

Minnesota Repeater Council (MRC)

33 CM (900Mhz) BAND PLAN (902 to 928 Mhz)

Frequency in Mhz	Use
902.000 – 902.300	Weak signal modes (CW, SSB, EME, Beacons)
*902.3125 – 902.4875	Narrowband FM/DV repeater inputs (25 Khz channel spacing)
902.500	National FM simplex (15Khz wide channel)
902.8500 - 902.9750	Narrowband FM/DV repeater inputs (25 Khz channel spacing)
*902.9875	Narrowband SNP/portable repeater input
903.000 - 903.400	Weak Signal Modes (CW, SSB, EME, Beacons)
903.425 to 906.975	Digital Communications
904.00 -909.750	Intelligent Transportation Services (Part 90 Higher Priority)
*907.000 – 908.900	FM Repeater inputs (50 Khz channel spacing)
*909.000 – 915.000	ATV repeater input
*915.025- 916.000	FM Auxilary/Control links (25Khz channel spacing)
916.025 - 918.975	Digital Communications
919.000 - 928.000	Intelligent Transportation Services (Part 90 Higher Priority)
*919.000 - 920.900	FM repeater outputs (50 Khz channel spacing)
*921.000 - 927.000	ATV repeater output
*927.3125 – 927.4875	Narrowband FM/DV repeater outputs (25 KHz channel spacing)
927.600	Alternate FM Simplex (15 Khz wide channel)
927.700	Alternate FM Simplex (15 Khz wide channel)
927.800	Alternate FM Simplex (15 Khz wide channel)
*927.8500 - 927.9750	Narrowband FM/DV repeater outputs (25 Khz channel spacing)
*927.9875	Narrowband SNP/Portable repeater output

*Coordinated by Minnesota Repeater Council (MRC) Repeater Frequency coordinator

NOTES:

1) The above Minnesota band plan is based on various accepted band plans and does not always follow the band plan in the ARRL repeater directory.

2) Repeater frequencies with an offset of 25 Mhz, are coordinated on 25 Khz channel steps. The repeater frequencies, with a 12 Mhz offset, are coordinated on 50 Khz steps.

3) Normal digital operations, on this band, ARE NOT frequency coordinated by any party in the state of Minnesota. Speed of digital operations must be adjusted so that transmitted signal is not wider than a phone type signal of the same type. Maximum recommended baud rate is 56K baud. **Digital Voice Repeaters on designated repeater pairs are frequency coordinated.**

4) Simplex auxiliary/control links have coordinated frequencies at 915 Mhz to 916 Mhz. Duplex auxiliary/control links should be operated/coordinated on repeater frequencies.

5) Intelligent Transportation System (formerly called Automatic Vehicle Locating), which is a Part 90 licensed service, has a higher priority in this spectrum and is operating on some of these 902 to 928 Mhz frequencies. Amateur Radio cannot cause ‘Harmful interference’ to these licensed uses on these frequencies.

6) Cordless phones, which are un-licensed and share this spectrum, are typically spaced every 30, 60 or 100 Khz between 927.500 and 927.800 Mhz. Some common frequencies are 927.5000, 927.5100, 927.5650, 927.5700, 927.6000, 927.6250, 927.6300, 927.6600, 927.6850, 927.6875, 927.6900, 927.7200, 927.7450, 927.7500, 927.7800, 927.8050, 927.8100, 927.8400, 927.8650 and 927.8700. You might try and avoid these frequencies for your repeater.

7) Wireless Internet services (un-licensed 802.11 channels) also share this spectrum and have up to 20 Mhz wide channels centered on 907.000, 912.000, 917.000 and 922.000 Mhz.

Motorola “Canopy” (un-licensed) systems use 3 non-overlapping channels that are 8 Mhz wide and can be set with a center frequency of 906, 907, 911, 915, 919, 923 or 924 Mhz. If such a system is used in your area it is suggested that you advise the system operator to use 907 Mhz (instead of 906 Mhz) to lessen the interference to narrowband amateur radio repeater inputs on 902 mhz frequencies.

The 12 Mhz offset repeater pairs are coordinated on 50 Khz steps:

907.000/919.000, 907.050/919.050, 907.100/919.100, 907.150/919.150, 907.150/919.150

...and every 50 Khz step thereafter through ..

908.650/920.650, 908.700/920.700, 908.750/920.750, 908.800/920.800, 908.850/920.850

Narrowband repeater pairs (25 Mhz offset) are coordinated on 25 Khz steps:

902.3250/927.3250, 902.3500/927.3500, 902.3750/927.3750

...and every 25 Khz step thereafter through ..

902.9800/927.9800, 902.9825/927.9825, 902.9850/927,9850 and 902.9875/927.9875

Recommended FM simplex 902-928 Mhz band frequencies (100 Khz matrix)

902.500. 927.600, 927.700 and 927.800 Mhz