

DIRECTIONS FOR USE

NOAA ALL HAZARD  
ALERT  
WEATHER MONITOR

MODEL WR3000



OREGON  
SCIENTIFIC

Value in Electronics

## Introduction

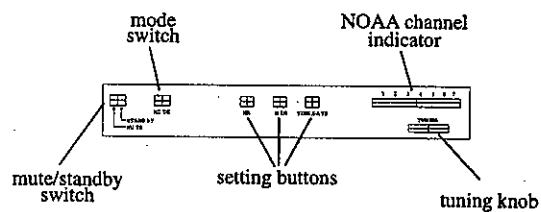
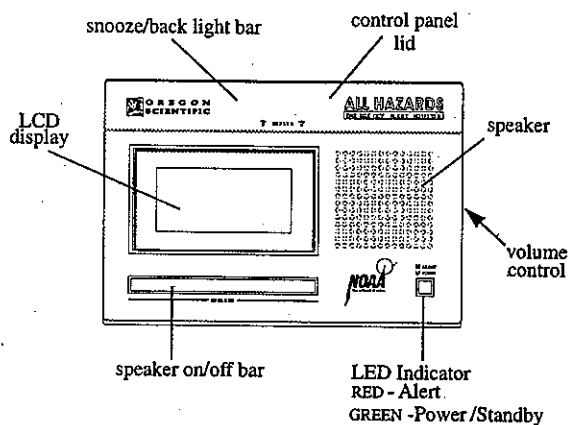
Thank you for purchasing the Oregon Scientific All Hazard Weather Monitor. Your Oregon Scientific Model WR3000 operates on all seven NOAA weather broadcast bands. It retrieves 24-hour messages from your local weather broadcast channel, receiving signals at 162.400 MHz to 162.550 MHz. The receiver's circuitry automatically locks in the emergency broadcast when the NOAA All-Hazard Alert tone is received -- and emits an audible and visual warning signal.

Your All Hazard Weather Monitor is equipped with a full-function LCD alarm clock. This versatile model may also be hung on a wall using the keyhole slots on the back of the unit.

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## Features and Callouts



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## Getting Started

### Power

**NOTE:** We recommend that you use an AC adapter as your primary power source for this unit and keep the batteries as a back up power source in the event of a power failure. Your WR3000 requires a 4.5 Volt / 250mA center pin positive AC adapter. Should you have any difficulty locating an adapter in your area please call Oregon Scientific at 800-869-7779.

### Plugging in an Adapter (not included)

- Plug the pin of the adapter into the DC port in the back of the unit and plug the AC adapter power cord into a wall outlet. While the adapter is in use, the green-glow backlight illuminates the display panel at all times.

### Installing the Batteries

- Model WR3000 is powered by three (3) "C" batteries (not included)
- Alkaline batteries are recommended

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- During A/C adapter use, the batteries serve as a continuous backup power source (backup batteries should last 1 year)
- When the batteries are low, the Low Battery indicator will signal to change the batteries (for more information, see "Low Battery Indicator" section)

**NOTE:** The power switch is built into the rotary volume control located on the right side of the monitor (see "Features and Callouts").

1. Always turn the power to the "Off" position when removing old batteries and installing new batteries.
2. Slide the battery cover in the direction of the arrow and remove the cover.
3. Insert the batteries into the battery compartment, making certain the polarities (+ and -) match the positions noted.
4. Carefully replace the cover


### Low Battery Indicator

- This unit is equipped with a low battery detection circuit which indicates when it is time to change the batteries
- With the unit's power switch in the "Off" posi-

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tion, a battery icon (see "Features and Callouts") will appear at the top of the display when your batteries need to be replaced

- With the monitor operating in the "On" position, the battery icon will appear
- Replace the batteries immediately to ensure normal operation of the unit

 **NOTE:** If you change the batteries in 30 seconds or less, the time keeping functions are retained in memory. If the unit is connected to A/C power adapter while you are changing the batteries, you do not need to hurry. The A/C adapter will sustain the time keeping functions.

All setting controls are found under the control panel lid (see "Features and Callouts")

### Setting the Clock/Date/Alarm


 **IMPORTANT:** Once any mode setting processes are started and the word icons (Time, Date, etc.) begin to flash, you have only 5 seconds to begin the process before the unit returns to normal operation. If this happens, simply press and hold **MODE** again and begin your set-

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tings within the allotted 5 seconds.

### Setting the Clock

- Open the top lid of the control panel
- Press and hold **MODE** until the word "TIME" begins to flash at the left side of the display
- Then press **hour/▲** to set the hour and **MIN/▼** to set the minute until the correct time is displayed

 **IMPORTANT:** If the PM indicator is shown, the clock is set for afternoon time. If no indicator is shown, the clock is set for AM or morning time.


- After the time is set, press **MODE** again to start the clock and select other functions
- Close the control panel lid
- If no other setting are made, the clock will begin normal operation in 5 seconds

### Setting the Date

- Open the top lid of the control panel

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- Press and hold **MODE** until the word "DATE" begins to flash at the left side of the display
- Then press **hour/▲** to set the month and **MIN/▼** to set the date until the correct date is displayed
- After the date is set, press **MODE** again to start the clock or select other functions
- Close the control panel lid
- If no other setting takes place, the clock will begin normal operation in 5 seconds


 **NOTE:** To switch the display from time to date, press **TIME/DATE** to toggle back and forth between the two display functions.


### Setting the Alarm

- Open the top lid of the control panel
- Press and hold **MODE** until the word "ALARM" begins to flash at the left side of the display
- Then press **hour/▲** to set the hour and **MIN/▼** to set the minutes until the desired time is shown
- Press **MODE** again until you see both

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- "ALARM" and "ON" flashing on the display
- When "ALARM" and "ON" are flashing, press **hour/▲** to enable the alarm function
- This sets a daily alarm which can be stopped each day but repeats every 24 hours

 **NOTE:** In "ALARM" mode, you can tell that the alarm is set if the "ON" icon is steady. If the "ON" icon is flashing, the alarm function is disabled.

 **IMPORTANT:** Once any mode setting processes are started and the word icons (Time, Date etc.) begin to flash, you have only 5 seconds to begin the process before the unit returns to normal operation. If this happens, simply press and hold **MODE** again and begin your settings within the allotted 5 seconds.

### Stopping the Daily Alarm

- While the alarm is sounding or during a snooze period, lift the control panel lid and press **MIN/▼** to stop the alarm

 **NOTE:** By completing this step, the alarm signal will stop, but the alarm will sound again at the set time in 24 hours.


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## Operating the Snooze Feature

- To operate the snooze when the alarm signal sounds, gently press the closed control panel lid – the entire lid acts as a large snooze bar
- Following a snooze duration of nine minutes, the alarm will sound again
- To stop the alarm, lift the control panel lid and press **MIN/▼**
- If neither the snooze bar/control panel lid or **MIN/▼** is pressed, the alarm will sound for 9 minutes and then stop

## Disabling the Alarm

- Lift the control panel lid, press and hold **MODE** until the word "ALARM" begins to flash at the left side of the display
- Press **MODE** again until you see both the "ALARM" and "ON" icons on the display
- Press **MIN/▼** to disable the alarm function
- The "ON" icon should now be flashing

 **IMPORTANT:** This will completely disable the alarm – the alarm will NOT sound again until the alarm function is enabled.


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## Backlight

- When using battery power, to illuminate the display, press and release the snooze bar/control panel lid. Once the bar is pressed, a radiant green backlight will illuminate the display panel for five seconds.
- When using an AC adapter, the backlight will be continuously lit and cannot be disabled

## Receiving the NOAA All Hazards Alert Signal


1. Rotate the power switch/volume control to the "On" position.

 **NOTE:** If using battery power only, should the monitor is not be in use, we recommend that you keep this switch in the "Off" position to conserve battery power.


2. Press the **SPEAKER ON/OFF** bar to turn on the speaker. You will hear background noise from the receiver, which is normal, until you tune in the correct frequency for your area.
3. Rotate the volume control to find the desired volume level.

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4. Open the control panel lid.
5. At the right side of the control panel, locate the rotary tuner marked with channels 1-7
6. Turn the rotary control to find the strongest NOAA signal
7. It is possible that you may be able to receive more than one signal -- choose the strongest one (see list of frequencies in "Features and Specifications")

 **NOTE:** In a weak signal area, try moving the unit to another location to improve reception of the NOAA signal. Extend the telescopic antenna, located at the back of the unit, to its full length. If the strongest signal you can receive is still weak rotate the antenna to find a better reception angle and/or move the unit to another location in the building.

8. After you have found a good signal, close the control panel lid. There is a frequency control circuit built into this unit. Once you close the control panel lid, the frequency you have selected will be locked in to prevent signal drift and degradation.


 **WARNING:** If you are traveling with your Oregon Scientific All Hazard Weather Monitor and you travel

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more than 35 miles, you may need to reset the NOAA frequency to get the best reception and the most accurate weather information for your area. Follow steps 1-8 to find the best frequency for your new location.

## Weather Alert Monitoring Options

NOAA transmits a warning signal if there are any emergency broadcasts. Your Oregon Scientific All Hazard Weather Monitor can be put into standby monitoring status to receive these alerts as follows:

 **WARNING:** The tone-coded alert signal is volume adjustable by the volume control knob. If you have the volume control turned to the minimum setting, you will not hear an emergency weather alert

- Set the correct frequency as stated in the previous pages of these Instructions.
- Leave the power on.

**If you want the speaker to turn on immediately when an emergency broadcast signal is received:**


1. Lift the control panel lid
2. Slide **STANDBY/MUTE** to the "Standby" position

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3. Close the control panel lid

When the alert signal is received:

- The tone-coded alert signal will sound
- The red LED POWER/ALERT light will flash
- The display panel will flash the word ALERT
- The speaker will automatically begin to broadcast the emergency alert message for one hour

 **NOTE:** To listen to the NOAA All Hazard broadcast message at any time simply press the **SPEAKER** bar. To turn off the speaker (broadcast) and return to **STANDBY** mode, simply press the **SPEAKER** bar again.


**If you do not want to be disturbed by the broadcast message when the emergency tone-coded alert signal is received:**


1. Lift the control panel lid
2. Slide **STANDBY/MUTE** to the "Mute" position
3. Close the control panel lid

When the alert signal is received

- The red LED POWER/ALERT light will flash
- The display panel will flash the word "ALERT"

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 **NOTE:** At this time the speaker will not activate, and no broadcast message will be heard. To listen to the NOAA All Hazard broadcast message simply press the **SPEAKER** bar. To turn off the speaker (broadcast) and return to **MUTE** mode, simply press the speaker bar again.

 **NOTE:** If your WR3000 is set to either **STANDBY** or **MUTE**, and you want to hear a broadcast, simply press the **SPEAKER** bar. The **SPEAKER** bar setting overrides all other settings on your WR3000 for quick access to weather broadcasts. To return to the previous setting, simply press the **SPEAKER** bar again.

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## Warranty

This Oregon Scientific product is warranted to be free of manufacturing defects for 1 year from the date of purchase.

This limited warranty does not cover products subjected to abuse, misuse, accidental damage or damage during shipment.

If you have any questions please contact your place of purchase, Oregon Scientific directly at 800-853-8883, or by email at [helpme@oscientific.com](mailto:helpme@oscientific.com)

For more information on our products see us at  
[WWW.OREGONSCIENTIFIC.COM](http://WWW.OREGONSCIENTIFIC.COM)

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## Specifications

1. There are seven channels of NOAA weather broadcasts:

1:	162.400MHz
2:	162.425MHz
3:	162.450MHz
4:	162.475MHz
5:	162.500MHz
6:	162.525MHz
7:	162.550MHz

The coverage range of each NOAA broadcast station is approximately a 40-mile radius.

NOAA Weather Radio is a service of the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce.

As the "Voice of the National Weather Service," it provides continuous broadcasts of the latest weather information from local National Weather Service offices. Weather messages are repeated every 4 to 6 minutes and are routinely updated every 1 to 6 hours or more frequently in rapidly changing local weather or if a nearby hazardous environmental condition exists. Most stations operate 24 hours daily.

The regular broadcasts are specifically tailored to weather information needs of the people within the service area of the transmitter. For example, in addition to general weather information, stations in coastal areas provide information of interest to mariners. Other specialized information, such as hydrological forecasts and climatological data may be broadcast.

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During severe weather, National Weather Service forecasters can interrupt the routine weather broadcasts and insert special warning messages concerning imminent threats to life and property. The forecaster can also add special signals to warnings that trigger "alerting" features of specially equipped receivers. In the simplest case, this signal activates audible or visual alarms, indicating that an emergency condition exists within the broadcast areas of the station being monitored, and alerts the listener to turn up the volume and stay tuned for more information. More sophisticated receivers are automatically turned on and set to an audible volume when an alert is received.

In the most sophisticated alerting system, NOAA Weather Radio Specific Area Message Encoding (SAME), digital coding is employed to activate only those special receivers programmed for specific emergency conditions in a specific area, typically a county. SAME can activate specially equipped radio and cable television receivers and provide a short text message that identifies the location and type of emergency. SAME will be the primary activator for the new Emergency Alert System planned by the Federal Communications Commission.

Under a January 1975 White House policy statement, NOAA Weather Radio was designated the sole Government-operated radio system to provide direct warnings into private homes for both natural disasters and nuclear attack. This concept is being expanded to include warnings for all hazardous conditions that pose a threat to life and safety, both at a local and national level.

NOAA Weather Radio currently broadcasts from over 425 FM transmitters in fifty states, Puerto Rico, the U.S. Virgin Islands, Guam and Saipan on seven frequencies in the VHF band, ranging from 162.400 to 162.550 megahertz (MHz). These frequencies are outside the normal AM or FM broadcast bands.

Special radios that receive only NOAA Weather Radio, both with and

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without special alerting features, are available from several manufacturers. In addition, other manufacturers are including NOAA Weather Radio as a special feature on an increasing variety of receivers. NOAA Weather Radio capability is currently available on some automobile, aircraft, marine, citizens band, and standard AM/FM radios as well as communications receivers, transceivers, scanners, and cable TV.

By nature and by design, NOAA Weather Radio coverage is limited to an area within 40 miles of the transmitter. The quality of what is heard is dictated by the distance from the transmitter, local terrain, and the quality and location of the receiver. In general, those using a high quality receiver on flat terrain or at sea can expect reliable reception far beyond 40 miles. Those with standard receivers, surrounded by large buildings in cities and those in mountain valleys may experience little or no reception at considerably less than 40 miles. If possible, a receiver should be tested in the location where it will be used prior to purchase.

NOAA Weather Radio is directly available to approximately 70 to 80 percent of the U.S. population. The National Weather Service is currently engaged in a program to increase coverage to 95 percent of the population.

If you have a question regarding technical aspects of NOAA Weather Radio (such as transmitter locations and reception and transmitter characteristics of a station) or are interested in becoming a partner with the National Weather Service in identifying or providing local funding and facilities for the installation of a Weather Radio transmitter, please contact your nearest National Weather Service Office or the National Weather Service, Dissemination Systems Section (Attn: W/O SO153), 1325 East-West Highway, Silver Spring, MD 20910.

If you have a question about the weather information broadcast over NOAA Weather Radio, please contact the local National Weather Service

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office responsible for programming the station, or the National Weather Service, Office of Meteorology, Customer Service (Attention: W/OM11), 1325 East-West Highway, Silver Spring, MD 20910.

<b>Alabama</b>	
ANNISTON	162.475
AUBURN	162.525
BIRMINGHAM	162.550
CULLMAN	162.450
DEMOPOLIS/LINDEN	162.475
DOZIER	162.550
FLORENCE	162.475
FORT PAYNE	162.500
HUNTSVILLE	162.400
JACKSON	162.500
LOUISVILLE	162.475
MOBILE	162.550
MONTGOMERY	162.400
TUSCALOOSA	162.400
WINFIELD	162.525
<b>Alaska</b>	
ANCHORAGE	162.550
CORDOVA	162.550
CRAIG	162.400
FAIRBANKS	162.550
HAINES	162.400
HOMER	162.400
JUNEAU	162.550
KETCHIKAN	162.550
KODI	162.550
NOME	162.550
SEWARD	162.550

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SITKA	162.550
VALDEZ	162.550
WRANGELL	162.400
YAKUTAT	162.400

<b>Arkansas</b>	
FAYETTEVILLE	162.475
FORT SMITH	162.550
GURDON	162.475
JONESBORO	162.550
LITTLE ROCK	162.550
MOUNTAIN VIEW	162.400
RUSSELLVILLE	162.525
STAR CITY	162.400
TEXARKANA	162.550

<b>Arizona</b>	
FLAGSTAFF	162.400
GRAND CANYON (Hopi Point)	162.475
PHOENIX	162.550
PRESCOTT	162.525
SHOW LOW (Porter Mt.)	162.400
TUCSON	162.400
WINDOW ROCK	162.550
YUMA	162.550

<b>California</b>	
BAKERSFIELD	162.550
COACHELLA	162.400
EUREKA	162.400
FRESNO	162.400
GRASS VALLEY (Wolf Mt.)	162.400
LOS ANGELES	162.550
MONTEREY	162.550

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PT. ARENA/UKIAH	162.550
REDDING	162.550
SACRAMENTO	162.400
SAN DIEGO	162.400
SAN FRANCISCO	162.400
SAN FRANCISCO MARINE	162.450
SAN LUIS OBISPO	162.550
SANTA ANNA MOUNTAINS	162.450
SANTA BARBARA	162.400
SANTA BARBARA MARINE	162.475

<b>Colorado</b>	
ALAMOSA	162.475
BETHUNE	162.525
COLORADO SPRINGS	162.475
DENVER	162.550
FORT COLLINS	162.450
GRAND JUNCTION	162.550
GREELEY	162.400
LA JUNTA	162.500
MEAD/LONGMONT	162.475
PUEBLO	162.400
STERLING	162.400

<b>Connecticut</b>	
HARTFORD	162.475
MERIDEN	162.400
NEW LONDON	162.550

<b>Delaware</b>	
LEWES	162.550
SALISBURY, MD	162.475

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<b>Florida</b>	
BELLE GLADE	162.400
DAYTONA BEACH	162.400
EASTPOINT	162.500
FORT MYERS	162.475
FORT PIERCE	162.425
GAINESVILLE	162.475
INVERNESS	162.400
JACKSONVILLE	162.550
KEY WEST	162.400
MELBOURNE	162.550
MIAMI	162.550
OCALA	162.525
ORLANDO	162.475
PANAMA CITY	162.550
PENSACOLA	162.400
SALEM	162.425
SEBRING	162.500
TALLAHASSEE	162.400
TAMPA	162.550
WEST PALM BEACH	162.475

<b>Georgia</b>	
ATHENS	162.400
ATLANTA	162.550
AUGUSTA	162.550
BAXLEY	162.525
CHATSWORTH	162.400
COLUMBUS	162.400
MACON	162.475
PELHAM	162.550
SAVANNAH	162.400
VALDOSTA	162.500
WAYCROSS	162.475

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WAYNESBORO	162.425
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<b>Hawaii</b>	
HAWAII (South Point)	162.550
HAWAII (Kulani Cone)	162.550
KAUAI (Kokee)	162.400
MAUI (Mt. Haleakala)	162.400
OAHU (Mt. Kaala)	162.550
OAHU (Hawaii Kai)	162.400

<b>Idaho</b>	
BOISE	162.550
LEWISTON	162.550
MCCALL	162.475
POCATELLO	162.550
TWIN FALLS	162.400

<b>Illinois</b>	
CHAMPAIGN	162.550
CHICAGO	162.550
MARION	162.425
PEORIA	162.475
ROCK ISLAND/MOLINE	162.550
ROCKFORD	162.475
SPRINGFIELD	162.400

<b>Indiana</b>	
BLOOMINGTON	162.400
EVANSVILLE	162.550
FORT WAYNE	162.550
INDIANAPOLIS	162.550
LAFAYETTE (Yeoman)	162.475
LOUISVILLE, KY	162.475
MARION	162.450

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SOUTH BEND	162.400
TERRE HAUTE	162.400

<b>Iowa</b>	
CEDAR RAPIDS	162.475
DES MOINES	162.550
DUBUQUE	162.400
SIOUX CITY	162.475
WATERLOO	162.550

<b>Kansas</b>	
CHANUTE	162.400
COLBY/GOODLAND	162.475
CONCORDIA	162.550
DODGE CITY	162.475
ELLSWORTH	162.400
LENORA	162.425
TOPEKA	162.475
TRIBUNE	162.550
WICHITA	162.550

<b>Kentucky</b>	
ASHLAND	162.550
BOWLING GREEN	162.400
COVINGTON	162.550
ELIZABETHTOWN	162.550
HAZARD	162.475
LEXINGTON	162.400
MADISON COUNTY (CSEPP)	162.525
MAYFIELD	162.475
JACKSON	162.425
PAINTSVILLE	162.525
PIKEVILLE	162.400
SOMERSET	162.550

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**Louisiana**  
 ALEXANDRIA 162.475  
 BATON ROUGE 162.400  
 BURAS 162.475  
 LAFAYETTE 162.550  
 LAKE CHARLES 162.400  
 MONROE 162.550  
 MORGAN CITY 162.475  
 NEW ORLEANS 162.550  
 SHREVEPORT 162.400

**Maine**  
 CARIBOU 162.525  
 DRESDEN 162.475  
 ELLSWORTH 162.400  
 FALMOUTH 162.550

**Mariana Islands**  
 GUAM (Nimitz Hill) 162.400  
 SAIPAN (Mt. Tapoetchau) 162.550

**Maryland**  
 BALTIMORE 162.400  
 HAGERSTOWN 162.475

**Massachusetts**  
 BOSTON 162.475  
 HYANNIS (Camp Edwards) 162.550  
 MT. GREYLOCK 162.525  
 WORCESTER 162.550

**Michigan**  
 ALPENA 162.550

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DETROIT 162.550  
 FLINT 162.475  
 GAYLORD 162.500  
 GRAND RAPIDS 162.550  
 HESPERIA 162.475  
 HOUGHTON 162.400  
 MARQUETTE 162.550  
 ONONDAGA 162.400  
 OSHTEMO 162.475  
 SAULT STE MARIE 162.550  
 TRAVERSE CITY 162.400

**Minnesota**  
 BEMIDJI 162.425  
 DETROIT LAKES 162.400  
 DULUTH 162.550  
 INTERNATIONAL FALLS 162.550  
 MANKATO 162.400  
 MINNEAPOLIS/ST. PAUL 162.550  
 ROCHESTER 162.475  
 ROOSEVELT 162.475  
 ST. CLOUD 162.475  
 THIEF RIVER FALLS 162.550  
 WILLMAR 162.475

**Mississippi**  
 ACKERMAN 162.475  
 BOONEVILLE 162.550  
 BUDE 162.550  
 COLUMBIA 162.400  
 GULFPORT 162.400  
 HATTIESBURG 162.475  
 INVERNESS 162.550  
 JACKSON 162.400

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MERIDIAN 162.550  
 OXFORD 162.400

**Missouri**  
 BOURBON 162.525  
 CAMDENTON 162.550  
 COLUMBIA 162.400  
 HANNIBAL 162.475  
 HERMITAGE 162.450  
 JOPLIN 162.425  
 KANSAS CITY 162.550  
 SIKESTON 162.400  
 SPRINGFIELD 162.400  
 ST. JOSEPH 162.400  
 ST. LOUIS 162.550  
 SUMMERSVILLE 162.475

**Montana**  
 BILLINGS 162.550  
 BUTTE 162.550  
 GLASGOW 162.400  
 GLENDIVE 162.475  
 GREAT FALLS 162.550  
 HAVRE (Squaw Butte) 162.400  
 HELENA 162.400  
 KALISPELL 162.550  
 MILES CITY 162.400  
 MISSOULA 162.400  
 PLENTYWOOD 162.475  
 SCOBAY 162.450

**Nebraska**  
 BASSETT 162.475

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GRAND ISLAND 162.400  
 HOLDREGE 162.475  
 LINCOLN 162.475  
 MERRIMAN 162.400  
 NORFOLK 162.550  
 NORTH PLATTE 162.550  
 OMAHA 162.400  
 SCOTTSBLUFF 162.550

**Nevada**  
 ELKO 162.550  
 ELY (Cave Mtn) 162.400  
 EUREKA 162.550  
 HAWTHORNE 162.475  
 LAS VEGAS (Boulder City) 162.550  
 NORTHWEST NEVADA 162.450  
 RENO 162.550  
 WINNEMUCCA 162.400

**New Hampshire**  
 CONCORD 162.400

**New Jersey**  
 ATLANTIC CITY 162.400

**New Mexico**  
 ALBUQUERQUE 162.400  
 CARLSBAD 162.475  
 CLOVIS 162.475  
 DES MOINES 162.550  
 FARMINGTON 162.475  
 HOBBS 162.400  
 LAS CRUCES 162.400  
 RUIDOSO 162.550

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SANTA FE 162.550

**New York**  
 ALBANY 162.550  
 BINGHAMTON 162.475  
 BUFFALO 162.550  
 ELMIRA 162.400  
 KINGSTON 162.475  
 NEW YORK CITY 162.550  
 RIVERHEAD 162.475  
 ROCHESTER 162.400  
 STAMFORD 162.400  
 SYRACUSE 162.550  
 WATERTOWN 162.475

**North Carolina**  
 ASHEVILLE 162.400  
 BADIN 162.425  
 CAPE HATTERAS 162.475  
 CHARLOTTE 162.475  
 FAYETTEVILLE 162.475  
 NEW BERN 162.400  
 RALEIGH/DURHAM 162.550  
 ROCKY MOUNT 162.475  
 WILMINGTON 162.550  
 WINSTON-SALEM 162.400

**North Dakota**  
 BISMARCK 162.475  
 DEVILS LAKE 162.425  
 DICKINSON 162.400  
 FARGO 162.475  
 GRAND FORKS 162.475  
 JAMESTOWN 162.550

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MINOT 162.400  
 PETERSBURG 162.400  
 WILLISTON 162.550

**Ohio**  
 AKRON 162.400  
 BRIDGEPORT 162.525  
 CALDWELL 162.475  
 CLEVELAND 162.550  
 COLUMBUS 162.550  
 DAYTON 162.475  
 LIMA 162.400  
 SANDUSKY 162.400  
 TOLEDO 162.550

**Oklahoma**  
 CLINTON 162.475  
 ENID 162.475  
 LAWTON 162.550  
 MCALESTER 162.475  
 OKLAHOMA CITY 162.400  
 PONCA CITY 162.450  
 TULSA 162.550

**Oregon**  
 ASTORIA 162.400  
 BEND/REDMOND 162.500  
 COOS BAY 162.400  
 EUGENE 162.400  
 KLAMATH FALLS 162.550  
 MEDFORD 162.400  
 MT. ASHLAND 162.475  
 NEWPORT 162.550  
 PENDLETON 162.400

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PORTLAND 162.550  
 ROSEBURG 162.550  
 SALEM 162.475  
 TILLAMOOK 162.475  
 UMATILLA 162.500

**Pennsylvania**  
 ALLENTOWN 162.400  
 CLEARFIELD 162.550  
 ERIE 162.400  
 HARRISBURG 162.550  
 JOHNSTOWN 162.400  
 PHILADELPHIA 162.475  
 PITTSBURGH 162.550  
 STATE COLLEGE 162.475  
 TOWANDA 162.550  
 WELLSBORO 162.475  
 WILKES-BARRE 162.550  
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