Once our good antenna is reinstalled our coverage area will improve.

The **Yaesu DR-1X** is a full featured C4FM/FM dual band repeater/base station. Unlike many other repeaters, the DR-1X handles conventional FM *and* C4FM digital transmission. The Yaesu *System Fusion* technology features the *AMS - Automatic Mode Select* function that instantly recognizes whether the signal is C4FM digital or conventional FM and automatically switches to match the received mode.

Ours is set to Auto/Auto on VHF. This means if you go in digital, you come out digital or in FM out FM.

Yaesu has three radios that work both digital and normal FM. I will provide a short description of them.

The **Yaesu FTM-3200DR** is a ruggedly built, compact C4FM/FM 2 meter mobile transceiver, providing up to 65 Watts to ensure stable long-distance communications. You get 220 alphanumeric memories: 199 “Regular” memories, one “Home” channel ffor a favorite frequency or repeater pair, and 10 sets of band-edge memories. While the new FTM-3200DR is a solid and durable transceiver in keeping with Yaesu’s legendary mechanical toughness, it also incorporates new technology such as Automatic Mode Select (AMS), one of the most advanced features of *System Fusion*. The AMS mode instantly recognizes whether a transmission is digital or analog, and appropriately switches the operating mode to allow flawless co-existence of both digital and analog users. The versatile FTM-3200DR transceiver also utilizes the ever-popular Digital Group Monitor (GM) function; a terrific asset allowing users to see at a glance if registered members of a group are within communication range. A front panel LED indicates the transceiver's mode of operation with the received signal indicated by Blue for digital C4FM or Green for analog FM.

At Universal Radio it is $179.95.

The **Yaesu FTM-100DR** dual band mobile transceiver operates on 2 meters and 70 centimeters. The new FTM-100DR provides four modes:

V/D mode is Voice and Data communication in the same time frame. Stable and reliable digital voice and data communications are maintained using extraordinarily strong error correction capabilities. This mode will be the basic mode of C4FM FDMA Digital HAM radio.

Voice FR mode uses the full rate of data capacity for voice data. This mode enables you to transfer clear, high quality voice data.

Data FR mode uses the full rate of data capacity for transferring data. This mode enables you to transfer large amounts of data, text messages, images, and voice memo data with double speed in V/D mode.

Analog FM mode is effective when weak signal strength causes audio drop out in the digital mode, and enables communication up to the borderline of the noise level.

The radio features an *Automatic Mode Select (AMS)* function to identify these four modes and select them *automatically* when the radio receives a signal!

At Universal Radio it is $319.95.

The **Yaesu FTM-400DR** dual band mobile transceiver operates on 2 meters and 70 centimeters. The new FTM-400DR provides four modes:

V/D mode is Voice and Data communication in the same time frame. Stable and reliable digital voice and data communications are maintained using extraordinarily strong error correction capabilities. This mode will be the basic mode of C4FM FDMA Digital HAM radio.

Voice FR mode uses the full rate of data capacity for voice data. This mode enables you to transfer clear, high quality voice data.

Data FR mode uses the full rate of data capacity for transferring data. This mode enables you to transfer large amounts of data, text messages, images, and voice memo data with double speed in V/D mode.

Analog FM mode is effective when weak signal strength causes audio drop out in the digital mode, and enables communication up to the borderline of the noise level.

At Universal Radio it is $509.95. Yaesu has a mail-in rebate for 100.00.

Here is a link to the location of Fusion repeaters in Indiana. Laporte Radio Club has two.
https://www.repeaterbook.com/repeaters/FeatureSearch.php?type=YSF&state_id=18&band=%25