

THIS IS A “RE-WRITE” OF A Wikipedia ARTICLE, TO MAKE IT EASIER TO UNDERSTAND.

PLEASE THINK ABOUT FREQUENCIES RATHER THEN CHANNEL NUMBERS,

As any radio could be programed with any frequency in any channel number .....

## Frequency assignments

---

GMRS is allotted 30 frequency channels in the vicinity of 462 MHz and 467 MHz

They are divided into 16 main channels and 14 interstitial channels.

Licensees may use the eight main 462 MHz channels for [simplex communication](#) or [repeater](#) outputs. ( Channels 15 thru 22 on the list below )

---

---

---

The eight main 467 MHz channels may only be used as repeater inputs, in conjunction with the 462 MHz channels as outputs.

The repeater input frequencies are exclusive to GMRS and may only be used by licensed GMRS operators.

---

---

---

GMRS operators are permitted to transmit at up to 50 **watts**, on the 16 main channels.( which are the eight repeater outputs and the eight repeater inputs )

The interstitial frequencies are in-between the main channels, and they may be used for simplex as long as the **transmitter power output** does not exceed 5 watts.

The 467 MHz interstitial frequencies have a power limit of 500 milliwatts **ERP**, and they may only be used by hand-held portable units.

## **Sharing with FRS**

All 22 **Family Radio Service** (FRS) frequencies are shared with GMRS, and users of the two services may communicate with each other.

With the exception of FRS channels 8 through 14, GMRS licensees may use higher power radios with detachable or external antennas.

**PLEASE THINK ABOUT FREQUENCIES RATHER THEN CHANNEL NUMBERS**

## **Frequency Table**

<b>Frequency</b>	<b>FRS Channel</b>	<b>FRS Power</b>	<b>FRS Bandwidth</b>	<b>GMRS Power</b>	<b>GMRS Bandwidth</b>	<b>Notes</b>
462.5625 MHz	1	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.5875 MHz	2	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.6125 MHz	3	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.6375 MHz	4	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.6625 MHz	5	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.6875 MHz	6	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
462.7125 MHz	7	2 W	12.5 kHz	5 W	20 kHz	(1)(4)(5)
467.5625 MHz	8	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.5875 MHz	9	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.6125 MHz	10	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.6375 MHz	11	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.6625 MHz	12	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.6875 MHz	13	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)
467.7125 MHz	14	0.5 W	12.5 kHz	0.5 W	12.5 kHz	(1)(4)(6)

<b>Frequency</b>	<b>FRS Channel</b>	<b>FRS Power</b>	<b>FRS Bandwidth</b>	<b>GMRS Power</b>	<b>GMRS Bandwidth</b>	<b>Notes</b>
462.5500 MHz	15	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.5750 MHz	16	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.6000 MHz	17	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.6250 MHz	18	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.6500 MHz	19	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.6750 MHz	20	2 W	12.5 kHz	50 W	20 kHz	(2)(5)(7)
462.7000 MHz	21	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
462.7250 MHz	22	2 W	12.5 kHz	50 W	20 kHz	(2)(5)
467.5500 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.5750 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.6000 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.6250 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.6500 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.6750 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)

Frequency	FRS Channel	FRS Power	FRS Bandwidth	GMRS Power	GMRS Bandwidth	Notes
467.7000 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)
467.7250 MHz	N/A	N/A	N/A	50 W	20 kHz	(3)(5)

**Table Notes**

- (1) Shared FRS and GMRS simplex.
- (2) Shared FRS and GMRS simplex; GMRS repeater output.
- (3) GMRS repeater input. The output frequency of this repeater input is the input frequency minus 5 MHz.
- (4) FRS transmissions are limited to bandwidth of 11 kHz with a transmitter deviation of +/- 2.5 kHz. Channels are on 12.5 kHz centers.
- (5) GMRS transmissions may have a bandwidth of 16 kHz with a transmitter deviation of +/- 5.0 kHz. Channels are on 25 kHz centers.
- (6) GMRS transmissions are limited to a bandwidth of 11 kHz with a transmitter deviation of +/- 2.5 kHz. Channels are on 12.5 kHz centers.
- (7) National GMRS calling channel (CTCSS tone 141.3 Hz).

**Note:** Some inexpensive GMRS mobiles and portables do not fully comply with FCC permissible modulation bandwidth for GMRS and thus have weak transmitter audio and reduced range.

**PLEASE THINK ABOUT FREQUENCIES RATHER THEN CHANNEL NUMBERS**