INCLUDES THE CITY OF FALLON...

* UNTIL 800 PM PDT

* AT 715 PM PDT...NATIONAL WEATHER SERVICE DOPPLER RADAR INDICATED A
LINE OF SEVERE THUNDERSTORMS CAPABLE OF PRODUCING DAMAGING WINDS IN
EXCESS OF 60 MPH. THESE STORMS WERE LOCATED ALONG A LINE EXTENDING
FROM HAZEN TO FALLON..AND MOVING NORTH AT 25 MPH. ADDITIONAL
STRONG TO SEVERE STORMS WERE DEVELOPING NORTH OF US HIGHWAY 50.

* THESE SEVERE STORMS WILL PRIMARILY AFFECT AREAS ALONG AND NORTH OF
HIGHWAY 50 AND WEST OF US HIGHWAY 95 IN WESTERN CHURCHILL COUNTY.
TRAVELERS ON INTERSTATE 80 BETWEEN TRINITY JUNCTION AND FERNLEY
MAY ALSO BE AFFECTED BY THESE STORMS.

THESE STORMS WILL PRODUCE AREAS OF BLOWING DUST AND REDUCED
VISIBILITIES TO BELOW ONE MILE. SEEK SHELTER IMMEDIATELY INSIDE A
STURDY STRUCTURE AND STAY AWAY FROM WINDOWS.

LAT...LON 3949 11907 3940 11874 3981 11861 3992 11910

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CS

Severe Weather Statement		
RNOSVSREV	KREV	WWUS55
WMO Header	WUUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Severe Weather Statement	
Issuance Time	As needed	
Valid Time	Until the expiration time of the warning, or 15 minutes after the warning expiration or cancellation time.	

Description:

Severe Weather Statements (SVS) provide the public, media, and emergency managers with updated information on current tornado and severe thunderstorm warnings. Included is updated location and timing information and any storm reports. The goal is at least one statement while the warning is active. The SVS is also issued at the expiration of a warning or to cancel a warning early.

WWUS55 KREV 272134
SVSREV

SEVERE WEATHER STATEMENT
NATIONAL WEATHER SERVICE RENO NV
231 PM PDT MON AUG 27 2007

CAC051-272200-
/O.CON.KREV.SV.W.0030.000000T0000Z-070827T2200Z/
MONO CA-
231 PM PDT MON AUG 27 2007

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT UNTIL 300 PM PDT
FOR CENTRAL MONO COUNTY...

AT 225 PM PDT...NATIONAL WEATHER SERVICE DOPPLER RADAR CONTINUED TO
INDICATE A SEVERE THUNDERSTORM CAPABLE OF PRODUCING NICKEL SIZE HAIL
AND HEAVY RAIN. THIS STORM WAS LOCATED NEAR BODIE...MOVING NORTHEAST
AT 10 MPH.

HAIL UP TO THREE QUARTER INCH IN DIAMETER HAS BEEN REPORTED AT BODIE
STATE PARK WITH THIS STORM. LOCALIZED FLOODING WAS ALSO REPORTED. IF
YOU ARE IN THE PATH OF THE STORM...TAKE SHELTER UNTIL THE STORM HAS
PASSED. DO NOT DRIVE THROUGH WATER COVERED ROADS.

LAT...LON 3818 11891 3817 11891 3815 11896 3815 11904
3814 11906 3817 11907 3818 11905 3820 11907
3826 11907 3827 11906
TIME...MOT...LOC 2131Z 351DEG 12KT 3812 11900

Special Weather Statement		
RNOSPSREV	KREV	WWUS85
WMO Header	WUUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Special Weather Statement	
Issuance Time	As needed	
Valid Time	Normally one hour.	

Description:

The Special Weather Statement (SPS) is more often used to augment the current forecast and highlight significant short-term weather that is not already covered in an advisory, watch, or warning product. Examples include a line of strong, but not severe, thunderstorms...or an area of moderately intense snow showers.

WWUS85 KREV 262141 CCA
SPSREV

SPECIAL WEATHER STATEMENT
NATIONAL WEATHER SERVICE RENO NV
233 PM PDT SUN AUG 26 2007

CAZ073-NVZ001-262300-
MINERAL AND SOUTHERN LYON COUNTIES-MONO-
233 PM PDT SUN AUG 26 2007

...STRONG THUNDERSTORMS FROM WEST OF WALKER LAKE TO MONO LAKE...

AT 231 PM PDT...NATIONAL WEATHER SERVICE DOPPLER RADAR WAS TRACKING SEVERAL STRONG THUNDERSTORMS ALONG A LINE EXTENDING FROM 9 MILES SOUTHWEST OF WALKER LAKE TO 10 MILES SOUTHEAST OF MONO LAKE...OR ALONG A LINE EXTENDING FROM 30 MILES NORTH OF BODIE TO 10 MILES SOUTHEAST OF MONO LAKE. THIS LINE OF STORMS IS MOVING EAST AROUND 5 MPH...HOWEVER ADDITIONAL STORMS MAY REDEVELOP IN THE THESE SAME AREAS THROUGH 400 PM PDT.

FREQUENT DEADLY LIGHTNING...BRIEF HEAVY RAIN WITH RAINFALL AMOUNTS UP TO ONE INCH PER HOUR REDUCING VISIBILITIES TO LESS THAN ONE MILE...SMALL PEA OR MARBLE SIZE HAIL...AND POSSIBLE STRONG GUSTY WINDS OF AROUND 40 TO 50 MPH... ARE EXPECTED WITH THESE STORMS. RECREATORS ON WALKER LAKE SHOULD KEEP AN EYE ON THE SKY AND RETURN TO SHORE IF THREATENING WEATHER APPROACHES.

THESE STORMS WILL BE...
NEAR JUNCTION NV 359 AND CA 167 BY 255 PM PDT.
NEAR WALKER LAKE BY 300 PM PDT.

UNDER THE CORES OF THESE STORMS HEAVY RAINFALL MAY CAUSE PONDING OF WATER ON LOCAL ROADWAYS. IN AREAS OF STEEP TERRAIN...MINOR ROCK SLIDES ARE POSSIBLE. DRIVERS SHOULD SLOW DOWN AND TURN ON THEIR HEADLIGHTS IF ENCOUNTERING HEAVY RAINS.

IF YOU ARE IN THE PATH OF THESE STORMS...SEEK SHELTER INDOORS AND STAY AWAY FROM WINDOWS. STAY TUNED TO NOAA ALL HAZARDS RADIO... WEATHER.GOV/RENO ON THE INTERNET...OR LOCAL MEDIA FOR LATER UPDATES AND POSSIBLE WARNINGS.

NWS Reno Products and Media Guide

Winter Products:

- Winter Storm Watch (RNOWSWREV)
- Winter Storm Warning (RNOWSWREV)
- Blizzard Warning (RNOWSWREV)
- Heavy Snow Warning (RNOWSWREV)
- Ice Storm Warning (RNOWSWREV)
- Winter Weather Advisory (RNOWSWREV)
- Snow Advisory (RNOWSWREV)
- Freezing Rain Advisory (RNOWSWREV)
- Blowing Snow Advisory (RNOWSWREV)
- Avalanche Guidance (RNOSAGREV)

<u>Winter Storm Watch</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Winter Storm Watch is issued when the conditions are favorable for hazardous winter weather conditions to develop, but the occurrence is still uncertain. It is typically issued 12 to 48 hours before an event is expected to begin. Information included is the affected area, reason issued, potential snowfall amounts or ice accumulations, and the uncertainty involved.

WWUS45 KREV 210133
WSWREV

URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
633 PM PDT FRI APR 20 2007

CAZ071>073-NVZ002-211200-
/O.CON.KREV.WS.A.0008.070422T0500Z-070422T2300Z/
LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-
GREATER LAKE TAHOE AREA-MONO-
INCLUDING THE CITIES OF...PORTOLA...SUSANVILLE...WESTWOOD...
SIERRAVILLE...SOUTH LAKE TAHOE...TAHOE CITY...TRUCKEE...
MARKLEEVILLE...BRIDGEPORT...COLEVILLE...LEE VINING...
MAMMOTH LAKES...GLENBROOK...INCLINE VILLAGE
633 PM PDT FRI APR 20 2007

...WINTER STORM WATCH REMAINS IN EFFECT FROM SATURDAY EVENING
THROUGH SUNDAY AFTERNOON...

A STORM SYSTEM GATHERING STRENGTH OVER THE EASTERN PACIFIC OCEAN
WILL REACH THE WEST COAST BY SATURDAY NIGHT AND MOVE ACROSS THE
SIERRA NEVADA ON SUNDAY. SNOW IS EXPECTED TO SPREAD INTO THE
SIERRA BY SATURDAY AFTERNOON...WITH HEAVY SNOW POSSIBLE SATURDAY
NIGHT INTO SUNDAY MORNING. THE BEST CHANCE FOR SIGNIFICANT SNOW
ACCUMULATIONS WILL BE ABOVE 5500 FT IN NORTHEAST CALIFORNIA...
ABOVE 6000 FEET IN THE LAKE TAHOE BASIN...AND ABOVE 6500 FEET IN
MONO COUNTY. IN LOWER ELEVATIONS OF THE EASTERN SIERRA...GUSTY
SOUTH TO SOUTHWEST WINDS ARE POSSIBLE SATURDAY NIGHT...BEFORE THE
HEAVIER SNOW MOVES IN SUNDAY MORNING.

A WINTER STORM WATCH MEANS THERE IS A POTENTIAL FOR SIGNIFICANT
SNOW ACCUMULATIONS THAT MAY CREATE HAZARDOUS WINTER DRIVING
CONDITIONS. CONTINUE TO MONITOR THE LATEST STATEMENTS FROM THE
NATIONAL WEATHER SERVICE ON THIS DEVELOPING SITUATION.

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

Winter Storm Warning		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Winter Storm Warning is issued whenever a combination of hazardous winter weather (typically heavy snow and strong winds) is occurring, is imminent, or expected. It is important to note that WFO Reno and its surrounding offices have different criteria for issuing winter storm warnings. This is due to the topography of our forecast area and the wide range of snow amounts possible. (See *Heavy Snow Warning and Snow Advisory products for snow amounts*).

WWUS45 KREV 211104
WSWREV

URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
404 AM PDT SAT APR 21 2007

...LATE SEASON WINTER STORM FOR THE SIERRA THIS WEEKEND...

.A STORM GATHERING STRENGTH OVER THE EASTERN PACIFIC OCEAN WILL REACH THE WEST COAST BY TONIGHT AND MOVE ACROSS THE SIERRA ON SUNDAY. SNOW IS EXPECTED TO SPREAD INTO THE SIERRA BY THIS AFTERNOON...WITH HEAVY SNOW AT TIMES TONIGHT AND SUNDAY.

CAZ071-212315-
/O.UPG.KREV.WS.A.0008.070422T0500Z-070422T2300Z/
/O.NEW.KREV.WS.W.0004.070422T0300Z-070422T2300Z/
LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-
INCLUDING THE CITIES OF...PORTOLA...SUSANVILLE...WESTWOOD...
SIERRAVILLE
404 AM PDT SAT APR 21 2007

...WINTER STORM WARNING IN EFFECT FROM 8 PM THIS EVENING TO 4 PM
PDT SUNDAY ABOVE 5500 FEET...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A WINTER STORM WARNING...WHICH IS IN EFFECT FROM 8 PM THIS EVENING TO 4 PM PDT SUNDAY. THE WINTER STORM WATCH IS NO LONGER IN EFFECT.

LIGHT SNOW WILL DEVELOP OVER NORTHEAST CALIFORNIA THIS AFTERNOON AND BECOME HEAVY THIS EVENING. SNOW LEVELS ARE FORECAST TO REMAIN BETWEEN 5500 AND 6000 FEET TONIGHT...THEN DROP TO NEAR 5000 FEET ON SUNDAY. TOTAL SNOW ACCUMULATIONS WILL RANGE FROM 7 TO 14 INCHES ABOVE 5500 FEET...WITH 3 TO 7 INCHES DOWN TO 5000 FEET MAINLY IN AREAS WEST OF HIGHWAY 395 BY SUNDAY AFTERNOON. GUSTY WINDS ARE ALSO EXPECTED TO ACCOMPANY THE SNOW IN HIGHER ELEVATIONS...RESULTING IN NEAR ZERO VISIBILITY AT TIMES.

CONDITIONS CAN DETERIORATE RAPIDLY IN WINTER WEATHER SITUATIONS...SLOW DOWN AND ALLOW EXTRA TIME WHEN TRAVELING. PRACTICE YOUR WINTER SAFETY RULES...CARRY TIRE CHAINS...WATER...BLANKETS AND A FLASHLIGHT IN YOUR CAR IN CASE OF AN EMERGENCY.

CAZ072-NVZ002-212315-
 /O.UPG.KREV.WS.A.0008.070422T0500Z-070422T2300Z/
 /O.NEW.KREV.WS.W.0004.070422T0300Z-070422T2300Z/
 GREATER LAKE TAHOE AREA-
 INCLUDING THE CITIES OF...SOUTH LAKE TAHOE...TAHOE CITY...
 TRUCKEE...MARKLEEVILLE...GLENBROOK...INCLINE VILLAGE
 404 AM PDT SAT APR 21 2007

...WINTER STORM WARNING IN EFFECT FROM 8 PM THIS EVENING TO 4 PM
 PDT SUNDAY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A WINTER STORM
 WARNING...WHICH IS IN EFFECT FROM 8 PM THIS EVENING TO 4 PM PDT
 SUNDAY. THE WINTER STORM WATCH IS NO LONGER IN EFFECT.

LIGHT SNOW WILL DEVELOP OVER THE LAKE TAHOE BASIN THIS AFTERNOON
 AND BECOME HEAVY THIS EVENING. SNOW LEVELS ARE FORECAST TO REMAIN
 NEAR 6000 FEET TONIGHT...THEN DROP TO THE VALLEY FLOOR OF EASTERN
 ALPINE COUNTY ON SUNDAY. TOTAL SNOW ACCUMULATIONS WILL RANGE FROM
 10 TO 20 INCHES ABOVE 7000 FEET...WITH 6 TO 12 INCHES DOWN TO LAKE
 LEVEL BY SUNDAY AFTERNOON. GUSTY WINDS WILL ACCOMPANY THE SNOW IN
 HIGHER ELEVATIONS...RESULTING IN NEAR ZERO VISIBILITY AT TIMES.

CONDITIONS CAN DETERIORATE RAPIDLY IN WINTER WEATHER
 SITUATIONS...SLOW DOWN AND ALLOW EXTRA TIME WHEN TRAVELING. PRACTICE
 YOUR WINTER SAFETY RULES...CARRY TIRE CHAINS...WATER...BLANKETS
 AND A FLASHLIGHT IN YOUR CAR IN CASE OF AN EMERGENCY.

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<u>Blizzard Warning</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Blizzard Warning will be issued when sustained winds or frequent gusts of 35 mph or more with the
 visibility frequently below 1/4 mile in snow or blowing snow is occurring or expected for at least 3
 hours.

. (Note: At this time WFO Reno does **not** issue blizzard warnings for the forecast zones in the Sierra
 Nevada mountain range).

<u>Heavy Snow Warning</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Heavy Snow Warning is issued when:

- Valley locations in Western Nevada and Eastern California (generally below 5,000').
 - Warning- 4” or more in 12 hours
6” or more in 24 hours
- Sierra Nevada and mountains of Eastern California (generally above 5,000’, including the Lake Tahoe Basin, and Mono county)
 - Between 5,000’ and 7,000’:
 - Warning- 8” or more in 12 hours
12” or more in 24 hours
 - Above 7,000’:
 - Warning – 12”in more than 12 hours
18” in more than 24 hours

Note: These criteria are without significant winds (less than 25 mph). If strong winds are expected, then a Winter Storm Warning will be issued.

<u>Ice Storm Warning</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

An Ice Storm Warning is issued when significant or damaging accumulations of ice are expected during freezing rain situations, usually ¼ inch accumulation or greater. This is a very rare occurrence in our area.

<u>Winter Weather Advisory</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until advisory expires	

Description:

A Winter Weather Advisory is issued if variable types (or a mixture) of freezing and frozen precipitation (snow, sleet, freezing rain) are expected, with amounts below warning criteria. This is a rare occurrence for the WFO Reno zones. A Winter Weather Advisory will not be issued if snow and wind are the only threats; a Blowing Snow Advisory will be used in this case.

<u>Snow Advisory</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Snow Advisory is issued when:

- Valley locations in Western Nevada and Eastern California (generally below 5,000').
 - Advisory – 2” in less than 12 hours (but less than 4”)
3” in 24 hours (but less than 6”)
- Sierra Nevada and mountains of Eastern California (generally above 5,000', including the Lake Tahoe Basin, and Mono county).
 - Between 5,000' and 7,000':
 - Advisory – 4” in 12 hours (but less than 8”)
6” in 24 hours (but less than 12”)
 - Above 7,000':
 - Advisory – 6” in 12 hours (but less than 12”)
9” in 24 hours (but less than 18”)

WWUS45 KREV 041235
WSWREV

URGENT - WINTER WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
535 AM PDT FRI MAY 4 2007

CAZ071-041345-
/O.EXP.KREV.SN.Y.0016.000000T0000Z-070504T1300Z/
LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-
INCLUDING THE CITIES OF...PORTOLA...SUSANVILLE...WESTWOOD...
SIERRAVILLE
535 AM PDT FRI MAY 4 2007

...SNOW ADVISORY WILL EXPIRE AT 6 AM PDT EARLY THIS MORNING...

THE SNOW ADVISORY WILL EXPIRE AT 6 AM PDT EARLY THIS MORNING.

THE HEAVIER BANDS OF SNOW HAVE MOVED SOUTH OF THE AREA. SCATTERED
SNOW SHOWERS ARE STILL EXPECTED THROUGH TODAY...HOWEVER LITTLE IF
ANY ACCUMULATION IS EXPECTED.

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CAZ072-NVZ002-041345-
/O.EXP.KREV.SN.Y.0016.000000T0000Z-070504T1300Z/
GREATER LAKE TAHOE AREA-
INCLUDING THE CITIES OF...SOUTH LAKE TAHOE...TAHOE CITY...
TRUCKEE...MARKLEEVILLE...GLENBROOK...INCLINE VILLAGE
535 AM PDT FRI MAY 4 2007

...SNOW ADVISORY WILL EXPIRE AT 6 AM PDT EARLY THIS MORNING...

THE SNOW ADVISORY WILL EXPIRE AT 6 AM PDT EARLY THIS MORNING.

THE HEAVIER SNOW BANDS WILL CONTINUE TO DIMINISH THIS MORNING. SCATTERED SNOW
SHOWERS WILL CONTINUE THROUGH TODAY WITH UP TO 2 INCHES OF SNOW ACCUMULATION
POSSIBLE ABOVE 7000 FEET IN THE HEAVIER SHOWERS THIS MORNING. LIGHT ACCUMULATIONS
ARE POSSIBLE DOWN TO LAKE LEVEL EARLY THIS MORNING.

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

<u>Freezing Rain Advisory</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM -or- CAZXXX-DDHHMM	
MND Heading	Urgent - Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Freezing Rain Advisory is issued when freezing rain is expected to occur, but accumulations are expected to remain less than ¼ inch. Freezing rain is rare occurrence in our area.

<u>Blowing Snow Advisory</u>		
RNOWSWREV	KREV	WWUS45
WMO Header	WWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Winter Weather Message	
Issuance Time	As needed	
Valid Time	Until watch expires	

Description:

A Blowing Snow Advisory is issued when visibilities will be frequently reduced to ½ mile or less in blowing snow. If blowing snow is combined with wind chills of 25 degrees below zero or lower, then a Winter Weather Advisory will be issued.

<u>Avalanche Guidance</u>		
RNOSAGREV	KREV	FWUS45
WMO Header	FWUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Avalanche Guidance	
Issuance Time	Daily around 5a (Seasonal)	
Valid Time	24 hours	

Description:

The Avalanche Guidance is issued daily (seasonal) and provides a backcountry forecast obtained from the United States Forest Service in Truckee, CA.

FWUS45 KREV 291221
SAGREV

AVALANCHE GUIDANCE
NATIONAL WEATHER SERVICE RENO NV
521 AM PDT THU MAR 29 2007

CAZ072-NVZ002-300100-
LAKE TAHOE AND EASTERN ALPINE COUNTY FROM 7000 TO 8000 FEET-
521 AM PDT THU MAR 29 2007

.TODAY...SUNNY. NORTHEAST WINDS 10 TO 20 MPH. HIGHS 42 TO 48.
.TONIGHT...CLEAR. EAST WINDS AROUND 10 MPH. LOWS AROUND 32.
.FRIDAY...PARTLY CLOUDY. EAST WINDS UP TO 10 MPH BECOMING NORTHWEST
10 TO 15 MPH IN THE AFTERNOON. HIGHS 45 TO 53.

CAZ072-NVZ002-300100-
LAKE TAHOE AND EASTERN ALPINE COUNTY ABOVE 8000 FEET-
521 AM PDT THU MAR 29 2007

.TODAY...SUNNY. NORTHEAST WINDS 15 TO 30 MPH...EXCEPT 35 TO 50 MPH
WITH GUSTS TO 60 MPH NEAR THE CREST IN THE MORNING. HIGHS 39 TO 45.
.TONIGHT...CLEAR. NORTHEAST WINDS 10 TO 20 MPH. LOWS 28 TO 32.
.FRIDAY...PARTLY CLOUDY. NORTHWEST WINDS 10 TO 20 MPH. HIGHS 40 TO
47.

CAZ073-300100-
MONO COUNTY FROM 8000 TO 9000 FEET-
521 AM PDT THU MAR 29 2007

.TODAY...SUNNY. EAST WINDS 10 TO 20 MPH. HIGHS 39 TO 45.
.TONIGHT...CLEAR. NORTHEAST WINDS 10 TO 15 MPH. LOWS 22 TO 28.
.FRIDAY...SUNNY. NORTHEAST WINDS UP TO 10 MPH BECOMING NORTHWEST
10 TO 15 MPH IN THE AFTERNOON. HIGHS 47 TO 53.

CAZ073-300100-
MONO COUNTY ABOVE 9000 FEET-
521 AM PDT THU MAR 29 2007

.TODAY...SUNNY. NORTHEAST WINDS 15 TO 30 MPH...EXCEPT 25 TO 45 MPH
WITH GUSTS TO 60 MPH NEAR THE CREST IN THE MORNING. HIGHS 32 TO 39.
.TONIGHT...CLEAR. NORTH WINDS 10 TO 20 MPH. LOWS 26 TO 32.
.FRIDAY...SUNNY. NORTHWEST WINDS 10 TO 15 MPH. HIGHS 37 TO 47.

NWS Reno Products and Media Guide

Fire Weather Products:

- Fire Weather Forecast (RNOFWFREV)
- Fire Weather Point Forecast (RNOFWMREV)
- Fire Weather Watch (RNORFWREV)
- Red Flag Warning (RNORFWREV)
- Dense Smoke Advisory (RNONPWREV)
- Spot Forecast Request (RNOSTQREV)
- Spot Forecast (RNOFWSREV)



Fire Weather Zone Forecast Map



WFO Reno provides meteorological support to federal, state and local government agencies engaged in wildland fire protection and control activities for western Nevada and portions of eastern California.

Our users include the U.S. Forest Service, the Bureau of Land Management, the Nevada Division of Forestry, the Lake Tahoe Basin Management Unit, the California Department of Forestry, the National Park Service, the Bureau of Indian Affairs, the Fish and Wildlife Service and many local government fire agencies.

Services include a Fire Weather Planning Forecast, Red Flag Warnings and Fire Weather Watches, Spot Forecasts, National Fire Danger Rating System Trend Forecasts, IMET dispatches to incidents, and Weather Briefings and Training Sessions that are held annually. The fire season typically runs from mid-May through mid-October.

Fire Weather Planning Forecast		
RNOFWFREV	KREV	FNUS55
WMO Header	FNUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Fire Weather Planning Forecast	
Issuance Time	Twice daily at 730a and 330p and updated as needed.	
Valid Time	12 Hours	

Description:

The Fire Weather Planning Forecast is written during the fire weather season which is roughly from May through October. The narrative includes a forecast of relative humidity, hours of sunshine, precipitation amount, temperature, Lightning Activity Level (LAL) and wind. During the off season the Fire Weather Planning Forecast is issued once per day at 0730 am.

FNUS55 KREV 271255
FWFREV

FIRE WEATHER PLANNING FORECAST OFFSEASON FORMAT
NATIONAL WEATHER SERVICE RENO NV
700 AM PDT FRI APR 27 2007

.DISCUSSION...HIGH PRESSURE WILL RESULT IN WARM AND DRY CONDITIONS THROUGH THE WEEKEND. NIGHTTIME HUMIDITY RECOVERIES WILL BECOME INCREASINGLY POOR EACH NIGHT ESPECIALLY ON RIDGE TOPS AND MID SLOPES. A STRONG LOW PRESSURE SYSTEM WILL BRING AN INCREASE IN WIND AND MUCH COOLER TEMPERATURES NEXT WEEK.

NOTE: PLEASE SEE OPERATING PLAN FOR DETAILED ZONE DESCRIPTIONS
[HTTP://WEATHER.GOV/RENO/FIRE](http://weather.gov/reno/fire)

NVZ450-281030-
WESTERN NEVADA SIERRA FRONT-
INCLUDING A PORTION OF THE HUMBOLDT TOIYABE NF
700 AM PDT FRI APR 27 2007

.TODAY...
SKY/WEATHER.....SUNNY.
MAX TEMPERATURE.....
VALLEYS.....73-83.
MIN HUMIDITY.....
VALLEYS.....11-16%.
20-FOOT WINDS.....
VALLEYS/SLOPE....LIGHT WINDS.
RIDGE TOP.....LIGHT WINDS.

.TONIGHT...
SKY/WEATHER.....CLEAR.
MIN TEMPERATURE.....
VALLEYS.....36-45.
MAX HUMIDITY.....
VALLEYS.....57-67%.
20-FOOT WINDS.....
VALLEYS/SLOPE....LIGHT WINDS.

RIDGE TOP.....SOUTHEAST 10 TO 15 MPH.

.SATURDAY...

SKY/WEATHER.....SUNNY.

MAX TEMPERATURE.....

VALLEYS.....76-86.

MIN HUMIDITY.....

VALLEYS.....10-16%.

20-FOOT WINDS.....

VALLEYS/SLOPE....LIGHT WINDS BECOMING SOUTHWEST 10 TO 15 MPH.

RIDGE TOP.....SOUTHWEST 15 TO 20 MPH.

.EXTENDED...

.SUNDAY...PARTLY CLOUDY. HIGHS 73-83. LOWS 38-47. SOUTHWEST WINDS 10 TO 15 MPH.

.MONDAY...CLEAR. HIGHS 69-79. LOWS 37-47. SOUTHWEST WINDS 10 TO 15 MPH.

.TUESDAY...PARTLY CLOUDY AND BREEZY. HIGHS 60-70. LOWS 34-44. WEST WINDS 15 TO 25 MPH.

.WEDNESDAY...MOSTLY CLOUDY AND BREEZY WITH A SLIGHT CHANCE OF SHOWERS. HIGHS 53-63. LOWS 31-41.

.THURSDAY...MOSTLY CLOUDY AND BREEZY WITH A SLIGHT CHANCE OF SHOWERS. HIGHS 49-59.

.8 TO 14 DAY OUTLOOK FOR (FRI MAY 4 THROUGH THU MAY 10)

NEAR NORMAL TEMPERATURES AND PRECIPITATION.

<u>Fire Weather Point Forecast</u>		
RNOFWMREV	KREV	FNUS85
WMO Header	FNUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM -or- CAZXXX-DDHHMM	
MND Heading	Fire Weather Point Forecast	
Issuance Time	Twice daily at 4a and 4p and updated as needed.	
Valid Time	12 Hours	

Description:

The Fire Weather Point Forecast produces a forecast for in a specialized format which fire weather models utilize for various fire weather indices.

FNUS85 KREV 262208

FWMREV

ZONE,450,070827,13,1,-2,3,1,2,-3,0,,,,,0,0,N
 ZONE,453,070827,13,1,-2,3,2,2,0,0,,,,,0,0,N
 ZONE,458,070827,13,0,-1,1,1,1,-4,0,,,,,0,0,N
 ZONE,518,070827,13,2,0,0,4,3,0,2,,,,,2,1,N
 ZONE,541,070827,13,1,-1,0,1,1,-3,0,,,,,0,0,N
 ZONE,542,070827,13,1,-1,0,1,1,0,0,,,,,0,0,N
 ZONE,572,070827,13,0,-1,1,1,1,-2,0,,,,,0,0,N
 ZONE,576,070827,13,2,0,2,3,3,-5,1,,,,,1,0,N
 ZONE,598,070827,13,0,0,1,1,1,-2,0,,,,,0,0,N

Fire Weather Watch		
RNORFWREV	KREV	WWUS85
WMO Header	WWUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Fire Weather Watch	
Issuance Time	As conditions warrant	
Valid Time	Until watch expires	

Description:

The Fire Weather Watch is issued for dangerous fire weather conditions for a combination of low relative humidity, strong winds and warm temperatures expected from 12 to 36 hours in advance. This watch is issued with coordination from state fire weather officials.

WWUS85 KREV 200158
RFWREV

RED FLAG WARNING
NATIONAL WEATHER SERVICE RENO NV
658 PM PDT SUN AUG 19 2007

NVZ450-201430-
/O.EXP.KREV.FW.W.0023.000000T0000Z-070820T0200Z/
/O.CON.KREV.FW.A.0023.070820T2000Z-070821T0300Z/
WESTERN NEVADA SIERRA FRONT-
658 PM PDT SUN AUG 19 2007

...FIRE WEATHER WATCH REMAINS IN EFFECT FROM MONDAY AFTERNOON
THROUGH MONDAY EVENING...

...RED FLAG WARNING WILL EXPIRE AT 7 PM PDT THIS EVENING...

THE RED FLAG WARNING WILL EXPIRE AT 7 PM PDT THIS EVENING. A FIRE
WEATHER WATCH REMAINS IN EFFECT FROM MONDAY AFTERNOON THROUGH
MONDAY EVENING.

GUSTY WINDS ARE EXPECTED AGAIN TOMORROW AFTERNOON AND EVENING
ALONG THE SIERRA FRONT...ALTHOUGH THEY WILL NOT BE QUITE AS STRONG
AS TODAY. SOUTHWEST WINDS WILL INCREASE TO 10 TO 20 MPH WITH WIND
GUSTS OF 30 TO 35 MPH POSSIBLE BEGINNING AROUND 1 PM. RELATIVE
HUMIDITIES WILL AGAIN LOWER TO 8 TO 16 PERCENT BY EARLY TOMORROW
AFTERNOON CREATING ANOTHER DAY OF POTENTIALLY HAZARDOUS FIRE
WEATHER CONDITIONS.

A FIRE WEATHER WATCH MEANS THAT CRITICAL FIRE WEATHER CONDITIONS
ARE POSSIBLE. LISTEN FOR LATER FORECASTS AND POSSIBLE RED FLAG
WARNINGS.

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Red Flag Warning		
RNORFWREV	KREV	WWUS85
WMO Header	WWUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Red Flag Warning	
Issuance Time	As conditions warrant	
Valid Time	Until warning expires	

Description:

The Red Flag Warning is issued for dangerous fire weather conditions for a combination of low relative humidity, strong winds and warm temperatures. This warning is issued with coordination from state fire weather officials.

WWUS85 KREV 192202
RWFREV

RED FLAG WARNING
NATIONAL WEATHER SERVICE RENO NV
302 PM PDT SUN AUG 19 2007

NVZ450-200615-
/O.NEW.KREV.FW.A.0023.070820T2000Z-070821T0300Z/
/O.CON.KREV.FW.W.0023.000000T0000Z-070820T0200Z/
WESTERN NEVADA SIERRA FRONT-
302 PM PDT SUN AUG 19 2007

...RED FLAG WARNING REMAINS IN EFFECT UNTIL 7 PM PDT THIS
EVENING FOR STRONG WINDS AND LOW HUMIDITY...
...FIRE WEATHER WATCH IN EFFECT FROM MONDAY AFTERNOON THROUGH
MONDAY EVENING FOR STRONG WINDS AND LOW HUMIDITY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A FIRE WEATHER
WATCH...WHICH IS IN EFFECT FROM MONDAY AFTERNOON THROUGH MONDAY
EVENING. A RED FLAG WARNING REMAINS IN EFFECT UNTIL 7 PM PDT THIS
EVENING.

A LOW PRESSURE SYSTEM MOVING THROUGH THE PACIFIC NORTHWEST WILL
CONTINUE TO PROVIDE GUSTY SOUTHWEST WINDS OF 15 TO 25 MPH WITH
GUSTS TO 40 MPH THROUGH AROUND 7 PM THIS EVENING. RELATIVE
HUMIDITY...CURRENTLY NEAR 10 PERCENT WILL SLOWLY INCREASE THROUGH
THE EVENING HOURS BEFORE RECOVERING TO 30% TO 40% OVERNIGHT.

GUSTY WINDS ARE EXPECTED AGAIN TOMORROW AFTERNOON AND EVENING
ALONG THE SIERRA FRONT...ALTHOUGH THEY WILL NOT BE QUITE AS STRONG
AS TODAY. SOUTHWEST WINDS WILL INCREASE TO 10 TO 20 MPH WITH
WIND GUSTS OF 30 TO 35 MPH BEGINNING AROUND 1 PM. RELATIVE
HUMIDITIES WILL AGAIN LOWER TO 8 TO 16 PERCENT BY EARLY TOMORROW
AFTERNOON CREATING ANOTHER DAY OF POTENTIALLY HAZARDOUS FIRE
WEATHER CONDITIONS.

A RED FLAG WARNING MEANS THAT CRITICAL FIRE WEATHER CONDITIONS WILL OCCUR OR ARE
OCCURRING. A FIRE WEATHER WATCH MEANS THAT CRITICAL FIRE WEATHER CONDITIONS ARE
LIKELY TO OCCUR.

<u>Dense Smoke Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until threat of smoke clears area.	

Description:

A Dense Smoke Advisory will be issued when heavy smoke is significantly reducing visibilities and also when the smoke is posing health concerns making it difficult to see and breathe.

WWUS75 KREV 071002
NPWREV

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
256 AM PDT SAT JUL 7 2007

CAZ071-071600-
/O.CON.KREV.SM.Y.0002.000000T0000Z-070707T1600Z/
LASSEN-EASTERN PLUMAS-EASTERN SIERRA COUNTIES-
INCLUDING THE CITIES OF...PORTOLA...SUSANVILLE...WESTWOOD...
SIERRAVILLE
256 AM PDT SAT JUL 7 2007

...DENSE SMOKE ADVISORY REMAINS IN EFFECT UNTIL 9 AM PDT THIS
MORNING...

A DENSE SMOKE ADVISORY REMAINS IN EFFECT UNTIL 9 AM PDT THIS MORNING.

THE SMOKE PLUME FROM THE ANTELOPE COMPLEX WILDFIRE EXTENDS FROM
THE ANTELOPE LAKE AREA NORTHEASTWARD ACROSS HIGHWAY 395 FROM
HONEY LAKE TO RAVENDALE. THIS AREA INCLUDES JANESVILLE AND AREAS
BETWEEN JANESVILLE AND SUSANVILLE. SPOTTER REPORTS UNDER THE
PLUME IN JANESVILLE HAVE REPORTED ASH FALLING WITH LIGHT
ACCUMULATIONS.

THERE WILL BE AREAS WITH VISIBILITIES THIS MORNING NEAR ONE
QUARTER MILE WITH VERY POOR AIR QUALITY IN JANESVILLE AND ALONG
HIGHWAY 395 BETWEEN HONEY LAKE AND RAVENDALE.

A DENSE SMOKE ADVISORY IS ISSUED WHEN SMOKE FROM WILDFIRES
SIGNIFICANTLY REDUCES VISIBILITIES...MAKING IT DIFFICULT TO SEE
AND BREATHE. THE SMOKE AND POOR AIR QUALITY WILL CONTINUE TO BE A
PROBLEM UNTIL THE FIRES ARE EXTINGUISHED. PERSONS IN THE ADVISORY
AREA SHOULD AVOID PROLONGED EXPOSURE TO THE SMOKE AND STAY
INDOORS. MOTORISTS TRAVELING ALONG HIGHWAY 395 BETWEEN HONEY LAKE
AND RAVENDALE ARE URGED TO USE EXTREME CAUTION AS LOW
VISIBILITIES FROM THE SMOKE MAY MAKE DRIVING HAZARDOUS.

\$\$
HOON

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

Spot Forecast Request		
RNOFWSREV	KREV	FNUS75
WMO Header	FNUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Spot Forecast Request	
Issuance Time	As requested by agency	
Valid Time	N/A	

Description:

The Spot Forecast Request enables fire weather users in the Reno NWS county warning area to request certain fire weather parameters for different types of fire weather burns. These requests are then displayed on the Reno NWS web site in the Fire Weather section for users to view the forecast product. (See example spot forecast below).

Spot Forecast		
RNOFWSREV	KREV	FNUS75
WMO Header	FNUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Spot Forecast Request for “ “	
Issuance Time	As requested by agency	
Valid Time	N/A	

Description:

Spot forecasts are generated upon user requests for fire weather parameters. These forecasts are used for prescribed burns or wildfires and are specific to the area impacted.

REQUESTED BY...CHIEF DREW
 REASON FOR REQUEST...WILDFIRE
 FNUS75 KREV 222304
 FWSREV

SPOT FORECAST FOR HWY
 NATIONAL WEATHER SERVICE RENO NV
 345 PM PDT TUE MAY 22 2007

IF CONDITIONS BECOME UNREPRESENTATIVE, CONTACT THE NATIONAL WEATHER SERVICE.

 ...ERRATIC WIND SHIFTS POSSIBLE THIS EVENING AND TONIGHT...

DISCUSSION...
 HIGH PRESSURE OVER THE GREAT BASIN WILL BRING DRIER AND WARMER CONDITIONS TO THE BURN AREA FOR WEDNESDAY. WINDS WILL MAINLY BE SLOPE DRIVEN BY LATER THIS EVENING...BUT GUSTY NORTHEAST WINDS ARE EXPECTED NEAR EXPOSED AREAS AND RIDGETOPS THROUGH WEDNESDAY MORNING.

FOR TONIGHT

WEATHER.....PARTLY CLOUDY IN THE EVENING...THEN CLEARING.
TEMPERATURE.....MIN 41-44 AND 45-50 MIDSLOPES
HUMIDITY.....MAX 45-50% AND 35-45% MIDSLOPES.
WIND...20 FOOT.....NORTHWEST 5-8 MPH BECOMING DOWNSLOPE/DOWNVALLEY
BY 10 PM. EXPOSED AREAS AND RIDGES...NORTHEAST
WINDS 10-15 MPH WITH GUSTS TO 25 MPH.

FOR WEDNESDAY

WEATHER.....MOSTLY SUNNY.
TEMPERATURE.....MAX 68-71.
HUMIDITY.....MIN 8-12%
WIND...20 FOOT.....UPSLOPE/UPVALLEY 3-6 MPH. EXPOSED AREAS AND
RIDGES...NORTHEAST TO EAST WINDS 8-13 MPH IN
THE MORNING WITH GUSTS TO 20 MPH. WINDS
BECOMING VARIABLE TO 10 MPH IN THE AFTERNOON.
MIXING HEIGHT.....16000 FT MSL
MIXING WINDS.....EAST 10 TO 15 MPH IN THE MORNING BECOMING
VARIABLE TO 10 MPH IN THE AFTERNOON.

FORECASTER...SS

NWS Reno Products and Media Guide

Aviation Weather Products:

- Terminal Aerodrome Forecast (RNOTAFRNO, RNOTAFLOL, RNOTAFTVL, RNOTAFTRK)
- Transcribed Weather Broadcast (RNOTWBSYN, RNOTWB376, RNOTWB402, and RNOTWB403) ***No longer issued as of 00z - 09/30/2007***
- Soaring Forecast (RNOSRGREV)



Terminal Aerodrome Forecast		
RNOTAFRNO	KREV	FTUS80
WMO Header	FTUS80 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	N/A	
Issuance Time	Issued 4 times daily and amended as needed. (6a,12p,6p,12a) PDT	
Valid Time	TAF's are valid for 24 hours	

Description:

The Terminal Aerodrome Forecast (TAF) is used by the general aviation community and by the commercial airline industry as a planning tool for upcoming flights. The TAF forecasts wind, visibility, weather, obstructions to visibility, and sky conditions within 5 nautical miles of the airport. Non-convective low-level wind shear will also be forecast if significant. WFO Reno issues TAFs for the airports at Reno, South Lake Tahoe, Truckee, and Lovelock. For more aviation information visit <http://aviationweather.gov/>

FTUS45 KREV 261700

TAFRNO

TAF

KRNO 261725Z 261818 VRB03KT P6SM FEW090
 FM2100 27014G24KT P6SM SCT100
 FM0400 30009KT P6SM FEW100
 FM0600 VRB04KT P6SM SKC

FTUS45 KREV 261700

TAFTVL

TAF

KTVL 261725Z 261818 20010G22KT P6SM FEW070
 FM0400 VRB04KT P6SM FEW070

FTUS45 KREV 261700

TAFTRK

TAF

KTRK 261725Z 261818 22012G22KT P6SM FEW070
 FM2300 26012G22KT P6SM FEW070
 FM0300 VRB04KT P6SM FEW070
 FM0500 00000KT P6SM SKC

FTUS45 KREV 261700

TAFLOL

TAF

KLOL 261725Z 261818 VRB03KT P6SM FEW100
 FM1900 19012KT P6SM FEW100
 FM0000 28010G20KT P6SM SCT100
 FM0500 31005KT P6SM SKC

Transcribed Weather Route Forecast		
RNOSYNRNO	KREV	FRUS45
WMO Header	FRUS45 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	N/A	
Issuance Time	Issued 4 times daily and amended as needed.	
Valid Time	TWEB's are valid for 12 hours	

Description:

The Transcribed Weather Broadcast (TWEB) is a text product indicating general flying conditions along a specified route. It is primarily used for the general aviation community. The TWEB forecasts visibility, sky cover, obstruction to visibility, and weather within 25 nautical miles on either side of a TWEB route. Non-convective low level wind shear and winds are also forecast if significant. WFO Reno issues forecasts for TWEB routes 376, 402, 403, and the Synopsis (SYN) for the state of Nevada. For more aviation information visit <http://aviationweather.gov/>

No longer issued as of 00z - 09/30/2007

FRUS45 KREV 261900

TWB402

402 TWEB 262008 KRNO-KBIH. ALL HGTS MSL EXC CIGS. KRNO-50S KRNO
P6SM FEW-SCT150-200. 50S KRNO-KBIH P6SM SCT100-120 BKN150-200
ISOLD 6SM -TSRA BKN100CB...06Z P6SM SCT-BKN150-200.

FRUS45 KREV 261300

TWBSYN

RNO SYNS 261402 HIGH PRESS OVR CNTRL CONUS WITH TROF ALONG PACNW
CST MOVG ONSHR DURG FCST PD. AMS DRY AND STBL OVR NRN NV WITH
MOIST UNSTBL AMS OVR SRN SIERRA AND SRN NV. LGT-MDT SW FLOW ALF
OVR NV.

<u>Soaring Forecast</u>		
RNOSRGREV	KREV	UXUS97
WMO Header	UXUS97 KREV DDHHMM	
UGC Coding	N/A	
MND Heading	N/A	
Issuance Time	Issued 4 times daily by 7:00am	
Valid Time	24 hours	

Description:

The Soaring forecast is a text product compiled daily and routinely available by 7:00am. The forecast consists of local indices used for non-powered aircraft, current upper-air sounding winds and temperatures aloft, aviation weather forecasts, the local area forecast, and the sunrise and sunset data.

UXUS97 KREV 261346
SRGREV

SOARING FORECAST
NATIONAL WEATHER SERVICE - RENO NV
700 AM PDT SUN AUG 26 2007

THIS SOARING FORECAST IS FOR THE EASTERN SIERRA AND WESTERN NEVADA WITH SPECIFIC INDICES FOR THE GREATER RENO AREA.

THIS FORECAST IS NOT UPDATED.

FOR CURRENT FLIGHT CONDITIONS...FORECASTS...AND ADVISORIES...ACCESS YOUR LOCAL BRIEFING OUTLET OR FLIGHT SERVICE STATION.

LOCAL INDICES FOR RENO:	TODAY	YESTERDAY
MAXIMUM TEMPERATURE AT RENO...(DEG F)...	94	98
TRIGGER TEMPERATURE.....(DEG F)...	80	84
EXCEEDED YESTERDAY BY 19Z		
MAXIMUM ALTITUDE.....(FT MSL)..	17200	16900
SOARING INDEX.....(FPM).....	1116	1137
FORECASTED K-INDEX.....VALID 18Z....	13	17
FORECASTED K-INDEX.....VALID 00Z....	14	5
FORECASTED LIFTED INDEX...VALID 18Z....	6	5
FORECASTED LIFTED INDEX...VALID 00Z....	5	6

AFTERNOON WINDS ALOFT FORECAST

MSL (FT) WIND/TEMP

9000 2420/+17
10000 2319/+14
12000 2317/+10
14000 2318/+04
16000 2419/-02
18000 2521/-08
24000 2529/-19
30000 2535/-35
34000 2545/-43
39000 2556/-52

SLIDE MOUNTAIN DATA:

SLD HR 1330 M 52/29/2530G45/M /SLIDE MTN UNOFFICIAL OBSERVATION

RENO TAF FORECAST:

KRNO 261120Z 261212 VRB03KT P6SM SKC
FM2200 27014G24KT P6SM SCT100
FM0400 30009KT P6SM SKC
FM0600 VRB04KT P6SM SKC

SYNOPSIS:

RNO SYNS 261402 HIGH PRESS OVR CNTRL CONUS WITH TROF ALONG PACNW
CST MOVG ONSHR DURG FCST PD. AMS DRY AND STBL OVR NRN NV WITH
MOIST UNSTBL AMS OVR SRN SIERRA AND SRN NV. LGT-MDT SW FLOW ALF
OVR NV.

402 TWEB 261402 KRNO-KBIH. ALL HGTS MSL EXC CIGS. KRNO-75S KRNO
P6SM SCT150-200. 75S KRNO-KBIH P6SM SCT150 BKN250...20Z P6SM
SCT120 BKN200 ISOLD 6SM -TSRA BKN120CB.

OUTLOOK FOR THE RENO-CARSON CITY-MINDEN AREA:

.MONDAY...SUNNY. HIGHS 85 TO 95. LIGHT WINDS BECOMING SOUTHWEST 10
TO 15 MPH IN THE AFTERNOON.

SUNRISE AND SUNSET

AUGUST 26 2007.....	SUNRISE	622 AM PDT	SUNSET	740 PM PDT
AUGUST 27 2007.....	SUNRISE	623 AM PDT	SUNSET	738 PM PDT

THIS PRODUCT IS ROUTINELY PREPARED BY 700 AM AND IS
DISTRIBUTED TO THE RENO FLIGHT SERVICE STATION AS WELL AS THE
NATIONAL WEATHER SERVICE WORLD WIDE WEB HOMEPAGE AT:

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

NWS Reno Products and Media Guide

Hydrology Products:

- Hydrologic Outlook (RNOESFREV)
- Hydrologic Summary (RNORVAREV)
- Flood Warning (RNOFLWREV)
- Flood Statement (RNOFLSREV)
- Flash Flood Watch (RNOFFAREV)
- Flash Flood Warning (RNOFFWREV)
- Flash Flood Statement (RNOFFSREV)
- Areal Flood Warning (RNOFLWREV)
- Flood Statement for Areal Flood Warning (RNOFLSREV)
- Urban and Small Stream Flood Advisory (RNOFLSREV)



Hydrologic Outlook		
RNOESFREV	KREV	FGUS75
WMO Header	FGUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Hydrologic Outlook	
Issuance Time	As needed	
Valid Time	N/A	

Description:

The Hydrologic Outlook is a long range probabilistic outlook from the Service Hydrologist and various other federal agencies. It normally is issued for the water supply outlook and snow pack conditions.

FGUS75 KREV 090051
 ESFREV
 NVZ001>037-CAZ070>073-200000-

HYDROLOGIC OUTLOOK
 NATIONAL WEATHER SERVICE RENO NV
 545 PM PDT TUE MAY 8 2007

...WATER SUPPLY OUTLOOK FOR NEVADA AND THE EASTERN SIERRA NEVADA...

ISSUED JOINTLY BY THE NATIONAL WEATHER SERVICE AND NATURAL RESOURCES CONSERVATION SERVICE...

1/ SUMMARY...

WATER SUPPLY...

APRIL WAS A TYPICAL TRANSITIONAL MONTH...WITH A MIX OF WINTER AND SUMMER WEATHER. HIGH TEMPERATURE RECORDS WERE BROKEN AT RENO ON THE 5TH...6TH AND 28TH. SEVERAL STORMS DROPPED SNOW IN THE MOUNTAINS WITH RAIN AND SOME SNOW ALL THE WAY DOWN TO THE VALLEY FLOORS ON THE 12TH...18TH...AND 22ND. UNFORTUNATELY...PRECIPITATION WAS MUCH TOO LITTLE TO CHANGE THE WATER SUPPLY OUTLOOK FOR NEVADA. THE SNOW WHICH FELL QUICKLY MELTED.

WHILE EVERY DROP COUNTS...MOST WATERSHEDS JUST SOAKED UP THE SNOW MELT AND RAINFALL INTO THE PARCHED SOILS AND LET LITTLE LEAVE VIA STREAMFLOW. STREAMFLOW FORECASTS REMAIN MUCH BELOW AVERAGE. THOSE AREAS WITH ADEQUATE RESERVOIR STORAGE SHOULD MAKE IT THROUGH THE SUMMER WITH MINIMAL PROBLEMS. FOR THE REST OF THE REGION...WHICH IS THE MAJORITY OF THE AREA AND POPULATION...THIS IS GOING TO BE A LONG DRY SUMMER. MEETING ALL WATER DEMANDS WILL BECOME A REAL PROBLEM FOR MANY COMMUNITIES. EVEN THOSE AREAS WITH ADEQUATE RESERVOIR STORAGE WILL NEED TO USE THOSE BACKUP RESOURCES EARLY TO MEET THE DOWNSTREAM NEEDS.

SPRING SNOWMELT FLOOD POTENTIAL...

THE MAXIMUM SPRING SNOWMELT ON MOST RIVERS AND STREAMS IN NEVADA AND THE EASTERN SIERRA OCCURRED DURING THE FIRST WEEK OF MAY. ALTHOUGH ADDITIONAL MINOR RISES ARE POSSIBLE ON SOME STREAMS DURING UPCOMING WARM WEATHER...THESE RISES WILL PROBABLY NOT MATCH THOSE IN EARLY MAY. SPRING SNOWMELT FLOOD POTENTIAL CONTINUES TO BE VERY LOW THROUGHOUT THE REGION. FLASH FLOODING DURING SPRING AND SUMMER THUNDERSTORMS IS ALWAYS A POSSIBILITY.

2/ SNOWPACK...

MAY 1 SNOWPACK CONDITIONS FOR NEVADA AND EASTERN CALIFORNIA WERE MUCH BELOW AVERAGE. THIS MARKS A DRAMATIC TURN AROUND FOLLOWING TWO BACK TO BACK WET WINTERS. WHILE THE REGION SAW SEVERAL STORMS MOVE THROUGH...NOT ENOUGH SNOW FELL TO IMPROVE THE DISMAL NUMBERS FROM A MONTH AGO. THE SNAKE RIVER BASIN HAD THE HIGHEST MAY 1 VALUE AT 70 PERCENT OF AVERAGE...WHILE THE CLOVER VALLEY AND FRANKLIN RIVER BASIN WAS THE LOWEST WITH NO SNOW...THE OWYHEE BASIN WASNT MUCH BETTER AT JUST 6 PERCENT OF AVERAGE.

BASIN	MAY 1 2006	MAY 1 2007
	PERCENT OF AVERAGE SNOWPACK	PERCENT OF AVERAGE SNOWPACK
LAKE TAHOE	173	15
TRUCKEE RIVER	169	34
CARSON RIVER	175	18
WALKER RIVER	173	40
NORTHERN GREAT	146	20
UPPER HUMBOLDT RIVER	158	21
LOWER HUMBOLDT RIVER	120	37
CLOVER VALLEY & FRANKLIN RIVER	196	0
SNAKE RIVER	133	70
OWYHEE RIVER	101	6
EASTERN NEVADA	139	55

3/ PRECIPITATION...

APRIL WAS SOMEWHAT WETTER THAN PREVIOUS MONTHS IN NEVADA AND EASTERN CALIFORNIA. SEVERAL AREAS ACTUALLY RECEIVED AVERAGE OR EVEN ABOVE AVERAGE AMOUNTS FOR THE MONTH. THIS BOOSTED A FEW BASINS TO NEAR AVERAGE FOR THE WATER YEAR AS OF MAY FIRST. APRIL PRECIPITATION WAS HIGHEST ON THE SNAKE RIVER BASIN AT 118 PERCENT OF AVERAGE AND LOWEST ON THE MONO LAKE BASIN AT 38 PERCENT OF AVERAGE. WATER YEAR PRECIPITATION THROUGH APRIL WAS HIGHEST IN THE CLOVER VALLEY AND FRANKLIN RIVER BASIN AT 96 PERCENT OF AVERAGE...WHILE THE SNAKE RIVER BASIN WAS A CLOSE SECOND AT 95 PERCENT. WATER YEAR PRECIPITATION WAS LOWEST IN THE OWENS RIVER BASIN AT 39 PERCENT OF AVERAGE.

BASIN	APRIL 2007	2007 WATER YEAR
	PERCENT OF AVERAGE PRECIPITATION	PERCENT OF AVERAGE PRECIPITATION THRU MAY 1 2007
PIT RIVER BASIN	64	69
FEATHER RIVER BASIN	70	61
HONEY LAKE BASIN	93	55
LAKE TAHOE	84	68
TRUCKEE RIVER	78	67
CARSON RIVER	68	58
WALKER RIVER	100	59
MONO LAKE BASIN	38	51
OWENS RIVER BASIN	64	39
NORTHERN GREAT	94	76
UPPER HUMBOLDT RIVER	93	90
LOWER HUMBOLDT RIVER	92	74
CLOVER VALLEY AND FRANKLIN RIVER	90	96
SNAKE RIVER	118	95
OWYHEE RIVER	106	90
EASTERN NEVADA	97	86
LOWER COLORADO RIVER	53	62

4/ RESERVOIRS...

RESERVOIR STORAGE IN NEVADA AND EASTERN CALIFORNIA RANGES FROM WELL BELOW AVERAGE FOR THE COLORADO RIVER SYSTEM TO ABOVE AVERAGE FOR MOST OTHER BASINS. RESERVOIR STORAGE WAS THE HIGHEST IN THE LAKE TAHOE BASIN AT 134 PERCENT OF AVERAGE. THE LOWER COLORADO RIVER BASIN IS THE LOWEST AT 65 PERCENT OF AVERAGE.

BASIN	PERCENT OF RESERVOIR CAPACITY	PERCENT OF AVERAGE STORAGE
LAKE TAHOE	72	134
TRUCKEE RIVER	71	110
CARSON RIVER	79	104
WALKER RIVER	62	90
LOWER HUMBOLDT RIVER	78	128
OWYHEE RIVER	81	104
LOWER COLORADO RIVER	54	65

5/ STREAMFLOW FORECASTS...

STREAMFLOW IS FORECAST TO BE WELL BELOW AVERAGE THROUGHOUT NEVADA AND EASTERN CALIFORNIA THROUGH THIS SUMMER. FORECASTS ARE HIGHEST FOR THE SNAKE RIVER BASIN AT 60 PERCENT OF AVERAGE. THE LOWEST FLOWS ARE EXPECTED ON THE CARSON RIVER BASIN AT 15 PERCENT OF AVERAGE...AND ON THE TAHOE BASIN AT 19 PERCENT OF AVERAGE.

BASIN	PERCENT OF AVERAGE MOST PROBABLE FORECAST /50 PERCENT CHANCE OF EXCEEDANCE/
LAKE TAHOE	19
TRUCKEE RIVER	30
CARSON RIVER	15
WALKER RIVER	30
NORTHERN GREAT	35
UPPER HUMBOLDT RIVER	31
LOWER HUMBOLDT RIVER	22
CLOVER VALLEY AND FRANKLIN RIVER	35
SNAKE RIVER	60
OWYHEE RIVER	40
EASTERN NEVADA	44
LOWER COLORADO RIVER	50

6/ SPRING FLOOD POTENTIAL OUTLOOK...

THE MAXIMUM SPRING SNOWMELT ON MOST RIVERS AND STREAMS IN NEVADA AND THE EASTERN SIERRA OCCURRED DURING THE FIRST WEEK OF MAY. ADDITIONAL MINOR RISES ARE POSSIBLE ON SOME STREAMS DURING UPCOMING WARM SPRING WEATHER...BUT THESE RISES WILL PROBABLY NOT MATCH THOSE IN EARLY MAY...AS THE MID ELEVATION SNOWPACK HAS MELTED OUT...AND ALL THAT REMAINS IS THE HIGH ELEVATION PACK. SPRING SNOWMELT FLOOD POTENTIAL CONTINUES TO BE VERY LOW THROUGHOUT THE REGION. FLASH FLOODING...SMALL STREAM FLOODING AND URBAN FLOODING ARE POSSIBLE DURING ANY LOCALIZED HEAVY PRECIPITATION ANY TIME OF THE YEAR.

7/ LONG RANGE WEATHER OUTLOOK FOR NEVADA AND THE EASTERN SIERRA...

FOR THE REMAINDER OF MAY...THERE ARE EQUAL CHANCES OF ABOVE... BELOW...AND NORMAL PRECIPITATION THROUGHOUT THE REGION. TEMPERATURES ARE EXPECTED TO BE ABOVE AVERAGE OVER THE SIERRA NEVADA SOUTH OF LAKE TAHOE AND IN EXTREME WESTERN NEVADA SOUTH OF RENO. THERE ARE EQUAL CHANCES OF ABOVE...BELOW AND NORMAL TEMPERATURES

OVER THE REST OF NORTHEAST CALIFORNIA AND NEVADA..

THE LONG RANGE OUTLOOK FOR THE MONTHS OF JUNE THROUGH AUGUST...
PRECIPITATION IS EXPECTED TO BE BELOW AVERAGE IN EXTREME NORTHERN
NEVADA...WITH EQUAL CHANCES OF ABOVE...BELOW AND NORMAL
PRECIPITATION OVER THE REMAINDER OF NEVADA AND EASTERN CALIFORNIA.
TEMPERATURES ARE EXPECTED TO BE ABOVE AVERAGE THROUGHOUT THE REGION
DURING THIS PERIOD...ESPECIALLY IN SOUTHERN NEVADA.

8/ FOR MORE DETAILED WATER SUPPLY AND STREAMFLOW FORECAST INFORMATION
FOR THE EASTERN SIERRA AND NEVADA...PLEASE REFER TO THE FOLLOWING
WEB SITES /NOTE...ALL LETTERS IN WEB SITE ADDRESSES ARE LOWER
CASE/...

NWS WESTERN WATER SUPPLY FORECASTS...
[HTTP://WWW.CBRFC.NOAA.GOV/WESTERNWATER/MAP.PHP?MAP=WSUP](http://www.cbrfc.noaa.gov/westernwater/map.php?map=wsup)

NWS CALIFORNIA NEVADA RIVER FORECAST CENTER...
[HTTP://WWW.CNRFC.NOAA.GOV/](http://www.cnrfc.noaa.gov/)

NATURAL RESOURCES CONSERVATION SERVICE...
[HTTP://WWW.NV.NRCS.USDA.GOV/SNOW/INDEX.HTML](http://www.nv.nrcs.usda.gov/snow/index.html)

CALIFORNIA DEPT. OF WATER RESOURCES...
[HTTP://CDEC.WATER.CA.GOV/](http://cdec.water.ca.gov/)

NWS CLIMATE PREDICTION CENTER LONG RANGE OUTLOOK MAPS...
[HTTP://WWW.CPC.NCEP.NOAA.GOV/PRODUCTS/FORECASTS/](http://www.cpc.ncep.noaa.gov/products/forecasts/)

U.S. DROUGHT MONITOR...
[HTTP://WWW.DROUGHT.UNL.EDU/DM/MONITOR.HTML](http://www.drought.unl.edu/dm/monitor.html)

NNNN

<u>Hydrologic Summary</u>		
RNORVSREV	KREV	FGUS85
WMO Header	FGUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM -or- CAZXXX-DDHHMM	
MND Heading	Hydrologic Summary	
Issuance Time	As needed	
Valid Time	N/A	

Description:

The Hydrologic Summary gives river stage, lake or reservoir capacity values at various points in the Reno NWS forecast area.

FGUS85 KREV 301731
RVSREV
CAC057-061-010000-

HYDROLOGIC STATEMENT
NATIONAL WEATHER SERVICE RENO NV
1030 AM PDT FRI JUN 30 2006

...LAKE TAHOE RECEDING FROM NEAR MAXIMUM LEGAL ELEVATION...

...RELEASES FROM LAKE TAHOE TO BE DECREASED BEGINNING AT NOON TODAY...

AT 9 AM FRIDAY...LAKE TAHOE WAS AT AN ELEVATION OF 6229.03 FEET ABOVE SEA LEVEL. THIS IS 0.07 FOOT...ALMOST AN INCH...BELOW ITS MAXIMUM LEGAL ELEVATION OF 6229.1 FEET...AND 0.04 FOOT LOWER THAN ON THURSDAY MORNING. BECAUSE LAKE TAHOE IS RECEDING...RELEASES INTO THE TRUCKEE RIVER AT TAHOE CITY WILL BE DECREASED FROM 1580 CUBIC FEET PER SECOND /CFS/ TO 1180 CFS AT AROUND NOON TODAY.

RAFTING BY PRIVATE INDIVIDUALS MAY RESUME WHEN FLOWS IN THE RIVER DROP BELOW 1200 CFS. COMMERCIAL RAFTING MAY NOT RESUME UNTIL FLOWS DROP BELOW 900 CFS. ONCE FLOWS ARE DECREASED THIS AFTERNOON THE FLOODING ALONG THE BIKE PATH BETWEEN TAHOE CITY AND ALPINE MEADOWS WILL END.

THESE HIGH RELEASES WILL CONTINUE TO CAUSE HAZARDOUS RECREATIONAL CONDITIONS ON THE TRUCKEE RIVER BETWEEN TAHOE CITY AND TRUCKEE. RAFTERS...KAYAKERS...SWIMMERS...ANGLERS...CAMPERS AND OTHERS USING THE TRUCKEE RIVER FOR RECREATION OVER THE UPCOMING FOURTH OF JULY WEEKEND SHOULD BE CAUTIOUS OF THESE HAZARDOUS CONDITIONS. THE RIVER WILL BE COLD...SWIFT AND TURBULENT...WITH DANGEROUS FLOATING DEBRIS.

REAL-TIME STAGE AND FLOW INFORMATION FOR MANY RIVERS AND STREAMS IN EASTERN CALIFORNIA AND NEVADA IS AVAILABLE FROM USGS ON THE INTERNET AT: [HTTP://WATERDATA.USGS.GOV/NWIS/](http://WATERDATA.USGS.GOV/NWIS/)...IN LOWER CASE.

THIS IS THE FINAL STATEMENT FOR THE TRUCKEE RIVER UNTIL CONDITIONS WARRANT.

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GEB

Flood Warning		
RNOFLWREV	KREV	WGUS45
WMO Header	WGUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Flood Warning	
Issuance Time	As needed	
Valid Time	N/A	

Description:

The Flood Warning is issued when forecast river points in the Reno warning area are forecast to be at moderate flood levels or higher.

WGUS45 KREV 192207
 FLWREV
 CAC051-NVC005-019-021-202200-

BULLETIN - IMMEDIATE BROADCAST REQUESTED
 FLOOD WARNING
 NATIONAL WEATHER SERVICE RENO NV
 305 PM PDT FRI MAY 19 2006

...THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A FLOOD WARNING FOR MINOR LOWLAND FLOODING UNTIL FURTHER NOTICE FOR...

THE WEST WALKER RIVER...INCLUDING MONO COUNTY CALIFORNIA...DOUGLAS AND LYON COUNTIES NEVADA...AND THE TOWNS OF WALKER...COLEVILLE...TOPAZ...WELLINGTON AND SMITH.

AND THE MAINSTEM WALKER RIVER IN LYON COUNTY NEVADA...INCLUDING THE TOWNS OF MASON...YERINGTON...AND WABUSKA.

A FLOOD ADVISORY REMAINS IN EFFECT UNTIL FURTHER NOTICE FOR THE WALKER RIVER IN MINERAL COUNTY...INCLUDING THE TOWN OF SCHURZ.

MINOR LOWLAND FLOODING IS OCCURRING AND IS EXPECTED TO CONTINUE THROUGH MUCH OF MAY ON BOTH THE WEST WALKER AND MAINSTEM WALKER RIVERS. LOWLANDS...PASTURE AND RURAL ROADS ALONG THE RIVER ARE SUBJECT TO FLOODING...AS ARE LOW-LYING STRUCTURES.

THE WEST WALKER RIVER IS EXPECTED TO RISE SOMEWHAT HIGHER THAN IT HAS BEEN THE PAST FEW DAYS BEGINNING FRIDAY NIGHT AND CONTINUING THROUGH THE WEEKEND. THIS DUE TO SNOWMELT COMBINED WITH RAINFALL RUNOFF FROM A PACIFIC STORM WHICH WILL AFFECT THE AREA THROUGH EARLY NEXT WEEK. MINOR LOWLAND FLOODING IS EXPECTED FROM THE WALKER RIVER CANYON IN MONO COUNTY DOWNSTREAM TO THE WELLINGTON-SMITH VALLEY AREA IN LYON COUNTY THROUGH THE MIDDLE OF NEXT WEEK.

THE MAINSTEM WALKER ABOVE WEBER DAM WILL ALSO CONTINUE TO RISE OVER THE NEXT FEW DAYS DUE THIS INCREASED RUNOFF...WITH CONTINUED MINOR LOWLAND FLOODING IN THE MASON VALLEY-YERINGTON AREA. BELOW WEBER DAM IN THE SCHURZ AREA...NO FLOODING IS OCCURRING AT THIS TIME. HOWEVER...AREAS OF MINOR LOWLAND FLOODING SHOULD BE EXPECTED BY EARLY NEXT WEEK AS RESERVOIR RELEASES ARE INCREASED.

ONLY VERY MINOR FLOODING IS EXPECTED ON THE EAST WALKER RIVER.

RIVER LEVELS WILL REMAIN HIGH FOR THE NEXT FEW WEEKS AS SNOWMELT CONTINUES. ANY HEAVY RAIN COULD CAUSE ADDITIONAL RISES ON THE WALKER RIVER AND ITS TRIBUTARIES.

THOSE WITH INTERESTS ALONG THE WEST AND MAINSTEM WALKER RIVER AND ITS TRIBUTARIES SHOULD BE PREPARED TO MOVE VALUABLES AWAY FROM AREAS SUBJECT TO FLOODING OR OTHERWISE PROTECT THESE AREAS. THEY SHOULD CLOSELY MONITOR WEATHER AND RIVER FORECASTS IN CASE HEAVY RAIN CAUSES FURTHER RISES.

RAFTERS...KAYAKERS...SWIMMERS...ANGLERS...CAMPERS AND OTHERS USING RIVERS AND STREAMS FOR RECREATION OVER THE NEXT SEVERAL WEEKS SHOULD BE ESPECIALLY CAUTIOUS OF VERY HAZARDOUS CONDITIONS. RIVERS AND STREAMS WILL BE VERY COLD...SWIFT AND TURBULENT...WITH DANGEROUS FLOATING DEBRIS.

FOLLOWING ARE THE FORECASTS...ALL STAGES IN FEET...

FOR THE WEST WALKER RIVER BELOW LITTLE WALKER RIVER NEAR COLEVILLE ...AT 1PM FRIDAY THE STAGE WAS 5.8 FEET...WHICH IS 0.7 FOOT BELOW THE UNOFFICIAL 6.5 FOOT FLOOD STAGE. IT IS EXPECTED TO RISE TO NEAR 6.5 FEET SATURDAY MORNING...AND THEN FLUCTUATE NEAR 6.0 FEET THROUGH SATURDAY AFTERNOON. AREAS OF MINOR LOWLAND FLOODING SHOULD BE EXPECTED IN THE ANTELOPE VALLEY...WALKER...COLEVILLE AND TOPAZ AREA UNTIL FURTHER NOTICE. FLOODING WILL BE LIMITED TO LOWLANDS... PASTURE AND SOME RURAL ROADS ALONG THE RIVER...ALTHOUGH SOME LOW-LYING STRUCTURES MAY BE AFFECTED.

FOR THE WEST WALKER RIVER NEAR WELLINGTON...AT 2PM FRIDAY THE STAGE WAS 7.3 FEET...WHICH IS 0.2 FOOT BELOW THE UNOFFICIAL 7.5 FOOT FLOOD STAGE. IT IS EXPECTED TO FLUCTUATE NEAR 7.5 FEET THROUGH SATURDAY EVENING. AREAS OF MINOR LOWLAND FLOODING SHOULD BE EXPECTED IN THE SMITH VALLEY-WELLINGTON AREA UNTIL FURTHER NOTICE. FLOODING WILL BE LIMITED TO LOWLANDS...PASTURE AND SOME RURAL ROADS ALONG THE RIVER...ALTHOUGH SOME LOW-LYING STRUCTURES MAY BE AFFECTED.

FOR THE EAST WALKER RIVER NEAR BRIDGEPORT...AT 1230 PM FRIDAY THE STAGE WAS 5.2 FEET...0.5 FEET BELOW THE UNOFFICIAL 5.7 FOOT FLOOD STAGE. IT IS EXPECTED TO REMAIN NEAR 5.3 FEET THROUGH SATURDAY. ONLY LOCALIZED MINOR LOWLAND FLOODING EXPECTED ON THE EAST WALKER.

FOR THE WALKER RIVER NEAR WABUSKA...AT 230 PM FRIDAY THE STAGE WAS 10.0 FEET...0.3 FOOT ABOVE THE UNOFFICIAL 9.7 FOOT FLOOD STAGE. IT IS EXPECTED TO CONTINUE TO RISE SLOWLY TO NEAR 10.2 FEET BY SATURDAY AFTERNOON. AREAS OF MINOR LOWLAND FLOODING SHOULD BE EXPECTED IN THE MASON VALLEY...YERINGTON AND WABUSKA AREAS UNTIL FURTHER NOTICE. FLOODING WILL BE LIMITED TO LOWLANDS...PASTURE AND SOME RURAL ROADS ALONG THE RIVER...ALTHOUGH SOME LOW-LYING STRUCTURES MAY BE AFFECTED.

FOR THE WALKER RIVER BELOW WEBER DAM AT SCHURZ...AT NOON FRIDAY THE STAGE WAS 6.2 FEET...1.8 FEET BELOW THE UNOFFICIAL 8.0 FOOT FLOOD STAGE. IT IS EXPECTED TO FLUCTUATE NEAR 6.2 FEET THROUGH SATURDAY AFTERNOON. NO FLOODING IS OCCURRING AT THIS TIME. HOWEVER... SOME AREAS OF MINOR LOWLAND FLOODING SHOULD BE EXPECTED IN THE SCHURZ AREA BY NEXT WEEK AS RESERVOIR RELEASES ARE INCREASED. FLOODING WILL BE LIMITED TO LOWLANDS...PASTURE AND RURAL ROADS ALONG THE RIVER.

THESE RIVER FORECASTS ARE BASED ON CURRENT FORECAST RAINFALL AND TEMPERATURE CONDITIONS. IF ACTUAL CONDITIONS VARY...RIVER CONDITIONS WILL VARY ACCORDINGLY. RIVER FORECASTS INCLUDE CURRENT AND PLANNED RESERVOIR RELEASES.

REAL-TIME STAGE AND FLOW INFORMATION FOR MANY RIVERS AND STREAMS IN EASTERN CALIFORNIA AND NEVADA IS AVAILABLE FROM USGS ON THE INTERNET AT: [HTTP://WATERDATA.USGS.GOV/NWIS/](http://waterdata.usgs.gov/nwis/) ...IN LOWER CASE.

THE NEXT FORECAST UPDATE FOR THESE LOCATIONS WILL BE ISSUED BY SATURDAY AFTERNOON.

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GEB

<u>Flood Statement</u>		
RNOFLSREV	KREV	WGUS85
WMO Header	WGUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM -or- CAZXXX-DDHHMM	
MND Heading	Flood Statement	
Issuance Time	As needed	
Valid Time	N/A	

Description:

The Flood Statement is issued for river forecast points that are experiencing flooding or to update a flood warning. The product will detail when crests are forecast to occur and a forecast of river levels for the next 6 days.

WGUS85 KREV 241744
FLSREV
NVC027-242100-

FLOOD STATEMENT
NATIONAL WEATHER SERVICE RENO NV
1045 AM PDT SAT JUN 24 2006

...FLOOD ADVISORY CANCELLED FOR THE HUMBOLDT RIVER IN PERSHING COUNTY ABOVE RYE PATCH DAM...

LOWLAND FLOODING IS NO LONGER EXPECTED ON THE HUMBOLDT RIVER ABOVE RYE PATCH DAM. ON SATURDAY MORNING THE HUMBOLDT RIVER ABOVE RYE PATCH DAM HAD FALLEN SLIGHTLY TO 10.0 FEET...0.2 FEET BELOW THE UNOFFICIAL 10.2 FOOT FLOOD STAGE. IT WILL FLUCTUATE BETWEEN 10.0 AND 10.1 FEET THROUGH SUNDAY...THEN FALL BELOW 10.0 FEET NEXT WEEK.

DO NOT ATTEMPT TO DRIVE ACROSS BRIDGES OR ROADS THAT ARE FLOODED.

REAL-TIME STAGE AND FLOW INFORMATION FOR MANY RIVERS AND STREAMS IN EASTERN CALIFORNIA AND NEVADA IS AVAILABLE FROM USGS ON THE INTERNET AT: [HTTP://WATERDATA.USGS.GOV/NWIS/](http://waterdata.usgs.gov/nwis/)...IN LOWER CASE.

THIS IS THE FINAL STATEMENT FOR THE HUMBOLDT RIVER UNTIL CONDITIONS WARRANT.

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RC

<u>Flash Flood Watch</u>		
RNOFFAREV	KREV	WGUS65
WMO Header	WGUS65 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM -or- CAZXXX-DDHHMM	
MND Heading	Flash Flood Watch	
Issuance Time	As needed	
Valid Time	Until the watch expires.	

Description:

The Flood Watch is issued when the threat for widespread flooding exists from heavy rainfall and/or melting snow combined with heavy rainfall.

WGUS65 KREV 250214
FFAREV

FLOOD WATCH
NATIONAL WEATHER SERVICE RENO NV
714 PM PDT TUE JUL 24 2007

CAZ070>073-NVZ001>005-250315-
/O.CAN.KREV.FF.A.0003.000000T0000Z-070725T0500Z/
/00000.0.ER.000000T0000Z.000000T0000Z.000000T0000Z.OO/
SURPRISE VALLEY CALIFORNIA-LASSEN-EASTERN PLUMAS-
EASTERN SIERRA COUNTIES-GREATER LAKE TAHOE AREA-MONO-
MINERAL AND SOUTHERN LYON COUNTIES-GREATER RENO-CARSON CITY-
MINDEN AREA-WESTERN NEVADA BASIN AND RANGE INCLUDING PYRAMID LAKE-
NORTHERN WASHOE COUNTY-
INCLUDING THE CITIES OF...CEDARVILLE...EAGLEVILLE...
FORT BIDWELL...PORTOLA...SUSANVILLE...WESTWOOD...SIERRAVILLE...
SOUTH LAKE TAHOE...TAHOE CITY...TRUCKEE...MARKLEEVILLE...
BRIDGEPORT...COLEVILLE...LEE VINING...MAMMOTH LAKES...HAWTHORNE...
YERINGTON...SMITH VALLEY...MINA...SCHURZ...GLENBROOK...
INCLINE VILLAGE...SPARKS...VERDI...GARDNERVILLE...FERNLEY...
FALLON...LOVELOCK...SILVER SPRINGS...NIXON...IMLAY...EMPIRE...
GERLACH
714 PM PDT TUE JUL 24 2007

...FLASH FLOOD WATCH IS CANCELLED...

THE FLASH FLOOD WATCH FOR PORTIONS OF CALIFORNIA AND NEVADA HAS
BEEN CANCELLED. SCATTERED SHOWERS AND ISOLATED THUNDERSTORMS WILL
CONTINUE THIS EVENING...ESPECIALLY SOUTH OF HIGHWAY 50.
HOWEVER...RAINFALL RATES WITH SHOWERS AND THUNDERSTORMS HAVE
DIMINISHED SUCH THAT FLOODING IS NOT EXPECTED...THEREFORE THE
FLOOD WATCH HAS BEEN CANCELLED.

\$\$

HTTP://WEATHER.GOV/RENO

Flash Flood Warning		
RNOFFWREV	KREV	WGUS55
WMO Header	WGUS55 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Flash Flood Watch	
Issuance Time	As needed	
Valid Time	Until the warning expires.	

Description:

The Flash Flood Warning is issued when the threat for widespread flash flooding is imminent or occurring. This product is issued on a county basis, similar to a severe thunderstorm or tornado warning.

WGUS55 KREV 252256
FFWREV
CAC051-260200-

BULLETIN - EAS ACTIVATION REQUESTED
FLASH FLOOD WARNING
NATIONAL WEATHER SERVICE RENO NV
352 PM PDT WED JUL 25 2007

THE NATIONAL WEATHER SERVICE IN RENO HAS EXTENDED THE

- * FLASH FLOOD WARNING FOR...
SOUTH CENTRAL MONO COUNTY IN CENTRAL CALIFORNIA...
THIS INCLUDES THE CITY OF MAMMOTH LAKES...
- * UNTIL 700 PM PDT
- * AT 348 PM PDT...TRAINED WEATHER SPOTTERS REPORTED FLASH FLOODING
FROM A THUNDERSTORM OVER THE WARNED AREA. OVER 2 INCHES OF
RAINFALL HAS BEEN REPORTED IN MAMMOTH LAKES.
- * LOCATIONS IN THE WARNING INCLUDE BUT ARE NOT LIMITED TO MAMMOTH
MOUNTAIN...MAMMOTH LAKES...DEADMAN CREEK LEADING INTO CRESTVIEW.

...THIS CONTINUES TO BE A VERY DANGEROUS SITUATION! IF YOU ARE IN A
FLOOD PRONE AREA...HEAD TO HIGHER GROUND NOW!...

DO NOT DRIVE YOUR VEHICLE INTO AREAS WHERE THE WATER COVERS THE
ROADWAY. THE WATER DEPTH MAY BE TOO GREAT TO ALLOW YOUR CAR TO CROSS
SAFELY. MOVE TO HIGHER GROUND.

FLOODING IS OCCURRING. IT IS IMPORTANT TO KNOW WHERE YOU ARE
RELATIVE TO STREAMS...RIVERS...OR CREEKS WHICH CAN BECOME KILLERS IN
HEAVY RAINS. CAMPERS AND HIKERS SHOULD AVOID STREAMS OR CREEKS.

LAT...LON 3755 11910 3755 11888 3777 11888 3775 11912

\$\$

HOON

Flash Flood Statement		
RNOFFSREV	KREV	WGUS75
WMO Header	WGUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Flash Flood Statement	
Issuance Time	As needed	
Valid Time	Until the warning expires.	

Description:

The Flash Flood Statement is issued to follow up or cancel any Flash Flood Warnings that are in effect, and to provide the most updated information possible of the flash flooding threat.

WGUS75 KREV 272337
FFSREV

FLASH FLOOD STATEMENT
NATIONAL WEATHER SERVICE RENO NV
434 PM PDT MON AUG 27 2007

NVC021-272344-
MINERAL NV-
434 PM PDT MON AUG 27 2007

...THE FLASH FLOOD WARNING HAS EXPIRED FOR SOUTH CENTRAL MINERAL COUNTY...

THUNDERSTORMS AND RAINFALL HAVE DECREASED IN THE WARNING AREA AND THE FLASH FLOOD WARNING HAS BEEN ALLOWED TO EXPIRE. MOTORISTS SHOULD USE CAUTION THIS AFTERNOON AS WATER MAY STILL BE ON ROADWAYS.

LAT...LON 3837 11903 3841 11831 3815 11829 3815 11842
3813 11844 3813 11861 3812 11863 3812 11871
TIME...MOT...LOC 2258Z 180DEG 0KT 3827 11876

Areal Flood Warning		
RNOFLWREV	KREV	WGUS45
WMO Header	WGUS45 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Flood Warning	
Issuance Time	As needed	
Valid Time	Until the warning expires.	

Description:

Areal flood warnings are issued when overland flooding result from rain or a combination of rain and snow melt.

<u>Flood Statement for Areal Flood Warning</u>		
RNOFLSREV	KREV	WGUS85
WMO Header	WGUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Areal Flood Statement	
Issuance Time	As needed	
Valid Time	Until the warning expires.	

Description:

Flood statements for areal flood warnings will describe the overland flooding threat and when waters may recede.

<u>Urban and Small Stream Flood Advisory</u>		
RNOFLSREV	KREV	WGUS85
WMO Header	WGUS85 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Flood Statement	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Urban and Small Stream Flood Advisory is issued when flooding is a threat to urban areas or small streams, but the effects are not expected to be life threatening.

NWS Reno Products and Media Guide

Products Relating to Reduced Visibilities:

- Dense Fog Advisory
(RNONPWREV)
- Freezing Fog Advisory
(RNONPWREV)
- Blowing Dust Advisory
(RNONPWREV)
- Dust Storm Warning
(RNODSWREV)

<u>Dense Fog Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Dense Fog Advisory is issued when widespread visibilities are at or below ¼ mile for an extended period of time. If temperatures are below freezing, ice will likely form on bridges and overpasses creating icy roads as well.

<u>Freezing Fog Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Freezing Fog Advisory is issued when widespread visibilities are at or below ¼ mile for an extended period of time. Rime ice is also expected to accumulate in the areas where the advisory has been issued.

<u>Blowing Dust Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Blowing Dust Advisory is issued when widespread visibilities are at or below 1 mile but above ¼ mile due to blowing dust for any extended period of time.

<u>Dust Storm Warning</u>		
RNODSWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Dust Storm Warning is issued during prolonged dry periods when strong winds can produce widespread visibilities in blowing dust at or below ¼ mile for any extended period of time.

NWS Reno Products and Media Guide

Products Relating to Heat, Cold and Wind:

- Heat Advisory (RNONPWREV)
- Frost Advisory (RNONPWREV)
- Freeze Warning (RNONPWREV)
- Wind Chill Warning (RNOWSWREV)
- Wind Advisory (RNONPWREV)
- High Wind Watch (RNONPWREV)
- High Wind Warning (RNONPWREV)

<u>Heat Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

A Heat Advisory may be issued when either of these two criteria is expected to be met (typically in valley locations, below 5000 feet):

- Max Temperature expected to reach or exceed 105 degrees (no Min Temperature requirement) for at least 2 consecutive days.
- Max Temperature expected to reach or exceed 100 degrees and Min Temperature at or above 70 degrees for at least 2 consecutive days.

WWUS75 KREV 071002
NPWREV

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
256 AM PDT SAT JUL 7 2007

NVZ001-004-072300-
/O.CON.KREV.HT.Y.0001.000000T0000Z-070708T0200Z/
MINERAL AND SOUTHERN LYON COUNTIES-
WESTERN NEVADA BASIN AND RANGE INCLUDING PYRAMID LAKE-
INCLUDING THE CITIES OF...HAWTHORNE...YERINGTON...SMITH VALLEY...
MINA...SCHURZ...FERNLEY...FALLON...LOVELOCK...SILVER SPRINGS...
NIXON...IMLAY
256 AM PDT SAT JUL 7 2007

...HEAT ADVISORY REMAINS IN EFFECT UNTIL 7 PM PDT THIS EVENING...

A HEAT ADVISORY REMAINS IN EFFECT UNTIL 7 PM PDT THIS EVENING.

STRONG HIGH PRESSURE OVER THE GREAT BASIN WILL PRODUCE VERY HOT CONDITIONS IN THE VALLEYS OF WEST CENTRAL NEVADA TODAY. HIGH TEMPERATURES TODAY WILL APPROACH 105 DEGREES IN MANY AREAS...POSSIBLY SETTING SOME NEW RECORD HIGHS.

A HEAT ADVISORY MEANS THAT A PERIOD OF VERY HOT TEMPERATURES WILL OCCUR. DRINK PLENTY OF WATER...WEAR LOOSE LIGHT COLORED CLOTHING AND STAY OUT OF DIRECT SUNSHINE. LIMIT PHYSICAL ACTIVITY AND REMAIN IN COOL SHADED AREAS OR AIR CONDITIONED ROOMS DURING THE AFTERNOON AND EARLY EVENING. KEEP CLOSE WATCH OVER CHILDREN...THE ELDERLY AND PETS FOR HEAT RELATED SYMPTOMS.

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<u>Frost Advisory</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Frost Advisory is issued if winds are light and overnight low temperatures drop into the lower to middle 30s during the growing season. Frost develops under conditions similar to dew, except temperatures at the surface fall to freezing. Just above the surface, temperatures may be warmer. Frost Advisories are currently not issued by WFO Reno.

<u>Freeze Warning</u>		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

A Freeze Warning is issued when widespread temperatures below 32 degrees occur for the first time in the fall season (or during the late spring or summer after the start of the growing season) over urban and agricultural areas. Typically colder non-agricultural areas such as low lying drainage basins, mountains, and high elevation valleys do not require the issuance of a freeze warning.

Wind Chill Warning		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

Wind Chill Warning criteria varies by elevation:

- For areas below 7000 feet:
 - Wind chill values are expected to be below -20 degrees F (must occur with at least 10 mph of wind) for at least an hour.
- For areas above 7000 feet: (only applies to populated areas and ski resorts)
 - Wind chill values are expected to be below -35 degrees F (must occur with at least 10 mph of wind) for at least an hour.

Note: If a Winter Storm Warning or Blizzard Warning is currently in effect, a Wind Chill Warning is not required.

Wind Advisory/Lake Wind Advisory		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The Wind Advisory is issued when sustained wind speeds of 30-39 mph or greater that will persist for three hours or longer, or for any gusts greater than 45-57 mph.

A Lake Wind Advisory is issued when sustained wind of 20 mph or gusts up to 30 mph over lake surfaces are expected for over 3 hours.

WWUS75 KREV 182247
NPWREV

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
347 PM PDT SAT AUG 18 2007

CAZ072-073-NVZ002-004-190700-
/O.NEW.KREV.LW.Y.0006.070819T1600Z-070820T0200Z/
/O.CON.KREV.LW.Y.0005.000000T0000Z-070819T0400Z/
GREATER LAKE TAHOE AREA-MONO-
WESTERN NEVADA BASIN AND RANGE INCLUDING PYRAMID LAKE-
INCLUDING THE CITIES OF...SOUTH LAKE TAHOE...TAHOE CITY...
TRUCKEE...MARKLEEVILLE...BRIDGEPORT...COLEVILLE...LEE VINING...
MAMMOTH LAKES...GLENBROOK...INCLINE VILLAGE...FERNLEY...FALLON...
LOVELOCK...SILVER SPRINGS...NIXON...IMLAY
347 PM PDT SAT AUG 18 2007

...LAKE WIND ADVISORY REMAINS IN EFFECT UNTIL 9 PM PDT THIS
EVENING...

...LAKE WIND ADVISORY IN EFFECT FROM 9 AM TO 7 PM PDT SUNDAY...

THE NATIONAL WEATHER SERVICE IN RENO HAS ISSUED A LAKE WIND
ADVISORY...WHICH IS IN EFFECT FROM 9 AM TO 7 PM PDT SUNDAY. A
LAKE WIND ADVISORY REMAINS IN EFFECT UNTIL 9 PM PDT THIS EVENING.

SOUTHWEST WINDS OF 15 TO 25 MPH WITH GUSTS TO 35 MPH WILL CAUSE
ROUGH CHOP ON AREA LAKES. SMALL BOATS WILL BE PRONE TO CAPSIZING
AND SHOULD REMAIN OFF LAKE WATERS.

STRONG WINDS WILL OCCUR AGAIN ON SUNDAY. SOUTHWEST WINDS OF 15 TO
25 MPH WITH GUSTS TO 35 MPH WILL DEVELOP BY LATE SUNDAY MORNING...
CAUSING ROUGH CHOP ON AREA LAKES. SMALL BOATS WILL BE PRONE TO
CAPSIZING AND SHOULD REMAIN OFF LAKE WATERS UNTIL CONDITIONS
IMPROVE.

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High Wind Watch		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The High Wind Watch is issued for the potential for sustained winds of 40 mph or higher for one hour and/or gusts to 58 mph or greater. A watch may be issued from 6 to 24 hours in advance of the occurrence of the event.

WWUS75 KREV 112240
NPWREV

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
229 PM PST SAT NOV 11 2006

...STRONG WINDS EXPECTED MONDAY OVER THE NORTHERN SIERRA AND WESTERN NEVADA...

CAZ070>072-NVZ002-003-005-121300-
/O.NEW.KREV.HW.A.0005.061113T1400Z-061114T0600Z/
SURPRISE VALLEY CALIFORNIA-LASSEN-EASTERN PLUMAS-
EASTERN SIERRA COUNTIES-GREATER LAKE TAHOE AREA-GREATER RENO-
CARSON CITY-MINDEN AREA-NORTHERN WASHOE COUNTY-
INCLUDING THE CITIES OF...CEDARVILLE...EAGLEVILLE...
FORT BIDWELL...PORTOLA...SUSANVILLE...WESTWOOD...SIERRAVILLE...
SOUTH LAKE TAHOE...TAHOE CITY...TRUCKEE...MARKLEEVILLE...
GLENBROOK...INCLINE VILLAGE...SPARKS...VERDI...GARDNERVILLE...
EMPIRE...GERLACH
228 PM PST SAT NOV 11 2006

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

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

A STRONG PACIFIC JET STREAM WILL BRING GUSTY SOUTHWESTERLY WINDS TO THE NORTHERN SIERRA AND WESTERN NEVADA MONDAY MORNING THROUGH LATE MONDAY EVENING. WINDS WILL INCREASE EARLY MONDAY MORNING AND CONTINUE TO STRENGTHEN THROUGHOUT THE DAY. WIND GUSTS OF OVER 50 TO 60 MPH ARE POSSIBLE IN WESTERN NEVADA AND EASTERN CALIFORNIA VALLEYS WITH GUSTS EXCEEDING 80 MPH OVER THE HIGHEST SIERRA RIDGES. NOW IS THE TIME TO SECURE OR TIE DOWN ANY ITEMS THAT MAY BE VULNERABLE TO STRONG WIND GUSTS.

A HIGH WIND WATCH MEANS THERE IS THE POTENTIAL FOR A HAZARDOUS HIGH WIND EVENT WITH WIND GUSTS OF 58 MPH OR STRONGER. CONTINUE TO MONITOR THE LATEST FORECASTS FROM THE NATIONAL WEATHER SERVICE IN RENO FOR UPDATES.

High Wind Warning		
RNONPWREV	KREV	WWUS75
WMO Header	WWUS75 KREV DDHHMM	
UGC Coding	NVZXXX-DDHHMM –or- CAZXXX-DDHHMM	
MND Heading	Urgent – Weather Message	
Issuance Time	As needed	
Valid Time	Until the advisory expires.	

Description:

The High Wind Warning is issued when sustained winds of 40 mph or higher for one hour and/or gusts to 58 mph or higher are imminent within the next 6 to 12 hours. High profile vehicles such as semi-trailers and mobile homes will be especially vulnerable to the strong winds.

WWUS75 KREV 112240
NPWREV

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE RENO NV
430 PM PST SAT NOV 11 2006

...STRONG WINDS EXPECTED MONDAY OVER THE NORTHERN SIERRA AND
WESTERN NEVADA...

CAZ070>072-NVZ002-003-005-121300-
/O.NEW.KREV.HW.A.0005.061113T1400Z-061114T0600Z/
SURPRISE VALLEY CALIFORNIA-LASSEN-EASTERN PLUMAS-
EASTERN SIERRA COUNTIES-GREATER LAKE TAHOE AREA-GREATER RENO-
CARSON CITY-MINDEN AREA-NORTHERN WASHOE COUNTY-
INCLUDING THE CITIES OF...CEDARVILLE...EAGLEVILLE...
FORT BIDWELL...PORTOLA...SUSANVILLE...WESTWOOD...SIERRAVILLE...
SOUTH LAKE TAHOE...TAHOE CITY...TRUCKEE...MARKLEEVILLE...
GLENBROOK...INCLINE VILLAGE...SPARKS...VERDI...GARDNERVILLE...
EMPIRE...GERLACH
430 PM PST SAT NOV 11 2006

...HIGH WIND WARNING IN EFFECT FROM MONDAY MORNING THROUGH MONDAY
EVENING...

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

A STRONG PACIFIC JET STREAM WILL BRING GUSTY SOUTHWESTERLY WINDS
TO THE NORTHERN SIERRA AND WESTERN NEVADA MONDAY MORNING THROUGH
LATE MONDAY EVENING. WINDS WILL INCREASE EARLY MONDAY MORNING AND
CONTINUE TO STRENGTHEN THROUGHOUT THE DAY. WIND GUSTS OF OVER 50
TO 60 MPH ARE POSSIBLE IN WESTERN NEVADA AND EASTERN CALIFORNIA
VALLEYS WITH GUSTS EXCEEDING 80 MPH OVER THE HIGHEST SIERRA
RIDGES. NOW IS THE TIME TO SECURE OR TIE DOWN ANY ITEMS THAT MAY
BE VULNERABLE TO STRONG WIND GUSTS.

A HIGH WIND WARNING MEANS THERE IS THE LIKELY POTENTIAL FOR A HAZARDOUS
HIGH WIND EVENT WITH WIND GUSTS OF 58 MPH OR STRONGER. CONTINUE TO
MONITOR THE LATEST FORECASTS FROM THE NATIONAL WEATHER SERVICE IN RENO FOR
UPDATES.

Appendix A - Severe Weather Terms and Safety

Tips

Thunderstorms and Lightning

Some thunderstorms can be seen approaching, while others hit without warning. It is important to learn and recognize the danger signs and to plan ahead.

BEFORE:

- Learn the thunderstorm danger signs:
 - Dark, towering, or threatening clouds
 - Distant lightning and thunder
- Have disaster supplies on hand:
 - Flashlight with extra batteries
 - Portable, battery-operated radio and extra batteries
 - First aid kit and manual
 - Emergency food and water
 - Non-electric can opener
 - Essential medicines
 - Cash and credit cards
 - Sturdy shoes

Check for hazards in the yard.

Dead or rotting trees and branches can fall during a severe thunderstorm and cause injury and damage. Make sure that all family members know how to respond after a thunderstorm.

Teach family members how and when to turn off gas, electricity and water.

Teach children how and when to call 9-1-1, police, fire department, and which radio station to tune for emergency information.

Severe Thunderstorm Watches and Warnings

A **severe thunderstorm watch** is issued by the National Weather Service when the weather conditions are such that a severe thunderstorm (damaging winds 58 miles per hour or more, or hail three-fourths of an inch in diameter or greater) is likely to develop. This is the time to locate a safe place in the home and tell family members to watch the sky and listen to the radio or television for more information.

A **severe thunderstorm warning** is issued when a severe thunderstorm has been sighted or indicated by weather radar. At this point, the danger is very serious and everyone should go to a safe place, turn on a battery-operated radio or television, and wait for the "all clear" by the authorities.

Tornadoes are spawned by thunderstorms and **flash flooding** can occur with thunderstorms. When a "severe thunderstorm warning" is issued, review what actions to take under a "tornado warning" or a "flash flood warning."

Develop an emergency communication plan.

In case family members are separated from one another during a thunderstorm (a real possibility during the day when adults are at work and children are at school), have a plan for getting back together.

Ask an out-of-state relative or friend to serve as the "family contact". After a disaster, it's often easier to call long distance. Make sure everyone knows the name, address, and phone number of the contact

person. Contact your local emergency management office or American Red Cross chapter for more information on thunderstorms and lightning.

DURING:

- **If indoors:**

Secure outdoor objects such as lawn furniture that could blow away or cause damage or injury. Listen to a battery operated radio or television for the latest storm information.

Do not handle any electrical equipment or telephones because lightning could follow the wire. Television sets are particularly dangerous at this time.

Avoid bathtubs, water faucets, and sinks because metal pipes can transmit electricity.

- **If outdoors:**

Attempt to get into a building or car.

If no structure is available, get to an open space and squat low to the ground as quickly as possible. (If in the woods, find an area protected by low clump of trees--never stand underneath a single large tree in the open.) Be aware of the potential for flooding in low-lying areas.

Crouch with hands on knees.

Avoid tall structures such as towers, tall trees, fences, telephone lines, or power lines.

Stay away from natural lightning rods such as golf clubs, tractors, fishing rods, bicycles, or camping equipment.

Stay from rivers, lakes, or other bodies of water.

If you are isolated in a level field or prairie and you feel your hair stand on end (which indicates that lightning is about to strike), bend forward, putting your hands on your knees. A position with feet together and crouching while removing all metal objects is recommended. Do not lie flat on the ground.

- **If in a car:**

Pull safely onto the shoulder of the road away from any trees that could fall on the vehicle.

Stay in the car and turn on the emergency flashers until the heavy rains subside.

Avoid flooded roadways.

Estimating the Distance from a Thunderstorm

Because light travels much faster than sound, lightning flashes can be seen long before the resulting thunder is heard. Estimate the number of miles you are from a thunderstorm by counting the number of seconds between a flash of lightning and the next clap of thunder. Divide this number by five.

Important: You are in danger from lightning if you can hear thunder. Knowing how far away a storm is does not mean that you're in danger only when the storm is overhead.

Hail

Hail is produced by many strong thunderstorms. Hail can be smaller than a pea or as large as a softball and can be very destructive to plants and crops. In a hailstorm, take cover immediately. Pets and livestock are particularly vulnerable to hail, so bring animals into a shelter.

AFTER:

Check for Injuries

A person who has been struck by lightning does not carry an electrical charge that can shock other people. If the victim is burned, provide first aid and call emergency medical assistance immediately. Look for burns where lightning entered and exited the body. If the strike cause the victim's heart and breathing to stop, give cardiopulmonary resuscitation (CPR) until medical professionals arrive and take over.

Remember to help your neighbors who may require special assistance--infants, elderly people, and people with disabilities.

Check Infrastructure

Inspect your property for damage.

Report downed utility wires. Drive only if necessary. Debris and washed-out roads may make driving dangerous.

Check for Wildfire

Lightning associated with thunderstorms is a major cause of wildfires. Scan the horizon and look for smoke and call 9-1-1 if smoke is visible.

Tornadoes

What Is A Tornado?

A tornado is a **rotating** column of air in contact with the ground. It is spawned by a thunderstorm and produced when cool air overrides a layer of warm air, forcing the warm air to rise rapidly. The damage from a tornado is a result of the high wind velocity and wind-blown debris. While tornadoes can and do occur in our region, they are rare.

Tornadoes tend to occur in the afternoons and evenings: over 80 percent of all tornadoes strike between noon and midnight.

When a tornado threatens, individuals need to have a safe place to go and time to get there. Even with advances in meteorology, warning times may be short or sometimes not possible. Lives are saved when individuals receive and understand the warning, know what to do, and know the safest place to go.

Before a Tornado: How to Plan

Conduct tornado drills each tornado season. Designate an area in the home as a shelter, and practice having everyone in the family go there in response to a tornado threat. Discuss with family members the difference between a "tornado watch" and a "tornado warning." Contact your local emergency management office or American Red Cross chapter for more information on tornadoes.

Develop an emergency communication plan

In case family members are separated from one another during a tornado (a real possibility during the day when adults are at work and children are at school), have a plan for getting back together.

Ask an out-of-state relative or friend to serve as the "family contact." After a disaster, it's often easier to call long distance. Make sure everyone in the family knows the name, address, and phone number of the contact person.

Tornado Watches and Warnings

A *tornado watch* is issued by the National Weather Service when tornadoes are possible in your area. Remain alert for approaching storms. This is time to remind family members where the safest places within your home are located, and listen to the radio or television for further developments.

A *tornado warning* is issued when a tornado has been sighted or indicated by weather radar.

Mobile Homes

Mobile homes are particularly vulnerable. A mobile home can overturn very easily even if precautions have been taken to tie down the unit. When a tornado warning is issued, take shelter in a building with a strong foundation. If shelter is not available, lie in ditch or low-lying area a safe distance away.

Tornado Danger Signs

Learn these tornado danger signs:

An approaching cloud of debris can mark the location of a tornado even if a funnel is not visible.

Before a tornado hits, the wind may die down and the air may become very still. Tornadoes generally occur near the trailing edge of a thunderstorm. It is not uncommon to see clear, sunlit skies behind a tornado.

Floods and Flash Floods

Floods are among the most frequent and costly of natural disasters, both in terms of hardship and economic loss. As much as 90 percent of the damage related to natural disasters is caused by floods. On the average, each year over 300,000 Americans are driven from their homes by floods; 140 persons are killed; and around \$5 billion worth of property is damaged or destroyed.

Floods in Our Region

Most of our flooding is the result of snowmelt. Although recent years have seen an increase in Summer flash floods caused by heavy rains from thunderstorms. Factors that determine the degree of spring time flooding include:

- above normal soil moisture during the late fall season
- greater than normal winter precipitation
- depth of frost that inhibits infiltration of water into the ground
- late development of spring thaw
- spring thaw and spring rains occurring at the same time
- ice jams

Flood Safety Rules

- **Before the flood:**
 - Keep materials on hand such as sandbags, plywood, plastic sheeting and lumber.
 - Keep first aid supplies at hand.
 - Keep a stock of food that requires little cooking and no refrigeration; electric power may be lost.
 - Keep a portable radio, emergency cooking equipment, lights and flashlights in working order.
 - Know your elevation above flood stage.
- **When you receive a flood warning:**
 - Store drinking water in clean bathtubs and in various containers. Water service may be interrupted.
 - If forced to leave your home, and time permits, move essential items to safe ground; fill fuel tanks to keep from floating away; grease immovable machinery.
- **During a flood: TURN AROUND...DON'T DROWN!**
 - Avoid areas subject to sudden flooding.
 - Do not attempt to cross a flowing stream where water is above your knees.
 - Do not attempt to drive over a flooded road - you can be stranded or trapped. The depth of water is not always obvious. As little as 2 feet of water can wash away most cars.



- **After a flood:**

- Do not use fresh food that has come in contact with flood waters.
- Boil drinking water before using. Wells should be pumped out and the water tested for purity before drinking.
- Do not visit disaster areas; your presence might hamper rescue and other emergency operations. STAY CLEAR and STAY SAFE!



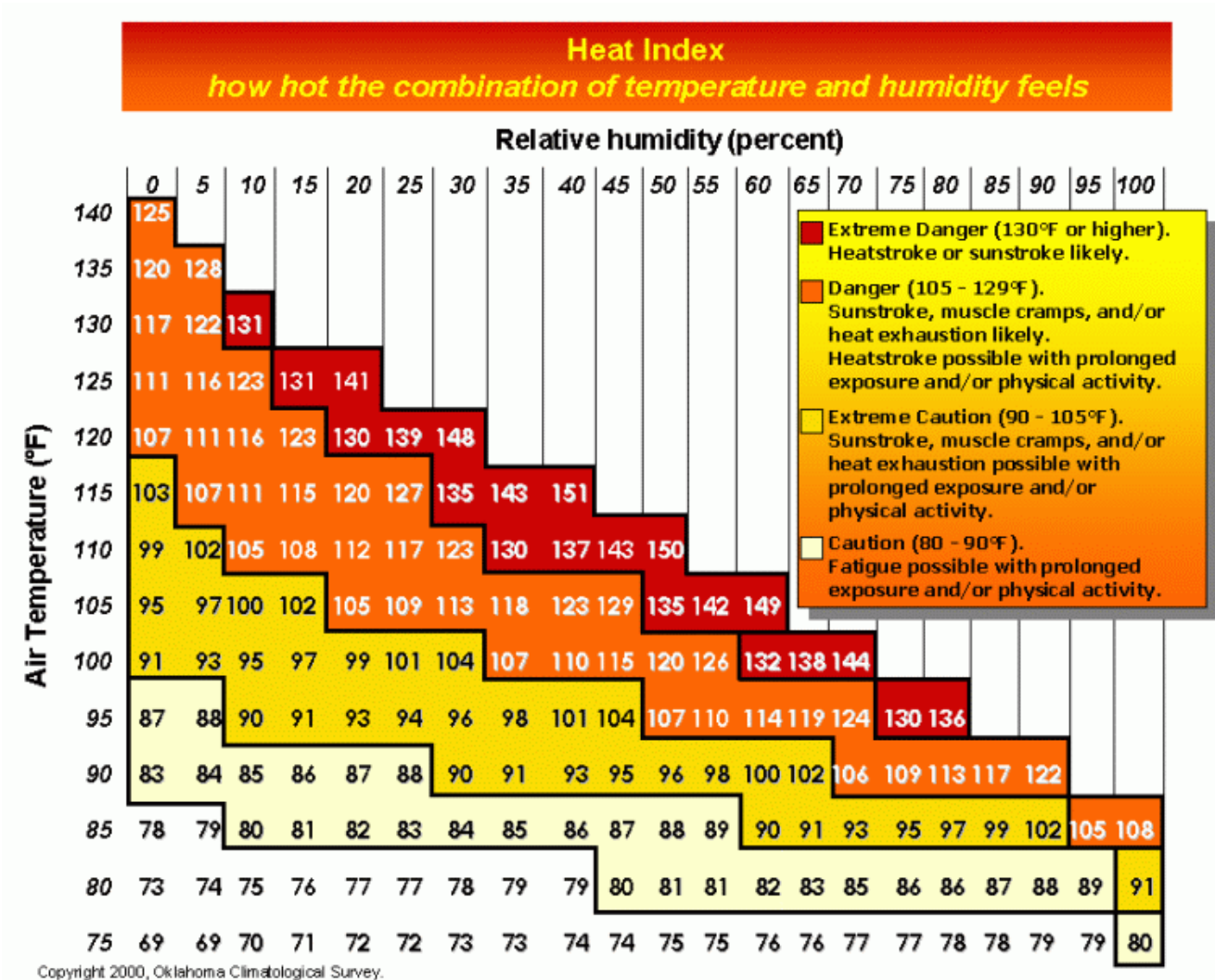
Appendix B- Extreme Heat and Safety Tips

Heat can kill by pushing the human body beyond its limits. Under normal conditions, the body's internal thermostat produces perspiration that evaporates and cools the body. However, in extreme heat and high humidity, evaporation is slowed and the body must work extra hard to maintain a normal temperature. Elderly people, young children, and those who are sick or overweight are more likely to become victims of extreme heat.

The duration of excessive heat plays an important role in how people are affected by a heat wave. Studies have shown that a significant rise in heat-related illnesses happens when excessive heat lasts more than two days.

Heat Index (Apparent Temperature) Chart

The **Heat Index** (HI) is the temperature the body feels when heat and humidity are combined. The chart below shows the HI that corresponds to the actual air temperature and relative humidity. (NOTE: This chart is based upon shady, light wind conditions. **Exposure to direct sunlight can increase the HI by up to 15°F.**)



Awareness Information:

- **Heat exhaustion:** Cool, moist, pale, or flushed skin; heavy sweating; headache; nausea or vomiting; dizziness; and exhaustion. Body temperature may be normal, or is likely to be rising.
- **Heat stroke:** Hot, red skin; changes in consciousness; rapid, weak pulse; and rapid, shallow breathing. Body temperature can be very high -sometimes as high as 105 degrees F. If the person was sweating from heavy work or exercise, skin may be wet; otherwise, it will feel dry.

How to Treat a Heat Emergency:

- **Heat stroke:** Heat stroke is a life-threatening situation. Help is needed fast. Call 9-1-1 or your local emergency number. Move the person to a cooler place. Quickly cool the body. Immerse victim in a cool bath, or wrap wet sheets around the body and fan it. Watch for signals of breathing problems. Keep the person lying down and continue to cool the body any way you can. If the victim refuses water, is vomiting, or there are changes in the level of consciousness, do not give anything to eat or drink.
- **Heat cramps:** Get the person to a cooler place and have him or her rest in a comfortable position. Lightly stretch the affected muscle and replenish fluids. Give a half glass of cool water every 15 minutes. Do not give liquids with alcohol or caffeine in them, as they can cause further dehydration, making conditions worse.
- **Heat exhaustion:** Get the person out of the heat and into a cooler place. Remove or loosen tight clothing and apply cool, wet cloths, such as towels or sheets. If the person is conscious, give cool water to drink. Make sure the person drinks slowly. Give a half glass of cool water every 15 minutes. Let the victim rest in a comfortable position, and watch carefully for changes in his or her condition.

What to Do During Extreme Heat:

- **Slow down. Avoid strenuous activity.** Reduce, eliminate or reschedule strenuous activities. High-risk individuals should stay in cool places. Get plenty of rest to allow your natural "cooling system" to work. If you must do strenuous activity, do it during the coolest part of the day, which is usually in the morning between 4:00 a.m. and 7:00 a.m. Many heat emergencies are experienced by people exercising or working during the hottest part of the day.
- **Avoid extreme temperature changes.** A cool shower immediately after coming in from hot temperatures can result in hypothermia, particularly for elderly and very young people.
- **Dress appropriately:** Wear loose-fitting, lightweight, light-colored clothing that will cover as much skin as possible. Lightweight, light-colored clothing reflects heat and sunlight and helps maintain normal body temperature. Cover as much skin as possible to avoid sunburn and over-warming effects of sunlight on your body.
- **Protect face and head by wearing a wide-brimmed hat.** A hat will keep direct sunlight off your head and face. Sunlight can burn and warm the inner core of your body.
- **Drink plenty of fluids even if you do not feel thirsty.** Injury and death can occur from dehydration, which can happen quickly and unnoticed. Symptoms of dehydration are often confused with other causes. Persons who have epilepsy or heart, kidney, or liver disease; who are on fluid-restrictive diets; or who have a problem with fluid retention should consult a doctor before increasing liquid intake.
- **Take frequent breaks if you must work outdoors.** Frequent breaks, especially in a cool area or to drink fluids, can help people tolerate heat better.

- **Drink plenty of water regularly and often.** Your body needs water to keep cool. Water is the safest liquid to drink during heat emergencies.
- **Avoid drinks with alcohol or caffeine in them.** They can make you feel good briefly, but make the heat's effects on your body worse. This is especially true about beer, which actually dehydrates the body.
- **Eat small meals and eat more often.** Large, heavy meals are more difficult to digest and cause your body to increase internal heat to aid digestion, worsening overall conditions. Avoid foods that are high in protein, such as meats and nuts, which increase metabolic heat.
- **NEVER leave children or pets alone in closed vehicles.** Temperatures inside a closed vehicle can reach over 140 degrees F within minutes. Exposure to such high temperatures can kill in minutes.

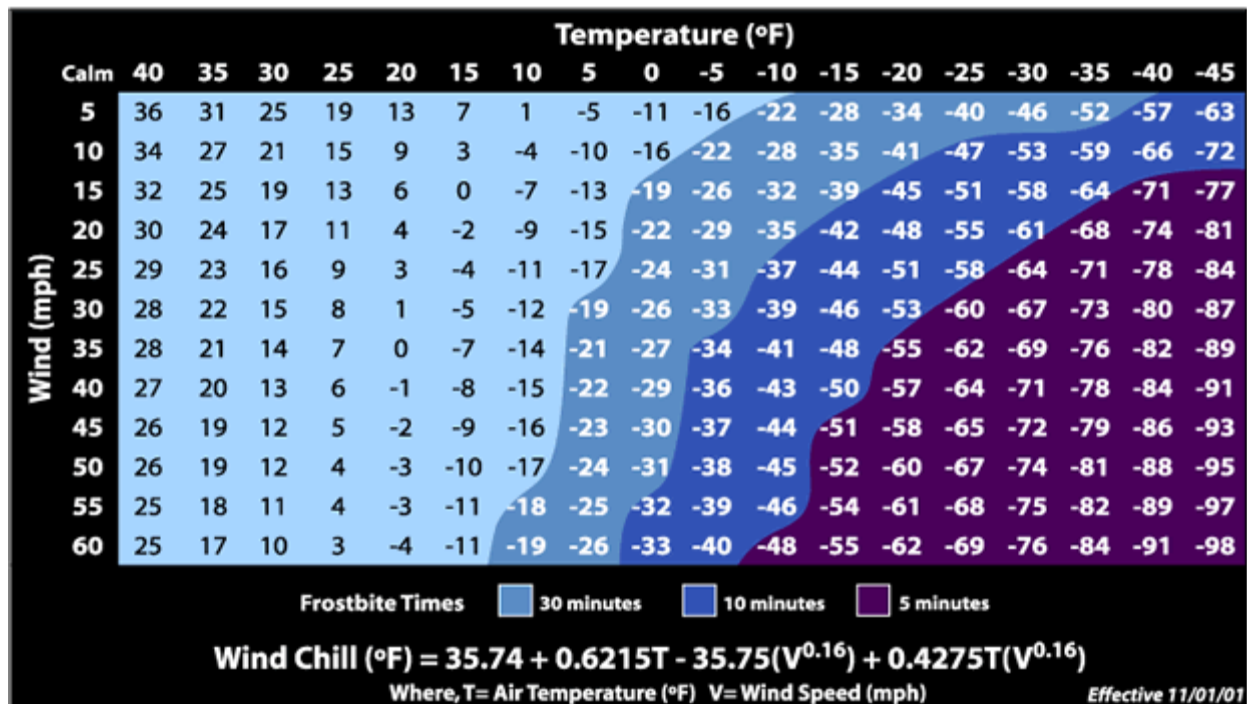
Appendix C - Extreme Cold and Safety Tips

What is wind chill temperature?

The wind chill temperature is how cold people and animals feel when outside. Wind chill is based on the rate of heat loss from exposed skin caused by wind and cold. As the wind increases, it draws heat from the body, driving down skin temperature and eventually the internal body temperature. Therefore, the wind makes it FEEL much colder. If the temperature is 0 degrees Fahrenheit and the wind is blowing at 15 mph, the wind chill is -19 degrees Fahrenheit. At this wind chill temperature, exposed skin can freeze in 30 minutes.



Wind Chill Chart



The Dangers of Wind Chill:

In 2001, NWS implemented an updated Wind Chill Temperature (WCT) index. The change improves upon the former WCT Index used by the NWS and the Meteorological Services of Canada, which was based on the 1945 Siple and Passel Index. The current formula uses advances in science, technology, and computer modeling to provide a more accurate, understandable, and useful formula for calculating the dangers from winter winds and freezing temperatures.

What is FROSTBITE?

You have frostbite when your body tissue freezes. The most susceptible parts of the body are fingers, toes, ear lobes, or the tip of the nose. Symptoms include a loss of feeling in the extremity and a white or pale appearance. Get Medical attention immediately for frostbite. The area should be **SLOWLY** rewarmed.

What is HYPOTHERMIA?

Hypothermia occurs when body temperature falls below 95 degrees Fahrenheit. Determine this by taking your temperature. Warning signs include uncontrollable shivering, memory loss, disorientation, incoherence, slurred speech, drowsiness, and exhaustion. **Get medical attention immediately.** If you can't get help quickly, begin warming the body **SLOWLY**. Warm the body core first, **NOT** the extremities. Warming extremities first drives the cold blood to the heart and can cause the body temperature to drop further--which may lead to heart failure. Get the person into dry clothing and wrap in a warm blanket covering the head and neck. Do not give the person alcohol, drugs, coffee, or any **HOT** beverage or food. **WARM** broth and food is better. About 20% of cold related deaths occur in the home. Young children under the age of two and the elderly, those more than 60 years of age, are most susceptible to hypothermia. Hypothermia can set in over a period of time. Keep the thermostat above 69 degrees Fahrenheit, wear warm clothing, eat food for warmth, and drink plenty of water (or fluids other than alcohol) to keep hydrated. *Note: Alcohol will lower your body temperature.*

Tips on How to Dress During Cold Weather

The best way to avoid hypothermia and frostbite is to stay warm and dry indoors. When you must go outside, dress appropriately. Wear several layers of loose-fitting, lightweight, warm clothing. Trapped air between the layers will insulate you. Remove layers to avoid sweating and subsequent chill. Outer garments should be tightly woven, water repellent, and hooded. Wear a hat, because half of your body heat can be lost from your head. Cover your mouth to protect your lungs from extreme cold. Mittens, snug at the wrist, are better than gloves. Try to stay dry and out of the wind.

Avoid Overexertion

Your heart is already working overtime in cold weather. The strain from the cold and the hard labor of shoveling heavy snow, walking through drifts or pushing a car may cause a heart attack. Sweating from overexertion could lead to a chill and hypothermia.

Web site for more weather safety tips visit: <http://www.nws.noaa.gov/om/winter/>

Appendix D - Glossary and Terminology:

The following is broken down into eight basic areas for easier understanding:

1. Precipitation Probabilities: What do they mean?
2. Sky Conditions Terms
3. Wind Terms
4. Other NWS Forecast Icons
5. Warm Season Weather Terms
6. Cold Season Weather Terms
7. Non-Precipitation Weather Terms
8. General Weather Terms

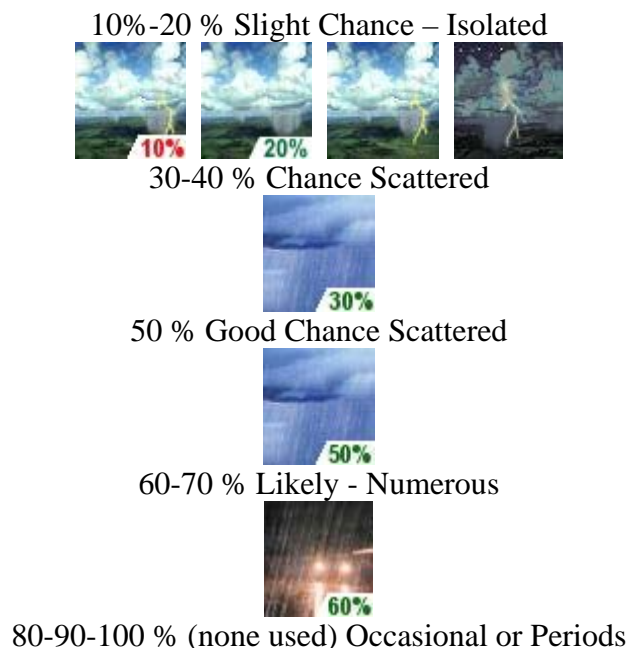
1. Precipitation Probabilities: What do they mean?

Technically, the Probability of Precipitation (POP) is defined as the likelihood of occurrence (expressed as a percent) of a measurable amount of liquid precipitation (or water equivalent of frozen precipitation) during a specified period of time at any given point in the forecast area. Measurable precipitation is 0.01 inch (0.2 mm) or greater and the period of time is 12 hours, unless specified otherwise.

Example: If the forecast calls for a 40 percent chance of rain for a particular county then any given point in that county has a 4 in 10 chance of at least 0.01 inch of rain. It does not necessarily mean that 40 percent of the county will receive 0.01 inch of rain. It does mean that for the given weather pattern, 4 times out of 10, there will be at least 0.01 inch of rain somewhere in the county (it may be one point or even the entire county).

The following are precipitation probabilities used by the National Weather Service and a brief explanation of each.

POP Percent Expressions of Uncertainty Areal Qualifiers





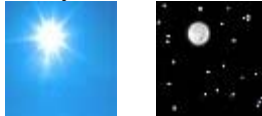
2. Sky Condition Terms:

Most forecasts include information about the state of the sky. However, it may be omitted if its inclusion would unnecessarily complicate or lengthen a forecast or can be inferred from the precipitation forecast.

Below are the basic terms the National Weather Service uses to describe sky condition:

Predominant or Average Descriptive Term Opaque Cloud Cover

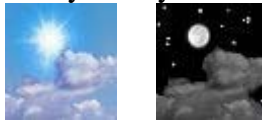
Clear or Sunny = 0/10 to 1/10 coverage



Mostly Sunny or Mostly Clear = 1/10 to 3/10 coverage



Partly Cloudy or Partly Sunny = 3/10 to 7/10 coverage



Mostly Cloudy = 7/10 to 8/10 coverage



Cloudy = 9/10 to 10/10 coverage



3. Wind Terms:

Wind direction and speed will be included in the zone forecast. The late afternoon zone forecast will include this information for that night and the next day. The early morning zone forecast will add this information for today, tonight and the next day.

The following is a summary of wind direction, speed, and intensity:

A. Direction: Will be with reference from TRUE NORTH and will be given to eight points of the compass.

B. Speed (mph): It is generally not practical to describe all the variations in wind speed, so a range of low-to-high speeds are given. The normal maximum range for sustained wind speeds is in 10 mph increments. Wind speed values are rounded to the nearest 5 mph to keep the forecast simple.

C. Intensity:

Descriptive Term Sustained Wind Speed
 LIGHT or LIGHT AND VARIABLE 0 to 5 mph
 (no term) 5 to 15 mph
 BREEZY, BRISK, BLUSTERY 15 to 25 mph
 WINDY 20 to 30 mph
 VERY WINDY 30 to 40 mph
 STRONG, DANGEROUS, HIGH 40 mph or greater



Note: A high wind warning will be issued for sustained winds of 40 mph or more for 1 hour, or wind gusts 58 mph or greater.

4. Other NWS Forecast Icons

Weather Forecast Icons



5. Warm Season Weather Terms

It is very important that the difference between a Severe Thunderstorm or Tornado WATCH or WARNING be understood. The term WATCH implies that people should be alert for the possibility of severe weather and have a plan of action in case a storm threatens. When a WARNING is issued by the National Weather Service, this means that a severe thunderstorm and/or tornado has been detected by radar or observed by trained storm spotters (SKYWARN). People in the path of the storm are expected to take action to protect life and property when the term WARNING is heard.

Following is a list of watches, warnings and advisories that the National Weather Service issues and the criteria used for issuing them:

Tornado Watch - Conditions are favorable for the development of tornadoes in and close to the watch area. Watches are usually in effect for 6 hours or more.

Tornado Warning - Tornado is indicated by radar or sighted by storm spotters. The warning will include where the tornado was in reference to a larger city and what towns will be in its path.

Severe Thunderstorm Watch - Conditions are favorable for the development of severe thunderstorms in and close to the watch area. Watches last for about 6 hours or more.

Severe Thunderstorm Warning - Issued when a thunderstorm is producing or is expected to produce hail $\frac{3}{4}$ inch or larger and/or winds equal or exceeding 58 mph (50 knots). The warning will include where the severe thunderstorm was in reference to a larger city and what towns will be in its path.

Urban and Small Stream Flood Advisory - Alerts the public to flooding which is generally only an inconvenience (not life-threatening) to those living in the affected area. Issued when heavy rain will cause flooding of streets and low-lying places in urban streams are expected to reach or exceed bankfull. Some damage to homes or roads could occur.

Flood Watch - Indicates that flooding or flash flooding is a possibility in or close to the watch area. Those in the affected area are urged to be ready to take action if a flood warning or flash flood warning is issued or flooding is observed.

Flash Flood Warning - Signifies a dangerous situation where rapid flooding of rivers, small streams, or urban areas occurs. Very heavy rain that falls in a short time period can lead to flooding, depending on local terrain, ground cover, degree of urbanization, degree of man-made changes to river banks, and initial ground or river conditions.

Flood Warning - Signifies a situation where flooding of rivers, streams, or urban areas occurs over an area. Very heavy rain that falls in a short time period can lead to flooding, depending on local terrain, ground cover, degree of urbanization, degree of man-made changes to river banks, and initial ground or river conditions. Rapid snow melt can also cause flooding over a large area.

6. Cold Season Weather Terms

The following advisories will be issued to ALERT the public of situations that may cause difficult, but not impossible traveling conditions. However, in warning situations, travel is very dangerous.

Snow Advisory – See product detail on page 60.

Winter Weather Advisory - Issued when a combination of winter weather events is expected to occur such as snow, blowing snow and very cold wind chill temperatures.

Freezing Rain Advisory - Will be used when less than $\frac{1}{4}$ of an inch of freezing rain is expected.

Blowing Snow Advisory - Issued when wind-driven snow reduces visibility to one half mile and hampers travel. Strong winds create blowing snow by picking up old or new snow.

Winter Storm Watch - Issued when conditions are favorable for the development of hazardous weather elements such as heavy snow and/or blizzard conditions, or significant accumulations of freezing rain. These conditions may occur singly, or in combination with others. Watches are usually issued 24 to 48 hours in advance of the event(s).

Winter Storm Warning - Issued when heavy snow and some windiness is imminent or very likely, perhaps in combination with sleet and/or freezing rain/drizzle. Winter Storm Warnings are usually issued for up to a 12 hour duration, but can be extended out to 24 hours.

Heavy Snow Warning – See product detail on page 59.

Blizzard Warning - Issued for winter storms with sustained winds or frequent gusts to 35 mph or greater. Considerable falling and/or blowing snow must reduce visibility to less than $\frac{1}{4}$ mile for at least 3 hours. (Not currently issued by NWS Reno).

Ice Storm Warning - Issued when damaging accumulations of ice are expected during freezing rain situations, with walking and driving becoming extremely dangerous. Significant ice accumulations are usually $\frac{1}{4}$ inch or greater.

7. Non-Precipitation Terms

The following terms are used to make the public AWARE of weather situations that are not necessarily associated with precipitation, but need to be highlighted.

Dense Fog Advisory - Used when dense fog covers a widespread area and reduces visibility to ¼ mile or less.

Dense Smoke Advisory - Issued when heavy smoke is significantly reducing visibilities and also when the smoke is posing health concerns making it difficult to see and breathe.

Wind Chill Advisory - Informs the public that wind chills will be 25 to 40 below zero for a sustained period of time. Winds are expected to be at least 10 mph or greater.

Frost Advisory - Issued in growing season to indicate formation of widespread frost.

Freeze Warning - used during the growing season when temperatures are expected to drop well below freezing over a large area, regardless of whether frost forms or not.

Wind Chill Warning - Used when wind chill factors are expected to reach 40 below zero Fahrenheit or colder and wind speeds are 10 mph or greater.

Wind Advisory - Sustained winds of 30 mph but less than 40 mph are expected to last for 3 hours or more.

Heat Advisory - Issued when daytime heat indices of 105 degrees Fahrenheit or above are expected along with nighttime low of 80 degrees F or above for two or more consecutive days. This advisory would be issued when the heat becomes an inconvenience, and only a problem for a minor portion of the population.

Heat Index - The apparent temperature that describes the combined effect of high temperatures and high levels of humidity (see chart in this book).

The following terms are used to **WARN** the public on non-precipitation events that could be a threat to life or property.

High Wind Warning - Issued for sustained winds of 40 mph or greater lasting 1 hour or longer, or any wind gust of 58 mph or greater.

Excessive Heat Watch - Issued when conditions are favorable for the development of heat indices in excess of 105 degrees F during the daytime hours in combination with nighttime low temperatures of 80 degrees F or higher, for two consecutive days.

Excessive Heat Warning - Issued when the heat index equals or exceeds 120 degrees Fahrenheit for 3 hours or longer. In these cases, the heat becomes dangerous for a large portion of the population.

8. General Weather Terms

The following are weather terms frequently used by the National Weather Service.
(All temperatures are in Fahrenheit)

Advisory - Highlights special weather conditions that are less serious than a warning. They are for events that may cause significant inconvenience and, if caution is not exercised, could lead to situations that may threaten life and/or property.

AWIPS - Advanced Weather Interactive Processing System. This new high-speed computer work station and communication network is the centerpiece of the modernization of the National Weather Service. AWIPS will continue to help improve the accuracy and timeliness of warnings and forecasts by permitting forecasters to analyze fast-breaking storms and speed up the communication of warnings and forecasts to their customers.

Blizzard - A severe weather condition characterized by, strong winds greater than 35 mph, snow, and blowing snow causing near zero visibility. When these conditions persist after snow has stopped falling, it is called a ground blizzard.

Western Region Headquarters (WRH) - The supervisory office for the 10-state Western Region of the National Weather Service. WRH provides supervisory direction; technical, program and equipment support for NWS field offices.

Climate - The average weather conditions in an area over a period of years (usually a 30-year period computed every 10 years). The climate of an area is composed of many elements, such as temperature, precipitation, wind speed and direction, relative humidity, sunshine, etc. Knowing the average values of these elements at a location for different times of the year, along with the extreme values, is the most common way the climate of a location is described.

County Warning Area and Forecast Area - The area for which a National Weather Service office is responsible for general weather forecast products; including short-term forecasts and severe weather warnings.

Degree-day - Gauges the amount of heating or cooling needed for a building using 65 degrees as a baseline. To compute heating/cooling degree-days, the average temperature for a day is taken and referenced to 65 degrees. An average temperature of 50 yields 15 heating degree-days while an average of 75 would yield 10 cooling degree-days. Electrical, natural gas, power, heating, and air conditioning industries utilize degree-day information to calculate their needs. To compute growing degree-days one would use a reference of 50 degrees. Every degree that is above 50 is a growing degree-day.

Dense Fog Advisory - Used when dense fog covers a widespread area and reduces visibility to ¼ mile or less.

Doppler - The National Weather Service Doppler radar is a Weather Surveillance Radar (WSR-88D) system developed in 1988. About 120 systems have been installed at Weather Forecast Offices across the country. An additional 24 systems will be installed at Department of Defense sites. This powerful and sensitive Doppler system generates many useful products for meteorologist, among them: precipitation intensities, atmospheric air motion, turbulence, and precipitation estimates.

Doppler Effect - Named for German scientist Christian Doppler who discovered the effect. The Doppler effect enables weather service radars to detect motion within and around storms. Doppler found that an object moving toward you will compress light, sound, or radio waves, while an object moving away will elongate them. This change is the frequency change heard with passing planes, trains, etc.

Downburst - A strong downdraft, initiated by a thunderstorm, that induces an outburst of damaging straight-line winds on or near the ground. Downbursts may last from anywhere from a few minutes in small scale microburst on up to 20 minutes or more in larger, longer living larger downbursts, called macrobursts. Wind speeds in downbursts can reach 150 mph, which is in the range of a strong tornado.

Flash Flood - A dangerous and sudden flood that threatens lives and property and usually occurs after heavy rain. May also occur after an ice jam breaks up or after a dam fails.

Flood Stage - The level at which a river leaves its banks.

Flood Plain - The portion of a river valley that has been inundated by the river during historic floods.

Fog - A cloud on the ground that reduces visibility.

Freeze - A condition occurring over a widespread area when the surface air temperature remains below freezing for a time sufficient to cause damage to certain agricultural crops.

Frost - A covering of ice produced by water condensation occurring on surfaces below freezing.

Funnel Cloud - A rotating column of air that does not touch the ground.

Freezing Drizzle/Rain - Describes the effect of drizzle or rain freezing upon impact on objects that have a temperature of 32 degrees or less.

GOES - Geostationary Operational Environmental Satellite. A satellite that observes the United States and adjacent ocean areas from vantage points 22,233 miles above the equator. GOES satellites provide continuous day and night weather observations and detect emergency signals from aircraft, ships and land-based users in distress.

Greenhouse Effect - The effect produced as certain atmospheric gases allow incoming solar radiation to pass through to the Earth's surface, but prevents the outgoing (infrared) radiation, which is re-radiated back to Earth.

Hail - Precipitation in the form of balls or lumps usually consisting of concentric layers of ice. A thunderstorm is classified as severe when it produces hail $\frac{3}{4}$ of an inch or larger in diameter.

Heat Index - The apparent temperature that describes the combined effect of high temperatures and high levels of humidity.

Heavy Snow - In this part of the country, heavy snow is defined as snowfall accumulations of at least 6 inches or more in the lower elevations and at least 8 inches or more in the higher elevations.

Humidity - The amount of water vapor in the air. The higher the temperature, the more water vapor the air can hold.

Hydrology - The science dealing with the waters of the Earth, their distribution on the surface and underground, and the cycle involving evaporation, precipitation, flow to seas, etc.

IFPS - Interactive Forecast Preparation System. This piece of software allows NWS forecasters to provide a gridded forecast of all weather elements. These weather elements are then converted into many different images and text products for the public.

Knot - A unit of speed equal to one nautical mile per hour or 1.15 miles per hour.

Meteorology - The scientific study of the atmospheric and weather.

Macroburst - A thunderstorm downdraft with an affected outflow area of at least 2.5 miles wide and peak winds lasting between 5 and 20 minutes. Intense macrobursts may cause tornado-like damage.

Microburst - A special type of downburst, or downdraft, from a thunderstorm. A microburst is a thunderstorm downdraft with an affected outflow area of less than 2.5 miles wide and peak winds lasting less than 5 minutes. Microbursts may induce dangerous horizontal and vertical wind shears which can adversely affect aircraft performance.

NCDC - National Climatic Data Center. The world's largest active archive of weather data. Data are received from a wide variety of sources and is available by many means of dissemination.

NEXRAD - Next Generation Radar (see Doppler Radar).

NOAA - National Oceanic and Atmospheric Administration. An agency of the Department of Commerce (DOC) that conducts research and gathers data about the global oceans, atmosphere, space, and sun, and applies this knowledge to science and service that benefits the nation. The National Weather Service is one of five major line offices.

NOAA Weather Radio - The voice of the National Weather Service (NWS). It provides continuous broadcasts of the latest weather information directly from NWS offices across the United States. The NOAA Weather Radio broadcast from more than 380 locations throughout the country on high band FM frequencies ranging from 162.40 to 162.55 Megahertz. A special radio receiver, available at electronic stores, is needed to receive the broadcast.

NRC - National Research Council. Organized the National Academy of Sciences in 1916. The council conducted a study for the National Weather Service to review the weather service's modernization effort.

NWS - National Weather Service. A U.S. government agency under NOAA which is under the Department of Commerce. The NWS is responsible for providing the nation with accurate and timely weather, climate and hydrological information for the protection of life and property. This includes severe weather, hurricane and flood watches and warnings, short term weather forecasts and long-lead climate outlooks.

Precipitation - All types of condensed water vapor (whether liquid, freezing or frozen) which fall to the Earth's surface.

Rain - Indicates a nearly steady and uniform fall or precipitation over an area for several hours, as opposed to the term "showers" which implies intermittent and scattered rainfall of a more unstable nature.

Relative Humidity - The amount of water vapor in the air compared with the amount the air can hold at the current temperature. For instance, 50 percent relative humidity means the air can hold half the water vapor that it is capable of holding.

River Basin - The drainage area of a river and its tributaries.

RFC - River Forecast Center. Thirteen regional RFC centers are the first-echelon offices that prepare river and flood forecasts and some warnings for approximately 3,000 communities. The basic product of this service is the flood forecast. This includes forecasts of height of the flood crest, as well as times when the river is expected to overflow its banks (flood stage) and when it will recede within its banks.

Severe Thunderstorm - A thunderstorm that produces either of the following: winds of 58 mph or greater (these speeds can result in structural or tree damage), hail $\frac{3}{4}$ of an inch in diameter or greater, or a tornado.

Sleet - Describes solid grains of ice formed by the freezing of raindrops or the re-freezing of largely melted snowflakes. These grains usually bounce upon impact with the ground or pavement.

Snow Squalls - Short periods of moderate to heavy snowfall accompanied by strong, gusty surface winds and possibly lightning. Snow accumulation may be significant.

Snow Showers - A short duration of moderate snowfall. Some accumulation is possible.

Snow Flurries - Intermittent light snowfall of short duration with no measurable accumulation.

Temperature - The degree of hotness or coldness of the ambient air as measured by any suitable instrument.

Tornado - A violently rotating column of air that is touching the ground. The visible cloud portion of a tornado may not extend all the way to the ground.

UV Index - Ultraviolet Index. Forecast of the ultraviolet intensity at the Earth's surface over the one hour period around midday. Ultraviolet exposure levels are presented on a scale of zero (minimal) to over ten (very high).

U.S. Department of Commerce - This cabinet-level agency has the mission of improving the economic opportunities of Americans. It focuses on three paths to enhance the country's trading position: The National Export Strategy; the dynamic development of civilian technology; and sustained economic growth.

Warning - Issued to warn the public that a hazardous weather element is imminent or has a very high probability of occurrence.

Watch - Alerts the public to the possibility of severe weather, or some other hazardous weather element. It is intended to provide enough lead time so those who need to set their plans in motion can do so.

Wind Chill - An apparent temperature that describes the combined effect of wind and low air temperatures on exposed skin.

Appendix E - Advanced Hydrologic Prediction Services (AHPS)

<http://www.cnrfc.noaa.gov/>

What is AHPS?

Advanced Hydrologic Prediction Services (AHPS) are a new and essential component of our Climate, Water, and Weather Services. AHPS is a web-based suite of accurate and information-rich forecast products. They display the magnitude and uncertainty of occurrence of floods or droughts, from hours to days and months, in advance. These graphical products are useful information and planning tools for many economic and emergency managers. These new products will enable government agencies, private institutions, and individuals to make more informed decisions about risk based policies and actions to mitigate the dangers posed by floods and droughts.

Why AHPS?

Weather influences our economic and social lives in many ways. Severe weather can have impact on revenues and profits of businesses, large and small. Weather can also disrupt and disorganize communities. As our nation's population grows and infrastructure costs increase, natural disasters can threaten social stability. Weather forecasting was initially developed in response to the need of societies to protect themselves from storms, severe heat and cold, floods, etc., and minimize consequent economic losses. It is estimated that inland flooding claims 133 lives and property losses from flooding exceed \$4 billion in an average year in the U.S. The National Weather Service (NWS) is our nation's agency entrusted with the mission to protect life and property and to enhance the economy.

Brief Background

Impelled by experiences with major floods in 1993 in the Midwest, the Des Moines river basin was selected as a test site for AHPS product development. The successful demonstration of AHPS on the Des Moines River was favorably received by local water resource and emergency management agencies.

The devastating floods in the upper Midwest and Plains states in 1997 provided an increased sense of urgency. Since then, the NWS has finalized plans to expand implementation of AHPS to our offices in Wisconsin, Minnesota, Michigan, Iowa, Missouri and North Dakota covering different river basins in coming years. The expansion also includes tributaries within the Ohio River basin in parts of Kentucky, Ohio, and western Pennsylvania.

While floods are impossible to prevent completely and there is no way to guarantee protection of property, the NWS and other federal, state, and local agencies have proved the loss of life can be greatly reduced with better forecasting.

How are AHPS Products Developed?

Using sophisticated computer models and large amounts of data from a wide variety of sources such as super computers, automated gauges, geostationary (GOES) satellites, Doppler radars, weather observation stations, and the computer and communications system, called the Advanced Weather Interactive Processing System (AWIPS), the NWS provides hydrologic forecasts for almost 4,000 locations across the United States. These forecasts are developed by our River Forecast centers and distributed by our field offices for a wide range of customers.

What are the Components of AHPS?

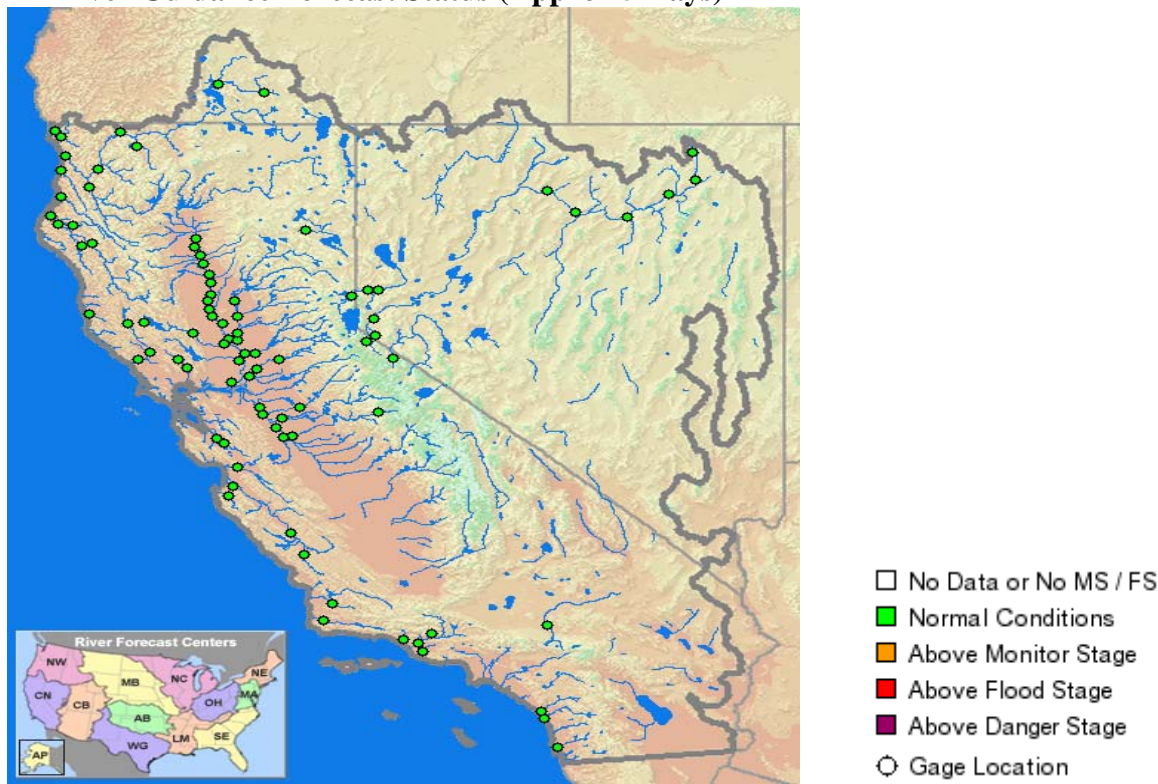
The current group of AHPS products covers forecast periods ranging from hours to months. It also includes valuable information about the chances of flood or drought. This information is presented through user-friendly graphical products. The products are identified by the logo. The information, such as the flood forecast level to which a river will rise and when it is likely to reach its peak or crest, is shown through hydrographs. Other information include:

- 1.) the chance or probability of a river exceeding minor, moderate, or major flooding,
- 2.) the chance of a river exceeding certain level, volume, and flow of water at specific points on the river during 90 day periods, and
- 3.) a map of areas surrounding the forecast point that provides information about major roads, railways, landmarks, etc. likely to be flooded, the levels of past floods, etc.

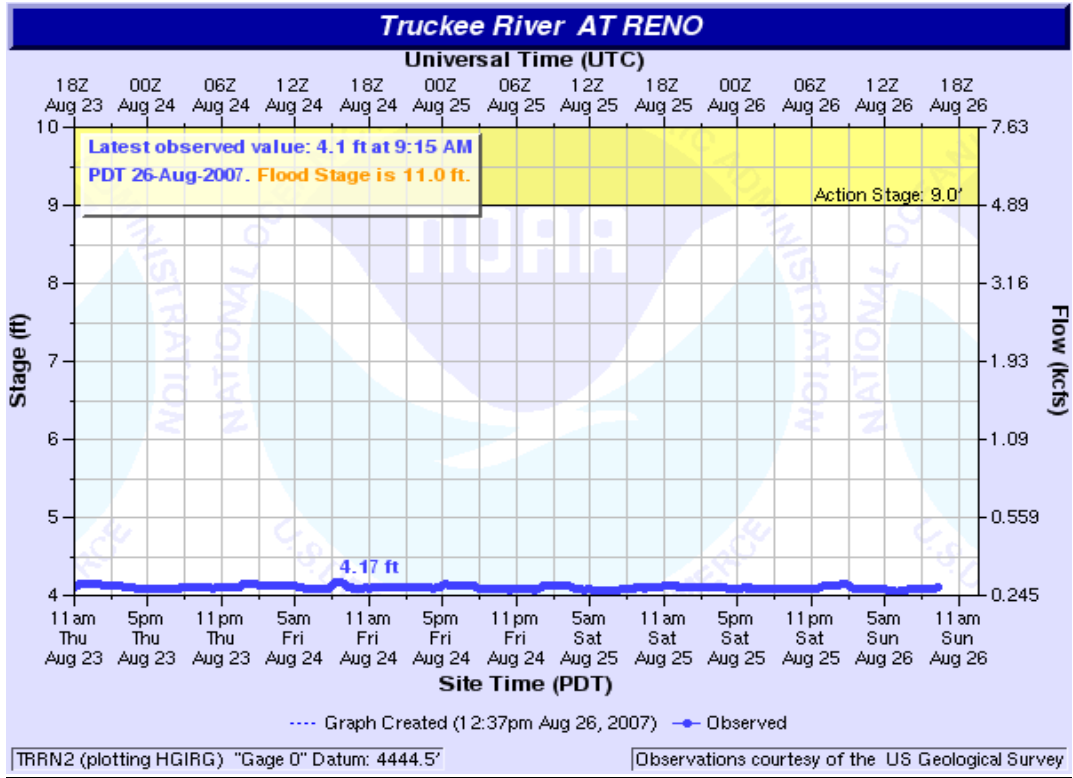
An additional feature of the AHPS Web site is a map of the river basin and various points along the river for which information is available.

California/Nevada River Forecast Center Mosaic

River Guidance Forecast Status (Approx 5 Days)



Forecast Point Hydrograph



Appendix F - Interactive Forecast Preparation System (IFPS) and the National Digital Forecast Database (NDFD)

What is IFPS?

IFPS has been implemented in the NWS which provides not only for preparation of familiar text and voiced products, but also creates in digital (i.e., numerical) form the data from which these products are prepared. These digital forecasts are put into the NDFD. In essence, the forecaster now enters the forecast variables in digital form instead of redundantly typing several products containing largely the same information. But the real power of a digital database is that it opens the door for providing much more forecast information and in more useful forms. The NDFD contains much more data than the NWS was previously able to provide, at time scales as small as hourly and space scales of a few kilometers.

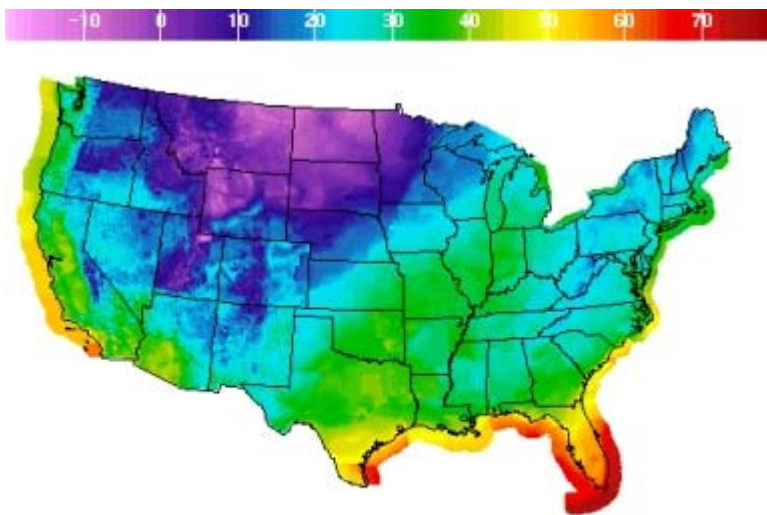
What is the NDFD?

NWS provides access to gridded forecasts of sensible weather elements (e.g., cloud cover, maximum temperature) through the National Digital Forecast Database (NDFD). NDFD contains a seamless mosaic of digital forecasts from NWS field offices working in collaboration with the National Centers for Environmental Prediction (NCEP). The database is made available to all customers and partners from the public, private and academic sectors. Those customers and partners may use this data to create a wide range of text, graphic, gridded and image products of their own. Over time, NWS will offer a wider array of gridded forecast elements and a larger set of graphical presentations.

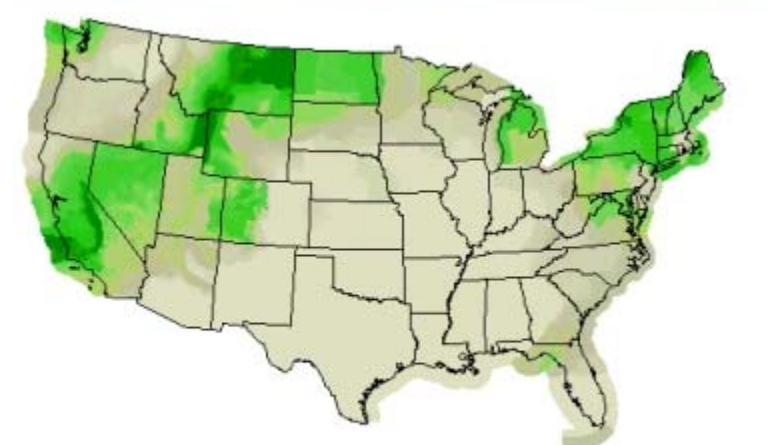
Currently, the NDFD digital database includes individual forecast grids for the following weather elements:

- Maximum temperature
- Minimum temperature
- Probability of precipitation (POP12)
- Weather
- Sky cover
- Wind direction and speed
- Significant wave height
- Temperature
- Dewpoint
- Precipitation amount
- Snow amount

While many of the forecast grids are still considered experimental, a limited set have been made official and available through the NDFD, with the addition of more official elements planned in the near future.



MinT Forecast Ending Wed Dec 31 2003 7AM EST
 (Wed Dec 31 2003 12Z)
National Digital Forecast Database
 Experimental graphic created 12/30/2003 12:35PM EST



PoP12 Forecast Ending Tue Dec 30 2003 7PM EST
 (Wed Dec 31 2003 00Z)
National Digital Forecast Database
 Experimental graphic created 12/30/2003 12:37PM EST

Graphical Forecast Editor

Forecast Grids

**LAS VEGAS VALLEY-
 INCLUDING LAS VEGAS...NORTH LAS
 VEGAS...HENDERSON...BOULDER CITY**
 NATIONAL WEATHER SERVICE LAS VEGAS NV
 310 PM PST WED JAN 7 2004

TONIGHT PARTLY CLOUDY. LOWS IN THE
 UPPER 30S. LIGHT WIND.

THURSDAY MOSTLY SUNNY. HIGHS IN THE
 UPPER 40S. LIGHT WIND.

FRIDAY NIGHT MOSTLY CLEAR IN THE
 EVENING THEN BECOMING PARTLY CLOUDY
 AFTER MIDNIGHT. LOWS IN THE LOWER 40S.
 LIGHT WIND IN THE EVENING BECOMING WEST
 AROUND 10 MPH AFTER MIDNIGHT.

FRIDAY PARTLY CL
 THEN BECOMING MO
 AFTERNOON HIGHS
 WIND.

FRIDAY NIGHT PA
 THE LOWER 40S. LI
 BECOMING NORTHEAST AROUND 10 MPH AFTER
 MIDNIGHT.

Text Products

Appendix G - Cooperative Program Management

What equipment does a Cooperative Station use?

A visit to a NWS Cooperative Weather Station...

A cooperative weather observer (CWO) uses different equipment dependant on the type of station he or she is at. Typically, and at a minimum, CWO's have a rain gauge and a thermometer. There are 3 different types of CWO's: The "a" station is setup specifically to support climatological operations, and are the backbone of the Nations Climatic database. The "b" station is specifically designed to support hydrologic operations and are primarily used to support hydrologic operations. The "c" stations were setup to act as meteorological and severe storm spotters, and to supplement the "a" and "b" network. All play important roles in the daily operations of the National Weather Service.

Temperature and Temperature Shelters

Some cooperative observers use the Cotton Region Shelter (CRS) to record maximum and minimum temperature data. A CRS is typically a wooden structure with louvered sides, a slotted bottom and solid top. It is usually made of pine, painted white, and sits atop a wooden or metal base, 5 to 6 feet above the ground. Some CRS's (as the one on the right) has an electric fan in it to allow for better circulation during light wind conditions. Thermometers in CRS's often register too warm during light wind conditions (when the wind is under 5 mph). This is especially true during the day in bright sunlight although it can occur at night as well.



The thermometers used in a CRS are Liquid In Glass (LIG) with two basic types: Alcohol and Mercury. Alcohol thermometers are employed in the colder climates where winter temperatures drop below -40 degrees F - the freezing point of mercury. Minimum thermometers have a small bar embedded in the liquid which is pulled down the tube as the temperature falls. As the temperature warms again and the liquid moves back up the tube the bar remains at the "minimum" which allows the observer to read the lowest temperature. Maximum thermometers have a small break near the base of the well of liquid at the bottom of the thermometer. So as the temperature falls from the high, this break in the liquid keeps the liquid in place at its high point. The CWO then tilts the thermometers in a rack which rejoins the mercury or sends the bar back to the top of the liquid, resetting them for another days recording.

Electronic Temperature Equipment

Another and newer type of thermometer is the *Maximum Minimum Temperature System* or MMTS. An MMTS is an electronic thermometer not too different from the type you buy at the local electronics store. The MMTS is a thermistor housed in a shelter which looks similar to a bee hive. This design is similar in functionality to the CRS. Currently the MMTS requires a cable to connect the sensor with the display. Future plans call for wireless devices which would eliminate many of the problems currently associated with the cabled systems.



Precipitation Gauges

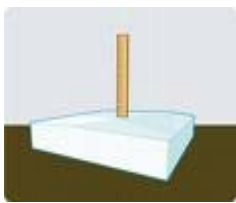
There are several types of gages used but the two basic types are recording and non recording. The most common is the non recording gauge called a Standard Rain Gauge (SRG). Typically the SRG is a metal cylinder with a funnel on top and a plastic measuring tube in the middle. The measuring tube can handle up to 2.30 inches of rain before overflowing into the larger outer cylinder. During the winter, the CWO removes the funnel and inner tube and allows the snow to collect in the outer tube. The CWO then melts the snow and measures it, getting an accurate water equivalent to report.



Another type of precipitation gauge is the recording gauge. The most common type is the Fisher/Porter (F&P) gauge, developed by the Belfort instrument Company. The Fisher/Porter gauge (as the one pictured on the right) is designed to work for many years in remote and harsh environments. The F&P gauge weighs the precipitation it collects in a large metal bucket. This bucket sits atop a mechanism which punches holes in a paper tape, recording the amount of precipitation. In the winter months the bucket is filled with a mixture of oil and antifreeze which allows snow and ice to melt and be accurately measured. The CWO removes the tape once a month where it is sent to the local NWS Office. After reviewing the data the tape is sent to the National Climatic Data Center for archiving.



Snowfall and Snow Depth



CWO's also report the amount of snow and the depth of newly fallen and existing snow. This can be a difficult task, especially during heavy snow events. CWO's must use experience and the guidelines provided by the NWS. In some instances snowfall measurement is an estimation at best. To help the CWO, a snowboard may be used. The snowboard is simply a piece of plywood, typically 3 feet square with a ruler attached in the middle. The snowboard sits in an open space and as the name implies, is covered with snow. The observer then measures the amount of newly fallen snow every 6 hours, brushing off the "old" snow when finished.

Communications and observations

There are several methods available to the CWO to send data to the NWS. Some observers call information to the office using a toll free number. More and more, however, observers are using a PC based application or a programmable telephone. The information is coded in a special format which NWS computers can read and decipher, allowing us to view the data both graphically and in a tabular format. The CWO plays an extremely important part in the role of the National Weather Service. The data they collect are used in a wide variety of applications: Agriculture, Industry, city planning, litigation, and studies about long term climatological events such as El Nino and La Nina. CWO's are truly unsung heroes whose dedication needs to be celebrated and their efforts are greatly appreciated.

Appendix H - Storm Ready Program



About StormReady

Ninety percent of all presidentially declared disasters are weather related, leading to around 500 deaths per year and nearly \$14 billion in damage. StormReady, a program started in 1999 in Tulsa, OK, helps arm America's communities with the communication and safety skills needed to save lives and property— before and during the event. StormReady helps community leaders and emergency managers strengthen local safety programs. For **StormReady** information, from national to our local area, visit the location of interest below.

National Storm Ready web page: www.stormready.noaa.gov/

About StormReady

StormReady prepares communities with an action plan that responds to the threat of all types of severe weather -- from tornadoes to tsunamis.

The entire community - from the mayor, emergency managers, to business leaders and civic groups – can take the lead on becoming StormReady. Local National Weather Service forecast offices work with communities to complete an application and review process.

To be officially StormReady, a community must:

- Establish a 24-hour warning point and emergency operations center;
- Have more than one way to receive severe weather forecasts and warnings and to alert the public;
- Create a system that monitors local weather conditions; and
- Promote the importance of public readiness through community seminars;
- Develop a formal hazardous weather plan, which includes training severe weather spotters and holding emergency exercises.

Storm Ready Recognition Process

An advisory board, comprised of a National Weather Service Meteorologist In Charge (MIC) and Warning Coordination Meteorologist (WCM), and state and local emergency managers, will review applications from municipalities and visit the locations to verify the steps made in the process to become StormReady. StormReady communities must stay freshly prepared, because the designation is only valid for two years.

Washoe County Storm Ready Information



Washoe County, NV, *October 2006*, from left, NWS Director General (retired) D.L. Johnson, NWS Reno MIC Jane Hollingsworth; County Commissioner Bob Larkin, County Emergency Manager Aaron Kenneston and County Manager Katy Singlaub.



**Weather Forecast Office
Reno, Nevada
Watch, Warning, and Advisory
Quick Reference Guide**

Thunderstorms and Tornadoes	
Severe Thunderstorm Warning	Thunderstorm producing hail equal to or greater than 3/4" in diameter and/or wind gusts of at least 50 knots (58 MPH) occurring or imminent.
Tornado Warning	Tornado occurring or imminent.
Severe Thunderstorm/Tornado Watch	The Storm Prediction Center (SPC) in Norman, Oklahoma issues tornado and severe thunderstorm watches for the country. A watch means conditions are favorable for severe weather to occur.

Winds and Visibilities		
HIGH WIND WARNING (Issued up to 24 hrs in advance of event)	Below 7000'	Sustained winds of 40+ MPH (35+ KTS) for one or more hours and/or gusts to 58+ MPH (50+ KTS).
	Above 7000' (excluding ridge tops)	Sustained winds of 50+ MPH (43+ KTS) for one or more hours and/or gusts to 75+ MPH (65+ KTS).
DUST STORM WARNING (Issued up to 24 hrs in advance of event)	Same criteria as High Wind Warning, but issued during prolonged dry periods when strong winds can produce widespread visibilities in blowing dust at or below 1/4 mile for any extended period of time.	
WIND ADVISORY (Issued up to 24 hrs in advance of event)	Below 7000'	Sustained winds of 30-39 MPH (26-34 KTS) for one or more hours and/or gusts from 45-57 MPH (39-50 KTS).
	Above 7000'	Not Issued
BLOWING DUST ADVISORY (Issued up to 24 hrs in advance of event)	Same criteria as Wind Advisory, but issued when widespread visibilities are at or below 1 mile but above 1/4 mile due to blowing dust for any extended period of time.	
LAKE WIND ADVISORY (Issued up to 24 hrs in advance of an event)	Sustained Lake winds of 20 MPH (17 KTS) or greater or gusts of 30 mph (26 KTS) lasting for at least three hours. (Only issued if winds not reaching Wind Advisory criteria or greater in the surrounding area.)	
HIGH WIND WATCH (Issued 12-48 hrs in advance of event)	Issued to give advance notice of the possibility of high winds. Same criteria as High Wind Warning.	

Flooding	
Flash Flood/Flash Flood Warning	Flash-flooding/Flooding is imminent or occurring, or a dam break is imminent or occurring.
Flash Flood/Flood Watch (Normally issued 6-48 hours in advance of an event)	Issued to give advance notice of the possibility of flash flooding, or there is concern about the safety of a dam, but a break is not imminent.
Urban and Small Stream Flood Advisory	Issued when flooding is a threat to urban areas or small streams, but the effects are not expected to be life threatening.

Temperatures	
Freeze Warning (Issued up to 36 hrs in advance of an event)	Issued when widespread temperatures below 32 degrees occur for the first time in the fall season (or during the late spring or summer after the start of the growing season) over urban and agricultural areas. <i>(Typically colder non-agricultural areas such as low lying drainage basins, mountains, and high elevation valleys do not require the issuance of a freeze warning).</i>
Heat Advisory (Issued 0-48 hrs in advance of an event)	When the following is expected across a significant portion of the affected Zone typically below 5000': <ul style="list-style-type: none"> Max Temperature expected to reach or exceed 105 degrees (no Min Temperature requirement) for at least 2 consecutive days. Max Temperature expected to reach or exceed 100 degrees <u>and</u> Min Temperature at or above 70 degrees for at least 2 consecutive days.

Fog	
Dense Fog Advisory (Issued up to 36 hrs in advance of an event)	Visibilities ¼ mile or less expected or occurring over a significant or critical portion of the advisory area.
Freezing Fog Advisory (Issued up to 36 hrs in advance of an event)	Issued when widespread visibilities are at or below ¼ mile for an extended period of time. Rime ice is also expected to accumulate in the areas where the advisory has been issued.

Wildfires	
Red Flag Warning (Issued up to 24 hrs in advance of an event)	Issued when critically dry fuels are accompanied by the following expected conditions: <ul style="list-style-type: none"> Winds frequently gusting to 30+ mph and relative humidities of 15 percent or lower, both lasting for at least 3 hours, OR Dry lightning.
Fire Weather Watch (Issued 24-72 hrs in advance of an event)	Issued to give advance notice to the fire weather community of the possibility of a Red Flag Warning.

Smoke	
Dense Smoke Advisory (Issued up to 24 hrs in advance of an event)	Issued when heavy smoke is significantly reducing visibilities and also when the smoke is posing health concerns making it difficult to see and breathe.

Winter Weather			
HEAVY SNOW WARNING (Issued up to 24 hrs in advance of event)	FIRST STORM of the season	Any elevation	4+"/>12 hours or 6+"/>24 hours
		SUBSEQUENT STORMS of the season	Below 5000'
	5000' to 7000'		8+"/>12 hours or 12+"/>24 hours
	Above 7000'		12+"/>12 hours or 18+"/>24 hours
	SNOW ADVISORY (Issued up to 24 hrs in advance of event)	FIRST STORM of the season	Below 5000'
Above 5000'			2"-4"/>12 hours or 4"-6"/>24 hours
SUBSEQUENT STORMS of the season		Below 5000'	2"-4"/>12 hours or 4"-6"/>24 hours
		5000' to 7000'	4"-6"/>12 hours or 6"-7"/>24 hours
		Above 7000'	7"-11"/>12 hours or 8"-17"/>24 hours
BLIZZARD WARNING (Note: Currently <i>not</i> issued by WFO Reno for the Sierra Nevada Mountain forecast zones)		Sustained winds or frequent gusts of 35 mph or more with the visibility frequently below 1/4 mile in snow or blowing snow for at least 3 hours.	
WIND CHILL WARNING (Issued up to 24 hrs in advance of event)		Below 7000'	Wind chill values are expected to be below -20 degrees F (must occur with at least 10 mph of wind) for at least an hour.
SNOW AND BLOWING SNOW ADVISORY (Issued up to 24 hrs in advance of event)		Snow Advisory criteria coupled with Wind Advisory criteria or greater. (See section on Winds for Wind Advisory criteria.)	
WINTER STORM WARNING (Issued up to 36 hrs in advance of event)		Heavy Snow Warning criteria coupled with Wind Advisory criteria or greater. (See section on Winds for Wind Advisory criteria.)	
WINTER STORM WATCH (Issued 12-48 hrs in advance of event)		Issued to give advance notice of the possibility of hazardous winter weather. Criteria match those of warnings.	

Heat Index

(Apparent Temperature)

Relative Humidity (%)

Temperature (F)	Relative Humidity (%)																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
122	107	112	119	126	135	143															
119	106	109	115	121	128	136															
116	104	107	112	117	123	130	138	146													
113	102	105	109	112	116	123	129	137	145												
110	99	102	105	108	112	117	123	130	137	143	152										
107	96	99	101	104	107	112	117	122	128	134	141										
104	94	96	99	101	104	107	111	115	120	126	132	138	144								
101	92	94	97	98	100	102	105	109	113	118	123	130	135								
98	89	91	93	94	95	98	100	103	106	109	113	118	123	130	137						
95	87	88	90	91	92	93	95	98	99	103	106	110	114	119	124	130	136				
92	85	85	87	88	88	89	90	92	94	97	99	102	105	108	113	117	122	127	131		
89	82	83	84	84	85	86	87	88	89	91	93	95	97	100	103	106	110	114	118	122	126
86	79	80	82	82	83	83	84	85	85	87	88	90	92	94	96	97	100	103	105	108	112
83	76	77	78	79	80	81	81	82	82	83	84	85	86	88	90	91	94	95	96	99	103
80	73	74	75	76	77	77	78	79	79	80	81	81	82	83	85	86	86	87	88	89	91

Heat Index/Heat Disorders: possible heat disorders for people in higher risk groups

HEAT INDEX 90 to 104 -sunstroke, heat cramps, and heat exhaustion possible

HEAT INDEX 105 to 129 -sunstroke, heat cramps, and heat exhaustion likely; heat stroke possible

HEAT INDEX > 129 -heat stroke or sunstroke likely with continued exposure

Important: Since HI values were devised for shady, light wind conditions, exposure to full sunshine can increase HI values by up to 15°F. Also, strong winds, particularly with very hot, dry air, can be extremely hazardous.



Wind Chill Chart



Wind (mph)	Temperature (°F)																	
	Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40
5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98

Frostbite Times 30 minutes 10 minutes 5 minutes

Wind Chill (°F) = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})
 Where, T= Air Temperature (°F) V= Wind Speed (mph) Effective 11/01/01