



Wisconsin ARES®/RACES

Wisconsin ARES/RACES Simplex & Emergency Frequencies

The purpose of this document is to establish several standard frequencies and PL/CTCSS tones for use by the ARES/RACES personnel in the state of Wisconsin. This plan establishes a minimum amount of simplex channels that the ARES/RACES personnel can pre-program into their radios for use in local emergency and large mutual aid situations.

1: It establishes pre-determined simplex frequencies that will reduce interference with established channels such as 146.5200 (National Calling Frequency). The frequencies are spaced to avoid interference with each other when used in close proximity to each other on a major incident.

2: It establishes transmit and receive PL/CTCSS tones that would have the minimal interference when used in the congested RF environment of a “Command Post” or “Emergency Operations Center” situations. The PL/CTCSS tones are such that we will refrain from using some of the common tones used on the Mutual Aid Frequencies list and frequencies used by local emergency response agencies such as police, fire, EMS, State Patrol, and DNR.

3: It designates a short “Channel Name” that could be programmed in a radios visual display, for easy recall in an emergency situation. Example: “Go to WIV-2” instead of “Go to One Forty-Six point Four Three Zero, CTCSS tone 7Z, One Eighty Six point Two”.

4: The four frequencies are divided between the 72 counties in the state. These frequencies are designated the counties “Primary Emergency Simplex Channel” for use when the normal repeater channels are out of service.

5: It provides for one frequency for “County to County” or “Point to Point” communications. The “County to County” frequencies may also be used as a designated “Hospital to Hospital” frequency.

6: These channels can be assigned for different uses as needed by the “Incident Commander” at a large incident, (example: WIV-1=Shelters, WIV-2=Food Delivery, WIV-3= etc.). An example would be to use multiple channels on a large incident affecting just one area such as tornado clean up, wildland fire incident, etc, where the Incident Commander has ARES personnel performing many tasks.

7: The WIV-CMD and WIU-CMD channels are to be used by the “Incident Commander” for communications to other command staff at the incident such as ARES

leadership acting in a leadership capacity. It can also be used by the commander or other command staff to communicate with other amateur operators at the command post if necessary.

8: The crossband repeater channels should be primarily used to crossband into a repeater. So, if you needed to get into a VHF repeater, you would set the VHF side of your radio to the correct repeater and then set your UHF side to 446.4875 with a PL/CTCSS tone of 114.8. If you needed to crossband into a UHF repeater, you would set the VHF side to 147.5400 with a PL/CTCSS tone of 114.8 and then set your UHF side to the correct repeater. If the incident does not have repeater coverage you may set the side that would normally have a repeater to the correct simplex frequency needed. Great care must be taken when using the crossband function. There should only be one crossband repeater in use in an area. Having multiple crossband radios in operation at the same time in the same coverage area can cause lots of interference and can cause communications to fail.

Wisconsin ARES/RACES - Simplex Emergency Frequencies						
Use	Channel	Frequency	PL/CTCSS	Channel	Frequency	PL/CTCSS
County	WIV-1	146.4000	1B/107.2	WIU-1	446.0500	1B/107.2
County	WIV-2	146.4300	5Z/151.4	WIU-2	441.0750	5Z/151.4
County	WIV-3	147.4200	5B/162.2	WIU-3	446.1500	5B/162.2
County	WIV-4	147.4800	6A/173.8	WIU-4	446.2000	6A/173.8
Co. To Co.	WIV-5	146.5800	7Z/186.2	WIU-5	441.0250	7Z/186.2
Command	WIV-CMD	147.5850	1Z/100.0	WIU-CMD	446.3750	1Z/100.0
Wisconsin ARES/RACES - Portable Repeater Frequencies						
Name	Receive	RX-PL	Transmit	TX-PL	Use	
WI-VPR	146.4600	2A/114.8	147.4600	2A/114.8	VHF Portable Repeater	
WI-UPR	442.1250	2A/114.8	447.1250	2A/114.8	UHF Portable Repeater	
Wisconsin ARES/RACES - Crossband Repeater Frequencies						
Name	VHF TX/RX	TX/RX PL	UHF TX/RX	TX/RX PL	Use	
WI-CB	147.5400	2A/114.8	446.4875	2A/114.8	Crossband	

9: The statewide portable repeater frequencies are paired as shown below. We will use 146.4600/147.4600 as the State's standard VHF portable repeater and 442.1250/447.1250 as the State's standard UHF portable repeater. If for some reason you can't use the standard portable repeater pair, move to one of the other back up portable repeater pairs.

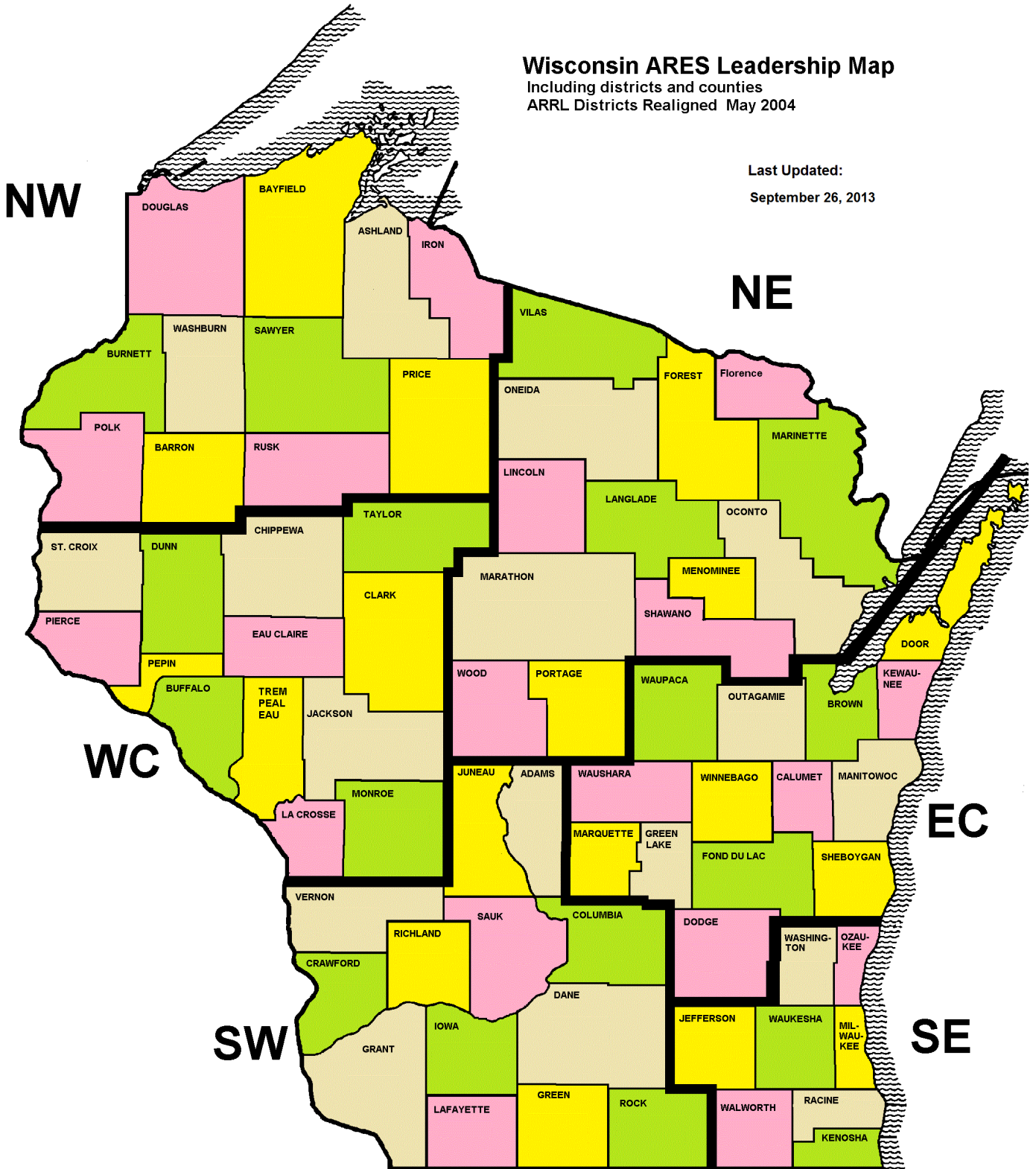
Wisconsin ARES/RACES - VHF/UHF Portable Repeater Frequencies					
Name	Receive	RX-PL	Transmit	TX-PL	Use
NE-VPR	146.4600	2A/114.8	147.4600	2A/114.8	VHF Portable Repeater
NE-VPR-A	146.4750	2A/114.8	147.4750	2A/114.8	VHF Portable Repeater
NE-VPR-B	146.4900	2A/114.8	147.4900	2A/114.8	VHF Portable Repeater
NE-UPR	442.1250	2A/114.8	447.1250	2A/114.8	UHF Portable Repeater
NE-UPR-A	440.5000	2A/114.8	445.5000	2A/114.8	UHF Portable Repeater
NE-UPR-B	441.5000	2A/114.8	446.5000	2A/114.8	UHF Portable Repeater

Wisconsin ARES/RACES HF Frequencies / Nets				
	Primary	Secondary		Weekly Net
Wisconsin ARES/RACES HF Net 75M	3967 kHz	3977.5 kHz	LSB	Sunday 8:00am
Wisconsin ARES/RACES Net 40M Backup *use when conditions warrant	7250 kHz	7245 kHz	LSB	Sunday 8:00am
Wisconsin ARES/RACES Digital Nets				
Wisconsin ARES/RACES Winlink Net (WRACES-D)	145.6100 MHz		Tues	All day
Wisconsin ARES/RACES District HF Frequencies				
Wisconsin ARES - Northeast District Net	3995 kHz	LSB	Only when needed	
Other Wisconsin HF Nets				
Badger Weather Net (BWN)	3984 kHz	LSB	Daily	5am to 7:15am
Badger Emergency Net (BEN)	3985 kHz	LSB	Daily	12:00 noon
Badger Emergency Net 40M Backup *use when conditions warrant	7270 kHz	LSB	Daily	12:00 noon
Wisconsin Sideband Net (WSBN)	3985 kHz	LSB	Daily	5:00pm
Wisconsin Sideband Net 40M Backup *use when conditions warrant	7270 kHz	LSB	Daily	5:00pm
Wisconsin Novice Net (WNN)	3555 kHz	CW	Daily	6:00pm
Wisconsin Slow Speed Net (WSSN)	3555 kHz	CW	Sun, Tues, Wed, Thur, Fri	6:30pm
Wisconsin Intrastate Net-Early (WIN/E)	3555 kHz	CW	Daily	7:00pm
Wisconsin Intrastate Net-Late (WIN/L)	3555 kHz	CW	Daily	10:00pm
Other Surrounding State ARES/RACES HF Nets				
Indiana	3920 kHz		LSB	
Illinois	3905 kHz		LSB	
Michigan	3932 kHz		LSB	
Minnesota	3860 kHz		LSB	
Iowa	3970 kHz		LSB	

Wisconsin ARES Leadership Map

Including districts and counties
ARRL Districts Realigned May 2004

Last Updated:
September 26, 2013



WIV-1 / WIU-1	146.400 PL 107.2 / 446.050 PL 107.2	WIV-2 / WIU-2	146.430 PL 151.4 / 441.075 PL 151.4
WIV-3 / WIU-3	147.420 PL 162.2 / 446.150 PL 162.2	WIV-4 / WIU-4	147.480 PL 173.8 / 446.200 PL 173.8

WIV-5 (146.580 PL 186.2) and WIU-5 (441.025 PL 186.5) are available statewide
WIV-CMD (147.585 PL 100.0) and WIU-CMD (446.375 PL 100.0) are for on scene use among command staff
WI-CB (147.540 PL 114.8 and 446.4875 PL 114.8) is the standard WI crossband frequencies
WI-VPR (RX 146.460 PL 114.8 / TX 147.460 PL 114.8) is the standard WI 2M portable repeater
WI-UPR (RX 442.125 PL 114.8 / TX 447.125 PL 114.8) is the standard WI 70cm portable repeater