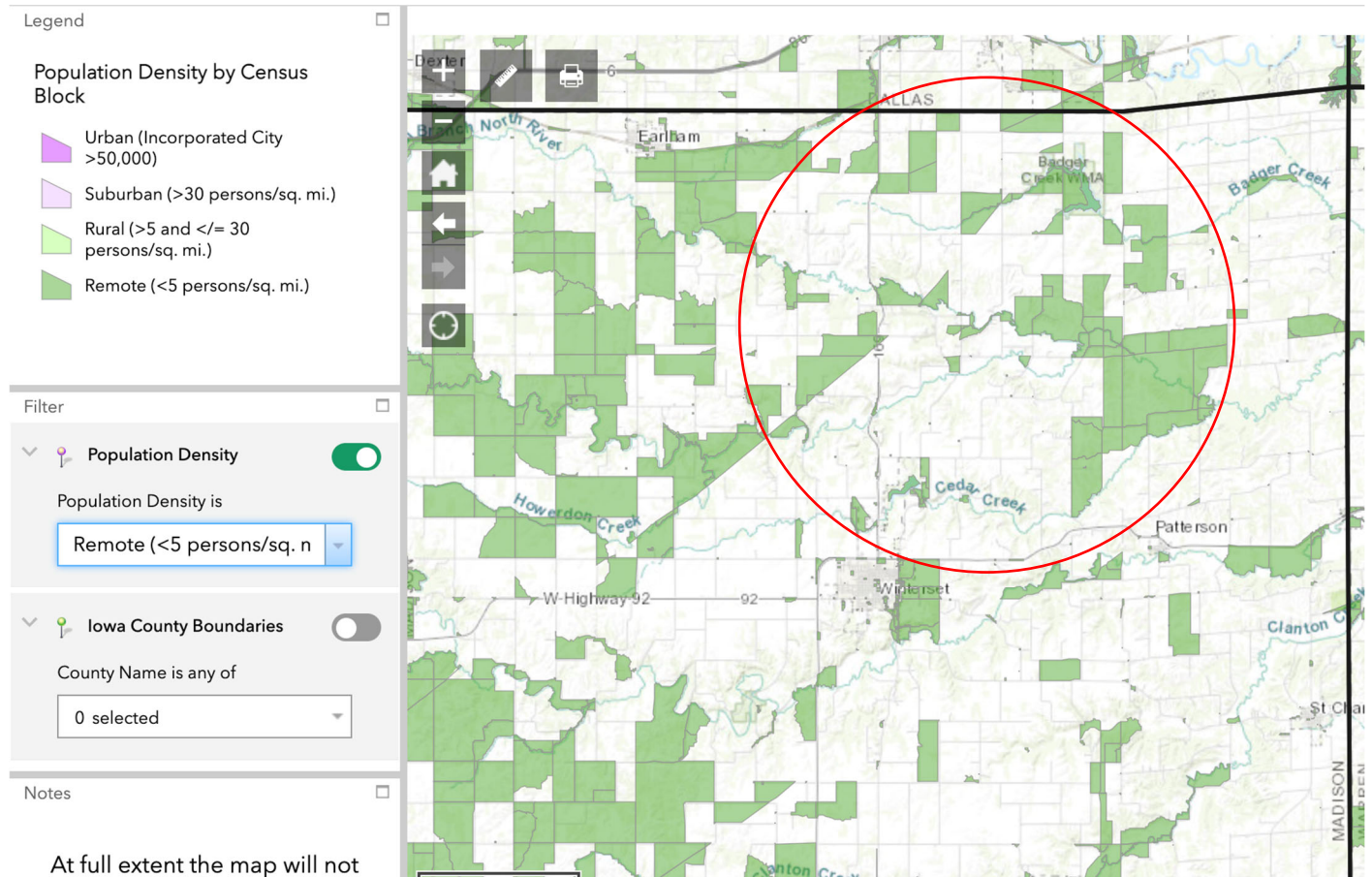


North Central Madison County – Barriers to Broadband Installation

Rurality

As this graphic from the [Greater Des Moines Partnership Study](#) shows, the proposed North Central Madison County Intervention Zone has low population density. On the map below, green census tracts have a population density of 5 or fewer persons per square mile which is considered remote. North Central Madison County Intervention Zone (red circle) shown on the graphic is approximate.



Topography

The terrain of North Central Madison County is another barrier to broadband deployment that should be considered. Below is a screenshot of a topographical map of the area ([original map here](#)) showing that the terrain in portions of the area is quite rugged. This topography is a barrier to quality fixed wireless service being deployed, which means the only likely way to provide broadband in many areas is with a landline connection.

