

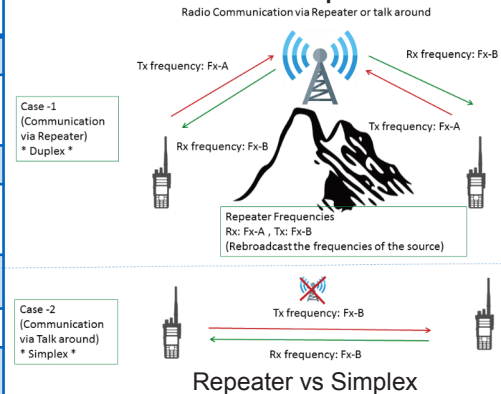


# Emergency Communications

When cell phones don't work (infrastructure is down, no cell coverage, etc) what is your plan to get in touch with loved ones?

Name	Distance	Email/Data	Voice (phone)	Digital Voice	Support Structure Needed	Repeater	Price
FRS	1 mile	No	Yes	No	No	No	\$
GMRS 	Up 10 miles	No	Yes	No	No	Yes	\$-\$-\$
MURS	2-3 miles	No	Yes	No	No	No	\$\$
SatCom Phone	Unlimited	No	Yes	Yes	Yes	N/A	\$\$\$\$\$\$\$\$
Sat Email	Unlimited	Yes	No	N/A	Yes	N/A	\$\$ & Subscription
CB Radio	<10 miles	No	Yes	No	No	No	\$\$
Ham 	1 mile to Unlimited	Yes	Yes	Yes	No	Yes	\$-\$-\$-\$-\$

## What's a repeater?



**FRS:** Family Radio Service **GMRS:** General Mobile Radio Service  
**MURS:** Multi-Use Radio Service **SatCom:** Satellite Comms  
**Sat Email:** Garmin inReach, similar **CB Radio:** Citizen Band Radio  
**Ham:** Amateur Radio

### Notes

No Encryption unless licensed for Business freq, \$\$\$, logistics  
 Digital is harder to decode  
 Community support non-existent to limited except for Ham

## Common Questions

### Do I need a license?

Yes, for ham and GMRS. There is no exam for GMRS. Cost is \$35 for you and your immediate family, good for 10 years. Ham licenses are ~\$35 per license.

### How far can I talk?

It depends. Most of the frequencies we'd be using are line-of-sight. Trees, buildings, hills, etc greatly reduce range.

For a more detailed explanation: <https://shorturl.at/NSpfO>

### Are the radios expensive?

They can be, but don't have to be. The Chinese have the market on inexpensive radios (as low as \$18). With that said, you get what you pay for.

For a more detailed explanation: <https://shorturl.at/x5eYB>

## Useful URLs

Which Radio Service Do I Want? <https://shorturl.at/NiUSN>

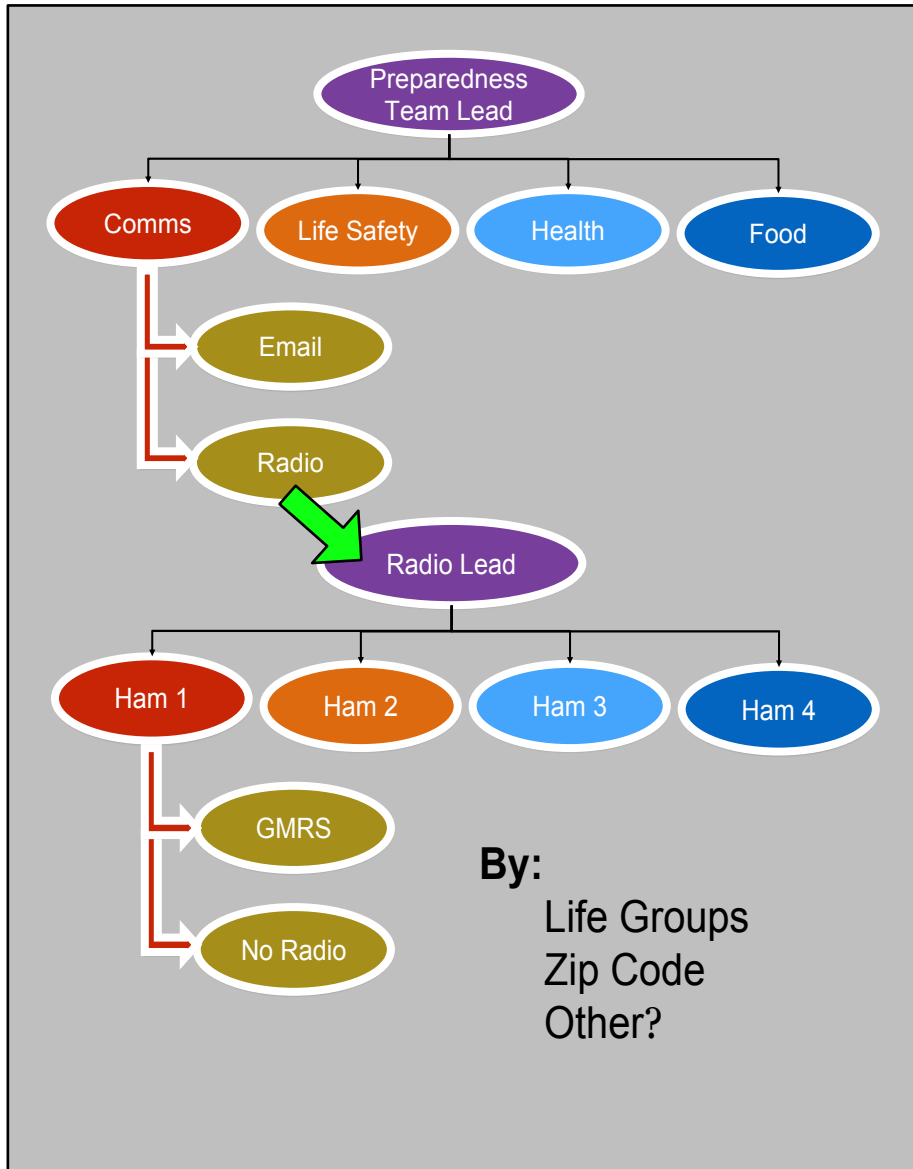
How Far Can I Talk? <https://shorturl.at/NSpfO>

Recommended Comm Gear: <https://shorturl.at/x5eYB>

Or just go here: <https://backcountrybowhunting.com/backcountry-communications/>

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# Sample Team Structure



## IMPORTANT

It is more efficient to communicate complex information (detailed instructions, maps, diagrams, etc) via a doc or pdf when compared to verbal.

So, why have a ham radio operator? No other radio operator type has the capability to send email, documents, PDF's. Having one or two ham's on your team can be **EXTREMELY** beneficial!

## Questions about the team structure?

Let's talk.

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