

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
United States	54,560.0	17%	90.9		32,628.3	53%	17.9	21,931.7	8%	2,402.0
Alabama	1,701.3	35%	96.4		1,113.2	56%	40.9	588.1	20%	1,313.1
Autauga	14.7	25%	97.4	\$ 24,571	14.4	60%	42.0	0.4	1%	1,718.7
Baldwin	62.8	32%	124.9	\$ 26,766	39.5	48%	55.6	23.3	20%	1,093.7
Barbour	25.4	95%	30.3	\$ 16,829	16.8	92%	20.8	8.5	100%	1,268.7
Bibb	23.3	99%	37.7	\$ 17,427	15.8	99%	25.8	7.5	99%	1,035.4
Blount	45.1	76%	91.9	\$ 20,730	39.2	74%	83.3	5.9	100%	1,400.9
Bullock	10.6	100%	17.1	\$ 18,628	5.3	99%	8.7	5.3	100%	1,080.1
Butler	20.4	99%	26.6	\$ 17,403	14.4	98%	19.0	6.0	100%	1,478.0
Calhoun	88.4	73%	198.7	\$ 20,828	31.6	78%	77.5	56.7	71%	982.7
Chambers	7.6	23%	55.4	\$ 19,291	7.6	47%	28.0	-	0%	802.0
Cherokee	20.5	78%	47.6	\$ 22,030	19.4	86%	41.5	1.1	29%	373.5
Chilton	40.3	90%	64.6	\$ 20,701	35.1	90%	56.7	5.2	89%	874.1
Choctaw	13.0	100%	14.3	\$ 20,323	13.0	100%	14.3			
Clarke	14.7	59%	20.1	\$ 18,979	14.4	76%	15.4	0.4	6%	842.7
Clay	8.7	63%	22.7	\$ 18,694	8.7	63%	22.7			
Cleburne	15.2	100%	27.1	\$ 19,108	15.2	100%	27.1			
Coffee	22.5	43%	76.7	\$ 23,380	12.3	51%	37.1	10.1	37%	1,288.4
Colbert	14.7	27%	91.1	\$ 21,572	13.9	60%	41.0	0.9	3%	1,160.8
Conecuh	8.7	68%	15.1	\$ 15,605	8.6	83%	12.2	0.0	1%	1,127.8
Coosa	3.5	31%	17.2	\$ 18,493	3.5	31%	17.2			
Covington	37.5	100%	36.5	\$ 20,391	26.5	100%	25.9	11.1	100%	1,108.2
Crenshaw	7.1	52%	22.7	\$ 21,343	7.1	52%	22.7			
Cullman	24.2	30%	110.6	\$ 20,760	24.2	41%	83.6	-	0%	884.9
Dale	17.3	34%	90.5	\$ 22,685	12.1	47%	48.6	5.2	21%	834.6
Dallas	9.1	21%	43.8	\$ 17,245	9.1	48%	19.9	-	0%	1,404.9
DeKalb	15.8	22%	93.7	\$ 18,149	15.8	24%	84.9	0.0	0%	1,661.6
Elmore	79.2	95%	134.9	\$ 23,856	43.6	99%	75.5	35.6	90%	1,173.5
Escambia	16.1	42%	40.0	\$ 16,540	15.3	63%	25.8	0.8	6%	1,221.9
Etowah	9.4	9%	194.6	\$ 20,204	8.5	22%	85.0	0.9	1%	877.8
Fayette	16.6	99%	26.6	\$ 18,494	13.4	100%	21.5	3.2	98%	1,168.0
Franklin	11.9	37%	50.2	\$ 18,888	11.9	54%	35.1	-	0%	1,411.0
Geneva	26.5	100%	46.3	\$ 20,199	23.8	100%	41.8	2.7	100%	1,131.4
Greene	8.6	100%	13.3	\$ 14,930	8.6	100%	13.3			
Hale	8.6	56%	23.6	\$ 18,812	8.6	63%	21.1	-	0%	751.3
Henry	9.8	56%	30.9	\$ 21,924	9.6	63%	27.2	0.2	10%	1,307.9
Houston	28.3	27%	182.5	\$ 23,316	18.5	51%	68.8	9.8	14%	1,297.9
Jackson	18.3	35%	48.5	\$ 20,486	18.3	45%	37.8	-	0%	922.0
Jefferson	220.2	34%	589.0	\$ 26,906	28.6	44%	91.7	191.5	32%	1,468.0
Lamar	9.6	68%	23.1	\$ 19,026	9.6	68%	23.1			
Lauderdale	35.1	37%	140.6	\$ 23,510	30.2	66%	72.7	4.9	10%	1,321.3
Lawrence	14.9	44%	49.2	\$ 20,181	14.9	48%	45.1	-	0%	886.5
Lee	44.1	30%	244.8	\$ 23,506	16.0	39%	76.4	28.1	26%	1,392.2

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Limestone	16.9	19%	158.7	\$ 25,020	10.1	20%	97.9	6.8	18%	971.3
Lowndes	10.5	99%	14.7	\$ 18,368	10.5	99%	14.7			
Macon	7.7	38%	33.7	\$ 16,826	7.7	66%	19.4	-	0%	915.6
Madison	76.3	22%	441.6	\$ 31,933	18.1	32%	95.8	58.2	20%	1,470.9
Marengo	18.3	90%	20.8	\$ 22,072	12.0	86%	14.5	6.2	100%	1,233.0
Marion	27.4	90%	40.9	\$ 19,576	24.0	89%	36.5	3.4	100%	723.6
Marshall	9.5	10%	170.6	\$ 20,382	9.5	19%	97.3	-	0%	1,085.3
Mobile	47.6	11%	341.3	\$ 22,501	30.1	35%	86.4	17.5	5%	1,461.1
Monroe	9.8	44%	21.8	\$ 15,749	9.7	55%	17.4	0.1	2%	906.0
Montgomery	12.8	6%	294.6	\$ 24,975	11.4	48%	35.4	1.5	1%	1,914.3
Morgan	15.9	13%	210.5	\$ 23,764	15.8	34%	89.4	0.1	0%	1,222.8
Perry	10.1	100%	14.0	\$ 13,716	10.1	100%	14.0			
Pickens	18.9	99%	21.8	\$ 17,153	18.9	99%	21.8			
Pike	5.7	17%	49.6	\$ 19,715	5.7	34%	25.5	-	0%	1,349.1
Randolph	14.0	61%	39.5	\$ 19,830	14.0	75%	32.5	-	0%	981.5
Russell	53.0	98%	84.6	\$ 19,678	18.8	98%	31.0	34.2	98%	1,477.2
St. Clair	52.8	59%	142.8	\$ 23,872	41.1	63%	107.4	11.7	47%	1,034.3
Shelby	22.1	10%	270.5	\$ 33,313	17.7	38%	70.9	4.4	3%	1,313.5
Sumter	8.7	65%	14.7	\$ 14,156	8.7	65%	14.7			
Talladega	30.0	36%	111.6	\$ 19,410	26.7	59%	65.4	3.2	9%	915.1
Tallapoosa	8.0	19%	57.8	\$ 21,434	6.7	22%	43.4	1.3	12%	1,024.6
Tuscaloosa	27.4	13%	154.6	\$ 22,637	16.9	32%	43.0	10.4	7%	1,568.5
Walker	21.9	34%	82.3	\$ 20,698	21.9	46%	62.8	-	0%	681.9
Washington	15.8	92%	16.0	\$ 20,395	15.8	92%	16.0			
Wilcox	8.1	73%	12.5	\$ 13,379	8.1	73%	12.5			
Winston	23.9	99%	39.4	\$ 18,995	20.2	99%	33.6	3.6	100%	1,016.6
<b>Alaska</b>	<b>284.8</b>	<b>38%</b>	<b>1.3</b>		<b>198.8</b>	<b>81%</b>	<b>0.4</b>	<b>86.0</b>	<b>17%</b>	<b>1,896.8</b>
Aleutians East	1.9	100%	0.3	\$ 26,535	1.9	100%	0.3			
Aleutians West	4.0	100%	0.9	\$ 31,790	4.0	100%	0.9			
Anchorage	51.4	17%	179.6	\$ 36,214	9.8	75%	8.2	41.6	14%	2,892.9
Bethel	16.2	100%	0.4	\$ 18,497	11.7	100%	0.3	4.5	100%	1,844.2
Bristol Bay	0.9	100%	1.8	\$ 37,024	0.9	100%	1.8			
Denali	1.8	100%	0.1	\$ 35,295	1.8	100%	0.1			
Dillingham	4.4	100%	0.2	\$ 21,498	4.4	100%	0.2			
Fairbanks North Sta	19.4	19%	14.1	\$ 32,143	19.0	58%	4.5	0.4	1%	1,144.5
Haines	2.6	100%	1.1	\$ 31,096	2.6	100%	1.1			
Hoonah-Angoon	2.1	100%	0.3	\$ 28,806	2.1	100%	0.3			
Juneau	2.7	9%	11.9	\$ 37,558	2.7	40%	2.6	-	0%	1,790.1
Kenai Peninsula	50.0	87%	3.6	\$ 31,256	38.2	84%	2.8	11.9	100%	947.3
Ketchikan Gateway	0.0	0%	2.9	\$ 31,589	0.0	1%	0.7	-	0%	1,868.2
Kodiak Island	12.9	100%	2.0	\$ 28,562	3.0	100%	0.5	9.9	100%	2,862.7
Lake and Peninsula	1.6	100%	0.1	\$ 21,616	1.6	100%	0.1			
Matanuska-Susitna	35.6	35%	4.1	\$ 29,534	35.1	69%	2.1	0.4	1%	963.6

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Nome	8.5	100%	0.4	\$ 20,271	5.3	100%	0.2	3.2	100%	3,079.3
North Slope	10.1	100%	0.1	\$ 46,457	6.3	100%	0.1	3.8	100%	4,755.7
Northwest Arctic	7.8	100%	0.2	\$ 21,461	4.5	100%	0.1	3.3	100%	3,496.1
Petersburg	3.8	100%	1.1	\$ 34,183	3.8	100%	1.1			
Prince of Wales-Hyd	5.3	100%	1.4	\$ 24,581	5.3	100%	1.4			
Sitka	9.0	100%	3.2	\$ 32,521	1.9	100%	0.7	7.2	100%	1,763.8
Skagway	1.0	100%	2.2	\$ 37,139	1.0	100%	2.2			
Southeast Fairbanks	6.9	95%	0.3	\$ 29,437	6.9	95%	0.3			
Valdez-Cordova	9.1	100%	0.3	\$ 32,579	9.1	100%	0.3			
Wade Hampton	7.8	100%	0.5	\$ 11,210	7.8	100%	0.5			
Wrangell	1.9	100%	0.7	\$ 28,474	1.9	100%	0.7			
Yakutat	0.6	100%	0.1	\$ 34,317	0.6	100%	0.1			
Yukon-Koyukuk	5.3	100%	0.0	\$ 19,729	5.3	100%	0.0			
<b>Arizona</b>	<b>1,162.2</b>	<b>17%</b>	<b>59.4</b>		<b>540.1</b>	<b>80%</b>	<b>6.0</b>	<b>622.1</b>	<b>10%</b>	<b>2,780.3</b>
Apache	66.9	94%	6.3	\$ 12,709	50.2	97%	4.7	16.6	87%	1,109.3
Cochise	39.6	29%	21.9	\$ 23,608	32.9	69%	7.8	6.7	8%	2,012.7
Coconino	103.7	76%	7.3	\$ 23,382	37.7	90%	2.2	66.0	69%	2,000.0
Gila	43.8	82%	11.2	\$ 20,792	19.3	88%	4.6	24.5	78%	1,617.4
Graham	31.2	80%	8.4	\$ 17,168	16.9	93%	3.9	14.3	69%	1,483.9
Greenlee	7.7	90%	4.6	\$ 20,516	3.8	100%	2.1	3.8	82%	1,375.1
La Paz	19.9	98%	4.5	\$ 22,200	10.9	98%	2.5	8.9	97%	1,530.4
Maricopa	112.8	3%	438.1	\$ 27,256	62.9	64%	12.2	49.9	1%	3,289.1
Mohave	102.4	48%	15.9	\$ 20,833	42.1	86%	3.7	60.4	37%	1,742.8
Navajo	97.4	89%	11.0	\$ 16,626	56.6	97%	5.9	40.7	80%	1,187.3
Pima	77.1	8%	110.8	\$ 25,269	46.0	60%	8.7	31.2	3%	2,376.2
Pinal	116.8	27%	81.6	\$ 20,910	68.9	78%	16.9	47.9	14%	2,913.2
Santa Cruz	11.5	23%	40.4	\$ 17,664	8.9	73%	10.1	2.6	7%	1,414.5
Yavapai	165.8	75%	27.4	\$ 25,186	63.5	89%	8.9	102.3	68%	1,631.9
Yuma	165.8	80%	37.6	\$ 18,840	19.4	94%	3.8	146.4	78%	2,717.3
<b>Arkansas</b>	<b>1,751.5</b>	<b>59%</b>	<b>57.5</b>		<b>1,083.8</b>	<b>84%</b>	<b>25.3</b>	<b>667.7</b>	<b>39%</b>	<b>1,553.4</b>
Arkansas	18.2	100%	18.5	\$ 23,045	6.2	100%	6.3	12.1	100%	1,645.1
Ashley	21.0	100%	22.7	\$ 19,761	10.8	100%	11.9	10.1	100%	942.6
Baxter	38.6	91%	76.9	\$ 21,334	27.0	96%	52.0	11.7	81%	1,308.4
Benton	24.2	10%	289.3	\$ 26,715	24.1	41%	81.4	0.1	0%	1,472.5
Boone	14.9	39%	64.1	\$ 22,160	14.9	63%	40.8	-	0%	1,268.0
Bradley	11.1	100%	17.1	\$ 19,386	5.3	100%	8.3	5.8	100%	935.7
Calhoun	5.2	100%	8.2	\$ 17,763	5.2	100%	8.2			
Carroll	12.9	46%	44.4	\$ 20,637	12.9	63%	32.7	-	0%	1,314.8
Chicot	11.0	100%	17.0	\$ 16,538	6.0	100%	9.4	4.9	100%	1,257.8
Clark	21.8	95%	26.4	\$ 17,960	12.3	100%	14.3	9.5	90%	1,823.4
Clay	15.4	100%	24.0	\$ 18,509	9.0	100%	14.1	6.4	100%	1,557.2
Cleburne	25.9	98%	47.8	\$ 23,044	19.9	100%	36.3	6.0	92%	1,378.4
Cleveland	8.7	100%	14.5	\$ 20,622	8.7	100%	14.5			

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Columbia	21.7	91%	31.3	\$ 19,439	13.6	99%	18.0	8.2	79%	1,374.1
Conway	20.8	96%	39.0	\$ 20,040	14.8	97%	27.8	6.0	95%	1,113.6
Craighead	42.1	42%	143.5	\$ 23,138	15.4	48%	48.6	26.8	39%	1,479.3
Crawford	11.6	18%	109.3	\$ 19,477	11.6	35%	58.2	0.0	0%	1,607.1
Crittenden	7.7	15%	83.7	\$ 19,665	5.7	58%	16.7	2.0	5%	1,798.3
Cross	9.4	55%	28.0	\$ 18,701	6.6	69%	15.7	2.7	36%	1,631.4
Dallas	7.6	100%	11.4	\$ 16,838	4.0	100%	6.1	3.6	100%	859.1
Desha	12.1	100%	15.8	\$ 19,822	3.7	100%	4.9	8.4	100%	1,463.2
Drew	18.3	100%	22.2	\$ 17,057	8.7	100%	10.7	9.6	100%	987.5
Faulkner	58.1	47%	189.2	\$ 24,401	44.6	95%	77.4	13.5	18%	1,693.8
Franklin	18.0	99%	29.8	\$ 19,135	14.8	99%	24.7	3.2	100%	1,235.7
Fulton	12.3	100%	19.9	\$ 19,326	11.5	100%	18.6	0.8	100%	1,082.3
Garland	98.5	100%	145.4	\$ 23,170	36.6	100%	58.7	61.9	100%	1,151.7
Grant	18.2	100%	28.9	\$ 23,239	13.6	100%	21.7	4.6	100%	1,337.1
Greene	43.6	100%	75.5	\$ 19,652	17.9	100%	32.1	25.7	100%	1,295.0
Hempstead	22.2	100%	30.6	\$ 17,376	12.4	100%	17.2	9.8	100%	1,323.3
Hot Spring	33.4	99%	54.8	\$ 19,286	21.9	99%	36.6	11.5	100%	1,207.5
Howard	13.5	100%	22.9	\$ 18,707	9.1	100%	15.5	4.4	100%	1,307.1
Independence	34.2	92%	48.8	\$ 20,289	23.6	93%	33.8	10.6	90%	1,281.6
Izard	13.6	100%	23.5	\$ 18,040	13.6	100%	23.5			
Jackson	16.2	92%	27.8	\$ 15,609	10.1	88%	18.4	6.1	100%	1,341.4
Jefferson	74.5	100%	85.7	\$ 19,353	23.1	100%	27.7	51.5	100%	1,386.4
Johnson	25.6	97%	40.1	\$ 19,366	18.0	96%	28.7	7.7	99%	1,146.7
Lafayette	7.2	100%	13.7	\$ 17,212	7.2	100%	13.7			
Lawrence	17.0	99%	29.1	\$ 15,971	10.8	100%	18.6	6.1	98%	1,682.6
Lee	9.6	100%	16.0	\$ 12,529	6.1	100%	10.2	3.5	100%	1,633.0
Lincoln	13.8	100%	24.6	\$ 15,023	13.8	100%	24.6			
Little River	12.9	100%	24.2	\$ 19,880	8.8	100%	16.6	4.1	100%	1,155.5
Logan	22.1	100%	31.2	\$ 19,046	15.9	100%	22.5	6.3	100%	1,358.4
Lonoke	73.7	100%	95.6	\$ 23,218	32.3	100%	43.5	41.4	100%	1,404.0
Madison	16.3	100%	19.5	\$ 18,754	16.3	100%	19.5			
Marion	16.1	96%	28.1	\$ 18,188	16.1	96%	28.1			
Miller	44.4	100%	71.0	\$ 20,636	18.1	100%	29.9	26.3	100%	1,305.3
Mississippi	8.5	19%	49.7	\$ 18,905	7.7	47%	18.4	0.8	3%	1,913.9
Monroe	7.4	100%	12.1	\$ 16,939	5.1	100%	8.4	2.3	100%	1,107.0
Montgomery	9.5	100%	12.2	\$ 19,021	9.5	100%	12.2			
Nevada	8.6	100%	13.8	\$ 18,695	5.9	100%	9.6	2.6	100%	1,408.9
Newton	7.9	97%	9.9	\$ 17,884	7.9	97%	9.9			
Ouachita	24.8	100%	33.8	\$ 18,975	13.8	100%	19.2	11.0	100%	923.5
Perry	10.4	100%	18.9	\$ 22,047	10.4	100%	18.9			
Phillips	20.1	100%	28.8	\$ 16,830	9.6	100%	13.9	10.5	100%	1,706.7
Pike	11.3	100%	18.8	\$ 18,377	11.3	100%	18.8			
Poinsett	4.7	19%	31.9	\$ 16,919	4.7	28%	22.5	-	0%	1,838.1
Polk	20.6	100%	24.1	\$ 19,116	15.3	100%	17.9	5.3	100%	1,126.8

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Pope	58.5	91%	79.2	\$ 19,918	33.6	97%	44.0	24.9	84%	1,362.8
Prairie	8.3	100%	12.8	\$ 18,137	8.3	100%	12.8			
Pulaski	59.6	15%	512.5	\$ 27,414	28.5	60%	81.7	31.1	9%	1,920.8
Randolph	16.7	94%	27.3	\$ 18,871	11.7	98%	18.3	5.0	84%	1,961.0
St. Francis	27.5	100%	43.5	\$ 15,511	13.7	99%	21.9	13.8	100%	2,374.2
Saline	97.2	84%	159.4	\$ 25,962	39.4	97%	61.1	57.8	77%	1,256.0
Scott	10.8	96%	12.6	\$ 18,934	7.5	95%	9.0	3.3	100%	1,271.7
Searcy	8.1	100%	12.2	\$ 16,731	8.1	100%	12.2			
Sebastian	6.3	5%	242.9	\$ 23,222	6.3	24%	55.7	0.0	0%	1,850.3
Sevier	17.6	100%	31.2	\$ 16,021	11.1	100%	19.8	6.5	100%	1,556.3
Sharp	17.1	100%	28.4	\$ 16,714	13.7	100%	23.0	3.4	100%	504.0
Stone	12.7	100%	20.9	\$ 17,403	12.7	100%	20.9			
Union	35.7	89%	38.7	\$ 20,718	20.3	92%	21.5	15.4	85%	1,201.7
Van Buren	17.6	100%	24.8	\$ 18,782	17.6	100%	24.8			
Washington	19.9	9%	231.8	\$ 23,264	19.9	38%	61.2	0.0	0%	2,189.0
White	80.4	100%	77.7	\$ 21,793	43.6	100%	43.4	36.8	100%	1,223.4
Woodruff	6.6	100%	11.3	\$ 19,087	6.6	100%	11.3			
Yell	21.8	97%	24.2	\$ 16,992	17.5	99%	19.1	4.3	90%	1,872.7
<b>California</b>	<b>2,601.4</b>	<b>7%</b>	<b>246.1</b>		<b>1,266.4</b>	<b>67%</b>	<b>12.8</b>	<b>1,334.9</b>	<b>4%</b>	<b>4,434.8</b>
Alameda	30.0	2%	2,072.9	\$ 35,763	2.9	53%	11.7	27.1	2%	5,627.4
Alpine	1.1	95%	1.5	\$ 25,527	1.1	95%	1.5			
Amador	28.8	75%	64.6	\$ 27,347	20.7	89%	39.5	8.1	53%	1,977.8
Butte	25.0	11%	136.7	\$ 23,787	22.2	53%	26.8	2.8	2%	2,155.6
Calaveras	20.0	43%	45.7	\$ 29,329	19.7	56%	34.7	0.3	2%	1,119.8
Colusa	4.3	19%	19.3	\$ 21,579	4.1	65%	5.5	0.2	1%	3,212.8
Contra Costa	22.1	2%	1,502.4	\$ 38,219	2.4	34%	17.1	19.7	2%	3,495.0
Del Norte	3.4	11%	30.2	\$ 19,072	3.4	34%	10.2	-	0%	1,707.3
El Dorado	40.1	22%	109.0	\$ 34,884	38.1	60%	39.1	1.9	2%	1,624.6
Fresno	110.7	11%	163.6	\$ 20,208	82.8	80%	18.0	27.8	3%	4,076.1
Glenn	8.9	31%	21.7	\$ 22,148	7.9	67%	9.0	1.1	6%	1,991.4
Humboldt	85.4	62%	38.4	\$ 23,540	35.1	86%	11.5	50.3	52%	2,118.3
Imperial	28.6	15%	44.5	\$ 16,763	24.2	79%	7.4	4.4	3%	3,656.1
Inyo	18.4	100%	1.8	\$ 27,441	8.6	100%	0.8	9.8	100%	2,301.7
Kern	122.9	14%	110.6	\$ 20,295	67.8	77%	11.1	55.1	7%	3,688.9
Kings	45.8	29%	115.2	\$ 18,429	10.1	62%	12.0	35.7	25%	3,647.9
Lake	7.6	11%	53.0	\$ 21,537	6.6	32%	16.6	1.0	2%	1,734.9
Lassen	35.6	100%	7.8	\$ 19,931	25.2	100%	5.6	10.3	100%	1,939.9
Los Angeles	102.3	1%	2,446.8	\$ 27,749	28.8	48%	22.7	73.5	1%	6,936.0
Madera	52.7	33%	74.9	\$ 17,847	48.0	93%	24.6	4.8	4%	2,738.0
Marin	13.0	5%	489.0	\$ 56,791	7.8	47%	38.3	5.2	2%	2,940.6
Mariposa	18.4	100%	12.7	\$ 26,988	18.4	100%	12.7			
Mendocino	30.5	34%	25.5	\$ 23,306	27.7	68%	11.7	2.8	6%	1,683.7
Merced	29.8	11%	139.2	\$ 18,177	24.5	66%	20.0	5.3	2%	3,313.1

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Modoc	9.6	100%	2.5	\$ 21,200	6.8	100%	1.7	2.8	100%	1,451.2
Mono	14.9	100%	4.9	\$ 28,046	6.4	100%	2.1	8.5	100%	2,554.8
Monterey	136.8	32%	129.0	\$ 24,775	26.5	70%	12.0	110.3	29%	3,607.3
Napa	4.5	3%	186.7	\$ 34,795	4.2	25%	23.4	0.3	0%	3,020.8
Nevada	41.5	42%	104.0	\$ 32,346	27.1	64%	46.2	14.4	25%	1,229.1
Orange	9.4	0%	3,867.0	\$ 34,057	1.4	32%	16.2	8.0	0%	5,827.6
Placer	183.7	49%	267.5	\$ 34,886	39.8	82%	38.3	143.8	44%	2,303.0
Plumas	19.3	100%	7.6	\$ 29,806	14.2	100%	5.6	5.1	100%	1,381.1
Riverside	104.3	4%	332.4	\$ 23,591	66.0	63%	16.0	38.3	2%	3,231.9
Sacramento	41.1	3%	1,522.3	\$ 26,739	18.3	63%	45.8	22.8	2%	4,373.0
San Benito	7.8	14%	40.0	\$ 25,914	7.8	62%	9.1	0.0	0%	3,761.3
San Bernardino	141.7	7%	106.4	\$ 21,332	65.9	68%	5.0	75.8	4%	3,253.9
San Diego	103.9	3%	756.2	\$ 30,668	57.5	55%	30.2	46.3	2%	4,047.5
San Francisco	2.2	0%	17,496.7	\$ 48,486	-	-	-	2.2	0%	17,574.1
San Joaquin	49.0	7%	516.3	\$ 22,589	35.9	62%	47.1	13.1	2%	4,234.5
San Luis Obispo	40.9	15%	85.3	\$ 29,954	27.0	59%	14.4	13.9	6%	2,412.2
San Mateo	10.8	1%	1,629.8	\$ 45,732	1.5	11%	43.8	9.2	1%	5,094.7
Santa Barbara	22.5	5%	159.6	\$ 30,352	12.0	56%	8.1	10.5	3%	3,918.6
Santa Clara	12.3	1%	1,414.8	\$ 41,513	6.2	32%	19.8	6.1	0%	5,460.5
Santa Cruz	117.6	44%	599.9	\$ 32,295	14.2	45%	85.4	103.4	44%	2,975.3
Shasta	48.1	27%	47.5	\$ 23,670	43.2	85%	13.8	5.0	4%	1,679.4
Sierra	3.0	98%	3.2	\$ 24,996	3.0	99%	3.2	-	0%	1,267.0
Siskiyou	44.4	100%	7.1	\$ 22,293	29.1	100%	4.6	15.3	100%	1,249.5
Solano	44.0	11%	508.0	\$ 28,929	8.4	54%	22.0	35.6	9%	3,531.4
Sonoma	11.8	2%	310.1	\$ 32,835	11.1	20%	39.4	0.8	0%	3,002.4
Stanislaus	30.2	6%	356.0	\$ 21,663	26.6	66%	29.3	3.5	1%	4,114.1
Sutter	8.2	8%	165.5	\$ 23,602	7.3	53%	23.8	0.9	1%	3,513.5
Tehama	30.9	47%	22.2	\$ 20,439	25.7	76%	11.6	5.1	16%	1,941.3
Trinity	14.0	100%	4.4	\$ 22,905	14.0	100%	4.4	-	-	-
Tulare	237.4	51%	97.0	\$ 17,894	63.5	92%	14.7	173.8	44%	3,567.3
Tuolumne	18.0	33%	24.9	\$ 25,943	16.2	60%	12.4	1.8	6%	902.6
Ventura	21.8	3%	459.5	\$ 32,930	12.9	51%	15.5	8.9	1%	3,698.3
Yolo	115.5	55%	207.6	\$ 27,730	13.8	98%	14.5	101.7	52%	4,203.0
Yuba	15.3	20%	121.7	\$ 19,244	15.0	77%	31.6	0.3	1%	3,095.0
<b>Colorado</b>	<b>942.8</b>	<b>18%</b>	<b>50.8</b>		<b>504.5</b>	<b>71%</b>	<b>6.9</b>	<b>438.3</b>	<b>10%</b>	<b>2,980.0</b>
Adams	28.5	6%	406.2	\$ 24,195	9.0	50%	17.6	19.5	4%	3,245.7
Alamosa	15.2	97%	21.5	\$ 19,487	5.7	100%	8.0	9.4	96%	1,344.5
Arapahoe	17.1	3%	747.8	\$ 32,595	7.7	81%	14.7	9.4	2%	3,839.1
Archuleta	12.6	99%	9.4	\$ 29,793	7.3	99%	5.5	5.3	100%	1,003.8
Baca	3.0	93%	1.3	\$ 22,318	3.0	93%	1.3	-	-	-
Bent	4.5	69%	4.3	\$ 15,081	2.4	98%	1.6	2.1	51%	2,911.0
Boulder	21.7	7%	415.8	\$ 38,011	13.1	51%	40.4	8.6	3%	3,234.1
Broomfield	2.0	3%	1,836.1	\$ 37,442	0.0	5%	30.1	2.0	3%	2,603.1

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Chaffee	17.3	96%	17.9	\$ 27,182	6.3	93%	6.7	11.0	97%	1,296.1
Cheyenne	1.7	100%	0.9	\$ 23,647	1.7	100%	0.9			
Clear Creek	5.4	61%	22.5	\$ 41,716	5.4	61%	22.5			
Conejos	8.3	100%	6.5	\$ 17,316	8.3	100%	6.5			
Costilla	1.9	56%	2.8	\$ 20,742	1.9	56%	2.8			
Crowley	4.7	80%	7.5	\$ 17,187	4.7	80%	7.5			
Custer	4.4	99%	6.0	\$ 25,761	4.4	99%	6.0			
Delta	31.0	97%	28.0	\$ 24,771	19.8	98%	17.8	11.2	95%	1,325.6
Denver	12.3	2%	4,069.2	\$ 33,251	-		-	12.3	2%	5,700.4
Dolores	1.9	100%	1.8	\$ 22,880	1.9	100%	1.8			
Douglas	18.6	6%	379.5	\$ 43,634	15.6	49%	43.3	3.1	1%	2,863.5
Eagle	23.6	42%	33.2	\$ 39,497	6.7	64%	6.2	16.9	37%	2,220.1
Elbert	15.3	65%	12.8	\$ 36,077	15.3	65%	12.8			
El Paso	57.3	9%	308.7	\$ 28,867	31.1	55%	29.3	26.2	4%	3,123.4
Fremont	41.5	90%	29.9	\$ 18,954	10.5	96%	7.2	31.0	89%	1,500.6
Garfield	12.9	21%	20.7	\$ 26,603	7.9	56%	4.8	5.1	11%	2,670.0
Gilpin	5.1	90%	37.6	\$ 38,022	5.1	90%	37.6			
Grand	5.3	34%	8.4	\$ 31,684	4.5	35%	6.9	0.9	31%	1,245.1
Gunnison	13.7	87%	4.8	\$ 27,654	7.5	81%	2.9	6.2	96%	2,006.1
Hinsdale	0.9	100%	0.8	\$ 36,365	0.9	100%	0.8			
Huerfano	6.1	97%	3.9	\$ 24,058	3.6	99%	2.3	2.5	95%	1,570.7
Jackson	1.3	100%	0.8	\$ 25,936	1.3	100%	0.8			
Jefferson	26.5	5%	701.1	\$ 36,087	20.9	57%	61.0	5.6	1%	3,103.7
Kiowa	1.3	99%	0.7	\$ 22,482	1.3	99%	0.7			
Kit Carson	8.2	100%	3.8	\$ 21,850	3.9	99%	1.8	4.2	100%	2,856.1
Lake	6.6	91%	19.2	\$ 25,029	1.9	83%	6.0	4.7	94%	1,501.1
La Plata	23.7	44%	31.6	\$ 30,151	12.5	39%	19.0	11.2	52%	1,939.0
Larimer	20.9	7%	121.3	\$ 30,740	19.1	53%	14.5	1.8	1%	2,448.7
Las Animas	5.8	38%	3.2	\$ 22,180	5.6	88%	1.3	0.2	3%	1,560.4
Lincoln	5.2	100%	2.0	\$ 19,703	5.2	100%	2.0			
Logan	22.3	97%	12.5	\$ 22,581	6.1	96%	3.5	16.2	98%	2,553.1
Mesa	136.8	87%	47.4	\$ 26,700	18.3	93%	6.1	118.5	86%	1,753.3
Mineral	0.7	100%	0.8	\$ 42,255	0.7	100%	0.8			
Moffat	13.3	95%	2.9	\$ 24,577	3.8	100%	0.8	9.5	93%	1,790.4
Montezuma	14.2	54%	12.8	\$ 23,548	13.8	79%	8.7	0.4	4%	2,309.6
Montrose	37.5	85%	19.6	\$ 22,897	15.3	83%	8.3	22.2	87%	1,413.7
Morgan	26.1	92%	22.1	\$ 20,680	8.6	93%	7.2	17.5	91%	2,598.0
Otero	17.0	95%	14.3	\$ 19,078	6.0	97%	4.9	11.0	94%	2,113.2
Ouray	4.4	94%	8.6	\$ 33,015	4.4	94%	8.6			
Park	13.0	79%	7.5	\$ 31,504	13.0	79%	7.5			
Phillips	4.3	100%	6.3	\$ 20,720	4.3	100%	6.3			
Pitkin	3.5	20%	18.3	\$ 51,814	2.9	36%	8.3	0.6	6%	1,757.1
Prowers	11.4	96%	7.3	\$ 18,941	4.3	96%	2.7	7.1	96%	1,524.5
Pueblo	21.6	13%	68.9	\$ 21,940	15.7	65%	10.5	5.9	4%	1,888.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Rio Blanco	6.9	100%	2.1	\$ 27,586	6.9	100%	2.1			
Rio Grande	11.4	98%	12.8	\$ 20,557	7.3	99%	8.1	4.1	95%	2,037.8
Routt	7.0	28%	10.4	\$ 34,873	7.0	65%	4.6	-	0%	1,699.3
Saguache	6.1	100%	1.9	\$ 20,726	6.1	100%	1.9			
San Juan	0.7	100%	1.9	\$ 24,711	0.7	100%	1.9			
San Miguel	7.2	95%	5.9	\$ 40,827	7.2	95%	5.9			
Sedgwick	2.2	100%	4.0	\$ 21,536	2.2	100%	4.0			
Summit	3.1	11%	48.2	\$ 34,025	1.9	35%	9.1	1.2	5%	1,548.2
Teller	12.7	53%	42.9	\$ 31,075	12.5	82%	27.5	0.2	2%	1,298.8
Washington	4.1	100%	1.6	\$ 24,977	4.1	100%	1.6			
Weld	52.6	19%	69.3	\$ 25,468	42.6	79%	13.9	10.0	4%	2,670.1
Yuma	9.9	99%	4.2	\$ 22,498	6.3	99%	2.7	3.6	100%	2,341.4
<b>Connecticut</b>	<b>49.9</b>	<b>1%</b>	<b>747.3</b>		<b>20.6</b>	<b>5%</b>	<b>144.1</b>	<b>29.3</b>	<b>1%</b>	<b>1,743.3</b>
Fairfield	3.7	0%	1,483.7	\$ 48,721	2.7	6%	232.1	1.0	0%	1,999.5
Hartford	17.1	2%	1,229.3	\$ 34,698	2.6	5%	179.2	14.5	2%	1,869.9
Litchfield	4.3	2%	207.1	\$ 37,667	3.8	5%	95.6	0.4	0%	1,192.7
Middlesex	2.7	2%	455.4	\$ 39,992	1.7	4%	158.3	1.0	1%	1,152.8
New Haven	8.9	1%	1,443.8	\$ 32,523	2.7	8%	190.1	6.2	1%	1,923.2
New London	8.5	3%	418.8	\$ 33,782	3.8	5%	138.5	4.7	2%	1,357.4
Tolland	3.4	2%	382.0	\$ 34,392	2.0	3%	183.5	1.5	2%	1,123.1
Windham	1.3	1%	236.3	\$ 27,893	1.3	2%	129.4	-	0%	1,304.7
<b>Delaware</b>	<b>29.7</b>	<b>3%</b>	<b>478.0</b>		<b>20.1</b>	<b>13%</b>	<b>101.2</b>	<b>9.6</b>	<b>1%</b>	<b>1,905.7</b>
Kent	9.1	5%	296.2	\$ 24,851	5.7	13%	89.0	3.5	3%	1,563.4
New Castle	8.9	2%	1,282.3	\$ 32,406	4.4	17%	119.4	4.5	1%	2,483.0
Sussex	11.7	6%	225.6	\$ 26,908	10.0	12%	103.9	1.7	1%	1,096.2
<b>District of Columbia</b>	<b>9.4</b>	<b>2%</b>	<b>10,183.4</b>	<b>\$ 45,290</b>				<b>9.4</b>	<b>2%</b>	<b>10,183.4</b>
<b>Florida</b>	<b>1,278.3</b>	<b>7%</b>	<b>366.1</b>		<b>707.7</b>	<b>41%</b>	<b>37.4</b>	<b>570.6</b>	<b>3%</b>	<b>2,418.3</b>
Alachua	56.3	22%	291.8	\$ 24,857	30.9	58%	68.4	25.4	13%	2,166.1
Baker	9.8	34%	49.0	\$ 19,852	9.4	54%	30.2	0.5	4%	1,170.4
Bay	7.2	4%	229.1	\$ 24,498	6.1	29%	32.1	1.2	1%	1,558.7
Bradford	16.8	57%	99.6	\$ 17,749	16.0	72%	77.0	0.8	11%	1,148.6
Brevard	7.5	1%	560.9	\$ 27,009	7.4	27%	37.2	0.1	0%	2,037.2
Broward	156.8	9%	1,457.2	\$ 28,205	0.2	66%	0.3	156.6	9%	4,483.0
Calhoun	7.4	49%	26.5	\$ 14,675	7.4	72%	18.2	-	0%	1,213.2
Charlotte	10.6	7%	237.6	\$ 26,286	3.9	27%	25.8	6.6	5%	1,249.7
Citrus	9.2	6%	254.4	\$ 23,148	8.4	17%	105.0	0.8	1%	940.8
Clay	19.3	9%	342.0	\$ 26,577	11.5	39%	59.8	7.8	4%	1,637.3
Collier	13.3	4%	172.3	\$ 36,439	8.4	28%	16.8	4.8	2%	1,760.1
Columbia	26.2	37%	89.3	\$ 19,306	21.4	49%	56.9	4.9	18%	1,088.4
DeSoto	10.0	28%	55.5	\$ 15,088	7.6	50%	24.5	2.4	12%	1,709.2
Dixie	16.5	100%	23.4	\$ 16,851	12.4	100%	17.7	4.1	100%	1,173.3
Duval	51.4	6%	1,167.9	\$ 26,143	9.4	36%	69.7	42.0	5%	2,257.9



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Escambia	7.8	3%	451.0	\$ 23,441	6.5	27%	51.1	1.3	0%	1,562.1
Flagler	2.5	2%	231.0	\$ 24,497	1.8	20%	21.4	0.7	1%	1,955.6
Franklin	1.7	14%	22.7	\$ 19,843	1.5	18%	15.7	0.2	4%	1,340.6
Gadsden	11.7	25%	90.7	\$ 17,615	11.4	37%	60.7	0.4	2%	1,251.4
Gilchrist	15.2	86%	50.5	\$ 20,180	14.2	97%	42.2	0.9	31%	1,544.4
Glades	7.5	55%	17.1	\$ 16,011	5.8	60%	12.1	1.7	41%	1,522.1
Gulf	6.4	39%	28.9	\$ 18,546	6.4	49%	23.4	-	0%	1,105.5
Hamilton	10.8	72%	29.2	\$ 16,295	7.4	80%	18.1	3.4	59%	2,606.1
Hardee	7.5	27%	43.9	\$ 15,366	7.0	54%	20.6	0.5	3%	1,472.0
Hendry	14.0	35%	34.9	\$ 16,133	11.3	75%	13.2	2.6	10%	1,708.8
Hernando	7.2	4%	394.6	\$ 21,411	6.6	18%	97.0	0.5	0%	1,490.6
Highlands	12.3	12%	101.4	\$ 20,072	6.7	33%	21.5	5.6	7%	1,272.1
Hillsborough	16.7	1%	1,276.4	\$ 27,149	8.7	19%	89.0	7.9	1%	2,445.4
Holmes	14.7	73%	42.0	\$ 16,845	13.0	82%	33.5	1.6	39%	1,170.1
Indian River	7.0	5%	291.8	\$ 30,532	2.9	41%	17.0	4.1	3%	1,659.5
Jackson	21.5	43%	54.9	\$ 17,525	19.0	50%	41.6	2.5	20%	1,464.7
Jefferson	11.6	77%	25.2	\$ 21,184	11.6	77%	25.2			
Lafayette	8.6	92%	17.2	\$ 18,660	8.6	92%	17.2			
Lake	34.8	11%	344.9	\$ 24,183	21.2	35%	78.0	13.6	5%	1,633.8
Lee	47.8	7%	857.1	\$ 27,348	8.0	21%	91.7	39.8	6%	1,732.9
Leon	11.2	4%	427.9	\$ 26,196	11.0	31%	65.7	0.2	0%	1,953.1
Levy	32.8	77%	38.3	\$ 18,304	32.7	83%	35.4	0.2	5%	1,091.0
Liberty	5.6	65%	10.4	\$ 16,266	5.6	65%	10.4			
Madison	12.8	67%	27.5	\$ 15,538	11.8	77%	22.2	1.0	26%	1,883.5
Manatee	9.0	3%	458.6	\$ 27,322	5.9	28%	35.1	3.1	1%	2,188.4
Marion	65.8	19%	222.9	\$ 21,992	51.2	49%	74.0	14.6	6%	1,445.4
Martin	7.5	5%	278.9	\$ 34,057	5.0	39%	27.5	2.5	2%	1,836.9
Miami-Dade	118.3	5%	1,347.7	\$ 23,174	5.0	55%	6.2	113.3	4%	6,201.6
Monroe	4.0	5%	77.3	\$ 33,974	1.2	17%	7.4	2.8	4%	1,830.8
Nassau	16.3	20%	123.8	\$ 28,926	13.9	36%	62.8	2.5	6%	1,027.1
Okaloosa	10.4	6%	200.3	\$ 28,600	10.3	46%	26.7	0.2	0%	1,793.6
Okeechobee	12.8	30%	55.1	\$ 17,787	11.6	76%	20.3	1.2	4%	1,098.9
Orange	9.4	1%	1,344.9	\$ 24,877	4.7	18%	55.3	4.8	0%	2,797.1
Osceola	4.7	2%	225.6	\$ 19,007	2.7	12%	18.5	2.0	1%	1,981.5
Palm Beach	31.4	2%	696.2	\$ 32,858	3.3	25%	8.6	28.1	2%	2,985.5
Pasco	16.5	3%	676.4	\$ 23,736	13.4	29%	93.8	3.2	1%	1,821.8
Pinellas	2.7	0%	3,335.8	\$ 29,262	0.5	25%	96.4	2.1	0%	3,618.1
Polk	10.5	2%	355.0	\$ 21,285	8.3	10%	56.3	2.3	0%	1,729.7
Putnam	24.4	33%	102.7	\$ 18,377	21.8	51%	61.9	2.6	8%	836.5
St. Johns	28.8	13%	359.7	\$ 36,836	22.3	43%	102.3	6.5	4%	1,726.4
St. Lucie	15.2	5%	534.8	\$ 23,285	3.7	38%	23.1	11.5	4%	1,997.0
Santa Rosa	13.1	8%	160.1	\$ 26,861	9.3	29%	34.7	3.8	3%	1,345.4
Sarasota	12.6	3%	712.0	\$ 32,313	4.5	25%	48.3	8.1	2%	2,073.6
Seminole	1.2	0%	1,406.7	\$ 28,675	1.2	9%	94.2	-	0%	2,548.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Sumter	11.2	11%	194.1	\$ 27,504	10.7	31%	68.1	0.5	1%	2,026.1
Suwannee	30.6	70%	63.0	\$ 18,431	30.1	83%	52.9	0.5	7%	1,296.8
Taylor	10.2	43%	22.9	\$ 17,045	9.9	58%	16.4	0.3	4%	1,018.2
Union	13.3	83%	65.8	\$ 13,590	9.8	92%	44.6	3.6	67%	1,095.3
Volusia	14.9	3%	462.4	\$ 23,973	14.8	29%	57.8	0.1	0%	2,053.6
Wakulla	8.6	25%	55.7	\$ 21,797	4.8	24%	34.1	3.8	28%	912.7
Walton	10.0	17%	57.8	\$ 25,845	10.0	27%	36.6	0.0	0%	929.8
Washington	16.8	64%	44.8	\$ 17,385	16.8	75%	38.4	-	0%	1,041.7
<b>Georgia</b>	<b>1,403.1</b>	<b>14%</b>	<b>176.1</b>		<b>1,100.5</b>	<b>44%</b>	<b>47.4</b>	<b>302.7</b>	<b>4%</b>	<b>1,591.1</b>
Appling	18.3	100%	36.1	\$ 19,643	13.0	100%	26.0	5.2	100%	923.3
Atkinson	4.5	52%	25.3	\$ 15,958	4.5	52%	25.3			
Bacon	11.3	100%	43.7	\$ 18,558	7.6	100%	29.7	3.7	100%	1,310.3
Baker	3.0	95%	9.3	\$ 17,019	3.0	95%	9.3			
Baldwin	10.3	22%	177.4	\$ 18,622	8.5	49%	76.8	1.7	6%	859.3
Banks	16.5	85%	83.8	\$ 20,231	15.6	85%	79.2	1.0	79%	743.8
Barrow	2.0	3%	482.5	\$ 21,379	0.6	3%	227.0	1.4	3%	919.9
Bartow	9.2	9%	232.7	\$ 21,022	8.0	21%	94.7	1.3	2%	1,088.4
Ben Hill	4.3	24%	70.4	\$ 14,204	3.4	57%	25.0	0.9	8%	1,315.5
Berrien	10.1	51%	44.3	\$ 16,784	9.7	63%	34.5	0.4	9%	1,378.9
Bibb	4.8	3%	620.6	\$ 20,982	4.1	18%	147.6	0.7	1%	1,390.5
Bleckley	4.7	35%	62.1	\$ 20,156	4.4	64%	32.2	0.3	5%	1,434.8
Brantley	4.3	22%	43.8	\$ 16,938	4.2	22%	43.6	0.1	100%	583.1
Brooks	8.3	53%	31.9	\$ 19,409	8.2	74%	22.6	0.1	2%	961.1
Bryan	3.7	11%	74.5	\$ 27,556	2.7	17%	37.3	1.0	6%	1,206.5
Bulloch	27.6	37%	110.7	\$ 18,587	26.3	73%	55.4	1.3	3%	1,516.8
Burke	4.4	19%	28.1	\$ 16,171	4.2	24%	21.1	0.2	4%	1,238.0
Butts	4.0	16%	134.6	\$ 20,363	4.0	20%	108.7	-	0%	1,128.3
Calhoun	6.8	99%	24.3	\$ 14,868	6.8	99%	24.3			
Camden	13.9	26%	86.0	\$ 22,701	7.7	50%	26.4	6.2	17%	1,193.8
Candler	7.0	62%	46.6	\$ 17,974	6.9	90%	32.0	0.1	3%	1,206.4
Carroll	8.2	7%	235.1	\$ 21,227	8.0	17%	111.6	0.3	0%	1,002.6
Catoosa	1.9	3%	411.6	\$ 21,690	1.5	8%	153.7	0.4	1%	1,164.6
Charlton	6.9	55%	16.2	\$ 17,102	5.6	86%	8.5	1.2	21%	1,237.6
Chatham	15.2	5%	648.6	\$ 25,093	2.2	17%	47.1	13.0	5%	1,653.6
Chattahoochee	2.9	25%	46.7	\$ 20,042	2.9	97%	12.4	-	0%	1,413.6
Chattooga	5.4	21%	83.1	\$ 16,045	5.4	36%	49.5	-	0%	1,157.3
Cherokee	11.1	5%	563.5	\$ 29,615	6.6	16%	144.0	4.5	2%	1,399.2
Clarke	1.0	1%	1,016.5	\$ 19,295	1.0	14%	139.5	-	0%	1,654.4
Clay	3.1	100%	15.8	\$ 12,982	3.1	100%	15.8			
Clayton	2.1	1%	1,872.5	\$ 17,950	0.0	1%	120.1	2.0	1%	2,136.9
Clinch	2.8	42%	8.4	\$ 17,815	2.6	63%	5.1	0.2	8%	1,270.2
Cobb	19.0	3%	2,093.3	\$ 33,069	0.1	3%	329.4	18.9	3%	2,122.0
Coffee	43.4	100%	75.6	\$ 17,031	29.0	100%	51.6	14.4	100%	1,204.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Colquitt	17.6	38%	85.6	\$ 17,025	16.7	60%	52.7	0.9	5%	1,037.4
Columbia	4.0	3%	463.1	\$ 30,949	3.2	15%	93.6	0.9	1%	1,699.5
Cook	6.2	36%	77.1	\$ 18,592	5.8	55%	47.7	0.5	7%	1,152.9
Coweta	5.0	4%	317.3	\$ 26,757	4.5	10%	128.0	0.5	1%	1,070.3
Crawford	5.6	45%	38.5	\$ 20,556	5.6	45%	38.5			
Crisp	7.4	31%	86.7	\$ 18,185	6.7	60%	41.9	0.7	6%	1,667.3
Dade	3.4	20%	97.1	\$ 21,690	3.3	28%	70.8	0.1	2%	938.1
Dawson	12.5	51%	115.2	\$ 27,330	12.1	62%	95.8	0.3	7%	641.8
Decatur	11.7	43%	46.1	\$ 18,059	11.1	73%	26.1	0.6	5%	1,182.6
DeKalb	11.0	2%	2,614.5	\$ 28,810	0.4	19%	163.9	10.6	2%	2,737.5
Dodge	13.2	59%	45.1	\$ 18,114	12.8	78%	33.5	0.4	7%	1,052.9
Dooly	6.4	41%	39.8	\$ 14,510	6.1	74%	21.4	0.3	4%	2,010.8
Dougherty	6.2	7%	284.7	\$ 18,619	2.8	22%	46.8	3.3	4%	1,449.8
Douglas	7.0	5%	720.5	\$ 23,626	1.8	8%	197.4	5.2	4%	1,438.6
Early	9.9	96%	20.2	\$ 17,579	6.3	94%	13.3	3.6	100%	1,171.8
Echols	4.0	100%	9.7	\$ 15,861	4.0	100%	9.7			
Effingham	15.7	28%	119.1	\$ 24,824	15.0	40%	80.7	0.6	3%	1,489.0
Elbert	7.4	37%	56.4	\$ 18,835	7.4	53%	40.6	0.0	0%	1,104.5
Emanuel	19.7	87%	33.3	\$ 17,064	12.1	81%	22.4	7.6	100%	848.7
Evans	5.2	47%	60.4	\$ 18,998	4.6	68%	37.8	0.6	13%	1,346.2
Fannin	6.9	28%	63.3	\$ 19,164	6.9	28%	63.3			
Fayette	2.6	2%	565.3	\$ 35,344	1.1	6%	179.1	1.5	2%	1,040.3
Floyd	12.3	13%	190.6	\$ 20,500	9.3	26%	77.4	3.0	5%	1,288.9
Forsyth	4.0	2%	893.5	\$ 34,582	2.1	11%	277.3	1.9	1%	1,165.0
Franklin	12.9	58%	85.3	\$ 18,234	12.9	65%	76.7	-	0%	1,062.0
Fulton	19.2	2%	1,819.3	\$ 36,757	0.8	7%	102.1	18.4	2%	2,262.0
Gilmer	4.8	16%	69.1	\$ 21,317	4.8	19%	61.1	-	0%	733.0
Glascok	2.6	80%	22.5	\$ 17,984	2.6	80%	22.5			
Glynn	8.4	10%	199.6	\$ 26,724	5.1	29%	48.1	3.3	5%	1,263.1
Gordon	8.2	14%	164.0	\$ 19,177	7.1	24%	89.8	1.2	4%	999.2
Grady	6.9	27%	55.5	\$ 15,734	6.9	44%	35.5	-	0%	1,439.7
Greene	9.8	61%	41.8	\$ 27,828	9.8	73%	34.9	-	0%	1,221.4
Gwinnett	10.3	1%	2,024.9	\$ 25,932	0.0	0%	218.5	10.3	1%	2,113.5
Habersham	15.4	34%	163.7	\$ 18,910	8.4	32%	103.2	7.0	37%	995.8
Hall	5.6	3%	492.4	\$ 23,645	4.6	12%	153.0	1.0	1%	1,119.9
Hancock	9.0	99%	19.3	\$ 12,381	5.5	99%	12.0	3.5	100%	910.4
Haralson	9.3	32%	104.1	\$ 19,789	9.2	41%	82.0	0.1	1%	1,033.3
Harris	9.3	27%	74.1	\$ 31,482	9.2	28%	71.8	0.2	15%	1,205.9
Hart	24.6	96%	110.4	\$ 20,371	18.7	98%	84.5	6.0	91%	1,039.4
Heard	5.3	44%	40.4	\$ 18,964	5.3	44%	40.4			
Henry	2.1	1%	706.4	\$ 25,299	1.6	5%	211.7	0.5	0%	1,124.0
Houston	3.3	2%	396.0	\$ 25,195	3.3	23%	50.3	-	0%	1,562.4
Irwin	5.9	63%	26.1	\$ 18,207	5.1	85%	17.2	0.7	23%	1,513.6
Jackson	42.6	64%	196.9	\$ 23,247	23.6	60%	128.5	19.0	69%	837.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Jasper	8.3	57%	39.6	\$ 21,297	8.3	70%	32.4	0.0	2%	1,384.1
Jeff Davis	7.0	45%	47.5	\$ 17,684	6.2	57%	33.4	0.8	18%	1,187.4
Jefferson	7.0	42%	31.4	\$ 14,757	6.9	51%	25.6	0.1	4%	1,300.7
Jenkins	2.8	35%	23.4	\$ 17,565	2.8	51%	15.6	0.1	2%	1,065.1
Johnson	7.1	68%	34.1	\$ 16,807	5.2	77%	22.4	1.9	52%	793.7
Jones	13.1	44%	76.2	\$ 24,485	12.9	64%	52.2	0.2	2%	1,066.3
Lamar	5.5	29%	102.8	\$ 18,800	5.4	46%	65.4	0.1	2%	1,331.1
Lanier	5.0	45%	59.8	\$ 17,264	4.9	60%	44.5	0.1	3%	2,720.2
Laurens	18.8	38%	60.8	\$ 18,625	18.7	66%	35.9	0.1	0%	932.5
Lee	6.9	24%	80.9	\$ 26,357	5.3	55%	28.6	1.5	8%	1,018.9
Liberty	7.3	11%	131.3	\$ 20,791	4.2	28%	32.4	3.1	6%	1,746.2
Lincoln	1.0	13%	36.9	\$ 20,641	1.0	13%	36.9			
Long	9.1	57%	40.2	\$ 17,158	8.4	65%	32.4	0.7	22%	1,111.0
Lowndes	27.0	24%	231.4	\$ 18,897	15.6	50%	70.5	11.4	14%	1,451.9
Lumpkin	22.6	69%	115.5	\$ 20,908	21.7	79%	98.6	0.9	17%	1,254.0
McDuffie	1.4	7%	85.0	\$ 17,922	1.3	10%	52.4	0.1	1%	1,414.3
McIntosh	2.8	18%	36.4	\$ 21,484	2.8	24%	27.4	-	0%	1,257.0
Macon	5.6	38%	36.7	\$ 13,865	5.2	66%	19.8	0.4	6%	1,161.6
Madison	13.3	47%	101.3	\$ 19,939	13.3	51%	94.0	-	0%	745.9
Marion	5.9	65%	24.8	\$ 17,479	5.9	65%	24.8			
Meriwether	11.1	52%	42.9	\$ 18,821	11.1	62%	35.9	-	0%	1,133.2
Miller	5.8	98%	21.1	\$ 19,674	5.8	98%	21.1			
Mitchell	10.0	43%	45.4	\$ 15,694	8.2	65%	25.1	1.8	17%	1,392.9
Monroe	24.0	86%	70.1	\$ 22,888	18.7	84%	56.9	5.3	96%	1,189.8
Montgomery	6.5	70%	38.5	\$ 16,460	6.4	70%	38.0	0.1	100%	1,012.4
Morgan	11.7	63%	53.2	\$ 25,933	11.7	84%	40.9	0.0	0%	1,060.0
Murray	4.4	11%	116.3	\$ 16,449	4.4	16%	85.5	-	0%	717.5
Muscogee	1.7	1%	886.7	\$ 22,856	1.5	24%	48.3	0.2	0%	2,083.3
Newton	4.3	4%	409.1	\$ 21,484	3.3	10%	166.1	1.0	1%	1,149.3
Oconee	6.2	18%	189.1	\$ 33,801	6.2	35%	109.6	-	0%	687.8
Oglethorpe	11.5	75%	35.2	\$ 20,493	11.5	75%	35.0	-	0%	277.6
Paulding	10.6	7%	517.9	\$ 24,168	8.6	27%	163.5	2.0	2%	1,127.7
Peach	5.2	18%	192.2	\$ 19,431	5.0	47%	80.1	0.2	1%	1,096.4
Pickens	7.0	22%	135.1	\$ 26,686	7.0	30%	103.7	-	0%	772.2
Pierce	19.6	100%	61.9	\$ 20,001	15.6	100%	49.9	4.0	100%	1,186.3
Pike	15.1	79%	88.4	\$ 22,191	15.1	80%	87.6	-	0%	635.9
Polk	3.7	9%	136.6	\$ 18,336	3.7	17%	74.1	-	0%	1,305.0
Pulaski	5.7	45%	50.4	\$ 17,781	5.7	65%	35.3	-	0%	1,202.3
Putnam	9.9	45%	63.4	\$ 26,321	9.7	55%	52.2	0.2	4%	975.5
Quitman	1.7	68%	16.4	\$ 14,201	1.5	83%	12.2	0.2	26%	903.8
Rabun	6.8	41%	44.6	\$ 22,260	6.8	54%	34.8	-	0%	967.6
Randolph	3.7	49%	17.7	\$ 18,094	3.5	93%	8.8	0.2	6%	1,625.4
Richmond	1.8	1%	615.8	\$ 20,526	0.7	4%	81.5	1.0	1%	1,709.8
Rockdale	2.6	3%	689.5	\$ 23,461	1.1	8%	187.6	1.5	2%	1,274.1

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Schley	2.8	53%	32.3	\$ 19,037	2.8	53%	32.3			
Screven	9.0	64%	22.1	\$ 18,640	8.7	78%	17.6	0.3	10%	824.9
Seminole	4.7	56%	35.7	\$ 17,641	4.6	80%	24.6	0.2	7%	916.6
Spalding	3.9	6%	333.8	\$ 19,783	2.9	11%	159.1	1.0	3%	1,368.8
Stephens	7.1	27%	146.1	\$ 18,557	7.1	45%	93.6	-	0%	953.7
Stewart	5.1	83%	13.4	\$ 13,238	5.1	83%	13.4			
Sumter	11.3	35%	67.0	\$ 17,879	9.7	72%	28.7	1.6	8%	1,552.7
Talbot	3.6	53%	17.4	\$ 16,993	3.6	56%	16.3	-	0%	562.6
Taliaferro	0.9	58%	8.1	\$ 14,381	0.9	58%	8.1			
Tattnall	21.9	83%	54.7	\$ 15,280	16.2	91%	37.6	5.6	67%	1,331.8
Taylor	5.1	62%	22.0	\$ 17,078	5.1	62%	22.0			
Telfair	9.4	53%	40.4	\$ 12,489	6.2	76%	18.8	3.2	33%	1,817.1
Terrell	3.7	42%	25.8	\$ 16,836	3.4	77%	13.4	0.2	6%	1,910.5
Thomas	14.0	31%	83.0	\$ 19,983	13.0	63%	39.6	1.0	4%	1,080.9
Tift	9.9	24%	156.8	\$ 18,933	6.5	40%	67.8	3.4	14%	1,368.6
Toombs	27.3	100%	75.2	\$ 18,716	14.3	100%	40.5	13.1	100%	1,108.3
Towns	5.8	54%	64.5	\$ 20,419	5.8	54%	64.5			
Treutlen	4.6	67%	34.2	\$ 19,410	3.7	91%	20.6	0.9	31%	1,112.9
Troup	6.8	10%	167.2	\$ 21,443	6.8	22%	81.0	-	0%	1,229.2
Turner	3.4	40%	29.9	\$ 17,609	3.1	73%	15.0	0.3	7%	1,366.8
Twiggs	8.3	98%	23.5	\$ 17,952	8.3	98%	23.5			
Union	9.8	43%	69.8	\$ 22,156	9.8	43%	69.8			
Upson	3.0	11%	81.0	\$ 17,978	3.0	25%	38.4	-	0%	1,361.5
Walker	8.5	12%	157.9	\$ 20,865	7.5	24%	76.1	1.0	3%	1,055.4
Walton	12.5	14%	280.0	\$ 22,824	3.8	10%	141.0	8.8	17%	973.7
Ware	35.3	97%	40.6	\$ 18,842	10.7	99%	12.5	24.5	96%	1,130.3
Warren	1.4	25%	19.5	\$ 17,884	1.4	25%	19.5			
Washington	10.3	49%	31.0	\$ 17,515	10.3	74%	20.6	-	0%	1,023.6
Wayne	9.7	31%	48.4	\$ 17,270	7.4	41%	28.4	2.3	18%	1,258.9
Webster	2.8	100%	13.6	\$ 19,082	2.8	100%	13.6			
Wheeler	3.7	49%	25.9	\$ 8,948	3.7	49%	25.9			
White	12.8	44%	120.6	\$ 22,059	12.3	51%	102.4	0.4	9%	1,010.6
Whitfield	2.9	3%	372.1	\$ 19,497	2.9	9%	136.6	-	0%	1,220.0
Wilcox	9.3	100%	24.7	\$ 13,228	9.3	100%	24.7			
Wilkes	3.0	29%	22.1	\$ 17,120	3.0	43%	14.8	0.0	0%	1,092.7
Wilkinson	9.1	99%	20.6	\$ 17,228	9.1	99%	20.6			
Worth	9.7	46%	37.3	\$ 18,551	9.3	63%	25.9	0.4	6%	1,236.6
<b>Hawaii</b>	<b>57.0</b>	<b>4%</b>	<b>219.0</b>		<b>49.6</b>	<b>45%</b>	<b>18.5</b>	<b>7.4</b>	<b>1%</b>	<b>3,294.3</b>
Hawaii	35.0	19%	46.1	\$ 24,635	32.6	46%	17.8	2.5	2%	1,333.0
Honolulu	4.3	0%	1,647.3	\$ 30,361	2.2	26%	22.2	2.2	0%	4,488.7
Kalawao	0.1	100%	7.4	\$ 45,515	0.1	100%	7.4			
Kauai	1.2	2%	112.9	\$ 26,658	1.1	12%	15.6	0.2	0%	1,700.6
Maui	16.3	10%	138.5	\$ 29,517	13.7	59%	21.1	2.6	2%	2,642.8

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
<b>Idaho</b>	<b>820.3</b>	<b>50%</b>	<b>19.9</b>		<b>374.0</b>	<b>79%</b>	<b>5.7</b>	<b>446.3</b>	<b>38%</b>	<b>2,351.7</b>
Ada	115.5	27%	399.3	\$ 27,452	17.0	72%	26.0	98.5	25%	2,777.0
Adams	3.0	74%	3.0	\$ 21,555	3.0	74%	3.0			
Bannock	60.6	72%	75.9	\$ 21,327	12.3	94%	12.1	48.2	68%	2,298.5
Bear Lake	4.9	86%	5.8	\$ 21,853	4.9	86%	5.8			
Benewah	9.2	100%	11.9	\$ 20,198	6.7	100%	8.7	2.5	100%	1,913.6
Bingham	43.5	94%	22.2	\$ 18,872	22.9	90%	12.3	20.6	98%	1,450.3
Blaine	4.0	19%	8.2	\$ 35,524	4.0	58%	2.7	-	0%	1,588.9
Boise	5.8	83%	3.7	\$ 24,324	5.8	83%	3.7			
Bonner	28.3	68%	23.9	\$ 23,221	24.6	82%	17.4	3.7	33%	1,351.6
Bonneville	56.8	51%	59.8	\$ 22,657	12.1	86%	7.7	44.7	46%	2,190.3
Boundary	7.7	69%	8.9	\$ 19,877	6.8	78%	6.9	1.0	39%	1,259.0
Butte	2.8	100%	1.3	\$ 20,995	2.8	100%	1.3			
Camas	0.7	64%	1.1	\$ 21,830	0.7	64%	1.1			
Canyon	86.6	42%	351.9	\$ 17,755	26.1	67%	75.5	60.5	36%	2,420.5
Caribou	6.4	96%	3.8	\$ 23,586	3.8	95%	2.3	2.7	98%	1,169.2
Cassia	8.4	36%	9.0	\$ 17,801	8.2	68%	4.7	0.2	2%	1,911.5
Clark	1.0	100%	0.5	\$ 20,032	1.0	100%	0.5			
Clearwater	5.4	63%	3.5	\$ 20,256	3.9	77%	2.1	1.4	41%	1,626.4
Custer	3.3	77%	0.9	\$ 23,965	3.3	77%	0.9			
Elmore	3.9	15%	8.3	\$ 20,646	3.8	63%	2.0	0.0	0%	1,274.9
Franklin	12.2	93%	19.8	\$ 17,620	7.7	89%	13.2	4.4	100%	1,482.2
Fremont	13.3	100%	7.1	\$ 19,475	9.6	100%	5.2	3.7	100%	1,972.9
Gem	14.3	84%	30.4	\$ 20,250	6.7	88%	13.7	7.6	81%	1,670.9
Gooding	15.3	98%	21.3	\$ 18,373	8.8	97%	12.4	6.5	100%	2,773.2
Idaho	15.7	96%	1.9	\$ 19,168	12.6	95%	1.6	3.1	100%	2,037.4
Jefferson	22.9	80%	26.3	\$ 19,598	15.6	83%	17.4	7.3	74%	1,180.4
Jerome	13.8	59%	39.5	\$ 17,182	8.1	67%	20.3	5.8	50%	2,615.1
Kootenai	18.9	13%	118.7	\$ 24,685	18.9	54%	29.4	0.0	0%	2,259.1
Latah	10.6	28%	34.8	\$ 22,322	10.6	82%	12.1	-	0%	4,152.0
Lemhi	5.8	74%	1.7	\$ 23,998	4.2	87%	1.0	1.6	52%	1,526.8
Lewis	3.5	92%	7.9	\$ 19,910	3.5	92%	7.9			
Lincoln	3.7	68%	4.5	\$ 16,530	3.7	68%	4.5			
Madison	38.4	94%	87.4	\$ 15,133	10.7	95%	24.5	27.7	93%	4,213.8
Minidoka	15.0	76%	26.1	\$ 19,597	6.8	79%	11.5	8.2	73%	1,585.9
Nez Perce	26.8	68%	46.6	\$ 24,257	7.6	100%	9.2	19.2	60%	1,968.5
Oneida	4.3	100%	3.5	\$ 18,920	4.3	100%	3.5			
Owyhee	6.3	55%	1.5	\$ 15,945	6.3	70%	1.2	-	0%	2,739.4
Payette	19.4	84%	56.9	\$ 19,165	8.3	84%	24.7	11.1	84%	2,062.6
Power	7.3	94%	5.6	\$ 17,684	2.8	85%	2.3	4.6	100%	3,163.0
Shoshone	12.2	99%	4.7	\$ 20,487	6.8	98%	2.6	5.4	100%	1,689.3
Teton	8.4	73%	25.8	\$ 22,436	8.4	73%	25.8			
Twin Falls	59.8	73%	42.4	\$ 20,588	19.1	85%	11.9	40.7	69%	2,833.5

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Valley	4.4	45%	2.7	\$ 25,785	4.4	45%	2.7			
Washington	10.1	99%	7.0	\$ 20,380	4.6	100%	3.2	5.5	99%	2,249.9
<b>Illinois</b>	<b>709.6</b>	<b>5%</b>	<b>233.4</b>		<b>570.2</b>	<b>39%</b>	<b>28.3</b>	<b>139.4</b>	<b>1%</b>	<b>2,914.5</b>
Adams	15.5	23%	77.9	\$ 24,217	14.7	70%	25.3	0.7	2%	1,928.7
Alexander	7.6	99%	32.7	\$ 13,619	4.9	98%	21.2	2.8	100%	1,173.0
Bond	8.0	45%	46.5	\$ 23,195	7.9	73%	28.6	0.1	1%	2,022.4
Boone	3.9	7%	207.1	\$ 25,888	3.8	36%	41.9	0.1	0%	1,754.9
Brown	6.3	93%	22.2	\$ 20,555	2.3	82%	9.2	4.0	100%	2,705.1
Bureau	8.8	25%	39.6	\$ 26,705	8.6	45%	22.5	0.1	1%	1,392.9
Calhoun	3.8	75%	19.9	\$ 26,924	3.8	75%	19.9			
Carroll	4.0	27%	33.2	\$ 27,118	4.0	33%	27.4	-	0%	1,759.7
Cass	12.2	91%	35.8	\$ 22,257	5.6	82%	18.4	6.6	100%	2,276.0
Champaign	1.4	1%	207.9	\$ 25,713	0.7	3%	26.6	0.6	0%	2,856.3
Christian	0.9	3%	48.4	\$ 23,915	0.9	6%	21.2	-	0%	1,611.0
Clark	5.5	34%	31.9	\$ 24,296	5.5	58%	19.0	-	0%	1,584.7
Clay	7.1	53%	28.7	\$ 22,279	7.1	83%	18.4	0.0	1%	2,160.5
Clinton	10.5	28%	80.1	\$ 27,802	10.5	57%	40.0	0.0	0%	1,751.2
Coles	7.9	15%	106.4	\$ 21,970	7.9	62%	25.9	0.0	0%	2,298.6
Cook	32.2	1%	5,457.1	\$ 30,183	0.0	2%	48.4	32.2	1%	5,756.3
Crawford	5.8	30%	43.8	\$ 25,214	5.8	49%	26.8	-	0%	1,426.2
Cumberland	6.2	57%	31.5	\$ 22,952	6.2	57%	31.5			
DeKalb	13.1	12%	175.7	\$ 23,696	7.6	34%	37.0	5.4	6%	2,742.2
De Witt	1.6	10%	40.9	\$ 26,704	1.5	19%	20.5	0.1	1%	1,865.6
Douglas	3.5	18%	47.2	\$ 23,732	3.5	29%	29.4	0.0	0%	1,762.4
DuPage	8.4	1%	2,806.6	\$ 38,570	0.0	7%	20.8	8.4	1%	2,988.8
Edgar	5.5	31%	28.8	\$ 23,368	5.5	60%	14.9	-	0%	1,822.1
Edwards	3.6	55%	29.4	\$ 20,898	3.6	55%	29.4			
Effingham	12.2	36%	71.1	\$ 27,051	12.2	61%	42.7	0.0	0%	1,631.2
Fayette	8.9	41%	30.7	\$ 21,523	8.9	60%	20.9	-	0%	1,694.8
Ford	0.1	1%	26.5	\$ 25,448	0.1	3%	9.9	-	0%	1,991.1
Franklin	7.7	19%	96.5	\$ 20,394	7.3	38%	48.8	0.3	2%	1,560.6
Fulton	12.0	33%	42.0	\$ 22,318	9.4	43%	25.3	2.6	18%	2,261.4
Gallatin	2.3	43%	16.3	\$ 23,862	2.3	43%	16.3			
Greene	3.7	28%	24.7	\$ 22,307	3.7	38%	17.9	0.0	1%	1,716.1
Grundy	1.0	2%	130.2	\$ 28,725	0.9	7%	31.3	0.1	0%	1,864.4
Hamilton	4.9	58%	19.2	\$ 21,960	4.9	85%	13.2	-	0%	1,724.1
Hancock	7.7	42%	23.4	\$ 23,714	7.7	59%	16.5	0.1	1%	1,425.3
Hardin	1.5	35%	23.2	\$ 22,366	1.5	35%	23.2			
Henderson	4.2	61%	18.2	\$ 25,902	4.2	61%	18.1	0.0	100%	133.5
Henry	8.1	16%	60.4	\$ 27,117	8.1	33%	30.4	0.0	0%	1,951.3
Iroquois	2.0	7%	25.9	\$ 25,098	1.9	9%	18.6	0.2	2%	1,418.5
Jackson	11.8	19%	104.2	\$ 20,527	11.4	51%	39.9	0.4	1%	1,757.4
Jasper	5.8	62%	19.1	\$ 24,174	5.8	89%	13.4	-	0%	1,258.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Jefferson	15.6	41%	67.0	\$ 22,620	15.6	70%	40.0	-	0%	1,473.0
Jersey	5.0	22%	63.3	\$ 25,467	5.0	36%	38.8	-	0%	1,730.4
Jo Daviess	6.7	30%	37.5	\$ 29,675	6.7	41%	27.5	0.0	0%	1,164.3
Johnson	9.4	76%	36.2	\$ 18,763	9.4	76%	36.2			
Kane	10.7	2%	1,059.0	\$ 30,082	5.5	28%	65.6	5.3	1%	2,437.8
Kankakee	5.9	5%	172.5	\$ 23,779	5.4	20%	42.8	0.6	1%	2,295.4
Kendall	3.7	3%	423.7	\$ 31,276	3.0	22%	50.4	0.7	1%	2,419.6
Knox	8.8	17%	72.0	\$ 22,093	7.0	57%	17.9	1.8	5%	1,656.1
Lake	14.8	2%	1,624.2	\$ 38,018	1.1	11%	92.2	13.8	2%	2,093.8
LaSalle	16.8	15%	100.8	\$ 25,709	16.6	49%	31.3	0.3	0%	1,821.9
Lawrence	3.9	23%	45.9	\$ 14,147	3.9	39%	27.8	-	0%	1,263.0
Lee	8.5	24%	50.0	\$ 25,409	5.5	29%	26.6	3.0	17%	1,746.1
Livingston	0.4	1%	36.6	\$ 24,952	0.4	3%	14.9	-	0%	2,066.1
Logan	6.6	22%	47.8	\$ 21,445	3.1	27%	18.9	3.5	20%	1,919.5
McDonough	3.6	11%	54.7	\$ 20,042	3.5	39%	15.5	0.1	0%	2,279.9
McHenry	14.2	4%	536.1	\$ 32,341	11.2	36%	67.8	3.0	1%	2,032.7
McLean	5.2	3%	148.1	\$ 30,460	5.0	18%	24.2	0.2	0%	2,707.2
Macon	2.5	2%	188.1	\$ 26,232	2.3	14%	31.5	0.3	0%	1,567.8
Macoupin	2.6	6%	54.4	\$ 24,658	2.6	10%	32.2	-	0%	1,837.6
Madison	7.7	3%	379.4	\$ 27,407	5.8	16%	64.9	1.8	1%	1,558.4
Marion	11.6	30%	67.2	\$ 21,887	11.6	67%	31.0	0.0	0%	1,513.9
Marshall	2.8	23%	31.7	\$ 25,975	2.8	23%	31.7			
Mason	13.0	93%	26.0	\$ 23,199	9.7	90%	20.0	3.3	100%	1,445.2
Massac	4.8	31%	64.8	\$ 22,047	4.8	62%	32.9	0.0	0%	1,928.5
Menard	8.0	63%	40.2	\$ 28,330	5.0	52%	31.0	3.0	100%	1,228.5
Mercer	6.6	41%	28.7	\$ 26,620	6.6	53%	22.3	-	0%	1,635.6
Monroe	5.0	15%	89.9	\$ 31,758	5.0	37%	36.0	0.0	0%	1,639.5
Montgomery	1.1	4%	42.1	\$ 19,917	1.1	9%	17.2	-	0%	1,357.8
Morgan	5.0	14%	61.4	\$ 24,337	5.0	40%	22.5	0.0	0%	1,921.1
Moultrie	6.9	46%	44.5	\$ 23,786	6.9	66%	31.4	0.0	0%	1,409.3
Ogle	7.3	14%	70.2	\$ 26,635	7.0	29%	33.3	0.3	1%	1,504.9
Peoria	13.9	7%	303.0	\$ 28,438	13.2	48%	51.0	0.7	0%	1,948.8
Perry	5.2	23%	49.8	\$ 19,716	4.7	49%	22.1	0.4	4%	1,614.9
Piatt	0.1	0%	38.0	\$ 31,190	0.1	1%	25.7	-	0%	1,580.2
Pike	6.8	43%	19.2	\$ 21,344	6.1	53%	13.8	0.7	16%	1,666.4
Pope	3.1	70%	12.1	\$ 20,448	3.1	70%	12.1			
Pulaski	3.1	54%	28.3	\$ 19,867	3.1	54%	28.3			
Putnam	2.5	42%	36.9	\$ 27,074	2.5	42%	36.9			
Randolph	5.2	16%	57.3	\$ 21,976	5.2	40%	23.2	0.0	0%	1,722.7
Richland	4.6	29%	44.6	\$ 23,621	4.6	70%	18.8	-	0%	1,368.5
Rock Island	5.1	3%	344.0	\$ 26,455	5.0	33%	42.3	0.0	0%	1,907.9
St. Clair	10.8	4%	416.1	\$ 26,234	3.8	14%	53.7	7.0	3%	1,557.5
Saline	8.6	35%	63.7	\$ 21,596	8.3	79%	28.4	0.3	2%	1,392.3
Sangamon	4.5	2%	229.8	\$ 29,974	2.7	10%	36.4	1.7	1%	1,773.9



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Schuyler	7.6	100%	17.4	\$ 23,656	4.6	100%	10.5	3.1	100%	2,228.8
Scott	4.0	76%	20.8	\$ 24,471	4.0	76%	20.8			
Shelby	10.4	47%	28.8	\$ 23,069	10.4	61%	22.6	-	0%	1,587.8
Stark	2.1	36%	20.1	\$ 26,843	2.1	36%	20.1			
Stephenson	5.8	12%	83.2	\$ 23,350	5.8	31%	34.0	0.0	0%	1,857.7
Tazewell	5.8	4%	212.1	\$ 28,037	5.1	19%	46.8	0.7	1%	1,827.8
Union	7.4	42%	42.6	\$ 21,719	7.4	64%	28.5	-	0%	1,489.7
Vermilion	14.2	18%	89.2	\$ 21,225	8.2	33%	28.5	5.9	11%	1,737.5
Wabash	4.2	36%	51.6	\$ 24,096	4.2	94%	20.4	-	0%	1,782.4
Warren	15.4	89%	31.7	\$ 21,832	5.9	76%	14.3	9.5	100%	2,453.0
Washington	6.9	48%	25.6	\$ 26,325	6.9	65%	18.8	0.0	1%	1,180.8
Wayne	9.6	58%	23.1	\$ 22,526	9.6	82%	16.5	-	0%	1,669.3
White	3.9	28%	28.9	\$ 25,375	3.9	45%	17.9	-	0%	2,209.2
Whiteside	8.2	14%	84.0	\$ 24,525	7.3	34%	32.6	0.9	3%	1,854.2
Will	1.7	0%	873.1	\$ 30,377	1.3	5%	53.4	0.4	0%	2,153.2
Williamson	14.4	21%	161.0	\$ 23,605	14.2	60%	61.3	0.2	0%	1,216.1
Winnebago	6.0	2%	585.0	\$ 24,495	4.0	17%	61.4	2.0	1%	2,009.5
Woodford	6.7	17%	75.2	\$ 30,926	6.7	31%	41.8	-	0%	1,691.4
<b>Indiana</b>	<b>947.1</b>	<b>14%</b>	<b>184.4</b>		<b>786.7</b>	<b>44%</b>	<b>53.8</b>	<b>160.4</b>	<b>3%</b>	<b>1,907.1</b>
Adams	10.4	30%	102.3	\$ 20,160	10.2	54%	57.7	0.2	1%	1,385.3
Allen	13.0	4%	552.0	\$ 25,279	10.9	26%	87.2	2.1	1%	1,867.3
Bartholomew	8.7	11%	193.0	\$ 27,359	6.4	25%	66.9	2.3	4%	2,048.9
Benton	5.5	64%	21.1	\$ 23,049	5.5	64%	21.1			
Blackford	3.7	30%	74.1	\$ 20,322	3.4	56%	38.2	0.3	5%	1,391.5
Boone	10.0	17%	142.2	\$ 37,482	9.8	50%	48.8	0.1	0%	1,833.8
Brown	10.7	70%	48.7	\$ 25,833	10.7	70%	48.7			
Carroll	6.9	34%	53.6	\$ 24,531	6.9	42%	44.1	-	0%	1,648.3
Cass	11.1	29%	92.3	\$ 21,700	10.3	60%	42.5	0.8	4%	1,693.8
Clark	8.5	7%	309.1	\$ 24,312	7.4	32%	74.6	1.1	1%	1,616.7
Clay	10.8	42%	72.7	\$ 21,474	10.7	69%	44.1	0.2	2%	1,839.0
Clinton	8.1	24%	81.6	\$ 21,554	7.8	47%	41.3	0.3	2%	2,149.7
Crawford	4.2	39%	34.5	\$ 20,504	4.2	39%	34.5			
Daviess	22.5	70%	75.5	\$ 21,416	14.0	70%	47.7	8.5	69%	1,835.5
Dearborn	8.7	17%	168.0	\$ 27,058	8.3	31%	94.3	0.4	2%	1,258.8
Decatur	9.4	36%	69.6	\$ 22,046	9.3	67%	37.8	0.2	1%	1,825.0
DeKalb	11.6	27%	117.7	\$ 22,827	10.6	59%	51.3	1.1	4%	1,914.1
Delaware	8.6	7%	296.4	\$ 20,854	6.4	25%	74.9	2.2	2%	1,885.6
Dubois	9.2	22%	99.7	\$ 25,589	8.7	42%	50.4	0.5	2%	1,585.7
Elkhart	22.1	11%	436.9	\$ 21,109	14.9	35%	116.5	7.2	4%	1,564.7
Fayette	4.3	18%	110.3	\$ 18,757	4.0	45%	42.9	0.4	2%	1,704.0
Floyd	2.6	3%	513.7	\$ 27,185	2.5	16%	141.4	0.1	0%	1,499.0
Fountain	7.7	46%	42.7	\$ 23,063	7.7	69%	28.4	0.0	0%	2,109.6
Franklin	13.6	58%	60.6	\$ 24,085	13.5	65%	54.1	0.2	6%	1,000.5

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Fulton	5.5	27%	56.6	\$ 21,226	5.5	41%	36.8	-	0%	1,733.0
Gibson	10.4	31%	68.9	\$ 24,258	8.8	49%	37.8	1.5	10%	2,269.1
Grant	10.5	15%	165.3	\$ 20,516	8.6	43%	50.6	2.0	4%	1,942.2
Greene	14.2	43%	60.6	\$ 22,235	13.6	55%	46.5	0.6	7%	1,302.9
Hamilton	12.6	4%	772.5	\$ 39,521	7.5	47%	62.4	5.1	2%	2,066.7
Hancock	1.2	2%	244.3	\$ 28,111	1.1	5%	80.5	0.1	0%	1,462.5
Harrison	19.8	49%	84.2	\$ 23,244	19.6	56%	72.8	0.2	3%	1,547.3
Hendricks	8.4	5%	389.8	\$ 29,830	4.1	15%	81.3	4.3	3%	1,659.0
Henry	2.6	5%	125.9	\$ 20,309	2.5	12%	56.0	0.2	1%	1,790.3
Howard	3.9	5%	278.4	\$ 24,071	3.4	19%	68.7	0.6	1%	1,683.6
Huntington	6.1	17%	95.8	\$ 22,601	6.0	32%	50.2	0.0	0%	1,655.1
Jackson	10.4	25%	82.8	\$ 22,568	10.1	55%	37.2	0.3	1%	1,573.1
Jasper	13.7	40%	61.8	\$ 24,297	8.6	37%	42.6	5.1	46%	1,712.1
Jay	6.2	29%	54.7	\$ 19,236	6.1	52%	30.9	0.1	1%	1,866.8
Jefferson	10.7	33%	90.4	\$ 21,524	10.7	73%	42.2	0.1	0%	1,374.7
Jennings	10.7	37%	76.2	\$ 20,109	10.7	62%	46.5	0.1	1%	1,376.1
Johnson	7.3	5%	461.7	\$ 28,575	6.2	30%	76.6	1.1	1%	2,337.1
Knox	17.7	47%	73.7	\$ 21,047	11.5	83%	27.4	6.2	26%	1,927.2
Kosciusko	10.7	14%	147.4	\$ 24,881	8.8	24%	73.1	1.9	5%	1,135.8
LaGrange	23.6	62%	100.3	\$ 19,356	23.4	67%	92.8	0.2	6%	1,421.1
Lake	7.2	1%	1,002.6	\$ 23,918	2.0	10%	78.6	5.3	1%	2,029.9
LaPorte	7.4	7%	187.8	\$ 22,852	6.7	17%	69.6	0.7	1%	1,782.9
Lawrence	19.6	42%	102.6	\$ 22,169	15.0	54%	64.0	4.6	25%	1,244.0
Madison	13.5	10%	289.9	\$ 21,527	8.5	28%	79.0	5.1	5%	1,410.4
Marion	4.1	0%	2,321.0	\$ 24,124	0.1	2%	157.7	4.0	0%	2,543.9
Marshall	12.4	26%	107.1	\$ 21,933	11.7	39%	69.5	0.7	4%	1,529.0
Martin	8.1	78%	30.6	\$ 22,817	6.1	81%	22.5	2.0	73%	1,620.3
Miami	10.4	28%	98.3	\$ 20,475	10.2	62%	45.8	0.2	1%	1,486.9
Monroe	6.0	4%	364.1	\$ 23,032	5.4	18%	86.3	0.5	0%	2,532.7
Montgomery	16.7	44%	75.8	\$ 22,679	16.4	82%	40.8	0.3	1%	1,518.7
Morgan	17.6	25%	172.1	\$ 25,781	10.7	32%	89.1	6.9	19%	1,302.0
Newton	3.9	28%	34.9	\$ 25,594	3.9	28%	34.9			
Noble	13.2	28%	116.6	\$ 21,889	12.8	39%	80.5	0.4	3%	2,060.9
Ohio	3.0	48%	72.1	\$ 25,443	3.0	48%	72.1			
Orange	16.3	82%	49.9	\$ 18,576	13.0	79%	41.9	3.3	100%	1,436.2
Owen	11.1	52%	55.5	\$ 21,318	11.1	52%	55.5			
Parke	11.5	67%	38.6	\$ 20,534	9.7	75%	29.4	1.8	42%	910.1
Perry	9.0	46%	50.8	\$ 20,934	8.7	81%	28.5	0.3	4%	1,824.0
Pike	9.3	73%	38.1	\$ 22,245	9.3	73%	38.1			
Porter	5.6	3%	407.7	\$ 28,669	3.1	9%	105.7	2.4	2%	1,454.0
Posey	13.8	55%	61.8	\$ 29,187	13.3	78%	42.3	0.6	7%	942.8
Pulaski	11.5	88%	30.2	\$ 21,641	9.0	85%	24.4	2.5	100%	1,803.4
Putnam	8.9	23%	79.9	\$ 21,520	8.7	36%	51.4	0.2	1%	1,996.4
Randolph	9.6	37%	56.4	\$ 21,592	9.0	58%	34.9	0.5	6%	1,980.5

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Ripley	15.0	51%	65.6	\$ 22,059	15.0	61%	54.9	0.0	1%	1,712.2
Rush	6.6	39%	41.5	\$ 23,396	6.5	63%	25.6	0.0	1%	1,568.3
St. Joseph	10.4	4%	582.5	\$ 23,509	4.6	19%	72.6	5.7	2%	1,897.3
Scott	5.2	21%	128.5	\$ 20,481	5.2	40%	70.3	-	0%	1,596.4
Shelby	10.6	24%	108.5	\$ 24,459	9.9	43%	57.7	0.7	3%	1,951.7
Spencer	10.6	50%	52.8	\$ 23,641	10.6	50%	52.8			
Starke	7.7	33%	75.3	\$ 19,773	7.6	40%	62.5	0.2	4%	1,537.2
Steuben	10.5	31%	110.6	\$ 23,975	10.1	44%	76.2	0.4	4%	1,243.2
Sullivan	6.8	33%	45.8	\$ 19,821	6.8	43%	35.9	-	0%	2,017.5
Switzerland	9.1	82%	49.9	\$ 20,019	9.1	82%	49.9			
Tippecanoe	13.4	7%	363.4	\$ 23,691	8.8	34%	59.8	4.6	3%	2,426.5
Tipton	3.8	24%	59.8	\$ 25,093	3.7	39%	37.3	0.0	0%	1,865.4
Union	3.0	40%	46.5	\$ 20,883	3.0	40%	46.5			
Vanderburgh	2.5	1%	781.1	\$ 24,378	2.4	15%	110.4	0.0	0%	2,003.4
Vermillion	6.0	38%	61.4	\$ 22,875	5.8	61%	37.5	0.2	3%	1,623.0
Vigo	33.4	31%	267.6	\$ 21,192	18.9	75%	70.7	14.5	18%	1,734.0
Wabash	9.6	30%	77.6	\$ 21,201	9.5	60%	39.6	0.1	1%	2,136.9
Warren	6.0	72%	23.1	\$ 27,390	6.0	92%	18.0	0.0	2%	820.9
Warrick	44.6	72%	161.4	\$ 29,927	12.2	69%	48.4	32.4	73%	2,124.1
Washington	13.2	46%	55.4	\$ 21,370	13.2	60%	43.0	-	0%	1,691.6
Wayne	10.4	15%	169.1	\$ 21,114	9.5	43%	59.6	0.9	2%	1,760.4
Wells	6.6	24%	75.0	\$ 24,269	6.3	46%	38.6	0.3	2%	1,588.5
White	4.1	17%	47.8	\$ 23,666	3.9	24%	33.0	0.2	2%	1,295.1
Whitley	10.6	31%	101.5	\$ 24,613	10.2	43%	73.1	0.3	3%	1,507.6
<b>Iowa</b>	<b>761.3</b>	<b>25%</b>	<b>55.3</b>		<b>651.9</b>	<b>60%</b>	<b>19.7</b>	<b>109.5</b>	<b>5%</b>	<b>2,107.8</b>
Adair	4.6	63%	12.9	\$ 25,564	4.6	63%	12.9			
Adams	2.1	56%	9.0	\$ 23,707	2.1	56%	9.0			
Allamakee	10.8	76%	22.3	\$ 24,926	7.2	68%	16.7	3.6	100%	1,873.9
Appanoose	6.3	50%	25.1	\$ 21,599	6.3	87%	14.7	-	0%	1,567.9
Audubon	3.6	61%	13.2	\$ 30,919	3.6	61%	13.2			
Benton	13.9	54%	36.4	\$ 26,624	13.9	66%	29.4	0.0	0%	2,090.0
Black Hawk	6.5	5%	234.8	\$ 24,273	6.5	37%	34.8	0.0	0%	1,852.8
Boone	9.4	36%	45.8	\$ 27,149	9.4	71%	23.5	0.0	0%	1,344.2
Bremer	6.6	27%	56.4	\$ 28,727	6.6	42%	36.5	-	0%	1,334.6
Buchanan	12.2	58%	36.7	\$ 27,038	12.1	85%	25.3	0.0	0%	1,913.3
Buena Vista	6.2	31%	35.2	\$ 22,899	6.2	72%	15.1	-	0%	3,068.0
Butler	9.1	62%	25.3	\$ 25,269	9.1	62%	25.3			
Calhoun	4.0	44%	15.8	\$ 25,766	4.0	44%	15.8			
Carroll	7.4	36%	36.3	\$ 25,430	7.4	70%	18.7	-	0%	2,198.9
Cass	6.4	47%	24.2	\$ 25,448	6.4	89%	12.8	-	0%	2,297.9
Cedar	6.1	34%	31.3	\$ 26,567	6.1	40%	26.2	-	0%	2,151.7
Cerro Gordo	4.0	9%	76.5	\$ 27,291	4.0	46%	16.0	0.1	0%	1,533.3
Cherokee	4.6	40%	20.1	\$ 26,330	4.6	66%	12.2	-	0%	2,484.8

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Chickasaw	5.7	47%	24.2	\$ 24,139	5.7	63%	17.8	0.0	0%	2,138.4
Clarke	2.4	26%	21.4	\$ 23,472	2.4	56%	10.2	-	0%	1,468.5
Clay	3.5	21%	28.9	\$ 29,060	3.5	64%	9.8	-	0%	1,771.5
Clayton	14.8	83%	23.0	\$ 25,074	14.4	83%	22.2	0.4	66%	1,376.9
Clinton	7.0	14%	70.2	\$ 25,966	7.0	45%	22.9	-	0%	2,124.2
Crawford	7.3	43%	23.8	\$ 22,748	7.2	85%	11.9	0.1	1%	1,989.7
Dallas	8.4	11%	128.9	\$ 35,844	8.2	39%	36.6	0.3	0%	2,466.0
Davis	6.0	68%	17.6	\$ 22,210	6.0	68%	17.6	-	-	-
Decatur	3.1	37%	15.6	\$ 18,845	3.1	37%	15.6	-	-	-
Delaware	10.4	60%	30.2	\$ 26,261	10.4	84%	21.5	-	0%	1,889.0
Des Moines	3.1	8%	95.7	\$ 24,408	3.0	29%	26.3	0.1	0%	1,906.9
Dickinson	2.1	13%	43.9	\$ 31,790	2.1	37%	15.5	-	0%	946.0
Dubuque	13.7	14%	157.2	\$ 26,254	13.7	52%	46.0	0.0	0%	2,104.7
Emmet	2.9	29%	25.5	\$ 27,908	2.9	74%	10.1	-	0%	2,130.7
Fayette	6.5	32%	27.9	\$ 23,391	6.5	45%	19.7	-	0%	1,872.7
Floyd	7.7	48%	32.0	\$ 24,590	7.7	92%	16.8	-	0%	1,944.7
Franklin	4.5	43%	18.0	\$ 26,102	4.5	72%	10.7	-	0%	2,126.5
Fremont	6.9	97%	13.9	\$ 26,930	6.9	97%	13.9	-	-	-
Greene	8.9	100%	15.6	\$ 26,205	5.1	100%	9.0	3.8	100%	1,553.1
Grundy	4.7	38%	24.8	\$ 31,164	4.7	38%	24.8	-	-	-
Guthrie	9.6	91%	18.0	\$ 28,030	9.6	91%	18.0	-	-	-
Hamilton	5.5	36%	26.4	\$ 24,510	5.5	73%	13.2	-	0%	1,828.9
Hancock	5.0	45%	19.3	\$ 25,814	5.0	65%	13.3	-	0%	1,548.7
Hardin	8.2	48%	29.9	\$ 25,153	8.2	69%	21.1	-	0%	1,489.6
Harrison	14.6	100%	21.0	\$ 26,184	11.8	100%	17.0	2.8	100%	2,054.9
Henry	7.7	39%	46.0	\$ 22,687	7.7	69%	26.4	-	0%	1,503.1
Howard	4.6	49%	19.8	\$ 24,286	4.6	78%	12.4	-	0%	2,129.1
Humboldt	3.4	36%	21.9	\$ 26,746	3.4	81%	9.8	-	0%	1,696.6
Ida	3.2	47%	15.7	\$ 25,869	3.2	47%	15.7	-	-	-
Iowa	7.4	45%	28.0	\$ 28,068	7.4	55%	23.0	-	0%	1,488.7
Jackson	10.8	55%	30.9	\$ 24,493	8.4	81%	16.4	2.5	27%	1,888.9
Jasper	11.9	33%	49.9	\$ 24,905	11.8	57%	29.0	0.0	0%	1,876.4
Jefferson	4.9	29%	38.7	\$ 27,593	4.9	74%	15.4	-	0%	1,490.3
Johnson	9.3	7%	225.1	\$ 29,592	7.7	31%	42.9	1.6	1%	2,497.4
Jones	8.0	39%	35.9	\$ 26,762	8.0	66%	21.0	-	0%	2,670.6
Keokuk	6.2	62%	17.4	\$ 22,243	6.2	62%	17.4	-	-	-
Kossuth	6.7	45%	15.3	\$ 29,127	6.7	70%	9.9	-	0%	1,997.9
Lee	9.7	28%	68.0	\$ 22,649	9.7	68%	28.1	-	0%	1,995.4
Linn	20.9	10%	305.3	\$ 29,943	18.3	66%	43.7	2.7	1%	2,202.9
Louisa	4.2	38%	27.4	\$ 24,272	4.2	38%	27.4	-	-	-
Lucas	4.0	47%	20.1	\$ 21,126	4.0	82%	11.5	-	0%	1,605.1
Lyon	1.8	16%	19.4	\$ 23,683	1.8	16%	19.4	-	-	-
Madison	6.4	39%	28.8	\$ 27,685	6.4	57%	19.9	-	0%	2,679.7
Mahaska	6.1	27%	39.2	\$ 23,788	6.1	63%	17.3	-	0%	1,333.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Marion	9.1	27%	60.8	\$ 25,477	9.0	54%	30.7	0.1	1%	1,788.2
Marshall	9.9	24%	71.9	\$ 24,117	9.9	72%	24.3	-	0%	2,405.2
Mills	7.1	47%	34.6	\$ 27,101	6.7	74%	20.9	0.4	7%	1,428.6
Mitchell	6.5	61%	22.7	\$ 24,518	6.5	92%	15.2	-	0%	1,864.1
Monona	8.1	91%	12.8	\$ 24,557	5.5	88%	9.0	2.6	100%	1,731.6
Monroe	3.1	39%	18.2	\$ 24,508	3.1	70%	10.1	-	0%	1,641.6
Montgomery	3.1	31%	24.2	\$ 22,868	3.1	65%	11.5	0.0	0%	2,070.4
Muscatine	6.7	16%	98.9	\$ 25,038	6.7	61%	26.2	-	0%	1,851.9
O'Brien	10.7	77%	24.3	\$ 28,086	6.2	68%	15.9	4.5	93%	2,388.9
Osceola	5.4	87%	15.4	\$ 24,653	2.7	78%	8.7	2.7	100%	2,487.4
Page	3.2	21%	28.9	\$ 23,496	3.2	63%	9.5	-	0%	1,617.4
Palo Alto	2.8	31%	16.0	\$ 25,055	2.8	52%	9.7	-	0%	1,924.7
Plymouth	7.2	29%	28.9	\$ 27,942	7.2	46%	18.0	0.0	0%	2,356.1
Pocahontas	3.6	53%	11.7	\$ 25,556	3.6	53%	11.7			
Polk	7.4	2%	790.5	\$ 30,442	5.8	25%	57.8	1.6	0%	2,356.5
Pottawattamie	20.6	22%	100.0	\$ 25,847	19.0	76%	27.3	1.5	2%	2,076.0
Poweshiek	9.3	49%	32.1	\$ 25,318	9.3	95%	16.7	-	0%	2,261.7
Ringgold	3.0	61%	9.2	\$ 23,324	3.0	61%	9.2			
Sac	7.7	78%	17.2	\$ 26,350	7.7	78%	17.2			
Scott	6.5	4%	367.4	\$ 28,948	6.1	27%	56.7	0.5	0%	2,254.1
Shelby	6.4	55%	19.8	\$ 26,387	6.4	94%	11.6	-	0%	2,318.0
Sioux	7.7	22%	44.7	\$ 24,324	7.7	45%	22.6	0.0	0%	1,945.6
Story	9.1	10%	163.0	\$ 25,986	8.8	59%	27.3	0.3	0%	2,606.9
Tama	7.2	41%	24.3	\$ 25,311	7.2	57%	17.5	-	0%	2,226.4
Taylor	3.1	52%	11.2	\$ 23,793	3.1	52%	11.2			
Union	3.3	26%	29.7	\$ 23,007	3.3	67%	11.7	0.0	0%	1,947.0
Van Buren	7.4	100%	15.3	\$ 21,368	7.4	100%	15.3			
Wapello	5.6	16%	81.9	\$ 22,699	5.5	52%	25.4	0.1	0%	1,793.6
Warren	11.3	23%	84.9	\$ 29,088	11.3	57%	35.7	0.0	0%	2,161.7
Washington	7.3	33%	38.5	\$ 26,459	7.3	48%	26.9	-	0%	2,488.9
Wayne	2.3	38%	11.8	\$ 22,127	2.3	38%	11.8			
Webster	8.9	24%	51.9	\$ 24,203	8.9	71%	17.7	0.1	0%	1,932.7
Winnebago	5.4	52%	26.2	\$ 24,547	5.4	79%	17.2	-	0%	1,807.4
Winneshiek	5.6	27%	30.2	\$ 25,062	5.6	47%	17.5	-	0%	1,714.6
Woodbury	88.3	86%	117.8	\$ 23,269	11.3	63%	21.3	77.0	91%	2,239.1
Worth	3.7	51%	18.5	\$ 26,187	3.7	51%	18.5			
Wright	3.8	30%	21.9	\$ 25,827	3.8	54%	12.3	-	0%	1,993.9
<b>Kansas</b>	<b>793.9</b>	<b>27%</b>	<b>35.6</b>		<b>512.3</b>	<b>71%</b>	<b>8.9</b>	<b>281.6</b>	<b>13%</b>	<b>2,251.1</b>
Allen	3.4	26%	25.7	\$ 20,552	3.3	45%	14.8	0.1	2%	1,798.5
Anderson	7.9	100%	13.7	\$ 22,139	4.7	100%	8.1	3.3	99%	1,656.1
Atchison	16.9	100%	39.2	\$ 21,909	5.6	100%	13.3	11.3	100%	1,873.9
Barber	4.7	100%	4.1	\$ 26,229	4.7	100%	4.1			
Barton	4.9	18%	30.8	\$ 25,800	4.7	56%	9.6	0.2	1%	2,466.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Bourbon	15.0	100%	23.6	\$ 19,340	7.3	100%	11.5	7.7	100%	1,839.5
Brown	9.6	100%	16.8	\$ 21,046	6.5	100%	11.5	3.1	100%	1,420.6
Butler	22.4	34%	46.8	\$ 27,329	19.9	77%	18.4	2.6	6%	1,906.4
Chase	2.5	96%	3.4	\$ 21,775	2.5	96%	3.4			
Chautauqua	3.4	100%	5.2	\$ 21,245	3.4	100%	5.2			
Cherokee	14.2	67%	35.9	\$ 19,580	9.2	89%	17.8	5.0	46%	1,356.8
Cheyenne	2.3	94%	2.5	\$ 23,677	2.3	94%	2.5			
Clark	2.1	100%	2.2	\$ 25,385	2.1	100%	2.2			
Clay	1.0	12%	13.5	\$ 24,503	1.0	23%	6.9	-	0%	1,963.5
Cloud	7.4	80%	13.0	\$ 20,467	2.1	52%	5.5	5.3	100%	2,138.0
Coffey	3.4	40%	13.3	\$ 27,627	3.4	57%	9.5	-	0%	1,498.4
Comanche	0.5	30%	2.3	\$ 21,041	0.5	30%	2.3			
Cowley	8.9	25%	32.1	\$ 21,519	8.0	73%	9.9	0.9	4%	1,621.5
Crawford	6.0	15%	66.5	\$ 20,974	4.8	35%	23.5	1.2	5%	1,954.3
Decatur	1.3	61%	2.4	\$ 27,154	1.3	61%	2.4			
Dickinson	7.1	36%	23.3	\$ 23,895	7.1	57%	14.9	-	0%	2,111.1
Doniphan	7.7	100%	19.6	\$ 22,713	5.3	100%	13.7	2.4	100%	726.2
Douglas	98.8	86%	251.4	\$ 26,342	12.5	99%	29.9	86.3	85%	2,914.1
Edwards	1.2	42%	4.5	\$ 24,714	1.2	42%	4.5			
Elk	2.7	100%	4.1	\$ 20,322	2.7	100%	4.1			
Ellis	1.1	4%	32.0	\$ 24,291	1.1	15%	8.1	-	0%	2,111.5
Ellsworth	2.6	41%	8.9	\$ 22,789	1.7	52%	4.7	0.9	30%	2,318.1
Finney	7.5	20%	28.3	\$ 21,629	4.9	91%	4.2	2.6	8%	2,448.8
Ford	5.4	16%	31.5	\$ 19,994	4.1	65%	5.7	1.4	5%	2,634.2
Franklin	11.0	42%	46.0	\$ 22,979	11.0	80%	24.3	0.0	0%	2,327.0
Geary	13.3	36%	96.5	\$ 21,408	1.9	45%	11.4	11.4	35%	1,788.2
Gove	1.5	58%	2.4	\$ 26,233	1.5	58%	2.4			
Graham	1.6	67%	2.7	\$ 28,146	1.6	67%	2.7			
Grant	1.0	13%	13.5	\$ 26,370	1.0	69%	2.5	-	0%	2,612.7
Gray	5.9	100%	6.8	\$ 25,537	5.9	100%	6.8			
Greeley	1.1	100%	1.4	\$ 32,650	1.1	100%	1.4			
Greenwood	2.9	46%	5.6	\$ 22,280	2.9	74%	3.4	0.0	0%	1,659.2
Hamilton	2.7	100%	2.7	\$ 24,510	2.7	100%	2.7			
Harper	5.4	93%	7.2	\$ 22,820	5.4	93%	7.2			
Harvey	5.7	16%	65.2	\$ 23,775	5.3	50%	20.1	0.4	2%	2,061.7
Haskell	3.3	100%	5.7	\$ 25,114	3.3	100%	5.7			
Hodgeman	1.0	56%	2.1	\$ 30,440	1.0	56%	2.1			
Jackson	8.7	64%	20.7	\$ 24,117	8.7	85%	15.8	-	0%	2,203.4
Jefferson	13.7	72%	36.0	\$ 26,280	13.6	72%	35.6	0.2	71%	948.0
Jewell	2.0	71%	3.1	\$ 23,134	2.0	71%	3.1			
Johnson	12.8	2%	1,221.6	\$ 38,827	6.3	28%	82.8	6.5	1%	2,717.8
Keary	3.7	100%	4.2	\$ 22,292	3.7	100%	4.2			
Kingman	4.3	58%	8.5	\$ 24,026	3.8	84%	5.2	0.4	16%	1,535.1
Kiowa	2.2	100%	3.1	\$ 23,232	2.2	100%	3.1			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Labette	20.9	99%	32.6	\$ 22,394	11.0	99%	17.4	9.9	100%	1,815.0
Lane	1.6	100%	2.2	\$ 31,694	1.6	100%	2.2			
Leavenworth	32.2	41%	170.2	\$ 27,017	22.0	96%	52.7	10.1	18%	2,184.9
Lincoln	2.9	96%	4.2	\$ 23,686	2.9	96%	4.2			
Linn	9.5	100%	15.9	\$ 26,224	9.5	100%	15.9			
Logan	2.6	100%	2.4	\$ 25,328	2.6	100%	2.4			
Lyon	21.9	67%	38.5	\$ 19,789	7.3	87%	10.0	14.6	60%	2,185.1
McPherson	12.0	42%	32.1	\$ 27,462	10.8	86%	14.1	1.3	8%	1,934.3
Marion	7.2	60%	12.8	\$ 22,269	7.2	78%	9.9	-	0%	2,450.3
Marshall	8.9	100%	9.9	\$ 25,262	6.4	100%	7.1	2.5	100%	1,673.5
Meade	4.5	100%	4.6	\$ 21,990	4.5	100%	4.6			
Miami	34.1	100%	59.3	\$ 28,412	16.9	100%	29.8	17.2	100%	1,960.9
Mitchell	5.8	95%	8.7	\$ 26,911	2.6	90%	4.1	3.3	100%	1,804.6
Montgomery	20.5	59%	54.4	\$ 21,332	10.7	69%	24.7	9.8	50%	1,644.7
Morris	5.7	100%	8.2	\$ 24,680	5.7	100%	8.2			
Morton	3.1	100%	4.2	\$ 22,378	3.1	100%	4.2			
Nemaha	9.8	100%	13.7	\$ 24,550	7.3	100%	10.3	2.5	100%	1,658.8
Neosho	5.8	36%	28.5	\$ 21,163	5.5	75%	13.0	0.3	3%	1,678.8
Ness	0.8	28%	2.7	\$ 30,223	0.8	28%	2.7			
Norton	4.8	88%	6.2	\$ 22,942	2.0	75%	3.0	2.8	100%	2,062.1
Osage	8.6	54%	22.7	\$ 24,789	8.6	64%	19.1	-	0%	1,404.7
Osborne	0.8	22%	4.0	\$ 26,313	0.8	22%	4.0			
Ottawa	2.3	38%	8.3	\$ 26,614	2.3	38%	8.3			
Pawnee	2.4	35%	8.9	\$ 23,230	1.4	68%	2.8	0.9	20%	1,693.8
Phillips	1.6	30%	6.1	\$ 23,772	1.6	56%	3.2	-	0%	1,548.6
Pottawatomie	7.0	31%	26.9	\$ 24,892	6.5	49%	15.7	0.5	6%	1,687.0
Pratt	2.6	27%	13.1	\$ 26,209	2.4	79%	4.1	0.2	4%	2,401.9
Rawlins	2.3	99%	2.2	\$ 26,897	2.3	99%	2.2			
Reno	16.9	26%	51.3	\$ 23,382	13.7	69%	16.1	3.1	7%	2,069.0
Republic	3.9	85%	6.4	\$ 25,531	3.9	85%	6.4			
Rice	3.0	31%	13.3	\$ 23,068	2.8	46%	8.4	0.2	6%	2,058.3
Riley	20.8	27%	125.0	\$ 22,948	1.9	22%	14.9	18.9	28%	3,047.6
Rooks	0.9	18%	5.5	\$ 23,768	0.9	18%	5.5			
Rush	2.3	73%	4.4	\$ 24,175	2.3	73%	4.4			
Russell	1.1	16%	7.6	\$ 24,683	1.1	39%	3.1	-	0%	1,947.5
Saline	7.6	13%	78.5	\$ 24,935	6.9	85%	11.6	0.7	1%	2,114.6
Scott	4.9	100%	6.9	\$ 26,274	1.3	100%	1.8	3.7	100%	2,423.3
Sedgwick	32.1	6%	518.4	\$ 25,603	24.1	61%	49.8	8.0	2%	2,309.6
Seward	2.4	10%	36.4	\$ 19,015	2.4	91%	4.1	0.0	0%	2,241.2
Shawnee	17.7	10%	332.9	\$ 26,057	13.5	47%	61.3	4.2	3%	1,923.8
Sheridan	1.2	49%	2.7	\$ 26,841	1.2	49%	2.7			
Sherman	1.9	37%	4.8	\$ 21,476	0.6	86%	0.7	1.2	29%	1,604.9
Smith	0.9	26%	3.9	\$ 26,811	0.9	26%	3.9			
Stafford	4.2	100%	5.3	\$ 23,240	4.2	100%	5.3			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Stanton	2.1	100%	3.0	\$ 21,712	2.1	100%	3.0			
Stevens	5.7	100%	7.8	\$ 24,950	1.9	100%	2.6	3.8	100%	2,312.9
Sumner	11.5	50%	19.6	\$ 22,972	11.1	77%	12.3	0.3	4%	1,859.5
Thomas	7.6	99%	7.1	\$ 26,903	2.2	96%	2.2	5.3	100%	1,777.5
Trego	0.8	29%	3.2	\$ 23,095	0.8	29%	3.2			
Wabaussee	6.7	96%	8.7	\$ 24,199	6.7	96%	8.7			
Wallace	1.4	100%	1.5	\$ 25,429	1.4	100%	1.5			
Washington	4.6	90%	5.7	\$ 22,621	4.6	90%	5.7			
Wichita	2.0	100%	2.8	\$ 23,799	2.0	100%	2.8			
Wilson	9.0	100%	15.8	\$ 19,929	6.4	100%	11.2	2.6	100%	1,813.6
Woodson	1.5	48%	6.2	\$ 21,774	1.5	48%	6.2			
Wyandotte	1.6	1%	1,047.6	\$ 18,957	1.0	10%	138.5	0.5	0%	1,872.1
<b>Kentucky</b>	<b>1,766.7</b>	<b>40%</b>	<b>112.3</b>		<b>1,322.1</b>	<b>73%</b>	<b>47.8</b>	<b>444.6</b>	<b>17%</b>	<b>1,854.6</b>
Adair	17.7	93%	47.1	\$ 17,371	13.2	92%	35.7	4.5	95%	1,399.0
Allen	20.7	100%	60.0	\$ 19,086	16.4	100%	48.1	4.3	100%	1,076.2
Anderson	22.2	100%	110.2	\$ 24,161	9.0	100%	46.2	13.2	100%	1,863.0
Ballard	7.4	90%	33.3	\$ 24,781	7.4	90%	33.3			
Barren	37.3	86%	89.3	\$ 19,745	24.1	87%	58.0	13.2	83%	1,444.1
Bath	11.2	95%	42.2	\$ 16,367	11.2	95%	42.2			
Bell	13.7	49%	78.1	\$ 15,091	13.0	73%	50.4	0.7	7%	1,372.5
Boone	3.2	2%	527.8	\$ 29,235	2.3	14%	93.4	0.9	1%	1,633.8
Bourbon	20.1	100%	69.4	\$ 22,893	8.9	100%	31.4	11.2	100%	2,280.9
Boyd	14.9	30%	308.1	\$ 24,530	9.3	74%	96.4	5.6	15%	1,244.8
Boyle	28.7	100%	159.1	\$ 22,249	9.9	100%	60.0	18.7	100%	1,294.4
Bracken	8.5	100%	41.2	\$ 20,918	8.5	100%	41.2			
Breathitt	13.2	100%	26.9	\$ 14,706	10.6	100%	21.7	2.6	100%	1,198.8
Breckinridge	20.4	100%	36.0	\$ 18,101	20.4	100%	36.0			
Bullitt	8.6	11%	264.2	\$ 24,308	8.3	37%	90.0	0.3	1%	1,236.6
Butler	12.5	100%	29.4	\$ 18,136	12.5	100%	29.4			
Caldwell	5.1	39%	37.6	\$ 20,327	5.1	71%	20.9	0.0	0%	1,203.7
Calloway	5.1	13%	99.0	\$ 21,490	4.9	27%	48.7	0.2	1%	1,716.7
Campbell	3.1	3%	598.8	\$ 26,945	3.1	22%	118.1	0.0	0%	2,260.6
Carlisle	3.3	66%	26.3	\$ 21,500	3.3	66%	26.3			
Carroll	3.1	28%	86.0	\$ 19,429	3.1	52%	46.9	0.1	1%	1,435.9
Carter	27.9	100%	68.1	\$ 19,204	21.9	100%	54.3	5.9	100%	1,106.4
Casey	11.6	72%	36.1	\$ 15,603	11.6	72%	36.1			
Christian	29.3	38%	108.5	\$ 19,773	12.4	59%	30.7	16.9	30%	1,689.4
Clark	36.4	100%	144.2	\$ 24,524	9.9	100%	41.5	26.5	100%	1,867.1
Clay	14.9	71%	44.5	\$ 13,542	12.5	76%	35.3	2.4	53%	1,016.9
Clinton	10.4	100%	52.9	\$ 16,795	10.4	100%	52.9			
Crittenden	5.0	54%	25.9	\$ 21,375	5.0	76%	18.4	0.0	0%	1,633.9
Cumberland	6.7	100%	22.0	\$ 17,697	6.7	100%	22.0			
Daviess	12.2	12%	214.4	\$ 22,963	12.2	46%	61.9	-	0%	2,128.4



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Edmonson	12.6	100%	41.5	\$ 19,481	12.6	100%	41.5			
Elliott	5.2	63%	35.2	\$ 14,040	5.2	63%	35.2			
Estill	14.4	100%	56.9	\$ 16,435	11.0	100%	43.9	3.4	100%	1,829.6
Fayette	6.2	2%	1,084.6	\$ 29,251	3.2	37%	43.8	3.0	1%	3,516.7
Fleming	14.5	100%	41.5	\$ 19,304	11.7	100%	33.8	2.8	100%	1,371.9
Floyd	38.3	100%	97.7	\$ 17,716	32.1	100%	82.8	6.2	98%	1,186.7
Franklin	49.5	100%	238.3	\$ 26,243	13.5	100%	72.4	36.0	100%	1,672.4
Fulton	4.0	63%	31.3	\$ 18,602	4.0	97%	20.3	0.0	2%	1,203.0
Gallatin	3.7	42%	86.5	\$ 19,020	3.7	42%	86.5			
Garrard	17.5	100%	76.2	\$ 21,341	13.8	100%	60.5	3.7	100%	1,646.4
Grant	5.0	20%	98.5	\$ 19,829	5.0	31%	65.2	-	0%	1,105.6
Graves	10.0	27%	67.1	\$ 20,746	9.0	35%	47.3	1.0	9%	1,491.9
Grayson	19.1	73%	52.8	\$ 19,115	18.0	94%	39.1	1.0	15%	1,318.4
Green	11.0	99%	39.0	\$ 17,984	11.0	99%	39.0			
Greenup	16.0	44%	106.8	\$ 22,035	12.2	82%	45.5	3.9	18%	1,151.2
Hancock	8.6	100%	45.7	\$ 22,686	7.7	100%	41.1	0.9	100%	872.6
Hardin	15.6	14%	175.9	\$ 24,147	14.6	39%	66.1	1.0	1%	1,332.8
Harlan	27.4	98%	60.1	\$ 16,257	14.6	96%	33.2	12.9	100%	1,465.5
Harrison	19.1	100%	62.4	\$ 21,424	12.8	100%	42.2	6.3	100%	2,249.4
Hart	15.6	85%	44.7	\$ 17,273	15.5	97%	39.2	0.1	3%	1,159.6
Henderson	17.7	38%	106.7	\$ 22,746	16.6	94%	41.7	1.1	4%	2,074.7
Henry	5.2	34%	53.9	\$ 21,923	5.2	34%	53.9			
Hickman	4.6	97%	19.5	\$ 19,292	4.6	97%	19.5			
Hopkins	41.6	89%	86.4	\$ 22,132	18.2	83%	42.2	23.3	94%	1,310.2
Jackson	13.4	100%	38.9	\$ 15,880	13.4	100%	38.9			
Jefferson	2.4	0%	1,986.7	\$ 27,925	1.8	17%	109.8	0.6	0%	2,627.6
Jessamine	45.6	88%	302.3	\$ 25,637	9.1	70%	82.0	36.6	93%	2,683.9
Johnson	22.4	96%	88.9	\$ 19,445	16.7	98%	66.5	5.8	92%	1,064.3
Kenton	2.0	1%	1,014.6	\$ 27,704	2.0	17%	125.7	0.0	0%	2,170.4
Knott	16.0	100%	45.4	\$ 18,448	16.0	100%	45.4			
Knox	24.7	77%	82.9	\$ 14,367	17.3	87%	53.3	7.4	61%	1,118.3
Larue	6.9	48%	55.2	\$ 19,611	6.8	63%	42.0	0.1	3%	1,857.3
Laurel	40.0	66%	139.6	\$ 19,923	22.9	67%	86.8	17.1	65%	705.3
Lawrence	6.1	38%	38.4	\$ 17,960	6.1	50%	29.7	-	0%	1,403.8
Lee	7.7	99%	37.3	\$ 13,969	7.7	99%	37.3			
Leslie	10.6	97%	27.2	\$ 16,424	10.6	97%	27.2			
Letcher	21.0	87%	71.5	\$ 17,886	21.0	87%	71.5			
Lewis	13.4	98%	28.5	\$ 16,132	13.4	98%	28.5			
Lincoln	21.1	84%	74.9	\$ 17,420	16.4	81%	61.7	4.6	100%	1,280.7
Livingston	6.4	68%	29.9	\$ 19,795	6.4	72%	28.6	-	0%	666.7
Logan	18.3	69%	48.5	\$ 19,143	18.3	90%	37.0	0.1	1%	959.5
Lyon	8.5	100%	39.9	\$ 22,123	8.5	100%	39.9			
McCracken	2.9	4%	262.9	\$ 25,957	2.1	12%	89.0	0.8	2%	1,068.1
McCreary	18.6	100%	43.5	\$ 11,818	18.6	100%	43.5			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
McLean	6.3	67%	36.9	\$ 19,984	6.3	67%	36.9			
Madison	35.0	40%	198.0	\$ 21,800	18.6	57%	80.6	16.4	31%	1,822.7
Magoffin	12.9	97%	43.0	\$ 15,118	12.9	97%	43.0			
Marion	20.2	100%	59.0	\$ 18,865	14.4	100%	42.5	5.8	100%	1,848.1
Marshall	2.8	9%	105.2	\$ 22,381	2.7	10%	91.8	0.1	2%	971.4
Martin	12.0	93%	56.4	\$ 15,525	12.0	93%	56.4			
Mason	17.7	100%	73.8	\$ 23,347	9.9	100%	42.2	7.8	100%	1,536.3
Meade	8.0	27%	97.6	\$ 20,898	6.8	27%	83.1	1.2	26%	1,614.9
Menifee	2.9	48%	30.3	\$ 15,942	2.9	48%	30.3			
Mercer	5.7	27%	86.3	\$ 24,138	5.7	45%	52.0	-	0%	1,677.1
Metcalfe	10.1	100%	34.8	\$ 17,171	10.1	100%	34.8			
Monroe	10.6	100%	32.2	\$ 16,656	10.6	100%	32.2			
Montgomery	27.9	100%	141.1	\$ 20,436	16.8	100%	87.6	11.1	100%	1,890.3
Morgan	4.2	30%	36.1	\$ 16,233	4.2	30%	36.1			
Muhlenberg	31.1	100%	66.7	\$ 20,008	21.4	100%	46.5	9.8	100%	1,260.0
Nelson	43.9	97%	108.8	\$ 23,545	24.7	98%	62.9	19.2	95%	1,191.9
Nicholas	7.1	100%	36.5	\$ 20,450	7.1	100%	36.5			
Ohio	24.1	100%	41.0	\$ 19,005	17.6	100%	30.2	6.5	100%	1,546.2
Oldham	5.6	9%	345.0	\$ 33,591	4.3	34%	92.2	1.4	3%	1,006.4
Owen	7.4	67%	31.1	\$ 23,991	7.4	67%	31.1			
Owsley	4.7	99%	23.8	\$ 13,611	4.7	99%	23.8			
Pendleton	8.2	55%	53.9	\$ 23,122	8.2	55%	53.9			
Perry	28.4	100%	83.7	\$ 18,224	20.9	100%	62.9	7.5	100%	1,085.7
Pike	63.7	100%	81.0	\$ 19,351	55.8	100%	71.6	7.9	100%	1,156.8
Powell	12.5	100%	69.7	\$ 15,174	8.4	100%	47.9	4.1	100%	1,106.8
Pulaski	13.9	21%	98.8	\$ 20,667	13.6	39%	56.1	0.3	1%	870.8
Robertson	2.3	100%	22.8	\$ 17,641	2.3	100%	22.8			
Rockcastle	11.9	69%	54.1	\$ 16,513	11.5	80%	45.7	0.4	13%	1,338.8
Rowan	23.8	100%	84.9	\$ 17,094	15.9	100%	57.8	7.9	100%	1,609.8
Russell	6.1	34%	70.3	\$ 17,107	6.1	34%	70.3			
Scott	10.2	20%	185.2	\$ 27,802	9.5	60%	59.3	0.7	2%	2,178.1
Shelby	9.5	21%	118.6	\$ 27,039	9.5	46%	56.8	0.0	0%	1,516.6
Simpson	5.5	31%	74.9	\$ 19,441	5.4	70%	33.9	0.1	1%	1,800.4
Spencer	7.6	40%	100.8	\$ 26,666	7.6	40%	100.8			
Taylor	7.4	30%	93.8	\$ 18,790	7.3	56%	50.5	0.2	1%	1,541.3
Todd	7.7	61%	33.7	\$ 17,846	7.7	61%	33.7			
Trigg	6.0	40%	34.3	\$ 25,527	6.0	50%	27.4	0.0	1%	1,422.5
Trimble	4.4	49%	59.1	\$ 22,070	4.3	51%	56.1	0.1	11%	669.6
Union	14.6	100%	42.6	\$ 19,464	9.4	100%	27.8	5.2	100%	1,720.3
Warren	11.5	9%	223.7	\$ 23,853	11.5	31%	73.8	0.0	0%	1,862.2
Washington	11.9	100%	40.1	\$ 19,837	11.9	100%	40.1			
Wayne	20.7	98%	46.0	\$ 16,396	13.9	97%	31.5	6.8	100%	1,193.1
Webster	12.0	90%	40.3	\$ 20,337	12.0	90%	40.3			
Whitley	16.2	46%	80.7	\$ 15,960	15.0	65%	54.4	1.1	9%	978.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Wolfe	1.8	24%	33.3	\$ 14,157	1.8	24%	33.3			
Woodford	23.8	93%	134.8	\$ 29,277	7.3	81%	50.7	16.4	100%	1,533.6
<b>Louisiana</b>	<b>1,324.8</b>	<b>29%</b>	<b>106.1</b>		<b>793.5</b>	<b>64%</b>	<b>30.0</b>	<b>531.3</b>	<b>16%</b>	<b>1,701.0</b>
Acadia	20.0	32%	95.6	\$ 19,910	19.3	59%	51.6	0.7	2%	1,819.4
Allen	20.9	81%	33.9	\$ 18,857	13.0	72%	23.8	7.8	100%	1,535.1
Ascension	4.1	3%	408.4	\$ 28,178	3.5	23%	73.9	0.6	1%	1,251.5
Assumption	6.8	29%	69.0	\$ 21,743	3.2	30%	32.5	3.7	29%	1,000.6
Avoyelles	42.4	100%	51.0	\$ 18,006	27.2	100%	33.1	15.2	100%	1,472.7
Beauregard	31.4	86%	31.5	\$ 22,509	24.1	99%	21.4	7.3	61%	880.9
Bienville	13.7	100%	16.9	\$ 18,958	10.9	100%	13.5	2.8	100%	1,019.6
Bossier	65.3	53%	146.7	\$ 27,429	22.7	77%	38.0	42.6	46%	1,500.9
Caddo	35.3	14%	290.9	\$ 24,308	22.5	60%	49.8	12.8	6%	1,689.1
Calcasieu	103.8	53%	183.9	\$ 24,355	28.2	70%	43.4	75.6	49%	1,145.6
Caldwell	9.9	100%	18.7	\$ 22,782	9.9	100%	18.7			
Cameron	5.9	100%	4.6	\$ 29,559	5.9	100%	4.6			
Catahoula	10.2	100%	14.4	\$ 19,970	10.2	100%	14.4			
Claiborne	17.2	100%	22.7	\$ 17,512	14.3	100%	19.0	2.9	100%	919.2
Concordia	20.9	100%	30.0	\$ 16,431	6.9	100%	10.1	14.0	100%	1,446.2
De Soto	19.8	74%	30.7	\$ 21,547	14.0	66%	24.3	5.8	100%	1,432.7
East Baton Rouge	20.1	4%	989.4	\$ 27,505	8.8	29%	117.3	11.3	3%	2,169.9
East Carroll	7.2	100%	17.0	\$ 12,055	2.5	100%	6.0	4.7	100%	1,702.6
East Feliciana	18.2	92%	43.8	\$ 22,099	18.2	92%	43.8			
Evangeline	30.4	91%	50.6	\$ 18,023	19.7	94%	31.9	10.8	85%	1,426.8
Franklin	20.5	100%	32.8	\$ 17,752	15.2	100%	24.5	5.3	100%	1,443.1
Grant	22.4	95%	36.6	\$ 19,018	18.6	94%	30.9	3.8	99%	590.5
Iberia	22.8	31%	127.7	\$ 22,997	13.8	68%	37.9	9.0	17%	1,552.1
Iberville	9.5	28%	53.8	\$ 21,177	8.3	42%	32.2	1.1	8%	1,532.0
Jackson	16.4	100%	28.8	\$ 19,188	10.7	100%	19.0	5.7	100%	1,274.7
Jefferson	15.8	4%	1,451.4	\$ 26,908	0.9	19%	22.9	15.0	4%	4,370.7
Jefferson Davis	18.1	57%	48.5	\$ 21,132	12.6	77%	25.4	5.6	36%	1,339.8
Lafayette	8.3	4%	864.6	\$ 28,901	3.0	15%	152.5	5.3	2%	1,518.9
Lafourche	5.6	6%	91.9	\$ 24,798	3.3	14%	23.1	2.3	3%	1,540.2
La Salle	15.0	100%	24.0	\$ 22,481	11.0	100%	17.7	4.0	100%	903.5
Lincoln	32.8	68%	101.5	\$ 20,633	16.1	85%	42.2	16.6	57%	1,218.1
Livingston	17.2	12%	217.1	\$ 25,076	10.9	19%	98.9	6.2	7%	1,147.0
Madison	11.5	100%	18.4	\$ 13,585	2.8	100%	4.4	8.7	100%	1,941.0
Morehouse	24.1	90%	33.7	\$ 16,683	11.5	86%	17.1	12.5	94%	1,326.5
Natchitoches	23.6	60%	31.6	\$ 20,802	15.5	78%	16.0	8.1	41%	1,676.3
Orleans	13.8	4%	1,886.6	\$ 26,500	0.2	10%	22.1	13.6	4%	4,023.0
Ouachita	14.7	9%	255.0	\$ 21,917	10.3	27%	73.1	4.4	4%	1,428.1
Plaquemines	19.1	91%	26.9	\$ 25,748	3.7	100%	4.9	15.4	89%	729.9
Pointe Coupee	22.8	100%	41.0	\$ 23,742	13.2	100%	24.1	9.6	100%	947.1
Rapides	95.3	72%	100.9	\$ 22,126	44.8	84%	42.2	50.5	63%	1,351.3

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Red River	8.8	100%	22.7	\$ 21,443	8.8	100%	22.7			
Richland	20.6	100%	36.8	\$ 18,669	13.8	100%	24.9	6.7	100%	1,609.5
Sabine	24.3	100%	28.0	\$ 22,229	21.4	100%	24.8	2.8	100%	1,203.5
St. Bernard	0.5	2%	74.5	\$ 20,316	0.1	7%	2.9	0.5	2%	1,558.3
St. Charles	2.0	4%	194.3	\$ 26,756	1.1	18%	25.3	0.9	2%	1,810.4
St. Helena	11.0	96%	28.1	\$ 19,457	11.0	96%	28.1			
St. James	6.7	30%	92.5	\$ 24,930	3.0	50%	27.3	3.6	22%	874.1
St. John the Baptist	3.3	7%	220.0	\$ 21,335	2.1	35%	31.2	1.1	3%	1,951.1
St. Landry	29.7	36%	89.3	\$ 19,387	22.8	55%	46.1	6.9	17%	1,345.7
St. Martin	13.5	25%	72.6	\$ 22,164	10.7	40%	37.5	2.8	10%	924.7
St. Mary	21.2	39%	98.8	\$ 21,313	3.5	49%	13.9	17.7	37%	1,393.8
St. Tammany	7.8	3%	292.5	\$ 30,363	7.5	13%	79.0	0.3	0%	1,540.6
Tangipahoa	19.0	15%	163.1	\$ 21,273	19.0	36%	74.4	-	0%	936.1
Tensas	4.8	100%	7.9	\$ 17,175	4.8	100%	7.9			
Terrebonne	0.6	1%	92.6	\$ 24,114	0.6	3%	19.5	0.0	0%	1,640.0
Union	22.0	98%	25.6	\$ 19,412	18.2	97%	21.4	3.8	100%	765.5
Vermilion	16.3	28%	50.5	\$ 22,589	15.6	48%	28.4	0.7	3%	1,476.1
Vernon	50.5	96%	39.7	\$ 21,396	25.5	98%	20.0	24.9	93%	1,198.7
Washington	46.2	96%	71.9	\$ 17,735	31.8	98%	49.5	14.4	92%	1,396.1
Webster	37.9	93%	68.8	\$ 19,871	21.1	97%	37.6	16.7	88%	1,249.1
West Baton Rouge	3.0	12%	127.6	\$ 24,838	1.8	24%	43.0	1.2	7%	879.5
West Carroll	11.3	100%	31.3	\$ 17,980	11.3	100%	31.3			
West Feliciana	16.6	100%	41.1	\$ 21,720	16.6	100%	41.1			
Winn	14.7	100%	15.4	\$ 16,789	9.6	100%	10.2	5.0	100%	1,182.6
<b>Maine</b>	<b>290.7</b>	<b>22%</b>	<b>43.4</b>		<b>257.9</b>	<b>31%</b>	<b>27.2</b>	<b>32.8</b>	<b>6%</b>	<b>1,419.8</b>
Androscoggin	8.4	8%	232.6	\$ 24,442	8.1	17%	111.1	0.3	0%	1,676.4
Aroostook	28.9	41%	10.5	\$ 21,566	25.1	44%	8.5	3.9	28%	1,426.7
Cumberland	9.2	3%	341.8	\$ 32,880	8.3	8%	147.6	0.9	0%	1,408.5
Franklin	21.4	69%	18.3	\$ 22,083	17.5	68%	15.2	3.9	74%	1,631.5
Hancock	20.8	38%	34.8	\$ 27,797	20.8	42%	31.4	-	0%	1,223.3
Kennebec	12.2	10%	141.9	\$ 25,770	11.7	15%	94.0	0.5	1%	1,387.2
Knox	3.9	9%	112.6	\$ 27,865	3.9	14%	79.2	-	0%	1,400.1
Lincoln	3.5	10%	76.2	\$ 28,070	3.5	10%	76.2			
Oxford	17.7	30%	28.2	\$ 21,441	17.5	36%	23.6	0.2	2%	1,500.0
Penobscot	49.0	32%	45.8	\$ 23,895	44.9	49%	27.2	4.2	6%	1,450.5
Piscataquis	11.0	63%	4.4	\$ 21,818	11.0	63%	4.4			
Sagadahoc	3.5	10%	138.5	\$ 28,829	3.4	16%	90.0	0.1	1%	1,362.3
Somerset	29.7	56%	13.4	\$ 21,513	25.0	59%	10.8	4.7	46%	1,603.1
Waldo	19.1	49%	53.6	\$ 22,853	19.1	53%	49.3	-	0%	1,247.9
Washington	13.7	41%	12.9	\$ 20,807	13.7	45%	12.0	-	0%	1,370.6
York	38.6	19%	200.7	\$ 29,125	24.4	21%	124.5	14.2	17%	1,289.2
<b>Maryland</b>	<b>417.5</b>	<b>7%</b>	<b>610.4</b>		<b>201.5</b>	<b>27%</b>	<b>98.3</b>	<b>216.0</b>	<b>4%</b>	<b>2,578.0</b>
Allegany	55.1	74%	176.0	\$ 21,211	14.4	72%	51.4	40.6	74%	1,607.8

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Anne Arundel	14.0	3%	1,339.5	\$ 40,415	5.0	17%	165.9	9.0	2%	2,214.2
Baltimore	19.4	2%	1,367.7	\$ 34,374	3.1	6%	156.6	16.3	2%	2,913.4
Calvert	5.0	5%	448.1	\$ 38,260	3.7	10%	224.4	1.3	2%	1,131.6
Caroline	7.5	22%	107.2	\$ 25,211	7.1	27%	82.9	0.4	4%	1,283.9
Carroll	5.0	3%	381.3	\$ 36,153	3.2	5%	175.9	1.8	2%	1,430.4
Cecil	14.6	14%	305.1	\$ 29,518	6.9	16%	150.0	7.8	13%	1,159.6
Charles	19.4	12%	339.4	\$ 37,277	16.2	35%	117.1	3.3	3%	1,733.8
Dorchester	9.3	28%	62.1	\$ 26,388	8.9	47%	35.7	0.4	3%	1,676.9
Frederick	18.6	8%	368.4	\$ 36,917	10.6	18%	104.7	8.0	4%	1,821.6
Garrett	10.6	35%	46.3	\$ 24,932	10.5	42%	39.3	0.1	2%	1,087.2
Harford	3.5	1%	577.2	\$ 35,425	1.8	4%	133.6	1.7	1%	1,803.4
Howard	7.0	2%	1,190.9	\$ 48,172	0.7	3%	220.4	6.3	2%	2,136.0
Kent	19.5	93%	76.1	\$ 31,502	13.8	90%	56.0	5.7	100%	2,225.3
Montgomery	16.2	2%	2,035.5	\$ 49,038	2.4	10%	108.5	13.8	1%	3,607.9
Prince George's	39.4	4%	1,822.5	\$ 32,344	4.5	26%	91.4	35.0	4%	2,918.0
Queen Anne's	52.0	98%	142.9	\$ 38,108	27.9	99%	79.0	24.1	96%	1,452.9
St. Mary's	28.7	25%	318.4	\$ 36,017	22.6	39%	189.1	6.1	11%	1,097.2
Somerset	17.3	64%	84.4	\$ 16,748	7.7	67%	37.0	9.5	62%	2,439.8
Talbot	14.7	37%	147.0	\$ 38,022	14.7	70%	81.8	-	0%	1,907.0
Washington	10.7	7%	332.8	\$ 26,532	5.2	12%	111.8	5.5	5%	1,826.9
Wicomico	11.3	11%	275.5	\$ 25,378	3.7	14%	79.9	7.7	10%	1,563.9
Worcester	8.3	16%	112.4	\$ 32,887	7.0	38%	41.4	1.3	4%	1,546.0
Baltimore	10.6	2%	7,597.8	\$ 24,750	-	-	-	10.6	2%	7,599.0
<b>Massachusetts</b>	<b>238.0</b>	<b>4%</b>	<b>849.2</b>		<b>98.3</b>	<b>18%</b>	<b>110.5</b>	<b>139.7</b>	<b>2%</b>	<b>2,039.8</b>
Barnstable	4.8	2%	542.3	\$ 36,142	0.7	4%	100.9	4.1	2%	841.0
Berkshire	128.2	99%	139.3	\$ 29,294	40.6	99%	47.3	87.6	99%	1,482.2
Bristol	7.7	1%	998.6	\$ 28,837	4.1	8%	202.0	3.6	1%	1,756.7
Dukes	2.1	11%	186.0	\$ 33,363	0.6	7%	81.3	1.6	13%	1,180.3
Essex	6.3	1%	1,528.8	\$ 35,167	2.9	9%	196.8	3.4	0%	2,158.2
Franklin	15.8	22%	101.3	\$ 29,259	15.8	41%	57.3	0.1	0%	1,275.9
Hampden	9.5	2%	753.8	\$ 25,817	7.1	18%	96.2	2.4	1%	2,139.5
Hampshire	13.3	8%	301.7	\$ 29,460	8.5	19%	97.8	4.8	4%	1,472.9
Middlesex	9.6	1%	1,854.2	\$ 42,861	1.1	2%	208.4	8.5	1%	2,467.2
Nantucket	0.1	1%	246.2	\$ 47,331	0.1	6%	58.0	0.0	0%	1,134.8
Norfolk	3.3	0%	1,709.6	\$ 44,692	0.0	0%	176.5	3.3	0%	1,914.4
Plymouth	8.4	2%	758.0	\$ 35,220	2.5	5%	165.2	5.9	1%	1,298.8
Suffolk	8.4	1%	12,851.1	\$ 32,835	0.7	100%	727.0	7.7	1%	13,045.8
Worcester	20.3	3%	536.2	\$ 31,537	13.6	9%	135.7	6.7	1%	1,620.6
<b>Michigan</b>	<b>1,250.1</b>	<b>13%</b>	<b>174.4</b>		<b>968.5</b>	<b>39%</b>	<b>47.5</b>	<b>281.6</b>	<b>4%</b>	<b>2,026.9</b>
Alcona	3.4	32%	15.8	\$ 22,719	3.4	33%	15.7	-	0%	726.7
Alger	2.8	29%	10.3	\$ 19,717	2.8	43%	7.1	-	0%	899.9
Allegan	33.0	29%	137.3	\$ 24,140	32.3	45%	91.4	0.6	2%	1,269.0
Alpena	3.8	13%	50.8	\$ 21,948	3.8	25%	26.9	-	0%	1,468.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Antrim	4.8	20%	49.4	\$ 24,370	4.8	20%	49.4			
Arenac	5.4	35%	42.4	\$ 20,039	5.4	35%	42.4			
Baraga	2.5	29%	9.8	\$ 17,701	2.5	29%	9.8			
Barry	43.6	73%	108.1	\$ 25,059	35.9	78%	84.9	7.7	56%	1,476.8
Bay	6.4	6%	243.0	\$ 23,799	6.4	20%	82.0	0.0	0%	1,703.1
Benzie	1.3	7%	55.8	\$ 24,831	1.3	7%	55.8			
Berrien	12.1	8%	273.3	\$ 24,013	7.5	15%	104.9	4.6	4%	1,244.0
Branch	15.1	34%	88.7	\$ 19,947	15.1	54%	56.0	-	0%	1,493.2
Calhoun	43.0	32%	191.3	\$ 22,978	24.5	58%	65.1	18.5	20%	1,485.9
Cass	12.0	23%	106.9	\$ 22,743	11.1	30%	78.0	0.9	6%	1,049.2
Charlevoix	2.6	10%	61.7	\$ 26,947	2.6	14%	44.5	-	0%	1,026.5
Cheboygan	5.0	19%	36.0	\$ 23,412	5.0	23%	30.1	-	0%	1,245.0
Chippewa	9.5	25%	24.6	\$ 20,589	8.8	47%	12.2	0.8	4%	2,121.8
Clare	3.9	13%	54.3	\$ 18,148	3.9	18%	38.5	-	0%	1,016.7
Clinton	38.8	49%	138.6	\$ 28,449	30.0	74%	75.6	8.7	23%	1,256.9
Crawford	3.5	25%	24.9	\$ 21,492	3.5	34%	18.4	-	0%	900.1
Delta	6.5	18%	31.2	\$ 22,471	6.5	40%	13.9	-	0%	1,143.8
Dickinson	7.3	28%	34.0	\$ 24,611	4.7	55%	11.5	2.6	15%	1,103.9
Eaton	53.5	49%	188.7	\$ 26,582	34.0	83%	77.6	19.5	29%	1,408.4
Emmet	5.4	16%	70.4	\$ 29,718	5.4	22%	53.5	-	0%	1,379.7
Genesee	7.1	2%	660.9	\$ 22,380	2.4	3%	176.5	4.8	1%	1,495.1
Gladwin	5.2	21%	50.5	\$ 20,368	5.2	23%	44.9	-	0%	1,067.9
Gogebic	4.2	26%	14.6	\$ 20,330	4.2	38%	10.1	-	0%	1,387.2
Grand Traverse	1.6	2%	194.0	\$ 27,660	1.6	4%	102.7	-	0%	1,130.8
Graiot	14.3	35%	72.5	\$ 18,836	14.3	57%	44.9	-	0%	2,155.2
Hillsdale	18.8	40%	77.9	\$ 20,379	18.5	58%	54.5	0.4	2%	1,355.0
Houghton	5.8	16%	36.5	\$ 19,783	5.8	42%	13.9	-	0%	1,879.2
Huron	13.0	41%	37.8	\$ 22,120	12.9	46%	33.9	0.0	1%	1,342.6
Ingham	70.1	25%	512.1	\$ 24,754	33.2	89%	82.1	36.9	15%	2,453.6
Ionia	36.1	56%	113.1	\$ 20,206	30.9	80%	69.9	5.2	20%	1,671.9
Iosco	7.7	30%	46.0	\$ 22,047	7.7	52%	27.7	-	0%	778.3
Iron	11.3	99%	9.7	\$ 21,499	8.1	99%	7.0	3.2	100%	1,554.2
Isabella	2.5	3%	126.4	\$ 19,061	2.5	7%	59.4	0.0	0%	2,332.7
Jackson	47.6	30%	229.0	\$ 22,613	38.5	57%	105.2	9.1	10%	1,531.9
Kalamazoo	8.1	3%	454.9	\$ 25,757	7.8	17%	103.3	0.3	0%	1,645.4
Kalkaska	6.3	37%	30.8	\$ 20,258	6.3	43%	26.3	-	0%	1,107.9
Kent	20.3	3%	725.6	\$ 25,889	10.6	11%	161.2	9.7	2%	2,155.3
Keweenaw	0.9	44%	3.9	\$ 24,802	0.9	44%	3.9			
Lake	11.3	100%	20.0	\$ 16,202	11.3	100%	20.0			
Lapeer	30.6	35%	136.7	\$ 23,907	30.6	45%	108.2	-	0%	1,389.6
Leelanau	3.2	15%	62.7	\$ 31,462	3.2	16%	57.6	-	0%	786.8
Lenawee	29.2	29%	133.4	\$ 22,395	21.7	42%	71.2	7.5	15%	1,875.2
Livingston	30.3	16%	331.7	\$ 32,129	21.7	31%	152.7	8.6	7%	1,075.0
Luce	5.6	99%	6.3	\$ 18,768	2.7	98%	3.1	2.9	100%	1,961.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Mackinac	6.6	62%	10.4	\$ 22,622	6.6	80%	8.1	-	0%	1,119.8
Macomb	21.1	2%	1,787.4	\$ 26,748	5.9	25%	113.6	15.2	2%	3,106.6
Manistee	5.6	23%	45.2	\$ 22,702	5.6	37%	28.0	-	0%	1,261.1
Marquette	9.0	13%	37.6	\$ 23,789	9.0	32%	15.8	0.0	0%	1,797.7
Mason	8.1	28%	58.1	\$ 23,183	8.1	45%	37.0	-	0%	1,274.2
Mecosta	7.2	17%	77.7	\$ 19,336	7.1	25%	52.6	0.0	0%	1,549.1
Menominee	21.3	91%	22.5	\$ 22,331	12.9	85%	14.6	8.4	100%	2,181.1
Midland	6.2	7%	162.2	\$ 29,536	6.2	17%	74.4	-	0%	1,414.8
Missaukee	8.3	56%	26.4	\$ 20,305	8.3	56%	26.4			
Monroe	13.5	9%	280.0	\$ 25,939	13.2	23%	119.9	0.3	0%	1,412.6
Montcalm	20.6	32%	90.4	\$ 18,969	20.6	38%	77.0	-	0%	1,613.1
Montmorency	9.4	99%	17.4	\$ 19,661	9.4	99%	17.4			
Muskegon	15.4	9%	346.6	\$ 20,621	9.9	25%	99.4	5.4	4%	1,407.2
Newaygo	25.2	52%	59.5	\$ 20,623	25.1	62%	50.2	0.1	1%	1,197.3
Oakland	30.8	3%	1,390.3	\$ 36,458	6.9	12%	177.8	23.8	2%	2,109.9
Oceana	8.1	31%	51.5	\$ 18,986	8.1	34%	46.3	-	0%	1,298.3
Ogemaw	4.5	21%	38.2	\$ 19,634	4.5	21%	38.2			
Ontonagon	1.4	21%	4.8	\$ 21,585	1.4	21%	4.8			
Osceola	12.0	51%	41.4	\$ 18,099	12.0	51%	41.4			
Oscoda	6.8	82%	14.7	\$ 18,057	6.8	82%	14.7			
Otsego	3.2	13%	47.0	\$ 24,312	3.2	20%	31.5	-	0%	815.4
Ottawa	5.8	2%	484.1	\$ 25,371	5.5	10%	126.2	0.3	0%	1,630.0
Presque Isle	10.2	79%	19.6	\$ 22,788	7.8	74%	16.1	2.4	100%	1,696.0
Roscommon	1.0	4%	45.9	\$ 23,023	1.0	6%	30.9	-	0%	909.4
Saginaw	12.7	6%	245.3	\$ 22,349	12.7	21%	85.4	-	0%	1,656.5
St. Clair	35.6	22%	225.4	\$ 24,357	33.8	53%	97.3	1.9	2%	1,418.7
St. Joseph	15.9	26%	121.7	\$ 20,570	15.0	46%	69.1	0.8	3%	1,100.9
Sanilac	42.3	100%	44.0	\$ 20,713	38.2	100%	39.8	4.2	100%	1,304.7
Schoolcraft	3.4	40%	7.1	\$ 20,892	3.4	68%	4.2	-	0%	966.7
Shiawassee	24.7	35%	131.7	\$ 22,713	20.2	52%	75.2	4.5	14%	1,692.0
Tuscola	29.7	54%	68.0	\$ 20,767	29.7	65%	57.7	-	0%	1,312.6
Van Buren	25.1	33%	125.2	\$ 21,732	22.0	41%	91.4	3.1	14%	1,042.4
Washtenaw	24.0	7%	498.3	\$ 33,231	15.7	27%	100.8	8.3	3%	2,176.8
Wayne	50.5	3%	2,846.6	\$ 22,308	0.1	1%	188.6	50.4	3%	3,159.7
Wexford	8.6	26%	59.2	\$ 20,573	8.6	40%	38.9	-	0%	1,352.6
<b>Minnesota</b>	<b>724.7</b>	<b>13%</b>	<b>68.1</b>		<b>669.4</b>	<b>47%</b>	<b>18.3</b>	<b>55.3</b>	<b>1%</b>	<b>2,345.9</b>
Aitkin	11.5	71%	8.9	\$ 24,939	11.5	71%	8.9			
Anoka	11.1	3%	806.0	\$ 30,647	6.5	14%	171.8	4.5	2%	1,910.3
Becker	31.4	95%	25.2	\$ 25,455	23.3	93%	19.1	8.1	99%	1,403.7
Beltrami	7.0	15%	18.3	\$ 21,622	7.0	23%	12.3	-	0%	1,341.4
Benton	2.2	6%	97.1	\$ 24,453	2.2	14%	39.3	-	0%	2,271.3
Big Stone	1.5	30%	9.9	\$ 26,019	1.5	30%	9.9			
Blue Earth	8.2	12%	89.1	\$ 25,380	8.1	46%	24.3	0.1	0%	2,210.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Brown	6.2	24%	41.6	\$ 26,576	5.8	66%	14.7	0.4	3%	1,913.6
Carlton	12.6	35%	42.2	\$ 24,434	12.2	61%	23.5	0.4	2%	1,251.1
Carver	6.5	7%	276.4	\$ 37,457	6.2	35%	56.4	0.3	0%	2,038.9
Cass	16.8	58%	14.2	\$ 25,287	16.8	58%	14.2			
Chippewa	1.9	16%	20.8	\$ 25,993	1.9	32%	10.2	-	0%	1,603.1
Chisago	13.4	23%	138.3	\$ 27,914	13.1	41%	80.8	0.3	1%	1,233.1
Clay	14.8	24%	58.9	\$ 24,550	14.7	88%	16.3	0.1	0%	2,580.8
Clearwater	1.3	15%	8.7	\$ 22,157	1.3	15%	8.7			
Cook	4.3	83%	3.6	\$ 32,868	4.3	83%	3.6			
Cottonwood	4.1	36%	17.7	\$ 23,456	4.1	61%	10.7	-	0%	1,937.3
Crow Wing	12.5	19%	64.8	\$ 26,527	12.5	31%	41.7	0.0	0%	1,200.3
Dakota	9.0	2%	734.6	\$ 34,828	7.3	37%	50.1	1.7	0%	2,378.8
Dodge	0.7	3%	47.2	\$ 29,107	0.7	7%	23.9	-	0%	1,774.2
Douglas	12.3	33%	58.1	\$ 27,716	11.3	58%	31.4	1.1	6%	1,178.9
Faribault	8.4	61%	19.4	\$ 25,065	5.5	52%	15.0	2.8	91%	1,794.2
Fillmore	20.3	99%	23.9	\$ 25,249	18.9	99%	22.3	1.4	100%	1,896.6
Freeborn	1.9	6%	43.3	\$ 25,668	1.9	14%	18.7	0.0	0%	1,786.2
Goodhue	12.4	27%	61.7	\$ 29,932	10.1	46%	29.7	2.3	9%	1,773.4
Grant	0.4	7%	10.7	\$ 26,665	0.4	7%	10.7			
Hennepin	11.5	1%	2,109.8	\$ 37,485	6.1	24%	134.6	5.4	0%	3,150.0
Houston	12.8	68%	33.8	\$ 26,450	10.1	95%	19.4	2.7	34%	1,773.9
Hubbard	7.5	36%	22.6	\$ 24,880	7.5	43%	18.9	0.0	0%	1,519.1
Isanti	14.5	36%	91.6	\$ 25,482	14.2	60%	55.9	0.3	2%	1,626.3
Itasca	14.1	31%	16.9	\$ 24,079	14.1	40%	13.4	-	0%	1,190.3
Jackson	3.0	31%	13.9	\$ 27,361	3.0	45%	9.6	0.0	0%	1,192.3
Kanabec	10.2	62%	31.7	\$ 22,291	9.9	77%	24.6	0.3	9%	1,515.5
Kandiyohi	5.0	12%	53.3	\$ 26,880	5.0	27%	23.9	-	0%	1,679.7
Kittson	3.2	76%	3.8	\$ 26,927	3.2	76%	3.8			
Koochiching	3.6	28%	4.1	\$ 26,045	3.6	60%	1.9	0.0	0%	988.2
Lac qui Parle	0.3	4%	8.9	\$ 28,014	0.3	4%	8.9			
Lake	4.3	40%	5.1	\$ 27,883	4.3	61%	3.4	-	0%	2,620.8
Lake of the Woods	2.0	54%	2.9	\$ 21,903	2.0	54%	2.9			
Le Sueur	4.1	14%	63.2	\$ 27,793	4.1	23%	39.2	0.0	0%	1,838.5
Lincoln	3.1	55%	10.5	\$ 26,767	3.1	55%	10.5			
Lyon	5.8	22%	36.4	\$ 26,028	5.8	47%	17.2	-	0%	2,017.0
McLeod	14.5	39%	75.0	\$ 26,824	9.0	53%	35.2	5.5	28%	2,136.7
Mahnomen	5.2	95%	9.7	\$ 19,517	5.2	95%	9.7			
Marshall	6.3	70%	5.1	\$ 26,834	6.3	70%	5.1			
Martin	5.1	25%	28.7	\$ 26,472	5.1	47%	15.5	-	0%	1,467.8
Meeker	11.8	50%	38.4	\$ 25,665	11.6	76%	25.2	0.1	2%	1,827.3
Mille Lacs	10.5	38%	47.8	\$ 22,891	10.4	54%	34.0	0.0	0%	1,886.6
Morrison	13.5	40%	29.8	\$ 23,753	13.5	55%	21.9	0.0	0%	1,440.4
Mower	4.6	12%	55.0	\$ 24,990	4.6	34%	19.5	-	0%	2,087.8
Murray	3.5	42%	12.0	\$ 27,450	3.5	42%	12.0			



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Nicollet	6.3	19%	75.0	\$ 26,674	6.0	71%	19.4	0.2	1%	2,608.4
Nobles	6.8	31%	30.1	\$ 22,598	6.8	82%	11.7	-	0%	2,556.4
Norman	5.2	80%	7.4	\$ 23,707	5.2	80%	7.4			
Olmsted	11.3	7%	231.1	\$ 34,073	9.6	39%	41.7	1.7	1%	2,225.4
Otter Tail	30.0	53%	28.8	\$ 26,400	27.0	65%	21.3	3.0	20%	1,861.7
Pennington	1.2	9%	22.6	\$ 24,554	1.2	24%	8.3	-	0%	1,446.6
Pine	14.7	48%	21.7	\$ 21,413	14.6	53%	19.5	0.1	3%	1,476.2
Pipestone	2.6	28%	20.0	\$ 24,137	2.5	47%	11.3	0.1	2%	2,035.1
Polk	3.5	11%	16.0	\$ 25,790	3.5	23%	7.9	-	0%	1,991.4
Pope	3.7	34%	16.2	\$ 29,128	3.7	34%	16.2			
Ramsey	3.9	1%	3,349.4	\$ 29,484	0.0	1%	245.0	3.9	1%	3,439.6
Red Lake	0.2	6%	9.1	\$ 23,257	0.2	6%	9.1			
Redwood	9.7	63%	17.7	\$ 25,649	9.7	91%	12.2	0.0	0%	1,801.7
Renville	4.4	29%	15.2	\$ 26,062	4.4	29%	15.2			
Rice	6.7	10%	134.2	\$ 25,370	6.4	38%	35.7	0.3	1%	2,256.1
Rock	2.7	29%	19.8	\$ 24,101	2.7	57%	10.0	0.0	0%	2,355.7
Roseau	7.9	52%	9.1	\$ 25,650	7.9	63%	7.5	-	0%	1,071.5
St. Louis	42.5	21%	32.0	\$ 25,946	42.4	58%	11.9	0.1	0%	1,759.1
Scott	10.4	7%	399.9	\$ 35,467	10.0	45%	73.8	0.4	0%	2,133.7
Sherburne	20.3	21%	222.4	\$ 28,071	20.2	48%	105.2	0.1	0%	1,530.1
Sibley	7.0	47%	25.5	\$ 25,789	7.0	47%	25.5			
Stearns	25.7	16%	116.1	\$ 26,065	25.6	46%	43.1	0.0	0%	2,191.3
Steele	0.6	2%	87.5	\$ 27,259	0.6	6%	26.5	-	0%	2,083.1
Stevens	0.4	5%	17.0	\$ 28,746	0.4	10%	7.9	-	0%	1,966.4
Swift	0.7	8%	12.1	\$ 25,750	0.7	13%	8.0	-	0%	1,761.6
Todd	15.9	64%	26.3	\$ 22,383	15.9	82%	20.7	-	0%	2,164.0
Traverse	1.1	32%	5.8	\$ 28,030	1.1	32%	5.8			
Wabasha	8.0	37%	41.2	\$ 28,282	8.0	57%	26.8	0.0	0%	1,585.0
Wadena	2.0	14%	25.7	\$ 20,329	2.0	21%	17.3	-	0%	1,743.0
Waseca	1.0	5%	44.8	\$ 25,723	1.0	11%	22.5	-	0%	2,335.4
Washington	8.4	3%	651.9	\$ 36,706	5.0	14%	125.1	3.5	2%	2,097.0
Watonwan	3.0	27%	25.0	\$ 25,635	3.0	46%	14.9	-	0%	2,180.4
Wilkin	2.8	45%	8.3	\$ 25,148	2.7	85%	4.2	0.1	4%	1,390.0
Winona	10.2	20%	82.1	\$ 23,421	10.2	57%	29.2	-	0%	2,375.2
Wright	26.5	19%	206.5	\$ 29,623	22.6	53%	70.1	3.9	4%	1,702.9
Yellow Medicine	4.5	45%	13.2	\$ 25,303	4.5	56%	10.7	-	0%	1,948.6
<b>Mississippi</b>	<b>1,196.5</b>	<b>40%</b>	<b>64.1</b>		<b>935.0</b>	<b>61%</b>	<b>33.2</b>	<b>261.4</b>	<b>18%</b>	<b>1,341.1</b>
Adams	24.8	78%	68.2	\$ 17,544	11.5	95%	27.3	13.2	68%	1,193.6
Alcorn	12.6	33%	94.5	\$ 19,145	12.5	49%	65.4	0.1	1%	1,037.5
Amite	12.5	97%	17.7	\$ 16,977	12.5	97%	17.7			
Attala	19.4	100%	26.4	\$ 18,422	12.7	100%	17.5	6.7	100%	1,244.5
Benton	5.4	61%	22.0	\$ 18,597	5.4	61%	22.0			
Bolivar	25.2	79%	36.6	\$ 16,462	14.8	87%	19.6	10.4	69%	1,843.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Calhoun	6.3	43%	25.3	\$ 17,034	6.3	43%	25.3			
Carroll	10.1	96%	16.7	\$ 16,897	10.1	96%	16.7			
Chickasaw	8.8	53%	33.2	\$ 16,677	8.8	62%	28.5	-	0%	923.8
Choctaw	7.8	96%	19.4	\$ 17,145	7.8	96%	19.4			
Claiborne	8.3	93%	18.3	\$ 12,177	8.3	93%	18.3			
Clarke	12.5	77%	23.5	\$ 18,066	12.5	77%	23.5			
Clay	7.5	37%	49.1	\$ 18,273	7.3	63%	28.6	0.2	3%	1,291.5
Coahoma	19.1	78%	44.5	\$ 15,742	6.8	85%	14.7	12.3	74%	1,951.9
Copiah	21.2	72%	38.0	\$ 18,318	15.9	81%	25.5	5.3	53%	1,224.4
Covington	15.7	80%	47.4	\$ 17,241	15.7	80%	47.4			
DeSoto	17.3	10%	376.2	\$ 25,176	15.4	43%	94.2	1.8	1%	1,508.6
Forrest	13.4	17%	163.7	\$ 19,736	10.0	43%	54.3	3.3	6%	1,397.8
Franklin	8.0	100%	14.1	\$ 24,234	8.0	100%	14.1			
George	12.9	54%	49.8	\$ 20,217	12.8	61%	44.3	0.2	6%	1,094.8
Greene	14.6	99%	20.7	\$ 14,463	14.6	99%	20.7			
Grenada	19.9	92%	51.0	\$ 21,084	10.8	94%	27.8	9.1	90%	1,113.8
Hancock	15.2	35%	91.5	\$ 22,621	9.8	52%	41.7	5.4	22%	1,089.6
Harrison	29.1	16%	323.4	\$ 22,677	26.9	61%	94.4	2.2	2%	1,354.2
Hinds	21.4	9%	279.9	\$ 20,448	13.7	36%	50.8	7.7	4%	1,719.8
Holmes	16.6	93%	23.5	\$ 12,113	14.6	95%	20.3	2.0	80%	1,672.5
Humphreys	8.8	100%	21.0	\$ 12,874	4.5	100%	10.8	4.3	100%	1,874.4
Issaquena	1.1	100%	2.7	\$ 13,731	1.1	100%	2.7			
Itawamba	9.4	40%	44.2	\$ 18,106	9.3	45%	38.5	0.2	6%	935.9
Jackson	48.3	34%	195.5	\$ 23,879	31.2	79%	62.2	17.0	17%	1,187.7
Jasper	11.9	71%	24.7	\$ 18,075	11.9	71%	24.7			
Jefferson	7.1	100%	13.6	\$ 12,723	7.1	100%	13.6			
Jefferson Davis	10.5	88%	29.4	\$ 16,216	10.5	88%	29.4			
Jones	23.6	34%	98.8	\$ 19,519	22.3	52%	63.1	1.4	5%	1,336.2
Kemper	10.3	100%	13.5	\$ 13,795	10.3	100%	13.5			
Lafayette	10.1	20%	79.3	\$ 21,388	10.1	45%	36.7	-	0%	1,714.0
Lamar	17.4	28%	123.8	\$ 26,345	16.0	52%	65.4	1.5	5%	1,001.9
Lauderdale	11.1	14%	114.9	\$ 21,346	9.9	25%	58.5	1.2	3%	1,288.4
Lawrence	10.5	82%	29.9	\$ 20,655	10.5	82%	29.9			
Leake	21.7	88%	42.2	\$ 16,780	18.1	90%	34.6	3.6	80%	1,100.9
Lee	13.1	15%	189.7	\$ 21,799	11.2	29%	98.0	1.8	4%	893.3
Leflore	24.1	78%	51.9	\$ 14,307	4.3	91%	8.1	19.8	76%	1,642.0
Lincoln	29.7	84%	60.7	\$ 19,566	22.7	91%	43.4	7.0	67%	1,193.1
Lowndes	54.4	92%	116.8	\$ 20,951	23.7	93%	53.6	30.7	92%	1,149.1
Madison	17.4	17%	143.4	\$ 33,170	11.6	40%	43.8	5.8	8%	1,339.5
Marion	27.2	99%	50.9	\$ 18,126	19.9	98%	37.8	7.3	99%	1,117.9
Marshall	19.2	50%	53.7	\$ 17,978	19.1	60%	45.5	0.0	1%	1,383.6
Monroe	17.0	47%	47.7	\$ 18,167	17.0	66%	33.9	-	0%	1,288.5
Montgomery	10.2	98%	25.6	\$ 15,523	6.2	100%	15.4	4.0	96%	1,304.3
Neshoba	27.2	90%	52.8	\$ 18,693	20.1	90%	39.6	7.1	91%	1,126.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Newton	14.5	67%	37.3	\$ 18,864	14.5	77%	32.8	0.0	1%	936.2
Noxubee	10.9	98%	16.1	\$ 12,780	8.3	100%	12.0	2.6	93%	1,333.4
Oktibbeha	8.8	18%	107.6	\$ 20,202	8.8	49%	40.7	-	0%	1,841.8
Panola	11.7	33%	50.8	\$ 18,073	11.3	41%	40.4	0.4	5%	903.5
Pearl River	8.1	14%	72.5	\$ 20,549	8.0	20%	51.7	0.0	0%	1,022.5
Perry	11.9	98%	18.9	\$ 17,183	11.9	98%	18.9			
Pike	8.1	20%	100.1	\$ 18,183	7.3	30%	62.0	0.8	5%	1,266.9
Pontotoc	15.9	51%	62.0	\$ 18,576	15.9	61%	52.7	-	0%	860.9
Prentiss	9.2	37%	60.6	\$ 16,589	9.2	48%	46.7	-	0%	1,072.5
Quitman	6.3	85%	18.4	\$ 13,954	3.3	78%	10.6	3.0	94%	1,300.3
Rankin	15.3	10%	195.7	\$ 26,897	10.6	21%	72.9	4.7	5%	1,239.5
Scott	7.4	26%	46.3	\$ 16,789	7.2	36%	33.7	0.2	2%	1,319.6
Sharkey	4.3	100%	10.0	\$ 15,744	4.3	100%	10.0			
Simpson	8.7	32%	46.5	\$ 18,314	8.5	37%	39.7	0.2	4%	1,421.8
Smith	16.5	100%	25.9	\$ 20,334	16.5	100%	25.9			
Stone	4.1	21%	43.1	\$ 18,576	4.1	27%	34.7	-	0%	1,055.6
Sunflower	23.7	84%	40.5	\$ 12,588	11.9	91%	18.9	11.8	78%	2,104.7
Tallahatchie	14.6	96%	23.7	\$ 12,747	11.9	95%	19.5	2.7	97%	1,454.9
Tate	10.9	36%	74.1	\$ 20,431	10.4	45%	58.0	0.5	7%	1,735.8
Tippah	12.8	56%	49.3	\$ 18,493	12.5	66%	41.8	0.2	6%	1,105.2
Tishomingo	5.0	26%	46.3	\$ 18,338	5.0	26%	46.3			
Tunica	4.4	41%	23.7	\$ 15,549	4.2	58%	16.2	0.2	5%	2,059.4
Union	10.0	36%	66.6	\$ 19,273	10.0	48%	51.2	-	0%	1,107.9
Walthall	14.2	91%	38.5	\$ 16,850	14.2	91%	38.5			
Warren	8.1	17%	82.0	\$ 22,362	7.5	38%	35.5	0.6	2%	1,154.5
Washington	40.0	84%	65.4	\$ 16,671	7.3	91%	11.4	32.7	83%	1,541.5
Wayne	20.2	98%	25.3	\$ 18,928	16.2	99%	20.4	3.9	97%	955.3
Webster	8.1	79%	24.2	\$ 18,728	8.1	79%	24.2			
Wilkinson	8.1	83%	14.3	\$ 18,717	8.1	83%	14.3			
Winston	10.4	55%	31.1	\$ 18,501	10.4	73%	23.7	0.0	0%	1,172.5
Yalobusha	6.3	50%	26.7	\$ 18,750	6.3	63%	21.3	-	0%	1,137.7
Yazoo	11.1	40%	30.4	\$ 14,291	6.7	55%	13.2	4.4	28%	1,860.6
<b>Missouri</b>	<b>1,791.5</b>	<b>29%</b>	<b>88.8</b>		<b>1,268.6</b>	<b>71%</b>	<b>26.9</b>	<b>522.9</b>	<b>12%</b>	<b>2,096.4</b>
Adair	24.9	97%	45.3	\$ 19,258	9.1	92%	17.5	15.8	100%	2,422.2
Andrew	14.4	82%	40.2	\$ 25,302	9.4	88%	24.7	5.0	73%	1,920.7
Atchison	5.4	100%	9.8	\$ 24,748	5.4	100%	9.8			
Audrain	11.3	45%	36.5	\$ 19,687	7.7	75%	14.8	3.7	24%	2,137.4
Barry	34.5	97%	45.9	\$ 19,489	26.0	99%	34.1	8.4	89%	1,294.7
Barton	12.0	99%	20.4	\$ 20,678	7.6	99%	13.0	4.4	100%	1,579.7
Bates	16.9	100%	20.2	\$ 21,047	13.1	100%	15.7	3.8	100%	1,787.1
Benton	15.4	79%	27.5	\$ 19,717	12.9	77%	24.0	2.5	98%	987.5
Bollinger	7.5	61%	19.9	\$ 19,470	7.5	61%	19.9			
Boone	25.9	15%	250.7	\$ 26,895	20.9	67%	50.5	5.1	4%	2,147.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Buchanan	66.3	73%	221.1	\$ 21,961	11.1	93%	32.0	55.2	70%	2,058.8
Butler	6.0	14%	62.1	\$ 19,246	6.0	27%	33.0	-	0%	1,321.5
Caldwell	9.2	98%	22.0	\$ 21,482	9.2	98%	22.0			
Callaway	27.5	61%	54.2	\$ 23,171	22.7	81%	34.2	4.8	28%	1,560.5
Camden	8.1	18%	69.7	\$ 23,038	8.1	24%	52.7	-	0%	750.2
Cape Girardeau	1.2	1%	134.5	\$ 23,751	1.2	5%	43.9	-	0%	1,559.6
Carroll	8.8	99%	12.7	\$ 24,073	5.7	99%	8.3	3.1	100%	1,412.8
Carter	6.2	98%	12.5	\$ 18,245	6.2	98%	12.5			
Cass	38.1	36%	150.5	\$ 27,463	27.1	83%	49.5	11.0	15%	1,946.3
Cedar	13.8	100%	29.1	\$ 16,362	10.5	100%	22.1	3.3	100%	1,748.2
Chariton	7.5	100%	10.0	\$ 19,481	7.5	100%	10.0			
Christian	0.0	0%	152.3	\$ 25,134	0.0	0%	70.1	-	0%	1,709.2
Clark	6.9	99%	13.7	\$ 20,279	6.9	99%	13.7			
Clay	26.0	11%	592.6	\$ 29,406	14.5	66%	74.2	11.5	5%	2,099.1
Clinton	17.4	82%	50.5	\$ 25,100	12.4	77%	38.8	5.0	100%	1,921.6
Cole	24.7	32%	197.4	\$ 26,160	17.8	79%	62.8	6.8	12%	1,552.0
Cooper	16.8	94%	31.5	\$ 22,910	8.9	92%	17.2	7.9	97%	1,776.4
Crawford	8.7	35%	33.9	\$ 18,415	8.6	47%	24.7	0.1	1%	1,251.1
Dade	7.7	100%	15.7	\$ 20,034	7.7	100%	15.7			
Dallas	16.6	97%	31.7	\$ 18,155	13.7	97%	26.1	2.9	95%	1,433.7
Daviess	8.3	99%	14.9	\$ 19,890	8.3	99%	14.9			
DeKalb	12.8	99%	30.6	\$ 16,635	7.8	99%	18.8	5.0	100%	3,490.8
Dent	15.7	99%	21.0	\$ 18,544	11.1	99%	14.9	4.6	100%	1,336.0
Douglas	13.7	99%	16.9	\$ 16,404	10.9	99%	13.6	2.8	99%	1,329.9
Dunklin	13.4	43%	57.8	\$ 17,990	6.2	39%	29.7	7.1	46%	1,714.3
Franklin	30.5	29%	112.6	\$ 24,742	29.9	52%	64.4	0.6	1%	1,577.3
Gasconade	15.0	100%	29.1	\$ 21,830	12.2	99%	23.7	2.8	100%	1,482.9
Gentry	5.7	86%	13.4	\$ 20,534	5.7	86%	13.4			
Greene	0.0	0%	425.1	\$ 23,520	0.0	0%	72.0	-	0%	2,041.5
Grundy	10.1	100%	23.2	\$ 19,527	4.7	99%	10.9	5.4	100%	1,524.8
Harrison	3.8	42%	12.4	\$ 19,468	3.8	60%	8.6	-	0%	1,786.2
Henry	12.5	57%	31.7	\$ 22,394	10.1	91%	16.2	2.4	22%	1,621.1
Hickory	9.7	100%	24.4	\$ 17,361	9.7	100%	24.4			
Holt	4.7	100%	10.1	\$ 24,127	4.7	100%	10.1			
Howard	10.0	100%	21.7	\$ 21,598	6.4	100%	14.0	3.6	100%	1,318.9
Howell	41.3	100%	44.7	\$ 17,416	29.9	100%	32.6	11.4	99%	1,426.1
Iron	5.3	51%	19.0	\$ 19,101	5.3	68%	14.3	-	0%	1,214.6
Jackson	16.7	2%	1,126.8	\$ 26,062	13.1	53%	75.2	3.7	1%	2,392.5
Jasper	117.4	96%	190.8	\$ 21,124	25.9	90%	50.3	91.5	98%	1,458.2
Jefferson	12.8	6%	343.4	\$ 24,792	12.0	18%	124.3	0.8	0%	1,391.6
Johnson	22.9	43%	64.8	\$ 21,547	22.9	83%	33.9	0.0	0%	1,480.4
Knox	3.9	100%	7.9	\$ 20,946	3.9	100%	7.9			
Laclede	19.0	52%	47.9	\$ 19,553	13.8	63%	29.1	5.2	35%	1,200.4
Lafayette	26.9	81%	52.9	\$ 23,637	17.7	94%	30.4	9.2	64%	2,126.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Lawrence	36.8	93%	64.7	\$ 19,060	22.1	96%	38.5	14.6	89%	1,578.6
Lewis	10.0	100%	19.8	\$ 19,317	10.0	100%	19.8			
Lincoln	20.4	36%	91.7	\$ 22,063	20.4	48%	69.2	-	0%	1,688.7
Linn	9.9	81%	19.9	\$ 21,015	5.7	71%	13.2	4.2	100%	1,416.9
Livingston	4.9	32%	28.8	\$ 21,011	4.9	85%	10.9	-	0%	1,270.6
McDonald	23.3	100%	43.3	\$ 17,505	23.3	100%	43.3	0.0	100%	8.0
Macon	15.3	99%	19.2	\$ 20,054	10.3	99%	13.0	5.0	100%	1,666.9
Madison	6.5	52%	25.0	\$ 17,316	6.5	81%	16.3	-	0%	1,848.9
Maries	9.2	100%	17.5	\$ 22,026	9.2	100%	17.5			
Marion	5.6	20%	65.9	\$ 21,909	5.6	78%	17.1	-	0%	1,849.2
Mercer	1.6	43%	8.2	\$ 20,178	1.6	43%	8.2			
Miller	14.0	56%	42.1	\$ 19,385	14.0	70%	34.1	0.0	0%	1,583.8
Mississippi	1.9	13%	35.3	\$ 15,558	1.9	40%	11.8	0.0	0%	1,716.0
Moniteau	5.8	37%	38.0	\$ 19,451	2.9	34%	20.2	2.9	39%	2,107.3
Monroe	5.0	58%	13.2	\$ 20,331	5.0	58%	13.2			
Montgomery	7.2	60%	22.3	\$ 20,991	7.2	77%	17.5	-	0%	1,508.2
Morgan	10.8	52%	34.9	\$ 17,935	10.8	52%	34.9			
New Madrid	5.9	32%	27.3	\$ 21,215	3.0	29%	15.4	2.9	36%	1,631.1
Newton	59.4	100%	95.3	\$ 22,341	38.2	100%	63.1	21.1	100%	1,177.8
Nodaway	23.5	100%	26.8	\$ 18,079	9.9	100%	11.4	13.6	100%	2,512.0
Oregon	10.9	100%	13.9	\$ 16,331	8.8	100%	11.2	2.1	100%	1,406.5
Osage	14.0	100%	23.2	\$ 22,629	14.0	100%	23.2			
Ozark	9.6	100%	12.9	\$ 17,215	9.6	100%	12.9			
Pemiscot	16.2	92%	35.7	\$ 16,881	7.7	89%	17.7	8.5	95%	1,952.8
Perry	3.9	20%	40.4	\$ 23,435	3.9	37%	22.8	-	0%	1,303.2
Pettis	14.7	34%	62.9	\$ 19,709	13.5	83%	24.4	1.2	5%	1,418.7
Phelps	40.8	88%	69.2	\$ 21,173	20.0	94%	32.2	20.8	82%	1,963.6
Pike	18.1	99%	27.5	\$ 18,650	9.9	98%	15.1	8.3	99%	2,059.0
Platte	7.0	7%	224.3	\$ 35,143	7.0	49%	39.3	0.0	0%	1,395.8
Polk	31.9	99%	50.9	\$ 19,511	22.4	100%	35.5	9.5	95%	1,859.9
Pulaski	55.2	100%	101.2	\$ 20,863	23.8	100%	45.8	31.5	100%	1,215.8
Putnam	4.6	96%	9.3	\$ 19,397	4.6	96%	9.3			
Ralls	2.7	27%	21.9	\$ 23,299	2.7	28%	21.0	-	0%	520.8
Randolph	9.0	35%	52.8	\$ 17,587	9.0	77%	24.4	-	0%	1,625.3
Ray	23.3	100%	41.0	\$ 24,549	17.6	100%	31.2	5.7	100%	1,312.1
Reynolds	4.9	73%	8.2	\$ 18,449	4.9	73%	8.2			
Ripley	14.2	100%	22.5	\$ 16,408	14.2	100%	22.5			
St. Charles	0.0	0%	687.4	\$ 31,586	0.0	0%	54.1	-	0%	2,533.2
St. Clair	9.6	100%	14.4	\$ 17,337	9.6	100%	14.4			
Ste. Genevieve	18.0	100%	36.2	\$ 22,921	13.8	100%	27.8	4.3	100%	1,739.5
St. Francois	11.1	16%	151.1	\$ 18,544	11.1	41%	63.6	-	0%	1,798.9
St. Louis	-	0%	1,948.0	\$ 34,795	-	0%	80.8	-	0%	2,572.5
Saline	8.9	39%	30.5	\$ 19,006	8.9	87%	13.7	-	0%	2,055.6
Schuyler	4.5	100%	14.5	\$ 18,160	4.5	100%	14.5			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Scotland	4.8	100%	10.9	\$ 20,363	4.8	100%	10.9			
Scott	5.4	14%	92.0	\$ 20,825	5.4	33%	39.8	-	0%	1,849.5
Shannon	8.4	100%	8.4	\$ 16,862	8.4	100%	8.4			
Shelby	3.6	63%	11.6	\$ 19,331	3.6	63%	11.6			
Stoddard	6.8	23%	36.1	\$ 22,967	6.8	33%	25.3	-	0%	1,551.2
Stone	32.4	98%	71.3	\$ 21,733	28.7	98%	64.0	3.7	99%	676.5
Sullivan	6.1	96%	9.8	\$ 19,279	6.1	96%	9.8			
Taney	41.2	74%	88.4	\$ 20,231	22.7	92%	41.1	18.5	59%	936.3
Texas	26.7	100%	22.7	\$ 17,868	26.5	100%	22.5	0.2	100%	1,701.9
Vernon	21.2	100%	25.7	\$ 19,734	12.8	100%	15.6	8.4	99%	1,516.7
Warren	10.6	30%	82.4	\$ 24,692	10.4	47%	52.2	0.2	1%	1,596.7
Washington	25.2	98%	33.8	\$ 17,703	20.3	98%	27.5	4.9	100%	1,767.2
Wayne	13.0	97%	17.7	\$ 18,970	13.0	97%	17.7			
Webster	37.8	100%	64.0	\$ 19,955	27.8	100%	47.4	10.0	99%	1,833.1
Worth	1.7	86%	7.6	\$ 22,967	1.7	86%	7.6			
Wright	19.0	100%	27.9	\$ 14,752	14.6	100%	21.5	4.4	100%	1,694.1
St. Louis	-	0%	5,030.4	\$ 23,048	-	0%	11.5	-	0%	5,044.5
<b>Montana</b>	<b>882.3</b>	<b>87%</b>	<b>7.0</b>		<b>399.9</b>	<b>90%</b>	<b>3.1</b>	<b>482.4</b>	<b>84%</b>	<b>1,931.1</b>
Beaverhead	9.3	100%	1.7	\$ 22,872	4.7	100%	0.8	4.6	100%	2,030.9
Big Horn	12.5	100%	2.5	\$ 15,695	9.1	100%	1.8	3.5	100%	2,641.0
Blaine	4.6	73%	1.5	\$ 17,437	4.6	73%	1.5			
Broadwater	6.0	100%	5.1	\$ 24,270	6.0	100%	5.1			
Carbon	10.0	100%	4.9	\$ 27,599	10.0	100%	4.9			
Carter	1.0	100%	0.3	\$ 24,921	1.0	100%	0.3			
Cascade	76.8	94%	30.3	\$ 24,727	14.8	93%	6.0	62.0	94%	2,113.2
Chouteau	1.9	34%	1.4	\$ 21,737	1.9	34%	1.4			
Custer	11.7	100%	3.1	\$ 23,910	2.3	100%	0.6	9.4	100%	1,344.9
Daniels	0.3	18%	1.1	\$ 31,449	0.3	18%	1.1			
Dawson	8.9	100%	3.8	\$ 26,126	2.4	100%	1.0	6.5	100%	1,462.7
Deer Lodge	9.2	100%	12.5	\$ 22,052	3.2	100%	4.4	6.0	100%	2,485.9
Fallon	2.9	100%	1.8	\$ 28,563	2.9	100%	1.8			
Fergus	10.9	95%	2.6	\$ 24,429	5.0	90%	1.3	5.9	100%	2,689.4
Flathead	96.2	99%	19.0	\$ 25,790	50.2	100%	9.9	46.0	99%	1,754.6
Gallatin	73.7	75%	37.5	\$ 28,939	24.0	78%	12.0	49.7	74%	2,026.0
Garfield	1.2	100%	0.2	\$ 25,921	1.2	100%	0.2			
Glacier	13.3	100%	4.4	\$ 15,604	5.8	100%	2.0	7.5	100%	2,577.5
Golden Valley	0.8	100%	0.7	\$ 23,508	0.8	100%	0.7			
Granite	3.1	100%	1.8	\$ 26,277	3.1	100%	1.8			
Hill	10.3	65%	5.5	\$ 21,376	3.9	62%	2.2	6.4	67%	2,266.2
Jefferson	11.8	99%	7.2	\$ 30,397	11.8	99%	7.2			
Judith Basin	1.4	75%	1.0	\$ 24,260	1.4	75%	1.0			
Lake	29.3	100%	19.6	\$ 21,521	24.2	100%	16.3	5.0	100%	1,777.6
Lewis and Clark	60.3	91%	19.1	\$ 28,400	18.1	94%	5.6	42.1	90%	1,654.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Liberty	2.3	100%	1.6	\$ 25,522	2.3	100%	1.6			
Lincoln	10.1	51%	5.5	\$ 21,719	10.1	64%	4.4	-	0%	1,378.8
McCone	1.4	100%	0.5	\$ 27,161	1.4	100%	0.5			
Madison	5.4	68%	2.2	\$ 33,062	5.4	68%	2.2			
Meagher	0.6	31%	0.8	\$ 20,288	0.6	31%	0.8			
Mineral	4.3	100%	3.5	\$ 19,859	4.3	100%	3.5			
Missoula	86.8	76%	44.0	\$ 25,764	23.0	92%	9.9	63.8	72%	1,900.0
Musselshell	4.5	100%	2.4	\$ 23,022	4.5	100%	2.4			
Park	15.7	100%	5.6	\$ 24,611	7.7	100%	2.7	8.0	100%	1,961.5
Petroleum	0.5	100%	0.3	\$ 22,714	0.5	100%	0.3			
Phillips	1.6	39%	0.8	\$ 22,890	1.6	39%	0.8			
Pondera	5.9	99%	3.7	\$ 22,256	3.5	99%	2.2	2.5	100%	1,972.9
Powder River	1.6	100%	0.5	\$ 28,528	1.6	100%	0.5			
Powell	6.7	100%	2.9	\$ 19,736	3.7	100%	1.6	3.0	100%	2,067.7
Prairie	1.1	100%	0.6	\$ 20,644	1.1	100%	0.6			
Ravalli	40.7	98%	17.4	\$ 22,872	34.4	98%	14.7	6.3	100%	1,495.3
Richland	9.8	99%	4.8	\$ 32,036	4.4	98%	2.1	5.5	100%	1,375.7
Roosevelt	10.0	98%	4.4	\$ 16,888	3.8	94%	1.7	6.2	100%	2,409.1
Rosebud	9.2	100%	1.8	\$ 22,229	9.2	100%	1.8			
Sanders	11.7	100%	4.2	\$ 19,188	11.7	100%	4.2			
Sheridan	2.3	76%	1.8	\$ 31,378	2.3	76%	1.8			
Silver Bow	34.1	100%	47.5	\$ 23,562	4.0	100%	5.7	30.1	100%	1,828.7
Stillwater	9.2	98%	5.2	\$ 28,868	9.2	98%	5.2			
Sweet Grass	1.6	45%	2.0	\$ 22,743	1.6	45%	2.0			
Teton	4.5	76%	2.6	\$ 22,799	4.5	76%	2.6			
Toole	5.2	99%	2.8	\$ 23,162	1.9	97%	1.0	3.3	100%	2,308.1
Treasure	0.7	100%	0.7	\$ 23,948	0.7	100%	0.7			
Valley	6.7	93%	1.5	\$ 25,685	3.5	89%	0.8	3.2	99%	782.6
Wheatland	0.9	42%	1.5	\$ 17,336	0.9	42%	1.5			
Wibaux	1.0	100%	1.1	\$ 27,492	1.0	100%	1.1			
Yellowstone	118.6	77%	58.7	\$ 27,761	22.8	89%	10.0	95.8	74%	2,169.1
<b>Nebraska</b>	<b>502.2</b>	<b>27%</b>	<b>24.3</b>		<b>348.6</b>	<b>73%</b>	<b>6.3</b>	<b>153.6</b>	<b>11%</b>	<b>2,652.9</b>
Adams	3.5	11%	56.0	\$ 25,571	3.5	51%	12.5	0.0	0%	2,837.7
Antelope	3.8	61%	7.3	\$ 25,186	3.8	61%	7.3			
Arthur	0.4	100%	0.6	\$ 17,656	0.4	100%	0.6			
Banner	0.6	100%	0.8	\$ 25,814	0.6	100%	0.8			
Blaine	0.4	100%	0.6	\$ 19,141	0.4	100%	0.6			
Boone	3.4	65%	7.5	\$ 25,590	3.4	65%	7.5			
Box Butte	1.9	18%	10.3	\$ 25,046	1.9	73%	2.5	0.0	0%	1,792.8
Boyd	1.4	73%	3.6	\$ 23,157	1.4	73%	3.6			
Brown	2.8	94%	2.4	\$ 21,843	2.8	94%	2.4			
Buffalo	4.6	10%	49.1	\$ 24,830	4.6	31%	15.7	-	0%	2,453.7
Burt	6.2	100%	12.5	\$ 25,203	6.2	100%	12.5			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Butler	7.8	99%	13.5	\$ 27,673	4.9	99%	8.5	2.9	100%	2,228.1
Cass	13.2	52%	45.6	\$ 29,638	13.2	71%	33.6	0.0	0%	2,230.0
Cedar	8.1	99%	11.0	\$ 25,738	8.1	99%	11.0			
Chase	3.2	80%	4.4	\$ 28,241	3.2	80%	4.4			
Cherry	4.5	83%	0.9	\$ 25,213	2.8	98%	0.5	1.7	67%	1,411.8
Cheyenne	2.8	28%	8.3	\$ 28,296	2.8	78%	3.0	-	0%	1,996.6
Clay	4.7	76%	10.8	\$ 23,876	4.7	76%	10.8			
Colfax	10.4	99%	25.6	\$ 23,751	3.8	97%	9.7	6.6	100%	2,596.3
Cuming	8.7	100%	15.3	\$ 24,496	5.7	100%	10.0	3.1	100%	2,017.4
Custer	10.4	99%	4.1	\$ 24,615	7.0	99%	2.7	3.4	100%	1,784.6
Dakota	7.0	33%	81.5	\$ 20,179	3.9	90%	17.1	3.1	18%	1,603.9
Dawes	8.9	98%	6.5	\$ 21,137	3.4	95%	2.6	5.5	100%	2,898.5
Dawson	3.6	15%	24.0	\$ 20,142	3.6	56%	6.4	-	0%	2,397.8
Deuel	0.9	49%	4.1	\$ 27,199	0.9	49%	4.1			
Dixon	5.9	100%	12.5	\$ 23,769	5.9	100%	12.5			
Dodge	26.0	70%	70.0	\$ 24,588	8.4	94%	17.2	17.6	63%	2,575.5
Douglas	15.1	3%	1,643.3	\$ 29,180	3.4	29%	73.9	11.7	2%	3,129.0
Dundy	0.7	36%	2.0	\$ 28,502	0.7	36%	2.0			
Fillmore	3.7	67%	9.6	\$ 25,460	3.7	67%	9.6			
Franklin	1.1	35%	5.3	\$ 26,095	1.1	35%	5.3			
Frontier	2.5	96%	2.7	\$ 25,262	2.5	96%	2.7			
Furnas	3.3	70%	6.6	\$ 22,068	3.3	70%	6.6			
Gage	8.0	37%	25.8	\$ 24,555	8.0	83%	11.5	-	0%	1,833.5
Garden	1.8	97%	1.1	\$ 26,715	1.8	97%	1.1			
Garfield	1.9	95%	3.6	\$ 22,092	1.9	95%	3.6			
Gosper	1.6	82%	4.3	\$ 23,266	1.6	82%	4.3			
Grant	0.6	100%	0.7	\$ 19,968	0.6	100%	0.7			
Greeley	1.9	80%	4.3	\$ 23,833	1.9	80%	4.3			
Hall	4.3	7%	111.3	\$ 23,380	4.3	51%	16.3	0.0	0%	1,891.2
Hamilton	7.4	83%	16.3	\$ 26,715	3.5	80%	8.1	3.9	86%	2,123.1
Harlan	1.6	49%	5.8	\$ 25,322	1.6	49%	5.8			
Hayes	0.9	98%	1.3	\$ 23,749	0.9	98%	1.3			
Hitchcock	2.6	95%	3.9	\$ 23,554	2.6	95%	3.9			
Holt	8.9	90%	4.1	\$ 24,120	6.2	98%	2.6	2.7	74%	1,725.8
Hooker	0.7	100%	1.0	\$ 20,737	0.7	100%	1.0			
Howard	3.3	55%	10.6	\$ 26,770	3.3	55%	10.6			
Jefferson	7.0	97%	12.6	\$ 24,777	3.2	93%	6.1	3.8	100%	1,872.6
Johnson	4.1	76%	14.3	\$ 19,435	4.1	76%	14.3			
Kearney	1.5	24%	12.0	\$ 27,796	1.5	45%	6.5	0.0	0%	1,986.9
Keith	2.9	36%	7.6	\$ 25,097	2.9	76%	3.6	-	0%	2,020.8
Keya Paha	0.3	37%	1.0	\$ 25,251	0.3	37%	1.0			
Kimball	1.1	30%	3.8	\$ 24,565	1.1	30%	3.8			
Knox	8.3	98%	7.6	\$ 25,214	8.3	98%	7.6			
Lancaster	16.2	5%	357.3	\$ 27,141	15.4	61%	33.7	0.8	0%	3,055.5



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Lincoln	8.6	23%	14.4	\$ 26,188	8.5	76%	4.4	0.1	1%	2,150.7
Logan	0.8	100%	1.3	\$ 22,799	0.8	100%	1.3			
Loup	0.6	96%	1.1	\$ 21,499	0.6	96%	1.1			
McPherson	0.5	100%	0.6	\$ 25,339	0.5	100%	0.6			
Madison	24.0	69%	60.9	\$ 24,593	4.2	45%	16.5	19.8	77%	2,183.3
Merrick	6.8	89%	15.7	\$ 24,639	4.0	90%	9.2	2.8	88%	1,469.1
Morrill	1.9	39%	3.4	\$ 22,543	1.9	39%	3.4			
Nance	3.6	100%	8.1	\$ 23,684	3.6	100%	8.1			
Nemaha	5.7	81%	17.4	\$ 25,269	2.7	75%	9.0	3.0	87%	1,704.9
Nuckolls	3.7	88%	7.3	\$ 22,448	3.7	88%	7.3			
Otoe	12.4	78%	25.6	\$ 25,855	6.6	75%	14.2	5.8	82%	2,080.2
Pawnee	2.2	85%	6.0	\$ 25,426	2.2	85%	6.0			
Perkins	2.6	100%	2.9	\$ 27,931	2.6	100%	2.9			
Phelps	1.7	19%	16.5	\$ 26,856	1.7	46%	7.0	0.0	0%	2,218.9
Pierce	3.5	50%	12.1	\$ 24,830	3.5	50%	12.1			
Platte	15.6	47%	48.8	\$ 24,219	7.4	75%	14.9	8.1	35%	2,861.2
Polk	5.2	99%	12.0	\$ 27,639	5.2	99%	12.0			
Red Willow	10.0	92%	15.1	\$ 23,320	2.6	76%	4.8	7.4	100%	1,595.3
Richardson	7.2	92%	14.2	\$ 23,566	3.3	85%	7.1	4.0	100%	2,137.5
Rock	1.4	100%	1.4	\$ 24,501	1.4	100%	1.4			
Saline	10.7	75%	24.7	\$ 20,407	4.5	64%	12.2	6.2	86%	2,862.2
Sarpy	6.6	4%	723.9	\$ 30,189	1.9	21%	52.9	4.7	3%	2,392.1
Saunders	13.0	62%	27.9	\$ 30,039	12.9	94%	18.5	0.1	1%	2,090.2
Scotts Bluff	5.3	14%	50.0	\$ 23,220	5.2	49%	14.6	0.0	0%	2,009.1
Seward	12.2	73%	29.4	\$ 28,359	7.3	73%	17.6	4.9	72%	2,548.7
Sheridan	4.8	100%	2.0	\$ 22,551	4.8	100%	2.0			
Sherman	1.6	52%	5.3	\$ 24,837	1.6	52%	5.3			
Sioux	1.2	98%	0.6	\$ 31,517	1.2	98%	0.6			
Stanton	6.0	100%	13.9	\$ 23,131	4.3	100%	10.1	1.6	100%	2,773.2
Thayer	3.9	80%	8.5	\$ 26,965	3.9	80%	8.5			
Thomas	0.6	100%	0.9	\$ 30,116	0.6	100%	0.9			
Thurston	6.8	100%	17.3	\$ 17,106	6.8	100%	17.3			
Valley	1.9	46%	7.1	\$ 23,227	1.9	46%	7.1			
Washington	20.2	99%	52.1	\$ 29,328	12.5	99%	32.8	7.7	100%	1,908.2
Wayne	9.4	100%	21.2	\$ 24,448	3.8	100%	8.6	5.6	100%	3,121.5
Webster	1.8	51%	6.2	\$ 21,423	1.8	51%	6.2			
Wheeler	0.8	100%	1.4	\$ 25,898	0.8	100%	1.4			
York	9.2	70%	23.2	\$ 28,207	4.2	74%	10.0	5.0	66%	2,059.1
<b>Nevada</b>	<b>173.2</b>	<b>6%</b>	<b>26.2</b>		<b>98.4</b>	<b>64%</b>	<b>1.4</b>	<b>74.8</b>	<b>3%</b>	<b>3,546.6</b>
Churchill	3.6	15%	5.0	\$ 24,716	3.6	45%	1.6	-	0%	1,169.5
Clark	32.1	2%	266.0	\$ 26,217	19.7	72%	3.7	12.5	1%	4,715.1
Douglas	3.4	7%	67.3	\$ 34,123	3.4	26%	18.9	-	0%	1,708.0
Elko	14.8	30%	2.9	\$ 28,358	8.4	51%	1.0	6.3	20%	1,561.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Esmeralda	0.7	97%	0.2	\$ 20,862	0.7	97%	0.2			
Eureka	2.1	100%	0.5	\$ 28,056	2.1	100%	0.5			
Humboldt	16.3	100%	1.7	\$ 26,515	6.1	100%	0.6	10.2	100%	1,120.4
Lander	5.8	100%	1.0	\$ 29,800	2.3	100%	0.4	3.4	100%	1,760.6
Lincoln	1.5	26%	0.5	\$ 22,879	1.5	26%	0.5			
Lyon	12.6	22%	28.5	\$ 21,757	9.5	50%	9.7	3.1	8%	2,145.2
Mineral	4.5	100%	1.2	\$ 23,146	1.0	100%	0.3	3.5	100%	2,954.2
Nye	45.1	97%	2.6	\$ 21,838	14.2	91%	0.9	30.9	100%	699.6
Pershing	6.5	99%	1.1	\$ 18,203	6.5	99%	1.1			
Storey	3.5	84%	15.8	\$ 33,472	3.5	90%	14.7	-	0%	781.6
Washoe	9.6	2%	70.0	\$ 28,670	9.4	51%	3.0	0.2	0%	2,411.6
White Pine	10.2	100%	1.1	\$ 24,435	5.6	100%	0.6	4.6	100%	1,799.5
Carson City	1.0	2%	377.2	\$ 26,264	1.0	47%	17.6	0.0	0%	2,566.2
<b>New Hampshire</b>	<b>227.6</b>	<b>17%</b>	<b>149.2</b>		<b>191.0</b>	<b>36%</b>	<b>64.3</b>	<b>36.6</b>	<b>5%</b>	<b>1,244.4</b>
Belknap	46.7	77%	151.6	\$ 30,518	40.0	97%	106.6	6.7	34%	1,305.7
Carroll	8.6	18%	52.2	\$ 31,558	8.6	20%	47.4	-	0%	619.0
Cheshire	18.8	24%	109.8	\$ 27,874	18.5	36%	73.4	0.3	1%	1,836.8
Coos	11.7	36%	18.1	\$ 24,367	11.7	53%	12.2	-	0%	1,951.6
Grafton	22.5	25%	53.4	\$ 30,738	21.0	33%	37.2	1.5	5%	1,414.1
Hillsborough	11.4	3%	463.2	\$ 34,390	10.1	12%	126.8	1.2	0%	1,624.8
Merrimack	39.4	27%	159.1	\$ 31,310	29.7	36%	92.8	9.7	14%	1,246.8
Rockingham	15.0	5%	431.3	\$ 38,399	12.8	17%	173.2	2.2	1%	865.3
Strafford	43.1	34%	342.2	\$ 29,369	28.7	69%	135.4	14.4	17%	1,399.9
Sullivan	10.5	23%	82.9	\$ 28,582	9.9	35%	54.2	0.5	3%	1,415.3
<b>New Jersey</b>	<b>172.3</b>	<b>2%</b>	<b>1,210.2</b>		<b>60.3</b>	<b>13%</b>	<b>106.0</b>	<b>112.0</b>	<b>1%</b>	<b>2,887.3</b>
Atlantic	15.2	5%	504.2	\$ 27,391	4.7	13%	80.4	10.5	4%	2,127.6
Bergen	1.6	0%	3,903.2	\$ 43,347	0.2	19%	68.5	1.4	0%	4,158.9
Burlington	17.5	4%	567.6	\$ 36,835	3.8	13%	51.8	13.7	3%	1,925.6
Camden	10.6	2%	2,329.2	\$ 30,592	1.5	18%	124.5	9.0	2%	3,305.0
Cape May	4.0	4%	377.0	\$ 32,948	2.9	17%	89.3	1.2	2%	1,335.1
Cumberland	12.5	8%	331.5	\$ 22,524	9.1	25%	86.5	3.4	3%	1,851.0
Essex	4.0	1%	6,181.4	\$ 32,181	-	0%	31.2	4.0	1%	6,364.5
Gloucester	4.2	1%	929.2	\$ 32,600	0.7	3%	154.1	3.5	1%	1,730.5
Hudson	0.5	0%	14,046.8	\$ 32,641				0.5	0%	14,046.8
Hunterdon	17.6	14%	301.8	\$ 50,349	13.6	21%	172.3	4.1	6%	1,113.8
Mercer	7.4	2%	1,651.8	\$ 37,465	0.3	2%	137.2	7.1	2%	2,689.4
Middlesex	4.7	1%	2,676.2	\$ 34,345	0.1	1%	104.4	4.6	1%	3,257.4
Monmouth	3.3	1%	1,349.7	\$ 42,749	0.9	4%	147.4	2.4	0%	1,995.8
Morris	1.9	0%	1,079.5	\$ 48,814	1.7	5%	166.2	0.2	0%	1,781.4
Ocean	9.9	2%	954.2	\$ 30,477	1.5	8%	46.7	8.4	1%	2,307.0
Passaic	5.0	1%	2,739.1	\$ 27,152	2.9	24%	134.8	2.2	0%	5,241.2
Salem	3.7	6%	200.4	\$ 28,772	2.9	10%	96.4	0.8	2%	1,672.5
Somerset	3.0	1%	1,097.0	\$ 47,803	1.8	10%	135.9	1.2	0%	1,774.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Sussex	4.3	3%	287.4	\$ 37,949	4.3	7%	131.7	-	0%	1,321.9
Union	1.3	0%	5,250.1	\$ 35,089				1.3	0%	5,250.1
Warren	40.0	36%	306.9	\$ 33,555	7.5	18%	127.9	32.4	47%	1,950.7
<b>New Mexico</b>	<b>643.0</b>	<b>30%</b>	<b>17.6</b>		<b>356.2</b>	<b>77%</b>	<b>3.9</b>	<b>286.8</b>	<b>17%</b>	<b>2,021.9</b>
Bernalillo	24.4	3%	602.2	\$ 26,814	14.8	50%	30.9	9.6	1%	3,429.4
Catron	3.8	100%	0.5	\$ 20,616	3.8	100%	0.5			
Chaves	44.7	66%	11.1	\$ 19,492	15.1	94%	2.6	29.6	58%	1,903.0
Cibola	26.3	97%	6.0	\$ 16,129	14.9	98%	3.3	11.4	95%	1,480.6
Colfax	12.8	100%	3.4	\$ 21,387	6.6	100%	1.8	6.3	100%	1,661.9
Curry	28.6	58%	34.8	\$ 21,259	6.3	96%	4.7	22.4	53%	1,880.0
De Baca	1.9	100%	0.8	\$ 24,879	1.9	100%	0.8			
Dona Ana	66.8	30%	58.2	\$ 19,565	28.1	70%	10.7	38.7	21%	2,002.7
Eddy	8.8	16%	13.0	\$ 28,438	6.8	64%	2.6	2.0	5%	1,539.5
Grant	9.4	32%	7.4	\$ 22,755	8.4	69%	3.1	1.0	6%	1,316.8
Guadalupe	4.5	100%	1.5	\$ 14,198	2.0	100%	0.7	2.5	100%	1,169.1
Harding	0.7	100%	0.3	\$ 25,686	0.7	100%	0.3			
Hidalgo	4.3	100%	1.3	\$ 18,392	4.3	100%	1.3			
Lea	22.0	32%	15.5	\$ 22,484	8.6	62%	3.2	13.4	25%	1,887.0
Lincoln	9.3	45%	4.3	\$ 25,449	7.1	65%	2.3	2.2	23%	1,121.1
Los Alamos	1.2	7%	162.1	\$ 51,044	1.0	49%	19.7	0.2	1%	1,574.4
Luna	10.2	40%	8.5	\$ 16,114	8.2	80%	3.4	2.0	13%	1,805.2
McKinley	49.9	71%	12.9	\$ 12,679	39.6	98%	7.4	10.3	34%	1,727.5
Mora	4.7	100%	2.5	\$ 20,543	4.7	100%	2.5			
Otero	21.0	33%	9.7	\$ 19,880	12.9	68%	2.9	8.1	18%	1,775.4
Quay	8.4	100%	2.9	\$ 17,936	3.5	100%	1.2	5.0	100%	1,657.0
Rio Arriba	39.6	100%	6.8	\$ 20,014	19.7	100%	3.4	19.9	100%	844.7
Roosevelt	8.2	40%	8.3	\$ 17,477	6.5	88%	3.0	1.7	13%	2,353.6
Sandoval	54.5	37%	39.3	\$ 26,924	18.6	80%	6.4	35.9	29%	2,170.2
San Juan	42.2	31%	24.4	\$ 21,260	28.3	66%	7.9	14.0	15%	1,452.4
San Miguel	27.4	95%	6.1	\$ 17,926	14.1	99%	3.0	13.3	90%	1,525.2
Santa Fe	31.3	21%	78.2	\$ 32,298	19.0	50%	20.6	12.3	11%	1,452.0
Sierra	10.8	100%	2.6	\$ 17,752	3.5	100%	0.8	7.3	100%	966.5
Socorro	17.7	100%	2.7	\$ 18,104	8.7	100%	1.3	8.9	100%	1,450.5
Taos	18.3	54%	15.2	\$ 21,333	15.4	79%	9.0	2.9	21%	871.0
Torrance	11.6	72%	4.8	\$ 18,675	11.6	73%	4.7	-	0%	879.6
Union	4.6	99%	1.2	\$ 18,472	4.6	99%	1.2			
Valencia	13.3	17%	75.3	\$ 19,623	7.1	52%	13.6	6.2	9%	962.5
<b>New York</b>	<b>518.0</b>	<b>3%</b>	<b>414.4</b>		<b>496.4</b>	<b>21%</b>	<b>54.2</b>	<b>21.6</b>	<b>0%</b>	<b>4,203.1</b>
Albany	4.4	1%	584.7	\$ 32,328	4.4	15%	71.7	0.0	0%	2,266.1
Allegany	14.2	29%	46.8	\$ 20,978	14.2	37%	37.2	-	0%	1,820.6
Bronx	12.7	1%	33,857.2	\$ 18,171	0.0	94%	19.9	12.6	1%	35,956.9
Broome	11.6	6%	282.4	\$ 24,835	11.2	22%	80.1	0.4	0%	2,223.8
Cattaraugus	35.7	45%	60.0	\$ 22,049	30.2	62%	37.8	5.5	18%	1,608.5

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Cayuga	20.4	26%	114.0	\$ 24,702	20.4	46%	65.0	-	0%	2,346.0
Chautauqua	16.2	12%	124.8	\$ 22,168	16.2	28%	55.8	-	0%	1,989.7
Chemung	3.9	4%	215.0	\$ 25,329	3.9	19%	56.7	-	0%	1,821.9
Chenango	12.2	25%	55.8	\$ 22,097	12.2	29%	46.7	-	0%	2,336.7
Clinton	8.6	10%	79.7	\$ 24,676	8.6	16%	52.6	-	0%	1,141.1
Columbia	28.0	45%	98.4	\$ 33,613	27.9	61%	73.7	0.1	0%	1,478.7
Cortland	7.3	15%	98.7	\$ 23,179	7.3	34%	44.4	-	0%	2,582.9
Delaware	24.6	52%	33.0	\$ 23,677	24.6	66%	25.8	-	0%	1,970.4
Dutchess	5.8	2%	377.6	\$ 33,594	5.8	8%	119.5	0.0	0%	1,292.1
Eric	8.4	1%	867.1	\$ 27,978	8.3	10%	116.8	0.0	0%	2,498.5
Essex	11.2	29%	21.8	\$ 26,582	11.2	38%	16.3	-	0%	1,685.3
Franklin	13.1	26%	31.4	\$ 21,575	13.1	40%	20.0	-	0%	1,872.6
Fulton	4.5	8%	112.0	\$ 23,839	4.5	16%	57.9	-	0%	1,952.6
Genesee	2.8	5%	120.9	\$ 25,403	2.8	8%	73.8	-	0%	2,070.5
Greene	3.2	7%	76.1	\$ 25,700	3.2	9%	56.5	-	0%	1,562.8
Hamilton	3.1	67%	2.7	\$ 28,265	3.1	67%	2.7	-	-	-
Herkimer	10.1	16%	45.4	\$ 23,418	10.1	30%	23.8	-	0%	1,769.0
Jefferson	16.1	14%	93.9	\$ 23,078	16.1	28%	47.1	-	0%	1,432.5
Kings	0.1	0%	35,895.5	\$ 25,289	-	0%	1.4	0.1	0%	39,457.1
Lewis	7.9	29%	21.1	\$ 22,942	7.9	34%	18.4	-	0%	1,963.0
Livingston	4.9	8%	103.3	\$ 23,978	4.9	14%	58.0	-	0%	1,458.2
Madison	7.0	9%	113.4	\$ 25,230	7.0	16%	68.8	-	0%	1,800.3
Monroe	1.1	0%	1,131.9	\$ 28,732	1.1	2%	129.2	-	0%	2,365.9
Montgomery	8.2	16%	124.5	\$ 23,417	8.2	40%	53.1	-	0%	1,832.9
Nassau	-	0%	4,685.2	\$ 42,400	-	0%	97.4	-	0%	5,144.6
New York	1.1	0%	70,635.5	\$ 62,498	-	-	-	1.1	0%	70,635.5
Niagara	1.4	1%	410.7	\$ 25,991	1.4	3%	113.2	-	0%	1,771.2
Oneida	9.2	4%	193.7	\$ 25,103	9.2	12%	67.2	-	0%	1,787.8
Onondaga	3.3	1%	600.7	\$ 28,746	3.3	6%	98.9	-	0%	2,162.8
Ontario	6.2	6%	170.3	\$ 29,904	6.2	12%	85.9	-	0%	1,460.5
Orange	2.8	1%	469.4	\$ 30,583	2.8	3%	136.0	-	0%	1,601.4
Orleans	1.5	4%	107.6	\$ 22,255	1.5	6%	67.3	-	0%	1,987.3
Oswego	7.3	6%	127.5	\$ 23,126	7.3	10%	79.5	-	0%	1,659.7
Otsego	14.1	23%	61.6	\$ 24,165	14.1	33%	43.5	-	0%	1,890.4
Putnam	1.4	1%	433.2	\$ 40,309	1.1	5%	135.6	0.3	0%	988.3
Queens	0.0	0%	20,767.0	\$ 26,495	-	-	-	0.0	0%	21,341.9
Rensselaer	13.5	8%	246.8	\$ 29,987	13.5	28%	84.0	-	0%	1,625.1
Richmond	0.0	0%	8,231.5	\$ 31,823	-	-	-	0.0	0%	8,231.5
Rockland	0.1	0%	1,838.5	\$ 34,591	0.1	6%	42.8	-	0%	2,653.8
St. Lawrence	21.8	20%	41.6	\$ 22,198	21.8	31%	26.1	-	0%	2,161.1
Saratoga	2.6	1%	277.0	\$ 35,176	2.6	4%	94.6	-	0%	1,517.9
Schenectady	1.2	1%	769.1	\$ 28,319	1.2	10%	86.4	0.0	0%	2,393.0
Schoharie	11.4	35%	52.7	\$ 26,584	11.4	42%	43.9	-	0%	1,785.9
Schuyler	7.6	42%	54.3	\$ 24,173	7.6	52%	44.8	-	0%	1,271.3

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Seneca	5.1	15%	109.5	\$ 23,115	5.1	24%	67.0	-	0%	1,697.3
Steuben	21.0	21%	70.6	\$ 25,371	21.0	36%	43.1	0.0	0%	1,869.4
Suffolk	3.1	0%	1,650.4	\$ 36,945	1.9	5%	119.2	1.2	0%	2,478.1
Sullivan	5.3	7%	80.7	\$ 24,963	5.3	9%	60.7	-	0%	1,391.3
Tioga	8.6	17%	97.6	\$ 27,230	8.6	26%	65.8	-	0%	1,377.6
Tompkins	7.7	7%	217.5	\$ 27,418	7.7	18%	98.7	-	0%	2,075.3
Ulster	8.9	5%	162.4	\$ 30,442	8.9	11%	80.6	-	0%	1,182.6
Warren	6.7	10%	76.3	\$ 30,351	6.7	30%	26.5	-	0%	1,454.6
Washington	16.2	25%	76.6	\$ 24,168	16.2	38%	52.5	-	0%	1,929.8
Wayne	5.6	6%	154.4	\$ 25,327	5.6	10%	97.4	-	0%	1,185.6
Westchester	0.7	0%	2,215.3	\$ 47,984	0.7	2%	198.9	-	0%	3,354.8
Wyoming	6.8	16%	70.0	\$ 22,700	6.8	26%	44.7	-	0%	2,442.6
Yates	8.4	33%	75.2	\$ 24,457	8.3	45%	54.5	0.1	1%	1,866.7
<b>North Carolina</b>	<b>1,446.2</b>	<b>14%</b>	<b>205.2</b>		<b>1,153.7</b>	<b>35%</b>	<b>75.1</b>	<b>292.5</b>	<b>4%</b>	<b>1,447.3</b>
Alamance	8.3	5%	369.2	\$ 23,166	8.3	19%	128.7	-	0%	1,438.2
Alexander	4.8	13%	146.1	\$ 20,440	4.8	17%	112.1	-	0%	729.5
Alleghany	9.7	87%	47.5	\$ 19,510	9.7	87%	47.5	-	-	-
Anson	15.3	57%	50.7	\$ 16,752	15.3	72%	40.3	-	0%	1,094.9
Ashe	24.3	88%	65.2	\$ 20,838	20.2	86%	56.1	4.1	99%	758.4
Avery	7.5	42%	72.1	\$ 21,598	5.4	35%	64.4	2.0	99%	892.8
Beaufort	34.1	71%	58.1	\$ 21,636	20.7	66%	38.5	13.4	79%	1,074.1
Bertie	9.9	46%	30.9	\$ 17,096	8.7	49%	25.3	1.1	29%	1,664.2
Bladen	17.0	48%	40.4	\$ 19,154	17.0	53%	37.2	-	0%	1,172.3
Brunswick	57.6	49%	140.2	\$ 26,839	36.2	73%	63.8	21.4	31%	969.1
Buncombe	12.4	5%	375.6	\$ 26,159	12.0	20%	117.3	0.4	0%	1,220.9
Burke	5.4	6%	178.3	\$ 19,701	5.4	14%	88.0	-	0%	741.1
Cabarrus	4.2	2%	533.2	\$ 25,247	4.2	12%	141.6	-	0%	1,439.4
Caldwell	5.9	7%	177.6	\$ 19,228	5.9	20%	71.2	-	0%	808.4
Camden	3.3	30%	45.7	\$ 25,620	3.3	30%	45.5	0.0	16%	2,170.4
Carteret	2.7	4%	134.5	\$ 27,496	2.7	12%	48.4	-	0%	961.8
Caswell	15.8	68%	55.0	\$ 17,975	15.7	68%	54.6	0.1	53%	953.7
Catawba	1.3	1%	393.6	\$ 23,232	1.3	3%	176.8	-	0%	862.8
Chatham	25.2	37%	99.0	\$ 31,175	25.2	58%	65.7	0.0	0%	1,391.4
Cherokee	27.3	97%	61.7	\$ 18,340	27.3	97%	61.7	-	-	-
Chowan	3.6	24%	88.2	\$ 19,240	3.6	34%	61.5	0.0	1%	1,564.9
Clay	10.7	97%	51.5	\$ 22,081	10.7	97%	51.5	-	-	-
Cleveland	6.3	6%	210.2	\$ 20,062	6.3	12%	129.5	-	0%	998.4
Columbus	16.5	28%	62.1	\$ 19,275	14.7	32%	50.3	1.8	15%	895.0
Craven	46.1	43%	150.0	\$ 24,260	20.4	71%	44.2	25.7	33%	1,312.3
Cumberland	8.6	3%	505.5	\$ 23,067	7.7	18%	88.2	0.9	0%	1,733.9
Currituck	9.4	37%	96.0	\$ 25,854	9.4	38%	94.7	-	0%	552.1
Dare	0.9	2%	97.5	\$ 30,529	0.9	8%	31.1	-	0%	932.7
Davidson	18.2	11%	300.4	\$ 22,549	16.5	21%	169.7	1.7	2%	958.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Davie	2.7	6%	162.9	\$ 26,319	2.7	9%	120.3	-	0%	888.3
Duplin	21.7	36%	74.5	\$ 17,122	21.6	41%	64.9	0.0	1%	1,394.0
Durham	2.4	1%	986.9	\$ 29,347	2.4	16%	100.8	-	0%	1,988.7
Edgecombe	49.0	88%	110.5	\$ 16,971	24.6	97%	52.5	24.3	80%	1,451.1
Forsyth	1.8	0%	889.9	\$ 26,541	1.4	5%	153.8	0.4	0%	1,403.0
Franklin	15.0	23%	131.3	\$ 21,399	15.0	27%	113.6	-	0%	980.7
Gaston	0.7	0%	591.9	\$ 22,658	0.7	2%	187.0	-	0%	1,247.6
Gates	12.6	99%	37.2	\$ 21,187	12.6	99%	37.2	-	-	-
Graham	8.8	98%	30.6	\$ 19,780	8.8	98%	30.6	-	-	-
Granville	18.3	29%	118.5	\$ 22,295	12.6	37%	67.7	5.7	20%	1,123.0
Greene	21.4	98%	82.4	\$ 18,441	21.4	98%	82.4	-	-	-
Guilford	2.9	1%	786.2	\$ 26,461	2.9	5%	163.1	-	0%	1,766.7
Halifax	20.2	38%	73.4	\$ 17,937	18.0	62%	40.8	2.3	9%	1,549.6
Harnett	12.5	10%	205.4	\$ 20,310	11.0	16%	122.2	1.5	3%	1,173.9
Haywood	12.5	21%	108.2	\$ 24,536	12.5	37%	63.4	-	0%	1,084.8
Henderson	14.4	13%	299.4	\$ 25,670	10.4	28%	129.9	4.0	5%	874.3
Hertford	4.8	19%	70.0	\$ 17,863	4.8	28%	48.2	-	0%	1,799.2
Hoke	9.4	18%	132.4	\$ 18,761	9.4	44%	58.4	0.0	0%	1,196.8
Hyde	6.1	100%	10.0	\$ 18,408	6.1	100%	10.0	-	-	-
Iredell	12.9	8%	297.3	\$ 26,467	12.9	20%	132.8	-	0%	1,109.4
Jackson	25.7	62%	84.9	\$ 21,014	23.8	79%	62.5	1.9	17%	1,467.5
Johnston	15.8	9%	232.6	\$ 22,410	15.0	16%	133.3	0.8	1%	1,027.1
Jones	6.9	68%	21.3	\$ 20,105	6.9	68%	21.3	-	-	-
Lee	3.8	6%	236.7	\$ 21,449	3.8	15%	113.9	-	0%	1,196.0
Lenoir	43.9	75%	146.7	\$ 19,760	19.5	73%	73.5	24.4	76%	910.0
Lincoln	0.6	1%	277.4	\$ 25,550	0.6	1%	177.1	-	0%	857.9
McDowell	11.4	25%	103.1	\$ 18,932	11.2	35%	75.2	0.2	1%	856.7
Macon	16.2	47%	67.4	\$ 23,213	16.1	58%	55.0	0.1	1%	756.2
Madison	9.2	44%	46.4	\$ 19,902	9.2	49%	42.0	-	0%	1,284.4
Martin	14.5	61%	51.4	\$ 18,783	14.0	76%	40.3	0.5	10%	1,588.9
Mecklenburg	0.2	0%	1,899.4	\$ 32,482	0.2	2%	141.7	0.1	0%	2,183.4
Mitchell	15.0	98%	69.1	\$ 21,404	12.3	98%	58.4	2.7	100%	524.1
Montgomery	17.5	63%	56.2	\$ 18,865	13.9	66%	43.2	3.7	55%	1,047.6
Moore	20.5	22%	131.3	\$ 28,913	20.5	45%	70.2	-	0%	995.0
Nash	56.0	57%	180.5	\$ 22,880	23.5	51%	91.2	32.6	63%	1,535.7
New Hanover	0.3	0%	1,126.9	\$ 29,679	0.3	7%	54.7	0.0	0%	1,921.5
Northampton	6.9	32%	40.4	\$ 17,919	6.9	36%	36.2	0.0	0%	1,161.2
Onslow	11.7	6%	246.2	\$ 21,084	8.6	17%	76.4	3.1	2%	1,283.5
Orange	12.1	9%	347.8	\$ 34,465	12.1	31%	111.0	-	0%	2,000.8
Pamlico	2.6	20%	39.4	\$ 23,724	2.6	20%	39.4	-	-	-
Pasquotank	5.9	14%	188.1	\$ 22,745	5.9	33%	85.0	-	0%	1,464.8
Pender	15.8	28%	64.1	\$ 23,526	15.8	42%	44.3	-	0%	880.7
Perquimans	5.7	40%	58.4	\$ 23,809	5.7	40%	58.4	-	-	-
Person	4.8	12%	102.1	\$ 21,292	4.8	16%	79.2	-	0%	1,316.3

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Pitt	94.6	53%	274.3	\$ 23,029	32.7	75%	75.7	61.9	46%	1,845.9
Polk	11.9	57%	87.8	\$ 24,611	11.9	62%	81.6	-	0%	945.5
Randolph	22.3	15%	184.0	\$ 20,523	22.3	28%	110.3	0.0	0%	1,090.6
Richmond	5.8	13%	97.1	\$ 17,236	5.8	28%	47.1	-	0%	997.7
Robeson	29.8	22%	143.4	\$ 15,343	29.8	35%	93.8	-	0%	1,195.5
Rockingham	9.7	10%	164.2	\$ 21,102	9.7	17%	108.1	-	0%	1,079.4
Rowan	7.0	5%	274.0	\$ 20,912	7.0	13%	124.7	-	0%	1,097.8
Rutherford	64.5	94%	121.2	\$ 19,551	40.1	96%	79.0	24.4	92%	756.2
Sampson	57.6	90%	67.6	\$ 19,479	48.5	89%	58.1	9.1	97%	1,176.4
Scotland	5.4	15%	112.3	\$ 15,679	5.4	31%	57.8	-	0%	1,089.9
Stanly	4.2	7%	153.6	\$ 20,504	4.2	10%	110.5	-	0%	927.3
Stokes	6.6	14%	106.4	\$ 21,311	6.6	19%	81.9	-	0%	923.8
Surry	5.6	8%	138.5	\$ 20,219	5.6	11%	100.6	-	0%	831.5
Swain	14.6	99%	28.1	\$ 19,626	14.6	99%	28.1	-	-	-
Transylvania	33.6	99%	89.6	\$ 23,757	20.0	99%	55.4	13.6	100%	1,104.5
Tyrrell	3.2	68%	12.0	\$ 16,658	3.2	68%	12.0	-	-	-
Union	10.3	5%	358.6	\$ 28,894	10.3	18%	112.6	0.0	0%	1,387.5
Vance	4.5	10%	179.1	\$ 17,905	4.5	18%	106.5	-	0%	1,114.0
Wake	6.4	1%	1,187.4	\$ 33,166	5.2	9%	159.0	1.2	0%	1,978.8
Warren	11.6	56%	48.7	\$ 19,052	11.6	56%	48.7	-	-	-
Washington	3.4	26%	37.9	\$ 18,779	3.3	37%	26.0	0.1	3%	1,170.2
Watauga	3.9	7%	169.8	\$ 21,854	3.9	13%	96.9	-	0%	1,789.4
Wayne	9.2	7%	224.5	\$ 21,557	8.8	15%	118.9	0.4	1%	1,163.7
Wilkes	9.2	13%	92.0	\$ 19,029	9.1	18%	69.4	0.0	0%	701.4
Wilson	2.7	3%	225.2	\$ 20,972	2.1	7%	93.4	0.6	1%	2,030.5
Yadkin	6.1	16%	115.7	\$ 22,726	6.1	19%	99.6	-	0%	1,022.3
Yancey	16.9	96%	56.4	\$ 20,257	16.9	96%	56.4	-	-	-
<b>North Dakota</b>	<b>102.3</b>	<b>15%</b>	<b>10.0</b>		<b>97.9</b>	<b>37%</b>	<b>3.8</b>	<b>4.4</b>	<b>1%</b>	<b>2,322.5</b>
Adams	0.3	14%	2.3	\$ 31,502	0.3	14%	2.3	-	-	-
Barnes	3.2	29%	7.3	\$ 31,721	3.2	75%	2.9	0.0	0%	1,393.7
Benson	4.9	78%	4.6	\$ 18,162	4.9	78%	4.6	-	-	-
Billings	0.7	90%	0.6	\$ 37,972	0.7	90%	0.6	-	-	-
Bottineau	1.4	23%	3.7	\$ 31,969	1.4	23%	3.7	-	-	-
Bowman	0.4	12%	2.7	\$ 32,045	0.4	12%	2.7	-	-	-
Burke	1.6	89%	1.7	\$ 32,908	1.6	89%	1.7	-	-	-
Burleigh	1.6	2%	53.4	\$ 32,876	1.6	10%	10.0	-	0%	2,334.3
Cass	11.4	7%	91.7	\$ 30,529	7.1	44%	9.5	4.3	3%	2,749.4
Cavalier	0.9	25%	2.5	\$ 32,028	0.9	25%	2.5	-	-	-
Dickey	0.4	8%	4.5	\$ 24,644	0.4	8%	4.5	-	-	-
Divide	1.7	86%	1.6	\$ 36,303	1.7	86%	1.6	-	-	-
Dunn	1.2	34%	1.7	\$ 33,788	1.2	34%	1.7	-	-	-
Eddy	0.8	35%	3.5	\$ 27,323	0.8	35%	3.5	-	-	-
Emmons	0.3	11%	2.1	\$ 27,690	0.3	11%	2.1	-	-	-

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Foster	0.1	3%	4.0	\$ 33,063	0.1	3%	4.0			
Golden Valley	1.5	99%	1.6	\$ 26,113	1.5	99%	1.6			
Grand Forks	7.1	10%	47.3	\$ 27,026	7.1	65%	7.7	-	0%	2,534.7
Grant	0.7	31%	1.3	\$ 28,129	0.7	31%	1.3			
Griggs	0.5	20%	3.2	\$ 27,197	0.5	20%	3.2			
Hettinger	0.3	11%	2.1	\$ 27,910	0.3	11%	2.1			
Kidder	0.3	11%	1.7	\$ 28,904	0.3	11%	1.7			
LaMoure	0.3	7%	3.4	\$ 31,989	0.3	7%	3.4			
Logan	0.3	16%	1.9	\$ 27,887	0.3	16%	1.9			
McHenry	1.8	35%	2.7	\$ 28,331	1.8	35%	2.7			
McIntosh	0.3	11%	2.6	\$ 25,427	0.3	11%	2.6			
McKenzie	2.5	37%	2.4	\$ 33,078	2.5	37%	2.4			
McLean	2.4	27%	4.1	\$ 30,992	2.4	27%	4.1			
Mercer	1.4	17%	7.6	\$ 31,767	1.4	27%	4.8	-	0%	2,135.9
Morton	4.7	16%	14.9	\$ 29,389	4.7	53%	4.6	-	0%	2,100.7
Mountrail	3.4	43%	4.4	\$ 33,803	3.4	43%	4.4			
Nelson	1.4	47%	3.0	\$ 30,432	1.4	47%	3.0			
Oliver	1.1	64%	2.4	\$ 32,253	1.1	64%	2.4			
Pembina	2.3	33%	6.3	\$ 27,817	2.3	33%	6.3			
Pierce	0.6	15%	4.1	\$ 23,491	0.6	45%	1.4	-	0%	1,868.7
Ramsey	1.7	15%	9.6	\$ 28,081	1.7	45%	3.3	-	0%	2,295.4
Ransom	0.4	7%	6.1	\$ 26,137	0.4	7%	6.1			
Renville	0.6	24%	2.7	\$ 31,178	0.6	24%	2.7			
Richland	3.0	19%	10.8	\$ 27,713	3.0	38%	5.5	-	0%	1,694.6
Rolette	6.1	44%	15.5	\$ 15,502	6.1	44%	15.5			
Sargent	0.3	7%	4.2	\$ 29,950	0.3	7%	4.2			
Sheridan	1.0	87%	1.2	\$ 29,219	1.0	87%	1.2			
Sioux	4.2	100%	3.9	\$ 15,478	4.2	100%	3.9			
Slope	0.2	31%	0.6	\$ 30,586	0.2	31%	0.6			
Stark	0.9	4%	18.8	\$ 31,412	0.9	14%	5.0	-	0%	2,444.4
Steele	0.8	42%	2.6	\$ 31,455	0.8	42%	2.6			
Stutsman	1.5	7%	9.4	\$ 27,351	1.5	26%	2.5	-	0%	1,559.8
Towner	0.7	35%	1.9	\$ 33,357	0.7	35%	1.9			
Traill	2.4	30%	9.2	\$ 27,098	2.4	30%	9.2			
Walsh	3.5	33%	8.3	\$ 29,072	3.5	54%	5.1	-	0%	2,250.2
Ward	4.8	7%	32.3	\$ 28,557	4.8	36%	6.7	0.0	0%	1,945.7
Wells	0.6	14%	3.0	\$ 29,301	0.6	14%	3.0			
Williams	6.1	26%	11.4	\$ 38,738	6.1	80%	3.7	0.0	0%	2,238.9
<b>Ohio</b>	<b>1,934.8</b>	<b>17%</b>	<b>283.6</b>		<b>1,229.8</b>	<b>49%</b>	<b>69.6</b>	<b>705.0</b>	<b>8%</b>	<b>2,047.9</b>
Adams	14.6	51%	49.4	\$ 18,235	14.6	57%	44.1	-	0%	1,484.9
Allen	10.7	10%	261.8	\$ 22,295	6.8	25%	78.7	3.9	5%	1,423.1
Ashland	16.7	31%	126.3	\$ 21,940	16.7	50%	80.5	-	0%	2,506.4
Ashtabula	27.8	28%	143.6	\$ 20,011	26.9	57%	71.4	0.9	2%	1,237.0



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Athens	26.0	40%	129.9	\$ 17,019	17.4	63%	56.6	8.6	23%	2,473.8
Auglaize	33.8	74%	113.8	\$ 25,323	13.5	78%	45.2	20.3	72%	1,714.8
Belmont	17.7	25%	131.4	\$ 22,380	15.3	40%	74.4	2.3	7%	1,773.2
Brown	17.2	38%	92.6	\$ 21,206	14.7	42%	71.7	2.5	23%	1,415.8
Butler	8.5	2%	815.8	\$ 26,813	8.5	25%	117.6	-	0%	1,991.2
Carroll	22.0	77%	72.5	\$ 21,783	16.3	81%	52.0	5.7	68%	1,401.5
Champaign	8.5	21%	94.4	\$ 23,358	8.5	29%	68.1	-	0%	2,075.9
Clark	3.0	2%	342.6	\$ 22,780	3.0	9%	94.6	-	0%	1,710.4
Clermont	2.4	1%	452.7	\$ 28,761	2.4	5%	133.4	-	0%	1,460.9
Clinton	11.4	27%	104.3	\$ 22,026	11.4	49%	58.5	-	0%	2,023.0
Columbiana	55.4	52%	199.2	\$ 21,575	31.8	69%	93.6	23.7	39%	1,447.0
Coshocton	13.5	37%	65.0	\$ 20,526	13.3	59%	40.6	0.2	1%	2,146.6
Crawford	8.5	20%	105.7	\$ 21,478	8.5	57%	38.6	-	0%	1,815.8
Cuyahoga	20.6	2%	2,719.2	\$ 27,423	0.4	6%	172.0	20.2	2%	2,974.9
Darke	10.5	20%	87.8	\$ 22,511	10.5	30%	58.8	-	0%	2,346.9
Defiance	10.9	28%	94.1	\$ 22,739	10.9	66%	42.1	0.0	0%	1,407.3
Delaware	7.5	4%	438.8	\$ 40,189	7.5	21%	98.1	-	0%	1,911.9
Eric	74.5	98%	302.4	\$ 26,135	18.9	95%	91.5	55.6	99%	1,630.1
Fairfield	21.0	14%	303.4	\$ 27,031	20.9	41%	112.6	0.1	0%	2,042.6
Fayette	5.0	17%	72.1	\$ 20,603	5.0	36%	34.8	-	0%	2,279.0
Franklin	3.9	0%	2,250.8	\$ 28,283	2.3	15%	102.4	1.7	0%	3,088.4
Fulton	9.9	23%	105.5	\$ 24,771	9.9	42%	60.5	0.0	0%	1,677.0
Gallia	26.4	86%	66.1	\$ 21,168	22.3	88%	54.6	4.2	74%	1,110.0
Geauga	26.9	29%	234.7	\$ 34,455	26.1	44%	168.8	0.8	2%	741.3
Greene	6.9	4%	399.8	\$ 30,040	6.8	28%	70.5	0.1	0%	1,964.3
Guernsey	19.2	48%	75.8	\$ 20,537	16.4	67%	47.5	2.8	18%	1,507.4
Hamilton	0.6	0%	1,952.9	\$ 29,681	0.6	3%	179.1	0.0	0%	2,533.4
Hancock	6.5	9%	142.6	\$ 26,139	6.5	28%	45.7	-	0%	2,060.1
Hardin	9.5	30%	68.2	\$ 19,626	9.5	54%	38.1	0.1	0%	2,465.9
Harrison	15.1	96%	39.2	\$ 21,029	12.6	96%	32.9	2.4	95%	1,487.6
Henry	8.3	30%	66.6	\$ 23,347	8.3	43%	46.7	-	0%	1,584.6
Highland	18.6	42%	79.9	\$ 19,348	18.6	57%	59.0	-	0%	2,016.5
Hocking	26.8	90%	70.5	\$ 21,037	18.1	86%	50.2	8.7	100%	2,115.1
Holmes	43.5	100%	103.0	\$ 17,177	40.6	100%	96.5	2.9	100%	1,641.9
Huron	47.9	80%	121.3	\$ 22,257	28.8	96%	63.0	19.1	65%	2,020.1
Jackson	10.3	31%	79.3	\$ 19,405	10.2	48%	51.7	0.1	1%	1,877.9
Jefferson	23.0	34%	166.8	\$ 22,324	16.1	61%	68.9	6.9	16%	1,521.8
Knox	17.4	28%	119.5	\$ 23,878	17.4	50%	69.1	0.0	0%	1,532.4
Lake	1.3	1%	1,016.4	\$ 29,132	0.5	4%	153.9	0.8	0%	1,659.8
Lawrence	10.1	16%	137.9	\$ 21,365	10.1	36%	65.1	-	0%	1,667.8
Licking	16.3	9%	253.1	\$ 26,716	14.8	25%	96.4	1.5	1%	1,834.7
Logan	11.9	26%	99.6	\$ 22,878	9.9	38%	58.4	1.9	10%	1,809.5
Lorain	40.8	13%	625.0	\$ 26,030	12.8	37%	106.7	28.1	10%	1,660.0
Lucas	1.6	0%	1,282.2	\$ 23,885	1.6	8%	117.5	0.0	0%	2,467.1

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Madison	8.3	19%	95.5	\$ 24,014	8.3	41%	44.0	0.0	0%	2,837.1
Mahoning	83.1	36%	563.3	\$ 23,975	7.3	21%	120.0	75.8	39%	1,713.0
Marion	6.1	9%	164.9	\$ 20,624	6.1	32%	51.3	-	0%	1,703.3
Medina	15.5	9%	422.6	\$ 30,707	10.4	21%	144.5	5.1	4%	1,813.7
Meigs	18.4	77%	55.3	\$ 18,816	15.0	78%	45.2	3.4	76%	1,399.3
Mercer	12.5	31%	88.1	\$ 24,157	12.5	50%	54.6	0.0	0%	2,449.3
Miami	4.3	4%	254.7	\$ 25,369	4.3	14%	84.5	-	0%	2,015.2
Monroe	13.9	100%	30.5	\$ 21,487	13.6	100%	29.8	0.3	100%	305.1
Montgomery	1.8	0%	1,144.8	\$ 24,997	1.8	8%	98.4	0.0	0%	2,198.4
Morgan	8.4	56%	36.1	\$ 21,027	8.4	68%	29.5	-	0%	1,844.8
Morrow	16.3	46%	87.7	\$ 22,228	16.3	52%	77.1	-	0%	1,938.3
Muskingum	11.7	14%	129.9	\$ 20,775	11.7	29%	64.4	-	0%	1,521.5
Noble	7.6	51%	37.3	\$ 18,853	7.6	83%	23.0	-	0%	2,047.4
Ottawa	7.4	18%	160.7	\$ 27,979	7.2	36%	86.8	0.2	1%	969.2
Paulding	11.1	58%	46.3	\$ 22,714	11.1	71%	37.9	-	0%	1,925.7
Perry	30.0	82%	89.9	\$ 19,372	24.9	90%	68.3	5.1	56%	2,104.1
Pickaway	18.7	33%	113.6	\$ 23,851	18.3	65%	58.4	0.4	1%	1,629.9
Pike	14.5	50%	65.7	\$ 20,071	14.4	67%	49.4	0.2	2%	1,215.1
Portage	42.9	26%	334.5	\$ 25,332	34.5	67%	130.8	8.4	8%	1,222.2
Preble	6.1	15%	99.2	\$ 23,374	6.1	21%	68.5	-	0%	1,875.0
Putnam	33.1	98%	70.3	\$ 25,481	28.0	98%	60.1	5.2	98%	1,059.7
Richland	119.1	97%	247.1	\$ 21,932	36.6	94%	88.8	82.5	99%	1,502.9
Ross	14.0	18%	115.4	\$ 21,310	14.0	30%	68.9	-	0%	1,926.8
Sandusky	24.8	41%	147.8	\$ 22,799	6.6	25%	68.0	18.2	54%	1,790.4
Scioto	18.3	23%	130.7	\$ 19,437	18.3	42%	73.8	-	0%	1,929.9
Seneca	14.4	26%	101.3	\$ 22,075	14.4	56%	48.0	-	0%	2,626.8
Shelby	6.3	13%	122.2	\$ 24,028	6.3	25%	63.3	-	0%	1,793.3
Stark	130.5	35%	650.8	\$ 24,453	28.2	57%	129.5	102.3	32%	1,689.9
Summit	1.5	0%	1,309.2	\$ 27,818	0.4	2%	171.0	1.0	0%	1,779.3
Trumbull	102.7	50%	330.8	\$ 22,568	42.4	76%	109.2	60.3	40%	1,380.4
Tuscarawas	89.3	97%	163.0	\$ 21,966	35.1	92%	70.7	54.3	100%	1,924.3
Union	12.8	23%	129.4	\$ 28,852	12.8	49%	62.8	-	0%	2,276.6
Van Wert	14.0	50%	69.1	\$ 22,790	10.6	75%	35.2	3.4	24%	1,731.8
Vinton	8.7	64%	32.8	\$ 18,101	8.7	64%	32.8	-	-	-
Warren	7.2	3%	572.3	\$ 33,172	7.2	19%	128.0	0.0	0%	1,721.7
Washington	31.5	51%	96.9	\$ 23,496	19.4	55%	57.9	12.1	47%	1,409.4
Wayne	76.3	66%	208.4	\$ 23,061	44.9	76%	114.1	31.4	55%	1,511.4
Williams	10.1	27%	87.6	\$ 21,350	10.1	44%	56.4	-	0%	1,634.4
Wood	8.9	7%	205.6	\$ 26,326	8.9	24%	66.2	0.0	0%	1,473.4
Wyandot	21.6	97%	55.0	\$ 22,382	12.3	96%	31.9	9.3	98%	2,111.4
<b>Oklahoma</b>	<b>1,882.3</b>	<b>49%</b>	<b>56.2</b>		<b>1,144.6</b>	<b>89%</b>	<b>19.2</b>	<b>737.6</b>	<b>29%</b>	<b>1,961.7</b>
Adair	23.0	100%	40.1	\$ 15,116	19.1	100%	33.4	3.9	100%	1,674.2
Alfalfa	4.7	86%	6.3	\$ 22,488	4.7	86%	6.3	-	-	-

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Atoka	14.3	100%	14.7	\$ 17,842	14.3	100%	14.7			
Beaver	1.9	35%	3.0	\$ 26,109	1.9	35%	3.0			
Beckham	22.6	100%	25.2	\$ 23,959	7.5	100%	8.4	15.1	99%	1,935.4
Blaine	11.9	100%	12.8	\$ 20,242	6.8	100%	7.3	5.1	100%	2,421.7
Bryan	44.4	100%	49.2	\$ 20,524	27.3	100%	30.6	17.1	100%	1,690.7
Caddo	27.2	94%	22.7	\$ 17,858	21.4	92%	18.2	5.8	100%	2,383.8
Canadian	19.7	16%	140.3	\$ 27,552	19.6	69%	33.5	0.1	0%	1,914.3
Carter	47.8	99%	58.7	\$ 21,476	27.3	100%	33.7	20.5	98%	1,792.4
Cherokee	48.3	100%	64.4	\$ 18,582	29.1	100%	39.4	19.2	100%	1,553.5
Choctaw	14.9	100%	19.4	\$ 17,739	10.0	100%	13.1	4.9	100%	1,493.1
Cimarron	0.2	13%	0.9	\$ 23,514	0.2	13%	0.9			
Cleveland	47.3	17%	506.7	\$ 26,920	38.8	87%	98.5	8.4	4%	2,609.7
Coal	5.8	100%	11.3	\$ 19,752	5.8	100%	11.3			
Comanche	126.3	98%	120.9	\$ 22,363	25.9	90%	28.1	100.5	100%	2,202.8
Cotton	6.0	100%	9.4	\$ 21,452	3.6	100%	5.6	2.4	100%	1,879.9
Craig	14.9	100%	19.6	\$ 19,820	9.0	100%	11.9	5.9	100%	1,644.6
Creek	39.6	56%	74.3	\$ 22,327	31.8	84%	41.2	7.9	24%	1,143.1
Custer	28.0	100%	28.3	\$ 23,261	8.6	100%	8.7	19.4	100%	2,653.3
Delaware	39.8	93%	57.8	\$ 21,109	32.3	93%	47.4	7.5	92%	844.9
Dewey	4.7	100%	4.7	\$ 24,860	4.7	100%	4.7			
Ellis	4.1	100%	3.3	\$ 27,183	4.1	100%	3.3			
Garfield	46.1	75%	58.3	\$ 24,177	12.1	91%	12.9	34.0	70%	2,015.6
Garvin	27.6	100%	34.4	\$ 21,285	19.0	100%	23.9	8.5	100%	1,640.4
Grady	52.1	95%	49.7	\$ 23,500	35.8	100%	33.1	16.4	87%	1,268.7
Grant	4.0	93%	4.3	\$ 27,469	4.0	93%	4.3			
Greer	6.2	100%	9.8	\$ 17,969	3.4	100%	5.3	2.9	100%	2,015.6
Harmon	2.8	100%	5.1	\$ 18,582	2.8	100%	5.1			
Harper	2.2	60%	3.6	\$ 22,675	2.2	60%	3.6			
Haskell	6.4	49%	22.5	\$ 18,896	6.2	61%	17.7	0.2	7%	1,207.0
Hughes	13.7	100%	17.1	\$ 18,268	8.0	100%	10.0	5.7	100%	1,746.0
Jackson	25.5	100%	31.8	\$ 22,925	6.6	100%	8.4	18.9	100%	1,557.7
Jefferson	6.3	100%	8.3	\$ 19,042	6.3	100%	8.3			
Johnston	11.0	100%	17.1	\$ 19,967	11.0	100%	17.1			
Kay	45.0	98%	50.0	\$ 22,207	10.7	95%	12.5	34.3	99%	1,538.8
Kingfisher	15.4	100%	17.1	\$ 25,773	11.2	100%	12.5	4.1	100%	1,901.8
Kiowa	9.0	100%	8.8	\$ 23,576	5.5	100%	5.4	3.4	100%	1,983.0
Latimer	8.0	71%	15.6	\$ 22,603	5.9	71%	11.5	2.1	72%	1,232.0
Le Flore	41.0	81%	32.0	\$ 18,141	29.8	81%	23.4	11.1	81%	1,386.0
Lincoln	33.5	97%	36.5	\$ 21,888	31.1	97%	33.7	2.5	91%	1,111.8
Logan	15.8	35%	60.0	\$ 25,620	14.8	62%	33.1	1.0	5%	897.2
Love	9.6	100%	18.7	\$ 19,910	9.6	100%	18.7			
McClain	37.0	100%	64.9	\$ 25,293	28.7	100%	50.8	8.3	100%	1,440.6
McCurtain	27.7	85%	17.6	\$ 17,615	21.7	97%	12.2	6.0	59%	1,285.7
McIntosh	15.8	78%	32.9	\$ 19,100	15.8	89%	28.8	-	0%	1,999.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Major	7.4	100%	7.7	\$ 27,168	7.4	100%	7.7			
Marshall	16.7	100%	45.1	\$ 19,583	12.1	100%	32.8	4.6	100%	1,970.8
Mayes	42.1	100%	64.3	\$ 20,585	32.9	100%	50.6	9.2	100%	1,676.3
Murray	13.7	100%	32.8	\$ 21,870	6.3	100%	15.3	7.4	100%	1,390.3
Muskogee	57.0	80%	87.7	\$ 19,868	23.1	79%	37.3	34.0	81%	1,508.5
Noble	11.6	100%	15.8	\$ 21,947	6.6	100%	9.1	4.9	100%	1,857.0
Nowata	10.4	100%	18.4	\$ 19,256	6.1	100%	10.8	4.3	100%	1,468.7
Okfuskee	12.1	100%	19.6	\$ 16,528	8.9	100%	14.5	3.2	100%	2,046.3
Oklahoma	25.2	3%	1,049.7	\$ 26,561	22.3	47%	120.8	2.9	0%	2,229.0
Okmulgee	37.5	94%	57.0	\$ 19,753	18.9	97%	28.5	18.7	92%	1,436.5
Osage	40.0	83%	21.3	\$ 22,353	27.0	95%	12.8	13.0	67%	1,505.3
Ottawa	31.6	100%	67.2	\$ 18,331	15.7	100%	33.9	15.9	100%	1,981.8
Pawnee	16.4	100%	28.8	\$ 21,220	13.4	100%	23.7	2.9	100%	1,892.4
Payne	57.5	72%	117.1	\$ 20,868	24.1	89%	40.9	33.5	63%	2,155.0
Pittsburg	25.5	55%	35.6	\$ 21,966	15.0	62%	18.8	10.5	47%	1,811.2
Pontotoc	38.3	100%	53.3	\$ 22,381	20.6	100%	29.1	17.7	100%	1,485.5
Pottawatomie	70.0	99%	89.6	\$ 20,937	35.6	98%	47.3	34.3	100%	1,546.7
Pushmataha	11.4	99%	8.2	\$ 18,542	11.4	99%	8.2			
Roger Mills	3.7	100%	3.3	\$ 27,326	3.7	100%	3.3			
Rogers	47.0	51%	136.2	\$ 27,365	40.3	89%	71.5	6.7	14%	1,086.5
Seminole	25.4	100%	40.3	\$ 18,321	16.4	100%	26.3	9.0	100%	1,798.6
Sequoyah	22.3	52%	64.1	\$ 18,131	22.2	77%	43.8	0.1	1%	1,445.2
Stephens	45.7	100%	52.5	\$ 23,038	20.3	100%	23.7	25.4	100%	1,871.7
Texas	3.1	15%	10.1	\$ 22,064	2.3	24%	4.5	0.8	7%	2,373.8
Tillman	7.4	100%	8.5	\$ 18,035	3.8	100%	4.4	3.6	100%	1,616.3
Tulsa	26.4	4%	1,087.5	\$ 27,676	17.1	57%	96.1	9.3	2%	2,264.1
Wagoner	29.6	38%	139.7	\$ 24,874	22.7	79%	54.8	6.8	14%	1,449.1
Washington	48.7	94%	124.7	\$ 27,053	12.5	100%	31.8	36.2	92%	1,677.8
Washita	11.6	100%	11.5	\$ 23,811	8.8	100%	8.8	2.8	100%	1,563.3
Woods	7.2	99%	5.6	\$ 26,022	1.8	100%	1.4	5.3	99%	2,053.5
Woodward	20.7	100%	16.7	\$ 24,922	9.2	99%	7.5	11.5	100%	1,368.5
<b>Oregon</b>	<b>276.3</b>	<b>7%</b>	<b>41.2</b>		<b>247.7</b>	<b>34%</b>	<b>7.7</b>	<b>28.6</b>	<b>1%</b>	<b>2,916.4</b>
Baker	4.7	30%	5.1	\$ 23,234	4.6	73%	2.1	0.0	0%	1,856.4
Benton	1.3	2%	129.0	\$ 26,738	1.3	8%	24.5	-	0%	2,746.2
Clackamas	9.0	2%	206.3	\$ 32,781	8.4	13%	38.4	0.5	0%	2,496.7
Clatsop	6.5	16%	47.9	\$ 25,680	6.5	42%	18.9	-	0%	1,693.1
Columbia	10.7	21%	77.5	\$ 26,271	10.2	47%	33.6	0.5	2%	1,964.3
Coos	8.7	14%	39.8	\$ 22,239	8.7	35%	15.7	-	0%	1,743.2
Crook	8.0	37%	7.2	\$ 20,883	8.0	77%	3.5	-	0%	1,745.4
Curry	1.8	8%	14.5	\$ 23,972	1.8	20%	5.7	-	0%	1,582.6
Deschutes	9.5	6%	56.9	\$ 27,524	9.2	20%	15.3	0.4	0%	2,216.0
Douglas	20.1	18%	21.6	\$ 21,870	20.1	45%	8.9	-	0%	2,123.2
Gilliam	1.8	100%	1.5	\$ 25,320	1.8	100%	1.5			

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Grant	4.9	68%	1.6	\$ 23,828	4.9	68%	1.6			
Harney	4.5	62%	0.7	\$ 20,865	2.8	86%	0.3	1.7	42%	1,594.7
Hood River	8.6	38%	43.9	\$ 25,181	8.6	73%	23.0	-	0%	1,541.0
Jackson	19.5	9%	75.1	\$ 24,378	19.4	48%	14.9	0.1	0%	2,374.3
Jefferson	7.0	31%	12.6	\$ 21,593	6.9	49%	8.0	0.0	0%	1,551.6
Josephine	17.4	21%	51.4	\$ 21,791	17.4	47%	23.1	-	0%	2,003.2
Klamath	10.8	16%	11.2	\$ 21,489	10.8	43%	4.2	-	0%	1,895.2
Lake	2.7	34%	1.0	\$ 22,056	2.7	51%	0.6	-	0%	2,092.0
Lane	40.5	11%	78.8	\$ 24,224	23.7	39%	13.7	16.8	6%	2,693.6
Lincoln	2.8	6%	50.7	\$ 25,194	2.8	16%	18.4	-	0%	1,589.6
Linn	4.4	4%	52.9	\$ 21,500	4.1	11%	16.5	0.3	0%	2,324.6
Malheur	15.4	50%	3.1	\$ 16,352	11.7	78%	1.5	3.8	23%	1,936.3
Marion	5.6	2%	274.6	\$ 22,001	4.7	11%	37.2	0.9	0%	3,134.3
Morrow	3.0	27%	5.5	\$ 20,663	2.7	55%	2.4	0.2	4%	1,338.3
Multnomah	0.5	0%	1,759.7	\$ 30,475	0.5	5%	36.7	0.0	0%	4,557.9
Polk	3.4	4%	108.2	\$ 24,426	3.4	22%	21.2	-	0%	3,480.8
Sherman	1.7	100%	2.0	\$ 24,314	1.7	100%	2.0			
Tillamook	5.8	22%	23.8	\$ 22,452	5.7	31%	16.9	0.1	2%	1,766.0
Umatilla	10.8	14%	24.0	\$ 20,836	8.3	38%	6.9	2.5	4%	1,829.3
Union	7.6	29%	12.7	\$ 22,684	7.6	71%	5.3	-	0%	2,500.0
Wallowa	4.7	69%	2.2	\$ 23,131	4.7	69%	2.2			
Wasco	6.1	24%	10.7	\$ 22,844	6.1	73%	3.5	-	0%	1,800.3
Washington	2.3	0%	767.4	\$ 31,078	2.3	8%	49.9	0.0	0%	4,170.7
Wheeler	1.4	100%	0.8	\$ 24,575	1.4	100%	0.8			
Yamhill	2.9	3%	144.5	\$ 24,290	2.3	10%	32.9	0.6	1%	2,580.4
<b>Pennsylvania</b>	<b>1,695.4</b>	<b>13%</b>	<b>287.0</b>		<b>978.6</b>	<b>36%</b>	<b>68.2</b>	<b>716.7</b>	<b>7%</b>	<b>2,148.9</b>
Adams	9.4	9%	201.4	\$ 27,284	7.8	14%	114.0	1.6	3%	1,548.2
Allegheny	12.0	1%	1,651.5	\$ 31,593	0.9	3%	149.3	11.2	1%	2,234.9
Armstrong	18.2	27%	103.7	\$ 23,661	15.7	34%	71.5	2.6	12%	1,936.6
Beaver	4.2	3%	383.9	\$ 26,258	2.9	7%	125.7	1.3	1%	1,357.1
Bedford	22.2	45%	48.9	\$ 22,259	21.7	52%	41.3	0.5	6%	1,465.3
Berks	95.2	22%	494.5	\$ 26,723	38.1	39%	137.5	57.1	18%	2,348.7
Blair	35.9	28%	240.5	\$ 23,875	16.8	54%	65.0	19.1	20%	1,889.1
Bradford	33.3	53%	54.4	\$ 23,667	28.9	64%	39.6	4.4	26%	1,778.3
Bucks	12.3	2%	1,049.1	\$ 37,466	10.1	18%	173.8	2.3	0%	2,018.9
Butler	3.2	2%	237.1	\$ 30,957	3.2	4%	109.4	0.0	0%	1,289.9
Cambria	5.8	4%	203.7	\$ 22,659	3.4	8%	70.7	2.4	3%	1,516.6
Cameron	4.8	100%	12.0	\$ 22,747	2.3	100%	5.8	2.5	100%	1,808.5
Carbon	4.5	7%	176.6	\$ 24,861	2.5	8%	88.4	2.0	6%	1,664.0
Centre	40.0	25%	144.0	\$ 25,545	26.3	51%	48.3	13.7	13%	2,698.1
Chester	3.1	1%	692.3	\$ 42,210	2.0	3%	170.6	1.1	0%	1,288.7
Clarion	19.1	49%	65.1	\$ 21,902	17.5	59%	50.2	1.6	17%	1,393.2
Clearfield	43.6	54%	70.4	\$ 21,273	25.0	57%	38.8	18.6	50%	1,618.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Clinton	6.9	17%	44.5	\$ 21,875	5.5	31%	20.5	1.3	6%	1,457.7
Columbia	45.8	67%	140.8	\$ 23,681	19.1	68%	61.4	26.7	67%	1,584.9
Crawford	27.5	31%	86.9	\$ 21,741	24.8	45%	56.0	2.7	8%	1,481.0
Cumberland	22.2	9%	445.4	\$ 31,791	14.7	28%	119.6	7.5	4%	1,903.5
Dauphin	8.2	3%	520.6	\$ 29,234	4.8	13%	89.9	3.4	1%	1,906.0
Delaware	0.1	0%	3,056.9	\$ 33,179	-	0%	178.9	0.1	0%	3,316.2
Elk	23.7	77%	37.3	\$ 23,738	14.9	86%	21.1	8.9	65%	1,369.2
Erie	27.5	10%	351.3	\$ 24,189	23.3	42%	79.5	4.2	2%	2,327.0
Fayette	87.6	66%	168.0	\$ 20,884	41.1	64%	86.6	46.5	68%	1,307.7
Forest	3.0	35%	20.0	\$ 13,646	3.0	35%	20.0			
Franklin	21.7	14%	203.7	\$ 25,741	18.2	29%	89.3	3.5	4%	1,453.8
Fulton	10.8	72%	34.5	\$ 23,201	10.8	72%	34.5			
Greene	28.3	75%	65.8	\$ 21,819	22.0	87%	44.5	6.3	50%	1,789.7
Huntingdon	26.6	58%	52.3	\$ 20,739	25.4	79%	36.8	1.2	9%	2,412.1
Indiana	20.7	24%	106.6	\$ 22,933	18.8	36%	64.1	1.9	5%	2,109.3
Jefferson	12.8	28%	68.7	\$ 21,300	10.2	37%	43.7	2.5	15%	1,412.2
Juniata	1.6	6%	64.3	\$ 21,628	1.6	8%	53.1	-	0%	1,054.4
Lackawanna	35.2	16%	468.2	\$ 25,594	15.0	41%	94.9	20.2	11%	2,355.1
Lancaster	17.9	3%	569.4	\$ 26,496	12.1	11%	164.4	5.8	1%	1,653.4
Lawrence	3.8	4%	250.4	\$ 22,906	3.5	10%	113.8	0.3	1%	1,559.8
Lebanon	9.3	7%	382.1	\$ 27,074	4.9	13%	122.6	4.3	4%	1,801.1
Lehigh	53.0	15%	1,048.1	\$ 27,923	13.8	48%	154.7	39.2	12%	2,078.9
Luzerne	115.4	36%	360.5	\$ 24,793	25.4	38%	86.6	90.0	35%	2,009.8
Lycoming	19.6	17%	93.0	\$ 22,987	17.9	44%	34.4	1.7	2%	1,894.7
McKean	30.8	72%	43.4	\$ 22,426	19.0	71%	27.6	11.7	75%	2,361.3
Mercer	79.3	69%	171.0	\$ 22,831	31.3	61%	81.0	47.9	75%	1,571.9
Mifflin	6.7	14%	113.7	\$ 20,794	6.7	28%	60.3	-	0%	1,479.9
Monroe	10.5	6%	293.8	\$ 25,494	10.5	16%	132.3	0.0	0%	1,063.7
Montgomery	0.3	0%	1,686.6	\$ 41,472	0.1	0%	223.4	0.2	0%	2,111.2
Montour	17.4	96%	139.6	\$ 29,600	9.2	93%	78.4	8.2	99%	1,947.4
Northampton	18.2	6%	832.0	\$ 29,266	12.5	32%	167.8	5.7	2%	1,935.3
Northumberland	89.3	95%	204.6	\$ 22,478	28.6	87%	75.7	60.7	100%	2,458.3
Perry	9.1	19%	84.9	\$ 26,048	8.9	21%	75.7	0.2	4%	2,036.1
Philadelphia	0.4	0%	11,463.9	\$ 22,279	-		-	0.4	0%	11,464.0
Pike	6.1	10%	111.6	\$ 27,691	6.1	14%	81.1	-	0%	986.2
Potter	13.0	79%	15.2	\$ 22,564	13.0	79%	15.2			
Schuylkill	74.2	50%	190.4	\$ 23,021	28.4	53%	74.2	45.8	49%	1,797.9
Snyder	25.0	62%	122.0	\$ 23,088	11.8	44%	84.4	13.2	99%	1,187.0
Somerset	60.8	79%	71.3	\$ 22,192	41.3	77%	50.5	19.5	85%	1,546.2
Sullivan	4.0	64%	14.0	\$ 22,923	4.0	64%	14.0			
Susquehanna	34.3	79%	52.7	\$ 24,477	27.7	75%	44.7	6.6	99%	1,786.7
Tioga	12.2	29%	37.0	\$ 22,621	11.6	31%	33.4	0.6	15%	2,055.8
Union	44.5	97%	145.3	\$ 22,259	18.8	99%	63.3	25.7	95%	1,652.0
Venango	24.0	44%	80.3	\$ 22,060	14.4	48%	45.1	9.7	39%	1,587.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Warren	29.0	71%	46.2	\$ 24,179	17.2	75%	26.2	11.9	66%	1,599.1
Washington	37.5	18%	244.2	\$ 28,433	27.2	43%	83.7	10.3	7%	1,443.8
Wayne	26.7	49%	75.2	\$ 24,005	26.2	54%	67.2	0.5	8%	1,370.5
Westmoreland	20.2	6%	353.3	\$ 28,051	11.9	13%	110.7	8.4	3%	1,463.5
Wyoming	6.5	23%	71.1	\$ 24,195	6.4	27%	60.1	0.1	3%	1,090.2
York	18.9	4%	502.1	\$ 28,132	9.9	9%	159.1	9.0	3%	1,683.3
<b>Rhode Island</b>	<b>6.6</b>	<b>1%</b>	<b>1,017.3</b>		<b>6.4</b>	<b>6%</b>	<b>155.5</b>	<b>0.2</b>	<b>0%</b>	<b>2,379.3</b>
Bristol	-	0%	2,035.9	\$ 38,893	-	0%	188.0	-	0%	2,282.0
Kent	0.5	0%	975.9	\$ 33,814	0.5	4%	139.2	-	0%	2,092.6
Newport	1.3	2%	818.2	\$ 40,293	1.3	13%	178.6	-	0%	1,617.0
Providence	1.3	0%	1,525.5	\$ 26,308	1.3	4%	148.0	-	0%	3,352.3
Washington	3.4	3%	393.5	\$ 37,023	3.3	8%	163.3	0.2	0%	1,049.3
<b>South Carolina</b>	<b>1,085.5</b>	<b>23%</b>	<b>160.1</b>		<b>698.0</b>	<b>44%</b>	<b>57.2</b>	<b>387.4</b>	<b>12%</b>	<b>1,356.0</b>
Abbeville	4.2	17%	50.5	\$ 18,134	4.1	21%	40.4	0.1	3%	1,112.0
Aiken	108.4	66%	154.0	\$ 24,769	48.6	79%	62.4	59.7	58%	1,204.8
Allendale	8.2	82%	24.3	\$ 13,334	5.0	74%	16.8	3.1	100%	1,354.5
Anderson	9.8	5%	269.4	\$ 22,081	7.2	10%	124.3	2.6	2%	952.3
Bamberg	14.5	93%	39.3	\$ 18,902	7.5	88%	21.9	7.0	100%	1,263.8
Barnwell	22.4	100%	40.9	\$ 18,862	18.5	100%	34.0	3.9	100%	1,064.4
Beaufort	8.2	5%	305.2	\$ 32,503	7.2	22%	73.0	1.0	1%	1,167.4
Berkeley	31.4	16%	173.6	\$ 24,165	22.0	41%	51.6	9.4	7%	2,156.1
Calhoun	11.5	77%	39.0	\$ 23,023	11.5	77%	39.0			
Charleston	21.1	6%	396.6	\$ 30,158	11.5	29%	53.6	9.6	3%	1,826.8
Cherokee	6.4	12%	141.8	\$ 18,240	6.4	19%	90.6	-	0%	1,126.2
Chester	32.2	99%	55.8	\$ 18,098	23.5	99%	41.2	8.7	99%	1,266.5
Chesterfield	31.4	67%	59.0	\$ 17,140	27.4	78%	44.7	4.0	34%	1,040.8
Clarendon	2.1	6%	58.7	\$ 17,665	2.1	7%	50.6	-	0%	1,256.1
Colleton	20.2	52%	36.7	\$ 18,769	20.1	68%	28.1	0.1	1%	1,091.1
Darlington	10.0	15%	121.4	\$ 20,105	10.0	25%	73.6	-	0%	1,129.4
Dillon	8.0	25%	78.9	\$ 14,988	8.0	36%	56.0	-	0%	1,348.5
Dorchester	16.1	11%	262.3	\$ 24,495	16.1	58%	53.7	0.0	0%	2,334.8
Edgefield	17.8	65%	54.7	\$ 20,753	13.1	65%	40.7	4.7	64%	1,092.2
Fairfield	16.8	71%	34.5	\$ 20,257	16.1	86%	27.5	0.7	14%	1,260.4
Florence	8.7	6%	174.2	\$ 22,432	8.7	16%	72.3	-	0%	1,325.3
Georgetown	7.6	12%	76.3	\$ 24,437	7.6	31%	32.1	-	0%	1,130.5
Greenville	5.7	1%	604.6	\$ 26,643	5.7	10%	115.2	-	0%	1,543.8
Greenwood	69.8	100%	153.7	\$ 21,053	27.5	100%	65.7	42.3	100%	1,214.7
Hampton	12.7	61%	37.0	\$ 19,332	12.4	77%	29.1	0.3	7%	812.8
Horry	7.7	3%	260.3	\$ 24,002	7.7	9%	88.8	-	0%	1,342.0
Jasper	11.2	43%	39.7	\$ 17,350	11.0	63%	26.8	0.2	2%	1,036.6
Kershaw	38.3	60%	88.5	\$ 22,638	26.5	72%	52.8	11.8	43%	888.8
Lancaster	57.6	71%	148.5	\$ 21,003	33.8	85%	77.4	23.8	57%	1,116.9
Laurens	17.0	26%	91.1	\$ 19,153	17.0	41%	59.9	0.0	0%	1,253.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Lee	2.3	12%	45.7	\$ 14,740	2.3	17%	32.5	-	0%	2,382.0
Lexington	34.1	12%	399.1	\$ 26,886	31.4	44%	137.3	2.7	1%	1,142.9
McCormick	0.8	8%	28.2	\$ 22,150	0.8	8%	28.2			
Marion	10.0	31%	65.0	\$ 16,531	10.0	52%	40.4	-	0%	1,485.0
Marlboro	27.9	97%	59.8	\$ 14,577	15.4	98%	33.5	12.4	97%	1,535.7
Newberry	15.2	41%	59.6	\$ 21,591	15.0	59%	41.1	0.2	2%	1,316.3
Oconee	61.1	80%	121.3	\$ 23,904	36.6	74%	82.8	24.5	91%	810.0
Orangeburg	38.6	42%	82.5	\$ 17,687	38.6	66%	54.1	-	0%	1,045.4
Pickens	40.8	34%	244.3	\$ 21,182	9.7	23%	101.0	31.1	40%	1,096.0
Richland	11.7	3%	535.0	\$ 25,763	11.2	32%	62.0	0.5	0%	1,910.3
Saluda	17.8	90%	43.5	\$ 19,725	14.2	90%	35.2	3.5	91%	1,584.4
Spartanburg	14.1	5%	363.0	\$ 21,889	13.7	17%	134.4	0.4	0%	981.9
Sumter	4.7	4%	160.9	\$ 20,340	4.7	14%	56.5	-	0%	1,113.5
Union	6.1	22%	54.8	\$ 19,037	6.1	34%	36.3	-	0%	1,057.4
Williamsburg	5.8	18%	34.9	\$ 14,845	5.8	22%	28.6	-	0%	1,061.7
York	157.5	64%	363.2	\$ 26,553	38.5	70%	102.5	119.0	62%	1,319.5
<b>South Dakota</b>	<b>160.3</b>	<b>19%</b>	<b>11.0</b>		<b>157.4</b>	<b>45%</b>	<b>4.6</b>	<b>2.9</b>	<b>1%</b>	<b>2,160.9</b>
Aurora	1.4	53%	3.7	\$ 23,504	1.4	53%	3.7			
Beadle	2.9	17%	13.9	\$ 24,025	2.9	64%	3.7	0.0	0%	1,798.4
Bennett	0.8	25%	2.8	\$ 16,275	0.8	25%	2.8			
Bon Homme	2.4	34%	12.5	\$ 20,941	2.4	34%	12.5			
Brookings	1.4	4%	42.2	\$ 23,105	1.4	15%	12.1	-	0%	2,527.7
Brown	4.8	13%	21.6	\$ 27,138	4.8	45%	6.3	-	0%	2,068.1
Brule	5.3	100%	6.4	\$ 21,928	5.3	100%	6.4			
Buffalo	1.9	100%	4.0	\$ 11,405	1.9	100%	4.0			
Butte	3.8	36%	4.7	\$ 21,744	3.8	75%	2.2	-	0%	2,093.0
Campbell	0.3	25%	1.8	\$ 24,152	0.3	25%	1.8			
Charles Mix	8.4	98%	7.8	\$ 19,030	8.4	98%	7.8			
Clark	2.1	61%	3.7	\$ 27,878	2.1	61%	3.7			
Clay	2.0	14%	34.0	\$ 20,595	2.0	60%	8.1	-	0%	3,092.8
Codington	3.6	13%	40.4	\$ 25,582	3.6	58%	9.2	-	0%	1,619.8
Corson	4.0	99%	1.6	\$ 14,262	4.0	99%	1.6			
Custer	4.1	48%	5.4	\$ 28,356	4.1	48%	5.4			
Davison	2.2	11%	45.6	\$ 24,597	2.2	48%	10.8	-	0%	2,226.0
Day	2.1	40%	5.3	\$ 23,126	2.1	40%	5.3			
Deuel	1.0	24%	6.8	\$ 27,525	1.0	24%	6.8			
Dewey	4.9	98%	2.2	\$ 15,558	3.0	96%	1.4	1.9	100%	2,810.8
Douglas	0.6	24%	6.0	\$ 28,323	0.6	24%	6.0			
Edmunds	0.7	17%	3.5	\$ 25,775	0.7	17%	3.5			
Fall River	1.2	17%	4.0	\$ 23,624	1.2	34%	2.0	-	0%	1,633.6
Faulk	0.7	29%	2.3	\$ 23,069	0.7	29%	2.3			
Grant	2.6	37%	10.5	\$ 24,554	2.6	67%	5.8	-	0%	1,519.4
Gregory	0.5	12%	4.0	\$ 23,041	0.5	12%	4.0			



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Haakon	0.6	31%	1.0	\$ 25,754	0.6	31%	1.0			
Hamlin	3.7	62%	11.9	\$ 25,233	3.7	62%	11.9			
Hand	1.3	40%	2.3	\$ 26,027	1.3	40%	2.3			
Hanson	1.1	31%	7.7	\$ 23,197	1.1	31%	7.7			
Harding	0.9	79%	0.5	\$ 22,247	0.9	79%	0.5			
Hughes	2.8	16%	23.3	\$ 30,284	2.7	60%	6.2	0.0	0%	1,347.3
Hutchinson	3.4	49%	8.6	\$ 26,110	3.4	49%	8.6			
Hyde	1.0	95%	1.2	\$ 26,195	1.0	95%	1.2			
Jackson	0.8	26%	1.6	\$ 20,319	0.8	26%	1.6			
Jerauld	1.7	100%	3.2	\$ 26,590	1.7	100%	3.2			
Jones	0.1	15%	0.9	\$ 23,377	0.1	15%	0.9			
Kingsbury	1.7	35%	5.9	\$ 27,485	1.7	35%	5.9			
Lake	0.8	7%	20.0	\$ 27,015	0.8	15%	9.2	-	0%	2,164.3
Lawrence	4.5	18%	31.4	\$ 27,498	4.5	49%	11.7	-	0%	1,926.3
Lincoln	3.6	7%	91.1	\$ 34,839	3.6	29%	22.3	-	0%	2,672.4
Lyman	2.2	61%	2.2	\$ 20,586	2.2	61%	2.2			
McCook	0.2	4%	9.5	\$ 26,505	0.2	4%	9.5			
McPherson	0.6	27%	2.0	\$ 22,596	0.6	27%	2.0			
Marshall	3.6	85%	5.0	\$ 24,205	3.6	85%	5.0			
Meade	6.3	24%	7.5	\$ 25,375	6.3	63%	2.9	-	0%	1,499.9
Mellette	0.3	14%	1.5	\$ 15,760	0.3	14%	1.5			
Miner	0.2	10%	3.8	\$ 31,288	0.2	10%	3.8			
Minnehaha	1.2	1%	222.2	\$ 26,380	1.1	5%	32.3	0.0	0%	2,679.3
Moody	1.5	23%	12.3	\$ 27,682	1.5	23%	12.3			
Pennington	9.6	9%	38.2	\$ 27,000	9.6	45%	7.8	0.0	0%	1,949.1
Perkins	2.8	98%	1.0	\$ 25,751	2.8	98%	1.0			
Potter	2.2	100%	2.5	\$ 26,180	2.2	100%	2.5			
Roberts	9.8	98%	9.1	\$ 22,670	9.8	98%	9.1			
Sanborn	1.8	83%	3.9	\$ 25,823	1.8	83%	3.9			
Shannon	3.5	25%	6.7	\$ 8,768	3.5	31%	5.2	-	0%	2,688.9
Spink	3.0	49%	4.0	\$ 27,757	3.0	49%	4.0			
Stanley	0.4	13%	2.1	\$ 30,933	0.4	36%	0.7	-	0%	1,074.6
Sully	1.3	100%	1.3	\$ 30,218	1.3	100%	1.3			
Todd	2.6	27%	7.1	\$ 10,575	2.6	27%	7.1			
Tripp	0.4	7%	3.3	\$ 23,270	0.4	15%	1.6	-	0%	1,590.9
Turner	2.3	29%	13.2	\$ 25,406	2.3	29%	13.2			
Union	4.3	29%	32.8	\$ 36,167	4.3	48%	19.5	0.0	1%	1,102.6
Walworth	0.6	12%	7.4	\$ 25,915	0.6	34%	2.6	-	0%	1,982.7
Yankton	3.0	13%	43.8	\$ 27,268	3.0	41%	14.3	-	0%	2,808.0
Ziebach	2.9	100%	1.5	\$ 12,339	2.1	99%	1.1	0.8	100%	1,149.2
<b>Tennessee</b>	<b>1,148.4</b>	<b>18%</b>	<b>158.8</b>		<b>988.9</b>	<b>45%</b>	<b>56.8</b>	<b>159.5</b>	<b>4%</b>	<b>1,504.0</b>
Anderson	5.1	7%	226.6	\$ 24,561	3.8	14%	89.3	1.3	3%	1,125.5
Bedford	14.0	29%	100.4	\$ 19,303	14.0	53%	56.9	-	0%	1,585.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Benton	10.5	64%	41.4	\$ 18,456	10.5	82%	32.8	-	0%	868.1
Bledsoe	12.9	100%	31.9	\$ 15,747	12.9	100%	31.9			
Blount	6.8	5%	230.3	\$ 23,788	6.0	14%	90.3	0.8	1%	969.2
Bradley	3.8	4%	311.1	\$ 21,649	3.8	11%	122.0	-	0%	1,287.1
Campbell	11.4	28%	84.9	\$ 16,812	11.1	49%	48.8	0.3	2%	925.0
Cannon	9.2	65%	53.2	\$ 20,566	9.2	80%	43.5	0.0	0%	1,817.3
Carroll	9.3	33%	46.8	\$ 18,330	9.3	40%	38.9	-	0%	1,317.9
Carter	8.7	15%	168.1	\$ 19,018	8.7	37%	76.3	0.0	0%	976.8
Cheatham	4.5	11%	130.6	\$ 23,459	4.5	14%	109.9	0.0	0%	961.9
Chester	9.3	53%	61.4	\$ 18,817	9.3	81%	40.8	-	0%	1,319.7
Claiborne	32.2	98%	75.5	\$ 18,583	22.9	98%	55.2	9.3	100%	940.9
Clay	5.5	71%	32.9	\$ 16,867	5.5	71%	32.9			
Cocke	14.0	39%	83.4	\$ 17,476	13.9	57%	57.8	0.1	1%	1,189.9
Coffee	7.0	13%	127.6	\$ 20,357	7.0	27%	63.8	-	0%	1,269.5
Crockett	6.2	43%	54.5	\$ 18,664	6.2	64%	36.9	-	0%	1,189.8
Cumberland	25.1	43%	86.3	\$ 21,141	24.8	70%	54.1	0.3	1%	853.9
Davidson	17.6	3%	1,281.8	\$ 28,467	4.5	21%	104.9	13.1	2%	2,117.7
Decatur	5.9	51%	34.8	\$ 25,368	5.9	51%	34.8			
DeKalb	7.5	39%	62.6	\$ 21,606	7.5	50%	49.4	0.0	0%	1,306.3
Dickson	14.0	28%	104.0	\$ 21,547	13.8	40%	72.7	0.2	1%	966.0
Dyer	19.2	50%	75.0	\$ 21,208	11.5	70%	33.1	7.8	35%	1,341.8
Fayette	10.6	25%	58.8	\$ 28,201	10.3	32%	45.7	0.3	3%	1,142.1
Fentress	10.7	58%	36.8	\$ 16,454	10.7	58%	36.8			
Franklin	11.6	29%	73.1	\$ 22,398	11.2	40%	52.1	0.3	2%	753.6
Gibson	20.2	40%	83.7	\$ 20,402	13.2	54%	41.7	7.0	27%	1,510.3
Giles	15.7	54%	47.9	\$ 19,998	15.7	73%	35.7	-	0%	1,452.6
Grainger	9.1	39%	82.8	\$ 17,933	9.1	39%	82.8			
Greene	65.9	94%	112.9	\$ 19,801	45.6	100%	76.8	20.3	83%	930.9
Grundy	3.8	29%	37.1	\$ 15,683	3.8	29%	37.1			
Hamblen	1.7	3%	395.9	\$ 21,261	1.7	12%	123.9	0.0	0%	1,021.0
Hamilton	4.2	1%	637.1	\$ 27,229	4.2	12%	109.5	0.0	0%	1,375.8
Hancock	5.6	82%	30.4	\$ 14,326	5.6	82%	30.4			
Hardeman	17.0	64%	40.0	\$ 14,975	12.0	56%	32.5	5.0	96%	1,046.9
Hardin	10.3	40%	45.0	\$ 20,127	10.3	58%	30.9	-	0%	1,081.1
Hawkins	17.0	30%	118.2	\$ 20,662	16.9	51%	71.8	0.2	1%	985.1
Haywood	17.5	96%	34.2	\$ 18,714	8.0	93%	16.3	9.5	98%	1,670.8
Henderson	10.8	38%	54.5	\$ 20,449	10.8	50%	42.2	-	0%	1,108.3
Henry	8.0	25%	57.8	\$ 22,239	8.0	37%	39.4	-	0%	1,057.2
Hickman	17.0	68%	41.1	\$ 18,383	17.0	68%	41.1			
Houston	8.5	100%	42.4	\$ 18,539	8.5	100%	42.4			
Humphreys	13.7	74%	34.9	\$ 22,183	13.5	88%	29.1	0.2	6%	851.9
Jackson	11.6	100%	37.9	\$ 18,387	11.6	100%	37.9			
Jefferson	15.9	30%	195.7	\$ 20,619	15.7	49%	128.8	0.1	1%	817.8
Johnson	4.5	24%	61.5	\$ 16,470	4.5	28%	53.0	-	0%	907.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Knox	4.1	1%	882.6	\$ 28,136	1.9	4%	195.2	2.3	1%	1,535.9
Lake	7.7	100%	46.2	\$ 12,042	7.7	100%	46.2			
Lauderdale	27.7	99%	58.9	\$ 15,758	16.0	99%	34.9	11.7	100%	1,020.7
Lawrence	22.8	54%	68.2	\$ 19,136	22.8	71%	52.6	-	0%	1,101.3
Lewis	5.2	42%	43.5	\$ 17,751	5.2	60%	31.1	-	0%	973.1
Lincoln	13.0	38%	59.5	\$ 21,811	11.0	45%	44.1	2.0	22%	949.9
Loudon	4.4	9%	223.7	\$ 27,045	4.4	22%	103.7	0.0	0%	928.2
McMinn	14.9	28%	123.1	\$ 19,744	14.4	45%	78.4	0.5	2%	1,042.3
McNairy	13.3	51%	46.8	\$ 18,428	13.3	59%	40.2	0.1	2%	829.2
Macon	9.4	41%	74.1	\$ 17,009	9.4	52%	59.7	-	0%	1,168.5
Madison	7.1	7%	179.3	\$ 23,283	7.0	27%	50.3	0.1	0%	1,417.3
Marion	5.6	20%	56.4	\$ 21,399	5.6	26%	43.3	0.0	0%	1,118.5
Marshall	13.6	43%	84.8	\$ 20,739	13.6	64%	57.6	-	0%	1,448.4
Maury	7.9	9%	139.1	\$ 22,766	7.8	22%	62.1	0.1	0%	1,229.9
Meigs	7.0	59%	60.9	\$ 19,403	7.0	59%	60.9			
Monroe	13.7	30%	72.5	\$ 19,643	13.7	39%	56.4	-	0%	963.6
Montgomery	9.7	5%	346.9	\$ 22,380	9.7	27%	80.3	0.0	0%	1,576.3
Moore	2.9	45%	50.4	\$ 23,307	2.9	45%	50.4	-	0%	789.8
Morgan	16.8	75%	43.1	\$ 17,747	16.8	75%	43.0	0.0	35%	473.9
Obion	10.6	34%	57.2	\$ 20,900	10.4	54%	35.8	0.2	1%	1,539.8
Overton	22.1	98%	52.1	\$ 18,347	18.6	98%	44.2	3.6	100%	1,066.3
Perry	8.0	100%	19.2	\$ 17,214	8.0	100%	19.2			
Pickett	3.4	67%	31.0	\$ 21,942	3.4	67%	31.0			
Polk	4.6	27%	38.7	\$ 20,274	4.6	27%	38.7			
Putnam	7.4	10%	188.2	\$ 20,517	7.2	28%	74.0	0.2	0%	1,047.8
Rhea	12.8	39%	103.8	\$ 18,952	12.8	58%	72.3	-	0%	1,165.5
Roane	13.7	25%	152.5	\$ 23,936	13.4	47%	86.4	0.3	1%	855.1
Robertson	15.0	21%	147.3	\$ 23,809	14.7	40%	81.9	0.3	1%	1,348.0
Rutherford	19.4	7%	469.6	\$ 25,077	14.1	30%	96.9	5.3	2%	1,850.1
Scott	21.2	95%	42.1	\$ 17,121	17.6	97%	34.4	3.6	84%	762.1
Sequatchie	13.3	91%	55.0	\$ 20,899	9.3	88%	40.3	4.1	100%	930.2
Sevier	11.4	12%	161.9	\$ 22,242	11.2	21%	98.7	0.1	0%	994.7
Shelby	39.6	4%	1,223.4	\$ 25,549	15.2	57%	71.1	24.4	3%	2,348.8
Smith	9.1	46%	62.2	\$ 21,153	9.1	56%	52.2	-	0%	1,127.6
Stewart	5.3	40%	29.4	\$ 21,701	5.3	40%	29.4			
Sullivan	1.7	1%	380.8	\$ 23,850	1.7	4%	134.3	0.0	0%	1,021.7
Sumner	11.9	7%	322.1	\$ 27,795	9.9	21%	106.6	2.0	2%	1,421.0
Tipton	40.1	63%	139.3	\$ 23,054	22.3	65%	79.1	17.8	60%	1,092.5
Trousdale	5.0	62%	70.9	\$ 20,491	5.0	62%	70.9			
Unicoi	4.7	26%	98.5	\$ 20,152	4.2	50%	46.5	0.5	5%	1,435.3
Union	4.5	23%	86.6	\$ 17,426	4.5	23%	86.6			
Van Buren	3.6	66%	20.2	\$ 19,450	3.6	66%	20.2			
Warren	7.7	19%	92.6	\$ 19,531	7.7	31%	58.4	-	0%	1,174.3
Washington	4.4	3%	392.0	\$ 25,355	3.6	11%	138.0	0.8	1%	1,153.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Wayne	16.9	100%	23.0	\$ 17,706	16.9	100%	23.0			
Weakley	13.4	39%	59.9	\$ 19,547	13.4	59%	39.9	-	0%	1,329.0
White	9.2	35%	70.1	\$ 18,205	9.2	45%	55.7	-	0%	881.3
Williamson	19.7	10%	346.5	\$ 41,292	16.3	44%	77.4	3.4	2%	1,575.3
Wilson	11.2	9%	214.8	\$ 27,864	11.2	24%	90.8	0.0	0%	1,178.0
<b>Texas</b>	<b>9,986.8</b>	<b>38%</b>	<b>101.6</b>		<b>3,334.1</b>	<b>84%</b>	<b>15.7</b>	<b>6,652.7</b>	<b>29%</b>	<b>2,582.4</b>
Anderson	30.5	52%	55.5	\$ 18,495	30.5	76%	38.1	-	0%	1,122.9
Andrews	15.2	99%	10.3	\$ 27,429	2.5	98%	1.7	12.8	99%	2,064.6
Angelina	72.5	82%	110.6	\$ 20,982	36.3	95%	50.6	36.2	72%	1,206.7
Aransas	23.3	100%	92.4	\$ 26,953	6.3	100%	26.8	17.0	100%	1,004.4
Archer	7.1	79%	10.0	\$ 27,800	6.1	76%	8.9	1.0	100%	1,545.1
Armstrong	1.8	100%	1.9	\$ 26,823	1.8	100%	1.9			
Atascosa	46.2	99%	38.1	\$ 20,193	28.6	99%	23.8	17.6	99%	1,701.2
Austin	28.3	95%	45.9	\$ 25,884	19.7	99%	30.9	8.6	88%	1,829.6
Bailey	7.3	100%	8.8	\$ 18,676	2.0	100%	2.4	5.3	100%	2,183.5
Bandera	21.2	100%	26.7	\$ 25,364	21.2	100%	26.7			
Bastrop	24.7	31%	88.7	\$ 23,342	18.5	37%	57.6	6.2	22%	1,544.4
Baylor	3.3	100%	3.8	\$ 28,021	3.3	100%	3.8			
Bee	32.8	100%	37.3	\$ 16,848	14.3	100%	16.5	18.5	100%	1,521.0
Bell	338.1	100%	323.2	\$ 22,857	50.9	100%	54.6	287.2	99%	2,420.7
Bexar	186.4	10%	1,471.3	\$ 24,253	52.7	63%	116.0	133.7	8%	3,345.9
Blanco	8.6	79%	15.4	\$ 26,781	8.6	79%	15.4			
Borden	0.6	100%	0.7	\$ 50,042	0.6	100%	0.7			
Bosque	18.1	100%	18.5	\$ 23,992	14.8	100%	15.1	3.4	100%	1,550.5
Bowie	91.9	100%	103.9	\$ 22,911	32.4	100%	38.9	59.5	100%	1,116.3
Brazoria	88.9	26%	248.3	\$ 29,081	54.0	76%	57.9	34.9	13%	2,056.1
Brazos	101.3	48%	356.9	\$ 21,720	22.1	90%	48.0	79.2	43%	2,580.0
Brewster	9.1	100%	1.5	\$ 27,796	3.2	100%	0.5	6.0	100%	1,428.1
Briscoe	1.6	100%	1.7	\$ 20,697	1.6	100%	1.7			
Brooks	7.0	100%	7.4	\$ 14,345	2.2	100%	2.4	4.7	100%	2,307.8
Brown	37.6	100%	39.9	\$ 21,236	15.5	100%	16.7	22.2	100%	1,306.9
Burleson	17.1	100%	26.0	\$ 21,529	13.3	100%	20.2	3.8	98%	1,275.1
Burnet	44.9	99%	45.5	\$ 24,998	25.0	98%	25.9	19.9	100%	1,383.6
Caldwell	17.0	43%	72.3	\$ 19,673	7.2	43%	31.9	9.8	43%	1,342.6
Calhoun	21.5	100%	42.5	\$ 23,381	9.6	100%	19.1	11.9	100%	2,169.8
Callahan	13.7	100%	15.2	\$ 22,855	9.7	100%	10.9	3.9	100%	1,387.5
Cameron	427.5	100%	481.8	\$ 14,710	36.1	100%	50.6	391.4	100%	2,253.1
Camp	7.4	58%	64.9	\$ 19,176	6.4	81%	41.1	1.0	20%	1,141.7
Carson	5.9	100%	6.5	\$ 26,827	5.7	100%	6.1	0.3	100%	582.6
Cass	23.0	76%	32.1	\$ 20,104	20.8	92%	24.3	2.2	29%	770.3
Castro	7.9	100%	8.8	\$ 19,708	3.5	100%	4.0	4.3	100%	2,174.9
Chambers	24.3	65%	63.0	\$ 30,140	14.2	86%	28.8	10.1	48%	991.9
Cherokee	48.8	95%	48.8	\$ 18,801	33.0	99%	31.9	15.8	87%	1,413.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Childress	6.7	100%	9.7	\$ 20,248	2.0	100%	2.9	4.7	100%	1,749.2
Clay	10.3	100%	9.5	\$ 25,867	7.9	100%	7.2	2.5	99%	1,898.8
Cochran	2.9	100%	3.7	\$ 17,371	2.9	100%	3.7			
Coke	2.9	100%	3.1	\$ 26,407	2.9	100%	3.1			
Coleman	8.6	100%	6.9	\$ 18,967	4.4	100%	3.5	4.2	100%	1,695.5
Collin	66.3	8%	1,040.2	\$ 37,839	34.8	78%	77.4	31.5	4%	3,086.8
Collingsworth	2.8	100%	3.1	\$ 22,847	2.8	100%	3.1			
Colorado	20.2	100%	21.1	\$ 24,348	12.7	100%	13.2	7.6	100%	1,531.7
Comal	23.5	20%	212.5	\$ 32,980	16.0	29%	108.2	7.5	12%	1,429.1
Comanche	13.8	100%	14.8	\$ 19,268	10.0	99%	10.7	3.9	100%	1,570.6
Concho	3.6	100%	3.7	\$ 19,976	3.6	100%	3.7			
Cooke	35.1	91%	44.0	\$ 25,186	22.4	98%	26.3	12.7	81%	1,907.4
Coryell	80.0	100%	76.1	\$ 19,357	14.1	100%	13.8	65.9	100%	2,509.5
Cottle	1.3	100%	1.5	\$ 21,089	1.3	100%	1.5			
Crane	4.5	100%	5.7	\$ 22,291	0.5	100%	0.6	4.0	100%	2,994.2
Crockett	3.6	100%	1.3	\$ 23,872	0.9	100%	0.3	2.7	100%	1,509.6
Crosby	5.9	100%	6.6	\$ 18,959	5.9	100%	6.6			
Culberson	2.2	100%	0.6	\$ 16,227	2.2	100%	0.6			
Dallam	6.8	100%	4.5	\$ 19,752	1.5	100%	1.0	5.3	100%	2,400.5
Dallas	24.2	1%	2,782.8	\$ 26,816	3.6	22%	93.9	20.6	1%	3,482.3
Dawson	13.3	100%	14.8	\$ 17,677	2.1	100%	2.4	11.2	100%	2,097.1
Deaf Smith	19.6	100%	13.1	\$ 17,532	3.4	100%	2.3	16.2	100%	2,535.9
Delta	1.9	36%	20.0	\$ 20,150	1.9	36%	20.0			
Denton	80.4	11%	839.1	\$ 33,855	31.6	64%	76.9	48.9	7%	2,878.4
DeWitt	19.7	100%	21.8	\$ 23,720	9.6	99%	10.7	10.2	100%	1,597.8
Dickens	1.8	100%	2.0	\$ 20,578	1.8	100%	2.0			
Dimmit	9.8	100%	7.4	\$ 17,516	3.7	100%	2.8	6.1	100%	1,556.1
Donley	3.5	100%	3.8	\$ 21,904	3.5	100%	3.8			
Duval	11.2	100%	6.2	\$ 20,181	7.5	100%	4.2	3.7	100%	2,398.6
Eastland	18.3	100%	19.8	\$ 21,125	11.1	100%	12.1	7.2	100%	1,758.6
Ector	45.9	32%	159.5	\$ 24,247	13.4	95%	16.8	32.5	25%	2,239.0
Edwards	1.9	100%	0.9	\$ 22,015	1.9	100%	0.9			
Ellis	104.3	64%	173.5	\$ 25,662	43.8	85%	60.2	60.5	54%	1,316.4
El Paso	794.1	94%	830.9	\$ 18,379	15.3	99%	20.0	778.8	94%	3,493.0
Erath	39.2	100%	36.3	\$ 21,670	18.5	100%	17.2	20.7	99%	2,034.3
Falls	17.4	100%	22.7	\$ 16,486	11.3	100%	14.8	6.1	100%	1,599.8
Fannin	24.0	70%	38.6	\$ 20,337	17.5	72%	27.6	6.5	65%	1,917.0
Fayette	22.3	89%	26.4	\$ 27,032	16.9	100%	18.0	5.4	67%	1,522.9
Fisher	3.7	100%	4.2	\$ 22,709	3.7	100%	4.2			
Floyd	5.8	100%	5.9	\$ 21,655	3.1	99%	3.2	2.7	100%	1,626.8
Foard	1.2	100%	1.7	\$ 20,202	1.2	100%	1.7			
Fort Bend	29.6	4%	770.2	\$ 34,084	21.2	59%	56.5	8.3	1%	2,780.7
Franklin	4.0	36%	38.3	\$ 28,189	3.9	52%	26.9	0.1	2%	924.9
Freestone	20.1	100%	22.9	\$ 22,876	13.8	100%	15.9	6.3	100%	809.8

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Frio	17.4	100%	15.4	\$ 15,863	3.9	100%	3.4	13.5	100%	2,218.7
Gaines	8.7	49%	11.9	\$ 21,572	8.7	77%	7.5	0.0	0%	2,192.1
Galveston	16.5	5%	803.1	\$ 30,926	4.9	27%	76.2	11.6	4%	2,017.4
Garza	6.3	94%	7.5	\$ 16,175	1.2	85%	1.6	5.1	97%	2,877.5
Gillespie	26.0	100%	24.5	\$ 30,117	14.0	100%	13.3	12.0	100%	1,580.2
Glasscock	1.1	100%	1.3	\$ 31,135	1.1	100%	1.3			
Goliad	6.1	84%	8.5	\$ 30,031	6.1	84%	8.5			
Gonzales	12.6	63%	18.7	\$ 20,288	12.5	95%	12.3	0.1	1%	1,861.5
Gray	22.5	99%	24.5	\$ 21,738	4.4	100%	4.8	18.1	99%	1,655.0
Grayson	119.2	97%	131.6	\$ 24,003	53.1	99%	60.4	66.1	96%	1,695.6
Gregg	119.3	96%	456.5	\$ 24,064	16.7	96%	93.6	102.5	95%	1,223.0
Grimes	27.2	100%	34.6	\$ 20,307	19.0	100%	24.3	8.2	100%	1,011.3
Guadalupe	55.1	38%	205.3	\$ 26,184	25.3	71%	54.9	29.7	27%	1,899.2
Hale	33.4	93%	35.8	\$ 18,004	7.9	98%	8.2	25.4	91%	1,854.5
Hall	3.1	99%	3.6	\$ 19,004	3.1	99%	3.6			
Hamilton	8.5	100%	10.1	\$ 23,067	5.5	100%	6.7	2.9	100%	1,288.2
Hansford	2.1	38%	6.2	\$ 23,969	2.1	96%	2.4	-	0%	2,252.2
Hardeman	3.8	100%	5.5	\$ 19,829	3.8	100%	5.5			
Hardin	56.2	99%	63.5	\$ 25,559	28.9	100%	33.4	27.3	99%	1,104.3
Harris	111.8	3%	2,544.1	\$ 27,899	21.9	41%	111.1	89.9	2%	3,519.3
Harrison	35.9	54%	73.7	\$ 23,236	32.3	87%	42.8	3.6	13%	1,040.5
Hartley	6.1	100%	4.2	\$ 24,566	3.5	100%	2.4	2.6	100%	2,643.6
Haskell	5.4	100%	6.0	\$ 22,223	2.5	100%	2.8	2.9	100%	1,504.7
Hays	47.9	27%	261.7	\$ 26,873	34.7	64%	88.4	13.3	11%	1,932.7
Hemphill	3.9	100%	4.3	\$ 29,544	1.0	100%	1.1	2.9	100%	1,921.3
Henderson	75.9	96%	90.7	\$ 21,995	47.0	99%	56.3	29.0	92%	1,146.4
Hidalgo	841.3	100%	537.4	\$ 14,222	43.7	100%	36.1	797.6	100%	2,212.5
Hill	34.8	100%	36.5	\$ 21,182	27.0	100%	28.3	7.8	98%	1,220.2
Hockley	22.7	100%	25.0	\$ 21,984	8.8	100%	9.8	13.9	100%	2,167.2
Hood	6.9	13%	129.4	\$ 30,046	6.9	39%	46.6	-	0%	973.1
Hopkins	12.8	36%	46.8	\$ 21,606	11.2	51%	28.9	1.6	11%	1,378.6
Houston	23.8	100%	19.3	\$ 19,090	17.8	100%	14.5	5.9	100%	1,045.9
Howard	34.3	98%	38.7	\$ 19,965	6.4	99%	7.3	28.0	98%	1,929.4
Hudspeth	3.4	100%	0.8	\$ 14,142	3.4	100%	0.8			
Hunt	32.7	37%	104.7	\$ 22,341	27.4	54%	62.0	5.3	14%	1,459.4
Hutchinson	21.6	100%	24.4	\$ 23,383	4.4	100%	5.1	17.2	100%	1,125.4
Irion	1.2	100%	1.2	\$ 28,055	1.2	100%	1.2			
Jack	7.4	89%	9.1	\$ 24,325	3.8	80%	5.2	3.6	100%	1,663.8
Jackson	13.9	100%	16.8	\$ 23,418	8.7	100%	10.5	5.2	100%	1,559.2
Jasper	35.3	100%	37.6	\$ 20,254	28.0	100%	30.1	7.3	100%	823.7
Jeff Davis	2.4	100%	1.0	\$ 26,958	2.4	100%	1.0			
Jefferson	246.3	98%	286.5	\$ 23,236	21.4	100%	28.8	224.9	98%	1,731.1
Jim Hogg	5.2	100%	4.6	\$ 19,212	0.9	100%	0.8	4.3	100%	2,585.7
Jim Wells	41.2	100%	47.6	\$ 20,452	16.8	100%	19.7	24.4	100%	1,996.6

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Johnson	94.1	59%	218.6	\$ 24,816	55.4	94%	90.0	38.7	39%	1,472.9
Jones	19.9	100%	21.4	\$ 14,827	17.1	100%	18.4	2.8	100%	1,525.2
Karnes	14.5	100%	19.5	\$ 19,899	5.6	100%	7.5	8.9	100%	1,529.4
Kaufman	86.6	76%	145.8	\$ 24,954	49.0	92%	71.4	37.7	62%	1,705.2
Kendall	17.0	46%	55.3	\$ 35,827	11.9	56%	32.3	5.2	33%	1,536.4
Kenedy	0.4	100%	0.3	\$ 15,157	0.4	100%	0.3			
Kent	0.8	100%	0.9	\$ 24,839	0.8	100%	0.9			
Kerr	50.8	99%	46.6	\$ 26,334	21.2	100%	19.6	29.6	99%	1,670.2
Kimble	4.5	100%	3.6	\$ 27,502	2.1	100%	1.6	2.4	100%	1,021.8
King	0.3	100%	0.3	\$ 29,836	0.3	100%	0.3			
Kinney	3.6	100%	2.6	\$ 16,700	0.7	100%	0.5	2.9	100%	1,044.9
Kleberg	31.2	97%	36.6	\$ 18,918	6.3	100%	7.2	24.9	96%	2,682.6
Knox	3.4	100%	4.0	\$ 19,396	3.4	100%	4.0			
Lamar	32.9	66%	54.9	\$ 21,468	19.5	81%	27.0	13.4	52%	1,650.9
Lamb	13.2	100%	13.0	\$ 18,744	7.5	100%	7.4	5.7	100%	2,269.1
Lampasas	20.1	100%	28.3	\$ 23,423	14.1	100%	19.8	6.1	100%	1,863.7
La Salle	6.7	100%	4.5	\$ 13,307	2.8	100%	1.9	3.9	100%	2,021.3
Lavaca	19.0	100%	19.6	\$ 24,299	15.4	100%	15.9	3.6	100%	1,944.3
Lee	16.3	97%	26.6	\$ 25,123	11.3	96%	18.7	5.0	100%	1,734.3
Leon	17.2	100%	16.0	\$ 24,170	17.2	100%	16.0			
Liberty	58.3	76%	66.2	\$ 19,740	41.7	86%	42.7	16.6	59%	1,235.9
Limestone	22.9	100%	25.4	\$ 19,352	12.1	99%	13.5	10.8	100%	1,692.5
Lipscomb	1.7	52%	3.6	\$ 29,017	1.7	52%	3.6			
Live Oak	11.1	100%	10.7	\$ 21,016	11.1	100%	10.7			
Llano	19.7	100%	21.1	\$ 33,634	8.7	100%	9.4	11.0	100%	873.4
Loving	0.1	100%	0.1	\$ 34,068	0.1	100%	0.1			
Lubbock	177.4	62%	321.9	\$ 23,773	28.0	91%	38.8	149.3	58%	2,550.8
Lynn	5.6	100%	6.3	\$ 21,639	3.1	100%	3.5	2.4	100%	1,705.8
McCulloch	8.2	100%	7.7	\$ 20,677	3.0	100%	2.8	5.2	100%	1,809.6
McLennan	101.7	42%	232.5	\$ 21,660	55.4	98%	60.2	46.2	25%	1,965.5
McMullen	0.6	100%	0.5	\$ 27,375	0.6	100%	0.5			
Madison	14.1	100%	30.3	\$ 15,131	9.6	100%	20.8	4.5	99%	1,147.8
Marion	7.9	78%	26.8	\$ 20,337	7.9	78%	26.8			
Martin	4.8	100%	5.2	\$ 20,859	4.8	100%	5.2			
Mason	4.0	99%	4.3	\$ 27,504	4.0	99%	4.3			
Matagorda	35.9	100%	32.6	\$ 23,389	12.9	100%	11.8	23.0	100%	2,023.7
Maverick	55.7	98%	44.2	\$ 13,668	5.3	100%	4.2	50.4	98%	2,570.1
Medina	47.9	100%	36.1	\$ 22,413	29.3	100%	22.3	18.6	100%	1,429.4
Menard	2.0	100%	2.2	\$ 18,253	2.0	100%	2.2			
Midland	25.0	17%	159.8	\$ 33,672	12.1	71%	20.3	12.9	10%	2,337.2
Milam	18.5	75%	24.1	\$ 21,248	13.4	97%	13.6	5.1	47%	1,713.5
Mills	4.5	100%	6.0	\$ 22,651	4.5	100%	6.0			
Mitchell	8.4	100%	9.2	\$ 15,936	2.4	100%	2.7	6.0	100%	2,267.4
Montague	19.7	100%	21.1	\$ 24,699	12.1	100%	13.1	7.6	100%	1,248.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Montgomery	187.9	37%	489.2	\$ 32,911	71.5	63%	141.8	116.4	29%	1,616.3
Moore	22.4	100%	25.0	\$ 19,770	3.5	98%	4.0	18.9	100%	2,889.9
Morris	12.7	100%	50.6	\$ 20,045	10.1	100%	40.6	2.6	100%	883.8
Motley	1.1	100%	1.1	\$ 18,828	1.1	100%	1.1			
Nacogdoches	49.0	74%	69.7	\$ 20,362	29.0	94%	33.6	20.0	57%	1,445.9
Navarro	47.7	99%	47.7	\$ 20,327	26.0	100%	26.1	21.6	98%	1,747.8
Newton	14.1	100%	15.1	\$ 20,431	14.1	100%	15.1			
Nolan	12.9	88%	16.1	\$ 19,002	4.5	96%	5.1	8.4	84%	2,042.5
Nueces	114.3	33%	414.8	\$ 23,671	17.1	76%	31.1	97.2	30%	2,753.6
Ochiltree	1.4	13%	11.5	\$ 23,382	1.4	94%	1.6	0.0	0%	2,141.2
Oldham	2.0	100%	1.3	\$ 22,519	2.0	100%	1.3			
Orange	80.6	100%	241.6	\$ 24,736	29.2	100%	103.3	51.4	100%	1,007.3
Palo Pinto	26.7	95%	29.6	\$ 23,655	13.9	97%	15.2	12.8	92%	1,796.2
Panola	16.1	67%	29.8	\$ 26,525	16.1	92%	22.0	-	0%	921.4
Parker	76.0	60%	139.6	\$ 30,692	54.8	78%	81.9	21.3	38%	1,167.7
Parmer	10.1	100%	11.5	\$ 19,304	5.7	100%	6.4	4.5	100%	3,304.4
Pecos	5.6	37%	3.2	\$ 20,245	5.6	91%	1.3	-	0%	1,511.6
Polk	46.0	100%	43.5	\$ 19,498	35.6	100%	34.1	10.4	100%	879.8
Potter	96.9	79%	135.8	\$ 19,861	9.2	86%	12.5	87.7	78%	2,172.4
Presidio	7.8	100%	2.0	\$ 16,175	3.0	100%	0.8	4.8	100%	2,225.0
Rains	7.6	67%	49.6	\$ 21,946	6.9	65%	46.4	0.7	100%	1,494.3
Randall	77.6	62%	137.9	\$ 29,124	14.9	81%	21.2	62.7	59%	2,696.1
Reagan	3.4	100%	2.9	\$ 26,633	0.3	100%	0.3	3.0	100%	2,861.6
Real	3.4	100%	4.8	\$ 17,931	3.4	100%	4.8			
Red River	10.5	86%	11.7	\$ 19,014	7.8	83%	9.0	2.7	98%	1,003.3
Reeves	13.1	100%	5.0	\$ 15,467	2.0	100%	0.7	11.1	100%	1,729.2
Refugio	7.1	100%	9.3	\$ 23,174	4.3	100%	5.6	2.8	100%	1,953.8
Roberts	0.9	100%	1.0	\$ 36,172	0.9	100%	1.0			
Robertson	16.5	100%	19.3	\$ 21,709	12.5	100%	14.6	4.1	100%	1,584.5
Rockwall	24.9	28%	709.2	\$ 34,617	11.0	76%	163.9	13.9	18%	1,979.9
Runnels	10.0	100%	9.5	\$ 20,235	3.9	100%	3.7	6.1	100%	1,888.3
Rusk	51.8	95%	59.4	\$ 21,640	35.5	99%	39.5	16.3	87%	1,730.4
Sabine	10.8	100%	21.9	\$ 18,762	10.8	100%	21.9			
San Augustine	8.6	100%	16.3	\$ 18,695	8.6	100%	16.3			
San Jacinto	27.3	100%	48.0	\$ 24,733	27.3	100%	48.0			
San Patricio	40.6	64%	91.9	\$ 23,373	10.6	85%	18.8	30.0	59%	1,739.0
San Saba	5.9	100%	5.2	\$ 18,009	3.0	100%	2.7	2.9	100%	1,784.8
Schleicher	3.6	100%	2.7	\$ 24,787	3.6	100%	2.7			
Scurry	15.0	88%	18.8	\$ 22,860	4.9	93%	5.9	10.1	86%	1,707.2
Shackelford	2.9	100%	3.2	\$ 25,436	2.9	100%	3.2			
Shelby	25.4	100%	32.0	\$ 21,126	20.5	100%	25.9	4.9	99%	856.2
Sherman	2.7	91%	3.2	\$ 21,936	2.7	91%	3.2			
Smith	160.0	72%	239.5	\$ 25,626	60.1	86%	85.4	99.9	66%	1,427.1
Somervell	5.6	62%	48.2	\$ 28,134	5.6	62%	48.2			



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
<b>Starr</b>	63.0	100%	51.6	\$ 11,584	14.6	100%	12.2	48.4	100%	1,800.0
<b>Stephens</b>	9.5	99%	10.7	\$ 20,535	3.8	98%	4.3	5.8	100%	1,542.3
<b>Sterling</b>	1.1	100%	1.2	\$ 20,157	1.1	100%	1.2			
<b>Stonewall</b>	1.2	100%	1.3	\$ 24,063	1.2	100%	1.3			
<b>Sutton</b>	4.1	100%	2.8	\$ 27,721	0.7	100%	0.5	3.4	100%	1,742.4
<b>Swisher</b>	7.5	98%	8.6	\$ 17,880	2.8	100%	3.2	4.7	97%	1,899.9
<b>Tarrant</b>	30.5	2%	2,235.7	\$ 28,266	8.2	32%	128.9	22.4	1%	2,869.0
<b>Taylor</b>	83.1	63%	145.0	\$ 23,141	19.2	86%	26.0	64.0	58%	2,016.6
<b>Terrell</b>	0.9	98%	0.4	\$ 31,578	0.9	98%	0.4			
<b>Terry</b>	12.5	100%	14.1	\$ 21,201	3.0	100%	3.4	9.5	100%	2,111.1
<b>Throckmorton</b>	1.2	74%	1.7	\$ 24,086	1.2	74%	1.7			
<b>Titus</b>	15.2	45%	83.5	\$ 19,356	12.9	72%	45.4	2.3	14%	1,173.1
<b>Tom Green</b>	77.4	69%	73.5	\$ 23,712	16.1	92%	11.9	61.3	65%	2,022.1
<b>Travis</b>	152.3	14%	1,113.0	\$ 33,206	24.8	40%	97.5	127.5	12%	2,873.3
<b>Trinity</b>	14.6	99%	21.1	\$ 18,730	11.3	100%	16.5	3.2	99%	776.1
<b>Tyler</b>	21.9	100%	23.7	\$ 19,612	17.1	100%	18.6	4.9	100%	957.3
<b>Upshur</b>	39.2	97%	69.0	\$ 22,483	31.7	99%	55.8	7.5	92%	1,101.5
<b>Upton</b>	3.1	100%	2.5	\$ 22,953	3.1	100%	2.5			
<b>Uvalde</b>	26.2	100%	16.9	\$ 17,479	8.6	100%	5.6	17.6	100%	1,686.8
<b>Val Verde</b>	50.2	100%	16.0	\$ 17,867	5.1	100%	1.6	45.1	100%	2,322.8
<b>Van Zandt</b>	32.4	61%	63.4	\$ 21,920	31.2	77%	48.8	1.2	10%	1,018.0
<b>Victoria</b>	2.0	2%	99.1	\$ 24,700	2.0	9%	27.0	-	0%	2,217.8
<b>Walker</b>	57.6	84%	87.9	\$ 16,330	30.0	97%	40.4	27.6	73%	2,237.8
<b>Waller</b>	44.5	97%	89.8	\$ 22,412	28.3	98%	57.8	16.2	94%	1,470.5
<b>Ward</b>	10.6	100%	12.7	\$ 22,278	2.8	100%	3.4	7.7	100%	1,239.7
<b>Washington</b>	32.3	93%	57.3	\$ 23,070	18.5	100%	31.1	13.8	86%	1,930.7
<b>Webb</b>	268.9	100%	80.1	\$ 14,553	3.7	100%	1.1	265.1	100%	3,771.1
<b>Wharton</b>	40.8	100%	37.6	\$ 20,310	20.6	100%	19.2	20.1	99%	1,817.3
<b>Wheeler</b>	4.7	100%	5.2	\$ 30,097	4.7	100%	5.2			
<b>Wichita</b>	130.5	99%	210.0	\$ 22,905	13.8	100%	24.4	116.7	99%	1,983.4
<b>Wilbarger</b>	13.0	100%	13.4	\$ 20,373	2.8	100%	2.9	10.3	100%	1,855.7
<b>Willacy</b>	22.7	100%	38.4	\$ 11,313	8.0	100%	13.7	14.7	100%	2,479.6
<b>Williamson</b>	367.4	77%	429.5	\$ 31,070	43.6	79%	57.0	323.8	76%	2,930.2
<b>Wilson</b>	45.1	98%	57.6	\$ 27,238	39.3	98%	50.0	5.8	92%	1,683.8
<b>Winkler</b>	7.1	100%	8.4	\$ 23,629	1.2	100%	1.4	5.9	100%	1,814.0
<b>Wise</b>	61.7	99%	68.6	\$ 25,663	44.3	99%	50.0	17.4	99%	1,252.5
<b>Wood</b>	22.3	52%	67.1	\$ 23,129	19.3	59%	51.5	3.0	28%	895.4
<b>Yoakum</b>	3.5	43%	10.1	\$ 21,389	3.0	99%	3.9	0.4	9%	1,913.1
<b>Young</b>	3.8	20%	20.3	\$ 26,979	3.8	58%	7.2	-	0%	1,818.9
<b>Zapata</b>	14.7	100%	14.7	\$ 16,671	3.2	100%	3.3	11.4	100%	2,195.5
<b>Zavala</b>	11.6	100%	8.9	\$ 12,828	4.5	100%	3.5	7.1	100%	2,196.9
<b>Utah</b>	<b>149.2</b>	<b>5%</b>	<b>35.7</b>		<b>104.9</b>	<b>39%</b>	<b>3.3</b>	<b>44.3</b>	<b>2%</b>	<b>2,910.5</b>
<b>Beaver</b>	0.9	13%	2.6	\$ 19,415	0.8	22%	1.4	0.1	3%	1,430.2

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Box Elder	7.7	15%	9.0	\$ 21,720	7.4	47%	2.8	0.3	1%	1,797.4
Cache	9.1	8%	102.1	\$ 20,074	6.6	37%	16.0	2.5	2%	2,300.4
Carbon	1.9	9%	14.5	\$ 20,155	1.9	27%	4.8	0.0	0%	1,511.1
Daggett	1.1	100%	1.5	\$ 22,811	1.1	100%	1.5			
Davis	0.4	0%	1,095.2	\$ 26,035	0.2	6%	16.0	0.2	0%	2,925.3
Duchesne	19.6	100%	6.1	\$ 23,411	13.4	100%	4.1	6.2	100%	2,020.5
Emery	1.3	12%	2.4	\$ 20,137	1.3	16%	1.8	-	0%	1,096.7
Garfield	1.1	21%	1.0	\$ 21,989	1.1	21%	1.0			
Grand	1.0	11%	2.4	\$ 23,558	1.0	46%	0.6	0.0	0%	1,580.5
Iron	0.5	1%	15.2	\$ 17,839	0.5	5%	3.1	-	0%	2,153.5
Juab	2.9	26%	3.2	\$ 18,108	2.3	47%	1.4	0.6	10%	1,567.4
Kane	1.9	27%	1.8	\$ 24,154	1.9	49%	1.0	-	0%	1,344.6
Millard	6.1	50%	1.9	\$ 19,972	6.0	66%	1.4	0.1	4%	1,669.9
Morgan	8.7	86%	16.8	\$ 26,274	5.0	77%	10.7	3.7	100%	1,542.4
Piute	0.3	18%	2.1	\$ 16,959	0.3	18%	2.1			
Rich	0.9	37%	2.3	\$ 24,258	0.9	37%	2.3			
Salt Lake	3.1	0%	1,435.9	\$ 26,103	3.0	30%	21.8	0.1	0%	3,814.0
San Juan	12.0	84%	1.8	\$ 15,476	8.7	79%	1.4	3.3	100%	1,947.8
Sanpete	5.0	17%	18.3	\$ 17,811	4.0	34%	7.5	1.0	6%	2,104.3
Sevier	1.8	8%	11.1	\$ 19,115	1.8	13%	7.2	0.0	0%	2,830.4
Summit	1.0	3%	20.3	\$ 42,462	1.0	7%	7.7	-	0%	1,312.7
Tooele	4.2	7%	9.2	\$ 22,252	3.7	34%	1.6	0.5	1%	2,515.3
Uintah	34.9	100%	7.8	\$ 23,805	16.1	100%	3.6	18.8	100%	1,099.4
Utah	3.3	1%	286.0	\$ 20,774	2.7	15%	10.1	0.6	0%	3,094.0
Wasatch	2.7	10%	22.1	\$ 25,777	1.8	28%	5.7	0.8	4%	1,508.7
Washington	3.2	2%	63.3	\$ 21,472	3.0	13%	9.7	0.2	0%	2,326.0
Wayne	0.9	32%	1.1	\$ 19,858	0.9	32%	1.1			
Weber	11.7	5%	418.5	\$ 23,106	6.5	49%	27.9	5.2	2%	2,387.5
<b>Vermont</b>	<b>502.4</b>	<b>80%</b>	<b>68.4</b>		<b>345.9</b>	<b>90%</b>	<b>42.3</b>	<b>156.5</b>	<b>63%</b>	<b>1,581.8</b>
Addison	30.1	81%	48.4	\$ 28,722	26.6	93%	37.9	3.5	42%	1,413.9
Bennington	34.6	93%	55.1	\$ 29,196	22.8	95%	36.0	11.8	90%	1,638.5
Caledonia	13.1	42%	48.3	\$ 23,584	13.1	56%	36.1	0.0	0%	1,478.9
Chittenden	114.2	71%	298.4	\$ 33,281	38.6	94%	87.9	75.6	64%	1,702.4
Essex	5.5	88%	9.4	\$ 20,887	5.5	88%	9.4			
Franklin	47.7	98%	76.7	\$ 27,398	34.8	99%	56.1	12.8	96%	1,857.3
Grand Isle	6.9	99%	85.6	\$ 33,159	6.9	99%	85.6			
Lamoille	24.6	99%	54.3	\$ 27,157	24.6	99%	54.3			
Orange	22.1	76%	42.2	\$ 27,289	22.1	78%	41.1	0.0	1%	703.0
Orleans	26.8	98%	39.6	\$ 22,303	23.1	98%	34.0	3.7	94%	1,423.5
Rutland	52.0	85%	65.7	\$ 26,205	33.9	91%	40.7	18.1	76%	1,525.2
Washington	32.3	54%	87.1	\$ 29,761	24.8	79%	47.2	7.5	26%	1,331.5
Windham	42.9	97%	56.6	\$ 28,867	29.6	97%	39.0	13.3	95%	1,969.8
Windsor	49.7	89%	57.8	\$ 30,932	39.5	93%	44.2	10.2	74%	1,197.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Virginia	1,733.6	21%	209.9		1,280.5	64%	54.2	453.1	7%	2,362.1
Accomack	32.1	100%	71.5	\$ 22,703	32.1	100%	71.5			
Albemarle	46.7	45%	144.4	\$ 37,239	31.0	69%	65.1	15.7	27%	2,121.4
Alleghany	5.9	38%	35.3	\$ 24,162	5.9	75%	17.9	-	0%	1,234.6
Amelia	8.6	65%	37.0	\$ 25,100	8.6	65%	37.0			
Amherst	11.7	36%	68.7	\$ 22,580	10.7	51%	45.3	1.0	9%	784.9
Appomattox	8.0	52%	46.1	\$ 23,636	8.0	52%	46.1			
Arlington	0.3	0%	8,313.3	\$ 62,018				0.3	0%	8,313.3
Augusta	16.2	21%	78.6	\$ 25,519	15.3	31%	52.9	0.9	3%	1,043.2
Bath	4.5	99%	8.6	\$ 28,704	4.5	99%	8.6			
Bedford	25.1	35%	94.3	\$ 28,697	25.0	45%	75.2	0.1	1%	742.6
Bland	6.7	99%	19.0	\$ 18,501	6.7	99%	19.0			
Botetourt	13.5	40%	62.5	\$ 32,490	13.2	61%	40.9	0.3	2%	863.5
Brunswick	13.2	78%	29.7	\$ 16,060	11.5	90%	22.5	1.7	41%	1,441.4
Buchanan	9.9	43%	45.6	\$ 17,489	9.9	43%	45.6			
Buckingham	13.6	77%	30.2	\$ 17,167	13.6	77%	30.2			
Campbell	15.3	27%	111.2	\$ 23,231	14.9	44%	69.7	0.4	2%	1,136.7
Caroline	17.2	56%	58.6	\$ 25,718	17.1	71%	45.6	0.2	2%	1,480.1
Carroll	13.7	46%	63.6	\$ 19,385	13.7	47%	61.8	0.0	5%	878.3
Charles City	2.6	35%	39.9	\$ 26,198	2.6	35%	39.9			
Charlotte	9.0	73%	26.2	\$ 18,762	9.0	73%	26.2			
Chesterfield	13.1	4%	789.9	\$ 32,572	4.4	22%	89.6	8.7	3%	1,579.5
Clarke	5.0	35%	81.7	\$ 38,748	4.8	51%	54.4	0.1	3%	2,491.2
Craig	5.1	100%	15.7	\$ 21,498	5.1	100%	15.7			
Culpeper	38.5	76%	133.9	\$ 27,379	27.2	89%	82.6	11.3	56%	2,648.8
Cumberland	9.0	86%	34.9	\$ 21,540	9.0	90%	33.5	-	0%	1,903.0
Dickenson	11.4	72%	47.7	\$ 18,215	11.4	72%	47.7			
Dinwiddie	14.4	50%	57.5	\$ 23,781	13.6	66%	41.6	0.8	9%	1,056.7
Essex	11.5	99%	45.0	\$ 21,532	8.9	100%	34.8	2.6	97%	990.3
Fairfax	3.8	0%	2,854.1	\$ 50,532	0.7	5%	191.8	3.1	0%	3,508.2
Fauquier	19.5	29%	104.6	\$ 39,600	18.9	50%	60.7	0.6	2%	1,376.8
Floyd	15.6	100%	41.2	\$ 21,816	15.6	100%	41.2			
Fluvanna	9.2	34%	95.2	\$ 30,881	9.1	54%	59.5	0.2	2%	1,870.4
Franklin	21.4	36%	85.1	\$ 24,557	21.4	41%	76.9	0.0	0%	854.9
Frederick	73.6	87%	203.6	\$ 30,112	34.7	95%	94.9	38.9	82%	1,701.8
Giles	16.1	93%	48.9	\$ 23,485	11.2	97%	33.0	5.0	85%	1,094.0
Gloucester	23.8	64%	172.1	\$ 28,673	19.0	79%	116.8	4.8	36%	1,231.4
Goochland	12.0	52%	82.7	\$ 45,039	12.0	53%	80.4	-	0%	813.4
Grayson	7.7	52%	33.3	\$ 20,591	7.7	52%	33.2	-	0%	233.6
Greene	16.9	88%	123.7	\$ 26,998	8.9	93%	65.6	8.0	82%	974.6
Greensville	9.3	76%	41.7	\$ 16,380	8.8	81%	36.9	0.6	38%	899.5
Halifax	35.1	99%	43.4	\$ 20,929	27.0	99%	33.7	8.1	99%	1,194.3
Hanover	25.4	25%	220.8	\$ 33,540	23.1	58%	93.9	2.3	4%	1,432.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Henrico	4.3	1%	1,377.1	\$ 33,115	2.0	15%	129.6	2.3	1%	2,336.1
Henry	51.9	99%	137.7	\$ 19,852	31.1	98%	90.7	20.8	100%	660.3
Highland	2.2	100%	5.4	\$ 26,372	2.2	100%	5.4			
Isle of Wight	4.2	11%	117.7	\$ 30,903	4.2	20%	68.0	-	0%	1,115.9
James City	17.7	24%	514.5	\$ 39,133	6.7	59%	113.8	10.9	18%	1,438.9
King and Queen	6.6	95%	22.2	\$ 23,868	6.6	95%	22.2			
King George	25.2	97%	145.1	\$ 34,234	19.1	100%	112.3	6.1	88%	760.2
King William	10.3	61%	61.7	\$ 26,940	10.0	71%	51.7	0.3	10%	1,526.1
Lancaster	11.0	98%	84.0	\$ 30,737	11.0	98%	84.0			
Lee	25.9	99%	59.8	\$ 16,664	25.8	99%	59.5	0.1	100%	804.2
Loudoun	33.5	9%	695.6	\$ 46,565	20.6	48%	104.7	12.9	4%	3,005.6
Louisa	35.4	99%	72.2	\$ 26,956	35.4	99%	72.2			
Lunenburg	11.1	88%	29.3	\$ 17,630	11.1	88%	29.3			
Madison	13.3	99%	42.0	\$ 27,296	13.3	99%	42.0			
Mathews	8.7	98%	102.2	\$ 31,342	8.7	98%	102.2			
Mecklenburg	29.3	90%	51.8	\$ 20,056	22.2	88%	40.7	7.1	98%	1,112.7
Middlesex	11.2	100%	85.6	\$ 30,531	11.2	100%	85.6			
Montgomery	21.0	22%	251.1	\$ 23,548	9.6	41%	68.4	11.3	15%	1,752.4
Nelson	15.2	100%	32.2	\$ 26,059	15.2	100%	32.2			
New Kent	15.7	78%	96.1	\$ 32,068	15.7	78%	96.1			
Northampton	12.1	100%	57.3	\$ 23,473	12.1	100%	57.3			
Northumberland	12.3	100%	64.6	\$ 28,568	12.3	100%	64.6			
Nottoway	8.5	54%	50.2	\$ 19,337	6.9	83%	26.7	1.7	22%	1,679.2
Orange	35.6	99%	106.1	\$ 27,655	20.2	98%	62.5	15.5	100%	1,491.8
Page	6.2	26%	77.8	\$ 22,355	6.1	31%	63.3	0.1	3%	1,223.0
Patrick	17.7	98%	37.5	\$ 18,860	17.7	98%	37.5			
Pittsylvania	62.6	98%	65.6	\$ 21,583	53.5	99%	57.0	9.0	98%	579.4
Powhatan	10.7	36%	114.7	\$ 31,252	10.7	36%	114.4	-	0%	746.2
Prince Edward	12.2	50%	70.0	\$ 17,208	12.2	81%	44.2	0.0	0%	1,397.8
Prince George	8.1	23%	136.1	\$ 24,434	6.5	35%	73.4	1.6	9%	1,228.3
Prince William	8.9	2%	1,305.1	\$ 37,401	3.1	18%	102.9	5.8	1%	2,497.1
Pulaski	9.1	26%	109.2	\$ 23,987	7.2	44%	53.7	1.9	10%	1,294.3
Rappahannock	6.7	91%	27.7	\$ 36,505	6.7	91%	27.7			
Richmond	9.3	100%	48.6	\$ 20,875	9.3	100%	48.6			
Roanoke	19.5	21%	375.5	\$ 31,728	10.6	61%	88.0	8.8	12%	1,489.7
Rockbridge	11.9	52%	37.9	\$ 25,638	11.7	57%	34.8	0.2	10%	576.6
Rockingham	19.3	24%	93.0	\$ 27,298	16.9	37%	55.9	2.4	7%	1,370.4
Russell	10.5	37%	60.0	\$ 19,735	10.5	42%	53.2	-	0%	1,123.2
Scott	12.4	54%	42.9	\$ 21,485	11.1	58%	35.7	1.3	33%	859.9
Shenandoah	44.1	100%	86.8	\$ 25,134	29.1	100%	58.2	15.1	100%	1,681.4
Smyth	29.2	92%	70.4	\$ 20,837	22.5	94%	53.7	6.7	85%	1,322.3
Southampton	8.8	46%	31.6	\$ 22,433	8.8	47%	31.0	-	0%	806.8
Spotsylvania	10.9	8%	326.2	\$ 31,360	9.5	24%	113.3	1.4	2%	1,923.9
Stafford	10.5	8%	515.6	\$ 36,574	7.0	26%	125.2	3.5	3%	1,902.9

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Surry	6.8	96%	25.5	\$ 22,600	6.8	96%	25.5			
Sussex	7.9	66%	24.3	\$ 16,546	7.9	66%	24.3			
Tazewell	11.1	25%	86.7	\$ 21,358	9.6	41%	47.3	1.4	7%	897.1
Warren	7.0	18%	185.0	\$ 28,889	5.5	27%	102.4	1.4	7%	1,124.9
Washington	33.1	59%	99.7	\$ 25,109	29.6	75%	72.9	3.6	22%	845.4
Westmoreland	17.6	100%	76.9	\$ 25,245	13.8	100%	60.7	3.8	100%	2,157.4
Wise	12.6	30%	103.3	\$ 19,107	10.3	45%	59.8	2.3	12%	1,175.8
Wythe	15.7	53%	64.2	\$ 23,219	15.6	70%	49.1	0.1	1%	1,031.3
York	9.9	15%	647.4	\$ 36,373	3.0	70%	64.2	7.0	11%	1,625.5
Alexandria	3.1	2%	9,708.4	\$ 54,608				3.1	2%	9,708.4
Bedford	-	0%	903.4	\$ 22,322	-	0%	114.5	-	0%	1,043.9
Bristol	0.1	0%	1,356.6	\$ 18,820	0.0	57%	21.0	0.1	0%	1,391.7
Buena Vista	0.1	2%	992.3	\$ 18,453	0.0	6%	76.6	0.1	1%	1,930.7
Charlottesville	1.0	2%	4,322.3	\$ 27,268	-			1.0	2%	4,322.3
Chesapeake	10.8	5%	670.7	\$ 29,905	7.0	41%	67.5	3.8	2%	2,388.9
Colonial Heights	0.7	4%	2,317.7	\$ 27,610	-		-	0.7	4%	2,322.0
Covington	0.0	0%	1,057.5	\$ 20,160	-		-	0.0	0%	1,057.6
Danville	39.6	95%	966.6	\$ 19,626	1.8	91%	123.9	37.8	96%	1,452.3
Emporia	0.2	3%	870.5	\$ 19,710	0.0	1%	127.3	0.2	3%	1,366.0
Fairfax	-	0%	3,695.3	\$ 44,345				-	0%	3,695.3
Falls Church	-	0%	6,500.5	\$ 59,088				-	0%	6,500.5
Franklin	-	0%	1,062.5	\$ 19,588	-	0%	112.4	-	0%	1,474.3
Fredericksburg	0.2	1%	2,482.9	\$ 27,222	-	0%	212.3	0.2	1%	2,856.2
Galax	0.4	6%	864.4	\$ 21,769	0.0	5%	291.8	0.4	6%	1,254.4
Hampton	7.3	5%	2,680.6	\$ 25,247	0.3	75%	133.4	7.0	5%	2,819.6
Harrisonburg	5.7	11%	2,938.8	\$ 17,080				5.7	11%	2,938.8
Hopewell	0.3	1%	2,204.4	\$ 20,388	-		-	0.3	1%	2,495.9
Lexington	0.2	3%	2,832.7	\$ 14,763				0.2	3%	2,832.7
Lynchburg	9.0	11%	1,622.2	\$ 21,440	0.1	4%	200.1	8.9	11%	2,014.5
Manassas	1.1	3%	3,892.8	\$ 28,752	-		-	1.1	3%	4,014.0
Manassas Park	0.3	2%	6,055.0	\$ 26,944				0.3	2%	6,055.0
Martinsville	13.0	98%	1,215.3	\$ 19,900				13.0	98%	1,215.3
Newport News	1.0	1%	2,638.1	\$ 25,310	0.0	37%	4.0	1.0	1%	3,274.0
Norfolk	33.5	14%	4,515.7	\$ 24,659	-			33.5	14%	4,515.7
Norton	0.2	5%	527.2	\$ 22,699	0.0	14%	29.4	0.2	5%	885.0
Petersburg	1.2	4%	1,400.0	\$ 18,936	0.0	4%	116.1	1.2	4%	1,852.8
Poquoson	0.3	3%	801.2	\$ 38,444	0.3	44%	98.7	-	0%	1,521.5
Portsmouth	0.8	1%	2,810.4	\$ 23,138				0.8	1%	2,810.4
Radford	0.0	0%	1,669.3	\$ 16,181	0.0	2%	232.4	0.0	0%	2,053.6
Richmond	5.7	3%	3,463.2	\$ 27,184	-			5.7	3%	3,463.2
Roanoke	2.5	3%	2,301.8	\$ 23,295	0.0	100%	97.7	2.5	3%	2,305.5
Salem	1.4	6%	1,721.4	\$ 26,661				1.4	6%	1,721.4
Staunton	1.8	8%	1,191.5	\$ 24,753	0.2	20%	125.8	1.6	7%	1,746.7
Suffolk	4.1	4%	227.5	\$ 29,135	4.0	23%	48.8	0.1	0%	1,604.5

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Virginia Beach	18.4	4%	1,780.7	\$ 31,934	4.8	71%	59.9	13.6	3%	3,233.0
Waynesboro	1.3	6%	1,434.4	\$ 22,872	0.4	69%	148.7	0.9	4%	1,868.9
Williamsburg	0.8	5%	1,645.3	\$ 23,127	-			0.8	5%	1,645.3
Winchester	24.1	89%	2,913.6	\$ 26,060				24.1	89%	2,913.6
<b>Washington</b>	<b>276.7</b>	<b>4%</b>	<b>105.3</b>		<b>237.6</b>	<b>21%</b>	<b>17.3</b>	<b>39.1</b>	<b>1%</b>	<b>2,479.0</b>
Adams	-	0%	9.9	\$ 16,940	-	0%	3.8	-	0%	1,501.6
Asotin	11.6	53%	34.4	\$ 24,659	1.4	96%	2.4	10.1	50%	1,698.8
Benton	0.3	0%	108.6	\$ 28,583	0.3	2%	11.2	-	0%	2,115.0
Chelan	4.6	6%	25.5	\$ 25,893	4.6	23%	6.9	-	0%	2,023.3
Clallam	17.1	22%	44.6	\$ 25,865	13.5	48%	16.7	3.6	7%	1,161.2
Clark	15.2	3%	712.7	\$ 27,681	14.5	24%	121.2	0.8	0%	3,018.7
Columbia	0.0	0%	4.6	\$ 23,814	0.0	0%	1.6	-	0%	1,812.4
Cowlitz	10.2	10%	92.2	\$ 23,557	9.5	31%	27.7	0.7	1%	1,806.6
Douglas	3.3	8%	22.1	\$ 22,467	3.3	32%	5.9	0.0	0%	1,874.8
Ferry	6.2	83%	3.4	\$ 20,052	6.2	83%	3.4			
Franklin	-	0%	71.8	\$ 19,503	-	0%	9.2	-	0%	2,368.9
Garfield	0.0	0%	2.4	\$ 26,954	0.0	0%	2.4			
Grant	2.2	2%	34.9	\$ 19,738	1.9	6%	13.1	0.3	0%	1,738.6
Grays Harbor	15.8	21%	39.2	\$ 21,828	11.3	37%	16.2	4.5	10%	1,667.2
Island	-	0%	409.2	\$ 30,941	-	0%	239.6	-	0%	1,155.8
Jefferson	3.1	10%	17.0	\$ 28,266	3.1	18%	9.9	-	0%	1,497.0
King	0.6	0%	943.2	\$ 39,911	0.6	1%	40.1	-	0%	3,663.1
Kitsap	5.8	2%	655.7	\$ 31,769	5.2	12%	180.7	0.5	0%	1,429.8
Kittitas	0.4	1%	18.7	\$ 22,796	0.4	2%	7.6	-	0%	2,169.9
Klickitat	13.4	65%	11.0	\$ 22,229	10.2	82%	6.7	3.2	40%	1,225.6
Lewis	32.4	42%	32.1	\$ 22,212	31.5	67%	19.7	1.0	3%	1,466.7
Lincoln	3.3	31%	4.5	\$ 25,816	3.3	31%	4.5			
Mason	9.7	15%	66.8	\$ 23,542	9.5	23%	43.9	0.2	1%	1,079.1
Okanogan	17.8	43%	7.9	\$ 20,735	17.8	54%	6.3	-	0%	1,727.1
Pacific	4.9	22%	23.6	\$ 23,888	4.8	33%	15.5	0.1	1%	994.8
Pend Oreille	7.0	53%	9.5	\$ 23,167	7.0	64%	7.9	-	0%	2,103.5
Pierce	23.6	3%	493.7	\$ 28,223	19.4	36%	41.1	4.2	1%	2,216.5
San Juan	0.1	0%	102.4	\$ 37,719	0.1	0%	102.4			
Skagit	1.3	1%	71.1	\$ 27,065	1.3	4%	21.1	-	0%	1,918.7
Skamania	4.3	38%	6.9	\$ 28,449	4.3	38%	6.9			
Snohomish	1.3	0%	359.2	\$ 31,349	1.3	2%	42.8	-	0%	2,778.1
Spokane	2.2	0%	275.8	\$ 25,661	2.2	3%	42.6	-	0%	2,444.6
Stevens	31.4	71%	17.8	\$ 21,986	26.5	76%	14.2	4.8	53%	1,023.1
Thurston	18.2	7%	369.3	\$ 29,744	13.2	24%	93.5	5.1	2%	1,709.0
Wahkiakum	4.0	99%	15.3	\$ 22,334	4.0	99%	15.3			
Walla Walla	0.3	1%	46.7	\$ 23,809	0.3	3%	8.1	-	0%	2,103.4
Whatcom	1.3	1%	100.3	\$ 26,530	1.3	2%	26.5	-	0%	2,120.7
Whitman	0.0	0%	21.1	\$ 21,208	0.0	0%	5.6	-	0%	4,137.0

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Yakima	3.6	1%	58.2	\$ 19,433	3.6	6%	13.5	-	0%	2,287.7
<b>West Virginia</b>	<b>1,041.9</b>	<b>56%</b>	<b>77.8</b>		<b>713.6</b>	<b>74%</b>	<b>41.0</b>	<b>328.3</b>	<b>36%</b>	<b>1,419.8</b>
Barbour	13.4	79%	49.6	\$ 17,876	10.7	75%	41.9	2.7	100%	1,596.4
Berkeley	7.8	7%	355.6	\$ 26,264	5.8	16%	142.7	2.0	3%	1,133.8
Boone	21.6	89%	48.4	\$ 21,627	17.8	90%	39.7	3.8	85%	1,099.2
Braxton	9.6	66%	28.3	\$ 18,635	9.6	66%	28.3			
Brooke	7.2	31%	261.7	\$ 22,815	6.1	63%	123.7	1.1	8%	1,287.3
Cabell	20.8	22%	343.4	\$ 23,647	12.7	61%	86.2	8.1	11%	1,947.5
Calhoun	7.6	100%	27.4	\$ 18,053	7.6	100%	27.4			
Clay	9.0	99%	26.6	\$ 16,740	9.0	99%	26.6			
Doddridge	7.9	94%	26.3	\$ 17,334	7.9	94%	26.3			
Fayette	36.6	80%	68.9	\$ 18,685	21.2	79%	41.1	15.4	82%	1,372.5
Gilmer	6.4	70%	27.0	\$ 17,870	4.2	78%	16.0	2.2	59%	2,242.3
Grant	7.9	65%	25.6	\$ 20,193	7.9	81%	20.5	0.0	0%	1,760.3
Greenbrier	31.3	87%	35.0	\$ 21,720	23.3	93%	24.8	8.0	75%	1,201.7
Hampshire	24.7	98%	39.2	\$ 17,734	24.7	98%	39.2			
Hancock	1.9	6%	364.7	\$ 23,261	1.5	17%	135.7	0.4	2%	1,323.0
Hardy	14.4	100%	24.8	\$ 19,032	11.7	100%	20.1	2.7	100%	1,520.7
Harrison	24.1	35%	167.2	\$ 23,309	18.4	70%	69.9	5.7	13%	1,131.3
Jackson	27.0	91%	63.7	\$ 22,527	20.6	96%	46.7	6.4	78%	1,403.4
Jefferson	6.3	11%	272.4	\$ 29,605	3.9	14%	145.9	2.3	8%	1,289.0
Kanawha	120.3	63%	211.6	\$ 28,174	39.8	82%	59.4	80.5	57%	1,622.8
Lewis	6.3	39%	42.3	\$ 21,175	6.3	55%	29.9	-	0%	1,775.3
Lincoln	21.4	99%	49.6	\$ 18,458	21.4	99%	49.6			
Logan	35.7	98%	80.4	\$ 19,901	25.2	97%	58.1	10.5	100%	1,311.9
McDowell	5.9	29%	38.3	\$ 14,093	5.9	34%	33.1	-	0%	1,749.8
Marion	16.8	30%	183.0	\$ 23,229	15.0	63%	84.0	1.8	6%	1,264.1
Marshall	12.8	40%	105.5	\$ 24,329	11.3	70%	53.8	1.5	9%	2,172.1
Mason	25.2	91%	64.3	\$ 20,622	17.2	94%	43.2	8.0	85%	1,431.9
Mercer	31.9	51%	148.8	\$ 20,391	18.0	71%	65.7	13.9	38%	1,155.6
Mineral	19.8	69%	86.8	\$ 19,788	16.9	91%	58.0	2.8	29%	1,785.9
Mingo	26.2	99%	62.5	\$ 20,609	23.6	99%	56.5	2.6	99%	1,875.9
Monongalia	13.7	14%	279.9	\$ 25,846	7.9	30%	80.6	5.8	8%	1,994.6
Monroe	13.3	99%	28.4	\$ 20,294	11.8	99%	25.3	1.5	100%	1,270.5
Morgan	6.6	36%	79.9	\$ 22,312	6.6	36%	79.9			
Nicholas	14.9	57%	40.6	\$ 23,209	14.9	65%	35.5	-	0%	1,128.1
Ohio	5.7	13%	412.4	\$ 26,135	3.8	35%	128.8	1.9	6%	1,473.9
Pendleton	6.1	81%	10.8	\$ 21,253	6.1	81%	10.8			
Pleasants	6.8	90%	58.2	\$ 21,312	4.1	95%	33.4	2.7	83%	1,895.7
Pocahontas	8.5	100%	9.1	\$ 20,373	8.5	100%	9.1			
Preston	32.7	94%	53.7	\$ 21,457	29.8	95%	48.6	2.9	84%	1,501.5
Putnam	26.5	47%	164.9	\$ 27,957	13.3	65%	63.7	13.3	36%	1,457.1
Raleigh	63.6	80%	130.8	\$ 21,837	24.5	80%	55.2	39.1	81%	992.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Randolph	29.6	100%	28.5	\$ 19,595	18.7	100%	18.1	10.9	100%	1,785.7
Ritchie	10.4	100%	23.0	\$ 17,843	10.4	100%	23.0			
Roane	13.0	88%	30.4	\$ 17,341	11.5	98%	24.5	1.5	50%	1,464.9
Summers	13.9	100%	38.8	\$ 17,416	10.0	100%	28.0	3.9	99%	2,156.5
Taylor	9.9	58%	99.3	\$ 20,848	7.6	76%	59.4	2.3	32%	1,556.8
Tucker	7.0	100%	16.7	\$ 21,126	7.0	100%	16.7			
Tyler	8.5	95%	35.1	\$ 20,704	7.9	96%	32.1	0.6	82%	3,000.1
Upshur	24.5	100%	69.1	\$ 19,498	16.0	100%	45.8	8.5	100%	1,381.3
Wayne	33.8	80%	83.5	\$ 19,497	25.0	89%	57.3	8.8	63%	910.5
Webster	3.9	43%	16.2	\$ 17,937	3.9	43%	16.2			
Wetzel	14.4	89%	45.0	\$ 21,653	8.3	98%	23.8	6.1	79%	2,212.9
Wirt	5.1	91%	24.3	\$ 21,852	5.1	91%	24.3			
Wood	53.8	62%	237.1	\$ 24,042	17.9	73%	75.7	35.8	57%	1,449.0
Wyoming	8.1	35%	46.5	\$ 18,377	8.1	39%	41.5	0.0	0%	1,563.0
<b>Wisconsin</b>	<b>961.7</b>	<b>17%</b>	<b>106.8</b>		<b>909.9</b>	<b>53%</b>	<b>32.7</b>	<b>51.8</b>	<b>1%</b>	<b>2,166.5</b>
Adams	12.0	57%	32.8	\$ 22,196	12.0	57%	32.8			
Ashland	6.1	39%	15.1	\$ 21,115	6.1	68%	8.6	-	0%	1,575.1
Barron	16.9	37%	53.1	\$ 23,337	16.9	56%	35.4	-	0%	1,406.5
Bayfield	5.1	34%	10.0	\$ 25,377	5.1	34%	10.0			
Brown	17.1	7%	481.8	\$ 27,787	13.2	35%	88.6	4.0	2%	2,021.1
Buffalo	10.5	78%	20.0	\$ 24,500	10.5	78%	20.0			
Burnett	15.2	100%	18.5	\$ 22,843	15.2	100%	18.5			
Calumet	4.8	9%	160.9	\$ 28,907	4.8	37%	43.8	-	0%	1,943.7
Chippewa	15.1	23%	64.2	\$ 24,628	13.4	45%	30.6	1.8	5%	1,005.4
Clark	23.4	67%	28.8	\$ 20,754	23.4	73%	26.4	0.0	0%	2,375.0
Columbia	22.0	38%	75.7	\$ 28,273	19.5	56%	46.6	2.5	11%	1,905.2
Crawford	9.3	57%	28.7	\$ 22,549	9.1	90%	18.0	0.2	3%	1,526.7
Dane	24.2	5%	424.9	\$ 33,712	24.1	39%	59.6	0.1	0%	2,715.0
Dodge	19.7	22%	102.0	\$ 24,573	19.7	46%	50.4	-	0%	2,491.2
Door	9.0	32%	57.9	\$ 30,657	9.0	47%	40.5	-	0%	1,565.7
Douglas	12.5	28%	33.9	\$ 25,129	12.5	72%	13.4	-	0%	1,867.4
Dunn	13.9	31%	52.9	\$ 22,499	13.9	52%	31.7	0.0	0%	1,579.1
Eau Claire	12.9	13%	157.5	\$ 25,287	12.9	56%	38.4	-	0%	2,041.1
Florence	2.2	53%	8.5	\$ 22,434	2.2	53%	8.5			
Fond du Lac	19.5	19%	142.9	\$ 26,368	19.5	54%	52.5	0.0	0%	1,981.9
Forest	6.6	73%	8.9	\$ 20,462	6.6	73%	8.9			
Grant	30.9	60%	44.8	\$ 21,705	18.8	57%	28.8	12.2	65%	2,393.3
Green	15.2	40%	64.9	\$ 27,060	15.1	65%	40.1	0.0	0%	2,340.6
Green Lake	6.0	32%	53.9	\$ 25,275	6.0	43%	40.1	-	0%	2,110.5
Iowa	8.3	35%	31.3	\$ 26,625	8.3	44%	24.9	-	0%	1,616.7
Iron	2.8	52%	7.3	\$ 23,324	2.8	76%	5.0	-	0%	1,041.6
Jackson	13.0	63%	21.0	\$ 21,849	13.0	86%	15.3	-	0%	1,062.9
Jefferson	13.5	16%	155.3	\$ 25,625	13.5	47%	54.5	0.0	0%	2,055.6



## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Juneau	15.8	58%	35.5	\$ 23,343	15.1	67%	29.6	0.7	15%	1,802.6
Kenosha	3.0	2%	632.1	\$ 26,514	2.9	16%	88.4	0.0	0%	2,246.9
Kewaunee	4.1	20%	59.9	\$ 25,282	4.1	27%	43.8	-	0%	1,796.4
La Crosse	7.7	7%	258.2	\$ 26,271	7.7	40%	48.1	0.1	0%	2,025.6
Lafayette	10.2	60%	26.6	\$ 23,483	10.2	60%	26.6			
Langlade	9.7	50%	22.4	\$ 22,974	9.7	84%	13.3	-	0%	1,908.9
Lincoln	9.4	33%	32.2	\$ 24,669	9.2	60%	17.7	0.2	1%	1,273.0
Manitowoc	4.4	5%	137.1	\$ 25,825	4.4	14%	56.0	0.0	0%	1,858.8
Marathon	32.5	24%	88.6	\$ 27,607	32.5	56%	39.1	-	0%	1,621.6
Marinette	22.8	56%	29.2	\$ 23,555	21.0	83%	18.2	1.7	11%	1,528.0
Marquette	9.3	61%	33.6	\$ 23,490	9.3	61%	33.6			
Menominee	4.1	100%	11.4	\$ 14,710	4.1	100%	11.4			
Milwaukee	0.1	0%	3,948.4	\$ 24,295	0.1	7%	112.5	-	0%	4,241.6
Monroe	19.2	42%	51.0	\$ 23,456	19.2	72%	29.9	-	0%	1,846.8
Oconto	24.3	64%	38.1	\$ 25,941	21.7	70%	31.2	2.7	38%	1,557.1
Oneida	12.1	34%	31.9	\$ 27,041	12.1	46%	24.1	-	0%	1,013.8
Outagamie	12.0	7%	285.1	\$ 28,186	11.7	26%	79.9	0.3	0%	2,077.6
Ozaukee	2.9	3%	374.9	\$ 42,041	2.5	11%	114.7	0.4	1%	1,540.3
Pepin	7.2	96%	32.4	\$ 24,367	7.2	96%	32.4			
Pierce	19.2	45%	73.8	\$ 27,462	18.3	81%	39.9	0.9	5%	2,121.1
Polk	25.3	56%	49.1	\$ 25,751	22.5	59%	42.3	2.8	43%	1,061.2
Portage	18.3	26%	88.6	\$ 24,972	18.3	72%	32.8	-	0%	1,823.1
Price	10.5	78%	10.7	\$ 23,723	10.5	78%	10.7			
Racine	5.8	3%	595.2	\$ 27,141	5.7	23%	94.4	0.1	0%	2,342.3
Richland	9.1	50%	30.6	\$ 22,778	9.1	70%	22.2	-	0%	1,846.0
Rock	9.3	6%	226.5	\$ 24,094	9.3	28%	50.3	0.0	0%	2,119.0
Rusk	8.6	59%	15.8	\$ 21,004	8.6	77%	12.2	-	0%	1,254.8
St. Croix	46.4	51%	125.8	\$ 32,220	33.8	72%	67.6	12.6	29%	1,802.6
Sauk	16.4	26%	77.2	\$ 25,988	16.4	56%	36.1	0.0	0%	1,827.2
Sawyer	7.8	47%	13.2	\$ 23,809	7.8	57%	11.0	-	0%	997.7
Shawano	22.1	53%	47.0	\$ 23,500	21.3	68%	35.1	0.8	7%	1,700.4
Sheboygan	9.2	8%	227.4	\$ 26,126	9.1	28%	69.3	0.0	0%	2,135.1
Taylor	14.4	69%	21.4	\$ 23,032	14.3	85%	17.3	0.0	1%	1,584.0
Trempealeau	29.2	100%	39.9	\$ 25,017	26.1	100%	35.7	3.2	100%	1,501.5
Vernon	23.4	78%	38.2	\$ 22,680	23.2	89%	33.0	0.2	5%	1,879.1
Vilas	11.0	52%	24.6	\$ 26,252	11.0	52%	24.6			
Walworth	15.7	15%	188.9	\$ 27,130	12.5	35%	70.5	3.2	5%	1,432.9
Washburn	8.7	56%	19.8	\$ 24,850	8.7	67%	16.5	-	0%	1,579.5
Washington	10.2	7%	316.7	\$ 32,020	10.2	24%	112.4	0.0	0%	1,583.5
Waukesha	2.9	1%	723.4	\$ 37,577	2.6	7%	135.5	0.3	0%	1,344.0
Waupaca	20.6	39%	69.9	\$ 25,956	20.6	61%	46.1	-	0%	1,605.3
Waushara	13.2	54%	38.7	\$ 22,888	13.2	62%	34.3	-	0%	1,561.3
Winnebago	9.0	5%	392.0	\$ 26,955	9.0	39%	61.8	-	0%	2,314.7
Wood	16.7	22%	93.6	\$ 25,961	16.1	59%	35.5	0.6	1%	1,481.1

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
<b>Wyoming</b>	<b>175.2</b>	<b>30%</b>	<b>6.0</b>		<b>152.3</b>	<b>74%</b>	<b>2.1</b>	<b>22.8</b>	<b>6%</b>	<b>1,942.9</b>
Albany	2.8	7%	8.8	\$ 24,758	2.8	63%	1.0	0.0	0%	1,800.3
Big Horn	7.8	68%	3.7	\$ 25,119	7.8	68%	3.7			
Campbell	12.3	25%	10.5	\$ 33,850	12.1	83%	3.0	0.2	1%	1,436.0
Carbon	5.3	33%	2.0	\$ 25,947	5.3	79%	0.9	-	0%	2,003.7
Converse	10.6	73%	3.4	\$ 30,941	4.1	51%	1.9	6.5	100%	2,021.6
Crook	7.5	100%	2.6	\$ 28,212	7.5	100%	2.6			
Fremont	19.2	46%	4.5	\$ 24,037	19.0	89%	2.3	0.2	1%	2,093.0
Goshen	13.3	100%	6.0	\$ 23,475	6.2	100%	2.8	7.0	100%	2,048.7
Hot Springs	1.4	29%	2.4	\$ 26,544	1.4	92%	0.8	-	0%	1,411.0
Johnson	3.1	33%	2.2	\$ 28,072	3.1	68%	1.1	-	0%	1,968.9
Laramie	13.4	14%	35.2	\$ 28,505	13.4	69%	7.3	-	0%	2,139.2
Lincoln	15.6	81%	4.7	\$ 25,834	12.4	77%	4.0	3.1	100%	2,115.9
Natrona	1.9	2%	14.6	\$ 29,877	1.9	16%	2.2	-	0%	2,192.4
Niobrara	2.5	100%	0.9	\$ 26,797	2.5	100%	0.9			
Park	11.2	39%	4.2	\$ 27,824	11.1	86%	1.9	0.1	0%	1,827.6
Platte	8.4	100%	4.0	\$ 26,335	4.9	100%	2.4	3.5	100%	1,310.6
Sheridan	6.0	20%	11.9	\$ 27,948	5.9	55%	4.3	0.0	0%	1,464.4
Sublette	9.8	83%	2.4	\$ 35,944	9.8	83%	2.4			
Sweetwater	5.7	12%	4.4	\$ 30,517	3.7	82%	0.4	2.0	5%	2,226.3
Teton	4.1	18%	5.6	\$ 43,444	4.1	40%	2.5	-	0%	2,978.9
Uinta	9.0	41%	10.4	\$ 25,513	8.8	93%	4.6	0.2	1%	1,748.7
Washakie	2.2	26%	3.8	\$ 28,308	2.2	71%	1.4	-	0%	2,481.6
Weston	2.4	37%	2.7	\$ 28,764	2.4	78%	1.3	-	0%	1,458.5
<b>American Samoa</b>	<b>54.9</b>	<b>100%</b>	<b>718.4</b>		<b>13.3</b>	<b>100%</b>	<b>286.8</b>	<b>41.6</b>	<b>100%</b>	<b>1,383.3</b>
Eastern	30.1	100%	1,170.6		4.1	100%	393.7	26.0	100%	1,705.6
Manu'a	4.9	100%	217.8		4.9	100%	217.8			
Rose Island	0.0	100%	126.2		0.0	100%	126.2			
Swains Island	0.1	100%	125.6		0.1	100%	125.6			
Western	19.9	100%	722.6		4.2	100%	332.4	15.7	100%	1,053.7
<b>Guam</b>	<b>159.9</b>	<b>100%</b>	<b>762.0</b>		<b>52.2</b>	<b>100%</b>	<b>361.4</b>	<b>107.6</b>	<b>100%</b>	<b>1,649.2</b>
<b>Northern Mariana Islands</b>	<b>51.4</b>	<b>100%</b>	<b>281.7</b>		<b>17.5</b>	<b>100%</b>	<b>112.6</b>	<b>33.8</b>	<b>100%</b>	<b>1,264.5</b>
Northern Islands	7.6	100%	123.7		7.6	100%	123.7			
Rota	4.4	100%	133.7		4.4	100%	133.7			
Saipan	34.6	100%	753.8		4.1	100%	180.0	30.5	100%	1,328.5
Tinian	4.7	100%	113.3		1.4	100%	35.6	3.4	100%	881.6
<b>Puerto Rico</b>	<b>2,258.9</b>	<b>61%</b>	<b>1,077.7</b>		<b>752.4</b>	<b>78%</b>	<b>555.2</b>	<b>1,506.4</b>	<b>55%</b>	<b>1,622.6</b>
Adjuntas	86.6	94%	1,382.7	\$ 7,235	81.1	99%	1,391.3	5.5	54%	1,317.5
Aguada	4.5	5%	2,929.5	\$ 8,452	0.0	100%		4.5	5%	2,929.4
Aguadilla	2.4	7%	953.1	\$ 9,184	0.0	100%	38.5	2.4	7%	958.3
Aguas Buenas	28.2	100%	937.4	\$ 8,058	2.2	100%	212.6	26.0	100%	1,306.4

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Aibonito	10.1	100%	323.5	\$ 8,955	2.0	100%	127.0	8.2	100%	517.2
Añasco	47.6	78%	1,557.5	\$ 7,892	45.2	98%	1,821.2	2.4	16%	1,084.2
Arecibo	71.9	76%	751.5	\$ 9,529	42.1	100%	574.5	29.8	57%	997.5
Arroyo	3.4	33%	669.3	\$ 8,208	1.7	100%	298.8	1.7	20%	889.7
Barceloneta	12.8	89%	771.4	\$ 7,877	6.0	97%	933.3	6.8	82%	683.7
Barranquitas	18.8	100%	549.4	\$ 7,287	1.8	100%	387.3	17.0	100%	574.5
Bayamón	45.7	49%	2,090.6	\$ 12,648	0.2	100%	2,088.9	45.5	49%	2,090.6
Cabo Rojo	6.2	18%	479.4	\$ 9,257	4.6	82%	180.1	1.6	6%	718.5
Caguas	85.6	82%	1,772.5	\$ 12,852	0.5	98%	89.3	85.1	82%	1,953.4
Camuy	11.0	98%	242.1	\$ 9,112	1.6	99%	68.7	9.4	98%	421.1
Canóvanas	16.2	100%	493.4	\$ 10,473	0.9	100%	144.4	15.2	100%	579.1
Carolina	29.5	64%	1,020.4	\$ 14,605	0.6	99%	110.0	28.9	63%	1,145.2
Cataño	10.9	97%	2,325.3	\$ 10,567	0.8	100%	12,672.3	10.1	97%	2,196.8
Cayey	84.2	100%	1,621.1	\$ 11,986	14.6	100%	511.5	69.6	100%	2,982.4
Ceiba	14.1	100%	486.6	\$ 9,444	7.0	100%	322.0	7.1	100%	980.9
Ciales	15.8	100%	238.1	\$ 6,488	9.9	100%	175.3	5.9	100%	591.3
Cidra	47.5	99%	1,326.3	\$ 11,341	1.5	100%	279.4	46.0	99%	1,516.6
Coamo	34.0	69%	628.5	\$ 8,912	30.4	89%	576.4	3.6	24%	793.1
Comerio	17.1	43%	1,399.7	\$ 6,803	1.0	74%	111.6	16.1	42%	2,421.6
Corozal	15.5	100%	363.7	\$ 7,879	0.6	100%	59.0	14.9	100%	456.9
Culebra	6.7	100%	573.0	\$ 8,142	6.7	100%	573.0			
Dorado	13.4	85%	684.0	\$ 14,374	0.2	93%	82.4	13.2	85%	760.7
Fajardo	16.6	89%	623.5	\$ 10,703	1.2	100%	91.2	15.5	89%	1,013.2
Florida	2.5	98%	171.4	\$ 7,184	0.3	100%	33.3	2.3	97%	355.4
Guánica	3.4	30%	313.6	\$ 6,731	3.0	73%	133.8	0.5	6%	1,105.1
Guayama	8.6	30%	446.1	\$ 9,116	6.5	88%	158.9	2.1	10%	1,164.4
Guayanilla	18.1	6%	6,664.3	\$ 7,532	7.6	76%	359.9	10.5	4%	18,513.1
Guaynabo	33.5	68%	1,796.9	\$ 21,584	0.0	100%	21.6	33.5	68%	1,802.9
Gurabo	62.3	100%	2,232.9	\$ 13,898	0.8	100%	2,209.8	61.4	100%	2,233.2
Hatillo	11.1	98%	270.1	\$ 9,428	1.0	100%	59.8	10.0	98%	415.8
Hormigueros	0.2	1%	1,752.0	\$ 10,609	0.0	5%	82.1	0.2	1%	2,667.8
Humacao	26.8	100%	599.7	\$ 10,927	0.6	100%	71.4	26.3	100%	711.7
Isabela	28.3	52%	976.3	\$ 8,067	11.2	99%	454.1	17.1	40%	1,407.6
Jayuya	10.2	50%	459.5	\$ 7,879	7.5	80%	273.0	2.7	25%	1,104.7
Juana Díaz	9.6	31%	512.9	\$ 8,325	3.6	34%	327.2	6.0	30%	737.1
Juncos	20.5	100%	772.8	\$ 9,404	6.7	100%	1,299.8	13.8	100%	646.3
Lajas	4.4	24%	305.2	\$ 6,715	3.4	73%	108.1	1.1	8%	796.1
Lares	20.7	100%	336.5	\$ 6,609	3.5	100%	87.1	17.1	100%	822.0
Las Marías	20.6	53%	836.6	\$ 7,000	19.7	80%	575.0	1.0	7%	3,845.0
Las Piedras	46.6	100%	1,374.5	\$ 9,386	3.8	100%	580.4	42.8	100%	1,564.3
Loíza	12.2	94%	668.2	\$ 8,739	1.7	100%	193.8	10.5	93%	1,072.0
Luquillo	10.7	100%	413.6	\$ 10,408	2.6	100%	195.5	8.1	100%	639.0
Manatí	29.3	83%	784.5	\$ 9,886	14.3	100%	608.5	15.0	71%	976.7
Maricao	23.9	99%	655.4	\$ 6,368	19.8	99%	564.2	4.1	100%	3,119.7

## Appendix E

### Americans Without Access to Fixed 25 Mbps/3 Mbps Broadband by County

	All Areas				Rural Areas			Urban Areas		
	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Per Capita Income (2013 Inflation Adjusted Dollars)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)	Population Without Access (1,000s)	Percentage of Population	Population Density (Population/Land Area)
Maunabo	9.6	79%	579.1	\$ 8,134	2.8	89%	204.9	6.8	75%	1,631.7
Mayagüez	9.8	14%	912.2	\$ 9,591	3.1	79%	101.0	6.7	10%	1,737.2
Moca	8.3	27%	621.4	\$ 7,701	2.4	47%	224.6	6.0	23%	937.5
Morovis	73.4	100%	1,890.8	\$ 7,060	3.2	97%	161.7	70.2	100%	3,800.8
Naguabo	133.7	100%	2,587.6	\$ 9,058	122.2	100%	3,655.8	11.5	100%	630.7
Naranjito	31.9	98%	1,191.5	\$ 8,895				31.9	98%	1,191.5
Orocovis	46.7	97%	756.3	\$ 6,668	38.0	97%	836.0	8.6	98%	530.1
Patillas	6.0	44%	289.3	\$ 7,851	5.0	74%	186.3	1.0	14%	646.7
Peñuelas	11.4	56%	454.7	\$ 6,808	9.0	93%	288.7	2.4	23%	958.0
Ponce	38.8	13%	2,618.1	\$ 10,088	18.8	10%	2,772.2	20.0	18%	2,387.8
Quebradillas	0.5	4%	549.9	\$ 7,348	0.2	5%	421.9	0.3	4%	615.9
Rincón	4.7	19%	1,717.1	\$ 8,978	0.0	100%		4.7	19%	1,716.4
Río Grande	85.5	100%	1,410.8	\$ 10,552	1.5	100%	56.3	84.1	100%	2,418.4
Sabana Grande	6.0	35%	480.4	\$ 8,049	5.5	87%	328.7	0.5	4%	658.6
Salinas	14.1	46%	445.7	\$ 7,759	11.3	84%	223.9	2.8	16%	1,883.3
San Germán	20.3	40%	935.7	\$ 9,054	12.0	83%	611.8	8.3	23%	1,184.2
San Juan	88.0	40%	4,556.8	\$ 16,674	0.1	100%	20,019.5	87.9	40%	4,555.6
San Lorenzo	20.8	100%	391.9	\$ 9,929	1.3	100%	62.1	19.5	100%	611.2
San Sebastián	60.0	80%	1,060.5	\$ 7,174	8.4	94%	313.9	51.5	78%	1,566.4
Santa Isabel	12.0	47%	747.0	\$ 9,412	3.5	78%	185.0	8.5	41%	2,175.3
Toa Alta	21.2	93%	842.2	\$ 12,584				21.2	93%	842.2
Toa Baja	24.5	80%	1,326.7	\$ 11,562	0.8	99%	329.6	23.8	79%	1,437.5
Trujillo Alto	14.5	47%	1,490.4	\$ 14,915				14.5	47%	1,490.4
Utuado	110.1	100%	969.9	\$ 7,408	16.4	100%	164.2	93.7	100%	6,820.3
Vega Alta	32.6	99%	1,190.4	\$ 9,257	2.3	100%	551.5	30.4	99%	1,301.0
Vega Baja	54.2	100%	1,181.4	\$ 9,017	11.2	100%	627.9	43.0	100%	1,531.3
Vieques	18.8	100%	369.4	\$ 8,370	10.2	100%	224.8	8.5	100%	1,639.9
Villalba	52.3	78%	1,882.0	\$ 7,997	21.9	99%	1,080.5	30.5	68%	2,962.0
Yabucoa	35.2	100%	638.3	\$ 7,956	8.0	100%	257.0	27.2	100%	1,135.1
Yauco	54.2	64%	1,238.3	\$ 7,491	51.6	98%	1,007.2	2.6	8%	1,990.1
<b>U.S. Virgin Islands</b>	<b>46.8</b>	<b>45%</b>	<b>782.7</b>		<b>44.6</b>	<b>72%</b>	<b>866.1</b>	<b>2.1</b>	<b>5%</b>	<b>687.1</b>
St. Croix	4.4	12%	444.5		4.4	24%	387.8	0.0	0%	522.0
St. John	12.5	72%	881.0		12.5	85%	883.5	0.0	0%	867.6
St. Thomas	29.8	59%	1,620.6		27.7	96%	4,105.9	2.1	10%	903.6