

Product Dissemination

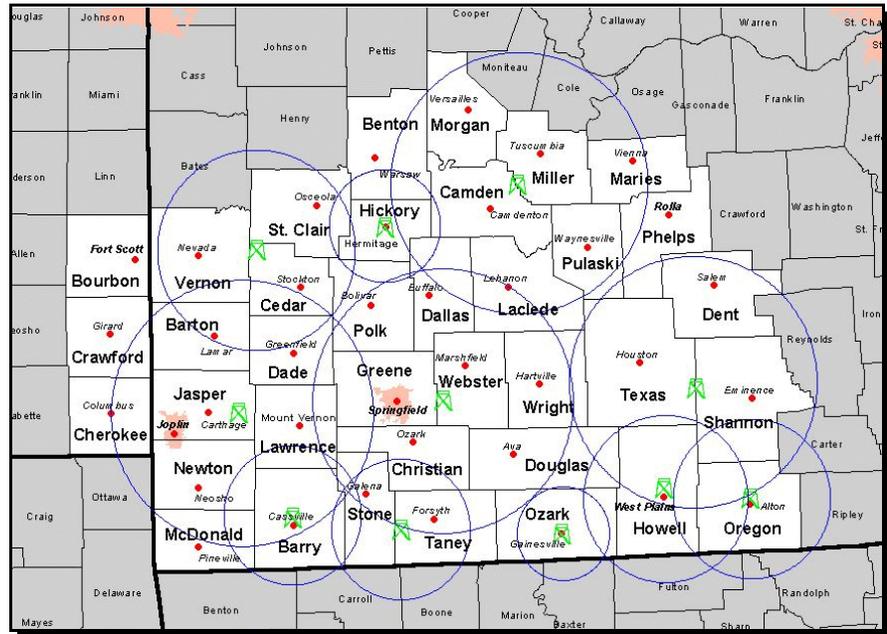
Once weather products are produced, the information is disseminated in a timely manner. The NWS disseminates weather forecasts and warnings by a number of methods. Several methods of data transmission are described below.

NOAA Weather Radio

NOAA Weather Radio (NWR) provides weather information directly from the NWS office 24 hours a day. Weather information including forecasts, current conditions, and weather summaries are recorded and repeated every 4 to 6 minutes. During severe weather events, the NWS will include warning messages. When life threatening weather is anticipated, the NWS will activate specially designed warning receivers. These receivers either sound an alarm or are automatically turned on to alert you of the emergency. www.nws.noaa.gov/nwr/nwrhome.html

The NWR broadcasts can usually be heard as far as 40 miles from the antenna site. The effective range depends on many factors, particularly the height of the broadcast antenna, terrain, quality of the receiver and the type of receiving antenna.

Be sure to purchase a radio receiver which advertises Specific Area Message Encoding (SAME). This allows the user to program the radio to tone alert for only counties of interest.



Station	Transmitter Location	Frequency	Some cities within range
WXL-46	Forland	162.400 MHz	Springfield, Branson, Ozark
WXJ-61	Avilla	162.425 MHz	Joplin, Neosho
KZZ-82	Gainesville	162.425 MHz	Gainesville
WXM-81	Hermitage	162.450 MHz	Hermitage
WWF-76	Summersville	162.475 MHz	West Plains, Houston, Eminence
KZZ-30	El Dorado Springs	162.475 MHz	Nevada, El Dorado Springs
KXI-35	Alton	162.500 MHz	Alton
KXI-38	West Plains	162.525 MHz	West Plains
WXJ-90	Osage Beach	162.550 MHz	Osage Beach, Lake of the Ozarks
KZZ-43	Branson	162.550 MHz	Branson, Galena
	Cassville	to be announced	
	West Plains	to be announced	

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NAWAS

The NWS in Springfield uses the National Warning System (NAWAS) to relay severe weather warnings to Emergency Management personnel. Funded by the Federal Emergency Management Administration (FEMA), the National Warning System (NAWAS) is a comprehensive partly-line network of telephone circuits connecting more than 1500 state and federal warning points throughout the United States.

NAWAS is used to warn the public, through local governments, about the 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 and other civil emergencies.

EMWIN

The Emergency Managers Weather Information Network (EMWIN) is a one time purchase, low cost method of receiving NWS information. The data is received free of charge using a small dish satellite receiving system connected to a home or office personal computer. 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 weather graphics like the radar summary and some satellite imagery. The data is available nation wide directly from satellites and the system can be purchased by anyone. This system also allow retransmission through out a community. All you need is a computer, receiver and demodulator.

➡ <http://iwin.nws.noaa.gov/emwin/winven.htm>

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 Springfield has direct access to this system. Specific Area Message Encoders (SAME) have been installed on the current NOAA Weather Radio system that allow for transmitted tones to directly trigger radio and television station EAS equipment. The NWS will utilize EAS to warn the public of life threatening severe weather events.

➡ <http://www.nws.noaa.gov/nwr/index/html>

Internet

The Internet provides a wealth of weather information. Current weather observations, forecasts, maps, satellite and radar imagery are stored on computers at universities, government agencies and private companies, and are accessible to anyone via the Internet. National Weather Service sites include:

➡ <http://www.crh.noaa.gov/sgf/>
➡ <http://www.nws.noaa.gov>

Telephone

The general public can call the NWS 24 hours a day at 417-869-4491 to receive current conditions and forecasts. A menu option will allow you to speak with a forecaster after the recording.

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Mass Media Dissemination

Weather products are sent to media outlets such as TV and radio stations by utilizing news services as well as private vendors. These products are identified using a World Meteorological Organization (WMO) header and product ID. The WMO abbreviated header or COMMS header was agreed by WMO members for use in exchanging data and products on the Global Telecommunication System between National Meteorological Centers of the world.

The product ID, CCCNNNXXX, is seven to eight characters where CCC is the parent office, NNN is the product name, and XXX is the originating office ID. An example of this code is STLZFPST, where STL represents St. Louis Forecast Office, ZFP is for the Zone Forecast Product and ST is the ID for the Springfield Weather Forecast Office.

➡ <http://www.nws.noaa.gov/tg/cominfo.html>

The example below shows the codes for the zone forecast product. Other examples can be found throughout this guide.

FPUS53 KSGF DDHHMM ZFPSGF	<i>WMO heading and office ID; Issuance time; AWIPS Product ID</i>
MISSOURI ZONE FORECASTS NATIONAL WEATHER SERVICE SPRINGFIELD MO xx xx xxx xxx xx xxxx	<i>NWS Product Name Issuing Office Name Issuance Time / Date</i>
MOZxxx>xxx-xx>xxx>xx-DDHHMM county - county - county INCLUDING THE CITIES OF...town...town...town... xxx xx xxx xxx xx xxxx	<i>UGC code & expiration time County names City names Issuance time / date</i>
\$\$	<i>This code ends the zone segment.</i>

Products use either a county ID or FIPS code, or zone ID to identify what counties are contained in a product or particular segment of a product.

	FIPS Code	County Code						
Kansas			Missouri (Cont)					
Bourbon	011	073	Dent	065	083	Ozark	153	105
Cherokee	021	101	Douglas	067	096	Phelps	161	071
Crawford	037	097	Greene	077	090	Polk	167	079
			Hickory	085	068	Pulaski	169	070
Missouri			Howell	091	097	Shannon	203	098
Barry	009	102	Jasper	097	088	St Clair	185	067
Barton	011	077	Laclede	105	081	Stone	209	103
Benton	015	055	Lawrence	109	094	Taney	213	104
Camden	029	069	Maries	125	058	Texas	215	082
Carter	035	107	McDonald	119	101	Vernon	217	066
Cedar	039	078	Miller	131	057	Webster	225	091
Christian	043	095	Morgan	141	056	Wright	229	092
Dade	057	089	Newton	145	093			
Dallas	059	080	Oregon	149	106			

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Product List

Category	Product	Product ID	WMO ID	Issuance
Routine Products	Area Forecast	STLAFDSGF	FXUS63	0300, 1400, updates
	Area Weather Summary	STLAWSSGF	AWUS43	0500, 1000, 1700, 2100
	Short Term Forecast	STLNOWSGF	WWUS35	as needed
	Zone Forecast	STLZFPSGF	FPUS73	0400, 1600, updates
	Hazardous Weather Outlook	STLHWOSGF	FPUS53	0600, 1300, updates
Severe Weather Products	Severe Thunderstorm Warning	STLSVRSGF	WUUS53	as needed
	Tornado Warning	STLTORSGF	WFUS53	as needed
	Flash Flood Warning	STLFFWSGF	WGUS53	as needed
	Severe Weather Statement	STLSVSSGF	WWUS34	as needed
	Flash Flood Statement	STLFFSSGF	RWUS32	as needed
	Severe Weather Watch	STLSLSMO TOPSLSKS	WWUS32	as needed
	Special Weather Statement	STLSPSSGF	FPUS53	as needed
	Hazardous Weather Outlook	STLHWOSGF	FPUS53	0600, 1300, updates
	Convective Outlooks	MKCSWODY1 MKCSWODY2	ACUS01	0800, 1200, updates
	Local Storm Report	STLLSRSGF	WWUS30	as needed
Winter Weather	Winter weather watches, warnings & statements	STLWSWSGF	WWUS43	as needed

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Category	Product	Product ID	WMO ID	Issuance
Hydrological	River Summary	STLRVASGF	SRUS43	1000
	Lake Stages	STLLKESGF	FPUS97	0900
	River Statement	STLRVSSGF	FGUS83	as needed
	Hydrologic Outlook	STLESFSGF	FGUS73	as needed
	Flood Watch	STLFLASGF	WGUS63	as needed
	Flood Warning	STLFLWSGF	WGUS43	as needed
	Flash Flood Warning	STLFFWSGF	WGUS53	as needed
	Flood Statement	STLFLSSGF	RWUS42	as needed
	Flash Flood Statement	STLFFSSGF	RWUS32	as needed
Climate	Daily Climate Summary	STLCLISGF	CDUS43	0100, 1600, 1730
	Monthly Climate Summary	STLCLMSGF	CXUS43	end of month
	Regional Temperature/Precipitation Table	STLRTPSGF	ASUS63	0630, 0930, 1730
	Record Event Report	STLRERSGF	SXUS99	as needed
	State Weather Roundup	STLSWSMO	ASUS43	hourly
	Public Information Statement	STLPNSSGF	ABUS34	1000, as needed
	METAR Observation	STLMTRSGF	SAUS70	hourly, updates
Fire	Fire Weather Forecast	STLFWFSGF	FNUS97	0830, 1500
	Fire Weather Watch	STLRFWSGF	WWUS83	as needed
	Red Flag Warning	STLRFWSGF	WWUS83	as needed