

## **Narrative Number Six**

### **Broadband Availability (Rural County)**

County must have 3 Mbs speeds available to 90 percent of housing units with the exception of those they can show to be inaccessible (cost prohibitive) by technology other than wireless - where there must be 1.5 Mbps speeds available to 90 percent of housing units. Present date to show that these areas are covered by 1.5 Mbps at 90 percent availability.



russell county, kentucky

**FIND**

## Search Results: Broadband Providers for this Area

Below is the list of broadband providers operating in all or part of the census block for the address above. If you entered a zip code or city name, the list below only displays the broadband providers offering service in the Census Block that is in the center of that zip code or city. See About and the FAQ to learn more about the data gathering process.

Help improve this data by confirming the availability and speed information. This dataset is updated approximately every six months and your input is important to us. Click Expand All to see details about each provider and to give us feedback.

Show All • Show Wired • Show Wireless

[Collapse All](#)

### Advertised Speeds Above 3 Mbps

Data as of: 12/31/10

Duo County Telephone Cooperative Inc.

3 - 6 Mbps

tl

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download between 3 - 6 Mbps using DSL (Asymmetric)  
Upload between 200 - 768 Kbps using DSL (Asymmetric)

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Skycasters, LLC

3 - 6 Mbps

tl

- [Data Review](#)
- [Source](#)

Download between 3 - 6 Mbps using Satellite  
Upload between 1.5 - 3 Mbps using Satellite

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

### Advertised Speeds Above 768 Kbps and Below 3 Mbps

Data as of: 12/31/10

Hughes Communications, Inc.

1.5 - 3 Mbps

tl

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download between 1.5 - 3 Mbps using Satellite  
Upload between 200 - 768 Kbps using Satellite

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Skyway

1.5 - 3 Mbps

tl

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 1.5 - 3 Mbps* using Satellite  
Upload *between 200 - 768 Kbps* using Satellite

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

StarBand Communications Inc.  | [i](#)

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 1.5 - 3 Mbps* using Satellite  
Upload *between 200 - 768 Kbps* using Satellite

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

WildBlue Communications, Inc.  | [i](#)

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 1.5 - 3 Mbps* using Satellite  
Upload *between 200 - 768 Kbps* using Satellite

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Cumberland Cellular Partnership  | [i](#)

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 1.5 - 3 Mbps* using Mobile Wireless  
Upload *between 768 Kbps - 1.5 Mbps* using Mobile Wireless

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Sprint Nextel Corporation  | [i](#)

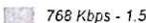
[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 768 Kbps - 1.5 Mbps* using Mobile Wireless  
Upload *between 200 - 768 Kbps* using Mobile Wireless

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Vortex Wireless LLC  | [i](#)

[Link to Website](#)

- [Data Review](#)
- [Source](#)

Download *between 768 Kbps - 1.5 Mbps* using Fixed Wireless (UL)  
Upload *between 768 Kbps - 1.5 Mbps* using Fixed Wireless (UL)

Help us verify that this is the max. advertised speed.  
 Yes  No

Confirm this provider serves here  
 Yes  No

Most Common Speed: 10 Mbps

Data Source • Download • API Call

Broadband services delivered via satellite are available to U.S. customers throughout all 50 States. Please click here for more information on individual Satellite Broadband service providers

Is your broadband provider listed? if not, please enter the provider below

Input field with a SEND button

Top 10 Search Locations

- 10512
new york
90210
24073
san francisco
seattle
los angeles
14300 pearl rd, strongsville, oh 44136
seattle, wa
1320 3rd street, kirkland wa 98033

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results: 1.57 seconds



Russel County Airport



OpenStreetMap

Data © 2009 OpenStreetMap. Rendering © 2009 CloudMade.

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The National Broadband Map is a tool to search, analyze and map broadband availability across the United States. Created and maintained by the NTIA, in collaboration with the FCC, and in partnership with 50 states, five territories and the District of Columbia.



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*Learn more about broadband*

**Engage »**

*Build a better map for my community*

**Blog »**

**The National Broadband Map Gets an Update**  
*posted by Anne Neville on September 21, 2011*

**Updates »**

*Sign up and receive updates about the National  
Broadband Map*



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November 10, 2011

Kentucky Workforce Investment Board

Re: Broadband Requirements  
Work Ready Community  
Broadband Availability Russell County KY

This letter is to document the availability of Broadband Internet in Russell County KY as required for Work Ready Community Certification. The Certification defines Broadband as 4 Mbps or higher bandwidth. The certification further requires that 4 Mbps or higher be available to at least 90% of households in the county. The certification requires that the Broadband availability data come from the National Broadband Map located at [www.broadband.gov](http://www.broadband.gov).

Creating the National Broadband Map was a tremendous undertaking for the National Telecommunications and Information Administration (NTIA). While the overall data is relatively accurate the data for Russell County is in error. Duo County Telephone Cooperative (DCTC) serves all of Russell County and reported their data to the NTIA accurately. DCTC is in the process of working with NTIA through their KY contractor to correct the data on the map.

The National Broadband Map lists Russell County as having 59% of residents with internet access available at 4 Mbps or higher. We assure the reviewers that this is closer to 99% of households. The map data lists 3,854 households as being underserved. This is not the case. Of the census listed 7401 households in Russell county, 3461 47 % are active DCTC broadband subscribers.

In 1995 DCTC began their deployment of Digital Subscriber Line (DSL) technology that allowed their customers to access the internet via broadband replacing the previous dial up circuits. This technology requires multiple electronic locations to support the higher frequencies used for this service. DCTC continued to place additional electronic sites over the next decade so that by 2005 their customers all had access to High-speed broadband. Additionally, DCTC deployed fiber-optic cable to support the data backhaul from these sites to the internet POP. This deployment substantially increased the reliability and throughput for their internet service.

The technology of DSL has improved over the last 10 years so that now DCTC can support up to 18 Mbps to most of their customers. The households' located furthest from electronic sites are still able to achieve 4-8 Mbps. In no case are any of the households in Russell County limited to less than 4 Mbps internet service. DCTC has placed 44 electronic sites over Russell counties' 243 square miles. This equates to one electronic

site covering on average 5.5 square miles and 28 households. DCTC's remote placement is such that on average the furthest household is 1.7 miles from an electronics site. This service platform and system design allows DCTC to serve Broadband to all of Russell County with a minimum available level of 4 Mbps.

The broadband criterion in the Work Ready Certification is seeking an indicator of digital literacy. This literacy takes time to achieve. DCTC has made high speed broadband available to most of Russell County for the past 10 years since 2001. Digital technology has been available to Russell County schools, workplaces and residences long before it was available in most Kentucky communities.

Economic Development relies heavily on infrastructure. Russell County is fortunate to have a progressive local Cooperative serving their communications needs. In addition to Broadband, services such as 100Mbps Ethernet, Voice over IP (VoIP), and redundant, diverse circuits are vitally important to many business owners. DCTC can support any communication needs your potential business may require. In addition DCTC provides a resilient and state of the art video network throughout most of Russell County.

Finley Engineering Company (Finley) has been DCTC's Engineer of Record since 1993. Since that time we have assisted their staff with numerous broadband upgrade designs. Currently, we are assisting DCTC with a six year plan to bring fiber-optic cable to each household to improve internet bandwidth. DCTC has always done an exemplary job of deploying the latest technology for their customers.

Finley Engineering Company has been in business as a consultant to communications providers since 1953. Finley provides consulting services to clients that demand experienced, professional leadership for their business and systems projects. Our consultants have a variety of IT and business backgrounds in accounting, business management, information systems, project management and telecommunications. Our employees average more than 18 years of experience.

We trust that this letter will allow Russell County to attain the Work Ready Certification requirement of Broadband access. If after your review you have any questions we would be happy to discuss this issue with you or the reviewers.

*Ann M. Keller, P.E.*

Ann M. Keller, P.E.  
VP Finley Engineering

Cc: Tom Preston, Duo County TC