UNION COUNTY
broadband profile
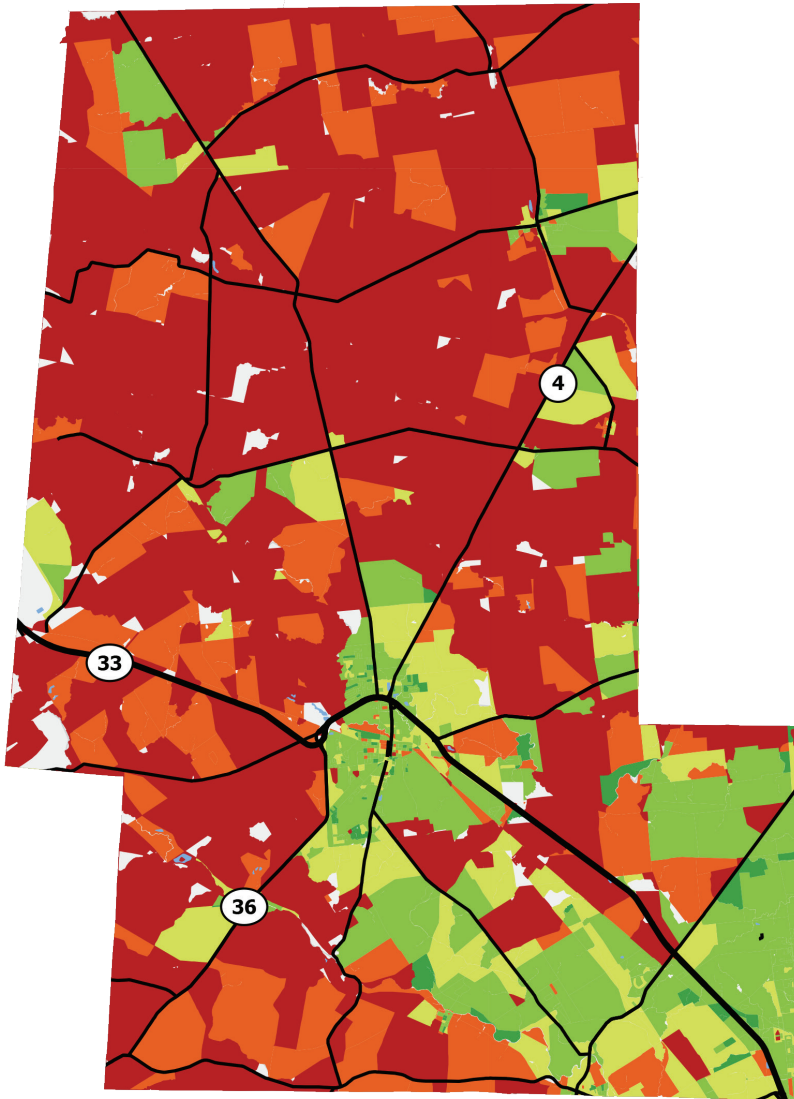
0-9 Mbps **10-24 Mbps** **25-49 Mbps** **50-100 Mbps** **100+ Mbps**

State Route   bodies of water

75%
of the populated area

&27%
of households

DO NOT HAVE ACCESS TO MINIMUM 25/3 Mbps

the county has ··········

422 mi²
of populated area
▶ *317 mi² are unserved*

23,866 *households*
▶ *6,421 are below 25/3*

67%
below 10/1 Mbps
= *4,315 households*

About the Mapping

This map is based on a rating system developed by Reid Consulting Group, LLC. Data sources include Ookla Speedtest Intelligence® data licensed by InnovateOhio from the State of Ohio for the months of February 2020 through August 2021, carrier filings of available speeds with the FCC (Form 477), carrier reports of actual broadband deployments to USAC (HUBB), RDOF Phase 1 eligibility and E-911/LBRS household locations.[†]

Unserved and underserved ratings are color coded at the census block level:

0-9 Mbps   Red: Less than 10/1 Mbps

10-24 Mbps   Orange: At least 10/1 Mbps and less than 25/3 Mbps

25-49 Mbps   Yellow: At least 25/3 Mbps and less than 50/10 Mbps

50-100 Mbps   Light Green: At leasst 50/10 Mbps and less than 100/20 Mbps

100+ Mbps   Dark Green: Greater than 100/20 Mbps

We conducted analysis of the raw Ookla® data for the months of February 2020 through August 2021, applying the following filters:

Filter

Include desktop, iOS, and Android app results*
Exclude results with GPS precision of greater than 200 meters**
Include only results from fixed broadband providers

iOS and Android results were included only if the device was connected to wi-fi during the speed test.
***To protect consumer privacy, Ookla® limits location precision to +/-100 meters. As a result, a single location may include multiple households and many individual tests.*

Using the Ookla® results we rated each location based on the average of up/down speeds for all tests at that location. We then graded census blocks based on the median up/down speed of all locations within each block. Block-by-block ratings were further refined based on RDOF eligibility, past HUBB deployments, and Form 477 data. For blocks with no Ookla test results, extrapolated ratings were assigned where possible via comparative analysis of population density, Form 477 coverage, HUBB data, and RDOF Phase 1 awards. Areas that could not be assigned an extrapolated rating are shown in white on the map.

[†]*US Census household counts were used instead of LBRS in the following counties: Auglaize, Butler, Carroll, Clermont, Cuyahoga, Delaware, Franklin, Geauga, Hamilton, Harrison, Henry, Highland, Mahoning, Medina, Tuscarawas, Union, and Warren.*