



Repeaters: Borrowing a Tall Tower

How one radio on a hill can stretch your range from 2 miles to 20 or more

What a repeater does

1

Your radio transmits

On a 467 MHz input channel (shown as 15R-22R)

2

The tower hears you

Its antenna sits high, often 100 feet or more

3

It retransmits instantly

On the matching 462 MHz channel, with more power

4

Everyone in range hears it

Even family members miles beyond your handheld's reach

Why it works

Height is everything in radio.
A repeater lends you its
height.

The numbers

5 MHz

gap between what
you send and what
you hear

8

repeater channels
(15R-22R)

20-50

miles of typical
coverage

50 W

maximum repeater
power

Repeater inputs are for licensed GMRS users only; plain FRS walkie-talkies can't use them.

Finding and using one



Look it up

Search myGMRS.com or RepeaterBook for towers near you and the ranch



Ask permission

Most repeaters are privately owned; the owner decides who may use them



Set the tone

Repeaters need a specific access tone; the listing gives it



Keep it short

Others share it; pause between messages so someone can break in

The catch

Great for everyday

- Family checks in across the county
- Works from inside a car or house
- No gear on your roof needed

Don't count on it in a disaster

- Many towers lose power when the grid goes down
- Some are shut down or full of traffic
- Have a direct radio-to-radio plan too

Remember

Use repeaters for range, but always have a radio-to-radio plan that works without one.