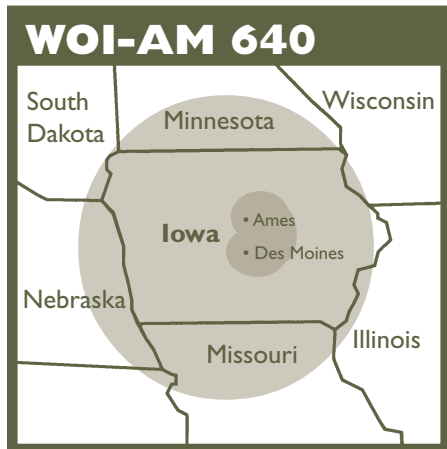


# WOI AM/FM

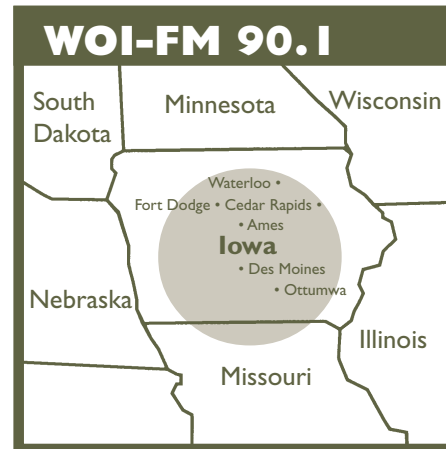
Public Radio for Iowa



WOI-AM 640, Iowa's News and Information station, is licensed to Iowa State University. It operates with a daytime power of 5,000 watts and a nighttime directional power of 1,000 watts from a transmitter located near Napier.

WOI's spot on the AM dial, combined with our broadcast power and soil conductivity in the Midwest, sends our signal out statewide. The map above shows the general coverage area for daytime listening, but we regularly receive listener reports from much farther away.

If only reception were that easy at night! The Federal Communications Commission requires WOI to broadcast at lower power between sunset and sunrise to protect a much larger "clear channel" station on the same frequency in Los Angeles. So at local sunset, we begin transmitting at 1,000 watts and we direct the signal to the east. As you can see, the change significantly reduces the station's coverage area at night (it's the darker shaded area on the map).



WOI-FM 90.1, also licensed to Iowa State University, is a cultural resource for central Iowa. WOI-FM offers 24 hours of classical music, jazz, entertainment programs, news and announcements of arts events and activities. WOI-FM is one of the "big-time" stations, operating at 100,000 watts—the maximum power allowed for FM stations by the Federal Communications Commission. We're also located on one of the tallest broadcast towers in Iowa—at 1,487 feet above average terrain on a 2,000-foot tower located near Alleman north of Des Moines. The studio and the transmitter are connected by a digital microwave link. As you can see from the coverage map above, WOI-FM serves a large portion of the state, centered on the Des Moines/Ames area.