

APPENDIX A

NATIONAL DIGITAL INCLUSION ALLIANCE COMMENTS TO FEDERAL COMMUNICATIONS COMMISSION IN GN DOCKET NO. 19-285

MEDIAN HOME BROADBAND SUBSCRIPTION RATES FOR HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AND ABOVE \$74,999
 COMPARISON OF 100% RURAL COUNTIES AND 95%+ URBANIZED COUNTIES
 2013-17 AMERICAN COMMUNITY SURVEY 5-YEAR ESTIMATES, TABLE B28004

	Median percentage of households in income group with no home broadband subscriptions of any type		Households with annual incomes below \$20,000		Households with annual incomes of \$75,000 or more	
	Households with annual incomes below \$20,000	Households with annual incomes of \$75,000 or more	Median % share of all households	Median % share of households without home broadband	Median % share of all households	Median % share of households without home broadband
702 "100% rural" counties*	61%	14%	20%	36%	26%	11%
134 "95%+ urbanized" counties**	44%	6%	16%	35%	40%	13%

* Counties where 100% of residents lived in areas classified by the Census as rural in 2010, the last time this determination was made (Source: 2010 Decennial Census Summary File 1, Table P2: Urban and Rural)

** Counties where at least 95% of residents lived in areas classified by the Census as urbanized in 2010, the last time this determination was made (Source: 2010 Decennial Census Summary File 1, Table P2: Urban and Rural)

Compiled by National Digital Inclusion Alliance, 11/22/19

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HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes below \$20,000 as % of all		No broadband total	Less than \$20,000 as % of all with no broadband		% of cohort with no broadband
Total, 706 counties		2,102,641	461,271	22%	744,840	286,277	38%	62%
Median, 706 counties				20%			36%	61%
McCreary County, Kentucky	100%	6,332	3,307	52%	3,542	2,311	65%	70%
Perry County, Alabama	100%	3,039	1,406	46%	1,829	975	53%	69%
Tensas Parish, Louisiana	100%	1,930	888	46%	1,120	672	60%	76%
Stewart County, Georgia	100%	1,780	779	44%	860	538	63%	69%
Wolfe County, Kentucky	100%	2,853	1,253	44%	1,279	818	64%	65%
Issaquena County, Mississippi	100%	437	156	36%	222	106	48%	68%
Claiborne County, Mississippi	100%	3,187	1,403	44%	1,432	800	56%	57%
Greene County, Alabama	100%	3,025	1,456	48%	1,756	1,015	58%	70%
Wilkinson County, Mississippi	100%	2,882	1,275	44%	1,567	818	52%	64%
Sumter County, Alabama	100%	5,073	2,315	46%	2,514	1,592	63%	69%
Jefferson County, Mississippi	100%	2,453	1,129	46%	1,066	653	61%	58%
Jefferson Davis County, Mississippi	100%	4,798	1,825	38%	2,840	1,273	45%	70%
Clay County, Georgia	100%	1,154	498	43%	524	326	62%	65%
Terrell County, Texas	100%	343	130	38%	197	114	58%	88%
Hudspeth County, Texas	100%	890	330	37%	501	269	54%	82%
Lee County, Kentucky	100%	2,843	1,218	43%	1,417	891	63%	73%
Kenedy County, Texas	100%	152	53	35%	97	49	51%	92%
Owsley County, Kentucky	100%	1,696	814	48%	668	505	76%	62%
Kemper County, Mississippi	100%	3,695	1,309	35%	2,271	1,144	50%	87%
Mora County, New Mexico	100%	1,513	580	38%	827	448	54%	77%
Todd County, South Dakota	100%	2,768	1,168	42%	1,468	855	58%	73%
Leslie County, Kentucky	100%	4,292	1,727	40%	1,757	1,074	61%	62%
Elliott County, Kentucky	100%	2,635	989	38%	1,088	615	57%	62%
Wheeler County, Georgia	100%	1,972	726	37%	1,489	632	42%	87%
Sharkey County, Mississippi	100%	1,809	560	31%	719	359	50%	64%
Twiggs County, Georgia	100%	2,943	997	34%	1,516	688	45%	69%
Magoffin County, Kentucky	100%	5,057	1,879	37%	1,754	1,062	61%	57%
Hancock County, Tennessee	100%	2,704	836	31%	1,626	660	41%	79%
Amite County, Mississippi	100%	4,994	1,745	35%	2,446	1,200	49%	69%
Costilla County, Colorado	100%	1,568	547	35%	747	351	47%	64%

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Geography	% rural	Total households:	Households with incomes below \$20,000 as % of all		No broadband total	Less than \$20,000 as % of all with no broadband		% of cohort with no broadband
Walthall County, Mississippi	100%	5,903	2,194	37%	3,225	1,550	48%	71%
Calhoun County, Georgia	100%	1,865	664	36%	733	405	55%	61%
Taliaferro County, Georgia	100%	710	242	34%	459	212	46%	88%
Dickenson County, Virginia	100%	6,096	2,076	34%	2,679	1,276	48%	61%
Mellette County, South Dakota	100%	683	238	35%	405	195	48%	82%
Letcher County, Kentucky	100%	10,065	3,547	35%	3,588	1,983	55%	56%
Wilcox County, Alabama	100%	3,841	1,517	39%	2,242	1,130	50%	74%
Hall County, Texas	100%	1,244	360	29%	541	236	44%	66%
Woodruff County, Arkansas	100%	2,874	1,087	38%	1,413	848	60%	78%
Atkinson County, Georgia	100%	2,835	759	27%	1,392	551	40%	73%
Ozark County, Missouri	100%	4,075	1,201	29%	1,816	721	40%	60%
Buchanan County, Virginia	100%	9,022	3,106	34%	3,853	1,729	45%	56%
Clinton County, Kentucky	100%	4,025	1,239	31%	1,826	815	45%	66%
Taylor County, Georgia	100%	3,554	1,122	32%	1,604	746	47%	66%
Buffalo County, South Dakota	100%	530	181	34%	263	126	48%	70%
Shannon County, Missouri	100%	3,158	992	31%	1,598	698	44%	70%
Clark County, Idaho	100%	313	52	17%	151	30	20%	58%
Lowndes County, Alabama	100%	4,309	1,523	35%	2,278	1,075	47%	71%
Warren County, Georgia	100%	2,274	790	35%	1,349	668	50%	85%
Jackson County, Kentucky	100%	5,435	1,792	33%	2,282	1,160	51%	65%
Clay County, Tennessee	100%	3,171	1,113	35%	1,560	800	51%	72%
Knott County, Kentucky	100%	6,158	2,225	36%	2,391	1,323	55%	59%
Perry County, Tennessee	100%	3,295	1,018	31%	1,580	712	45%	70%
Robertson County, Kentucky	100%	938	287	31%	556	203	37%	71%
Choctaw County, Alabama	100%	5,463	1,673	31%	2,605	1,115	43%	67%
Martin County, Kentucky	100%	4,316	1,546	36%	1,532	767	50%	50%
Lewis County, Kentucky	100%	5,496	1,860	34%	2,217	1,136	51%	61%
Caldwell Parish, Louisiana	100%	3,680	1,327	36%	1,544	863	56%	65%
Tyrrell County, North Carolina	100%	1,539	511	33%	686	398	58%	78%
Lafayette County, Arkansas	100%	2,860	893	31%	1,421	671	47%	75%
Sabine County, Texas	100%	3,811	908	24%	1,217	511	42%	56%
Lake County, Michigan	100%	4,555	1,442	32%	1,969	858	44%	60%
Grundy County, Tennessee	100%	4,894	1,603	33%	1,994	1,044	52%	65%

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Fentress County, Tennessee	100%	7,385	2,206	30%	2,765	1,301	47%	59%
Casey County, Kentucky	100%	6,398	2,090	33%	2,384	1,087	46%	52%
Cottle County, Texas	100%	664	201	30%	272	152	56%	76%
Corson County, South Dakota	100%	1,239	464	37%	588	359	61%	77%
Calhoun County, Mississippi	100%	5,853	1,871	32%	2,737	1,186	43%	63%
De Baca County, New Mexico	100%	666	175	26%	234	107	46%	61%
San Augustine County, Texas	100%	3,202	1,003	31%	1,412	699	50%	70%
Lake County, Tennessee	100%	2,164	781	36%	860	461	54%	59%
Hidalgo County, New Mexico	100%	1,761	521	30%	685	315	46%	60%
Culberson County, Texas	100%	735	250	34%	373	192	51%	77%
Stone County, Arkansas	100%	4,910	1,615	33%	2,440	1,097	45%	68%
Wheeler County, Oregon	100%	677	204	30%	201	93	46%	46%
Echols County, Georgia	100%	1,502	470	31%	785	396	50%	84%
Jackson County, Tennessee	100%	4,566	1,494	33%	1,835	907	49%	61%
Morgan County, Kentucky	100%	4,937	1,513	31%	1,653	883	53%	58%
Dooly County, Georgia	100%	5,171	1,609	31%	2,396	1,204	50%	75%
Webster County, West Virginia	100%	3,690	1,275	35%	1,313	683	52%	54%
Van Buren County, Arkansas	100%	6,867	1,829	27%	2,867	1,092	38%	60%
Ripley County, Missouri	100%	5,397	1,616	30%	1,927	893	46%	55%
Clay County, West Virginia	100%	3,365	1,081	32%	1,146	618	54%	57%
Choctaw County, Mississippi	100%	3,198	1,021	32%	1,548	692	45%	68%
Wayne County, Tennessee	100%	5,860	1,678	29%	2,439	1,156	47%	69%
Russell County, Kentucky	100%	7,204	2,239	31%	2,868	1,540	54%	69%
Coosa County, Alabama	100%	4,204	1,075	26%	1,758	805	46%	75%
Pulaski County, Illinois	100%	2,246	668	30%	1,080	465	43%	70%
Morgan County, Missouri	100%	7,774	2,234	29%	3,247	1,471	45%	66%
Catahoula Parish, Louisiana	100%	3,747	1,172	31%	1,724	827	48%	71%
Hickory County, Missouri	100%	3,983	1,146	29%	1,465	670	46%	58%
Saguache County, Colorado	100%	2,626	736	28%	862	382	44%	52%
St. Clair County, Missouri	100%	4,135	1,163	28%	1,655	722	44%	62%
Harding County, New Mexico	100%	203	55	27%	107	45	42%	82%
Wayne County, Missouri	100%	5,482	1,582	29%	2,099	823	39%	52%
Crowley County, Colorado	100%	1,215	301	25%	293	105	36%	35%

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Montgomery County, Arkansas	100%	3,855	972	25%	1,673	646	39%	66%
St. Helena Parish, Louisiana	100%	3,990	1,177	29%	2,041	973	48%	83%
Perry County, Mississippi	100%	4,476	1,278	29%	1,858	846	46%	66%
Jasper County, Mississippi	100%	6,817	1,836	27%	3,715	1,481	40%	81%
Webster County, Mississippi	100%	3,842	1,151	30%	1,575	710	45%	62%
Pushmataha County, Oklahoma	100%	4,550	1,213	27%	1,829	752	41%	62%
Wilcox County, Georgia	100%	2,676	803	30%	1,340	516	39%	64%
Monroe County, Kentucky	100%	4,376	1,402	32%	1,726	933	54%	67%
Swain County, North Carolina	100%	5,464	1,425	26%	3,010	1,059	35%	74%
Metcalfe County, Kentucky	100%	3,940	1,157	29%	1,197	659	55%	57%
Blaine County, Montana	100%	2,314	633	27%	841	420	50%	66%
Calhoun County, West Virginia	100%	2,808	732	26%	998	429	43%	59%
Warren County, North Carolina	100%	8,157	2,454	30%	3,768	1,684	45%	69%
Conejos County, Colorado	100%	2,992	835	28%	1,148	593	52%	71%
Rolette County, North Dakota	100%	4,740	1,477	31%	1,693	841	50%	57%
Trinity County, California	100%	5,462	1,471	27%	1,966	904	46%	61%
Decatur County, Tennessee	100%	4,721	1,433	30%	1,682	785	47%	55%
Graham County, North Carolina	100%	3,303	856	26%	1,684	661	39%	77%
Jefferson County, Oklahoma	100%	2,392	673	28%	1,079	451	42%	67%
Cumberland County, Kentucky	100%	2,709	898	33%	1,074	526	49%	59%
Custer County, Idaho	100%	1,850	490	26%	467	239	51%	49%
Lamar County, Alabama	100%	6,019	1,689	28%	2,509	1,147	46%	68%
Pickens County, Alabama	100%	7,620	2,456	32%	2,977	1,421	48%	58%
Ontonagon County, Michigan	100%	2,945	701	24%	1,250	517	41%	74%
Woodson County, Kansas	100%	1,523	416	27%	616	278	45%	67%
Menard County, Texas	100%	964	238	25%	424	170	40%	71%
Sanders County, Montana	100%	4,994	1,296	26%	1,737	774	45%	60%
Lincoln County, West Virginia	100%	8,046	2,156	27%	2,492	1,037	42%	48%
Baca County, Colorado	100%	1,603	397	25%	497	208	42%	52%
Clay County, Alabama	100%	5,338	1,309	25%	1,816	697	38%	53%
Marion County, Arkansas	100%	6,663	1,790	27%	1,995	1,012	51%	57%
Pocahontas County, West Virginia	100%	3,647	863	24%	1,190	534	45%	62%
Jones County, North Carolina	100%	4,148	1,253	30%	1,845	888	48%	71%

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Baylor County, Texas	100%	1,644	420	26%	495	265	54%	63%
Real County, Texas	100%	1,123	280	25%	454	159	35%	57%
Miller County, Georgia	100%	2,326	682	29%	1,287	553	43%	81%
Lincoln County, Georgia	100%	3,438	840	24%	1,593	569	36%	68%
Oscoda County, Michigan	100%	3,728	971	26%	1,552	570	37%	59%
Green County, Kentucky	100%	4,467	1,192	27%	1,711	798	47%	67%
Covington County, Mississippi	100%	6,919	1,772	26%	3,305	1,312	40%	74%
Lincoln County, Arkansas	100%	3,928	984	25%	1,723	701	41%	71%
Putnam County, Missouri	100%	1,956	463	24%	724	314	43%	68%
Hampshire County, West Virginia	100%	9,676	2,280	24%	4,422	1,729	39%	76%
Pike County, Arkansas	100%	4,313	1,062	25%	1,815	692	38%	65%
Searcy County, Arkansas	100%	3,336	972	29%	1,583	636	40%	65%
West Carroll Parish, Louisiana	100%	4,182	1,109	27%	2,350	882	38%	80%
Calhoun County, Arkansas	100%	2,061	544	26%	963	421	44%	77%
Tishomingo County, Mississippi	100%	7,606	1,872	25%	3,103	1,247	40%	67%
Atoka County, Oklahoma	100%	5,284	1,353	26%	1,893	718	38%	53%
Smith County, Mississippi	100%	5,850	1,567	27%	3,324	1,188	36%	76%
Camas County, Idaho	100%	370	97	26%	123	41	33%	42%
Newton County, Arkansas	100%	3,152	910	29%	1,429	662	46%	73%
Greene County, North Carolina	100%	7,348	1,926	26%	2,284	1,067	47%	55%
Webster County, Georgia	100%	1,091	268	25%	563	150	27%	56%
Cleburne County, Alabama	100%	5,773	1,586	27%	2,436	1,052	43%	66%
Edwards County, Texas	100%	634	169	27%	356	151	42%	89%
Clarke County, Mississippi	100%	6,365	1,616	25%	3,113	1,181	38%	73%
Forest County, Pennsylvania	100%	1,473	295	20%	589	187	32%	63%
Coal County, Oklahoma	100%	2,240	637	28%	891	449	50%	70%
Harmon County, Oklahoma	100%	1,185	293	25%	352	143	41%	49%
Menominee County, Wisconsin	100%	1,354	376	28%	475	223	47%	59%
Patrick County, Virginia	100%	7,713	2,109	27%	2,969	1,395	47%	66%
Liberty County, Florida	100%	2,325	526	23%	946	329	35%	63%
Todd County, Kentucky	100%	4,610	1,183	26%	2,173	884	41%	75%
Hardin County, Illinois	100%	1,452	384	26%	536	237	44%	62%
Niobrara County, Wyoming	100%	982	233	24%	316	115	36%	49%

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Yancey County, North Carolina	100%	7,493	2,022	27%	3,068	1,329	43%	66%
Izard County, Arkansas	100%	5,189	1,225	24%	2,201	819	37%	67%
Jackson County, South Dakota	100%	984	276	28%	484	193	40%	70%
Cochran County, Texas	100%	1,000	320	32%	437	194	44%	61%
Marion County, Texas	100%	4,457	1,199	27%	1,975	895	45%	75%
Yukon-Koyukuk Census Area, Alaska	100%	1,959	584	30%	1,103	489	44%	84%
Red River Parish, Louisiana	100%	3,374	1,016	30%	1,351	678	50%	67%
Lawrence County, Mississippi	100%	4,822	1,331	28%	2,671	1,007	38%	76%
Musselshell County, Montana	100%	2,073	531	26%	541	245	45%	46%
Cherokee County, North Carolina	100%	11,206	2,603	23%	3,858	1,614	42%	62%
Webster County, Kentucky	100%	5,095	1,302	26%	2,084	754	36%	58%
Crenshaw County, Alabama	100%	5,358	1,462	27%	2,298	1,058	46%	72%
Mineral County, Montana	100%	1,694	446	26%	613	261	43%	59%
Menifee County, Kentucky	100%	2,537	638	25%	922	443	48%	69%
Jones County, South Dakota	100%	405	83	20%	112	47	42%	57%
Johnston County, Oklahoma	100%	4,256	1,082	25%	1,781	695	39%	64%
Braxton County, West Virginia	100%	5,498	1,389	25%	2,221	772	35%	56%
Clay County, North Carolina	100%	5,049	1,167	23%	1,328	578	44%	50%
Esmeralda County, Nevada	100%	494	100	20%	209	58	28%	58%
Ogemaw County, Michigan	100%	9,325	2,113	23%	3,200	1,186	37%	56%
Throckmorton County, Texas	100%	712	199	28%	288	122	42%	61%
Piscataquis County, Maine	100%	7,477	1,758	24%	2,637	1,043	40%	59%
Dolores County, Colorado	100%	707	135	19%	256	76	30%	56%
Crawford County, Indiana	100%	4,007	960	24%	1,774	667	38%	69%
Benton County, Mississippi	100%	2,960	866	29%	1,403	517	37%	60%
Bath County, Kentucky	100%	4,509	1,182	26%	1,521	713	47%	60%
Hickman County, Kentucky	100%	1,877	483	26%	854	243	28%	50%
Wilkinson County, Georgia	100%	3,288	891	27%	1,471	560	38%	63%
Schuyler County, Missouri	100%	1,669	436	26%	723	324	45%	74%
Essex County, Vermont	100%	2,720	673	25%	883	377	43%	56%
Hardeman County, Texas	100%	1,533	433	28%	547	309	56%	71%
Alleghany County, North Carolina	100%	4,742	1,177	25%	1,491	760	51%	65%
Wheatland County, Montana	100%	820	213	26%	293	148	51%	69%

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Motley County, Texas	100%	469	104	22%	146	62	42%	60%
Marion County, Georgia	100%	3,263	830	25%	1,552	563	36%	68%
Lafayette County, Florida	100%	2,193	588	27%	723	383	53%	65%
Charlotte County, Virginia	100%	4,493	1,205	27%	2,251	938	42%	78%
Bracken County, Kentucky	100%	3,427	935	27%	1,274	585	46%	63%
Decatur County, Iowa	100%	3,172	765	24%	1,145	490	43%	64%
Crosby County, Texas	100%	2,064	505	24%	816	307	38%	61%
Pendleton County, West Virginia	100%	3,032	747	25%	1,336	503	38%	67%
Meigs County, Tennessee	100%	4,818	1,058	22%	2,038	718	35%	68%
Butler County, Kentucky	100%	5,060	1,199	24%	1,905	773	41%	64%
Chouteau County, Montana	100%	2,290	469	20%	744	249	33%	53%
Dade County, Missouri	100%	3,107	679	22%	1,154	362	31%	53%
Nicholas County, Kentucky	100%	2,760	655	24%	1,141	424	37%	65%
Sioux County, North Dakota	100%	1,114	331	30%	510	222	44%	67%
Hickman County, Tennessee	100%	8,930	2,164	24%	4,136	1,597	39%	74%
Chautauqua County, Kansas	100%	1,432	301	21%	514	183	36%	61%
Newton County, Texas	100%	4,781	1,156	24%	2,173	786	36%	68%
Union County, New Mexico	100%	1,424	313	22%	640	218	34%	70%
Washington County, Alabama	100%	6,001	1,513	25%	2,791	1,050	38%	69%
Pope County, Illinois	100%	1,639	319	19%	718	244	34%	76%
Hitchcock County, Nebraska	100%	1,273	252	20%	471	152	32%	60%
Arthur County, Nebraska	100%	177	52	29%	54	27	50%	52%
Baker County, Georgia	100%	1,321	322	24%	731	245	34%	76%
Prairie County, Arkansas	100%	3,920	933	24%	2,008	758	38%	81%
Grainger County, Tennessee	100%	9,112	1,839	20%	2,991	1,218	41%	66%
Montmorency County, Michigan	100%	4,074	838	21%	1,393	467	34%	56%
Union County, Tennessee	100%	7,268	1,575	22%	3,029	973	32%	62%
Phillips County, Montana	100%	1,791	472	26%	584	257	44%	54%
Bledsoe County, Tennessee	100%	4,664	1,057	23%	1,933	703	36%	67%
Reynolds County, Missouri	100%	2,628	609	23%	968	364	38%	60%
Carlisle County, Kentucky	100%	1,988	443	22%	659	260	39%	59%
Franklin County, Mississippi	100%	3,097	724	23%	1,013	413	41%	57%
Lunenburg County, Virginia	100%	4,480	995	22%	2,109	795	38%	80%

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 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes below \$20,000 as % of all		No broadband total	Less than \$20,000 as % of all with no broadband		% of cohort with no broadband
Carter County, Missouri	100%	2,403	634	26%	964	443	46%	70%
Knox County, Missouri	100%	1,602	387	24%	648	239	37%	62%
Elk County, Kansas	100%	1,158	281	24%	413	141	34%	50%
Lewis County, Idaho	100%	1,626	347	21%	601	228	38%	66%
Delta County, Texas	100%	2,035	418	21%	718	230	32%	55%
Potter County, Pennsylvania	100%	6,536	1,465	22%	1,968	727	37%	50%
Vinton County, Ohio	100%	5,053	1,290	26%	2,244	861	38%	67%
Schley County, Georgia	100%	1,925	515	27%	584	237	41%	46%
Stonewall County, Texas	100%	458	135	29%	177	80	45%	59%
Crawford County, Georgia	100%	4,715	1,096	23%	1,662	740	45%	68%
Rush County, Kansas	100%	1,432	265	19%	450	147	33%	55%
Keweenaw County, Michigan	100%	1,013	228	23%	390	145	37%	64%
Ferry County, Washington	100%	3,056	777	25%	1,197	461	39%	59%
McPherson County, South Dakota	100%	1,019	239	23%	431	158	37%	66%
Osceola County, Michigan	100%	9,010	1,928	21%	3,734	1,193	32%	62%
Ritchie County, West Virginia	100%	3,825	905	24%	1,299	549	42%	61%
Gregory County, South Dakota	100%	1,943	442	23%	701	288	41%	65%
Towns County, Georgia	100%	4,588	983	21%	1,377	531	39%	54%
Coke County, Texas	100%	1,574	405	26%	539	215	40%	53%
Arenac County, Michigan	100%	6,663	1,477	22%	2,548	867	34%	59%
Bollinger County, Missouri	100%	4,805	1,187	25%	1,846	645	35%	54%
Maries County, Missouri	100%	3,667	775	21%	1,557	558	36%	72%
Wirt County, West Virginia	100%	2,427	588	24%	843	351	42%	60%
Van Buren County, Tennessee	100%	2,156	415	19%	739	276	37%	67%
Edmonson County, Kentucky	100%	4,880	1,153	24%	1,371	607	44%	53%
San Jacinto County, Texas	100%	9,414	1,963	21%	2,924	1,043	36%	53%
Sherman County, Oregon	100%	779	159	20%	188	79	42%	50%
Butte County, Idaho	100%	1,049	208	20%	285	72	25%	35%
Mahnomen County, Minnesota	100%	1,947	456	23%	754	285	38%	63%
McCormick County, South Carolina	100%	4,077	960	24%	1,401	625	45%	65%
Gallatin County, Illinois	100%	2,272	498	22%	819	289	35%	58%
Day County, South Dakota	100%	2,567	578	23%	1,003	359	36%	62%
Haakon County, South Dakota	100%	893	169	19%	366	140	38%	83%

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Osborne County, Kansas	100%	1,713	393	23%	497	210	42%	53%
Owen County, Kentucky	100%	3,944	864	22%	1,743	654	38%	76%
Jewell County, Kansas	100%	1,388	340	24%	478	191	40%	56%
Briscoe County, Texas	100%	664	147	22%	209	100	48%	68%
Tucker County, West Virginia	100%	2,951	635	22%	870	298	34%	47%
Accomack County, Virginia	100%	13,528	2,916	22%	5,152	2,081	40%	71%
Graham County, Kansas	100%	1,239	271	22%	315	114	36%	42%
Pickett County, Tennessee	100%	2,180	523	24%	765	382	50%	73%
Chariton County, Missouri	100%	2,842	632	22%	1,014	437	43%	69%
Switzerland County, Indiana	100%	4,259	879	21%	1,565	600	38%	68%
Grant County, Nebraska	100%	274	65	24%	78	33	42%	51%
Sioux County, Nebraska	100%	579	100	17%	196	60	31%	60%
Lincoln County, Colorado	100%	1,477	281	19%	373	116	31%	41%
Fannin County, Georgia	100%	10,175	2,350	23%	2,580	1,071	42%	46%
Benson County, North Dakota	100%	2,292	572	25%	1,035	449	43%	78%
Perquimans County, North Carolina	100%	5,882	1,306	22%	1,928	821	43%	63%
Madison County, Arkansas	100%	6,190	1,365	22%	2,559	911	36%	67%
Nuckolls County, Nebraska	100%	1,985	372	19%	587	220	37%	59%
Baraga County, Michigan	100%	3,009	660	22%	931	314	34%	48%
Chase County, Kansas	100%	1,095	228	21%	345	128	37%	56%
Trousdale County, Tennessee	100%	2,944	568	19%	1,233	392	32%	69%
Heard County, Georgia	100%	4,379	986	23%	1,754	598	34%	61%
Dickens County, Texas	100%	832	235	28%	239	124	52%	53%
Meagher County, Montana	100%	777	156	20%	278	111	40%	71%
Shelby County, Missouri	100%	2,446	558	23%	746	333	45%	60%
Sullivan County, Missouri	100%	2,283	502	22%	851	314	37%	63%
Linn County, Kansas	100%	4,433	1,004	23%	1,990	633	32%	63%
Vilas County, Wisconsin	100%	10,758	2,206	21%	3,356	1,227	37%	56%
Sedgwick County, Colorado	100%	998	261	26%	356	138	39%	53%
Collingsworth County, Texas	100%	1,099	146	13%	378	88	23%	60%
Gilliam County, Oregon	100%	805	122	15%	265	80	30%	66%
Northampton County, Virginia	100%	5,177	1,358	26%	1,975	1,037	53%	76%
Mills County, Texas	100%	1,833	452	25%	539	203	38%	45%

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Atchison County, Missouri	100%	2,492	448	18%	759	241	32%	54%
Sussex County, Virginia	100%	3,388	735	22%	1,366	523	38%	71%
Republic County, Kansas	100%	2,307	482	21%	847	302	36%	63%
Jefferson County, Florida	100%	5,702	1,200	21%	1,892	759	40%	63%
Wallowa County, Oregon	100%	3,126	660	21%	865	332	38%	50%
Scotland County, Missouri	100%	1,870	370	20%	575	207	36%	56%
Decatur County, Kansas	100%	1,439	364	25%	387	187	48%	51%
Emmons County, North Dakota	100%	1,565	361	23%	696	261	38%	72%
Brown County, Nebraska	100%	1,475	378	26%	475	196	41%	52%
Custer County, Colorado	100%	2,093	425	20%	497	197	40%	46%
Breckinridge County, Kentucky	100%	7,467	1,587	21%	2,654	938	35%	59%
Polk County, Tennessee	100%	7,023	1,509	21%	2,494	1,002	40%	66%
Kimball County, Nebraska	100%	1,546	286	18%	457	151	33%	53%
Union County, Georgia	100%	8,788	1,766	20%	2,574	929	36%	53%
Houston County, Tennessee	100%	2,999	658	22%	1,127	419	37%	64%
Thurston County, Nebraska	100%	2,142	515	24%	879	359	41%	70%
Golden Valley County, North Dakota	100%	863	181	21%	299	99	33%	55%
Dundy County, Nebraska	100%	875	133	15%	237	68	29%	51%
Judith Basin County, Montana	100%	925	175	19%	270	98	36%	56%
Clark County, Missouri	100%	2,907	547	19%	969	335	35%	61%
Charles Mix County, South Dakota	100%	3,184	760	24%	1,327	553	42%	73%
Sheridan County, Nebraska	100%	2,306	443	19%	815	311	38%	70%
Foard County, Texas	100%	562	99	18%	179	70	39%	71%
Mercer County, Missouri	100%	1,390	281	20%	495	158	32%	56%
Concho County, Texas	100%	791	176	22%	239	110	46%	63%
Webster County, Nebraska	100%	1,499	309	21%	467	157	34%	51%
Nance County, Nebraska	100%	1,553	335	22%	451	199	44%	59%
Johnson County, Illinois	100%	4,486	998	22%	1,763	648	37%	65%
Oneida County, Idaho	100%	1,581	200	13%	334	100	30%	50%
Catron County, New Mexico	100%	1,433	236	16%	643	132	21%	56%
Forest County, Wisconsin	100%	4,040	843	21%	1,512	511	34%	61%
Morgan County, West Virginia	100%	7,118	1,046	15%	1,948	563	29%	54%
Monroe County, Missouri	100%	3,615	621	17%	1,329	360	27%	58%

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Grant County, Oregon	100%	3,176	619	19%	854	327	38%	53%
Pawnee County, Nebraska	100%	1,238	281	23%	427	188	44%	67%
Stanton County, Kansas	100%	798	160	20%	292	84	29%	53%
Daviess County, Missouri	100%	3,083	584	19%	991	335	34%	57%
Wayne County, Iowa	100%	2,631	502	19%	903	327	36%	65%
Carroll County, Mississippi	100%	3,592	885	25%	1,513	690	46%	78%
Lane County, Kansas	100%	828	154	19%	203	90	44%	58%
Leon County, Texas	100%	6,245	1,109	18%	1,690	428	25%	39%
Gentry County, Missouri	100%	2,662	593	22%	733	306	42%	52%
Sullivan County, Pennsylvania	100%	2,648	493	19%	852	313	37%	63%
Morton County, Kansas	100%	1,115	192	17%	339	136	40%	71%
Cimarron County, Oklahoma	100%	990	185	19%	369	123	33%	66%
Clark County, South Dakota	100%	1,510	227	15%	571	164	29%	72%
Missaukee County, Michigan	100%	5,941	1,153	19%	1,891	648	34%	56%
Holt County, Missouri	100%	2,111	388	18%	675	221	33%	57%
Carter County, Montana	100%	565	93	16%	167	47	28%	51%
Ballard County, Kentucky	100%	3,225	661	20%	966	411	43%	62%
Adams County, Idaho	100%	1,736	347	20%	588	197	34%	57%
Wibaux County, Montana	100%	497	77	15%	230	66	29%	86%
Pamlico County, North Carolina	100%	5,395	1,054	20%	1,711	674	39%	64%
Harlan County, Nebraska	100%	1,590	311	20%	416	146	35%	47%
Calhoun County, South Carolina	100%	6,150	1,498	24%	2,331	1,032	44%	69%
East Feliciana Parish, Louisiana	100%	6,817	1,482	22%	2,985	1,032	35%	70%
Buckingham County, Virginia	100%	5,705	1,257	22%	2,422	856	35%	68%
Cleveland County, Arkansas	100%	3,292	659	20%	1,551	451	29%	68%
Petroleum County, Montana	100%	206	27	13%	54	9	17%	33%
Caldwell County, Missouri	100%	3,741	748	20%	1,229	449	37%	60%
McLean County, Kentucky	100%	3,826	867	23%	1,244	420	34%	48%
Aitkin County, Minnesota	100%	7,709	1,472	19%	2,584	888	34%	60%
Union County, Indiana	100%	2,860	441	15%	1,032	263	25%	60%
Clearwater County, Minnesota	100%	3,428	750	22%	1,081	413	38%	55%
Washington County, Kentucky	100%	4,507	907	20%	1,663	658	40%	73%
Smith County, Kansas	100%	1,662	357	21%	445	194	44%	54%

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Kiowa County, Colorado	100%	576	110	19%	132	50	38%	45%
Wahkiakum County, Washington	100%	1,823	350	19%	418	95	23%	27%
Furnas County, Nebraska	100%	2,172	415	19%	638	258	40%	62%
Adams County, Wisconsin	100%	8,163	1,482	18%	2,545	792	31%	53%
Richmond County, Virginia	100%	3,250	783	24%	1,237	463	37%	59%
Lewis County, Missouri	100%	3,754	748	20%	1,157	467	40%	62%
Roger Mills County, Oklahoma	100%	1,350	292	22%	516	165	32%	57%
Glascocock County, Georgia	100%	1,083	240	22%	413	137	33%	57%
Ellis County, Oklahoma	100%	1,625	355	22%	630	213	34%	60%
Madison County, Montana	100%	3,487	497	14%	1,141	325	28%	65%
Wallace County, Kansas	100%	594	132	22%	169	66	39%	50%
Greene County, Mississippi	100%	4,174	971	23%	1,583	512	32%	53%
Garfield County, Washington	100%	1,007	175	17%	280	105	38%	60%
Treasure County, Montana	100%	365	56	15%	130	29	22%	52%
Lake and Peninsula Borough, Alaska	100%	408	74	18%	162	38	23%	51%
Rooks County, Kansas	100%	2,144	397	19%	575	224	39%	56%
Knox County, Texas	100%	1,376	262	19%	456	146	32%	56%
Bennett County, South Dakota	100%	955	197	21%	359	139	39%	71%
Keokuk County, Iowa	100%	4,471	772	17%	1,380	401	29%	52%
Pocahontas County, Iowa	100%	3,191	634	20%	835	253	30%	40%
Doddridge County, West Virginia	100%	2,662	507	19%	1,002	313	31%	62%
Valley County, Nebraska	100%	1,934	390	20%	666	254	38%	65%
Burnett County, Wisconsin	100%	7,284	1,437	20%	2,178	765	35%	53%
Piute County, Utah	100%	516	110	21%	155	62	40%	56%
Perry County, Arkansas	100%	3,692	555	15%	1,403	372	27%	67%
Boyd County, Nebraska	100%	905	177	20%	315	116	37%	66%
Audubon County, Iowa	100%	2,679	435	16%	862	247	29%	57%
Fisher County, Texas	100%	1,696	308	18%	586	194	33%	63%
Mason County, Texas	100%	1,622	310	19%	677	179	26%	58%
Taylor County, Iowa	100%	2,694	470	17%	819	263	32%	56%
Grant County, North Dakota	100%	1,110	239	22%	360	145	40%	61%
Cheyenne County, Kansas	100%	1,248	243	19%	343	115	34%	47%
Stewart County, Tennessee	100%	5,315	1,015	19%	2,115	667	32%	66%

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Lyon County, Kentucky	100%	3,376	621	18%	1,163	453	39%	73%
Lincoln County, Nevada	100%	1,930	295	15%	496	174	35%	59%
McIntosh County, North Dakota	100%	1,325	254	19%	498	161	32%	63%
Hyde County, North Carolina	100%	1,835	354	19%	963	261	27%	74%
Sherman County, Nebraska	100%	1,378	214	16%	430	113	26%	53%
Logan County, Kansas	100%	1,168	180	15%	279	95	34%	53%
Price County, Wisconsin	100%	6,567	1,171	18%	1,967	620	32%	53%
Perkins County, South Dakota	100%	1,311	214	16%	365	106	29%	50%
Faulk County, South Dakota	100%	944	143	15%	354	120	34%	84%
Calhoun County, Iowa	100%	4,229	843	20%	1,241	460	37%	55%
Knox County, Nebraska	100%	3,662	656	18%	1,243	435	35%	66%
Pendleton County, Kentucky	100%	5,236	965	18%	1,894	587	31%	61%
Live Oak County, Texas	100%	3,586	636	18%	1,613	425	26%	67%
Garden County, Nebraska	100%	897	173	19%	286	108	38%	62%
Florence County, Wisconsin	100%	1,979	368	19%	631	245	39%	67%
Big Stone County, Minnesota	100%	2,264	440	19%	690	267	39%	61%
Big Horn County, Wyoming	100%	4,481	905	20%	1,254	501	40%	55%
Harper County, Oklahoma	100%	1,348	280	21%	494	179	36%	64%
Morrill County, Nebraska	100%	2,017	300	15%	598	163	27%	54%
Wayne County, Utah	100%	990	199	20%	250	110	44%	55%
Antelope County, Nebraska	100%	2,748	529	19%	817	335	41%	63%
Hayes County, Nebraska	100%	423	72	17%	112	39	35%	54%
Rosebud County, Montana	100%	3,205	624	19%	1,394	491	35%	79%
Sweet Grass County, Montana	100%	1,531	275	18%	452	119	26%	43%
Upton County, Texas	100%	1,308	264	20%	655	203	31%	77%
Somervell County, Texas	100%	3,234	671	21%	1,144	433	38%	65%
Liberty County, Montana	100%	859	149	17%	327	94	29%	63%
Cumberland County, Illinois	100%	4,287	733	17%	1,278	407	32%	56%
Golden Valley County, Montana	100%	325	65	20%	97	32	33%	49%
Roberts County, South Dakota	100%	3,756	706	19%	1,347	490	36%	69%
Henry County, Kentucky	100%	6,104	1,176	19%	2,130	765	36%	65%
Van Buren County, Iowa	100%	2,877	465	16%	1,102	278	25%	60%
Jackson County, Colorado	100%	597	97	16%	174	37	21%	38%

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Ringgold County, Iowa	100%	2,063	384	19%	675	225	33%	59%
Gallatin County, Kentucky	100%	3,007	501	17%	1,212	333	27%	66%
Lancaster County, Virginia	100%	5,081	985	19%	1,530	613	40%	62%
Granite County, Montana	100%	1,309	221	17%	341	101	30%	46%
Garfield County, Nebraska	100%	893	209	23%	352	141	40%	67%
Lac qui Parle County, Minnesota	100%	3,171	548	17%	905	331	37%	60%
Scott County, Illinois	100%	2,111	375	18%	583	229	39%	61%
Harper County, Kansas	100%	2,357	474	20%	708	301	43%	64%
Bon Homme County, South Dakota	100%	2,554	443	17%	795	327	41%	74%
Stark County, Illinois	100%	2,330	381	16%	685	202	29%	53%
Lincoln County, Minnesota	100%	2,484	462	19%	790	281	36%	61%
Craig County, Virginia	100%	2,344	508	22%	931	379	41%	75%
Daniels County, Montana	100%	876	116	13%	241	60	25%	52%
Lincoln County, Idaho	100%	1,609	235	15%	577	154	27%	66%
Owen County, Indiana	100%	8,551	1,304	15%	3,078	862	28%	66%
Bayfield County, Wisconsin	100%	6,859	1,169	17%	1,641	553	34%	47%
Mariposa County, California	100%	7,434	1,471	20%	2,150	805	37%	55%
Rawlins County, Kansas	100%	1,170	181	15%	282	91	32%	50%
Garfield County, Montana	100%	451	76	17%	135	39	29%	51%
Bland County, Virginia	100%	2,561	435	17%	818	254	31%	58%
Divide County, North Dakota	100%	1,053	215	20%	382	111	29%	52%
Prince of Wales-Hyder Census Area, Alaska	100%	2,315	399	17%	742	270	36%	68%
Marquette County, Wisconsin	100%	6,389	1,016	16%	1,848	514	28%	51%
Middlesex County, Virginia	100%	4,522	885	20%	1,603	606	38%	68%
Burt County, Nebraska	100%	2,885	507	18%	1,013	317	31%	63%
Lyman County, South Dakota	100%	1,383	196	14%	451	153	34%	78%
Sheridan County, Montana	100%	1,661	262	16%	399	163	41%	62%
Highland County, Virginia	100%	1,163	193	17%	403	140	35%	73%
Shackelford County, Texas	100%	1,257	280	22%	424	173	41%	62%
Nelson County, North Dakota	100%	1,492	261	17%	487	160	33%	61%
Hutchinson County, South Dakota	100%	2,881	508	18%	957	329	34%	65%
Dewey County, Oklahoma	100%	1,727	290	17%	629	176	28%	61%
Fulton County, Pennsylvania	100%	5,947	1,066	18%	1,954	634	32%	59%

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Geography	% rural	Total households:	Households with incomes below \$20,000 as % of all		No broadband total	Less than \$20,000 as % of all with no broadband		% of cohort with no broadband
Benton County, Indiana	100%	3,397	532	16%	1,024	284	28%	53%
Cass County, Minnesota	100%	12,965	2,161	17%	3,595	1,082	30%	50%
Sheridan County, North Dakota	100%	684	130	19%	254	89	35%	68%
Garfield County, Utah	100%	1,756	262	15%	436	93	21%	35%
Teton County, Montana	100%	2,413	308	13%	670	182	27%	59%
Ness County, Kansas	100%	1,327	227	17%	394	147	37%	65%
Edwards County, Illinois	100%	2,810	509	18%	776	253	33%	50%
Morris County, Kansas	100%	2,325	377	16%	543	162	30%	43%
Campbell County, South Dakota	100%	690	114	17%	216	77	36%	68%
Worth County, Missouri	100%	888	170	19%	281	102	36%	60%
Washington County, Colorado	100%	2,012	324	16%	541	153	28%	47%
Pershing County, Nevada	100%	2,018	423	21%	764	305	40%	72%
Kent County, Texas	100%	275	52	19%	104	31	30%	60%
Skamania County, Washington	100%	4,713	821	17%	1,349	417	31%	51%
Floyd County, Virginia	100%	6,434	1,051	16%	2,139	719	34%	68%
Rich County, Utah	100%	601	47	8%	168	25	15%	53%
Hooker County, Nebraska	100%	316	60	19%	123	39	32%	65%
Eddy County, North Dakota	100%	1,048	208	20%	358	131	37%	63%
Cook County, Minnesota	100%	2,700	457	17%	798	218	27%	48%
Norman County, Minnesota	100%	2,733	482	18%	1,100	340	31%	71%
Goliad County, Texas	100%	2,755	523	19%	1,067	345	32%	66%
Greeley County, Kansas	100%	494	76	15%	113	38	34%	50%
Thayer County, Nebraska	100%	2,337	373	16%	617	168	27%	45%
Adams County, Iowa	100%	1,654	286	17%	528	152	29%	53%
Kiowa County, Kansas	100%	1,004	167	17%	338	130	38%	78%
Davis County, Iowa	100%	3,255	484	15%	1,239	319	26%	66%
Franklin County, Nebraska	100%	1,367	225	16%	413	105	25%	47%
Phillips County, Colorado	100%	1,696	265	16%	380	101	27%	38%
Hand County, South Dakota	100%	1,498	264	18%	463	152	33%	58%
Lincoln County, Maine	100%	15,241	2,515	17%	3,751	1,174	31%	47%
Lamoille County, Vermont	100%	10,401	1,836	18%	2,204	765	35%	42%
Pepin County, Wisconsin	100%	3,005	537	18%	684	241	35%	45%
Miner County, South Dakota	100%	990	162	16%	265	82	31%	51%

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Johnson County, Nebraska	100%	1,869	351	19%	583	229	39%	65%
Griggs County, North Dakota	100%	1,039	135	13%	340	98	29%	73%
Barber County, Kansas	100%	1,967	431	22%	606	209	34%	48%
Adair County, Iowa	100%	3,210	462	14%	949	309	33%	67%
Towner County, North Dakota	100%	1,033	159	15%	325	103	32%	65%
Greeley County, Nebraska	100%	1,015	178	18%	369	122	33%	69%
Bath County, Virginia	100%	1,847	283	15%	720	196	27%	69%
San Juan County, Colorado	100%	255	41	16%	54	25	46%	61%
Lincoln County, Washington	100%	4,416	700	16%	1,086	383	35%	55%
Boise County, Idaho	100%	3,004	479	16%	826	241	29%	50%
Hinsdale County, Colorado	100%	368	51	14%	118	33	28%	65%
Hamilton County, Kansas	100%	864	124	14%	243	66	27%	53%
Bear Lake County, Idaho	100%	2,313	425	18%	542	189	35%	44%
Schleicher County, Texas	100%	1,102	212	19%	405	161	40%	76%
McPherson County, Nebraska	100%	192	45	23%	73	30	41%	67%
Lincoln County, Kansas	100%	1,275	198	16%	378	94	25%	47%
Gove County, Kansas	100%	1,193	171	14%	293	80	27%	47%
Red Lake County, Minnesota	100%	1,718	289	17%	517	160	31%	55%
Stafford County, Kansas	100%	1,804	297	16%	589	202	34%	68%
Benzie County, Michigan	100%	6,911	1,089	16%	1,575	514	33%	47%
Charles City County, Virginia	100%	2,899	543	19%	1,328	430	32%	79%
Deuel County, Nebraska	100%	833	101	12%	255	42	16%	42%
Hyde County, South Dakota	100%	582	103	18%	156	60	38%	58%
Howard County, Nebraska	100%	2,656	397	15%	794	252	32%	63%
Washington County, Kansas	100%	2,339	369	16%	814	256	31%	69%
Cheyenne County, Colorado	100%	776	140	18%	189	73	39%	52%
Potter County, South Dakota	100%	1,025	123	12%	278	73	26%	59%
McCone County, Montana	100%	720	120	17%	243	58	24%	48%
Wells County, North Dakota	100%	1,988	336	17%	550	218	40%	65%
Chase County, Nebraska	100%	1,671	277	17%	411	127	31%	46%
Worth County, Iowa	100%	3,179	532	17%	987	367	37%	69%
Valley County, Idaho	100%	3,532	560	16%	961	340	35%	61%
Gates County, North Carolina	100%	4,439	724	16%	1,614	551	34%	76%

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Keya Paha County, Nebraska	100%	334	38	11%	71	23	32%	61%
Banner County, Nebraska	100%	300	56	19%	62	16	26%	29%
Jeff Davis County, Texas	100%	1,007	197	20%	339	106	31%	54%
Antrim County, Michigan	100%	9,732	1,568	16%	2,669	805	30%	51%
Irion County, Texas	100%	648	100	15%	201	41	20%	41%
Hamilton County, New York	100%	1,095	186	17%	294	76	26%	41%
Powder River County, Montana	100%	764	110	14%	240	85	35%	77%
Calhoun County, Illinois	100%	1,881	346	18%	694	222	32%	64%
Love County, Oklahoma	100%	3,104	479	15%	1,199	276	23%	58%
Nelson County, Virginia	100%	6,523	1,197	18%	2,593	786	30%	66%
Beaver County, Oklahoma	100%	2,103	309	15%	621	169	27%	55%
Pike County, Indiana	100%	5,096	733	14%	1,836	522	28%	71%
Turner County, South Dakota	100%	3,523	583	17%	1,092	350	32%	60%
Glasscock County, Texas	100%	475	64	13%	124	24	19%	38%
Appomattox County, Virginia	100%	5,948	1,085	18%	2,422	750	31%	69%
Traverse County, Minnesota	100%	1,576	252	16%	497	134	27%	53%
Fillmore County, Nebraska	100%	2,443	410	17%	725	260	36%	63%
Ottawa County, Kansas	100%	2,437	318	13%	828	214	26%	67%
Logan County, Nebraska	100%	366	40	11%	123	16	13%	40%
Louisa County, Iowa	100%	4,364	642	15%	1,081	314	29%	49%
Clark County, Kansas	100%	912	121	13%	350	76	22%	63%
Comanche County, Kansas	100%	726	100	14%	197	59	30%	59%
Brule County, South Dakota	100%	2,170	341	16%	681	253	37%	74%
Lake of the Woods County, Minnesota	100%	1,533	253	17%	888	161	18%	64%
Daggett County, Utah	100%	168	16	10%	16	4	25%	25%
Thomas County, Nebraska	100%	293	57	19%	66	27	41%	47%
Sterling County, Texas	100%	462	60	13%	140	26	19%	43%
Wrangell City and Borough, Alaska	100%	1,084	143	13%	277	70	25%	49%
Grant County, Minnesota	100%	2,536	378	15%	747	209	28%	55%
Pierce County, Nebraska	100%	2,985	424	14%	773	213	28%	50%
Moody County, South Dakota	100%	2,664	364	14%	690	223	32%	61%
Wheeler County, Texas	100%	2,287	370	16%	698	210	30%	57%
Buffalo County, Wisconsin	100%	5,723	962	17%	1,476	502	34%	52%

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Newton County, Indiana	100%	5,530	859	16%	1,432	452	32%	53%
Bottineau County, North Dakota	100%	3,096	494	16%	720	275	38%	56%
Boone County, Nebraska	100%	2,277	384	17%	555	200	36%	52%
Northumberland County, Virginia	100%	5,774	952	16%	1,746	632	36%	66%
Eureka County, Nevada	100%	765	196	26%	212	140	66%	71%
Fremont County, Iowa	100%	2,997	483	16%	794	315	40%	65%
West Feliciana Parish, Louisiana	100%	3,947	635	16%	1,346	411	31%	65%
Carbon County, Montana	100%	4,565	700	15%	1,275	357	28%	51%
Ida County, Iowa	100%	3,043	536	18%	817	326	40%	61%
Dixon County, Nebraska	100%	2,307	311	13%	688	210	31%	68%
Sherman County, Texas	100%	1,063	161	15%	273	87	32%	54%
Rio Blanco County, Colorado	100%	2,417	427	18%	667	265	40%	62%
Kittson County, Minnesota	100%	1,891	285	15%	842	203	24%	71%
Madison County, Virginia	100%	5,107	698	14%	1,687	512	30%	73%
Dillingham Census Area, Alaska	100%	1,405	239	17%	391	154	39%	64%
Custer County, South Dakota	100%	3,901	601	15%	1,008	326	32%	54%
Cameron Parish, Louisiana	100%	2,686	425	16%	910	319	35%	75%
Hodgeman County, Kansas	100%	786	78	10%	215	38	18%	49%
Lafayette County, Wisconsin	100%	6,714	993	15%	1,969	553	28%	56%
Kingsbury County, South Dakota	100%	2,327	381	16%	757	258	34%	68%
Hettinger County, North Dakota	100%	1,078	157	15%	334	88	26%	56%
Frontier County, Nebraska	100%	1,113	151	14%	358	97	27%	64%
Surry County, Virginia	100%	2,773	431	16%	1,142	232	20%	54%
LaMoure County, North Dakota	100%	1,811	285	16%	559	153	27%	54%
Lipscomb County, Texas	100%	1,276	178	14%	264	63	24%	35%
Kidder County, North Dakota	100%	1,053	146	14%	367	102	28%	70%
Major County, Oklahoma	100%	3,030	513	17%	1,038	370	36%	72%
Loup County, Nebraska	100%	245	23	9%	80	15	19%	65%
Alfalfa County, Oklahoma	100%	1,978	330	17%	513	153	30%	46%
Murray County, Minnesota	100%	3,713	603	16%	995	301	30%	50%
Sac County, Iowa	100%	4,372	668	15%	1,199	397	33%	59%
Jerauld County, South Dakota	100%	911	124	14%	260	66	25%	53%
Cedar County, Nebraska	100%	3,508	509	15%	896	272	30%	53%

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Prairie County, Montana	100%	549	72	13%	170	46	27%	64%
Marshall County, Illinois	100%	4,900	746	15%	1,358	441	32%	59%
Wichita County, Kansas	100%	890	100	11%	264	60	23%	60%
San Miguel County, Colorado	100%	3,301	450	14%	678	173	26%	38%
Meade County, Kansas	100%	1,674	229	14%	425	129	30%	56%
Spencer County, Indiana	100%	8,101	1,052	13%	2,596	691	27%	66%
Marshall County, South Dakota	100%	1,813	288	16%	491	194	40%	67%
Edwards County, Kansas	100%	1,273	166	13%	468	113	24%	68%
Renville County, Minnesota	100%	6,219	970	16%	2,257	691	31%	71%
Pope County, Minnesota	100%	4,898	687	14%	1,302	383	29%	56%
Hoonah-Angoon Census Area, Alaska	100%	802	94	12%	224	54	24%	57%
Louisa County, Virginia	100%	13,451	2,127	16%	3,800	1,414	37%	66%
San Juan County, Washington	100%	7,718	1,100	14%	1,270	383	30%	35%
Harding County, South Dakota	100%	533	68	13%	114	26	23%	38%
Clay County, Nebraska	100%	2,616	356	14%	666	168	25%	47%
Kearny County, Kansas	100%	1,242	191	15%	376	104	28%	54%
Guthrie County, Iowa	100%	4,393	639	15%	1,186	342	29%	54%
Bandera County, Texas	100%	8,278	1,326	16%	2,333	641	27%	48%
McHenry County, North Dakota	100%	2,663	346	13%	645	171	27%	49%
Haskell County, Kansas	100%	1,330	178	13%	352	115	33%	65%
Marshall County, Minnesota	100%	3,953	565	14%	1,232	352	29%	62%
Traill County, North Dakota	100%	3,349	483	14%	751	257	34%	53%
Trego County, Kansas	100%	1,389	132	10%	234	50	21%	38%
Logan County, North Dakota	100%	879	117	13%	285	60	21%	51%
Osage County, Missouri	100%	5,108	663	13%	2,046	497	24%	75%
King and Queen County, Virginia	100%	2,811	521	19%	1,357	377	28%	72%
Teton County, Idaho	100%	3,764	555	15%	751	159	21%	29%
Pembina County, North Dakota	100%	3,218	440	14%	997	291	29%	66%
Brown County, Indiana	100%	6,011	791	13%	2,044	462	23%	58%
Spink County, South Dakota	100%	2,626	296	11%	602	181	30%	61%
Blanco County, Texas	100%	4,230	564	13%	975	297	30%	53%
Sheridan County, Kansas	100%	1,144	146	13%	279	89	32%	61%
Haines Borough, Alaska	100%	1,087	105	10%	248	78	31%	74%

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Butler County, Iowa	100%	6,278	903	14%	1,866	587	31%	65%
Southeast Fairbanks Census Area, Alaska	100%	2,139	339	16%	536	164	31%	48%
Ouray County, Colorado	100%	2,204	358	16%	403	120	30%	34%
Douglas County, Washington	100%	14,706	1,805	12%	3,302	897	27%	50%
Mineral County, Colorado	100%	404	44	11%	86	21	24%	48%
Petersburg Borough, Alaska	100%	1,255	179	14%	302	112	37%	63%
Aurora County, South Dakota	100%	1,179	128	11%	361	71	20%	55%
Fallon County, Montana	100%	1,241	116	9%	319	49	15%	42%
Adams County, North Dakota	100%	1,052	180	17%	251	113	45%	63%
Slope County, North Dakota	100%	309	38	12%	98	27	28%	71%
Grant County, Oklahoma	100%	1,883	214	11%	582	103	18%	48%
Rappahannock County, Virginia	100%	3,131	469	15%	934	319	34%	68%
Aleutians East Borough, Alaska	100%	812	101	12%	258	49	19%	49%
Gosper County, Nebraska	100%	885	73	8%	228	43	19%	59%
Amelia County, Virginia	100%	4,699	737	16%	1,441	500	35%	68%
Perkins County, Nebraska	100%	1,247	180	14%	221	65	29%	36%
Sibley County, Minnesota	100%	5,993	699	12%	1,830	446	24%	64%
Cavalier County, North Dakota	100%	1,787	189	11%	375	89	24%	47%
Dickey County, North Dakota	100%	2,192	298	14%	478	152	32%	51%
Deuel County, South Dakota	100%	1,835	237	13%	524	139	27%	59%
Oldham County, Texas	100%	581	85	15%	144	46	32%	54%
Alpine County, California	100%	304	47	15%	38	18	47%	38%
Sanborn County, South Dakota	100%	1,050	106	10%	251	67	27%	63%
Ransom County, North Dakota	100%	2,333	240	10%	625	163	26%	68%
Park County, Colorado	100%	7,389	933	13%	1,324	371	28%	40%
Wabaunsee County, Kansas	100%	2,732	360	13%	736	177	24%	49%
Putnam County, Illinois	100%	2,438	304	12%	661	170	26%	56%
Mountrail County, North Dakota	100%	3,213	453	14%	1,058	261	25%	58%
McLean County, North Dakota	100%	4,313	564	13%	1,593	335	21%	59%
Bowman County, North Dakota	100%	1,432	223	16%	354	99	28%	44%
Jefferson County, Montana	100%	4,512	537	12%	1,003	208	21%	39%
Blaine County, Nebraska	100%	232	16	7%	50	12	24%	75%
Stillwater County, Montana	100%	3,797	389	10%	874	196	22%	50%

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Hanson County, South Dakota	100%	1,061	98	9%	208	66	32%	67%
Ohio County, Indiana	100%	2,479	322	13%	694	199	29%	62%
Billings County, North Dakota	100%	401	49	12%	142	29	20%	59%
Foster County, North Dakota	100%	1,502	147	10%	393	96	24%	65%
McCook County, South Dakota	100%	2,182	228	10%	540	111	21%	49%
Broadwater County, Montana	100%	2,405	327	14%	771	218	28%	67%
Mathews County, Virginia	100%	3,766	478	13%	1,047	288	28%	60%
Wheeler County, Nebraska	100%	378	38	10%	120	32	27%	84%
Burke County, North Dakota	100%	950	162	17%	293	105	36%	65%
Polk County, Nebraska	100%	2,038	218	11%	430	121	28%	56%
Rock County, Nebraska	100%	655	88	13%	204	59	29%	67%
Edmunds County, South Dakota	100%	1,579	191	12%	454	122	27%	64%
Dunn County, North Dakota	100%	1,601	228	14%	404	107	26%	47%
Armstrong County, Texas	100%	702	78	11%	189	45	24%	58%
Crook County, Wyoming	100%	3,010	338	11%	903	146	16%	43%
Grundy County, Iowa	100%	5,155	567	11%	1,188	307	26%	54%
Lyon County, Iowa	100%	4,489	476	11%	926	209	23%	44%
Sully County, South Dakota	100%	601	68	11%	144	26	18%	38%
Yakutat City and Borough, Alaska	100%	255	32	13%	77	18	23%	56%
Martin County, Texas	100%	1,635	176	11%	582	123	21%	70%
Grand Isle County, Vermont	100%	2,952	334	11%	570	182	32%	54%
Clear Creek County, Colorado	100%	4,374	474	11%	832	207	25%	44%
Spencer County, Kentucky	100%	6,678	582	9%	1,095	261	24%	45%
Sargent County, North Dakota	100%	1,819	208	11%	403	110	27%	53%
Gray County, Kansas	100%	2,141	185	9%	588	113	19%	61%
Oliver County, North Dakota	100%	788	99	13%	207	78	38%	79%
Renville County, North Dakota	100%	1,011	122	12%	273	72	26%	59%
McMullen County, Texas	100%	194	24	12%	85	22	26%	92%
Valdez-Cordova Census Area, Alaska	100%	2,849	323	11%	555	186	34%	58%
King County, Texas	100%	101	7	7%	27	3	11%	43%
Kalawao County, Hawaii	100%	53	9	17%	21	9	43%	100%
Gilpin County, Colorado	100%	2,603	216	8%	499	139	28%	64%
Bristol Bay Borough, Alaska	100%	358	35	10%	67	13	19%	37%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes below \$20,000 as % of all		No broadband total	Less than \$20,000 as % of all with no broadband		% of cohort with no broadband
Loving County, Texas	100%	31	4	13%	11	4	36%	100%
Steele County, North Dakota	100%	916	69	8%	208	33	16%	48%
Hamlin County, South Dakota	100%	2,193	156	7%	657	105	16%	67%
Borden County, Texas	100%	248	22	9%	59	9	15%	41%
McKenzie County, North Dakota	100%	3,651	321	9%	820	158	19%	49%
New Kent County, Virginia	100%	7,555	473	6%	1,886	281	15%	59%
Denali Borough, Alaska	100%	678	66	10%	70	30	43%	45%
Elbert County, Colorado	100%	8,866	657	7%	1,073	232	22%	35%
Sublette County, Wyoming	100%	3,197	181	6%	547	71	13%	39%
Aleutians West Census Area, Alaska	100%	1,218	86	7%	316	55	17%	64%
Roberts County, Texas	100%	326	12	4%	54	3	6%	25%
Skagway Municipality, Alaska	100%	423	22	5%	67	9	13%	41%

HOUSEHOLDS WITH ANNUAL INCOMES ABOVE \$74,999 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Total		2,102,641	547,283	26%	744,840	79,641	11%	15%
Median				26%			11%	14%
McCreary County, Kentucky	100%	6,332	462	7%	3,542	121	3%	26%
Perry County, Alabama	100%	3,039	317	10%	1,829	62	3%	20%
Tensas Parish, Louisiana	100%	1,930	249	13%	1,120	86	8%	35%
Stewart County, Georgia	100%	1,780	249	14%	860	47	5%	19%
Wolfe County, Kentucky	100%	2,853	257	9%	1,279	21	2%	8%
Issaquena County, Mississippi	100%	437	49	11%	222	29	13%	59%
Claiborne County, Mississippi	100%	3,187	286	9%	1,432	26	2%	9%
Greene County, Alabama	100%	3,025	312	10%	1,756	55	3%	18%
Wilkinson County, Mississippi	100%	2,882	316	11%	1,567	130	8%	41%
Sumter County, Alabama	100%	5,073	674	13%	2,514	102	4%	15%
Jefferson County, Mississippi	100%	2,453	353	14%	1,066	0	0%	0%
Jefferson Davis County, Mississippi	100%	4,798	579	12%	2,840	221	8%	38%
Clay County, Georgia	100%	1,154	174	15%	524	21	4%	12%
Terrell County, Texas	100%	343	68	20%	197	12	6%	18%
Hudspeth County, Texas	100%	890	85	10%	501	27	5%	32%
Lee County, Kentucky	100%	2,843	349	12%	1,417	31	2%	9%
Kenedy County, Texas	100%	152	26	17%	97	10	10%	38%
Owsley County, Kentucky	100%	1,696	257	15%	668	16	2%	6%
Kemper County, Mississippi	100%	3,695	568	15%	2,271	92	4%	16%
Mora County, New Mexico	100%	1,513	229	15%	827	59	7%	26%
Todd County, South Dakota	100%	2,768	355	13%	1,468	128	9%	36%
Leslie County, Kentucky	100%	4,292	491	11%	1,757	39	2%	8%
Elliott County, Kentucky	100%	2,635	375	14%	1,088	71	7%	19%
Wheeler County, Georgia	100%	1,972	261	13%	1,489	168	11%	64%
Sharkey County, Mississippi	100%	1,809	249	14%	719	25	3%	10%
Twiggs County, Georgia	100%	2,943	530	18%	1,516	168	11%	32%
Magoffin County, Kentucky	100%	5,057	746	15%	1,754	35	2%	5%
Hancock County, Tennessee	100%	2,704	435	16%	1,626	132	8%	30%
Amite County, Mississippi	100%	4,994	911	18%	2,446	130	5%	14%
Costilla County, Colorado	100%	1,568	253	16%	747	32	4%	13%

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 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Walthall County, Mississippi	100%	5,903	977	17%	3,225	207	6%	21%
Calhoun County, Georgia	100%	1,865	248	13%	733	34	5%	14%
Taliaferro County, Georgia	100%	710	107	15%	459	25	5%	23%
Dickenson County, Virginia	100%	6,096	1,071	18%	2,679	164	6%	15%
Mellette County, South Dakota	100%	683	91	13%	405	20	5%	22%
Letcher County, Kentucky	100%	10,065	1,621	16%	3,588	175	5%	11%
Wilcox County, Alabama	100%	3,841	483	13%	2,242	145	6%	30%
Hall County, Texas	100%	1,244	186	15%	541	22	4%	12%
Woodruff County, Arkansas	100%	2,874	558	19%	1,413	96	7%	17%
Atkinson County, Georgia	100%	2,835	505	18%	1,392	177	13%	35%
Ozark County, Missouri	100%	4,075	595	15%	1,816	150	8%	25%
Buchanan County, Virginia	100%	9,022	1,652	18%	3,853	338	9%	20%
Clinton County, Kentucky	100%	4,025	638	16%	1,826	133	7%	21%
Taylor County, Georgia	100%	3,554	553	16%	1,604	118	7%	21%
Buffalo County, South Dakota	100%	530	71	13%	263	16	6%	23%
Shannon County, Missouri	100%	3,158	452	14%	1,598	118	7%	26%
Clark County, Idaho	100%	313	71	23%	151	21	14%	30%
Lowndes County, Alabama	100%	4,309	696	16%	2,278	143	6%	21%
Warren County, Georgia	100%	2,274	388	17%	1,349	114	8%	29%
Jackson County, Kentucky	100%	5,435	801	15%	2,282	142	6%	18%
Clay County, Tennessee	100%	3,171	440	14%	1,560	77	5%	18%
Knott County, Kentucky	100%	6,158	1,010	16%	2,391	72	3%	7%
Perry County, Tennessee	100%	3,295	530	16%	1,580	149	9%	28%
Robertson County, Kentucky	100%	938	173	18%	556	56	10%	32%
Choctaw County, Alabama	100%	5,463	1,056	19%	2,605	221	8%	21%
Martin County, Kentucky	100%	4,316	584	14%	1,532	121	8%	21%
Lewis County, Kentucky	100%	5,496	1,128	21%	2,217	147	7%	13%
Caldwell Parish, Louisiana	100%	3,680	776	21%	1,544	90	6%	12%
Tyrrell County, North Carolina	100%	1,539	266	17%	686	76	11%	29%
Lafayette County, Arkansas	100%	2,860	564	20%	1,421	117	8%	21%
Sabine County, Texas	100%	3,811	709	19%	1,217	31	3%	4%
Lake County, Michigan	100%	4,555	675	15%	1,969	129	7%	19%
Grundy County, Tennessee	100%	4,894	660	13%	1,994	96	5%	15%

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Fentress County, Tennessee	100%	7,385	987	13%	2,765	81	3%	8%
Casey County, Kentucky	100%	6,398	1,183	18%	2,384	114	5%	10%
Cottle County, Texas	100%	664	101	15%	272	10	4%	10%
Corson County, South Dakota	100%	1,239	210	17%	588	31	5%	15%
Calhoun County, Mississippi	100%	5,853	985	17%	2,737	197	7%	20%
De Baca County, New Mexico	100%	666	160	24%	234	21	9%	13%
San Augustine County, Texas	100%	3,202	612	19%	1,412	121	9%	20%
Lake County, Tennessee	100%	2,164	421	19%	860	78	9%	19%
Hidalgo County, New Mexico	100%	1,761	262	15%	685	35	5%	13%
Culberson County, Texas	100%	735	109	15%	373	30	8%	28%
Stone County, Arkansas	100%	4,910	875	18%	2,440	203	8%	23%
Wheeler County, Oregon	100%	677	113	17%	201	7	3%	6%
Echols County, Georgia	100%	1,502	326	22%	785	55	7%	17%
Jackson County, Tennessee	100%	4,566	718	16%	1,835	113	6%	16%
Morgan County, Kentucky	100%	4,937	874	18%	1,653	87	5%	10%
Dooly County, Georgia	100%	5,171	920	18%	2,396	114	5%	12%
Webster County, West Virginia	100%	3,690	605	16%	1,313	41	3%	7%
Van Buren County, Arkansas	100%	6,867	1,366	20%	2,867	296	10%	22%
Ripley County, Missouri	100%	5,397	876	16%	1,927	83	4%	9%
Clay County, West Virginia	100%	3,365	473	14%	1,146	29	3%	6%
Choctaw County, Mississippi	100%	3,198	706	22%	1,548	134	9%	19%
Wayne County, Tennessee	100%	5,860	1,160	20%	2,439	114	5%	10%
Russell County, Kentucky	100%	7,204	1,198	17%	2,868	113	4%	9%
Coosa County, Alabama	100%	4,204	723	17%	1,758	81	5%	11%
Pulaski County, Illinois	100%	2,246	395	18%	1,080	81	8%	21%
Morgan County, Missouri	100%	7,774	1,469	19%	3,247	315	10%	21%
Catahoula Parish, Louisiana	100%	3,747	1,001	27%	1,724	193	11%	19%
Hickory County, Missouri	100%	3,983	625	16%	1,465	108	7%	17%
Saguache County, Colorado	100%	2,626	530	20%	862	36	4%	7%
St. Clair County, Missouri	100%	4,135	681	16%	1,655	130	8%	19%
Harding County, New Mexico	100%	203	37	18%	107	2	2%	5%
Wayne County, Missouri	100%	5,482	722	13%	2,099	95	5%	13%
Crowley County, Colorado	100%	1,215	201	17%	293	33	11%	16%

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Montgomery County, Arkansas	100%	3,855	750	19%	1,673	125	7%	17%
St. Helena Parish, Louisiana	100%	3,990	846	21%	2,041	119	6%	14%
Perry County, Mississippi	100%	4,476	869	19%	1,858	194	10%	22%
Jasper County, Mississippi	100%	6,817	1,370	20%	3,715	350	9%	26%
Webster County, Mississippi	100%	3,842	796	21%	1,575	169	11%	21%
Pushmataha County, Oklahoma	100%	4,550	971	21%	1,829	121	7%	12%
Wilcox County, Georgia	100%	2,676	565	21%	1,340	162	12%	29%
Monroe County, Kentucky	100%	4,376	854	20%	1,726	76	4%	9%
Swain County, North Carolina	100%	5,464	1,009	18%	3,010	301	10%	30%
Metcalfe County, Kentucky	100%	3,940	743	19%	1,197	77	6%	10%
Blaine County, Montana	100%	2,314	369	16%	841	26	3%	7%
Calhoun County, West Virginia	100%	2,808	631	22%	998	68	7%	11%
Warren County, North Carolina	100%	8,157	1,569	19%	3,768	361	10%	23%
Conejos County, Colorado	100%	2,992	582	19%	1,148	114	10%	20%
Rolette County, North Dakota	100%	4,740	1,158	24%	1,693	173	10%	15%
Trinity County, California	100%	5,462	1,280	23%	1,966	139	7%	11%
Decatur County, Tennessee	100%	4,721	962	20%	1,682	165	10%	17%
Graham County, North Carolina	100%	3,303	567	17%	1,684	161	10%	28%
Jefferson County, Oklahoma	100%	2,392	439	18%	1,079	103	10%	23%
Cumberland County, Kentucky	100%	2,709	376	14%	1,074	40	4%	11%
Custer County, Idaho	100%	1,850	467	25%	467	17	4%	4%
Lamar County, Alabama	100%	6,019	1,048	17%	2,509	91	4%	9%
Pickens County, Alabama	100%	7,620	1,569	21%	2,977	193	6%	12%
Ontonagon County, Michigan	100%	2,945	470	16%	1,250	58	5%	12%
Woodson County, Kansas	100%	1,523	230	15%	616	48	8%	21%
Menard County, Texas	100%	964	242	25%	424	60	14%	25%
Sanders County, Montana	100%	4,994	897	18%	1,737	69	4%	8%
Lincoln County, West Virginia	100%	8,046	1,782	22%	2,492	104	4%	6%
Baca County, Colorado	100%	1,603	348	22%	497	37	7%	11%
Clay County, Alabama	100%	5,338	1,134	21%	1,816	94	5%	8%
Marion County, Arkansas	100%	6,663	952	14%	1,995	74	4%	8%
Pocahontas County, West Virginia	100%	3,647	768	21%	1,190	102	9%	13%
Jones County, North Carolina	100%	4,148	818	20%	1,845	203	11%	25%

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Baylor County, Texas	100%	1,644	407	25%	495	31	6%	8%
Real County, Texas	100%	1,123	223	20%	454	43	9%	19%
Miller County, Georgia	100%	2,326	449	19%	1,287	65	5%	14%
Lincoln County, Georgia	100%	3,438	727	21%	1,593	167	10%	23%
Oscoda County, Michigan	100%	3,728	603	16%	1,552	139	9%	23%
Green County, Kentucky	100%	4,467	905	20%	1,711	95	6%	10%
Covington County, Mississippi	100%	6,919	1,406	20%	3,305	93	3%	7%
Lincoln County, Arkansas	100%	3,928	839	21%	1,723	143	8%	17%
Putnam County, Missouri	100%	1,956	351	18%	724	48	7%	14%
Hampshire County, West Virginia	100%	9,676	1,841	19%	4,422	228	5%	12%
Pike County, Arkansas	100%	4,313	781	18%	1,815	108	6%	14%
Searcy County, Arkansas	100%	3,336	562	17%	1,583	193	12%	34%
West Carroll Parish, Louisiana	100%	4,182	952	23%	2,350	246	10%	26%
Calhoun County, Arkansas	100%	2,061	461	22%	963	109	11%	24%
Tishomingo County, Mississippi	100%	7,606	1,292	17%	3,103	255	8%	20%
Atoka County, Oklahoma	100%	5,284	1,128	21%	1,893	137	7%	12%
Smith County, Mississippi	100%	5,850	1,326	23%	3,324	402	12%	30%
Camas County, Idaho	100%	370	84	23%	123	3	2%	4%
Newton County, Arkansas	100%	3,152	547	17%	1,429	106	7%	19%
Greene County, North Carolina	100%	7,348	1,348	18%	2,284	128	6%	9%
Webster County, Georgia	100%	1,091	247	23%	563	54	10%	22%
Cleburne County, Alabama	100%	5,773	1,196	21%	2,436	103	4%	9%
Edwards County, Texas	100%	634	175	28%	356	48	13%	27%
Clarke County, Mississippi	100%	6,365	1,291	20%	3,113	140	4%	11%
Forest County, Pennsylvania	100%	1,473	186	13%	589	36	6%	19%
Coal County, Oklahoma	100%	2,240	593	26%	891	125	14%	21%
Harmon County, Oklahoma	100%	1,185	256	22%	352	28	8%	11%
Menominee County, Wisconsin	100%	1,354	310	23%	475	44	9%	14%
Patrick County, Virginia	100%	7,713	1,598	21%	2,969	227	8%	14%
Liberty County, Florida	100%	2,325	609	26%	946	194	21%	32%
Todd County, Kentucky	100%	4,610	923	20%	2,173	197	9%	21%
Hardin County, Illinois	100%	1,452	263	18%	536	40	7%	15%
Niobrara County, Wyoming	100%	982	203	21%	316	31	10%	15%

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Yancey County, North Carolina	100%	7,493	1,501	20%	3,068	226	7%	15%
Izard County, Arkansas	100%	5,189	1,085	21%	2,201	198	9%	18%
Jackson County, South Dakota	100%	984	213	22%	484	39	8%	18%
Cochran County, Texas	100%	1,000	233	23%	437	34	8%	15%
Marion County, Texas	100%	4,457	990	22%	1,975	154	8%	16%
Yukon-Koyukuk Census Area, Alaska	100%	1,959	460	23%	1,103	132	12%	29%
Red River Parish, Louisiana	100%	3,374	809	24%	1,351	77	6%	10%
Lawrence County, Mississippi	100%	4,822	1,158	24%	2,671	367	14%	32%
Musselshell County, Montana	100%	2,073	559	27%	541	79	15%	14%
Cherokee County, North Carolina	100%	11,206	2,163	19%	3,858	298	8%	14%
Webster County, Kentucky	100%	5,095	1,151	23%	2,084	235	11%	20%
Crenshaw County, Alabama	100%	5,358	1,184	22%	2,298	151	7%	13%
Mineral County, Montana	100%	1,694	326	19%	613	34	6%	10%
Menifee County, Kentucky	100%	2,537	425	17%	922	62	7%	15%
Jones County, South Dakota	100%	405	79	20%	112	3	3%	4%
Johnston County, Oklahoma	100%	4,256	896	21%	1,781	194	11%	22%
Braxton County, West Virginia	100%	5,498	1,244	23%	2,221	275	12%	22%
Clay County, North Carolina	100%	5,049	919	18%	1,328	140	11%	15%
Esmeralda County, Nevada	100%	494	88	18%	209	14	7%	16%
Ogemaw County, Michigan	100%	9,325	1,740	19%	3,200	338	11%	19%
Throckmorton County, Texas	100%	712	174	24%	288	30	10%	17%
Piscataquis County, Maine	100%	7,477	1,391	19%	2,637	187	7%	13%
Dolores County, Colorado	100%	707	183	26%	256	33	13%	18%
Crawford County, Indiana	100%	4,007	701	17%	1,774	112	6%	16%
Benton County, Mississippi	100%	2,960	499	17%	1,403	121	9%	24%
Bath County, Kentucky	100%	4,509	883	20%	1,521	126	8%	14%
Hickman County, Kentucky	100%	1,877	348	19%	854	100	12%	29%
Wilkinson County, Georgia	100%	3,288	682	21%	1,471	133	9%	20%
Schuyler County, Missouri	100%	1,669	341	20%	723	45	6%	13%
Essex County, Vermont	100%	2,720	570	21%	883	59	7%	10%
Hardeman County, Texas	100%	1,533	385	25%	547	27	5%	7%
Alleghany County, North Carolina	100%	4,742	915	19%	1,491	106	7%	12%
Wheatland County, Montana	100%	820	172	21%	293	42	14%	24%

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 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
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Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Motley County, Texas	100%	469	106	23%	146	13	9%	12%
Marion County, Georgia	100%	3,263	682	21%	1,552	184	12%	27%
Lafayette County, Florida	100%	2,193	689	31%	723	42	6%	6%
Charlotte County, Virginia	100%	4,493	792	18%	2,251	205	9%	26%
Bracken County, Kentucky	100%	3,427	877	26%	1,274	132	10%	15%
Decatur County, Iowa	100%	3,172	720	23%	1,145	119	10%	17%
Crosby County, Texas	100%	2,064	427	21%	816	59	7%	14%
Pendleton County, West Virginia	100%	3,032	645	21%	1,336	120	9%	19%
Meigs County, Tennessee	100%	4,818	1,198	25%	2,038	105	5%	9%
Butler County, Kentucky	100%	5,060	1,210	24%	1,905	157	8%	13%
Chouteau County, Montana	100%	2,290	534	23%	744	67	9%	13%
Dade County, Missouri	100%	3,107	615	20%	1,154	98	8%	16%
Nicholas County, Kentucky	100%	2,760	660	24%	1,141	167	15%	25%
Sioux County, North Dakota	100%	1,114	283	25%	510	68	13%	24%
Hickman County, Tennessee	100%	8,930	1,828	20%	4,136	383	9%	21%
Chautauqua County, Kansas	100%	1,432	266	19%	514	43	8%	16%
Newton County, Texas	100%	4,781	1,155	24%	2,173	367	17%	32%
Union County, New Mexico	100%	1,424	275	19%	640	46	7%	17%
Washington County, Alabama	100%	6,001	1,403	23%	2,791	264	9%	19%
Pope County, Illinois	100%	1,639	415	25%	718	91	13%	22%
Hitchcock County, Nebraska	100%	1,273	290	23%	471	67	14%	23%
Arthur County, Nebraska	100%	177	33	19%	54	2	4%	6%
Baker County, Georgia	100%	1,321	281	21%	731	91	12%	32%
Prairie County, Arkansas	100%	3,920	781	20%	2,008	147	7%	19%
Grainger County, Tennessee	100%	9,112	1,831	20%	2,991	182	6%	10%
Montmorency County, Michigan	100%	4,074	691	17%	1,393	93	7%	13%
Union County, Tennessee	100%	7,268	1,441	20%	3,029	302	10%	21%
Phillips County, Montana	100%	1,791	374	21%	584	40	7%	11%
Bledsoe County, Tennessee	100%	4,664	1,059	23%	1,933	175	9%	17%
Reynolds County, Missouri	100%	2,628	539	21%	968	67	7%	12%
Carlisle County, Kentucky	100%	1,988	473	24%	659	46	7%	10%
Franklin County, Mississippi	100%	3,097	867	28%	1,013	59	6%	7%
Lunenburg County, Virginia	100%	4,480	920	21%	2,109	142	7%	15%

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Carter County, Missouri	100%	2,403	495	21%	964	73	8%	15%
Knox County, Missouri	100%	1,602	284	18%	648	73	11%	26%
Elk County, Kansas	100%	1,158	184	16%	413	43	10%	23%
Lewis County, Idaho	100%	1,626	336	21%	601	60	10%	18%
Delta County, Texas	100%	2,035	548	27%	718	109	15%	20%
Potter County, Pennsylvania	100%	6,536	1,486	23%	1,968	155	8%	10%
Vinton County, Ohio	100%	5,053	1,108	22%	2,244	362	16%	33%
Schley County, Georgia	100%	1,925	403	21%	584	47	8%	12%
Stonewall County, Texas	100%	458	157	34%	177	28	16%	18%
Crawford County, Georgia	100%	4,715	1,101	23%	1,662	245	15%	22%
Rush County, Kansas	100%	1,432	382	27%	450	52	12%	14%
Keweenaw County, Michigan	100%	1,013	235	23%	390	46	12%	20%
Ferry County, Washington	100%	3,056	723	24%	1,197	180	15%	25%
McPherson County, South Dakota	100%	1,019	287	28%	431	69	16%	24%
Osceola County, Michigan	100%	9,010	1,813	20%	3,734	421	11%	23%
Ritchie County, West Virginia	100%	3,825	734	19%	1,299	45	3%	6%
Gregory County, South Dakota	100%	1,943	500	26%	701	61	9%	12%
Towns County, Georgia	100%	4,588	1,007	22%	1,377	173	13%	17%
Coke County, Texas	100%	1,574	383	24%	539	72	13%	19%
Arenac County, Michigan	100%	6,663	1,340	20%	2,548	221	9%	16%
Bollinger County, Missouri	100%	4,805	1,006	21%	1,846	223	12%	22%
Maries County, Missouri	100%	3,667	849	23%	1,557	170	11%	20%
Wirt County, West Virginia	100%	2,427	320	13%	843	28	3%	9%
Van Buren County, Tennessee	100%	2,156	431	20%	739	49	7%	11%
Edmonson County, Kentucky	100%	4,880	1,139	23%	1,371	79	6%	7%
San Jacinto County, Texas	100%	9,414	2,403	26%	2,924	279	10%	12%
Sherman County, Oregon	100%	779	209	27%	188	8	4%	4%
Butte County, Idaho	100%	1,049	298	28%	285	38	13%	13%
Mahnomen County, Minnesota	100%	1,947	499	26%	754	68	9%	14%
McCormick County, South Carolina	100%	4,077	743	18%	1,401	103	7%	14%
Gallatin County, Illinois	100%	2,272	527	23%	819	117	14%	22%
Day County, South Dakota	100%	2,567	705	27%	1,003	71	7%	10%
Haakon County, South Dakota	100%	893	199	22%	366	60	16%	30%

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Osborne County, Kansas	100%	1,713	437	26%	497	64	13%	15%
Owen County, Kentucky	100%	3,944	1,016	26%	1,743	204	12%	20%
Jewell County, Kansas	100%	1,388	292	21%	478	52	11%	18%
Briscoe County, Texas	100%	664	146	22%	209	2	1%	1%
Tucker County, West Virginia	100%	2,951	690	23%	870	65	7%	9%
Accomack County, Virginia	100%	13,528	3,482	26%	5,152	561	11%	16%
Graham County, Kansas	100%	1,239	284	23%	315	37	12%	13%
Pickett County, Tennessee	100%	2,180	335	15%	765	13	2%	4%
Chariton County, Missouri	100%	2,842	707	25%	1,014	113	11%	16%
Switzerland County, Indiana	100%	4,259	909	21%	1,565	131	8%	14%
Grant County, Nebraska	100%	274	70	26%	78	12	15%	17%
Sioux County, Nebraska	100%	579	171	30%	196	27	14%	16%
Lincoln County, Colorado	100%	1,477	372	25%	373	46	12%	12%
Fannin County, Georgia	100%	10,175	2,517	25%	2,580	166	6%	7%
Benson County, North Dakota	100%	2,292	581	25%	1,035	126	12%	22%
Perquimans County, North Carolina	100%	5,882	1,438	24%	1,928	148	8%	10%
Madison County, Arkansas	100%	6,190	1,523	25%	2,559	416	16%	27%
Nuckolls County, Nebraska	100%	1,985	491	25%	587	52	9%	11%
Baraga County, Michigan	100%	3,009	642	21%	931	118	13%	18%
Chase County, Kansas	100%	1,095	285	26%	345	9	3%	3%
Trousdale County, Tennessee	100%	2,944	729	25%	1,233	150	12%	21%
Heard County, Georgia	100%	4,379	1,074	25%	1,754	245	14%	23%
Dickens County, Texas	100%	832	201	24%	239	26	11%	13%
Meagher County, Montana	100%	777	160	21%	278	29	10%	18%
Shelby County, Missouri	100%	2,446	574	23%	746	32	4%	6%
Sullivan County, Missouri	100%	2,283	513	22%	851	64	8%	12%
Linn County, Kansas	100%	4,433	1,208	27%	1,990	260	13%	22%
Vilas County, Wisconsin	100%	10,758	2,585	24%	3,356	339	10%	13%
Sedgwick County, Colorado	100%	998	243	24%	356	40	11%	16%
Collingsworth County, Texas	100%	1,099	228	21%	378	31	8%	14%
Gilliam County, Oregon	100%	805	201	25%	265	18	7%	9%
Northampton County, Virginia	100%	5,177	1,277	25%	1,975	127	6%	10%
Mills County, Texas	100%	1,833	458	25%	539	45	8%	10%

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Atchison County, Missouri	100%	2,492	598	24%	759	70	9%	12%
Sussex County, Virginia	100%	3,388	811	24%	1,366	124	9%	15%
Republic County, Kansas	100%	2,307	524	23%	847	100	12%	19%
Jefferson County, Florida	100%	5,702	1,450	25%	1,892	201	11%	14%
Wallowa County, Oregon	100%	3,126	879	28%	865	77	9%	9%
Scotland County, Missouri	100%	1,870	436	23%	575	44	8%	10%
Decatur County, Kansas	100%	1,439	321	22%	387	17	4%	5%
Emmons County, North Dakota	100%	1,565	418	27%	696	70	10%	17%
Brown County, Nebraska	100%	1,475	384	26%	475	54	11%	14%
Custer County, Colorado	100%	2,093	466	22%	497	31	6%	7%
Breckinridge County, Kentucky	100%	7,467	1,790	24%	2,654	205	8%	11%
Polk County, Tennessee	100%	7,023	1,712	24%	2,494	273	11%	16%
Kimball County, Nebraska	100%	1,546	371	24%	457	71	16%	19%
Union County, Georgia	100%	8,788	2,413	27%	2,574	222	9%	9%
Houston County, Tennessee	100%	2,999	576	19%	1,127	120	11%	21%
Thurston County, Nebraska	100%	2,142	538	25%	879	86	10%	16%
Golden Valley County, North Dakota	100%	863	215	25%	299	28	9%	13%
Dundy County, Nebraska	100%	875	195	22%	237	24	10%	12%
Judith Basin County, Montana	100%	925	236	26%	270	22	8%	9%
Clark County, Missouri	100%	2,907	743	26%	969	92	9%	12%
Charles Mix County, South Dakota	100%	3,184	864	27%	1,327	156	12%	18%
Sheridan County, Nebraska	100%	2,306	482	21%	815	54	7%	11%
Foard County, Texas	100%	562	123	22%	179	17	9%	14%
Mercer County, Missouri	100%	1,390	342	25%	495	62	13%	18%
Concho County, Texas	100%	791	231	29%	239	6	3%	3%
Webster County, Nebraska	100%	1,499	392	26%	467	44	9%	11%
Nance County, Nebraska	100%	1,553	454	29%	451	22	5%	5%
Johnson County, Illinois	100%	4,486	1,286	29%	1,763	209	12%	16%
Oneida County, Idaho	100%	1,581	371	23%	334	33	10%	9%
Catron County, New Mexico	100%	1,433	196	14%	643	9	1%	5%
Forest County, Wisconsin	100%	4,040	861	21%	1,512	132	9%	15%
Morgan County, West Virginia	100%	7,118	1,900	27%	1,948	268	14%	14%
Monroe County, Missouri	100%	3,615	847	23%	1,329	163	12%	19%

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Grant County, Oregon	100%	3,176	859	27%	854	69	8%	8%
Pawnee County, Nebraska	100%	1,238	317	26%	427	41	10%	13%
Stanton County, Kansas	100%	798	207	26%	292	42	14%	20%
Daviess County, Missouri	100%	3,083	750	24%	991	82	8%	11%
Wayne County, Iowa	100%	2,631	543	21%	903	88	10%	16%
Carroll County, Mississippi	100%	3,592	1,167	32%	1,513	118	8%	10%
Lane County, Kansas	100%	828	238	29%	203	27	13%	11%
Leon County, Texas	100%	6,245	1,980	32%	1,690	248	15%	13%
Gentry County, Missouri	100%	2,662	604	23%	733	59	8%	10%
Sullivan County, Pennsylvania	100%	2,648	699	26%	852	123	14%	18%
Morton County, Kansas	100%	1,115	305	27%	339	48	14%	16%
Cimarron County, Oklahoma	100%	990	254	26%	369	46	12%	18%
Clark County, South Dakota	100%	1,510	399	26%	571	66	12%	17%
Missaukee County, Michigan	100%	5,941	1,243	21%	1,891	169	9%	14%
Holt County, Missouri	100%	2,111	529	25%	675	65	10%	12%
Carter County, Montana	100%	565	146	26%	167	27	16%	18%
Ballard County, Kentucky	100%	3,225	893	28%	966	83	9%	9%
Adams County, Idaho	100%	1,736	414	24%	588	62	11%	15%
Wibaux County, Montana	100%	497	135	27%	230	18	8%	13%
Pamlico County, North Carolina	100%	5,395	1,472	27%	1,711	143	8%	10%
Harlan County, Nebraska	100%	1,590	443	28%	416	47	11%	11%
Calhoun County, South Carolina	100%	6,150	1,635	27%	2,331	233	10%	14%
East Feliciana Parish, Louisiana	100%	6,817	1,824	27%	2,985	361	12%	20%
Buckingham County, Virginia	100%	5,705	1,343	24%	2,422	307	13%	23%
Cleveland County, Arkansas	100%	3,292	858	26%	1,551	274	18%	32%
Petroleum County, Montana	100%	206	61	30%	54	11	20%	18%
Caldwell County, Missouri	100%	3,741	977	26%	1,229	139	11%	14%
McLean County, Kentucky	100%	3,826	1,084	28%	1,244	147	12%	14%
Aitkin County, Minnesota	100%	7,709	1,891	25%	2,584	261	10%	14%
Union County, Indiana	100%	2,860	642	22%	1,032	160	16%	25%
Clearwater County, Minnesota	100%	3,428	885	26%	1,081	97	9%	11%
Washington County, Kentucky	100%	4,507	1,117	25%	1,663	117	7%	10%
Smith County, Kansas	100%	1,662	463	28%	445	39	9%	8%

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Kiowa County, Colorado	100%	576	150	26%	132	14	11%	9%
Wahkiakum County, Washington	100%	1,823	459	25%	418	35	8%	8%
Furnas County, Nebraska	100%	2,172	529	24%	638	53	8%	10%
Adams County, Wisconsin	100%	8,163	1,845	23%	2,545	215	8%	12%
Richmond County, Virginia	100%	3,250	838	26%	1,237	238	19%	28%
Lewis County, Missouri	100%	3,754	894	24%	1,157	56	5%	6%
Roger Mills County, Oklahoma	100%	1,350	457	34%	516	105	20%	23%
Glascocock County, Georgia	100%	1,083	242	22%	413	55	13%	23%
Ellis County, Oklahoma	100%	1,625	485	30%	630	106	17%	22%
Madison County, Montana	100%	3,487	1,033	30%	1,141	167	15%	16%
Wallace County, Kansas	100%	594	237	40%	169	34	20%	14%
Greene County, Mississippi	100%	4,174	1,193	29%	1,583	128	8%	11%
Garfield County, Washington	100%	1,007	271	27%	280	40	14%	15%
Treasure County, Montana	100%	365	69	19%	130	15	12%	22%
Lake and Peninsula Borough, Alaska	100%	408	109	27%	162	19	12%	17%
Rooks County, Kansas	100%	2,144	594	28%	575	65	11%	11%
Knox County, Texas	100%	1,376	384	28%	456	52	11%	14%
Bennett County, South Dakota	100%	955	194	20%	359	59	16%	30%
Keokuk County, Iowa	100%	4,471	1,255	28%	1,380	155	11%	12%
Pocahontas County, Iowa	100%	3,191	903	28%	835	84	10%	9%
Doddridge County, West Virginia	100%	2,662	713	27%	1,002	210	21%	29%
Valley County, Nebraska	100%	1,934	547	28%	666	80	12%	15%
Burnett County, Wisconsin	100%	7,284	1,856	25%	2,178	219	10%	12%
Piute County, Utah	100%	516	119	23%	155	7	5%	6%
Perry County, Arkansas	100%	3,692	947	26%	1,403	193	14%	20%
Boyd County, Nebraska	100%	905	235	26%	315	40	13%	17%
Audubon County, Iowa	100%	2,679	757	28%	862	124	14%	16%
Fisher County, Texas	100%	1,696	451	27%	586	77	13%	17%
Mason County, Texas	100%	1,622	442	27%	677	152	22%	34%
Taylor County, Iowa	100%	2,694	721	27%	819	104	13%	14%
Grant County, North Dakota	100%	1,110	392	35%	360	70	19%	18%
Cheyenne County, Kansas	100%	1,248	338	27%	343	43	13%	13%
Stewart County, Tennessee	100%	5,315	1,253	24%	2,115	196	9%	16%

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Lyon County, Kentucky	100%	3,376	882	26%	1,163	180	15%	20%
Lincoln County, Nevada	100%	1,930	552	29%	496	14	3%	3%
McIntosh County, North Dakota	100%	1,325	336	25%	498	50	10%	15%
Hyde County, North Carolina	100%	1,835	421	23%	963	132	14%	31%
Sherman County, Nebraska	100%	1,378	342	25%	430	40	9%	12%
Logan County, Kansas	100%	1,168	363	31%	279	23	8%	6%
Price County, Wisconsin	100%	6,567	1,561	24%	1,967	218	11%	14%
Perkins County, South Dakota	100%	1,311	418	32%	365	54	15%	13%
Faulk County, South Dakota	100%	944	326	35%	354	30	8%	9%
Calhoun County, Iowa	100%	4,229	1,135	27%	1,241	161	13%	14%
Knox County, Nebraska	100%	3,662	1,079	29%	1,243	172	14%	16%
Pendleton County, Kentucky	100%	5,236	1,531	29%	1,894	102	5%	7%
Live Oak County, Texas	100%	3,586	1,092	30%	1,613	229	14%	21%
Garden County, Nebraska	100%	897	250	28%	286	69	24%	28%
Florence County, Wisconsin	100%	1,979	449	23%	631	51	8%	11%
Big Stone County, Minnesota	100%	2,264	664	29%	690	76	11%	11%
Big Horn County, Wyoming	100%	4,481	1,363	30%	1,254	128	10%	9%
Harper County, Oklahoma	100%	1,348	380	28%	494	70	14%	18%
Morrill County, Nebraska	100%	2,017	465	23%	598	81	14%	17%
Wayne County, Utah	100%	990	275	28%	250	29	12%	11%
Antelope County, Nebraska	100%	2,748	769	28%	817	88	11%	11%
Hayes County, Nebraska	100%	423	100	24%	112	18	16%	18%
Rosebud County, Montana	100%	3,205	1,136	35%	1,394	294	21%	26%
Sweet Grass County, Montana	100%	1,531	464	30%	452	71	16%	15%
Upton County, Texas	100%	1,308	432	33%	655	157	24%	36%
Somervell County, Texas	100%	3,234	1,183	37%	1,144	238	21%	20%
Liberty County, Montana	100%	859	235	27%	327	54	17%	23%
Cumberland County, Illinois	100%	4,287	1,248	29%	1,278	134	10%	11%
Golden Valley County, Montana	100%	325	77	24%	97	12	12%	16%
Roberts County, South Dakota	100%	3,756	1,097	29%	1,347	186	14%	17%
Henry County, Kentucky	100%	6,104	1,667	27%	2,130	191	9%	11%
Van Buren County, Iowa	100%	2,877	772	27%	1,102	127	12%	16%
Jackson County, Colorado	100%	597	167	28%	174	22	13%	13%

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 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
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Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Ringgold County, Iowa	100%	2,063	509	25%	675	57	8%	11%
Gallatin County, Kentucky	100%	3,007	862	29%	1,212	248	20%	29%
Lancaster County, Virginia	100%	5,081	1,734	34%	1,530	226	15%	13%
Granite County, Montana	100%	1,309	323	25%	341	33	10%	10%
Garfield County, Nebraska	100%	893	227	25%	352	54	15%	24%
Lac qui Parle County, Minnesota	100%	3,171	953	30%	905	102	11%	11%
Scott County, Illinois	100%	2,111	582	28%	583	56	10%	10%
Harper County, Kansas	100%	2,357	611	26%	708	74	10%	12%
Bon Homme County, South Dakota	100%	2,554	768	30%	795	123	15%	16%
Stark County, Illinois	100%	2,330	729	31%	685	70	10%	10%
Lincoln County, Minnesota	100%	2,484	769	31%	790	84	11%	11%
Craig County, Virginia	100%	2,344	875	37%	931	262	28%	30%
Daniels County, Montana	100%	876	246	28%	241	50	21%	20%
Lincoln County, Idaho	100%	1,609	393	24%	577	71	12%	18%
Owen County, Indiana	100%	8,551	2,269	27%	3,078	425	14%	19%
Bayfield County, Wisconsin	100%	6,859	1,991	29%	1,641	172	10%	9%
Mariposa County, California	100%	7,434	2,319	31%	2,150	283	13%	12%
Rawlins County, Kansas	100%	1,170	304	26%	282	23	8%	8%
Garfield County, Montana	100%	451	124	27%	135	17	13%	14%
Bland County, Virginia	100%	2,561	744	29%	818	92	11%	12%
Divide County, North Dakota	100%	1,053	405	38%	382	79	21%	20%
Prince of Wales-Hyder Census Area, Alaska	100%	2,315	783	34%	742	145	20%	19%
Marquette County, Wisconsin	100%	6,389	1,755	27%	1,848	288	16%	16%
Middlesex County, Virginia	100%	4,522	1,285	28%	1,603	103	6%	8%
Burt County, Nebraska	100%	2,885	825	29%	1,013	109	11%	13%
Lyman County, South Dakota	100%	1,383	349	25%	451	44	10%	13%
Sheridan County, Montana	100%	1,661	600	36%	399	32	8%	5%
Highland County, Virginia	100%	1,163	349	30%	403	57	14%	16%
Shackelford County, Texas	100%	1,257	349	28%	424	57	13%	16%
Nelson County, North Dakota	100%	1,492	434	29%	487	51	10%	12%
Hutchinson County, South Dakota	100%	2,881	900	31%	957	121	13%	13%
Dewey County, Oklahoma	100%	1,727	563	33%	629	139	22%	25%
Fulton County, Pennsylvania	100%	5,947	1,757	30%	1,954	206	11%	12%

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Benton County, Indiana	100%	3,397	944	28%	1,024	188	18%	20%
Cass County, Minnesota	100%	12,965	3,675	28%	3,595	508	14%	14%
Sheridan County, North Dakota	100%	684	195	29%	254	35	14%	18%
Garfield County, Utah	100%	1,756	528	30%	436	54	12%	10%
Teton County, Montana	100%	2,413	709	29%	670	99	15%	14%
Ness County, Kansas	100%	1,327	372	28%	394	31	8%	8%
Edwards County, Illinois	100%	2,810	844	30%	776	97	13%	11%
Morris County, Kansas	100%	2,325	718	31%	543	43	8%	6%
Campbell County, South Dakota	100%	690	260	38%	216	42	19%	16%
Worth County, Missouri	100%	888	191	22%	281	42	15%	22%
Washington County, Colorado	100%	2,012	558	28%	541	49	9%	9%
Pershing County, Nevada	100%	2,018	680	34%	764	105	14%	15%
Kent County, Texas	100%	275	97	35%	104	17	16%	18%
Skamania County, Washington	100%	4,713	1,553	33%	1,349	234	17%	15%
Floyd County, Virginia	100%	6,434	1,872	29%	2,139	190	9%	10%
Rich County, Utah	100%	601	201	33%	168	30	18%	15%
Hooker County, Nebraska	100%	316	70	22%	123	6	5%	9%
Eddy County, North Dakota	100%	1,048	364	35%	358	59	16%	16%
Cook County, Minnesota	100%	2,700	752	28%	798	157	20%	21%
Norman County, Minnesota	100%	2,733	862	32%	1,100	163	15%	19%
Goliad County, Texas	100%	2,755	1,075	39%	1,067	217	20%	20%
Greeley County, Kansas	100%	494	129	26%	113	10	9%	8%
Thayer County, Nebraska	100%	2,337	699	30%	617	131	21%	19%
Adams County, Iowa	100%	1,654	400	24%	528	74	14%	19%
Kiowa County, Kansas	100%	1,004	292	29%	338	42	12%	14%
Davis County, Iowa	100%	3,255	1,083	33%	1,239	252	20%	23%
Franklin County, Nebraska	100%	1,367	373	27%	413	48	12%	13%
Phillips County, Colorado	100%	1,696	501	30%	380	22	6%	4%
Hand County, South Dakota	100%	1,498	503	34%	463	62	13%	12%
Lincoln County, Maine	100%	15,241	5,151	34%	3,751	510	14%	10%
Lamoille County, Vermont	100%	10,401	3,672	35%	2,204	322	15%	9%
Pepin County, Wisconsin	100%	3,005	989	33%	684	61	9%	6%
Miner County, South Dakota	100%	990	258	26%	265	29	11%	11%

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Johnson County, Nebraska	100%	1,869	487	26%	583	66	11%	14%
Griggs County, North Dakota	100%	1,039	359	35%	340	43	13%	12%
Barber County, Kansas	100%	1,967	607	31%	606	109	18%	18%
Adair County, Iowa	100%	3,210	948	30%	949	120	13%	13%
Towner County, North Dakota	100%	1,033	348	34%	325	50	15%	14%
Greeley County, Nebraska	100%	1,015	267	26%	369	45	12%	17%
Bath County, Virginia	100%	1,847	451	24%	720	55	8%	12%
San Juan County, Colorado	100%	255	71	28%	54	7	13%	10%
Lincoln County, Washington	100%	4,416	1,313	30%	1,086	114	10%	9%
Boise County, Idaho	100%	3,004	1,010	34%	826	193	23%	19%
Hinsdale County, Colorado	100%	368	99	27%	118	16	14%	16%
Hamilton County, Kansas	100%	864	232	27%	243	33	14%	14%
Bear Lake County, Idaho	100%	2,313	745	32%	542	56	10%	8%
Schleicher County, Texas	100%	1,102	421	38%	405	91	22%	22%
McPherson County, Nebraska	100%	192	68	35%	73	17	23%	25%
Lincoln County, Kansas	100%	1,275	379	30%	378	76	20%	20%
Gove County, Kansas	100%	1,193	345	29%	293	28	10%	8%
Red Lake County, Minnesota	100%	1,718	599	35%	517	52	10%	9%
Stafford County, Kansas	100%	1,804	519	29%	589	49	8%	9%
Benzie County, Michigan	100%	6,911	2,140	31%	1,575	155	10%	7%
Charles City County, Virginia	100%	2,899	978	34%	1,328	234	18%	24%
Deuel County, Nebraska	100%	833	217	26%	255	15	6%	7%
Hyde County, South Dakota	100%	582	236	41%	156	30	19%	13%
Howard County, Nebraska	100%	2,656	860	32%	794	98	12%	11%
Washington County, Kansas	100%	2,339	628	27%	814	73	9%	12%
Cheyenne County, Colorado	100%	776	245	32%	189	46	24%	19%
Potter County, South Dakota	100%	1,025	334	33%	278	44	16%	13%
McCone County, Montana	100%	720	231	32%	243	51	21%	22%
Wells County, North Dakota	100%	1,988	703	35%	550	95	17%	14%
Chase County, Nebraska	100%	1,671	493	30%	411	55	13%	11%
Worth County, Iowa	100%	3,179	948	30%	987	90	9%	9%
Valley County, Idaho	100%	3,532	1,043	30%	961	137	14%	13%
Gates County, North Carolina	100%	4,439	1,366	31%	1,614	240	15%	18%

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Keya Paha County, Nebraska	100%	334	84	25%	71	13	18%	15%
Banner County, Nebraska	100%	300	89	30%	62	10	16%	11%
Jeff Davis County, Texas	100%	1,007	257	26%	339	61	18%	24%
Antrim County, Michigan	100%	9,732	2,888	30%	2,669	322	12%	11%
Irion County, Texas	100%	648	281	43%	201	72	36%	26%
Hamilton County, New York	100%	1,095	322	29%	294	73	25%	23%
Powder River County, Montana	100%	764	215	28%	240	46	19%	21%
Calhoun County, Illinois	100%	1,881	570	30%	694	109	16%	19%
Love County, Oklahoma	100%	3,104	886	29%	1,199	236	20%	27%
Nelson County, Virginia	100%	6,523	2,319	36%	2,593	494	19%	21%
Beaver County, Oklahoma	100%	2,103	682	32%	621	143	23%	21%
Pike County, Indiana	100%	5,096	1,618	32%	1,836	254	14%	16%
Turner County, South Dakota	100%	3,523	1,223	35%	1,092	137	13%	11%
Glasscock County, Texas	100%	475	227	48%	124	26	21%	11%
Appomattox County, Virginia	100%	5,948	2,042	34%	2,422	458	19%	22%
Traverse County, Minnesota	100%	1,576	453	29%	497	72	14%	16%
Fillmore County, Nebraska	100%	2,443	895	37%	725	134	18%	15%
Ottawa County, Kansas	100%	2,437	790	32%	828	170	21%	22%
Logan County, Nebraska	100%	366	110	30%	123	31	25%	28%
Louisa County, Iowa	100%	4,364	1,490	34%	1,081	146	14%	10%
Clark County, Kansas	100%	912	244	27%	350	63	18%	26%
Comanche County, Kansas	100%	726	239	33%	197	40	20%	17%
Brule County, South Dakota	100%	2,170	547	25%	681	65	10%	12%
Lake of the Woods County, Minnesota	100%	1,533	488	32%	888	271	31%	56%
Daggett County, Utah	100%	168	86	51%	16	0	0%	0%
Thomas County, Nebraska	100%	293	88	30%	66	5	8%	6%
Sterling County, Texas	100%	462	119	26%	140	25	18%	21%
Wrangell City and Borough, Alaska	100%	1,084	392	36%	277	39	14%	10%
Grant County, Minnesota	100%	2,536	746	29%	747	79	11%	11%
Pierce County, Nebraska	100%	2,985	1,012	34%	773	112	14%	11%
Moody County, South Dakota	100%	2,664	913	34%	690	94	14%	10%
Wheeler County, Texas	100%	2,287	706	31%	698	84	12%	12%
Buffalo County, Wisconsin	100%	5,723	1,819	32%	1,476	171	12%	9%

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Newton County, Indiana	100%	5,530	1,572	28%	1,432	223	16%	14%
Bottineau County, North Dakota	100%	3,096	1,187	38%	720	105	15%	9%
Boone County, Nebraska	100%	2,277	771	34%	555	78	14%	10%
Northumberland County, Virginia	100%	5,774	2,124	37%	1,746	295	17%	14%
Eureka County, Nevada	100%	765	372	49%	212	21	10%	6%
Fremont County, Iowa	100%	2,997	948	32%	794	99	12%	10%
West Feliciana Parish, Louisiana	100%	3,947	1,599	41%	1,346	243	18%	15%
Carbon County, Montana	100%	4,565	1,664	36%	1,275	321	25%	19%
Ida County, Iowa	100%	3,043	990	33%	817	119	15%	12%
Dixon County, Nebraska	100%	2,307	696	30%	688	76	11%	11%
Sherman County, Texas	100%	1,063	360	34%	273	48	18%	13%
Rio Blanco County, Colorado	100%	2,417	966	40%	667	87	13%	9%
Kittson County, Minnesota	100%	1,891	589	31%	842	166	20%	28%
Madison County, Virginia	100%	5,107	1,718	34%	1,687	164	10%	10%
Dillingham Census Area, Alaska	100%	1,405	545	39%	391	61	16%	11%
Custer County, South Dakota	100%	3,901	1,326	34%	1,008	282	28%	21%
Cameron Parish, Louisiana	100%	2,686	1,062	40%	910	145	16%	14%
Hodgeman County, Kansas	100%	786	282	36%	215	24	11%	9%
Lafayette County, Wisconsin	100%	6,714	2,214	33%	1,969	316	16%	14%
Kingsbury County, South Dakota	100%	2,327	799	34%	757	154	20%	19%
Hettinger County, North Dakota	100%	1,078	411	38%	334	55	16%	13%
Frontier County, Nebraska	100%	1,113	303	27%	358	65	18%	21%
Surry County, Virginia	100%	2,773	837	30%	1,142	171	15%	20%
LaMoure County, North Dakota	100%	1,811	649	36%	559	104	19%	16%
Lipscomb County, Texas	100%	1,276	503	39%	264	63	24%	13%
Kidder County, North Dakota	100%	1,053	369	35%	367	70	19%	19%
Major County, Oklahoma	100%	3,030	991	33%	1,038	201	19%	20%
Loup County, Nebraska	100%	245	72	29%	80	10	13%	14%
Alfalfa County, Oklahoma	100%	1,978	679	34%	513	106	21%	16%
Murray County, Minnesota	100%	3,713	1,260	34%	995	147	15%	12%
Sac County, Iowa	100%	4,372	1,380	32%	1,199	180	15%	13%
Jerauld County, South Dakota	100%	911	285	31%	260	32	12%	11%
Cedar County, Nebraska	100%	3,508	1,198	34%	896	137	15%	11%

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Prairie County, Montana	100%	549	155	28%	170	12	7%	8%
Marshall County, Illinois	100%	4,900	1,681	34%	1,358	157	12%	9%
Wichita County, Kansas	100%	890	295	33%	264	54	20%	18%
San Miguel County, Colorado	100%	3,301	1,306	40%	678	143	21%	11%
Meade County, Kansas	100%	1,674	511	31%	425	33	8%	6%
Spencer County, Indiana	100%	8,101	2,715	34%	2,596	363	14%	13%
Marshall County, South Dakota	100%	1,813	620	34%	491	62	13%	10%
Edwards County, Kansas	100%	1,273	401	32%	468	88	19%	22%
Renville County, Minnesota	100%	6,219	2,119	34%	2,257	329	15%	16%
Pope County, Minnesota	100%	4,898	1,754	36%	1,302	228	18%	13%
Hoonah-Angoon Census Area, Alaska	100%	802	319	40%	224	43	19%	13%
Louisa County, Virginia	100%	13,451	5,018	37%	3,800	583	15%	12%
San Juan County, Washington	100%	7,718	3,070	40%	1,270	240	19%	8%
Harding County, South Dakota	100%	533	185	35%	114	19	17%	10%
Clay County, Nebraska	100%	2,616	830	32%	666	100	15%	12%
Kearny County, Kansas	100%	1,242	392	32%	376	43	11%	11%
Guthrie County, Iowa	100%	4,393	1,548	35%	1,186	193	16%	12%
Bandera County, Texas	100%	8,278	2,954	36%	2,333	412	18%	14%
McHenry County, North Dakota	100%	2,663	1,061	40%	645	152	24%	14%
Haskell County, Kansas	100%	1,330	418	31%	352	33	9%	8%
Marshall County, Minnesota	100%	3,953	1,398	35%	1,232	225	18%	16%
Trails County, North Dakota	100%	3,349	1,304	39%	751	110	15%	8%
Trego County, Kansas	100%	1,389	495	36%	234	24	10%	5%
Logan County, North Dakota	100%	879	323	37%	285	58	20%	18%
Osage County, Missouri	100%	5,108	1,683	33%	2,046	257	13%	15%
King and Queen County, Virginia	100%	2,811	938	33%	1,357	278	20%	30%
Teton County, Idaho	100%	3,764	1,387	37%	751	79	11%	6%
Pembina County, North Dakota	100%	3,218	1,267	39%	997	128	13%	10%
Brown County, Indiana	100%	6,011	2,390	40%	2,044	648	32%	27%
Spink County, South Dakota	100%	2,626	882	34%	602	102	17%	12%
Blanco County, Texas	100%	4,230	1,502	36%	975	87	9%	6%
Sheridan County, Kansas	100%	1,144	386	34%	279	26	9%	7%
Haines Borough, Alaska	100%	1,087	499	46%	248	65	26%	13%

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Butler County, Iowa	100%	6,278	2,077	33%	1,866	245	13%	12%
Southeast Fairbanks Census Area, Alaska	100%	2,139	950	44%	536	90	17%	9%
Ouray County, Colorado	100%	2,204	836	38%	403	49	12%	6%
Douglas County, Washington	100%	14,706	4,959	34%	3,302	291	9%	6%
Mineral County, Colorado	100%	404	122	30%	86	5	6%	4%
Petersburg Borough, Alaska	100%	1,255	500	40%	302	29	10%	6%
Aurora County, South Dakota	100%	1,179	381	32%	361	47	13%	12%
Fallon County, Montana	100%	1,241	475	38%	319	87	27%	18%
Adams County, North Dakota	100%	1,052	412	39%	251	25	10%	6%
Slope County, North Dakota	100%	309	120	39%	98	26	27%	22%
Grant County, Oklahoma	100%	1,883	633	34%	582	130	22%	21%
Rappahannock County, Virginia	100%	3,131	1,306	42%	934	198	21%	15%
Aleutians East Borough, Alaska	100%	812	348	43%	258	56	22%	16%
Gosper County, Nebraska	100%	885	357	40%	228	32	14%	9%
Amelia County, Virginia	100%	4,699	1,750	37%	1,441	152	11%	9%
Perkins County, Nebraska	100%	1,247	438	35%	221	41	19%	9%
Sibley County, Minnesota	100%	5,993	2,256	38%	1,830	319	17%	14%
Cavalier County, North Dakota	100%	1,787	794	44%	375	64	17%	8%
Dickey County, North Dakota	100%	2,192	762	35%	478	73	15%	10%
Deuel County, South Dakota	100%	1,835	563	31%	524	130	25%	23%
Oldham County, Texas	100%	581	236	41%	144	21	15%	9%
Alpine County, California	100%	304	112	37%	38	3	8%	3%
Sanborn County, South Dakota	100%	1,050	350	33%	251	39	16%	11%
Ransom County, North Dakota	100%	2,333	828	35%	625	78	12%	9%
Park County, Colorado	100%	7,389	3,038	41%	1,324	193	15%	6%
Wabaunsee County, Kansas	100%	2,732	954	35%	736	139	19%	15%
Putnam County, Illinois	100%	2,438	1,034	42%	661	196	30%	19%
Mountrail County, North Dakota	100%	3,213	1,468	46%	1,058	309	29%	21%
McLean County, North Dakota	100%	4,313	1,842	43%	1,593	485	30%	26%
Bowman County, North Dakota	100%	1,432	663	46%	354	50	14%	8%
Jefferson County, Montana	100%	4,512	1,962	43%	1,003	209	21%	11%
Blaine County, Nebraska	100%	232	72	31%	50	5	10%	7%
Stillwater County, Montana	100%	3,797	1,561	41%	874	238	27%	15%

HOUSEHOLDS WITH ANNUAL INCOMES ABOVE \$74,999 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Hanson County, South Dakota	100%	1,061	419	39%	208	18	9%	4%
Ohio County, Indiana	100%	2,479	934	38%	694	122	18%	13%
Billings County, North Dakota	100%	401	215	54%	142	47	33%	22%
Foster County, North Dakota	100%	1,502	554	37%	393	43	11%	8%
McCook County, South Dakota	100%	2,182	857	39%	540	94	17%	11%
Broadwater County, Montana	100%	2,405	807	34%	771	163	21%	20%
Mathews County, Virginia	100%	3,766	1,533	41%	1,047	280	27%	18%
Wheeler County, Nebraska	100%	378	87	23%	120	10	8%	11%
Burke County, North Dakota	100%	950	435	46%	293	80	27%	18%
Polk County, Nebraska	100%	2,038	819	40%	430	42	10%	5%
Rock County, Nebraska	100%	655	189	29%	204	20	10%	11%
Edmunds County, South Dakota	100%	1,579	651	41%	454	83	18%	13%
Dunn County, North Dakota	100%	1,601	757	47%	404	101	25%	13%
Armstrong County, Texas	100%	702	308	44%	189	55	29%	18%
Crook County, Wyoming	100%	3,010	1,346	45%	903	195	22%	14%
Grundy County, Iowa	100%	5,155	2,171	42%	1,188	153	13%	7%
Lyon County, Iowa	100%	4,489	1,622	36%	926	158	17%	10%
Sully County, South Dakota	100%	601	237	39%	144	24	17%	10%
Yakutat City and Borough, Alaska	100%	255	109	43%	77	20	26%	18%
Martin County, Texas	100%	1,635	777	48%	582	158	27%	20%
Grand Isle County, Vermont	100%	2,952	1,295	44%	570	85	15%	7%
Clear Creek County, Colorado	100%	4,374	1,887	43%	832	202	24%	11%
Spencer County, Kentucky	100%	6,678	2,988	45%	1,095	191	17%	6%
Sargent County, North Dakota	100%	1,819	715	39%	403	64	16%	9%
Gray County, Kansas	100%	2,141	752	35%	588	84	14%	11%
Oliver County, North Dakota	100%	788	375	48%	207	18	9%	5%
Renville County, North Dakota	100%	1,011	426	42%	273	73	27%	17%
McMullen County, Texas	100%	194	85	44%	85	35	41%	41%
Valdez-Cordova Census Area, Alaska	100%	2,849	1,651	58%	555	130	23%	8%
King County, Texas	100%	101	37	37%	27	8	30%	22%
Kalawao County, Hawaii	100%	53	15	28%	21	2	10%	13%
Gilpin County, Colorado	100%	2,603	1,161	45%	499	81	16%	7%
Bristol Bay Borough, Alaska	100%	358	190	53%	67	14	21%	7%

HOUSEHOLDS WITH ANNUAL INCOMES ABOVE \$74,999 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 706 U.S. COUNTIES WITH 100% OF RESIDENTS IN RURAL AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% rural	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Loving County, Texas	100%	31	17	55%	11	2	18%	12%
Steele County, North Dakota	100%	916	354	39%	208	31	15%	9%
Hamlin County, South Dakota	100%	2,193	790	36%	657	140	21%	18%
Borden County, Texas	100%	248	130	52%	59	14	24%	11%
McKenzie County, North Dakota	100%	3,651	1,925	53%	820	308	38%	16%
New Kent County, Virginia	100%	7,555	4,017	53%	1,886	538	29%	13%
Denali Borough, Alaska	100%	678	393	58%	70	15	21%	4%
Elbert County, Colorado	100%	8,866	5,466	62%	1,073	276	26%	5%
Sublette County, Wyoming	100%	3,197	1,832	57%	547	229	42%	13%
Aleutians West Census Area, Alaska	100%	1,218	723	59%	316	132	42%	18%
Roberts County, Texas	100%	326	182	56%	54	14	26%	8%
Skagway Municipality, Alaska	100%	423	196	46%	67	12	18%	6%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes below \$20,000		No broadband total	Less than \$20,000 with no broadband		% of cohort with no broadband
Total		45,841,752	7,151,496	16%	8,830,837	3,323,889	38%	46%
Median				16%			35%	44%
Alexandria city, Virginia	100.00%	68,663	5,031	7%	7,895	1,803	23%	36%
Arlington County, Virginia	100.00%	102,310	7,609	7%	10,482	2,800	27%	37%
Baltimore city, Maryland	100.00%	239,791	58,857	25%	73,085	32,831	45%	56%
Charlottesville city, Virginia	100.00%	18,408	3,796	21%	4,013	1,452	36%	38%
Colonial Heights city, Virginia	100.00%	7,092	1,237	17%	2,014	653	32%	53%
Denver County, Colorado	100.00%	287,262	45,498	16%	54,162	20,250	37%	45%
District of Columbia, District of Columbia	100.00%	277,985	49,176	18%	62,328	26,567	43%	54%
Fairfax city, Virginia	100.00%	8,499	563	7%	633	68	11%	12%
Falls Church city, Virginia	100.00%	5,308	316	6%	443	60	14%	19%
Harrisonburg city, Virginia	100.00%	16,848	3,975	24%	4,667	1,738	37%	44%
Hopewell city, Virginia	100.00%	9,123	2,303	25%	3,453	1,194	35%	52%
Hudson County, New Jersey	100.00%	252,352	44,676	18%	46,672	19,360	41%	43%
Manassas city, Virginia	100.00%	12,540	947	8%	1,638	470	29%	50%
Manassas Park city, Virginia	100.00%	4,778	291	6%	540	53	10%	18%
New York County, New York	100.00%	758,345	140,197	18%	137,540	64,209	47%	46%
Norfolk city, Virginia	100.00%	87,249	19,077	22%	18,383	8,136	44%	43%
Philadelphia County, Pennsylvania	100.00%	591,280	167,607	28%	179,722	92,010	51%	55%
Portsmouth city, Virginia	100.00%	36,616	6,885	19%	9,653	3,446	36%	50%
Queens County, New York	100.00%	777,904	118,706	15%	157,670	52,590	33%	44%
Richmond city, Virginia	100.00%	89,238	22,838	26%	26,235	12,394	47%	54%
Richmond County, New York	100.00%	166,150	25,672	15%	33,383	12,052	36%	47%
Salem city, Virginia	100.00%	9,997	1,351	14%	2,389	653	27%	48%
San Francisco County, California	100.00%	358,772	52,129	15%	55,702	25,140	45%	48%
Union County, New Jersey	100.00%	187,916	23,409	12%	38,658	12,612	33%	54%
Williamsburg city, Virginia	100.00%	4,649	781	17%	833	217	26%	28%
Winchester city, Virginia	100.00%	10,520	1,400	13%	3,038	852	28%	61%
St. Louis city, Missouri	100.00%	139,741	39,276	28%	45,054	22,808	51%	58%
Kings County, New York	100.00%	944,650	210,990	22%	232,753	105,072	45%	50%
Bronx County, New York	100.00%	495,356	154,937	31%	146,500	74,747	51%	48%
Roanoke city, Virginia	99.99%	42,333	10,162	24%	12,782	5,656	44%	56%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND

134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS

2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes below \$20,000		No broadband total	Less than \$20,000 with no broadband		% of cohort with no broadband
Essex County, New Jersey	99.99%	280,327	54,823	20%	66,628	28,151	42%	51%
Broward County, Florida	99.98%	675,828	111,838	17%	129,179	47,491	37%	42%
Newport News city, Virginia	99.97%	68,665	11,986	17%	15,501	5,455	35%	46%
Bristol city, Virginia	99.96%	7,418	1,923	26%	2,102	1,154	55%	60%
Cook County, Illinois	99.95%	1,956,561	343,886	18%	456,271	175,660	38%	51%
DuPage County, Illinois	99.95%	340,669	29,662	9%	44,761	11,818	26%	40%
Suffolk County, Massachusetts	99.93%	303,676	66,781	22%	58,534	28,699	49%	43%
Bergen County, New Jersey	99.90%	337,819	34,734	10%	42,587	14,001	33%	40%
Orange County, California	99.86%	1,024,976	107,338	10%	125,929	37,077	29%	35%
Ramsey County, Minnesota	99.81%	208,504	31,271	15%	37,256	13,592	36%	43%
Milwaukee County, Wisconsin	99.81%	382,027	82,290	22%	100,291	42,117	42%	51%
Nassau County, New York	99.81%	444,136	33,757	8%	55,174	14,632	27%	43%
Cobb County, Georgia	99.75%	274,361	28,426	10%	34,017	9,147	27%	32%
Hampton city, Virginia	99.75%	53,555	8,829	16%	11,192	3,835	34%	43%
DeKalb County, Georgia	99.74%	273,614	43,300	16%	51,874	17,927	35%	41%
Pinellas County, Florida	99.72%	406,871	76,111	19%	86,783	33,349	38%	44%
Alameda County, California	99.61%	569,070	67,192	12%	81,171	28,467	35%	42%
Miami-Dade County, Florida	99.60%	858,289	191,880	22%	230,406	104,664	45%	55%
Delaware County, Pennsylvania	99.54%	204,870	26,537	13%	36,498	11,635	32%	44%
Gwinnett County, Georgia	99.51%	283,256	29,252	10%	40,088	10,184	25%	35%
Cuyahoga County, Ohio	99.42%	537,621	121,762	23%	136,710	63,766	47%	52%
Broomfield County, Colorado	99.42%	25,938	1,826	7%	2,314	537	23%	29%
Orleans Parish, Louisiana	99.41%	154,895	46,021	30%	52,504	27,490	52%	60%
Marion County, Indiana	99.40%	367,215	77,388	21%	94,393	39,941	42%	52%
Middlesex County, New Jersey	99.33%	283,794	29,116	10%	46,996	13,202	28%	45%
Dallas County, Texas	99.31%	906,179	144,389	16%	213,309	72,725	34%	50%
Wayne County, Michigan	99.30%	673,143	167,112	25%	209,284	96,014	46%	57%
Rockland County, New York	99.28%	99,935	11,125	11%	21,114	6,545	31%	59%
Los Angeles County, California	99.24%	3,295,198	536,689	16%	662,177	248,777	38%	46%
Clayton County, Georgia	99.11%	91,604	18,319	20%	22,681	7,819	34%	43%
Salt Lake County, Utah	99.10%	363,058	38,650	11%	61,737	16,342	26%	42%
Davis County, Utah	99.08%	101,422	7,914	8%	11,317	2,742	24%	35%
Mecklenburg County, North Carolina	98.93%	395,503	53,802	14%	62,440	21,937	35%	41%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes below \$20,000		No broadband total	Less than \$20,000 with no broadband		% of cohort with no broadband
Fulton County, Georgia	98.92%	391,850	66,270	17%	75,023	30,254	40%	46%
Santa Clara County, California	98.92%	630,451	55,360	9%	66,904	20,865	31%	38%
Bristol County, Rhode Island	98.86%	19,521	2,532	13%	3,584	1,341	37%	53%
Fredericksburg city, Virginia	98.83%	10,419	1,668	16%	2,077	718	35%	43%
Harris County, Texas	98.79%	1,562,813	242,700	16%	337,243	115,947	34%	48%
Norfolk County, Massachusetts	98.76%	262,324	26,045	10%	33,393	10,505	31%	40%
Lake County, Illinois	98.73%	244,523	23,309	10%	32,084	9,226	29%	40%
Tarrant County, Texas	98.69%	689,921	89,903	13%	126,840	41,461	33%	46%
Multnomah County, Oregon	98.63%	318,173	52,732	17%	50,639	21,676	43%	41%
Jefferson County, Kentucky	98.63%	309,888	56,233	18%	69,150	28,006	41%	50%
Fairfax County, Virginia	98.61%	393,380	22,138	6%	31,179	7,394	24%	33%
Virginia Beach city, Virginia	98.47%	167,731	15,094	9%	22,545	5,646	25%	37%
Franklin County, Ohio	98.46%	496,337	81,159	16%	84,057	34,622	41%	43%
Arapahoe County, Colorado	98.42%	235,263	23,961	10%	32,039	9,195	29%	38%
Camden County, New Jersey	98.37%	187,012	30,751	16%	36,363	15,223	42%	50%
Jefferson Parish, Louisiana	98.23%	168,786	31,308	19%	45,657	17,251	38%	55%
Prince George's County, Maryland	98.03%	306,694	26,597	9%	51,593	10,807	21%	41%
Petersburg city, Virginia	97.89%	13,262	4,034	30%	5,086	2,328	46%	58%
Contra Costa County, California	97.87%	389,597	38,289	10%	45,939	13,459	29%	35%
Douglas County, Nevada	97.83%	20,376	2,316	11%	3,162	937	30%	40%
New Hanover County, North Carolina	97.79%	91,673	17,680	19%	16,961	6,945	41%	39%
St. Louis County, Missouri	97.73%	402,307	50,191	12%	70,659	21,914	31%	44%
Hennepin County, Minnesota	97.72%	499,104	64,381	13%	82,013	28,989	35%	45%
Allegheny County, Pennsylvania	97.51%	536,439	94,705	18%	112,553	44,608	40%	47%
Waynesboro city, Virginia	97.47%	9,128	1,948	21%	2,984	1,093	37%	56%
Orange County, Florida	97.43%	451,960	76,110	17%	75,331	28,370	38%	37%
Lynchburg city, Virginia	97.31%	28,150	6,450	23%	8,293	3,146	38%	49%
Montgomery County, Maryland	97.14%	369,242	26,544	7%	38,320	9,865	26%	37%
Duval County, Florida	97.09%	347,783	60,610	17%	75,137	29,062	39%	48%
Radford city, Virginia	97.07%	5,503	1,912	35%	1,336	647	48%	34%
Montgomery County, Pennsylvania	97.07%	312,805	28,458	9%	42,052	12,037	29%	42%
Muscogee County, Georgia	97.02%	73,179	17,509	24%	20,168	8,901	44%	51%
Middlesex County, Massachusetts	96.97%	593,784	65,181	11%	78,873	27,342	35%	42%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND

134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS

2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes below \$20,000		No broadband total	Less than \$20,000 with no broadband		% of cohort with no broadband
Fayette County, Kentucky	96.93%	127,336	24,844	20%	23,282	9,946	43%	40%
Seminole County, Florida	96.84%	161,371	22,396	14%	18,164	6,834	38%	31%
Clark County, Nevada	96.66%	749,858	114,139	15%	155,125	49,946	32%	44%
St. Lucie County, Florida	96.64%	110,043	21,077	19%	22,925	9,050	39%	43%
Davidson County, Tennessee	96.59%	273,497	43,224	16%	56,978	19,946	35%	46%
Passaic County, New Jersey	96.57%	162,440	28,189	17%	37,914	15,064	40%	53%
Maricopa County, Arizona	96.57%	1,489,533	219,152	15%	272,665	94,702	35%	43%
Mercer County, New Jersey	96.52%	129,546	17,472	13%	25,315	9,094	36%	52%
Hillsborough County, Florida	96.49%	505,845	86,425	17%	88,661	35,766	40%	41%
El Paso County, Texas	96.47%	263,200	59,459	23%	75,253	33,270	44%	56%
Macomb County, Michigan	96.47%	341,532	47,508	14%	64,458	21,547	33%	45%
Westchester County, New York	96.44%	345,885	39,589	11%	57,279	18,340	32%	46%
Adams County, Colorado	96.38%	162,508	17,788	11%	32,838	8,779	27%	49%
New Haven County, Connecticut	96.36%	327,402	48,962	15%	69,100	24,760	36%	51%
Staunton city, Virginia	96.31%	10,477	2,025	19%	2,918	1,145	39%	57%
Monmouth County, New Jersey	96.25%	232,482	22,363	10%	32,197	9,784	30%	44%
Hamilton County, Ohio	96.20%	338,267	68,601	20%	75,232	33,129	44%	48%
Summit County, Ohio	96.12%	223,021	39,763	18%	50,329	18,734	37%	47%
Honolulu County, Hawaii	96.11%	311,451	31,805	10%	50,571	14,271	28%	45%
Shelby County, Tennessee	96.09%	349,207	73,859	21%	103,183	43,484	42%	59%
Prince William County, Virginia	95.83%	139,306	7,410	5%	11,717	2,228	19%	30%
Bernalillo County, New Mexico	95.80%	263,551	51,437	20%	63,926	24,223	38%	47%
Sacramento County, California	95.80%	532,050	83,284	16%	91,497	34,316	38%	41%
San Diego County, California	95.79%	1,111,739	138,516	12%	145,309	48,104	33%	35%
Essex County, Massachusetts	95.76%	291,659	41,412	14%	50,673	19,310	38%	47%
St. Bernard Parish, Louisiana	95.75%	14,791	3,373	23%	4,679	1,612	34%	48%
Henrico County, Virginia	95.73%	126,115	14,823	12%	21,093	6,312	30%	43%
King County, Washington	95.73%	851,077	91,250	11%	98,141	33,250	34%	36%
Suffolk County, New York	95.72%	489,328	44,429	9%	69,747	18,155	26%	41%
Jackson County, Missouri	95.71%	280,174	52,003	19%	66,884	26,183	39%	50%
Palm Beach County, Florida	95.70%	543,591	83,578	15%	104,153	34,778	33%	42%
Sarasota County, Florida	95.68%	177,998	24,921	14%	32,968	9,695	29%	39%
Kane County, Illinois	95.55%	175,930	18,316	10%	25,835	7,623	30%	42%

HOUSEHOLDS WITH ANNUAL INCOMES BELOW \$20,000 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes below \$20,000		No broadband total	Less than \$20,000 with no broadband		% of cohort with no broadband
Fairfield County, Connecticut	95.42%	337,678	36,603	11%	48,586	16,104	33%	44%
Lucas County, Ohio	95.34%	178,971	41,077	23%	43,720	19,647	45%	48%
Bexar County, Texas	95.29%	627,889	106,831	17%	147,353	56,404	38%	53%
San Mateo County, California	95.23%	261,796	19,862	8%	30,507	7,884	26%	40%
Carson City, Nevada	95.16%	22,158	4,032	18%	4,887	1,905	39%	47%

HOUSEHOLDS WITH ANNUAL INCOMES ABOVE \$74,999 AS PERCENT OF ALL HOUSEHOLDS, AND AS PERCENT OF HOUSEHOLDS WITH NO BROADBAND OF ANY KIND
 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Total		45,841,752	19,555,637	43%	8,830,837	1,176,037	13%	6%
Median				40%			13%	6%
Alexandria city, Virginia	100.00%	68,663	41,379	60%	7,895	2,204	28%	5%
Arlington County, Virginia	100.00%	102,310	70,283	69%	10,482	2,884	28%	4%
Baltimore city, Maryland	100.00%	239,791	73,178	31%	73,085	7,629	10%	10%
Charlottesville city, Virginia	100.00%	18,408	6,880	37%	4,013	591	15%	9%
Colonial Heights city, Virginia	100.00%	7,092	2,222	31%	2,014	243	12%	11%
Denver County, Colorado	100.00%	287,262	117,539	41%	54,162	6,980	13%	6%
District of Columbia, District of Columbia	100.00%	277,985	142,357	51%	62,328	10,041	16%	7%
Fairfax city, Virginia	100.00%	8,499	5,542	65%	633	101	16%	2%
Falls Church city, Virginia	100.00%	5,308	3,743	71%	443	188	42%	5%
Harrisonburg city, Virginia	100.00%	16,848	4,408	26%	4,667	451	10%	10%
Hopewell city, Virginia	100.00%	9,123	2,401	26%	3,453	562	16%	23%
Hudson County, New Jersey	100.00%	252,352	108,594	43%	46,672	5,873	13%	5%
Manassas city, Virginia	100.00%	12,540	6,540	52%	1,638	299	18%	5%
Manassas Park city, Virginia	100.00%	4,778	2,598	54%	540	231	43%	9%
New York County, New York	100.00%	758,345	392,740	52%	137,540	23,694	17%	6%
Norfolk city, Virginia	100.00%	87,249	25,040	29%	18,383	1,720	9%	7%
Philadelphia County, Pennsylvania	100.00%	591,280	156,545	26%	179,722	13,177	7%	8%
Portsmouth city, Virginia	100.00%	36,616	10,235	28%	9,653	1,025	11%	10%
Queens County, New York	100.00%	777,904	323,736	42%	157,670	27,339	17%	8%
Richmond city, Virginia	100.00%	89,238	24,744	28%	26,235	2,109	8%	9%
Richmond County, New York	100.00%	166,150	84,154	51%	33,383	7,059	21%	8%
Salem city, Virginia	100.00%	9,997	3,332	33%	2,389	343	14%	10%
San Francisco County, California	100.00%	358,772	209,706	58%	55,702	9,513	17%	5%
Union County, New Jersey	100.00%	187,916	92,096	49%	38,658	6,919	18%	8%
Williamsburg city, Virginia	100.00%	4,649	1,655	36%	833	121	15%	7%
Winchester city, Virginia	100.00%	10,520	3,492	33%	3,038	378	12%	11%
St. Louis city, Missouri	100.00%	139,741	33,354	24%	45,054	2,697	6%	8%
Kings County, New York	100.00%	944,650	350,638	37%	232,753	31,342	13%	9%
Bronx County, New York	100.00%	495,356	114,794	23%	146,500	13,237	9%	12%
Roanoke city, Virginia	99.99%	42,333	9,819	23%	12,782	991	8%	10%

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 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Essex County, New Jersey	99.99%	280,327	112,322	40%	66,628	8,010	12%	7%
Broward County, Florida	99.98%	675,828	245,475	36%	129,179	16,093	12%	7%
Newport News city, Virginia	99.97%	68,665	21,004	31%	15,501	1,594	10%	8%
Bristol city, Virginia	99.96%	7,418	1,357	18%	2,102	108	5%	8%
Cook County, Illinois	99.95%	1,956,561	789,548	40%	456,271	60,754	13%	8%
DuPage County, Illinois	99.95%	340,669	189,186	56%	44,761	9,516	21%	5%
Suffolk County, Massachusetts	99.93%	303,676	128,009	42%	58,534	7,234	12%	6%
Bergen County, New Jersey	99.90%	337,819	196,938	58%	42,587	8,544	20%	4%
Orange County, California	99.86%	1,024,976	550,536	54%	125,929	25,869	21%	5%
Ramsey County, Minnesota	99.81%	208,504	83,298	40%	37,256	4,707	13%	6%
Milwaukee County, Wisconsin	99.81%	382,027	111,948	29%	100,291	8,289	8%	7%
Nassau County, New York	99.81%	444,136	287,304	65%	55,174	14,291	26%	5%
Cobb County, Georgia	99.75%	274,361	130,904	48%	34,017	5,530	16%	4%
Hampton city, Virginia	99.75%	53,555	17,310	32%	11,192	1,112	10%	6%
DeKalb County, Georgia	99.74%	273,614	101,336	37%	51,874	5,681	11%	6%
Pinellas County, Florida	99.72%	406,871	128,562	32%	86,783	9,332	11%	7%
Alameda County, California	99.61%	569,070	316,281	56%	81,171	14,247	18%	5%
Miami-Dade County, Florida	99.60%	858,289	262,501	31%	230,406	22,752	10%	9%
Delaware County, Pennsylvania	99.54%	204,870	95,785	47%	36,498	5,024	14%	5%
Gwinnett County, Georgia	99.51%	283,256	121,710	43%	40,088	5,598	14%	5%
Cuyahoga County, Ohio	99.42%	537,621	166,354	31%	136,710	10,401	8%	6%
Broomfield County, Colorado	99.42%	25,938	14,617	56%	2,314	542	23%	4%
Orleans Parish, Louisiana	99.41%	154,895	42,503	27%	52,504	4,254	8%	10%
Marion County, Indiana	99.40%	367,215	101,590	28%	94,393	7,011	7%	7%
Middlesex County, New Jersey	99.33%	283,794	154,269	54%	46,996	10,037	21%	7%
Dallas County, Texas	99.31%	906,179	317,730	35%	213,309	22,870	11%	7%
Wayne County, Michigan	99.30%	673,143	191,483	28%	209,284	18,038	9%	9%
Rockland County, New York	99.28%	99,935	56,433	56%	21,114	4,439	21%	8%
Los Angeles County, California	99.24%	3,295,198	1,366,318	41%	662,177	93,209	14%	7%
Clayton County, Georgia	99.11%	91,604	21,115	23%	22,681	2,044	9%	10%
Salt Lake County, Utah	99.10%	363,058	162,585	45%	61,737	12,510	20%	8%
Davis County, Utah	99.08%	101,422	51,509	51%	11,317	2,390	21%	5%
Mecklenburg County, North Carolina	98.93%	395,503	162,621	41%	62,440	7,232	12%	4%

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 134 U.S. COUNTIES WITH 95% OF RESIDENTS IN URBANIZED AREAS PER 2010 DECENNIAL CENSUS
 2013-17 American Community Survey 5-Year Estimates, Table B28004

Geography	% urbanized	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Fulton County, Georgia	98.92%	391,850	164,421	42%	75,023	8,535	11%	5%
Santa Clara County, California	98.92%	630,451	403,879	64%	66,904	15,465	23%	4%
Bristol County, Rhode Island	98.86%	19,521	9,722	50%	3,584	473	13%	5%
Fredericksburg city, Virginia	98.83%	10,419	4,175	40%	2,077	259	12%	6%
Harris County, Texas	98.79%	1,562,813	607,509	39%	337,243	39,565	12%	7%
Norfolk County, Massachusetts	98.76%	262,324	157,695	60%	33,393	6,512	20%	4%
Lake County, Illinois	98.73%	244,523	132,171	54%	32,084	5,705	18%	4%
Tarrant County, Texas	98.69%	689,921	286,580	42%	126,840	17,069	13%	6%
Multnomah County, Oregon	98.63%	318,173	129,010	41%	50,639	5,285	10%	4%
Jefferson County, Kentucky	98.63%	309,888	105,277	34%	69,150	5,876	8%	6%
Fairfax County, Virginia	98.61%	393,380	278,112	71%	31,179	9,718	31%	3%
Virginia Beach city, Virginia	98.47%	167,731	78,418	47%	22,545	4,026	18%	5%
Franklin County, Ohio	98.46%	496,337	182,096	37%	84,057	8,016	10%	4%
Arapahoe County, Colorado	98.42%	235,263	109,437	47%	32,039	5,621	18%	5%
Camden County, New Jersey	98.37%	187,012	82,072	44%	36,363	4,572	13%	6%
Jefferson Parish, Louisiana	98.23%	168,786	55,940	33%	45,657	5,279	12%	9%
Prince George's County, Maryland	98.03%	306,694	160,337	52%	51,593	12,518	24%	8%
Petersburg city, Virginia	97.89%	13,262	2,689	20%	5,086	431	8%	16%
Contra Costa County, California	97.87%	389,597	221,930	57%	45,939	9,837	21%	4%
Douglas County, Nevada	97.83%	20,376	7,859	39%	3,162	475	15%	6%
New Hanover County, North Carolina	97.79%	91,673	31,047	34%	16,961	1,576	9%	5%
St. Louis County, Missouri	97.73%	402,307	170,096	42%	70,659	8,918	13%	5%
Hennepin County, Minnesota	97.72%	499,104	237,160	48%	82,013	12,043	15%	5%
Allegheny County, Pennsylvania	97.51%	536,439	202,126	38%	112,553	10,691	9%	5%
Waynesboro city, Virginia	97.47%	9,128	2,191	24%	2,984	317	11%	14%
Orange County, Florida	97.43%	451,960	146,652	32%	75,331	7,748	10%	5%
Lynchburg city, Virginia	97.31%	28,150	6,932	25%	8,293	848	10%	12%
Montgomery County, Maryland	97.14%	369,242	235,299	64%	38,320	9,086	24%	4%
Duval County, Florida	97.09%	347,783	113,547	33%	75,137	7,209	10%	6%
Radford city, Virginia	97.07%	5,503	1,165	21%	1,336	104	8%	9%
Montgomery County, Pennsylvania	97.07%	312,805	173,029	55%	42,052	6,702	16%	4%
Muscogee County, Georgia	97.02%	73,179	19,242	26%	20,168	1,534	8%	8%
Middlesex County, Massachusetts	96.97%	593,784	347,971	59%	78,873	13,701	17%	4%

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Geography	% urbanized	Total households:	Households with incomes above \$74,999		No broadband total	More than \$74,999 with no broadband		% of cohort with no broadband
Fayette County, Kentucky	96.93%	127,336	44,491	35%	23,282	2,355	10%	5%
Seminole County, Florida	96.84%	161,371	64,746	40%	18,164	2,310	13%	4%
Clark County, Nevada	96.66%	749,858	259,979	35%	155,125	20,980	14%	8%
St. Lucie County, Florida	96.64%	110,043	30,721	28%	22,925	2,166	9%	7%
Davidson County, Tennessee	96.59%	273,497	94,040	34%	56,978	6,610	12%	7%
Passaic County, New Jersey	96.57%	162,440	71,225	44%	37,914	5,067	13%	7%
Maricopa County, Arizona	96.57%	1,489,533	576,535	39%	272,665	32,648	12%	6%
Mercer County, New Jersey	96.52%	129,546	66,126	51%	25,315	4,295	17%	6%
Hillsborough County, Florida	96.49%	505,845	179,305	35%	88,661	9,017	10%	5%
El Paso County, Texas	96.47%	263,200	66,960	25%	75,253	5,262	7%	8%
Macomb County, Michigan	96.47%	341,532	128,692	38%	64,458	7,035	11%	5%
Westchester County, New York	96.44%	345,885	195,928	57%	57,279	10,729	19%	5%
Adams County, Colorado	96.38%	162,508	68,056	42%	32,838	5,025	15%	7%
New Haven County, Connecticut	96.36%	327,402	143,808	44%	69,100	9,943	14%	7%
Staunton city, Virginia	96.31%	10,477	3,187	30%	2,918	303	10%	10%
Monmouth County, New Jersey	96.25%	232,482	134,965	58%	32,197	5,601	17%	4%
Hamilton County, Ohio	96.20%	338,267	119,233	35%	75,232	6,669	9%	6%
Summit County, Ohio	96.12%	223,021	77,026	35%	50,329	4,536	9%	6%
Honolulu County, Hawaii	96.11%	311,451	165,858	53%	50,571	11,810	23%	7%
Shelby County, Tennessee	96.09%	349,207	110,749	32%	103,183	9,761	9%	9%
Prince William County, Virginia	95.83%	139,306	90,050	65%	11,717	3,357	29%	4%
Bernalillo County, New Mexico	95.80%	263,551	86,732	33%	63,926	6,740	11%	8%
Sacramento County, California	95.80%	532,050	213,809	40%	91,497	11,668	13%	5%
San Diego County, California	95.79%	1,111,739	526,619	47%	145,309	22,244	15%	4%
Essex County, Massachusetts	95.76%	291,659	143,059	49%	50,673	7,282	14%	5%
St. Bernard Parish, Louisiana	95.75%	14,791	4,164	28%	4,679	642	14%	15%
Henrico County, Virginia	95.73%	126,115	55,898	44%	21,093	3,289	16%	6%
King County, Washington	95.73%	851,077	464,549	55%	98,141	17,060	17%	4%
Suffolk County, New York	95.72%	489,328	289,965	59%	69,747	19,353	28%	7%
Jackson County, Missouri	95.71%	280,174	90,432	32%	66,884	6,245	9%	7%
Palm Beach County, Florida	95.70%	543,591	209,969	39%	104,153	15,243	15%	7%
Sarasota County, Florida	95.68%	177,998	63,593	36%	32,968	5,721	17%	9%
Kane County, Illinois	95.55%	175,930	87,801	50%	25,835	4,403	17%	5%

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Fairfield County, Connecticut	95.42%	337,678	191,115	57%	48,586	9,154	19%	5%
Lucas County, Ohio	95.34%	178,971	52,037	29%	43,720	3,177	7%	6%
Bexar County, Texas	95.29%	627,889	218,720	35%	147,353	15,929	11%	7%
San Mateo County, California	95.23%	261,796	168,775	64%	30,507	6,852	22%	4%
Carson City, Nevada	95.16%	22,158	6,749	30%	4,887	639	13%	9%