



**NOAA WEATHER RADIO**

# Why Do We Need Weather Radios?

- Many safety reasons:
  - 2005 Evansville, IN tornado
    - CJ Law
  - The 1<sup>st</sup> defense against tornados
  - Other alerts not associated with weather
    - Amber alerts, civil warnings, technological and natural hazards.

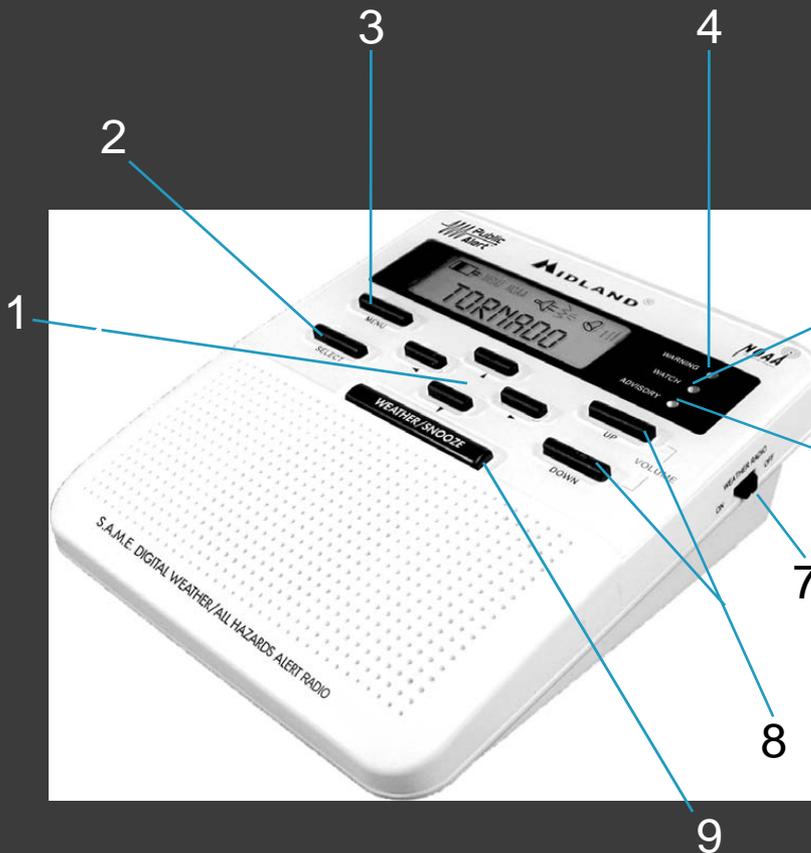
# What Features Do Weather Radios Have?

- Tone alarm
- S.A.M.E. Technology
- Selectable alerting of events
- Battery backup
  - In the event of a power outage the radio will still work with the batteries
- External antenna jack
- Can be hooked up to attention getting devices
  - Strobe lights, pagers, bed shakers, computers, text printers

# Where Should They Be Kept?

- ⦿ Near a window in a home or office.
  - Receive better reception
- ⦿ It is a good idea to keep one with sports equipment for emergency alerts.
- ⦿ Everyone should take one with them while outdoors (boating, camping) or traveling.

# Getting to Know Your NWR



1. Programming Buttons
2. Select
3. Menu
4. Warning Light-Red
5. Watch Light- Orange
6. Advisory Light- Yellow
7. Weather Radio On/Off Switch
8. Volume Up/Down
9. Weather/Snooze Button

# Getting to Know Your NWR: Display Icons



1. Low Battery Indicator
2. Menu Indicator
3. Weather Radio On Indicator
4. Warning Tone Alert
5. Voice Alert
6. Clock Alarm
7. Volume Level Bars
8. Alphanumeric

# Starting Your NWR

1. Place 3 AAA batteries into the compartment on the underside of the radio.
2. Plug the AC Adapter into a standard outlet. Plug the other end of the adapter into the DC jack on the back of the radio.
3. Pull out antenna and extend to full length above weather radio.
4. Click the switch on the right side of the radio to “ON”.
5. Press the “WEATHER/SNOOZE” button to turn on radio. Press the “UP” and “DOWN” buttons to select desired listening level.

# Programming

## Clock

1. Press "MENU".
2. Scroll up to select "TIME".
3. Press up until current hour is displayed.
4. Press "RIGHT" to save and advance to minute settings. Repeat for minutes.
5. Press "SELECT" to store the current time.
6. Press "MENU" to exit menu mode.

## Sleep Alarm

1. Press "MENU".
2. Scroll up to select "ALARM".
3. Press "UP" arrow to display "ON". Press "SELECT". Alarm hour will begin flashing.
4. Press "UP" arrow to set hour wanted. (AM/PM will change as you go through the hours)
5. Press "RIGHT" to save and move to minutes.
6. Press "SELECT" to save the alarm. ("ON" will be displayed with the alarm icon.
7. Press "MENU" to exit menu mode.

# Program Channel

1. Press “MENU”.
2. Press “UP” arrow until “CHANNEL” is displayed.
3. Press “Select”.
4. Press “UP” arrow until you hear the broadcast for your station.
5. Press “SELECT” to save station selected.
6. Press “MENU” to close menu mode. To turn broadcast on again, press “WEATHER/SNOOZE”.

# List of Transmitters Serving IN

TRANSMITTER	STATION	FREQUENCY			
ANGOLA	KXI-94	162.425	NORTH WEBSTER	WWG-45	162.450
BLOOMINGTON	WXM-78	162.450	PUTNAMVILLE	WXK-72	162.400
EDWARDSPORT	WWG-83	162.425	RICHMOND	KHB-52	162.500
EVANSVILLE	KIG-76	162.550	SEYMOUR	WWG-73	162.525
FORT WAYNE	WXJ-58	162.550	SOUTH BEND	WXJ-57	162.400
GEORGIA	WWG-72	162.500	COVINGTON (KY)	KIH-42	162.550
INDIANAPOLIS	KEC-74	162.550	NEW ALBANY (KY)	KIH-43	162.475
MARION	WXM-98	162.450	CHICAGO (IL)	KWO-39	162.550
MONTICELLO	WXK-74	162.475	PARIS (IL)	KXI-47	162.525
NEWPORT	KZZ-27	162.425			

# Weather Channels

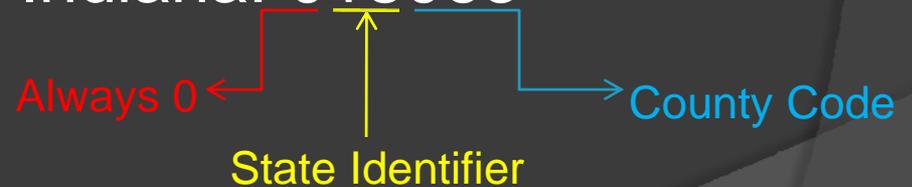
- Weather channels depend on what frequency your radio is receiving.

Preset Channels on the Weather Radio	Broadcast Frequency (MHz)
1	162.400
2	162.425
3	162.450
4	162.475
5	162.500
6	162.525
7	162.550

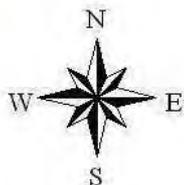
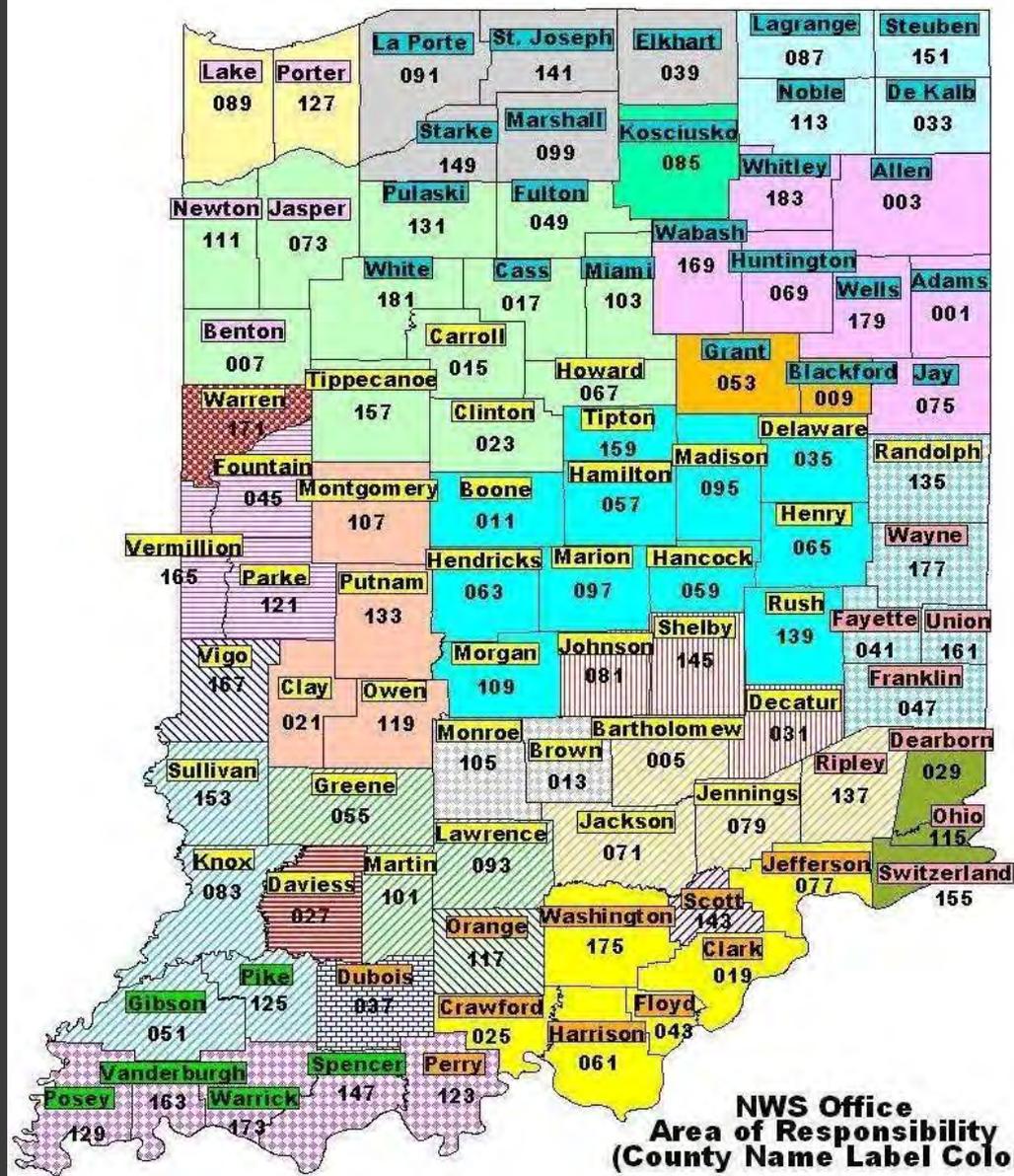
# S.A.M.E.

## Specific Area Message Encoding

- Allows for programming for only your county and those surrounding you for increased warning time.
- All S.A.M.E. codes start with 0, followed by their state's identifier, followed by the specific county number.
- Ex. Hendricks County, Indiana: 018063



IN's identifier: 18   IL's identifier: 17  
KY's identifier: 21   OH's identifier: 39  
MI's identifier: 26



- Indianapolis, IN
- Chicago, IL
- North Webster, IN
- Paducah, KY
- Louisville, KY
- Wilmington, OH

# How to Program Your NWR

Weather radios are programmed to receive alerts for all S.A.M.E. County Codes within range. If you want this setting, leave the radio set to “ANY”.

If you would like only one or a couple counties: Determine the counties you are interested in and retrieve those S.A.M.E. codes.

**For the maximum warning time,  
program the counties to your west.**

# One S.A.M.E. County Code

1. Select “MENU” button.
2. Press the “UP” arrow to scroll through menu options until “SAME SET” is shown, select.
3. Press the “UP” arrow to scroll through: “SINGLE”, “MULTIPLE”, or “ANY”.
4. Select “SINGLE”. Press the “SELECT” button, “S.A.M.E.01” will be displayed. Press “SELECT”.
5. Use the “UP” arrow to find the first digit of your S.A.M.E. code. Press the “RIGHT” arrow to save the digit and advance to the next digit.

# One S.A.M.E. County Code

6. Program the rest of the code the same way.
7. Press “SELECT” to store your S.A.M.E. County Code.
8. Press “MENU” to close the programming menu.

# Multiple S.A.M.E. Codes

1. Press “MENU” to open menu options.
2. Press “UP” arrow to scroll through menu options until “S.A.M.E. SET” is displayed, press “SELECT”.
3. Press “UP” arrow to go through choices, select “MULTIPLE”.
4. “S.A.M.E.01” will be shown, program your first county code by using the “UP” arrow to find the number. Press the “RIGHT” arrow to save and advance to the next number.

# Multiple S.A.M.E. Codes

5. After programming your first code, press “SELECT” it will show “S.A.M.E.01”, then press the “UP” arrow to advance to “S.A.M.E.02”.
6. Continue the same process for each county code. The radio will hold up to 25 codes.
7. When all your codes have been programmed, press “MENU” to close the menu.

# Choose an Alert

There are three different types of alert sounds:

Alert Type	Description of Tone
Display	Only a text alert will scroll on the display. There will be no audible sound.
Voice	The alert will sound for 8 seconds, then the voice of the weather broadcast for 5.
Tone	The tone will sound for 5 minutes, or until you press any button except the "WEATHER/SNOOZE" button, which toggles to the voice weather broadcast.

# Program the Alert

Once you have chosen your alert:

1. Press “MENU” to open options.
2. Press “UP” arrow until “ALT TYPE” is displayed, press “SELECT”.
3. Press “UP” arrow to scroll through the three alert types.
4. Press “SELECT” to choose the Alert Type you have selected.
5. Press “MENU” to exit the menu.

# Possible Messages

Possible Alerts	Messages
Blizzard Warning	BZW
Flash Flood Watch	FFA
Flash Flood Warning	FFW
Flood Statement	FFS
High Wind Watch	HWA
High Wind Warning	HWW
Severe Thunderstorm Watch	SVA

Possible Alerts	Messages
Severe Thunderstorm Warning	SVR
Severe Weather Statement	SVS
Tornado Watch	TOA
Tornado Warning	TOR
Winter Storm Watch	WSA
Winter Storm Warning	WSW

Go to [www.weather.gov/os/eas\\_codes.shtml](http://www.weather.gov/os/eas_codes.shtml) for other possible messages.

# Alerts

The radio can store up to ten different Weather/Hazard alerts with overlapping effective times in the memory.

If the radio receives any new alerts while an old alert is still in effect, the radio will automatically show the new alert. You may view the older alerts that are still in effect by pressing the “UP” arrow. A double beep will alert when you have reached the end of the list. “NO MESSAGE” will be displayed if no alerts are active.

When the time for the alert has passed, the light and message will automatically reset to their normal appearance.

# Tests

There will be periodical test signals that will be done by your local NWS station. This will ensure your radio is working properly.

No audio sound will be heard, only a text message will be displayed, “Weekly Test” or “Monthly Test”, with the yellow advisory LED lit up.

\*Note: If your advisory light is on and continues to stay on, the radio will reset this function within six hours.

# S.A.M.E. County Code Record

- For easy use, keep a chart nearby for record of what counties are on your NWR.

County Name	SAME County Code	NWS Channel
Hendricks	018063	7
Marion	018097	7
Morgan	018109	7
Putnam	018133	1

# Where Can I Get My Weather Radio?

- Electronic stores, boating and marine stores, retail stores, department and sporting stores, or the internet.
- Cost ranges from \$20-100 depending on which brand and model.
- Look for the brand which carries the Public Alert Logo.



# Help and More Information

For additional help, you can ask your electronics dealer, or visit:

[www.midlandradio.com](http://www.midlandradio.com)

[www.nws.noaa.gov](http://www.nws.noaa.gov)

[www.nws.noaa.gov/nwr](http://www.nws.noaa.gov/nwr)

[www.weather.gov](http://www.weather.gov)