

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
United States	33,981,660	10%	91.57	.	10,551,623	4%	2,437.73	23,430,037	39%	17.478
Alabama	985,263	20%	96.963	.	169,154	6%	1,333.15	816,109	41%	40.636
Autauga County	13,199	22%	99.21	\$24,644	360	1%	1,768.82	12,839	53%	42.144
Baldwin County	55,717	27%	128.37	\$26,851	22,041	19%	1,117.57	33,676	39%	57.575
Barbour County	13,236	51%	29.563	\$17,350	608	7%	1,264.44	12,628	72%	20.09
Bibb County	22,772	98%	37.203	\$18,110	7,323	98%	1,022.80	15,449	98%	25.512
Blount County	27,824	46%	93.378	\$20,501	681	11%	1,421.62	27,143	50%	84.672
Bullock County	10,251	100%	16.459	\$17,706	5,153	100%	1,052.90	5,098	100%	8.25
Butler County	10,049	50%	25.751	\$18,115	455	8%	1,478.71	9,594	68%	18.126
Calhoun County	10,501	9%	197.608	\$21,306	2,119	3%	971.596	8,382	20%	77.928
Chambers County	5,422	17%	52.906	\$21,240	.	.	765.925	5,422	35%	26.69
Cherokee County	15,190	60%	45.906	\$22,234	261	7%	360.954	14,929	69%	39.993
Chilton County	33,632	75%	64.586	\$21,718	2,315	40%	858.937	31,317	80%	56.853
Choctaw County	10,526	85%	13.603	\$21,268	.	.	.	10,526	85%	13.603
Clarke County	11,545	48%	19.376	\$20,022	350	6%	808.214	11,195	61%	14.856
Clay County	8,122	63%	21.294	\$18,957	.	.	.	8,122	63%	21.294
Cleburne County	14,974	100%	26.763	\$19,736	.	.	.	14,974	100%	26.763
Coffee County	6,847	13%	78.121	\$24,204	.	.	1,327.85	6,847	28%	37.256
Colbert County	12,106	23%	89.113	\$21,763	669	2%	1,109.81	11,437	49%	41.336
Conecuh County	8,158	68%	14.169	\$15,441	51	2%	1,107.00	8,107	84%	11.383
Coosa County	2,218	21%	16.286	\$17,749	.	.	.	2,218	21%	16.286
Covington County	35,855	98%	35.669	\$20,941	10,913	99%	1,097.20	24,942	97%	25.244
Crenshaw County	5,671	43%	21.538	\$20,366	.	.	.	5,671	43%	21.538
Cullman County	22,542	27%	112.541	\$21,105	.	.	885.587	22,542	37%	85.576
Dale County	4,429	9%	88.413	\$22,368	241	1%	821.858	4,188	17%	47.152
Dallas County	7,046	17%	43.31	\$17,614	.	.	1,407.96	7,046	38%	19.364
DeKalb County	11,313	16%	91.719	\$18,416	.	.	1,639.44	11,313	18%	83.055
Elmore County	10,634	12%	137.775	\$24,185	2,657	7%	1,185.36	7,977	18%	77.791
Escambia County	14,317	39%	38.51	\$16,673	416	3%	1,182.74	13,901	60%	24.732
Etowah County	7,996	8%	193.16	\$20,445	843	1%	867.353	7,153	18%	84.937
Fayette County	15,808	100%	25.186	\$19,040	3,201	100%	1,136.08	12,607	100%	20.176
Franklin County	10,258	33%	49.511	\$18,559	.	.	1,416.45	10,258	48%	34.377
Geneva County	14,308	57%	44.051	\$20,027	329	13%	1,081.98	13,979	62%	39.678
Greene County	8,036	99%	12.491	\$13,956	.	.	.	8,036	99%	12.491
Hale County	6,047	41%	22.74	\$18,774	.	.	731.942	6,047	46%	20.336
Henry County	8,427	51%	29.449	\$22,682	55	3%	1,290.76	8,372	58%	25.768
Houston County	15,193	14%	187.307	\$23,492	391	1%	1,345.94	14,802	41%	69.176
Jackson County	6,407	13%	46.828	\$20,055	.	.	901.651	6,407	17%	36.349
Jefferson County	41,205	6%	585.627	\$26,896	28,952	5%	1,460.79	12,253	19%	90.564
Lamar County	8,799	68%	21.528	\$19,094	.	.	.	8,799	68%	21.528
Lauderdale County	30,528	32%	142.196	\$23,975	4,847	10%	1,327.73	25,681	55%	74.027
Lawrence County	13,142	40%	47.274	\$21,093	.	.	859.15	13,142	44%	43.305
Lee County	4,246	3%	253.898	\$24,126	53	0%	1,449.40	4,193	10%	78.402
Limestone County	8,585	9%	164.837	\$25,658	299	1%	1,002.07	8,286	16%	102.181
Lowndes County	9,205	90%	14.305	\$18,046	.	.	.	9,205	90%	14.305
Macon County	6,818	34%	32.696	\$17,113	.	.	919.886	6,818	62%	18.294
Madison County	26,893	7%	456.649	\$32,307	13,308	4%	1,525.42	13,585	23%	97.577
Marengo County	17,268	90%	19.615	\$22,529	6,078	100%	1,200.39	11,190	86%	13.463
Marion County	25,511	88%	38.89	\$20,125	3,253	100%	689.028	22,258	87%	34.729
Marshall County	5,406	5%	174.71	\$20,975	.	.	1,120.29	5,406	10%	98.903
Mobile County	44,842	10%	348.316	\$23,009	20,951	6%	1,501.91	23,891	28%	85.651
Monroe County	10,028	47%	20.697	\$16,273	58	1%	870.425	9,970	60%	16.416
Montgomery County	7,143	3%	301.395	\$25,089	914	0%	1,969.65	6,229	27%	34.403
Morgan County	13,025	11%	213.209	\$24,222	115	0%	1,233.99	12,910	27%	91.102
Perry County	9,579	100%	13.31	\$12,988	.	.	.	9,579	100%	13.31
Pickens County	17,971	98%	20.803	\$17,310	.	.	.	17,971	98%	20.803
Pike County	3,409	10%	48.812	\$19,424	197	1%	1,350.19	3,212	20%	24.653
Randolph County	13,305	61%	37.783	\$19,324	.	.	951.535	13,305	74%	31.068
Russell County	4,320	8%	86.251	\$19,652	.	.	1,520.10	4,320	23%	31.087
St. Clair County	35,330	37%	149.134	\$23,863	12,313	47%	1,076.23	23,017	34%	112.26
Shelby County	19,865	9%	279.892	\$33,135	3,291	2%	1,365.12	16,574	35%	72.283
Sumter County	7,491	58%	14.331	\$14,042	.	.	.	7,491	58%	14.331

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	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Talladega County	21,169	26%	109.548	\$19,134	66	0%	897.487	21,103	47%	64.253
Tallapoosa County	3,131	8%	56.689	\$21,034	116	1%	1,008.09	3,015	10%	42.5
Tuscaloosa County	20,786	10%	158.8	\$23,124	11,303	7%	1,619.97	9,483	18%	43.514
Walker County	17,808	28%	81.485	\$20,580	.	.	665.151	17,808	37%	62.55
Washington County	14,366	87%	15.288	\$20,737	.	.	.	14,366	87%	15.288
Wilcox County	7,570	68%	12.455	\$13,881	.	.	.	7,570	68%	12.455
Winston County	19,943	85%	38.363	\$19,078	1,608	47%	960.012	18,335	91%	32.941
Alaska	194,375	26%	1.312	.	26,389	5%	1,915.57	167,986	67%	0.439
Aleutians East Borough	2,501	100%	0.358	\$27,122	.	.	.	2,501	100%	0.358
Aleutians West Census Area	4,241	100%	0.966	\$32,700	.	.	.	4,241	100%	0.966
Anchorage Municipality	2,733	1%	180.274	\$36,508	655	0%	2,906.12	2,078	16%	8.054
Bethel Census Area	16,679	100%	0.411	\$18,875	4,481	100%	1,850.00	12,198	100%	0.301
Bristol Bay Borough	809	100%	1.606	\$37,012	.	.	.	809	100%	1.606
Denali Borough	1,725	100%	0.135	\$36,828	.	.	.	1,725	100%	0.135
Dillingham Census Area	4,566	100%	0.246	\$21,774	.	.	.	4,566	100%	0.246
Fairbanks North Star Borough	16,521	16%	14.033	\$32,906	747	1%	1,145.93	15,774	48%	4.49
Haines Borough	2,519	100%	1.086	\$32,312	.	.	.	2,519	100%	1.086
Hoonah-Angoon Census Area	2,057	100%	0.273	\$30,811	.	.	.	2,057	100%	0.273
Juneau City and Borough	168	1%	11.986	\$38,057	.	.	1,809.01	168	2%	2.609
Kenai Peninsula Borough	28,544	49%	3.598	\$31,611	179	1%	958.28	28,365	62%	2.853
Ketchikan Gateway Borough	58	0%	2.968	\$31,494	.	.	1,883.77	58	2%	0.696
Kodiak Island Borough	13,562	100%	2.071	\$29,993	10,055	100%	2,915.50	3,507	100%	0.536
Lake and Peninsula Borough	1,514	100%	0.064	\$21,581	.	.	.	1,514	100%	0.064
Matanuska-Susitna Borough	29,034	27%	4.376	\$30,013	528	1%	1,027.68	28,506	53%	2.194
Nome Census Area	8,407	100%	0.366	\$19,651	2,844	100%	2,735.84	5,563	100%	0.242
North Slope Borough	9,614	100%	0.108	\$50,267	3,622	100%	4,555.71	5,992	100%	0.068
Northwest Arctic Borough	7,915	100%	0.223	\$21,543	3,278	100%	3,492.89	4,637	100%	0.13
Petersburg Census Area	3,739	100%	1.139	\$36,307	.	.	.	3,739	100%	1.139
Prince of Wales-Hyder Census Area	5,275	100%	1.345	\$24,737	.	.	.	5,275	100%	1.345
Sitka City and Borough	164	2%	3.109	\$33,920	.	.	1,745.06	164	9%	0.646
Skagway Municipality	804	100%	1.777	\$40,986	.	.	.	804	100%	1.777
Southeast Fairbanks Census Area	7,406	98%	0.306	\$30,402	.	.	.	7,406	98%	0.306
Valdez-Cordova Census Area	8,584	100%	0.251	\$32,610	.	.	.	8,584	100%	0.251
Wade Hampton Census Area	8,186	100%	0.479	\$11,257	.	.	.	8,186	100%	0.479
Wrangell City and Borough	1,952	100%	0.768	\$30,671	.	.	.	1,952	100%	0.768
Yakutat City and Borough	568	100%	0.074	\$33,475	.	.	.	568	100%	0.074
Yukon-Koyukuk Census Area	4,530	100%	0.031	\$20,149	.	.	.	4,530	100%	0.031
American Samoa	54,504	100%	712.881	.	41,307	100%	1,372.50	13,197	100%	284.665
Eastern	29,843	100%	1,161.59	.	25,748	100%	1,692.35	4,095	100%	390.848
Manu'a	4,815	100%	216.045	.	.	.	.	4,815	100%	216.045
Rose Island	4	100%	126.198	.	.	.	.	4	100%	126.198
Swains Island	117	100%	124.57	.	.	.	.	117	100%	124.57
Western	19,725	100%	717.107	.	15,559	100%	1,045.50	4,166	100%	329.992
Arizona	898,724	13%	60.439	.	487,930	8%	2,841.75	410,794	63%	5.85
Apache County	66,213	100%	5.913	\$12,828	18,593	100%	1,083.18	47,620	100%	4.259
Cochise County	47,975	36%	21.364	\$23,552	21,154	25%	1,978.64	26,821	58%	7.53
Cocconino County	51,345	39%	7.095	\$23,459	24,471	26%	1,965.35	26,874	69%	2.087
Gila County	20,088	38%	11.068	\$20,857	6,530	21%	1,599.25	13,558	63%	4.553
Graham County	12,210	31%	8.606	\$17,687	1,443	7%	1,541.55	10,767	59%	3.969
Greenlee County	3,469	40%	4.686	\$22,334	105	2%	1,448.22	3,364	89%	2.045
La Paz County	13,209	70%	4.17	\$21,772	5,185	62%	1,387.71	8,024	77%	2.318
Maricopa County	282,959	7%	448.856	\$27,477	230,803	6%	3,374.28	52,156	55%	11.882
Mohave County	41,876	20%	15.554	\$20,709	12,430	8%	1,737.05	29,446	66%	3.401
Navajo County	54,335	52%	10.42	\$16,355	13,159	27%	1,148.45	41,176	76%	5.473
Pima County	88,565	9%	113.077	\$25,524	53,539	6%	2,429.99	35,026	46%	8.7
Pinal County	126,647	28%	83.171	\$20,983	61,430	17%	2,968.25	65,217	72%	17.201
Santa Cruz County	9,657	19%	41.251	\$17,900	1,700	4%	1,456.89	7,957	66%	10.022
Yavapai County	43,597	19%	27.774	\$25,068	15,064	10%	1,662.90	28,533	40%	8.947
Yuma County	36,579	17%	38.735	\$18,887	22,324	12%	2,813.16	14,255	70%	3.721
Arkansas	744,572	25%	57.938	.	128,125	7%	1,588.83	616,447	48%	24.969
Arkansas County	15,519	93%	16.901	\$23,237	10,168	90%	1,539.23	5,351	99%	5.533

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Ashley County	8,949	44%	21.819	\$19,739	2,767	28%	917.338	6,182	60%	11,288
Baxter County	13,927	32%	79.387	\$21,693	445	3%	1,368.74	13,482	47%	53,228
Benton County	28,596	11%	306.505	\$27,522	3,410	2%	1,563.96	25,186	41%	85.51
Boone County	8,634	22%	65.652	\$21,348	51	0%	1,311.90	8,583	36%	41,549
Bradley County	10,479	100%	16.185	\$20,243	5,480	100%	888.534	4,999	99%	7,819
Calhoun County	4,575	96%	7.542	\$19,755	.	.	.	4,575	96%	7,542
Carroll County	8,115	29%	44.189	\$20,604	201	3%	1,355.27	7,914	40%	32,041
Chicot County	7,943	81%	15.285	\$19,311	2,662	60%	1,146.04	5,281	98%	8,396
Clark County	5,437	24%	25.993	\$18,709	834	8%	1,844.67	4,603	39%	13,742
Clay County	11,155	80%	21.729	\$18,434	4,488	74%	1,477.46	6,667	85%	12,328
Cleburne County	10,320	39%	47.696	\$24,297	130	2%	1,388.54	10,190	51%	36,129
Cleveland County	8,059	97%	13.93	\$21,666	.	.	.	8,059	97%	13,93
Columbia County	10,031	44%	29.642	\$19,893	503	5%	1,347.83	9,528	76%	16,596
Conway County	.	.	38.579	\$21,742	.	.	1,101.06	.	.	27,532
Craighead County	13,863	13%	149.087	\$23,244	3,823	5%	1,549.92	10,040	31%	49,482
Crawford County	9,433	14%	112.024	\$20,104	608	2%	1,663.25	8,825	26%	59,106
Crittenden County	10,166	20%	85.26	\$19,732	2,643	6%	1,851.86	7,523	79%	16,279
Cross County	3,835	23%	26.946	\$18,919	.	.	1,589.82	3,835	42%	15,035
Dallas County	1,479	22%	10.014	\$18,261	60	2%	786.924	1,419	42%	5,127
Desha County	10,528	95%	14.472	\$19,300	7,507	96%	1,371.25	3,021	93%	4,273
Drew County	17,820	100%	21.578	\$17,433	9,682	100%	995.508	8,138	99%	9,997
Faulkner County	3,589	3%	198.193	\$24,703	1,850	2%	1,779.33	1,739	4%	80,703
Franklin County	16,224	92%	29.002	\$20,021	2,838	89%	1,244.69	13,386	93%	23,853
Fulton County	11,090	96%	18.599	\$19,216	743	100%	964.24	10,347	96%	17,419
Garland County	2,704	3%	147.534	\$23,514	170	0%	1,159.19	2,534	7%	60,37
Grant County	3,639	20%	29.11	\$22,065	30	1%	1,344.02	3,609	26%	21,878
Greene County	13,328	30%	77.296	\$20,188	.	.	1,339.08	13,328	74%	32,403
Hempstead County	7,622	36%	29.139	\$17,866	11	0%	1,295.31	7,611	66%	16,083
Hot Spring County	16,690	50%	54.408	\$19,819	2,055	18%	1,195.63	14,635	66%	36,438
Howard County	10,515	85%	20.917	\$20,341	3,580	85%	1,244.42	6,935	85%	13,874
Independence County	16,379	44%	48.643	\$20,222	148	1%	1,266.63	16,231	64%	33,79
Izard County	12,504	100%	21.537	\$18,650	.	.	.	12,504	100%	21,537
Jackson County	4,813	29%	26.103	\$15,860	163	3%	1,264.37	4,650	43%	17,186
Jefferson County	21,214	29%	83.392	\$19,847	3,514	7%	1,360.94	17,700	80%	26,406
Johnson County	12,979	49%	40.218	\$18,993	233	3%	1,181.90	12,746	69%	28,447
Lafayette County	6,432	100%	12.176	\$17,707	.	.	.	6,432	100%	12,176
Lawrence County	9,069	56%	27.45	\$17,064	210	3%	1,632.64	8,859	88%	17,266
Lee County	4,711	52%	14.955	\$13,297	.	.	1,572.59	4,711	83%	9,416
Lincoln County	13,537	100%	24.108	\$14,501	.	.	.	13,537	100%	24,108
Little River County	11,988	100%	22.523	\$20,073	3,885	100%	1,086.18	8,103	100%	15,327
Logan County	21,458	100%	30.303	\$20,114	6,091	100%	1,321.10	15,367	100%	21,843
Lonoke County	18,895	24%	100.43	\$23,339	9,246	21%	1,479.12	9,649	29%	45,545
Madison County	11,577	69%	19.976	\$19,930	.	.	.	11,577	69%	19,976
Marion County	12,679	76%	28.082	\$17,429	.	.	.	12,679	76%	28,082
Miller County	6,730	15%	69.988	\$20,853	24	0%	1,272.83	6,706	37%	29,949
Mississippi County	10,813	24%	49.606	\$18,732	3,340	12%	1,951.94	7,473	48%	17,728
Monroe County	3,640	57%	10.579	\$17,571	.	.	981.84	3,640	82%	7,297
Montgomery County	2,335	26%	11.604	\$18,698	.	.	.	2,335	26%	11,604
Nevada County	4,428	57%	12.51	\$18,254	.	.	1,323.47	4,428	84%	8,549
Newton County	6,893	90%	9.368	\$18,127	.	.	.	6,893	90%	9,368
Ouachita County	8,046	34%	32.181	\$19,358	.	.	882.182	8,046	61%	18,196
Perry County	864	9%	18.134	\$22,534	.	.	.	864	9%	18,134
Phillips County	3,968	21%	26.994	\$17,848	412	4%	1,654.46	3,556	41%	12,483
Pike County	2,270	21%	17.792	\$18,695	.	.	.	2,270	21%	17,792
Poinsett County	11,141	47%	31.356	\$17,110	272	4%	1,852.46	10,869	66%	21,943
Polk County	16,604	84%	23.076	\$19,412	5,259	100%	1,108.06	11,345	78%	17,039
Pope County	8,854	13%	80.942	\$20,465	774	3%	1,400.53	8,080	23%	44,817
Prairie County	7,178	100%	11.121	\$18,977	.	.	.	7,178	100%	11,121
Pulaski County	18,468	5%	521.502	\$27,506	12,683	4%	1,955.69	5,785	12%	82,772
Randolph County	7,425	43%	26.638	\$19,528	202	3%	1,951.15	7,223	63%	17,646
St. Francis County	9,941	38%	41.432	\$16,076	.	.	2,325.05	9,941	78%	20,286
Saline County	13,849	11%	167.166	\$26,179	3,895	5%	1,309.56	9,954	23%	64,788

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Scott County	10,199	94%	12.164	\$18,525	3,119	96%	1,271.31	7,080	93%	8.536
Searcy County	1,484	19%	11.745	\$17,590	.	.	.	1,484	19%	11.745
Sebastian County	7,857	6%	245.889	\$23,768	1,796	2%	1,882.36	6,061	23%	55.293
Sevier County	2,313	13%	31.411	\$16,266	112	2%	1,639.70	2,201	20%	19.38
Sharp County	10,798	67%	26.61	\$16,906	.	.	467.736	10,798	83%	21.639
Stone County	12,703	100%	20.948	\$19,985	.	.	.	12,703	100%	20.948
Union County	11,329	29%	37.745	\$21,911	200	1%	1,193.03	11,129	53%	20.64
Van Buren County	10,357	60%	24.554	\$18,727	.	.	.	10,357	60%	24.554
Washington County	15,583	7%	239.104	\$24,018	4,902	3%	2,278.14	10,681	20%	61.33
White County	22,499	27%	80.184	\$22,132	586	2%	1,269.35	21,913	49%	44.563
Woodruff County	5,656	100%	9.639	\$17,296	.	.	.	5,656	100%	9.639
Yell County	7,848	35%	24.277	\$18,170	320	7%	1,926.47	7,528	43%	19.051
California	2,017,166	5%	248.178	.	920,182	2%	4,484.18	1,096,984	61%	12.226
Alameda County	.	.	2,088.78	\$36,439	.	.	5,670.80	.	.	11.495
Alpine County	800	90%	1.203	\$24,375	.	.	.	800	90%	1.203
Amador County	28,219	76%	62.644	\$27,373	8,037	54%	1,923.08	20,182	90%	38.206
Butte County	25,582	12%	134.692	\$24,430	3,659	2%	2,136.72	21,923	55%	25.768
Calaveras County	12,958	29%	43.925	\$29,296	369	3%	1,087.05	12,589	38%	33.223
Colusa County	13,693	66%	18.144	\$22,211	8,405	55%	3,073.51	5,288	93%	4.956
Contra Costa County	10,155	1%	1,496.41	\$38,770	8,002	1%	3,480.73	2,153	30%	17.236
Del Norte County	1,499	5%	29.24	\$19,424	.	.	1,663.76	1,499	16%	9.718
El Dorado County	41,344	23%	105.158	\$35,128	2,693	2%	1,578.81	38,651	64%	37.187
Fresno County	135,535	14%	165.969	\$20,231	52,848	6%	4,153.60	82,687	82%	17.631
Glenn County	9,347	34%	20.818	\$21,698	2,001	12%	1,953.99	7,346	68%	8.307
Humboldt County	26,824	21%	36.191	\$23,516	3,294	4%	2,021.37	23,530	63%	10.556
Imperial County	27,618	14%	46.136	\$16,409	4,600	3%	3,839.71	23,018	77%	7.188
Inyo County	4,664	28%	1.654	\$27,028	174	2%	2,198.66	4,490	60%	0.734
Kern County	145,082	16%	113.081	\$20,467	75,063	9%	3,796.32	70,019	83%	10.684
Kings County	48,172	30%	115.968	\$18,518	36,425	25%	3,683.48	11,747	74%	11.79
Lake County	8,985	14%	49.672	\$21,310	1,278	3%	1,620.44	7,707	40%	15.677
Lassen County	21,231	62%	7.551	\$19,847	934	9%	1,893.67	20,297	84%	5.338
Los Angeles County	58,377	1%	2,488.67	\$27,987	36,426	0%	7,058.30	21,951	39%	21.119
Madera County	52,015	32%	75.497	\$17,797	5,340	5%	2,824.69	46,675	94%	23.591
Marin County	8,837	3%	493.218	\$58,004	1,498	1%	2,972.16	7,339	45%	37.413
Mariposa County	17,501	100%	12.089	\$28,327	.	.	.	17,501	100%	12.089
Mendocino County	25,603	30%	24.137	\$23,712	2,754	6%	1,643.60	22,849	62%	10.631
Merced County	46,205	17%	138.909	\$18,464	17,763	8%	3,325.31	28,442	80%	19.179
Modoc County	7,173	89%	2.056	\$21,830	2,431	100%	1,275.90	4,742	84%	1.436
Mono County	12,492	89%	4.603	\$29,578	7,082	86%	2,478.93	5,410	93%	1.904
Monterey County	112,809	26%	131.058	\$25,048	98,229	25%	3,670.07	14,580	38%	11.987
Napa County	12,033	9%	186.964	\$35,092	4,788	4%	3,023.42	7,245	44%	23.491
Nevada County	27,214	28%	101.056	\$32,117	4,064	7%	1,204.39	23,150	57%	44.291
Orange County	57,658	2%	3,915.33	\$34,416	56,709	2%	5,900.61	949	22%	15.901
Placer County	46,071	12%	264.808	\$35,711	17,543	5%	2,282.70	28,528	60%	37.579
Plumas County	17,458	100%	6.838	\$29,167	4,639	100%	1,260.95	12,819	100%	5.028
Riverside County	98,430	4%	338.098	\$23,660	38,502	2%	3,291.36	59,928	58%	15.821
Sacramento County	32,794	2%	1,491.23	\$27,071	28,075	2%	4,285.30	4,719	17%	44.098
San Benito County	985	2%	39.59	\$26,317	8	0%	3,764.56	977	8%	8.638
San Bernardino County	93,590	4%	106.397	\$21,384	43,562	2%	3,273.93	50,028	59%	4.376
San Diego County	156,728	5%	760.091	\$31,043	106,259	3%	4,074.93	50,469	51%	28.84
San Francisco County	.	.	18,107.90	\$49,986	.	.	18,188.05	.	.	0
San Joaquin County	37,037	5%	507.679	\$22,642	11,082	2%	4,168.40	25,955	46%	45.639
San Luis Obispo County	36,849	13%	84.088	\$30,392	13,149	6%	2,387.01	23,700	53%	13.874
San Mateo County	3,028	0%	1,672.44	\$47,198	1,616	0%	5,232.01	1,412	11%	43.139
Santa Barbara County	32,031	7%	159.296	\$30,526	21,329	5%	3,920.07	10,702	53%	7.706
Santa Clara County	510	0%	1,472.15	\$42,666	.	.	5,683.96	510	3%	19.864
Santa Cruz County	.	.	604.079	\$33,050	.	.	3,007.13	.	.	83.593
Shasta County	40,845	24%	45.914	\$23,763	2,024	2%	1,636.33	38,821	81%	13.034
Sierra County	2,629	98%	2.803	\$28,030	.	.	985.429	2,629	99%	2.796
Siskiyou County	39,603	97%	6.531	\$22,482	14,811	100%	1,207.14	24,792	95%	4.18
Solano County	30,031	7%	490.452	\$29,132	21,275	5%	3,418.25	8,756	63%	19.736
Sonoma County	22,444	5%	307.34	\$33,361	8,064	2%	2,981.60	14,380	26%	38.41

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Stanislaus County	30,240	6%	350.851	\$21,729	4,039	1%	4,063.12	26,201	68%	28.146
Sutter County	8,052	8%	166.347	\$23,828	1,068	1%	3,554.62	6,984	53%	22.923
Tehama County	28,823	45%	21.649	\$21,002	4,884	16%	1,919.85	23,939	73%	11.15
Trinity County	13,313	100%	4.187	\$23,145	.	.	.	13,313	100%	4.187
Tulare County	171,588	36%	99.309	\$17,888	110,310	27%	3,679.71	61,278	90%	14.413
Tuolumne County	17,346	33%	23.443	\$26,063	1,796	7%	856.127	15,550	61%	11.577
Ventura County	16,930	2%	458.051	\$33,308	7,047	1%	3,689.76	9,883	41%	14.993
Yolo County	24,982	12%	208.155	\$28,080	13,846	7%	4,230.22	11,136	83%	13.829
Yuba County	15,204	19%	123.82	\$19,586	388	1%	3,166.44	14,816	76%	31.602
Colorado	539,327	10%	51.443	.	180,754	4%	3,043.48	358,573	53%	6.68
Adams County	27,472	6%	420.443	\$24,667	20,387	4%	3,368.46	7,085	40%	17.055
Alamosa County	.	.	20.779	\$19,481	.	.	1,334.17	.	.	7.391
Arapahoe County	14,591	2%	761.839	\$33,574	7,637	1%	3,913.43	6,954	74%	14.551
Archuleta County	12,320	100%	9.125	\$28,506	5,216	100%	981.01	7,104	100%	5.282
Baca County	2,498	100%	0.98	\$22,558	.	.	.	2,498	100%	0.98
Bent County	5,644	99%	3.77	\$15,402	3,679	99%	2,646.44	1,965	100%	1.305
Boulder County	19,654	6%	421.384	\$38,524	9,872	4%	3,287.00	9,782	38%	39.696
Broomfield County	2,822	5%	1,889.15	\$38,706	2,782	4%	2,677.46	40	12%	33.004
Chaffee County	5,180	31%	16.673	\$27,467	1,587	15%	1,211.94	3,593	57%	6.267
Cheyenne County	1,209	100%	0.68	\$23,415	.	.	.	1,209	100%	0.68
Clear Creek County	2,704	33%	20.907	\$42,446	.	.	.	2,704	33%	20.907
Conejos County	302	4%	5.631	\$18,247	.	.	.	302	4%	5.631
Costilla County	1,416	55%	2.109	\$20,592	.	.	.	1,416	55%	2.109
Crowley County	5,548	100%	7.076	\$11,726	.	.	.	5,548	100%	7.076
Custer County	115	3%	5.101	\$25,842	.	.	.	115	3%	5.101
Delta County	17,600	55%	27.857	\$24,590	3,390	29%	1,312.50	14,210	71%	17.752
Denver County	18,343	3%	4,282.22	\$34,423	18,343	3%	5,998.76	.	.	0
Dolores County	1,619	87%	1.744	\$21,543	.	.	.	1,619	87%	1.744
Douglas County	16,197	5%	385.811	\$44,105	3,824	1%	2,915.94	12,373	39%	43.404
Eagle County	13,248	23%	34.844	\$39,355	9,930	21%	2,329.52	3,318	31%	6.503
Elbert County	12,177	54%	12.257	\$36,421	.	.	.	12,177	54%	12.257
El Paso County	53,513	8%	309.287	\$29,314	26,100	4%	3,129.57	27,413	48%	29.357
Fremont County	4,725	11%	28.967	\$19,161	2,639	8%	1,455.14	2,086	20%	6.963
Garfield County	13,901	22%	21.505	\$27,022	5,746	12%	2,789.12	8,155	56%	4.935
Gilpin County	3,506	64%	36.752	\$37,375	.	.	.	3,506	64%	36.752
Grand County	6,131	42%	7.956	\$31,713	112	4%	1,211.97	6,019	50%	6.496
Gunnison County	1,314	9%	4.641	\$27,070	.	.	1,949.01	1,314	15%	2.704
Hinsdale County	728	100%	0.652	\$36,046	.	.	.	728	100%	0.652
Huerfano County	1,042	20%	3.209	\$23,440	.	.	1,243.32	1,042	34%	1.925
Jackson County	981	100%	0.608	\$25,818	.	.	.	981	100%	0.608
Jefferson County	18,596	3%	714.189	\$36,427	5,606	1%	3,164.97	12,990	35%	61.208
Kiowa County	929	100%	0.526	\$22,173	.	.	.	929	100%	0.526
Kit Carson County	6,742	94%	3.304	\$21,330	3,947	100%	2,663.11	2,795	88%	1.478
Lake County	537	7%	19.509	\$25,998	.	.	1,526.60	537	24%	6.06
La Plata County	21,415	40%	31.591	\$31,016	1,856	9%	1,940.35	19,559	62%	18.92
Larimer County	34,918	11%	123.619	\$31,082	15,874	6%	2,503.17	19,044	53%	14.384
Las Animas County	4,908	35%	2.919	\$23,365	383	5%	1,437.79	4,525	82%	1.151
Lincoln County	4,613	100%	1.79	\$17,594	.	.	.	4,613	100%	1.79
Logan County	2,822	14%	11.1	\$23,533	16	0%	2,366.74	2,806	55%	2.76
Mesa County	11,457	7%	49.654	\$26,518	130	0%	1,841.10	11,327	56%	6.222
Mineral County	560	97%	0.657	\$34,305	.	.	.	560	97%	0.657
Moffat County	772	6%	2.914	\$24,623	.	.	1,820.49	772	22%	0.733
Montezuma County	16,236	64%	12.466	\$23,611	7,297	89%	2,237.93	8,939	52%	8.432
Montrose County	13,998	31%	20.075	\$23,408	480	2%	1,439.74	13,518	72%	8.491
Morgan County	3,615	13%	20.987	\$21,297	113	1%	2,524.50	3,502	42%	6.481
Otero County	2,217	15%	12.072	\$18,868	30	0%	1,825.35	2,187	43%	4.021
Ouray County	4,058	90%	8.372	\$32,562	.	.	.	4,058	90%	8.372
Park County	9,826	64%	6.999	\$31,838	.	.	.	9,826	64%	6.999
Phillips County	1,048	31%	4.899	\$22,996	.	.	.	1,048	31%	4.899
Pitkin County	3,657	21%	18.314	\$54,441	731	7%	1,769.74	2,926	37%	8.227
Prowers County	3,162	29%	6.621	\$19,039	.	.	1,487.99	3,162	88%	2.204
Pueblo County	13,724	8%	67.882	\$22,229	4,684	3%	1,865.28	9,040	38%	10.186

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Rio Blanco County	1,184	18%	2,069	\$27,776	.	.	.	1,184	18%	2,069
Rio Grande County	2,615	26%	11.16	\$21,104	.	.	1,831.79	2,615	41%	6,953
Routt County	664	3%	10,518	\$35,019	.	.	1,757.42	664	6%	4,462
Saguache County	5,244	98%	1,681	\$20,569	.	.	.	5,244	98%	1,681
San Juan County	537	96%	1,437	\$25,926	.	.	.	537	96%	1,437
San Miguel County	2,809	39%	5,573	\$40,993	.	.	.	2,809	39%	5,573
Sedgwick County	861	59%	2,648	\$22,124	.	.	.	861	59%	2,648
Summit County	3,832	13%	48,042	\$34,842	2,830	12%	1,545.40	1,002	19%	9,027
Teller County	9,088	40%	40,843	\$31,732	265	3%	1,265.21	8,823	62%	25,89
Washington County	2,586	86%	1,195	\$24,326	.	.	.	2,586	86%	1,195
Weld County	56,444	20%	70,518	\$25,959	12,073	5%	2,735.87	44,371	83%	13,752
Yuma County	7,153	86%	3,502	\$22,902	3,195	100%	2,084.38	3,958	78%	2,152
Connecticut	47,464	1%	749,881	.	42,220	1%	1,753.58	5,244	1%	142,032
Fairfield County	2,836	0%	1,494.48	\$49,688	2,795	0%	2,015.55	41	0%	230,002
Hartford County	16,630	2%	1,242.70	\$35,307	16,178	2%	1,892.36	452	1%	177,646
Litchfield County	828	0%	203,942	\$37,696	111	0%	1,185.91	717	1%	92,86
Middlesex County	3,420	2%	456,234	\$40,589	2,519	2%	1,155.97	901	2%	158,172
New Haven County	7,237	1%	1,452.66	\$32,794	6,795	1%	1,936.37	442	1%	187,924
New London County	10,524	4%	409,731	\$34,241	8,687	4%	1,330.95	1,837	3%	134,62
Tolland County	5,031	3%	378,213	\$35,022	4,601	5%	1,112.97	430	1%	181,375
Windham County	958	1%	237,588	\$28,044	534	1%	1,323.61	424	1%	128,984
Delaware	29,789	3%	483,256	.	13,355	2%	1,926.06	16,434	10%	102,478
Kent County	7,629	4%	304,313	\$25,259	3,063	2%	1,604.67	4,566	10%	91,629
New Castle County	8,269	1%	1,293.93	\$32,616	7,587	1%	2,509.18	682	3%	116,942
Sussex County	13,891	7%	226,134	\$27,748	2,705	2%	1,090.96	11,186	13%	105,318
District of Columbia	10,539	2%	10,223.82	.	10,539	2%	10,223.82	.	.	.
Florida	1,297,648	7%	370,964	.	795,839	4%	2,450.26	501,809	29%	37,935
Alachua County	37,706	15%	296,213	\$25,020	23,648	11%	2,215.08	14,058	27%	67,503
Baker County	6,489	22%	51,002	\$20,346	413	3%	1,221.82	6,076	34%	31,345
Bay County	8,874	5%	227,278	\$24,937	3,620	2%	1,550.32	5,254	25%	31,235
Bradford County	13,708	45%	102,748	\$18,540	857	12%	1,171.43	12,851	56%	79,761
Brevard County	.	.	561,752	\$27,360	.	.	2,038.98	.	.	37,791
Broward County	45,367	3%	1,446.69	\$28,329	45,264	3%	4,450.75	103	36%	0,347
Calhoun County	14,789	100%	26.09	\$15,463	4,822	100%	1,223.14	9,967	100%	17,714
Charlotte County	14,345	10%	220,395	\$26,374	9,526	7%	1,158.52	4,819	36%	24,048
Citrus County	14,669	10%	256,845	\$23,495	3,934	4%	942.477	10,735	21%	107,604
Clay County	14,721	7%	358,539	\$26,489	7,104	4%	1,718.37	7,617	25%	62,229
Collier County	10,515	3%	173,716	\$37,236	6,651	2%	1,777.08	3,864	13%	16,618
Columbia County	15,017	20%	92,923	\$19,884	4,777	17%	1,101.69	10,240	22%	60,187
DeSoto County	22,924	65%	54,943	\$15,596	14,183	72%	1,677.22	8,741	57%	24,54
Dixie County	16,658	100%	23,627	\$16,954	4,145	100%	1,192.89	12,513	100%	17,836
Duval County	.	.	1,189.89	\$26,267	.	.	2,300.97	.	.	70,362
Escambia County	16,789	6%	446,372	\$24,014	9,973	4%	1,549.47	6,816	29%	49,243
Flagler County	4,389	4%	240.95	\$24,393	2,158	2%	2,020.67	2,231	21%	24,589
Franklin County	2,599	22%	22,369	\$20,287	157	4%	1,306.63	2,442	29%	15,622
Gadsden County	11,103	23%	93,116	\$18,101	4,046	24%	1,272.80	7,057	22%	62,683
Gilchrist County	12,656	70%	52,06	\$20,536	3,045	100%	1,569.71	9,611	63%	43,593
Glades County	8,321	63%	16,314	\$16,799	2,987	78%	1,440.82	5,334	57%	11,579
Gulf County	4,005	26%	26,923	\$19,411	.	.	1,053.57	4,005	33%	21,633
Hamilton County	788	6%	27,749	\$15,012	223	4%	2,457.10	565	6%	17,33
Hardee County	2,408	8%	44,547	\$15,783	1,395	9%	1,493.99	1,013	8%	20,949
Hendry County	12,109	29%	35,964	\$16,381	2,671	10%	1,782.95	9,438	62%	13,324
Hernando County	11,962	6%	407,842	\$21,245	2,979	2%	1,539.49	8,983	24%	100,603
Highlands County	18,236	18%	101.22	\$20,455	10,478	13%	1,258.70	7,758	37%	22,147
Hillsborough County	36,745	3%	1,302.62	\$27,532	33,133	3%	2,495.21	3,612	8%	91,264
Holmes County	14,812	75%	41,357	\$16,946	1,572	38%	1,148.54	13,240	84%	33,04
Indian River County	.	.	294,075	\$31,089	.	.	1,672.10	.	.	17,206
Jackson County	28,487	57%	54,564	\$17,611	4,878	39%	1,453.88	23,609	63%	41,366
Jefferson County	12,257	85%	24,157	\$20,972	.	.	.	12,257	85%	24,157
Lafayette County	966	11%	16,499	\$18,125	.	.	.	966	11%	16,499
Lake County	37,306	11%	357,638	\$24,103	15,547	6%	1,688.48	21,759	34%	82,106
Lee County	49,809	7%	874,862	\$27,578	43,809	7%	1,769.41	6,000	15%	92,961

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Leon County	26,526	9%	440.88	\$26,486	21,607	8%	2,016.46	4,919	14%	66.725
Levy County	36,739	88%	37.412	\$19,655	2,020	63%	1,065.17	34,719	90%	34.631
Liberty County	8,676	100%	10.422	\$16,928	.	.	.	8,676	100%	10.422
Madison County	8,551	46%	26.465	\$15,664	62	2%	1,803.50	8,489	57%	21.34
Manatee County	68,838	20%	466.279	\$27,948	64,003	20%	2,225.30	4,835	23%	35.524
Marion County	43,727	12%	227.388	\$21,752	18,071	7%	1,464.58	25,656	24%	76.754
Martin County	8,808	6%	279.317	\$35,183	4,581	3%	1,839.85	4,227	33%	27.604
Miami-Dade County	166,217	6%	1,379.71	\$23,433	160,052	6%	6,348.70	6,165	66%	6.32
Monroe County	4,272	6%	73.248	\$34,424	3,776	6%	1,741.87	496	8%	6.675
Nassau County	6,151	7%	127.795	\$29,321	2,725	6%	1,051.93	3,426	9%	65.36
Okaloosa County	14,544	8%	193.767	\$29,082	6,728	4%	1,736.92	7,816	36%	25.634
Okeechobee County	10,162	24%	55.617	\$18,087	1,359	5%	1,107.63	8,803	58%	20.559
Orange County	.	.	1,370.31	\$25,052	.	.	2,852.93	.	.	53.652
Osceola County	.	.	234.197	\$18,996	.	.	2,059.99	.	.	18.885
Palm Beach County	56,430	4%	697.467	\$33,072	53,040	4%	2,990.24	3,390	25%	8.789
Pasco County	16,275	3%	709.108	\$24,076	9,243	2%	1,906.49	7,032	14%	100.101
Pinellas County	110,217	12%	3,312.75	\$29,617	110,212	12%	3,592.01	5	0%	107.552
Polk County	70,628	11%	368.288	\$21,157	45,493	8%	1,791.78	25,135	29%	58.961
Putnam County	14,145	19%	99.81	\$18,587	2,201	7%	808.395	11,944	29%	60.393
St. Johns County	.	.	378.68	\$37,147	.	.	1,819.73	.	.	107.225
St. Lucie County	.	.	549.325	\$23,422	.	.	2,051.84	.	.	23.432
Santa Rosa County	14,974	9%	161.753	\$27,478	4,238	3%	1,358.18	10,736	33%	35.235
Sarasota County	14,459	4%	719.831	\$33,300	10,203	3%	2,097.55	4,256	24%	48.281
Seminole County	.	.	1,418.69	\$28,870	.	.	2,572.21	.	.	92.844
Sumter County	25,987	24%	200.392	\$28,875	3,725	5%	2,087.19	22,262	62%	70.545
Suwannee County	2,835	7%	63.101	\$18,966	501	7%	1,273.91	2,334	6%	53.171
Taylor County	9,476	39%	23.365	\$16,748	194	3%	1,037.60	9,282	54%	16.665
Union County	4,141	26%	65.739	\$13,467	2,735	52%	1,061.93	1,406	13%	45.203
Volusia County	.	.	464.44	\$23,844	.	.	2,064.55	.	.	57.634
Wakulla County	2,643	8%	56.895	\$21,738	222	2%	919.43	2,421	12%	35.102
Walton County	12,441	21%	57.554	\$25,854	500	2%	927.33	11,941	32%	36.444
Washington County	18,257	69%	45.551	\$17,950	353	9%	1,074.77	17,904	80%	38.889
Georgia	932,484	9%	178.596	.	306,414	4%	1,627.09	626,070	25%	46.793
Appling County	8,928	53%	33.517	\$19,440	.	.	851.746	8,928	73%	24.262
Atkinson County	3,791	46%	24.344	\$16,228	.	.	.	3,791	46%	24.344
Bacon County	4,009	37%	41.551	\$18,109	.	.	1,207.92	4,009	55%	28.68
Baker County	2,753	100%	8.051	\$22,136	.	.	.	2,753	100%	8.051
Baldwin County	1,333	3%	179.644	\$18,582	866	3%	879.853	467	3%	76.254
Banks County	866	4%	83.528	\$20,433	77	6%	762.303	789	4%	78.752
Barrow County	721	1%	511.393	\$21,185	475	1%	973.868	246	1%	241.229
Bartow County	8,034	7%	234.278	\$21,715	1,664	2%	1,099.50	6,370	17%	94.826
Ben Hill County	632	4%	67.348	\$15,497	329	3%	1,260.26	303	5%	23.885
Berrien County	1,047	5%	42.937	\$16,660	.	.	1,328.29	1,047	7%	33.541
Bibb County	4,755	3%	620.183	\$21,276	3,983	3%	1,391.57	772	3%	146.185
Bleckley County	7,325	56%	60.759	\$19,191	3,315	52%	1,388.43	4,010	60%	31.767
Brantley County	184	1%	42.429	\$16,774	.	.	577.303	184	1%	42.219
Brooks County	1,656	11%	30.756	\$19,473	68	2%	900.642	1,588	15%	22.084
Bryan County	1,560	5%	77.21	\$27,941	1,160	7%	1,230.43	400	2%	39.325
Bulloch County	68,792	91%	112.273	\$18,546	35,161	89%	1,558.41	33,631	94%	55.34
Burke County	6,472	30%	26.373	\$16,663	46	1%	1,188.57	6,426	40%	19.677
Butts County	3,575	14%	135.108	\$20,165	.	.	1,114.18	3,575	18%	109.578
Calhoun County	4,199	63%	23.615	\$15,410	.	.	.	4,199	63%	23.615
Camden County	3,703	7%	85.574	\$23,833	381	1%	1,191.72	3,322	22%	26.033
Candler County	5,812	54%	44.609	\$16,943	79	2%	1,179.82	5,733	79%	30.379
Carroll County	26,171	22%	237.846	\$21,384	2,328	3%	1,019.61	23,843	49%	112.126
Catoosa County	282	0%	415.801	\$22,415	125	0%	1,174.13	157	1%	155.973
Charlton County	2,437	21%	14.87	\$17,586	708	13%	1,137.34	1,729	29%	7.848
Chatham County	15,089	5%	658.292	\$25,636	14,460	5%	1,678.46	629	5%	47.839
Chattahoochee County	2,219	22%	40.489	\$19,538	.	.	1,271.28	2,219	95%	9.66
Chattooga County	357	1%	82.547	\$15,932	.	.	1,159.37	357	2%	48.802
Cherokee County	5,456	2%	594.092	\$30,299	3,051	1%	1,480.37	2,405	6%	149.215
Clarke County	1,010	1%	1,029.87	\$19,333	.	.	1,677.02	1,010	14%	140.267

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Clay County	716	25%	14.679	\$12,446	.	.	.	716	25%	14.679
Clayton County	6,253	2%	1,880.89	\$18,074	6,243	2%	2,147.21	10	0%	115.787
Clinch County	1,331	21%	7.782	\$18,256	129	5%	1,197.16	1,202	32%	4.7
Cobb County	26,845	4%	2,135.32	\$33,418	26,760	4%	2,164.77	85	5%	328.478
Coffee County	3,878	9%	73.516	\$16,796	720	5%	1,163.16	3,158	11%	50.304
Colquitt County	4,307	9%	85.696	\$16,972	914	5%	1,044.93	3,393	12%	52.535
Columbia County	19,641	14%	475.27	\$30,411	12,016	10%	1,741.94	7,625	35%	96.759
Cook County	3,177	19%	73.824	\$18,858	100	2%	1,094.87	3,077	30%	45.951
Coweta County	4,215	3%	331.208	\$27,462	2,820	3%	1,115.86	1,395	3%	133.999
Crawford County	4,468	37%	37.416	\$21,128	.	.	.	4,468	37%	37.416
Crisp County	6,806	30%	83.53	\$19,455	355	3%	1,612.21	6,451	61%	40.16
Dade County	2,535	16%	93.131	\$21,760	34	1%	887.801	2,501	22%	68.323
Dawson County	3,156	13%	118.75	\$28,138	358	7%	672.97	2,798	14%	98.363
Decatur County	9,335	35%	44.596	\$18,387	255	2%	1,151.17	9,080	62%	25.15
DeKalb County	24,242	3%	2,682.33	\$28,971	24,237	3%	2,808.97	5	0%	158.245
Dodge County	9,462	44%	42.983	\$17,771	512	9%	1,004.16	8,950	57%	31.921
Dooly County	3,994	28%	35.965	\$14,411	61	1%	1,865.60	3,933	54%	18.927
Dougherty County	3,347	4%	285.401	\$18,770	2,755	3%	1,454.33	592	5%	46.761
Douglas County	6,044	4%	745.321	\$23,356	4,817	4%	1,496.65	1,227	5%	197.917
Early County	2,368	25%	18.336	\$19,302	328	10%	1,088.83	2,040	34%	11.88
Echols County	3,599	100%	8.674	\$17,350	.	.	.	3,599	100%	8.674
Effingham County	1,389	2%	122.807	\$25,481	174	1%	1,525.87	1,215	3%	83.476
Elbert County	3,760	20%	53.786	\$19,709	6	0%	1,060.55	3,754	28%	38.554
Emanuel County	21,607	100%	31.747	\$16,960	7,432	100%	831.264	14,175	100%	21.104
Evans County	4,702	47%	54.536	\$19,177	394	10%	1,201.76	4,308	70%	34.342
Fannin County	5,123	22%	60.904	\$19,520	.	.	.	5,123	22%	60.904
Fayette County	2,650	2%	564.432	\$35,987	1,209	1%	1,039.62	1,441	8%	178.053
Floyd County	10,051	10%	188.359	\$20,863	3,197	5%	1,274.22	6,854	19%	76.386
Forsyth County	2,633	1%	945.703	\$35,118	2,403	1%	1,231.85	230	1%	295.976
Franklin County	6,948	33%	81.271	\$18,242	2,328	100%	1,013.25	4,620	24%	73.01
Fulton County	39,973	4%	1,908.15	\$36,827	37,385	4%	2,373.74	2,588	23%	102.45
Gilmer County	1,417	5%	67.853	\$21,260	224	6%	741.516	1,193	5%	59.757
Glascocock County	3,082	100%	21.442	\$19,134	.	.	.	3,082	100%	21.442
Glynn County	4,123	5%	202.338	\$26,667	2,986	4%	1,281.31	1,137	6%	48.603
Gordon County	10,673	18%	165.137	\$19,595	1,847	6%	1,004.60	8,826	30%	90.549
Grady County	2,128	9%	53.44	\$16,286	279	3%	1,402.82	1,849	12%	33.916
Greene County	4,424	29%	38.912	\$28,179	.	.	1,149.16	4,424	35%	32.446
Gwinnett County	11,935	1%	2,102.71	\$26,060	11,862	1%	2,195.24	73	2%	215.556
Habersham County	1,427	3%	168.628	\$18,816	605	3%	1,023.23	822	3%	106.454
Hall County	7,152	4%	519.823	\$23,551	322	0%	1,185.34	6,830	17%	159.807
Hancock County	8,190	94%	18.527	\$12,661	3,403	100%	883.908	4,787	90%	11.408
Haralson County	17,046	60%	101.512	\$20,468	324	5%	1,007.79	16,722	76%	79.944
Harris County	3,673	11%	74.14	\$32,002	.	.	1,195.35	3,673	11%	71.854
Hart County	11,054	45%	106.642	\$20,881	828	13%	1,013.44	10,226	56%	81.43
Heard County	4,343	37%	39.567	\$19,360	.	.	.	4,343	37%	39.567
Henry County	1,401	1%	704.608	\$25,123	21	0%	1,125.76	1,380	5%	205.619
Houston County	2,381	2%	397.313	\$24,613	2,327	2%	1,570.89	54	0%	49.428
Irwin County	1,515	18%	23.709	\$18,614	574	2%	1,442.35	941	18%	15.169
Jackson County	5,111	7%	206.988	\$23,076	1,130	4%	872.136	3,981	10%	135.908
Jasper County	13,478	95%	38.689	\$21,526	2,442	95%	1,310.98	11,036	94%	31.9
Jeff Davis County	6,394	42%	46.538	\$17,898	831	18%	1,165.82	5,563	52%	32.738
Jefferson County	15,001	99%	28.7	\$14,795	2,940	100%	1,230.36	12,061	99%	23.221
Jenkins County	3,367	45%	21.447	\$18,351	8	0%	1,000.91	3,359	69%	14.148
Johnson County	9,888	99%	32.804	\$17,078	3,523	99%	776.574	6,365	100%	21.424
Jones County	1,785	6%	75.734	\$25,526	123	1%	1,054.69	1,662	8%	52.068
Lamar County	5,370	29%	100.55	\$19,137	130	2%	1,299.94	5,240	46%	64.002
Lanier County	1,691	15%	60.077	\$16,860	65	2%	2,737.20	1,626	20%	44.669
Laurens County	17,162	36%	59.144	\$19,002	98	0%	915.525	17,064	63%	34.657
Lee County	3,249	11%	82.328	\$26,886	828	4%	1,030.42	2,421	24%	29.466
Liberty County	4,904	8%	123.687	\$20,308	2,677	6%	1,663.83	2,227	16%	29.374
Lincoln County	.	.	34.894	\$21,579	.	.	.	.	.	34.894
Long County	1,867	12%	39.558	\$18,206	436	14%	1,086.38	1,431	11%	31.974

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Lowndes County	20,777	18%	237.275	\$19,353	8,150	9%	1,493.42	12,627	40%	71.729
Lumpkin County	2,414	7%	117.18	\$20,333	659	13%	1,248.90	1,755	6%	100.431
McDuffie County	2,641	12%	83.446	\$18,743	315	4%	1,385.77	2,326	18%	51.486
McIntosh County	1,220	8%	34.898	\$23,286	17	0%	1,214.28	1,203	11%	26.241
Macon County	1,600	12%	33.983	\$13,546	614	9%	1,094.15	986	14%	18.101
Madison County	4,338	15%	100.163	\$20,661	3	0%	744.339	4,335	17%	92.861
Marion County	774	9%	23.232	\$19,420	.	.	.	774	9%	23.232
Meriwether County	9,293	46%	40.641	\$18,441	.	.	1,079.48	9,293	55%	33.927
Miller County	4,964	90%	19.563	\$20,641	.	.	.	4,964	90%	19.563
Mitchell County	9,444	41%	44.608	\$15,547	1,858	18%	1,383.54	7,586	61%	24.517
Monroe County	15,478	56%	70.053	\$23,196	1,639	30%	1,174.59	13,839	62%	57.075
Montgomery County	3,927	47%	34.727	\$17,378	110	100%	935.852	3,817	47%	34.285
Morgan County	11,600	64%	52.417	\$25,012	8	0%	1,047.87	11,592	84%	40.233
Murray County	495	1%	114.833	\$16,481	.	.	707.75	495	2%	84.398
Muscogee County	2,336	1%	879.02	\$23,209	1,963	1%	2,066.65	373	6%	46.782
Newton County	7,258	6%	414.758	\$21,811	70	0%	1,176.51	7,188	21%	164.717
Oconee County	6,305	17%	196.359	\$34,086	.	.	716.268	6,305	35%	113.407
Oglethorpe County	1,628	11%	34.619	\$21,764	.	.	277.576	1,628	11%	34.385
Paulding County	4,894	3%	541.059	\$24,868	1,649	1%	1,179.33	3,245	10%	170.145
Peach County	4,911	17%	194.447	\$20,256	1,580	9%	1,098.17	3,331	30%	82.447
Pickens County	3,329	10%	138.272	\$26,444	76	1%	783.436	3,253	14%	106.472
Pierce County	5,002	26%	61.189	\$21,601	.	.	1,151.57	5,002	32%	49.475
Pike County	16,579	86%	89.576	\$23,670	49	25%	623.279	16,530	86%	88.79
Polk County	2,641	6%	137.008	\$18,773	.	.	1,316.05	2,641	12%	73.969
Pulaski County	2,795	24%	46.765	\$17,379	.	.	1,117.82	2,795	35%	32.744
Putnam County	8,582	40%	62.906	\$24,807	.	.	962.559	8,582	49%	51.871
Quitman County	1,444	60%	16.034	\$15,644	216	34%	892.529	1,228	69%	11.892
Rabun County	817	5%	43.339	\$22,848	299	8%	932.697	518	4%	33.863
Randolph County	788	11%	16.292	\$24,084	70	2%	1,514.59	718	21%	8.037
Richmond County	14,011	7%	621.301	\$20,549	12,595	7%	1,724.35	1,416	8%	82.582
Rockdale County	1,620	2%	699.176	\$23,409	1,476	2%	1,300.37	144	1%	182.956
Schley County	462	9%	32.21	\$20,650	.	.	.	462	9%	32.21
Screven County	1	0%	21.115	\$18,650	1	0%	810.652	.	.	16.697
Seminole County	333	4%	33.512	\$18,939	26	1%	853.917	307	6%	23.143
Spalding County	3,616	5%	337.891	\$19,656	1,226	3%	1,383.88	2,390	9%	161.342
Stephens County	1,193	5%	142.488	\$19,624	624	6%	928.679	569	4%	91.327
Stewart County	5,296	94%	12.341	\$13,354	.	.	.	5,296	94%	12.341
Sumter County	7,930	25%	64.707	\$17,838	582	3%	1,519.54	7,348	57%	27.172
Talbot County	707	12%	15.345	\$18,545	.	.	503.54	707	13%	14.415
Taliaferro County	.	.	6.968	\$13,742	.	.	.	.	.	6.968
Tattnall County	4,949	20%	52.248	\$14,777	1,243	16%	1,256.07	3,706	22%	36.114
Taylor County	2,052	26%	20.895	\$17,311	.	.	.	2,052	26%	20.895
Telfair County	2,416	15%	37.734	\$12,156	384	4%	1,689.21	2,032	27%	17.681
Terrell County	810	10%	23.155	\$16,592	169	4%	1,771.31	641	16%	11.664
Thomas County	4,015	9%	83.251	\$19,636	430	2%	1,094.60	3,585	17%	39.29
Tift County	5,764	14%	156.893	\$19,560	1,064	4%	1,371.95	4,700	29%	67.657
Toombs County	25,335	95%	73.021	\$18,663	12,633	100%	1,070.98	12,702	91%	39.544
Towns County	332	3%	64.288	\$20,620	.	.	.	332	3%	64.288
Treutlen County	6,426	99%	32.617	\$20,643	2,601	100%	1,048.05	3,825	98%	19.822
Troup County	8,552	12%	168.684	\$21,386	.	.	1,249.43	8,552	28%	80.991
Turner County	667	9%	26.528	\$17,215	42	1%	1,252.61	625	17%	12.798
Twiggs County	3,510	44%	22.04	\$17,629	.	.	.	3,510	44%	22.04
Union County	2,179	10%	70.047	\$21,345	.	.	.	2,179	10%	70.047
Upson County	400	2%	78.847	\$17,728	.	.	1,319.23	400	3%	37.566
Walker County	1,658	2%	157.207	\$20,466	511	1%	1,059.40	1,147	4%	75.003
Walton County	4,127	4%	292.735	\$22,987	1,107	2%	1,018.21	3,020	8%	147.393
Ware County	4,886	14%	38.933	\$18,341	698	3%	1,080.98	4,188	40%	11.983
Warren County	4,794	100%	16.905	\$17,344	.	.	.	4,794	100%	16.905
Washington County	9,596	47%	29.847	\$17,330	.	.	1,020.77	9,596	73%	19.522
Wayne County	4,861	16%	47.431	\$18,139	2,140	17%	1,228.56	2,721	15%	27.938
Webster County	952	38%	11.907	\$17,740	.	.	.	952	38%	11.907
Wheeler County	3,408	48%	24.214	\$8,200	.	.	.	3,408	48%	24.214

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
White County	674	2%	120.044	\$22,016	200	4%	994.013	474	2%	102.166
Whitfield County	.	.	377.658	\$20,124	.	.	1,248.75	.	.	135.78
Wilcox County	1,189	14%	22.827	\$12,919	.	.	.	1,189	14%	22.827
Wilkes County	.	.	20.665	\$17,753	.	.	1,041.16	.	.	13.703
Wilkinson County	1,227	14%	19.005	\$18,048	.	.	.	1,227	14%	19.005
Worth County	7,308	36%	35.164	\$19,048	266	4%	1,156.72	7,042	51%	24.48
Guam	159,377	99%	767.179	.	107,044	99%	1,660.35	52,333	100%	363.848
Hawaii	26,201	2%	221.186	.	2,001	0%	3,331.34	24,200	22%	18.398
Hawaii County	22,262	12%	47.332	\$24,395	1,665	1%	1,387.95	20,597	29%	17.83
Honolulu County	547	0%	1,658.27	\$30,735	58	0%	4,519.34	489	6%	21.86
Kalawao County	.	.	5.587	\$43,771	.	.	.	.	.	5.587
Kauai County	565	1%	112.868	\$27,079	164	0%	1,703.79	401	4%	15.373
Maui County	2,827	2%	140.928	\$29,499	114	0%	2,699.96	2,713	12%	20.953
Idaho	301,118	18%	20.223	.	47,922	4%	2,434.59	253,196	55%	5.554
Ada County	9,528	2%	418.105	\$28,318	1,122	0%	2,913.54	8,406	35%	26.238
Adams County	3,043	85%	2.615	\$21,275	.	.	.	3,043	85%	2.615
Bannock County	7,003	8%	75.913	\$21,891	1,789	2%	2,327.01	5,214	43%	11.338
Bear Lake County	946	19%	5.173	\$21,867	.	.	.	946	19%	5.173
Benewah County	8,747	99%	11.327	\$21,131	2,478	98%	1,924.21	6,269	100%	8.086
Bingham County	11,843	26%	22.125	\$19,647	312	1%	1,472.36	11,531	46%	12.064
Blaine County	4,949	24%	7.857	\$34,517	1,854	13%	1,517.26	3,095	47%	2.517
Boise County	4,544	71%	3.35	\$25,562	.	.	.	4,544	71%	3.35
Bonner County	27,462	67%	23.624	\$24,333	9,392	81%	1,370.37	18,070	61%	17.028
Bonneville County	7,359	6%	63.263	\$23,160	933	1%	2,331.54	6,426	45%	7.837
Boundary County	4,134	36%	9.101	\$20,049	2,614	99%	1,288.87	1,520	17%	7.037
Butte County	1,559	64%	1.085	\$21,444	.	.	.	1,559	64%	1.085
Camas County	901	100%	0.839	\$22,073	.	.	.	901	100%	0.839
Canyon County	17,747	8%	362.884	\$17,954	3,769	2%	2,514.89	13,978	36%	75.345
Caribou County	3,856	64%	3.398	\$24,279	2,006	78%	1,118.01	1,850	54%	1.939
Cassia County	8,048	36%	8.653	\$17,942	348	3%	1,876.90	7,700	68%	4.419
Clark County	736	85%	0.489	\$15,734	.	.	.	736	85%	0.489
Clearwater County	7,793	93%	3.406	\$20,154	3,219	94%	1,607.73	4,574	93%	2.008
Custer County	2,501	62%	0.823	\$22,537	.	.	.	2,501	62%	0.823
Elmore County	5,943	24%	8.127	\$21,016	2,332	12%	1,280.12	3,611	66%	1.793
Franklin County	5,537	43%	19.327	\$17,694	160	4%	1,512.25	5,377	65%	12.556
Fremont County	7,192	58%	6.642	\$19,348	260	7%	1,904.51	6,932	78%	4.749
Gem County	2,972	18%	30.023	\$20,623	162	2%	1,676.04	2,810	38%	13.275
Gooding County	6,296	47%	18.563	\$18,965	181	3%	2,424.99	6,115	78%	10.775
Idaho County	15,591	100%	1.84	\$19,527	2,923	100%	1,947.61	12,668	100%	1.495
Jefferson County	9,333	31%	27.922	\$19,515	410	4%	1,273.26	8,923	45%	18.32
Jerome County	8,064	35%	38.519	\$17,474	461	4%	2,629.53	7,603	67%	19.15
Kootenai County	21,857	14%	123.881	\$25,190	53	0%	2,362.14	21,804	60%	30.464
Latah County	7,958	22%	33.786	\$22,575	.	.	4,145.02	7,958	67%	11.124
Lemhi County	4,308	59%	1.608	\$24,178	1,328	45%	1,451.71	2,980	68%	0.964
Lewis County	2,857	91%	6.577	\$21,542	.	.	.	2,857	91%	6.577
Lincoln County	3,221	69%	3.87	\$16,328	.	.	.	3,221	69%	3.87
Madison County	9,507	22%	90.231	\$15,406	2,588	8%	4,387.78	6,919	61%	24.744
Minidoka County	6,691	38%	23.309	\$20,238	605	6%	1,457.27	6,086	82%	9.867
Nez Perce County	5,664	14%	47.237	\$24,570	295	1%	2,029.14	5,369	75%	8.629
Oneida County	2,683	68%	3.288	\$21,286	.	.	.	2,683	68%	3.288
Owyhee County	6,769	64%	1.369	\$16,733	111	5%	2,593.73	6,658	82%	1.065
Pavette County	4,339	19%	56.22	\$20,332	364	3%	2,093.61	3,975	42%	23.573
Power County	1,225	17%	5.089	\$18,184	69	2%	3,004.97	1,156	41%	2.003
Shoshone County	10,015	82%	4.656	\$20,803	4,640	86%	1,679.92	5,375	78%	2.612
Teton County	3,391	28%	26.768	\$23,409	.	.	.	3,391	28%	26.768
Twin Falls County	10,902	13%	43.954	\$21,167	1,055	2%	2,976.60	9,847	44%	11.816
Valley County	2,736	29%	2.608	\$23,880	.	.	.	2,736	29%	2.608
Washington County	3,368	36%	6.382	\$19,342	89	2%	2,108.83	3,279	79%	2.847
Illinois	1,188,012	9%	233.981	.	419,780	4%	2,947.65	768,232	56%	26.376
Adams County	10,549	16%	77.02	\$24,247	215	0%	1,943.53	10,334	52%	24.025
Alexander County	6,707	100%	28.479	\$14,052	2,372	100%	1,009.18	4,335	100%	18.592
Bond County	14,176	86%	43.379	\$23,232	4,548	69%	1,939.00	9,628	98%	26.195

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Boone County	4,014	7%	211.589	\$25,950	450	1%	1,801.07	3,564	34%	41.894
Brown County	3,427	57%	19.813	\$20,518	1,246	34%	2,520.43	2,181	93%	7.704
Bureau County	8,700	28%	36.053	\$26,587	278	2%	1,318.26	8,422	50%	19.813
Calhoun County	4,821	100%	18.993	\$26,446	.	.	.	4,821	100%	18.993
Carroll County	4,248	32%	29.494	\$26,918	78	3%	1,647.70	4,170	39%	24.053
Cass County	11,348	100%	30.195	\$23,423	5,534	100%	1,920.06	5,814	100%	15.59
Champaign County	16,938	8%	206.375	\$26,087	5,572	3%	2,853.95	11,366	48%	25.184
Christian County	14,114	43%	45.781	\$24,016	6,552	34%	1,587.46	7,562	57%	18.962
Clark County	5,641	39%	28.978	\$25,061	150	2%	1,499.43	5,491	66%	16.737
Clay County	9,404	77%	26.194	\$22,160	4,687	100%	2,080.61	4,717	62%	16.264
Clinton County	9,810	26%	78.3	\$28,255	20	0%	1,729.53	9,790	55%	38.718
Coles County	10,685	20%	104.242	\$22,464	2,964	7%	2,290.25	7,721	65%	24.048
Cook County	103,450	2%	5,567.35	\$30,468	103,131	2%	5,872.70	319	13%	48.044
Crawford County	7,264	40%	40.543	\$25,613	1,193	16%	1,382.35	6,071	58%	23.974
Cumberland County	5,922	59%	28.868	\$22,631	.	.	.	5,922	59%	28.868
DeKalb County	14,502	13%	179.257	\$23,903	6,347	7%	2,821.13	8,155	37%	36.56
De Witt County	4,067	28%	36.442	\$27,575	216	3%	1,705.03	3,851	55%	17.781
Douglas County	5,852	33%	42.315	\$24,330	297	4%	1,640.72	5,555	52%	25.683
DuPage County	20,136	2%	2,827.99	\$38,931	19,978	2%	3,011.67	158	38%	20.437
Edgar County	10,393	68%	24.674	\$25,018	4,520	58%	1,630.37	5,873	78%	12.177
Edwards County	5,171	88%	26.397	\$21,896	.	.	.	5,171	88%	26.397
Effingham County	12,364	38%	68.775	\$26,774	149	1%	1,621.77	12,215	64%	40.498
Fayette County	13,643	68%	27.883	\$21,845	3,443	50%	1,639.87	10,200	78%	18.411
Ford County	3,995	32%	25.623	\$25,495	151	2%	1,970.70	3,844	87%	9.152
Franklin County	19,929	53%	91.257	\$20,591	7,215	38%	1,487.08	12,714	70%	45.738
Fulton County	13,247	39%	39.449	\$22,478	2,589	18%	2,231.82	10,658	54%	22.985
Gallatin County	1,883	40%	14.678	\$22,890	.	.	.	1,883	40%	14.678
Greene County	10,249	89%	21.113	\$22,483	2,582	78%	1,508.01	7,667	94%	15.09
Grundy County	10,599	19%	133.281	\$29,439	1,876	4%	1,933.53	8,723	72%	30.66
Hamilton County	5,893	79%	17.057	\$23,160	1,415	60%	1,581.36	4,478	89%	11.642
Hancock County	5,542	34%	20.521	\$24,418	175	3%	1,332.13	5,367	48%	14.121
Hardin County	3,719	100%	20.949	\$21,901	.	.	.	3,719	100%	20.949
Henderson County	4,202	74%	15.063	\$27,132	23	100%	139.583	4,179	74%	15.009
Henry County	6,999	15%	58.558	\$26,845	230	1%	1,934.52	6,769	29%	28.798
Iroquois County	13,748	52%	23.576	\$25,234	2,716	34%	1,363.95	11,032	60%	16.552
Jackson County	15,148	26%	100.632	\$20,729	4,817	13%	1,717.47	10,331	49%	37.801
Jasper County	7,314	88%	16.891	\$25,063	1,870	67%	1,224.35	5,444	98%	11.326
Jefferson County	14,596	40%	64.17	\$22,849	.	.	1,436.92	14,596	69%	37.833
Jersey County	19,419	83%	63.238	\$26,154	6,315	68%	1,731.92	13,104	93%	38.704
Jo Daviess County	7,627	36%	35.517	\$29,477	106	2%	1,143.80	7,521	49%	25.622
Johnson County	12,007	100%	34.913	\$19,684	.	.	.	12,007	100%	34.913
Kane County	12,301	2%	1,079.64	\$30,645	9,546	2%	2,489.94	2,755	14%	63.513
Kankakee County	10,657	9%	173.955	\$24,117	1,730	2%	2,327.77	8,927	33%	42.291
Kendall County	9,749	7%	448.115	\$31,110	1,950	2%	2,562.92	7,799	55%	52.582
Knox County	6,100	12%	69.177	\$22,273	156	0%	1,633.68	5,944	54%	15.773
Lake County	21,014	3%	1,638.29	\$38,459	18,785	3%	2,113.45	2,229	24%	88.301
LaSalle County	24,192	21%	99.462	\$25,668	1,406	2%	1,818.87	22,786	69%	30.07
Lawrence County	12,462	79%	42.179	\$14,208	3,727	58%	1,183.79	8,735	94%	25.234
Lee County	12,685	36%	48.204	\$24,943	2,982	17%	1,758.51	9,703	55%	24.631
Livingston County	9,483	28%	32.986	\$25,831	1,638	7%	1,982.02	7,845	63%	12.134
Logan County	10,005	38%	42.92	\$21,986	3,879	23%	1,809.21	6,126	64%	15.63
McDonough County	2,304	8%	51.662	\$20,592	15	0%	2,235.34	2,289	30%	13.165
McHenry County	11,876	4%	542.203	\$33,118	3,816	1%	2,059.04	8,060	26%	67.554
McLean County	19,287	11%	147.119	\$30,728	6,312	4%	2,718.53	12,975	51%	22.639
Macon County	14,151	13%	186.446	\$26,259	2,889	3%	1,565.43	11,262	72%	29.903
Macoupin County	34,970	81%	50.243	\$25,402	11,854	65%	1,713.55	23,116	92%	29.563
Madison County	18,816	7%	379.887	\$28,093	4,874	2%	1,566.11	13,942	39%	63.37
Marion County	11,083	31%	62.504	\$22,398	8	0%	1,420.13	11,075	70%	28.53
Marshall County	3,498	33%	27.048	\$26,399	.	.	.	3,498	33%	27.048
Mason County	11,240	91%	22.88	\$23,937	3,145	100%	1,397.62	8,095	88%	17.12
Massac County	5,260	36%	61.994	\$23,190	145	2%	1,843.92	5,115	70%	31.552
Menard County	11,964	100%	38.141	\$29,391	2,828	100%	1,174.14	9,136	100%	29.372

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Mercer County	7,215	49%	26.137	\$26,739	128	4%	1,515.58	7,087	63%	20.23
Monroe County	2,966	8%	90.933	\$33,059			1,645.50	2,966	22%	36.906
Montgomery County	19,423	73%	37.959	\$20,067	10,482	64%	1,246.65	8,941	86%	15.071
Morgan County	11,588	35%	58.967	\$24,822	1,686	8%	1,901.94	9,902	87%	20.399
Moultrie County	7,653	55%	41.799	\$23,801	91	2%	1,359.72	7,562	78%	29.18
Ogle County	13,632	26%	68.522	\$27,337	720	3%	1,508.13	12,912	55%	31.493
Peoria County	17,250	9%	304.706	\$28,414	2,055	1%	1,968.56	15,195	57%	49.914
Perry County	15,108	71%	48.146	\$19,999	7,577	62%	1,579.08	7,531	82%	21.042
Piatt County	4,815	30%	36.061	\$31,750	138	3%	1,550.02	4,677	45%	23.976
Pike County	13,967	99%	17.055	\$20,925	4,239	99%	1,584.64	9,728	98%	11.919
Pope County	4,057	98%	11.278	\$21,431				4,057	98%	11.278
Pulaski County	3,495	74%	23.702	\$19,575				3,495	74%	23.702
Putnam County	3,033	55%	34.278	\$28,158				3,033	55%	34.278
Randolph County	11,501	37%	53.965	\$22,771	6,129	33%	1,619.91	5,372	43%	21.915
Richland County	9,268	62%	41.29	\$23,996	4,064	45%	1,317.41	5,204	90%	16.451
Rock Island County	6,668	5%	345.429	\$26,257	1,909	1%	1,918.12	4,759	32%	42.036
St. Clair County	7,838	3%	414.372	\$26,459	7,559	3%	1,556.36	279	1%	51.836
Saline County	7,166	31%	60.761	\$21,295	616	5%	1,330.53	6,550	65%	27.068
Sangamon County	28,799	15%	227.931	\$30,594	15,642	9%	1,766.53	13,157	48%	35.25
Schuyler County	6,883	100%	15.741	\$23,852	2,917	100%	2,131.64	3,966	100%	9.098
Scott County	4,475	99%	18.066	\$24,395				4,475	99%	18.066
Shelby County	15,075	81%	24.562	\$23,279	2,977	70%	1,409.62	12,098	84%	19.047
Stark County	2,076	40%	18.061	\$27,104				2,076	40%	18.061
Stephenson County	8,967	20%	79.979	\$23,686	266	1%	1,827.34	8,701	50%	31.549
Tazewell County	16,932	12%	215.181	\$28,953	4,620	4%	1,866.95	12,312	45%	46.145
Union County	11,673	68%	41.383	\$22,430	3,217	55%	1,464.59	8,456	75%	27.552
Vermilion County	28,282	39%	81.496	\$21,924	15,524	30%	1,606.28	12,758	58%	25.296
Wabash County	7,551	71%	47.404	\$24,493	3,925	59%	1,683.26	3,626	93%	17.844
Warren County	13,935	90%	28.639	\$22,923	9,060	100%	2,336.46	4,875	75%	12.022
Washington County	6,193	47%	23.185	\$27,996	467	13%	1,129.68	5,726	61%	16.756
Wayne County	11,130	74%	21.133	\$23,897	2,923	64%	1,605.73	8,207	78%	14.756
White County	9,540	75%	25.671	\$26,388	3,043	59%	2,097.08	6,497	87%	15.241
Whiteside County	11,006	20%	79.23	\$24,815	1,093	3%	1,755.99	9,913	49%	30.534
Will County	13,829	2%	881.562	\$30,791	12,544	2%	2,175.15	1,285	5%	53.258
Williamson County	18,459	28%	157.703	\$24,096	2,231	5%	1,192.62	16,228	71%	59.878
Winnesh County	12,758	4%	590.881	\$24,802	4,147	1%	2,030.77	8,611	37%	61.566
Woodford County	7,247	18%	74.669	\$30,300	86	0%	1,704.61	7,161	34%	40.936
Indiana	1,131,373	17%	185.352		220,696	5%	1,933.62	910,677	52%	52.772
Adams County	13,614	39%	103.089	\$21,161	490	3%	1,399.64	13,124	69%	57.983
Allen County	24,133	7%	563.94	\$25,485	7,020	2%	1,910.57	17,113	40%	88.127
Bartholomew County	11,135	14%	192.351	\$27,623	4,020	8%	2,029.16	7,115	28%	67.601
Benton County	6,605	89%	18.166	\$22,591				6,605	89%	18.166
Blackford County	4,928	44%	67.319	\$20,754	112	2%	1,254.48	4,816	86%	34.917
Boone County	15,219	25%	144.54	\$38,024	790	2%	1,869.94	14,429	73%	49.358
Brown County	12,045	82%	47.291	\$27,664				12,045	82%	47.291
Carrroll County	12,444	68%	49.39	\$25,040	2,019	59%	1,538.40	10,425	70%	40.459
Cass County	9,771	27%	86.725	\$21,609	1,267	6%	1,599.90	8,504	54%	39.68
Clark County	6,990	6%	320.255	\$25,057	121	0%	1,679.87	6,869	28%	76.406
Clay County	14,675	58%	70.26	\$21,520	5,272	52%	1,776.81	9,403	63%	42.591
Clinton County	9,597	29%	81.013	\$22,205	318	2%	2,236.40	9,279	60%	38.966
Crawford County	9,238	95%	31.825	\$19,002				9,238	95%	31.825
Davies County	22,168	71%	72.775	\$21,532	5,220	44%	1,761.51	16,948	87%	46.06
Dearborn County	4,856	9%	171.175	\$27,746	477	2%	1,289.09	4,379	16%	95.692
Decatur County	9,765	38%	68.224	\$22,609	155	1%	1,844.24	9,610	73%	35.996
DeKalb County	11,508	28%	115.298	\$23,768	127	1%	1,871.43	11,381	65%	50.334
Delaware County	12,149	11%	289.355	\$21,360	5,265	6%	1,844.93	6,884	28%	72.481
Dubois County	17,584	41%	100.871	\$25,841	525	2%	1,621.18	17,059	82%	50.338
Elkhart County	39,516	19%	440.667	\$21,403	14,250	9%	1,575.46	25,266	59%	118.246
Fayette County	5,530	24%	107.342	\$19,633	271	2%	1,641.44	5,259	60%	42.507
Floyd County	2,659	3%	531.518	\$27,449	212	0%	1,548.30	2,447	15%	147.327
Fountain County	9,771	62%	40.052	\$23,153	1,492	27%	2,069.10	8,279	81%	26.027
Franklin County	16,754	72%	60.18	\$23,741	1,840	69%	1,007.23	14,914	73%	53.575

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Fulton County	4,198	21%	54.364	\$21,523	.	.	1,721.82	4,198	33%	34.673
Gibson County	11,512	37%	64.219	\$24,256	1,666	12%	2,103.34	9,846	58%	35.409
Grant County	18,192	28%	158.916	\$20,442	5,022	11%	1,883.45	13,170	71%	47.631
Greene County	19,866	63%	58.139	\$22,491	1,324	17%	1,262.26	18,542	78%	44.452
Hamilton County	21,135	7%	802.159	\$40,012	10,805	4%	2,146.72	10,330	63%	64.431
Hancock County	1,698	2%	254.879	\$28,722	370	1%	1,528.01	1,328	6%	83.736
Harrison County	20,677	50%	85.304	\$24,469	206	4%	1,545.97	20,471	58%	73.838
Hendricks County	20,512	13%	400.911	\$30,018	7,358	5%	1,706.05	13,154	48%	83.737
Henry County	9,655	20%	120.793	\$20,165	3,049	11%	1,730.56	6,606	33%	53.255
Howard County	7,782	10%	271.712	\$23,897	2,179	3%	1,637.94	5,603	32%	67.789
Huntington County	9,543	26%	95.084	\$22,875	24	0%	1,677.86	9,519	52%	48.8
Jackson County	10,234	24%	82.358	\$22,556	278	1%	1,588.49	9,956	55%	36.325
Jasper County	16,463	47%	62.742	\$24,501	4,381	39%	1,749.66	12,082	51%	43.117
Jay County	8,070	40%	52.721	\$19,812	130	1%	1,847.09	7,940	72%	29.122
Jefferson County	10,052	31%	90.73	\$22,218	74	0%	1,393.80	9,978	69%	41.764
Jennings County	10,108	36%	74.491	\$20,812	101	1%	1,355.43	10,007	60%	45.271
Johnson County	16,771	11%	478.161	\$28,500	4,358	3%	2,426.71	12,413	60%	78.04
Knox County	12,301	33%	71.651	\$21,801	3,580	15%	1,918.48	8,721	68%	25.445
Kosciusko County	17,011	22%	147.452	\$25,531	2,409	6%	1,140.77	14,602	41%	72.776
LaGrange County	29,288	77%	100.802	\$19,863	207	7%	1,414.05	29,081	82%	93.387
Lake County	13,286	3%	1,019.31	\$24,294	8,411	2%	2,065.65	4,875	24%	78.206
LaPorte County	12,731	11%	189.693	\$23,074	3,996	5%	1,801.32	8,735	22%	70.348
Lawrence County	14,683	32%	101.632	\$23,046	3,170	18%	1,210.54	11,513	41%	64.076
Madison County	18,920	14%	290.694	\$22,049	5,311	5%	1,417.06	13,609	45%	78.685
Marion County	28,185	3%	2,382.47	\$24,145	27,797	3%	2,611.92	388	7%	156.276
Marshall County	16,004	34%	106.005	\$22,580	902	5%	1,540.52	15,102	51%	68.104
Martin County	7,440	75%	29.544	\$23,038	1,202	45%	1,577.85	6,238	86%	21.686
Miami County	12,135	35%	93.676	\$21,209	3,563	18%	1,432.44	8,572	55%	43.008
Monroe County	10,434	7%	372.199	\$23,837	6,381	6%	2,584.92	4,053	13%	88.748
Montgomery County	14,743	39%	74.828	\$22,392	437	2%	1,547.54	14,306	74%	39.108
Morgan County	25,442	36%	174.736	\$25,245	8,266	23%	1,313.91	17,176	50%	91.04
Newton County	4,180	31%	33.388	\$24,389	.	.	.	4,180	31%	33.388
Noble County	20,898	44%	116.142	\$22,821	130	1%	2,112.68	20,768	65%	79.139
Ohio County	2,543	42%	70.292	\$23,906	.	.	.	2,543	42%	70.292
Orange County	15,032	78%	48.255	\$19,023	2,076	64%	1,429.23	12,956	81%	40.307
Owen County	7,099	35%	52.945	\$21,636	.	.	.	7,099	35%	52.945
Parke County	12,832	80%	36.23	\$22,131	3,141	77%	880.988	9,691	81%	27.317
Perry County	9,015	47%	49.727	\$21,050	412	5%	1,777.17	8,603	81%	28.006
Pike County	9,369	78%	35.929	\$22,974	.	.	.	9,369	78%	35.929
Porter County	7,714	4%	418.976	\$29,043	2,657	2%	1,494.20	5,057	14%	108.679
Posey County	15,124	62%	59.264	\$29,426	1,549	19%	903.012	13,575	84%	40.529
Pulaski County	2,824	24%	27.1	\$21,725	27	1%	1,750.29	2,797	30%	21.472
Putnam County	10,169	27%	79.556	\$21,541	203	1%	2,010.21	9,966	41%	50.821
Randolph County	1,345	6%	51.077	\$22,386	.	.	1,831.15	1,345	10%	31.204
Ripley County	15,963	56%	63.363	\$23,206	3,418	72%	1,661.05	12,545	53%	53.013
Rush County	7,308	46%	38.956	\$23,872	186	3%	1,548.39	7,122	76%	23.186
St. Joseph County	28,329	11%	571.818	\$24,039	16,564	7%	1,860.16	11,765	49%	72.172
Scott County	5,484	22%	128.62	\$21,575	.	.	1,592.59	5,484	42%	70.602
Shelby County	12,989	29%	107.565	\$24,200	1,260	6%	1,951.42	11,729	52%	56.69
Spencer County	14,094	71%	50.287	\$24,346	.	.	.	14,094	71%	50.287
Starke County	9,205	41%	73.256	\$20,292	139	3%	1,479.11	9,066	49%	60.937
Steuben County	11,421	34%	108.287	\$24,345	258	2%	1,236.97	11,163	50%	74.002
Sullivan County	12,776	64%	44.398	\$20,193	15	0%	2,031.92	12,761	83%	34.509
Switzerland County	8,758	82%	48.637	\$19,255	.	.	.	8,758	82%	48.637
Tippecanoe County	25,811	14%	376.458	\$23,337	13,612	8%	2,523.37	12,199	46%	60.563
Tipton County	4,218	28%	56.966	\$26,350	295	5%	1,832.31	3,923	44%	34.861
Union County	3,738	53%	43.56	\$21,805	.	.	.	3,738	53%	43.56
Vanderburgh County	2,502	1%	793.93	\$24,426	22	0%	2,036.86	2,480	15%	111.961
Vermillion County	9,557	68%	54.699	\$23,475	3,897	69%	1,457.79	5,660	67%	33.248
Vigo County	9,625	9%	259.739	\$21,766	268	0%	1,669.08	9,357	37%	70.493
Wabash County	11,306	38%	72.458	\$21,943	13	0%	2,045.20	11,293	77%	36.063
Warren County	5,489	73%	20.571	\$28,574	82	5%	763.679	5,407	94%	15.84

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Warrick County	10,617	17%	166.802	\$30,197	24	0%	2,202.95	10,593	59%	49,557
Washington County	15,316	55%	54.56	\$20,317	.	.	1,641.69	15,316	71%	42.52
Wayne County	11,821	18%	167.586	\$21,130	1,246	3%	1,760.51	10,575	49%	58,005
Wells County	8,580	31%	74.952	\$24,126	309	2%	1,607.32	8,271	61%	38.03
White County	2,640	12%	43.437	\$24,116	265	4%	1,215.29	2,375	16%	29,578
Whitley County	13,957	41%	102.45	\$26,120	408	4%	1,529.08	13,549	56%	73,622
Iowa	451,148	15%	55.493	.	76,830	4%	2,200.33	374,318	37%	18,253
Adair County	1,776	30%	10.535	\$25,657	.	.	.	1,776	30%	10,535
Adams County	1,180	40%	6.988	\$25,169	.	.	.	1,180	40%	6,988
Allamakee County	10,247	72%	22.271	\$25,622	123	3%	1,972.39	10,124	97%	16,334
Appanoose County	1,795	15%	23.385	\$22,744	4	0%	1,568.51	1,791	28%	12,894
Audubon County	1,416	28%	11.283	\$30,714	.	.	.	1,416	28%	11,283
Benton County	6,843	28%	33.601	\$28,177	69	1%	1,966.84	6,774	35%	27,051
Black Hawk County	6,646	5%	244.167	\$24,771	461	0%	1,935.30	6,185	35%	35,161
Boone County	6,278	25%	43.165	\$27,160	139	1%	1,294.19	6,139	50%	21,707
Bremer County	6,372	26%	56.175	\$29,632	113	1%	1,364.33	6,259	41%	35,761
Buchanan County	8,948	44%	35.542	\$28,193	90	1%	1,934.48	8,858	65%	24,011
Buena Vista County	2,790	14%	33.85	\$23,707	13	0%	3,136.14	2,777	37%	13,295
Butler County	5,388	39%	24.057	\$26,327	.	.	.	5,388	39%	24,057
Calhoun County	779	10%	13.431	\$26,486	.	.	.	779	10%	13,431
Carroll County	2,871	14%	35.886	\$26,479	.	.	2,324.17	2,871	29%	17,255
Cass County	2,219	18%	21.639	\$25,555	54	1%	2,230.89	2,165	37%	10,546
Cedar County	5,521	32%	29.498	\$27,566	37	1%	2,009.20	5,484	38%	24,667
Cerro Gordo County	2,776	6%	76.797	\$27,605	178	0%	1,581.03	2,598	33%	14,382
Cherokee County	2,264	23%	17.412	\$28,150	47	1%	2,436.16	2,217	40%	9,708
Chickasaw County	2,933	27%	21.938	\$25,137	93	3%	2,146.23	2,840	36%	15,507
Clarke County	592	7%	19.345	\$23,743	141	3%	1,398.89	451	12%	8,643
Clay County	2,001	12%	28.254	\$29,138	4	0%	1,845.12	1,997	43%	8,245
Clayton County	8,403	48%	22.323	\$25,853	51	9%	1,353.79	8,352	50%	21,582
Clinton County	7,087	14%	71.507	\$26,751	549	2%	2,209.04	6,538	43%	22,226
Crawford County	4,433	29%	21.407	\$23,066	737	8%	2,024.91	3,696	56%	9,235
Dallas County	7,386	9%	139.805	\$36,677	1,760	3%	2,665.74	5,626	25%	40,036
Davis County	5,512	66%	16.663	\$23,046	.	.	.	5,512	66%	16,663
Decatur County	2,304	32%	13.747	\$19,321	.	.	.	2,304	32%	13,747
Delaware County	2,211	13%	28.652	\$26,776	45	1%	1,921.26	2,166	19%	19,873
Des Moines County	2,186	5%	98.009	\$23,724	371	1%	1,981.19	1,815	18%	25,769
Dickinson County	2,368	14%	43.862	\$32,869	382	3%	971.777	1,986	37%	14,653
Dubuque County	7,753	8%	165.729	\$26,791	715	1%	2,239.40	7,038	26%	47,31
Emmet County	2,227	23%	24.535	\$28,293	280	4%	2,221.96	1,947	59%	8,427
Fayette County	3,534	19%	25.214	\$24,236	43	1%	1,809.42	3,491	28%	17,315
Floyd County	1,963	13%	29.485	\$25,142	128	2%	1,908.79	1,835	25%	14,614
Franklin County	3,385	38%	15.26	\$25,719	28	1%	1,945.14	3,357	67%	8,582
Fremont County	2,597	43%	11.723	\$28,656	.	.	0	2,597	43%	11,724
Greene County	1,599	21%	13.278	\$27,140	.	.	1,477.28	1,599	40%	7,014
Grundy County	2,711	23%	23.764	\$30,701	.	.	.	2,711	23%	23,764
Guthrie County	2,414	27%	14.996	\$28,746	.	.	.	2,414	27%	14,996
Hamilton County	2,739	20%	24.312	\$25,531	157	2%	1,826.31	2,582	41%	11,082
Hancock County	3,933	39%	17.466	\$27,025	.	.	1,553.21	3,933	60%	11,44
Hardin County	3,334	21%	27.973	\$25,792	16	0%	1,489.91	3,318	31%	19,203
Harrison County	6,085	44%	19.703	\$26,217	2,574	92%	2,071.97	3,511	32%	15,73
Henry County	3,224	17%	43.642	\$23,679	159	2%	1,498.77	3,065	30%	24,021
Howard County	1,091	13%	17.845	\$25,040	.	.	2,064.32	1,091	22%	10,683
Humboldt County	2,095	25%	19.595	\$26,592	209	4%	1,678.14	1,886	57%	7,694
Ida County	5,652	100%	13.128	\$26,712	.	.	.	5,652	100%	13,128
Iowa County	5,283	34%	26.302	\$28,249	28	1%	1,486.24	5,255	42%	21,255
Jackson County	5,901	31%	30.364	\$24,988	124	1%	1,933.21	5,777	59%	15,541
Jasper County	5,372	15%	48.49	\$25,825	246	2%	1,922.47	5,126	26%	27,014
Jefferson County	1,897	12%	35.31	\$27,408	21	0%	1,392.46	1,876	32%	13,501
Johnson County	11,225	8%	237.799	\$31,131	3,286	3%	2,649.48	7,939	31%	44,444
Jones County	5,623	28%	34.693	\$26,671	129	1%	2,727.52	5,494	49%	19,395
Keokuk County	2,426	28%	15.197	\$23,544	.	.	.	2,426	28%	15,197
Kossuth County	4,602	35%	13.377	\$29,229	20	0%	1,955.99	4,582	59%	8,071

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Lee County	2,711	8%	68.293	\$22,960	348	2%	2,031.92	2,363	17%	27.681
Linn County	10,935	5%	322.237	\$30,949	5,050	2%	2,336.51	5,885	21%	44.499
Louisa County	3,062	31%	24.751	\$25,411	.	.	.	3,062	31%	24.751
Lucas County	1,701	21%	18.581	\$22,060	7	0%	1,599.46	1,694	39%	10.082
Lyon County	2,655	26%	17.63	\$25,578	.	.	.	2,655	26%	17.63
Madison County	4,814	31%	27.383	\$27,848	177	4%	2,601.40	4,637	44%	18.685
Mahaska County	4,787	22%	38.917	\$24,875	717	6%	1,369.44	4,070	44%	16.449
Marion County	1,957	6%	61.197	\$26,161	35	0%	1,860.75	1,922	12%	29.831
Marshall County	3,974	10%	72.985	\$24,549	903	3%	2,540.01	3,071	24%	22.64
Mills County	6,575	45%	33.406	\$27,942	621	10%	1,474.27	5,954	72%	19.198
Mitchell County	1,221	13%	20.811	\$24,629	.	.	1,882.45	1,221	20%	13.193
Monona County	2,495	32%	11.309	\$24,645	.	.	1,699.77	2,495	47%	7.631
Monroe County	1,161	16%	17.159	\$23,983	2	0%	1,622.65	1,159	29%	9.118
Montgomery County	842	9%	21.205	\$23,342	89	2%	1,930.91	753	19%	9.381
Muscataine County	32,069	72%	102.096	\$25,007	24,511	72%	1,943.10	7,558	70%	25.749
O'Brien County	6,074	49%	21.679	\$30,213	4,275	87%	2,404.57	1,799	24%	13.173
Osceola County	4,165	83%	12.652	\$25,239	2,451	100%	2,294.59	1,714	66%	6.521
Page County	2,744	19%	26.431	\$23,630	1,110	11%	1,585.55	1,634	42%	7.34
Palo Alto County	3,670	47%	13.731	\$26,111	7	0%	1,780.69	3,663	83%	7.835
Plymouth County	8,500	35%	27.875	\$27,848	.	.	2,432.72	8,500	60%	16.622
Pocahontas County	1,734	32%	9.336	\$26,144	.	.	.	1,734	32%	9.336
Polk County	12,645	3%	844.879	\$30,863	6,879	1%	2,522.57	5,766	25%	59.883
Pottawattamie County	14,459	15%	102.548	\$26,821	1,572	2%	2,179.26	12,887	54%	26.132
Poweshiek County	4,265	24%	30.308	\$26,855	28	0%	2,305.32	4,237	50%	14.604
Ringgold County	1,352	33%	7.567	\$24,553	.	.	.	1,352	33%	7.567
Sac County	4,944	56%	15.485	\$27,224	.	.	.	4,944	56%	15.485
Scott County	5,968	3%	382.47	\$29,243	3,602	2%	2,348.78	2,366	10%	58.633
Shelby County	2,165	21%	17.36	\$27,178	57	1%	2,188.44	2,108	37%	9.615
Sioux County	8,407	25%	43.778	\$25,343	101	1%	2,009.86	8,306	52%	20.969
Story County	10,548	11%	170.52	\$26,113	5,058	6%	2,755.98	5,490	37%	27.001
Tama County	2,504	16%	22.287	\$26,247	204	4%	2,131.12	2,300	20%	15.788
Taylor County	2,520	53%	8.893	\$24,044	.	.	.	2,520	53%	8.893
Union County	864	7%	27.702	\$23,647	2	0%	1,901.14	862	20%	10.098
Van Buren County	4,049	60%	13.948	\$23,045	.	.	.	4,049	60%	13.948
Wapello County	4,430	13%	79.16	\$21,909	642	3%	1,769.51	3,788	39%	23.324
Warren County	7,461	15%	90.11	\$29,449	173	1%	2,325.82	7,288	35%	37.15
Washington County	3,048	14%	37.596	\$27,051	.	.	2,495.65	3,048	21%	25.947
Wayne County	387	8%	9.596	\$22,433	.	.	.	387	8%	9.596
Webster County	2,499	7%	50.56	\$24,213	1,401	6%	1,960.49	1,098	10%	15.824
Winnebago County	4,853	49%	24.667	\$25,387	32	1%	1,838.61	4,821	78%	15.474
Winneshie County	9,126	46%	28.843	\$25,709	1,410	16%	1,677.06	7,716	69%	16.385
Woodbury County	8,853	9%	118.53	\$23,221	1,657	2%	2,287.00	7,196	43%	19.979
Worth County	2,956	46%	16.025	\$24,886	.	.	.	2,956	46%	16.025
Wright County	2,809	24%	19.982	\$25,964	85	2%	1,920.30	2,724	44%	10.686
Kansas	436,249	15%	35.756	.	123,315	5%	2,344.46	312,934	49%	7.959
Allen County	1,280	12%	21.451	\$20,105	127	3%	1,599.39	1,153	20%	11.747
Anderson County	4,869	72%	11.633	\$22,122	3,065	100%	1,549.92	1,804	49%	6.367
Atchison County	16,246	100%	37.686	\$22,446	11,330	100%	1,885.74	4,916	100%	11.57
Barber County	605	16%	3.326	\$27,785	.	.	.	605	16%	3.326
Barton County	2,522	9%	30.862	\$25,750	276	1%	2,540.11	2,246	28%	8.971
Bourbon County	4,923	36%	21.685	\$20,798	4,059	55%	1,763.02	864	13%	10.143
Brown County	8,457	100%	14.814	\$22,284	2,993	100%	1,387.19	5,464	100%	9.608
Butler County	18,491	27%	48.362	\$27,431	610	1%	2,004.43	17,881	69%	18.472
Chase County	1,958	96%	2.627	\$23,653	.	.	.	1,958	96%	2.627
Chautauqua County	2,654	100%	4.154	\$23,325	.	.	.	2,654	100%	4.154
Cherokee County	4,169	22%	32.81	\$19,849	3,794	37%	1,285.12	375	4%	15.657
Cheyenne County	1,795	99%	1.772	\$24,309	.	.	.	1,795	99%	1.772
Clark County	4	0%	1.572	\$25,116	.	.	.	4	0%	1.572
Clay County	501	6%	12.413	\$26,143	24	1%	1,918.74	477	12%	5.994
Cloud County	6,729	76%	12.344	\$21,265	5,402	98%	2,207.71	1,327	40%	4.656
Coffey County	2,815	42%	10.644	\$29,044	101	5%	1,212.44	2,714	57%	7.565
Comanche County	40	3%	1.686	\$22,107	.	.	.	40	3%	1.686

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Cowley County	7,583	22%	30.659	\$21,848	901	4%	1,586.35	6,682	67%	8.982
Crawford County	208	1%	63.158	\$20,854	16	0%	1,911.31	192	2%	21.079
Decatur County	1,591	98%	1.821	\$28,094	.	.	.	1,591	98%	1.821
Dickinson County	8,909	49%	21.486	\$24,754	2,062	28%	2,145.61	6,847	63%	12.957
Doniphan County	6,973	100%	17.725	\$23,246	2,234	100%	689.465	4,739	100%	12.146
Douglas County	6,170	5%	260.425	\$26,790	2,979	3%	3,034.75	3,191	26%	29.66
Edwards County	272	14%	3.177	\$24,899	.	.	.	272	14%	3.177
Elk County	2,076	100%	3.222	\$21,693	.	.	.	2,076	100%	3.222
Ellis County	1,000	3%	31.821	\$25,310	.	.	2,180.05	1,000	16%	7.177
Ellsworth County	2,122	39%	7.521	\$23,458	1,194	41%	2,222.53	928	37%	3.465
Finney County	160	0%	30.073	\$22,179	.	.	2,592.84	160	3%	4.497
Ford County	93	0%	31.678	\$21,269	62	0%	2,720.43	31	1%	5.055
Franklin County	10,052	39%	44.685	\$23,980	390	3%	2,342.44	9,662	75%	22.816
Geary County	5,453	14%	100.403	\$21,318	3,807	11%	1,870.45	1,646	40%	11.357
Gove County	908	46%	1.858	\$27,571	.	.	.	908	46%	1.858
Graham County	47	2%	2.227	\$28,290	.	.	.	47	2%	2.227
Grant County	24	0%	12.197	\$26,386	.	.	2,423.20	24	2%	2.016
Gray County	22	0%	5.493	\$25,585	.	.	.	22	0%	5.493
Greeley County	721	100%	0.926	\$25,766	.	.	.	721	100%	0.926
Greenwood County	1,800	36%	4.393	\$24,123	18	1%	1,432.13	1,782	61%	2.548
Hamilton County	.	.	2.192	\$23,360	.	.	.	.	.	2.192
Harper County	3,753	84%	5.574	\$24,913	.	.	.	3,753	84%	5.574
Harvey County	5,215	15%	65.098	\$23,846	583	2%	2,111.23	4,632	47%	18.87
Haskell County	2	0%	4.798	\$25,213	.	.	.	2	0%	4.798
Hodgeman County	5	0%	1.451	\$30,474	.	.	.	5	0%	1.451
Jackson County	8,074	64%	19.192	\$25,030	.	.	2,180.85	8,074	86%	14.351
Jefferson County	9,890	54%	34.13	\$26,259	42	20%	888.479	9,848	55%	33.753
Jewell County	1,323	72%	2.019	\$23,393	.	.	.	1,323	72%	2.019
Johnson County	12,463	2%	1,301.43	\$39,447	6,276	1%	2,897.38	6,187	27%	86.624
Kearny County	302	10%	3.478	\$23,719	.	.	.	302	10%	3.478
Kingman County	2,749	48%	6.66	\$24,892	35	1%	1,302.75	2,714	81%	3.87
Kiowa County	1,171	76%	2.13	\$22,301	.	.	.	1,171	76%	2.13
Labette County	2,829	15%	29.092	\$20,506	237	3%	1,711.99	2,592	28%	14.695
Lane County	1,093	100%	1.523	\$31,892	.	.	.	1,093	100%	1.523
Leavenworth County	12,587	15%	175.766	\$26,902	664	1%	2,257.38	11,923	50%	54.416
Lincoln County	1,804	81%	3.107	\$24,509	.	.	.	1,804	81%	3.107
Linn County	1,524	20%	13.081	\$25,525	.	.	.	1,524	20%	13.081
Logan County	1,956	100%	1.823	\$27,296	.	.	.	1,956	100%	1.823
Lyon County	6,345	20%	37.065	\$20,272	989	4%	2,200.58	5,356	76%	8.381
McPherson County	10,572	39%	30.265	\$27,979	286	2%	1,925.17	10,286	94%	12.27
Marion County	6,965	70%	10.536	\$23,152	1,092	41%	2,314.04	5,873	80%	7.74
Marshall County	5,309	73%	8.034	\$25,828	2,175	100%	1,442.14	3,134	62%	5.627
Meade County	27	1%	3.356	\$22,727	.	.	.	27	1%	3.356
Miami County	28,183	82%	59.565	\$28,822	12,293	71%	1,975.03	15,890	94%	29.892
Mitchell County	5,308	97%	7.82	\$27,271	3,116	100%	1,730.21	2,192	92%	3.389
Montgomery County	8,009	25%	49.975	\$20,912	195	1%	1,524.77	7,814	55%	22.373
Morris County	4,812	100%	6.921	\$24,558	.	.	.	4,812	100%	6.921
Morton County	72	3%	3.052	\$23,486	.	.	.	72	3%	3.052
Nemaha County	7,283	91%	11.19	\$25,319	2,188	100%	1,469.97	5,095	87%	8.157
Neosho County	399	3%	27.109	\$22,474	.	.	1,694.78	399	6%	11.435
Ness County	513	23%	2.041	\$29,713	.	.	.	513	23%	2.041
Norton County	1,237	26%	5.393	\$23,323	.	.	1,860.07	1,237	56%	2.524
Osage County	7,459	50%	20.968	\$24,199	1	0%	1,390.69	7,458	61%	17.354
Osborne County	482	17%	3.101	\$27,104	.	.	.	482	17%	3.101
Ottawa County	1,030	19%	7.587	\$27,899	.	.	.	1,030	19%	7.587
Pawnee County	1,766	31%	7.476	\$22,191	748	18%	1,503.17	1,018	66%	2.048
Phillips County	1,187	27%	4.954	\$25,146	.	.	1,380.46	1,187	56%	2.392
Pottawatomie County	2,020	9%	26.653	\$25,469	558	6%	1,749.24	1,462	12%	15.031
Pratt County	1,464	16%	12.61	\$26,807	.	.	2,448.09	1,464	58%	3.464
Rawlins County	1,717	99%	1.622	\$27,719	.	.	.	1,717	99%	1.622
Reno County	14,429	22%	52.009	\$23,378	2,496	5%	2,153.51	11,933	63%	15.252
Republic County	3,045	86%	4.914	\$25,642	.	.	.	3,045	86%	4.914

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Rice County	1,616	20%	11.235	\$23,633	114	3%	1,898.16	1,502	31%	6.697
Riley County	12,863	16%	132.997	\$23,872	10,981	15%	3,243.93	1,882	20%	15.835
Rooks County	605	16%	4.284	\$23,829	.	.	.	605	16%	4.284
Rush County	1,696	72%	3.274	\$24,642	.	.	.	1,696	72%	3.274
Russell County	121	2%	6.966	\$26,641	.	.	1,918.96	121	5%	2.502
Saline County	6,599	11%	80.73	\$25,577	749	1%	2,208.22	5,850	78%	10.763
Scott County	4,337	100%	6.044	\$26,991	3,330	100%	2,201.79	1,007	100%	1.406
Sedgwick County	40,213	7%	548.351	\$25,897	15,948	3%	2,448.57	24,265	60%	51.286
Seward County	44	0%	36.709	\$19,872	.	.	2,292.80	44	2%	3.607
Shawnee County	16,341	9%	346.618	\$26,682	5,341	3%	2,005.49	11,000	37%	63.332
Sheridan County	739	41%	2	\$27,102	.	.	.	739	41%	2
Sherman County	2,663	62%	4.045	\$20,944	2,131	59%	1,342.81	532	83%	0.611
Smith County	391	15%	2.825	\$26,964	.	.	.	391	15%	2.825
Stafford County	3,050	99%	3.889	\$24,169	.	.	.	3,050	99%	3.889
Stanton County	12	1%	2.058	\$22,623	.	.	.	12	1%	2.058
Stevens County	14	0%	6.332	\$25,126	.	.	1,954.44	14	1%	1.906
Sumner County	43	0%	16.618	\$23,670	.	.	1,633.09	43	0%	10.251
Thomas County	6,724	100%	6.277	\$28,364	4,900	100%	1,637.14	1,824	99%	1.723
Trego County	512	24%	2.433	\$24,860	.	.	.	512	24%	2.433
Wabaunsee County	4,841	79%	7.697	\$24,980	.	.	.	4,841	79%	7.697
Wallace County	1,042	100%	1.14	\$28,254	.	.	.	1,042	100%	1.14
Washington County	2,707	66%	4.57	\$22,910	.	.	.	2,707	66%	4.57
Wichita County	1,498	100%	2.085	\$25,191	.	.	.	1,498	100%	2.085
Wilson County	5,168	70%	12.994	\$20,235	49	2%	1,554.74	5,119	99%	9.121
Woodson County	942	42%	4.498	\$22,912	.	.	.	942	42%	4.498
Wyandotte County	853	1%	1,096.41	\$18,753	354	0%	1,963.13	499	5%	140.761
Kentucky	699,360	16%	113.005	.	73,542	3%	1,877.09	625,818	34%	47.647
Adair County	3,467	19%	46.072	\$17,772	23	1%	1,350.67	3,444	24%	35.113
Allen County	14,190	68%	60.911	\$19,651	383	9%	1,080.17	13,807	83%	48.959
Anderson County	4,362	19%	113.109	\$23,566	38	0%	1,911.96	4,324	47%	47.482
Ballard County	3,121	39%	32.056	\$23,417	.	.	.	3,121	39%	32.056
Barren County	18,124	41%	90.62	\$19,907	886	5%	1,467.71	17,238	62%	58.802
Bath County	517	4%	41.762	\$17,137	.	.	.	517	4%	41.762
Bell County	10,061	37%	76.663	\$14,657	706	7%	1,346.73	9,355	54%	49.433
Boone County	718	1%	549.758	\$29,656	90	0%	1,703.30	628	4%	96.706
Bourbon County	4,677	24%	68.584	\$23,267	6	0%	2,275.36	4,671	54%	30.63
Boyd County	411	1%	305.797	\$24,446	52	0%	1,237.82	359	3%	95.15
Boyle County	5,890	20%	161.099	\$22,394	199	1%	1,313.38	5,691	57%	60.535
Bracken County	475	6%	40.095	\$21,742	.	.	.	475	6%	40.095
Breathitt County	11,322	84%	27.321	\$15,574	2,584	100%	1,194.65	8,738	80%	22.17
Breckinridge County	19,919	100%	35.254	\$18,151	.	.	.	19,919	100%	35.254
Bullitt County	1,163	1%	271.15	\$24,364	16	0%	1,264.46	1,147	5%	93.219
Butler County	12,094	98%	28.818	\$18,747	.	.	.	12,094	98%	28.818
Caldwell County	4,339	34%	36.956	\$21,194	10	0%	1,191.82	4,329	62%	20.437
Calloway County	2,145	6%	97.615	\$21,093	245	1%	1,708.06	1,900	11%	47.545
Campbell County	1,375	2%	604.607	\$27,479	24	0%	2,282.64	1,351	10%	119.182
Carlisle County	361	8%	24.747	\$21,959	.	.	.	361	8%	24.747
Carrroll County	3,161	29%	85.347	\$19,711	55	1%	1,436.19	3,106	54%	46.219
Carter County	1,850	7%	67.295	\$19,536	508	9%	1,094.11	1,342	6%	53.694
Casey County	1,558	10%	35.576	\$15,949	.	.	.	1,558	10%	35.576
Christian County	16,697	22%	105.46	\$19,704	6,495	12%	1,643.84	10,202	50%	29.831
Clark County	8,064	22%	147.162	\$24,787	49	0%	1,911.37	8,015	80%	42.017
Clay County	1,465	7%	44.968	\$14,574	202	4%	1,023.75	1,263	8%	35.731
Clinton County	358	3%	52.457	\$17,171	.	.	.	358	3%	52.457
Crittenden County	3,950	42%	25.898	\$20,548	15	1%	1,645.87	3,935	60%	18.354
Cumberland County	3,257	52%	20.457	\$17,245	.	.	.	3,257	52%	20.457
Daviess County	10,750	11%	217.608	\$23,140	.	.	2,154.09	10,750	40%	63.353
Edmonson County	3,122	25%	41.557	\$20,652	.	.	.	3,122	25%	41.557
Elliott County	.	.	36.169	\$15,159	.	.	.	.	.	36.169
Estill County	981	7%	56.852	\$16,449	13	0%	1,794.38	968	9%	44.075
Fayette County	2,954	1%	1,110.55	\$29,168	2,881	1%	3,602.01	73	1%	44.381
Fleming County	1,235	9%	40.988	\$20,719	27	1%	1,352.95	1,208	10%	33.393

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Floyd County	28,704	75%	97.685	\$17,958	2,316	38%	1,150.42	26,388	82%	83.338
Franklin County	1,179	2%	237.77	\$26,592	77	0%	1,668.95	1,102	8%	72.236
Fulton County	1,823	32%	27.946	\$18,892	43	2%	1,052.91	1,780	48%	18.316
Gallatin County	5,571	65%	84.784	\$20,507	.	.	.	5,571	65%	84.784
Garrard County	692	4%	75.94	\$22,334	2	0%	1,647.29	690	5%	60.296
Grant County	5,473	21%	100.211	\$19,872	37	0%	1,128.80	5,436	33%	66.19
Graves County	2,694	7%	66.031	\$21,367	57	1%	1,465.92	2,637	10%	46.523
Grayson County	1,086	4%	52.797	\$19,404	105	1%	1,323.34	981	5%	39.065
Green County	1,135	10%	38.593	\$19,465	.	.	.	1,135	10%	38.593
Greenup County	1,462	4%	106.52	\$22,360	215	1%	1,150.19	1,247	8%	45.313
Hancock County	7,517	89%	45.169	\$22,637	903	100%	869.674	6,614	87%	40.581
Hardin County	1,893	2%	175.403	\$24,559	251	0%	1,327.57	1,642	4%	65.963
Harlan County	16,524	60%	58.844	\$15,543	7,230	58%	1,425.03	9,294	62%	32.628
Harrison County	10,766	56%	62.765	\$21,488	137	2%	2,262.29	10,629	82%	42.472
Hart County	14,253	78%	44.593	\$18,289	44	2%	1,127.07	14,209	88%	39.321
Henderson County	6,205	13%	106.951	\$22,968	386	1%	2,085.21	5,819	33%	41.61
Henry County	5,271	34%	53.504	\$21,288	.	.	.	5,271	34%	53.504
Hickman County	2,607	61%	17.604	\$20,051	.	.	.	2,607	61%	17.604
Hopkins County	11,354	25%	85.34	\$22,632	617	3%	1,292.58	10,737	49%	41.708
Jackson County	57	0%	38.812	\$15,760	.	.	.	57	0%	38.812
Jefferson County	652	0%	2,011.19	\$28,464	209	0%	2,660.76	443	4%	108.898
Jessamine County	73	0%	316.532	\$26,235	.	.	2,809.98	73	1%	85.906
Johnson County	4,953	21%	89.146	\$18,380	397	6%	1,063.28	4,556	27%	66.792
Kenton County	1,368	1%	1,036.49	\$27,788	30	0%	2,219.71	1,338	12%	126.564
Knott County	13,521	83%	46.129	\$18,304	.	.	.	13,521	83%	46.129
Knox County	7,104	22%	84.647	\$15,013	2,261	19%	1,133.13	4,843	24%	54.61
Larue County	2,182	15%	55.04	\$20,051	9	0%	1,853.16	2,173	20%	41.794
Laurel County	519	1%	140.193	\$19,375	237	1%	706.456	282	1%	87.36
Lawrence County	353	2%	37.654	\$19,037	.	.	1,375.89	353	3%	29.173
Lee County	7,247	96%	35.977	\$15,059	.	.	.	7,247	96%	35.977
Leslie County	6,668	63%	26.449	\$16,708	.	.	.	6,668	63%	26.449
Letcher County	20,129	85%	70.456	\$18,163	.	.	.	20,129	85%	70.456
Lewis County	1,812	14%	27.753	\$15,764	.	.	.	1,812	14%	27.753
Lincoln County	7,888	32%	74.114	\$18,192	.	.	1,261.88	7,888	39%	61.138
Livingston County	3,401	38%	28.745	\$20,700	.	.	672.898	3,401	40%	27.422
Logan County	.	.	47.23	\$19,063	.	.	925.017	.	.	36.161
Lyon County	8,113	100%	38.061	\$23,621	.	.	.	8,113	100%	38.061
McCracken County	1,520	2%	260.71	\$26,571	962	2%	1,055.02	558	3%	89.156
McCreary County	3,889	21%	43.5	\$11,287	.	.	.	3,889	21%	43.5
McLean County	5,784	65%	35.14	\$20,789	.	.	.	5,784	65%	35.14
Madison County	4,403	5%	199.688	\$21,535	218	0%	1,837.64	4,185	13%	81.355
Magoffin County	1,895	14%	42.539	\$15,838	.	.	.	1,895	14%	42.539
Marion County	1,875	9%	58.532	\$18,741	.	.	1,821.59	1,875	13%	42.272
Marshall County	910	3%	104.547	\$23,595	76	2%	954.671	834	3%	91.357
Martin County	6,655	52%	55.957	\$15,406	.	.	.	6,655	52%	55.957
Mason County	8,834	50%	73.294	\$23,694	5,733	75%	1,509.34	3,101	31%	42.305
Meade County	4,775	17%	93.621	\$23,229	1,121	26%	1,499.71	3,654	15%	80.183
Menifee County	.	.	29.59	\$16,464	.	.	.	.	.	29.59
Mercer County	4,472	21%	86.492	\$22,614	.	.	1,673.50	4,472	35%	52.317
Metcalfe County	9,851	99%	34.459	\$17,265	.	.	.	9,851	99%	34.459
Monroe County	4,848	48%	30.792	\$17,571	.	.	.	4,848	48%	30.792
Montgomery County	2,691	9%	145.121	\$21,057	118	1%	1,962.44	2,573	15%	89.497
Morgan County	.	.	35.329	\$16,379	.	.	.	.	.	35.329
Muhlenberg County	9,825	32%	65.666	\$19,200	336	3%	1,239.25	9,489	45%	45.808
Nelson County	39,335	85%	111.374	\$23,531	19,736	96%	1,209.83	19,599	76%	64.785
Nicholas County	3,858	58%	34.124	\$21,276	.	.	.	3,858	58%	34.124
Ohio County	13,393	56%	40.564	\$18,991	119	2%	1,523.94	13,274	76%	29.93
Oldham County	3,217	5%	352.652	\$34,113	1,401	3%	1,024.53	1,816	14%	95.765
Owen County	10,214	94%	30.905	\$22,346	.	.	.	10,214	94%	30.905
Owsley County	77	2%	22.988	\$14,591	.	.	.	77	2%	22.988
Pendleton County	7,329	50%	53.129	\$23,755	.	.	.	7,329	50%	53.129
Perry County	4,349	15%	82.966	\$18,606	772	11%	1,065.85	3,577	17%	62.632

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Pike County	50,187	78%	81.42	\$19,749	6,248	80%	1,144.25	43,939	78%	72.102
Powell County	12,644	100%	70.645	\$16,544	4,154	100%	1,127.72	8,490	100%	48.432
Pulaski County	1,963	3%	99.285	\$20,348	75	0%	875.358	1,888	5%	56.332
Robertson County	784	36%	21.619	\$17,326	.	.	.	784	36%	21.619
Rockcastle County	1,405	8%	54.172	\$17,146	25	1%	1,334.37	1,380	10%	45.82
Rowan County	150	1%	85.202	\$18,168	.	.	1,585.43	150	1%	58.501
Russell County	17,677	100%	69.945	\$17,181	.	.	.	17,677	100%	69.945
Scott County	8,766	16%	194.296	\$27,906	586	2%	2,270.67	8,180	49%	63.203
Shelby County	6,237	13%	123.152	\$27,152	40	0%	1,570.09	6,197	29%	59.141
Simpson County	5,438	32%	73.474	\$18,840	95	1%	1,763.99	5,343	70%	33.322
Spencer County	5,219	27%	104.539	\$26,564	.	.	.	5,219	27%	104.539
Taylor County	294	1%	93.464	\$18,430	34	0%	1,531.01	260	2%	50.417
Todd County	6,691	54%	33.266	\$18,592	.	.	.	6,691	54%	33.266
Trigg County	4,603	32%	32.872	\$24,982	47	2%	1,381.78	4,556	40%	26.152
Trimble County	1,864	21%	57.785	\$22,804	56	12%	653.005	1,808	22%	54.935
Union County	2,657	20%	39.671	\$19,611	.	.	1,646.83	2,657	31%	25.444
Warren County	4,439	4%	228.779	\$24,012	6	0%	1,897.28	4,433	12%	76.109
Washington County	8,690	73%	39.964	\$19,818	.	.	.	8,690	73%	39.964
Wayne County	892	4%	45.911	\$15,935	149	2%	1,191.30	743	5%	31.489
Webster County	6,981	56%	37.811	\$20,983	.	.	.	6,981	56%	37.811
Whitley County	7,285	20%	81.92	\$16,406	365	3%	996.486	6,920	29%	55.175
Wolfe County	.	.	32.759	\$13,455	.	.	.	.	.	32.759
Woodford County	113	0%	136.706	\$29,995	.	.	1,567.47	113	1%	50.713
Louisiana	881,763	19%	106.32	.	282,361	8%	1,720.06	599,402	50%	29.298
Acadia Parish	17,584	29%	93.585	\$20,264	704	2%	1,778.65	16,880	52%	50.633
Allen Parish	21,964	87%	33.21	\$19,259	7,772	100%	1,522.54	14,192	81%	23.164
Ascension Parish	1,233	1%	429.732	\$28,834	726	1%	1,317.00	507	3%	77.708
Assumption Parish	966	4%	67.983	\$23,085	77	1%	987.613	889	9%	32.012
Avoelles Parish	40,725	98%	50.024	\$17,899	14,435	97%	1,436.43	26,290	98%	32.57
Beauregard Parish	23,343	67%	30.255	\$23,451	1,595	14%	843.76	21,748	92%	20.605
Bienville Parish	12,289	99%	15.329	\$20,622	2,569	100%	934.485	9,720	99%	12.204
Bossier Parish	24,297	20%	147.083	\$27,199	8,832	9%	1,509.59	15,465	53%	37.791
Caddo Parish	20,970	8%	290.606	\$24,673	10,672	5%	1,696.26	10,298	28%	48.283
Calcasieu Parish	46,932	24%	182.84	\$24,521	24,697	16%	1,138.65	22,235	55%	43.174
Caldwell Parish	9,379	100%	17.715	\$22,752	.	.	.	9,379	100%	17.715
Cameron Parish	4,746	92%	4	\$29,450	.	.	.	4,746	92%	4
Catahoula Parish	9,782	100%	13.879	\$21,237	.	.	.	9,782	100%	13.879
Claiborne Parish	15,939	100%	21.139	\$17,672	2,778	100%	886.338	13,161	100%	17.531
Concordia Parish	16,039	79%	29.036	\$16,931	9,634	71%	1,409.70	6,405	97%	9.604
De Soto Parish	17,726	70%	29.066	\$22,027	5,488	100%	1,362.96	12,238	61%	22.904
East Baton Rouge Parish	13,391	3%	1,009.08	\$27,558	11,355	3%	2,215.17	2,036	7%	118.125
East Carroll Parish	6,689	100%	15.9	\$12,129	4,511	100%	1,639.34	2,178	100%	5.211
East Feliciana Parish	17,932	91%	43.415	\$21,370	.	.	.	17,932	91%	43.415
Evangeline Parish	28,437	89%	48.332	\$18,535	9,681	81%	1,351.19	18,756	94%	30.684
Franklin Parish	19,053	100%	30.559	\$17,816	5,065	100%	1,386.18	13,988	100%	22.582
Grant Parish	14,427	62%	36.252	\$18,415	19	0%	588.614	14,408	74%	30.631
Iberia Parish	18,736	26%	127.421	\$23,562	7,286	14%	1,549.38	11,450	56%	37.748
Iberville Parish	6,412	20%	53.025	\$21,576	1,139	9%	1,488.77	5,273	27%	32.04
Jackson Parish	15,101	99%	26.865	\$18,875	5,301	100%	1,193.61	9,800	98%	17.689
Jefferson Parish	12,722	3%	1,434.05	\$27,067	11,564	3%	4,319.30	1,158	26%	22.217
Jefferson Davis Parish	16,371	54%	46.912	\$21,656	5,240	35%	1,320.74	11,131	72%	24.117
Lafayette Parish	4,726	2%	875.869	\$29,332	3,758	2%	1,539.36	968	5%	153.808
Lafourche Parish	35,709	37%	90.415	\$25,010	28,609	39%	1,510.49	7,100	30%	23.003
La Salle Parish	14,115	100%	22.595	\$21,998	3,784	100%	852.619	10,331	100%	16.656
Lincoln Parish	13,476	29%	98.531	\$21,150	2,876	10%	1,190.18	10,600	58%	40.62
Livingston Parish	2,216	2%	225.802	\$25,508	1,311	2%	1,193.46	905	2%	102.72
Madison Parish	10,096	94%	17.116	\$14,526	7,613	93%	1,828.08	2,483	100%	4.005
Morehouse Parish	5,113	20%	31.964	\$17,969	310	2%	1,273.40	4,803	38%	16.023
Natchitoches Parish	15,931	42%	30.502	\$20,607	2,567	13%	1,667.94	13,364	72%	14.931
Orleans Parish	14,254	4%	2,090.83	\$27,255	14,018	4%	4,459.04	236	11%	23.975
Ouachita Parish	9,643	6%	253.145	\$22,160	4,334	4%	1,421.39	5,309	14%	72.001
Plaquemines Parish	7,311	42%	22.177	\$26,672	4,958	35%	604.414	2,353	79%	3.955

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Pointe Coupee Parish	7,489	33%	40.515	\$24,552	1,695	18%	946.65	5,794	45%	23.646
Rapides Parish	25,589	19%	101.124	\$22,106	3,567	4%	1,359.80	22,022	42%	42.071
Red River Parish	8,317	100%	21.376	\$21,395	.	.	.	8,317	100%	21.376
Richland Parish	18,325	96%	34.303	\$19,440	5,830	91%	1,525.21	12,495	98%	23.048
Sabine Parish	18,946	84%	25.965	\$23,058	1,638	60%	1,161.07	17,308	88%	22.869
St. Bernard Parish	387	1%	85.813	\$21,079	293	1%	1,792.58	94	7%	3.512
St. Charles Parish	1,523	3%	193.821	\$26,623	704	1%	1,808.45	819	13%	24.943
St. Helena Parish	10,660	94%	27.674	\$19,582	.	.	.	10,660	94%	27.674
St. James Parish	5,830	26%	92.334	\$24,757	3,781	23%	874.335	2,049	34%	27.045
St. John the Baptist Parish	1,342	3%	220.241	\$22,785	907	2%	1,943.99	435	7%	32.23
St. Landry Parish	21,431	26%	89.448	\$19,282	3,376	8%	1,359.29	18,055	44%	45.746
St. Martin Parish	6,521	12%	72.899	\$22,783	1,225	5%	923.709	5,296	20%	37.797
St. Mary Parish	5,868	11%	95.927	\$21,616	2,983	6%	1,356.98	2,885	42%	13.229
St. Tammany Parish	575	0%	289.912	\$30,948	.	.	1,531.80	575	1%	77.538
Tangipahoa Parish	13,666	10%	169.054	\$21,262	.	.	972.822	13,666	25%	76.866
Tensas Parish	3,992	97%	6.828	\$16,819	.	.	.	3,992	97%	6.828
Terrebonne Parish	637	1%	91.994	\$23,999	581	1%	1,626.02	56	0%	19.499
Union Parish	20,467	98%	23.935	\$19,437	3,539	100%	708.461	16,928	97%	20.014
Vermilion Parish	3,227	6%	48.866	\$23,303	610	2%	1,408.45	2,617	8%	27.844
Vernon Parish	15,422	33%	35.453	\$21,609	3,709	15%	1,103.03	11,713	52%	17.26
Washington Parish	45,936	97%	70.879	\$17,459	14,497	97%	1,343.80	31,439	97%	49.321
Webster Parish	22,962	59%	65.757	\$20,623	6,080	33%	1,205.48	16,882	82%	35.619
West Baton Rouge Parish	2,703	11%	128.008	\$25,296	1,821	11%	888.674	882	12%	42.481
West Carroll Parish	10,264	100%	28.539	\$19,296	.	.	.	10,264	100%	28.539
West Feliciana Parish	16,147	100%	40.237	\$21,916	.	.	.	16,147	100%	40.237
Winn Parish	7,762	57%	14.326	\$17,508	247	5%	1,087.30	7,515	84%	9.483
Maine	162,563	12%	43.587	.	20,362	4%	1,442.75	142,201	17%	27.081
Androscoggin County	442	0%	238.4	\$24,734	49	0%	1,731.41	393	1%	112.73
Aroostook County	23,686	34%	10.329	\$21,933	3,880	28%	1,429.41	19,806	36%	8.282
Cumberland County	2,279	1%	346.167	\$33,844	411	0%	1,433.02	1,868	2%	148.338
Franklin County	17,910	58%	18.143	\$22,576	4,055	74%	1,683.37	13,855	55%	14.94
Hancock County	10,229	19%	34.161	\$28,077	.	.	1,200.15	10,229	21%	30.857
Kennebec County	1,684	1%	144.067	\$25,636	517	1%	1,409.89	1,167	1%	95.452
Knox County	3,100	8%	110.579	\$28,062	.	.	1,390.36	3,100	11%	77.394
Lincoln County	1,321	4%	74.8	\$28,798	.	.	.	1,321	4%	74.8
Oxford County	7,819	13%	28.2	\$21,577	127	1%	1,522.97	7,692	16%	23.541
Penobscot County	35,400	22%	46.457	\$24,076	5,956	9%	1,478.93	29,444	32%	27.477
Piscataquis County	9,817	58%	4.269	\$22,796	.	.	.	9,817	58%	4.269
Sagadahoc County	1,716	5%	138.71	\$29,879	72	1%	1,381.62	1,644	8%	89.485
Somerset County	21,602	41%	13.5	\$21,765	4,675	45%	1,646.31	16,927	40%	10.858
Waldo County	15,901	41%	52.521	\$23,729	.	.	1,225.20	15,901	45%	48.253
Washington County	8,087	25%	12.469	\$21,450	.	.	1,370.57	8,087	27%	11.566
York County	1,570	1%	200.414	\$29,741	620	1%	1,297.77	950	1%	123.645
Maryland	262,002	4%	614.951	.	166,879	3%	2,607.01	95,123	13%	96.515
Allegany County	9,073	12%	172.417	\$21,653	4,696	9%	1,574.66	4,377	22%	50.357
Anne Arundel County	15,039	3%	1,351.16	\$41,315	13,479	3%	2,235.38	1,560	5%	164.836
Baltimore County	22,265	3%	1,382.69	\$34,701	19,856	3%	2,949.49	2,409	5%	155.005
Calvert County	3,788	4%	435.389	\$38,633	1,621	3%	1,096.08	2,167	6%	219.166
Caroline County	6,363	19%	106.54	\$25,193	293	4%	1,291.37	6,070	24%	82.051
Carroll County	6,965	4%	381.039	\$36,936	3,651	3%	1,428.75	3,314	5%	175.878
Cecil County	4,952	5%	308.566	\$29,025	2,215	4%	1,179.91	2,737	6%	150.435
Charles County	13,249	9%	336.807	\$37,223	1,914	2%	1,765.56	11,335	26%	109.011
Dorchester County	7,725	23%	60.89	\$26,755	367	2%	1,717.54	7,358	41%	33.769
Frederick County	16,512	7%	365.797	\$37,254	9,850	5%	1,821.36	6,662	12%	101.694
Garrett County	8,172	28%	45.01	\$24,974	101	2%	1,039.52	8,071	33%	38.323
Harford County	4,862	2%	584.526	\$35,763	1,683	1%	1,829.52	3,179	7%	134.202
Howard County	4,110	1%	1,219.61	\$48,243	3,556	1%	2,195.69	554	2%	217.353
Kent County	3,143	16%	72.815	\$28,411	851	15%	2,182.34	2,292	16%	53.142
Montgomery County	21,302	2%	2,079.43	\$48,916	19,981	2%	3,688.00	1,321	6%	108.229
Prince George's County	29,127	3%	1,811.84	\$32,637	27,321	3%	2,904.87	1,806	11%	84.655
Queen Anne's County	3,272	6%	142.457	\$38,392	464	2%	1,439.99	2,808	10%	79.179
St. Mary's County	5,800	5%	326.519	\$36,602	2,524	4%	1,144.14	3,276	6%	190.862

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Somerset County	16,485	64%	80.854	\$16,471	9,256	63%	2,339.72	7,229	65%	35.322
Talbot County	6,896	18%	142.151	\$37,661	3,058	17%	1,861.18	3,838	19%	78.431
Washington County	9,079	6%	337.533	\$27,173	5,595	5%	1,862.33	3,484	8%	112.045
Wicomico County	13,151	13%	276.06	\$26,298	9,056	12%	1,579.99	4,095	16%	78.055
Worcester County	6,357	13%	106.801	\$33,376	1,176	4%	1,493.46	5,181	30%	38.187
Baltimore city	24,315	4%	7,751.45	\$25,062	24,315	4%	7,752.66	.	.	0
Massachusetts	183,103	3%	851.115	.	129,783	2%	2,047.70	53,320	10%	108.656
Barnstable County	4,294	2%	513.874	\$36,964	3,887	2%	798.074	407	3%	93.816
Berkshire County	19,028	15%	136.907	\$30,168	1,937	2%	1,472.07	17,091	43%	45.381
Bristol County	10,931	2%	994.454	\$29,173	10,587	2%	1,749.68	344	1%	200.747
Dukes County	2,524	15%	167.833	\$33,738	1,868	18%	1,069.80	656	10%	72.862
Essex County	6,842	1%	1,541.09	\$36,035	6,678	1%	2,175.55	164	1%	198.508
Franklin County	14,901	22%	98.682	\$29,658	602	2%	1,265.57	14,299	39%	54.965
Hampden County	11,128	2%	756.825	\$26,249	6,908	2%	2,152.13	4,220	11%	94.73
Hampshire County	24,729	16%	300.278	\$29,884	18,752	16%	1,470.50	5,977	14%	96.577
Middlesex County	27,536	2%	1,872.45	\$43,667	27,286	2%	2,491.95	250	1%	209.057
Nantucket County	203	2%	236.047	\$47,548	61	1%	1,107.98	142	7%	51.387
Norfolk County	16,422	2%	1,723.45	\$45,375	16,341	2%	1,929.99	81	1%	177.94
Plymouth County	11,222	2%	758.783	\$35,869	10,563	2%	1,301.35	659	1%	164.095
Suffolk County	19,978	3%	13,027.97	\$33,522	19,354	3%	13,226.22	624	100%	679.088
Worcester County	13,365	2%	533.742	\$32,072	4,959	1%	1,616.69	8,406	6%	133.712
Michigan	1,153,387	12%	174.11	.	245,299	3%	2,037.08	908,088	37%	46.549
Alcona County	2,492	24%	15.452	\$23,304	.	.	690.064	2,492	24%	15.289
Alger County	2,242	25%	9.632	\$20,798	5	0%	851.199	2,237	37%	6.602
Allegan County	33,019	29%	138.039	\$24,599	452	1%	1,278.91	32,567	45%	91.726
Alpena County	1,668	6%	50.68	\$21,975	.	.	1,481.20	1,668	11%	26.613
Antrim County	5,401	24%	46.563	\$25,725	.	.	.	5,401	24%	46.563
Arenac County	5,615	39%	39.75	\$20,663	.	.	.	5,615	39%	39.75
Baraga County	270	3%	8.795	\$17,319	.	.	.	270	3%	8.795
Barry County	40,962	68%	108.42	\$25,264	6,645	48%	1,492.84	34,317	74%	84.872
Bav County	5,338	5%	244.554	\$24,538	34	0%	1,715.62	5,304	16%	82.349
Benzie County	3,660	22%	52.827	\$25,433	.	.	.	3,660	22%	52.827
Berrien County	19,567	13%	273.152	\$24,304	4,489	4%	1,245.65	15,078	30%	104.428
Branch County	14,327	33%	86.573	\$20,823	.	.	.	14,327	54%	53.778
Calhoun County	41,280	31%	188.492	\$23,202	17,873	19%	1,469.28	23,407	57%	63.62
Cass County	14,745	29%	103.685	\$23,222	798	5%	1,026.06	13,947	39%	75.464
Charlevoix County	3,918	16%	58.841	\$27,231	.	.	995.098	3,918	23%	42.131
Cheboygan County	9,388	40%	33.136	\$23,648	.	.	1,165.73	9,388	48%	27.596
Chippewa County	9,013	25%	23.398	\$20,563	722	4%	2,077.13	8,291	48%	11.168
Clare County	8,589	29%	52.198	\$18,572	.	.	989.368	8,589	42%	36.751
Clinton County	32,400	41%	138.635	\$28,889	8,891	23%	1,261.45	23,509	58%	75.389
Crawford County	5,290	41%	23.157	\$21,964	.	.	868.113	5,290	57%	16.834
Delta County	4,795	13%	30.711	\$22,525	.	.	1,145.44	4,795	31%	13.365
Dickinson County	6,180	24%	33.176	\$24,948	2,496	15%	1,086.43	3,684	45%	11.089
Eaton County	52,156	48%	188.727	\$27,089	18,939	28%	1,411.49	33,217	81%	77.338
Emmet County	8,409	26%	68.754	\$30,861	.	.	1,371.33	8,409	35%	51.904
Genesee County	7,729	2%	655.617	\$22,536	5,872	2%	1,481.21	1,857	3%	176.104
Gladwin County	15,746	65%	48.216	\$20,753	.	.	1,033.69	15,746	74%	42.854
Gogebic County	3,710	25%	13.682	\$20,570	.	.	1,324.13	3,710	36%	9.409
Grand Traverse County	3,932	4%	197.114	\$28,400	.	.	1,154.01	3,932	9%	103.944
Gratiot County	6,649	16%	71.646	\$18,922	.	.	2,223.13	6,649	27%	43.139
Hillsdale County	17,599	39%	76.125	\$20,888	454	3%	1,346.83	17,145	55%	52.841
Houghton County	3,214	9%	35.967	\$19,883	.	.	1,863.53	3,214	24%	13.551
Huron County	8,879	30%	35.066	\$22,739	29	1%	1,329.33	8,850	34%	31.193
Ingham County	.	.	507.232	\$25,010	.	.	2,429.29	.	.	81.432
Ionia County	32,206	50%	112.686	\$20,549	4,263	17%	1,670.43	27,943	72%	69.546
Iosco County	5,821	24%	44.548	\$23,262	.	.	755.61	5,821	41%	26.711
Iron County	8,101	76%	9.094	\$22,092	2,952	100%	1,452.80	5,149	67%	6.574
Isabella County	12,215	17%	124.777	\$19,698	13	0%	2,333.37	12,202	38%	57.701
Jackson County	45,338	28%	227.262	\$22,879	8,928	10%	1,522.04	36,410	55%	104.25
Kalamazoo County	8,952	3%	461.209	\$25,943	291	0%	1,670.08	8,661	19%	104.22
Kalkaska County	9,822	60%	29.214	\$20,445	.	.	1,073.83	9,822	71%	24.812

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Kent County	22,107	4%	743.422	\$26,436	11,332	2%	2,214.49	10,775	11%	162,709
Keweenaw County	755	37%	3.757	\$25,197	.	.	.	755	37%	3.757
Lake County	9,641	100%	16.992	\$16,275	.	.	.	9,641	100%	16.992
Lapeer County	26,930	31%	135.936	\$24,102	.	.	1,382.43	26,930	40%	107,542
Leelanau County	3,672	18%	60.414	\$32,883	.	.	777.326	3,672	19%	55,377
Lenawee County	25,334	25%	132.551	\$22,834	4,374	9%	1,887.19	20,960	41%	69,879
Livingston County	29,300	16%	332.971	\$32,681	8,891	7%	1,081.23	20,409	29%	152,689
Luce County	5,516	100%	6.135	\$17,951	2,855	100%	1,916.85	2,661	100%	2,965
Mackinac County	5,615	60%	9.221	\$23,453	.	.	1,003.07	5,615	77%	7,142
Macomb County	19,669	2%	1,797.00	\$27,145	13,341	2%	3,124.21	6,328	26%	113,133
Manistee County	6,438	28%	42.084	\$22,649	.	.	1,209.09	6,438	47%	25,573
Marquette County	6,086	9%	37.464	\$23,760	18	0%	1,826.78	6,068	22%	15,299
Mason County	9,591	34%	56.638	\$23,563	.	.	1,268.70	9,591	55%	35.63
Mecosta County	11,559	28%	74.816	\$19,783	47	0%	1,531.39	11,512	42%	49,949
Menominee County	8,507	38%	21.606	\$22,705	.	.	2,156.84	8,507	60%	13.73
Midland County	8,797	10%	163.627	\$29,408	.	.	1,432.51	8,797	24%	74,693
Missaukee County	10,025	70%	25.235	\$20,594	.	.	.	10,025	70%	25,235
Monroe County	13,021	8%	282.66	\$26,617	966	1%	1,435.81	12,055	21%	119,698
Montcalm County	10,685	17%	88.921	\$19,371	.	.	1,611.65	10,685	20%	75,493
Montmorency County	7,922	90%	16.125	\$20,209	.	.	.	7,922	90%	16,125
Muskegon County	16,335	9%	348.367	\$21,037	5,525	4%	1,413.92	10,810	27%	99,962
Newaygo County	25,058	53%	58.09	\$20,713	58	1%	1,177.57	25,000	63%	49,004
Oakland County	40,235	3%	1,409.76	\$37,089	34,142	3%	2,139.25	6,093	10%	180,543
Oceana County	14,662	59%	48.62	\$19,459	220	8%	1,276.04	14,442	65%	43,548
Ogemaw County	3,013	15%	36.563	\$20,600	.	.	.	3,013	15%	36,563
Ontonagon County	229	4%	4.269	\$21,364	.	.	.	229	4%	4,269
Osceola County	15,696	71%	39.005	\$18,670	.	.	.	15,696	71%	39,005
Oscoda County	5,032	66%	13.51	\$18,611	.	.	.	5,032	66%	13,51
Otsego County	6,116	27%	44.797	\$24,695	.	.	788.428	6,116	41%	29,762
Ottawa County	5,693	2%	497.216	\$25,919	373	0%	1,673.58	5,320	10%	129,827
Presque Isle County	8,217	68%	18.443	\$22,938	.	.	1,632.60	8,217	83%	14,997
Roscommon County	1,080	5%	43.321	\$23,074	.	.	863.474	1,080	7%	29,023
Saginaw County	11,609	6%	240.865	\$22,891	.	.	1,617.41	11,609	19%	84,909
St. Clair County	33,376	20%	226.454	\$24,820	1,769	2%	1,430.85	31,607	50%	97,156
St. Joseph County	14,822	25%	120.05	\$21,122	583	2%	1,104.97	14,239	45%	67,157
Sanilac County	30,246	74%	42.194	\$21,298	2,712	68%	1,255.00	27,534	75%	38,172
Schoolcraft County	3,053	40%	6.548	\$21,038	.	.	926.015	3,053	68%	3,821
Shiawassee County	15,694	23%	129.703	\$23,206	744	2%	1,682.36	14,950	40%	73,43
Tuscola County	19,098	36%	65.983	\$21,449	.	.	1,285.98	19,098	43%	55,843
Van Buren County	29,359	39%	123.264	\$22,034	5,228	24%	1,024.83	24,131	46%	90,082
Washtenaw County	23,528	7%	500.56	\$34,258	9,137	3%	2,191.69	14,391	25%	100,108
Wayne County	59,180	3%	2,845.44	\$22,643	58,838	3%	3,158.52	342	3%	188,19
Wexford County	10,249	31%	58.664	\$20,473	.	.	1,361.63	10,249	48%	38,192
Minnesota	641,787	12%	68.543	.	59,140	1%	2,405.66	582,647	43%	17,397
Aitkin County	10,438	70%	8.22	\$25,378	.	.	.	10,438	70%	8,22
Anoka County	8,275	2%	820.773	\$31,474	3,384	1%	1,946.82	4,891	10%	174,071
Becker County	7,630	24%	24.139	\$25,899	56	1%	1,387.39	7,574	32%	18,132
Beltrami County	1,172	3%	18.089	\$22,120	.	.	1,338.49	1,172	4%	12,133
Benton County	8,029	20%	97.276	\$24,791	342	1%	2,292.83	7,687	50%	38,827
Big Stone County	1,739	40%	8.657	\$27,698	.	.	.	1,739	40%	8,657
Blue Earth County	4,299	6%	89.572	\$26,181	105	0%	2,263.66	4,194	25%	23,118
Brown County	5,765	23%	40.269	\$27,801	458	3%	1,938.45	5,307	68%	12,956
Carlton County	11,582	32%	41.667	\$24,508	747	5%	1,246.93	10,835	55%	23,044
Carver County	12,440	12%	286.954	\$38,638	1,793	2%	2,124.06	10,647	59%	57,56
Cass County	9,863	36%	13.53	\$25,525	.	.	.	9,863	36%	13,53
Chippewa County	2,908	27%	18.444	\$26,402	12	0%	1,516.21	2,896	60%	8,379
Chisago County	17,050	30%	137.8	\$29,293	950	4%	1,231.47	16,100	51%	80,304
Clay County	11,956	19%	60.96	\$25,398	422	1%	2,725.26	11,534	70%	15,986
Clearwater County	7,503	96%	7.785	\$22,773	.	.	.	7,503	96%	7,785
Cook County	55	1%	3.413	\$33,598	.	.	.	55	1%	3,413
Cottonwood County	3,134	32%	15.368	\$24,275	.	.	1,829.45	3,134	57%	8,682
Crow Wing County	10,438	16%	64.812	\$26,974	13	0%	1,214.17	10,425	26%	41,475

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Dakota County	10,572	2%	758.749	\$35,755	2,385	1%	2,459.79	8,187	41%	50.564
Dodge County	.	.	45.304	\$29,786	.	.	1,774.19	.	.	21.978
Douglas County	12,861	34%	58.723	\$28,755	1,054	6%	1,213.94	11,807	61%	31.161
Faribault County	5,188	45%	16.033	\$25,834	1,566	57%	1,572.74	3,622	42%	12.216
Fillmore County	18,728	99%	21.879	\$26,051	1,305	100%	1,771.68	17,423	99%	20.381
Freeborn County	671	2%	41.155	\$26,083	.	.	1,797.09	671	6%	16.345
Goodhue County	16,057	34%	61.516	\$30,408	3,848	15%	1,798.04	12,209	57%	28.996
Grant County	2,596	50%	9.468	\$27,195	.	.	.	2,596	50%	9.468
Hennepin County	13,863	1%	2,174.26	\$38,125	8,875	1%	3,246.51	4,988	19%	138.352
Houston County	11,542	64%	32.765	\$26,719	2,610	33%	1,754.37	8,932	88%	18.455
Hubbard County	1,805	9%	21.512	\$25,050	.	.	1,431.81	1,805	11%	18.028
Isanti County	17,121	43%	92.358	\$26,406	573	4%	1,619.30	16,548	68%	56.828
Itasca County	11,358	26%	16.267	\$24,578	.	.	1,173.12	11,358	33%	12.764
Jackson County	2,224	26%	12.18	\$27,942	3	0%	1,188.40	2,221	41%	7.819
Kanabec County	11,401	71%	30.89	\$22,705	569	15%	1,511.43	10,832	87%	23.886
Kandiyohi County	9,627	23%	52.787	\$27,550	131	1%	1,716.34	9,496	54%	22.671
Kittson County	3,181	97%	2.979	\$27,867	.	.	.	3,181	97%	2.979
Koochiching County	3,080	27%	3.726	\$24,993	262	4%	908.649	2,818	53%	1.717
Lac qui Parle County	1,374	26%	6.889	\$28,913	.	.	.	1,374	26%	6.889
Lake County	3,732	37%	4.793	\$28,058	60	2%	2,481.82	3,672	55%	3.186
Lake of the Woods County	1,555	48%	2.496	\$23,073	.	.	.	1,555	48%	2.496
Le Sueur County	1,996	7%	63.085	\$28,179	108	1%	1,851.71	1,888	11%	38.909
Lincoln County	2,630	57%	8.581	\$25,764	.	.	.	2,630	57%	8.581
Lyon County	6,773	27%	35.106	\$27,787	.	.	2,082.96	6,773	63%	15.263
McLeod County	14,094	38%	74.56	\$27,330	5,859	29%	2,157.19	8,235	50%	34.398
Mahnomen County	1,576	34%	8.4	\$19,175	.	.	.	1,576	34%	8.4
Marshall County	5,696	77%	4.18	\$27,877	.	.	.	5,696	77%	4.18
Martin County	7,466	39%	26.65	\$27,629	365	4%	1,479.88	7,101	75%	13.397
Meeker County	11,141	50%	36.348	\$26,726	311	4%	1,830.66	10,830	78%	23.134
Mille Lacs County	13,504	50%	46.929	\$23,510	587	7%	1,882.82	12,917	69%	33.173
Morrison County	14,220	44%	29.026	\$24,091	38	0%	1,429.78	14,182	60%	21.151
Mower County	1,418	4%	52.704	\$25,209	.	.	2,089.32	1,418	12%	17.092
Murray County	3,164	46%	9.73	\$29,107	.	.	.	3,164	46%	9.73
Nicollet County	8,060	24%	75.004	\$27,561	1,470	6%	2,650.46	6,590	81%	18.457
Nobles County	4,399	21%	28.677	\$23,068	454	3%	2,655.12	3,945	59%	9.493
Norman County	3,167	62%	5.826	\$24,886	.	.	.	3,167	62%	5.826
Olmsted County	9,350	6%	239.789	\$34,891	1,950	1%	2,325.57	7,400	30%	41.704
Otter Tail County	17,266	32%	27.705	\$27,379	.	.	1,879.59	17,266	44%	20.11
Pennington County	2,676	21%	21.11	\$25,584	69	1%	1,396.95	2,607	59%	7.226
Pine County	15,300	52%	20.79	\$22,129	384	12%	1,477.55	14,916	57%	18.535
Pipestone County	2,239	28%	17.467	\$25,102	133	3%	1,960.81	2,106	50%	9.102
Polk County	12,049	40%	15.124	\$25,823	1,031	6%	2,046.81	11,018	82%	6.819
Pope County	3,771	38%	14.9	\$29,260	.	.	.	3,771	38%	14.9
Ramsey County	7,304	1%	3,437.36	\$30,076	7,281	1%	3,530.15	23	2%	244.28
Red Lake County	2,063	64%	7.463	\$24,278	.	.	.	2,063	64%	7.463
Redwood County	8,133	63%	14.723	\$26,119	130	3%	1,657.16	8,003	95%	9.65
Renville County	5,654	46%	12.446	\$28,228	.	.	.	5,654	46%	12.446
Rice County	1,733	3%	135.772	\$26,192	23	0%	2,292.86	1,710	10%	35.614
Rock County	2,402	28%	17.799	\$25,586	81	2%	2,347.28	2,321	60%	8.053
Roseau County	6,440	47%	8.125	\$25,787	.	.	1,014.96	6,440	58%	6.611
St. Louis County	38,043	19%	31.938	\$26,510	1,635	1%	1,784.38	36,408	51%	11.539
Scott County	11,767	8%	408.838	\$35,690	1,426	1%	2,176.76	10,341	45%	76.355
Sherburne County	7,619	8%	229.492	\$29,440	138	0%	1,576.16	7,481	17%	108.792
Sibley County	6,567	48%	23.274	\$26,709	.	.	.	6,567	48%	23.274
Stearns County	21,301	14%	116.396	\$26,502	308	0%	2,210.35	20,993	38%	42.702
Steele County	.	.	89.25	\$27,596	.	.	2,164.72	.	.	25.821
Stevens County	1,943	22%	15.742	\$27,693	58	1%	1,964.91	1,885	50%	6.688
Swift County	2,443	33%	10.02	\$27,546	.	.	1,569.95	2,443	52%	6.348
Todd County	12,526	54%	24.69	\$23,062	.	.	2,105.50	12,526	69%	19.183
Traverse County	1,374	52%	4.577	\$29,000	.	.	.	1,374	52%	4.577
Wabasha County	7,248	35%	39.46	\$29,307	.	.	1,564.42	7,248	56%	25.154
Wadena County	2,684	21%	24.182	\$21,384	.	.	1,693.55	2,684	31%	16.021

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Waseca County			44,159	\$25,991			2,416.63			21,027
Washington County	7,511	3%	677,006	\$37,841	3,102	1%	2,179.89	4,409	12%	129,102
Watsonwan County	2,864	30%	21,952	\$26,298	36	1%	2,031.87	2,828	52%	12,605
Wilkin County	2,306	46%	6,65	\$26,557	305	11%	1,227.89	2,001	88%	3,048
Winona County	7,999	15%	83,091	\$24,050	12	0%	2,426.54	7,987	45%	29,001
Wright County	12,869	9%	215,574	\$30,292	317	0%	1,778.88	12,552	28%	73,133
Yellow Medicine County	6,227	76%	10,776	\$26,487	6	0%	1,852.52	6,221	98%	8,373
Mississippi	1,034,047	34%	64,276		129,674	9%	1,363.18	904,373	60%	32,925
Adams County	7,163	23%	68,539	\$17,656	121	1%	1,205.89	7,042	58%	27,16
Alcorn County	13,281	35%	94,596	\$18,758	472	4%	1,024.72	12,809	50%	65.88
Amite County	12,076	100%	16.54	\$17,140				12,076	100%	16.54
Attala County	9,516	50%	25,712	\$17,894	204	3%	1,257.41	9,312	76%	16,685
Benton County	5,978	66%	22.2	\$19,734				5,978	66%	22.2
Bolivar County	7,675	24%	35,797	\$16,666	377	2%	1,862.90	7,298	45%	18,611
Calhoun County	4,781	34%	24,202	\$17,419				4,781	34%	24,202
Carrroll County	8,489	84%	16,147	\$19,945				8,489	84%	16,147
Chickasaw County	9,307	58%	31,916	\$16,750	24	1%	880.759	9,283	68%	27.41
Choctaw County	6,536	84%	18,514	\$17,359				6,536	84%	18,514
Claiborne County	8,511	98%	17,907	\$11,962				8,511	98%	17,907
Clarke County	14,502	94%	22,412	\$18,584				14,502	94%	22,412
Clay County	7,476	38%	48,323	\$18,797	345	4%	1,307.58	7,131	64%	27,518
Coahoma County	6,474	27%	42,636	\$15,858	500	3%	1,891.43	5,974	80%	13,746
Copiah County	26,848	93%	37,275	\$18,201	9,784	97%	1,238.75	17,064	90%	24,56
Covington County	19,182	100%	46,388	\$16,733				19,182	100%	46,388
DeSoto County	15,683	8%	393.76	\$25,593	3,283	2%	1,582.69	12,400	33%	97,693
Forrest County	14,010	18%	168,91	\$20,075	4,546	8%	1,453.95	9,464	40%	55,005
Franklin County	6,057	80%	13,353	\$21,294				6,057	80%	13,353
George County	16,245	66%	51,505	\$20,979	120	4%	1,103.93	16,125	74%	45,928
Greene County	12,592	86%	20,526	\$15,427				12,592	86%	20,526
Grenada County	4,554	21%	51,243	\$20,594	199	2%	1,146.93	4,355	39%	27,323
Hancock County	13,506	34%	84,135	\$22,774	2,859	13%	993.964	10,647	61%	38,738
Harrison County	12,368	7%	312,042	\$22,224	4,477	3%	1,311.20	7,891	19%	90,094
Hinds County	32,331	13%	285.6	\$20,897	13,630	6%	1,770.58	18,701	51%	49,277
Holmes County	6,554	36%	24,011	\$11,914	22	1%	1,649.40	6,532	41%	20,848
Humphreys County	8,461	100%	20,218	\$12,938	4,288	100%	1,863.15	4,173	100%	10,027
Issaquena County	863	89%	2,341	\$14,548				863	89%	2,341
Itawamba County	20,401	87%	44,156	\$19,238	3,101	97%	947.698	17,300	85%	38,394
Jackson County	15,138	11%	193,509	\$24,162	3,262	3%	1,179.25	11,876	31%	61
Jasper County	13,917	85%	24,207	\$18,398				13,917	85%	24,207
Jefferson County	6,853	99%	13,331	\$12,518				6,853	99%	13,331
Jefferson Davis County	3,466	30%	27,837	\$15,782				3,466	30%	27,837
Jones County	25,770	37%	99,424	\$19,673	2,562	10%	1,353.94	23,208	54%	63,275
Kemper County	9,183	96%	12,527	\$14,837				9,183	96%	12,527
Lafayette County	12,468	24%	80,616	\$21,838	2,462	9%	1,749.53	10,006	44%	37,131
Lamar County	21,839	34%	130,816	\$26,293	2,913	9%	1,070.78	18,926	60%	68,23
Lauderdale County	12,254	15%	115,869	\$21,669	2,978	7%	1,308.26	9,276	24%	58,503
Lawrence County	12,567	100%	29.18	\$20,186				12,567	100%	29.18
Leake County	17,531	73%	41,142	\$17,178	461	10%	1,098.26	17,070	88%	33,561
Lee County	12,626	15%	193,472	\$22,496	2,153	5%	915.561	10,473	26%	99.36
Leflore County	3,686	12%	52.53	\$14,663	900	3%	1,674.95	2,786	61%	7,883
Lincoln County	19,199	53%	61,778	\$18,597	525	5%	1,238.77	18,674	74%	43,784
Lowndes County	7,471	13%	116,299	\$21,213	698	2%	1,156.27	6,773	27%	52,636
Madison County	17,422	16%	150,325	\$34,334	4,831	6%	1,414.22	12,591	42%	45,123
Marion County	27,803	100%	51,288	\$18,712	7,359	100%	1,121.88	20,444	100%	38,182
Marshall County	18,980	49%	55,112	\$18,526	1,091	18%	1,397.37	17,889	55%	46,762
Monroe County	14,894	42%	46,579	\$18,576	175	2%	1,248.98	14,719	59%	33,203
Montgomery County	3,007	31%	24,183	\$16,761	58	1%	1,274.23	2,949	51%	14,192
Neshoba County	12,202	40%	53,303	\$18,888	139	2%	1,151.28	12,063	54%	39,819
Newton County	13,757	66%	36,023	\$21,157	111	4%	922.083	13,646	75%	31,536
Noxbee County	10,860	100%	15,623	\$14,070	2,788	100%	1,314.08	8,072	100%	11,648
Oktibbeha County	13,332	26%	110,314	\$20,766	3,940	12%	1,912.72	9,392	52%	40,759
Panola County	16,783	48%	51,001	\$19,319	338	4%	924.524	16,445	60%	40,368

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Pearl River County	17,381	28%	76.3	\$20,117	27	0%	1,070.17	17,354	40%	54.571
Perry County	11,294	96%	18.254	\$16,814	.	.	.	11,294	96%	18.254
Pike County	12,928	32%	100.062	\$17,671	460	3%	1,273.37	12,468	51%	61.721
Pontotoc County	17,407	57%	61.55	\$19,481	65	1%	864.514	17,342	68%	52.148
Prentiss County	8,945	36%	60.49	\$17,595	127	2%	1,064.29	8,818	46%	46.695
Quitman County	2,540	39%	16.13	\$14,685	114	4%	1,178.90	2,426	66%	9.064
Rankin County	15,357	10%	204.175	\$27,508	4,444	4%	1,290.93	10,913	21%	76.289
Scott County	27,297	98%	45.71	\$16,965	7,569	96%	1,318.96	19,728	99%	33.095
Sharkey County	3,945	100%	9.138	\$15,600	.	.	.	3,945	100%	9.138
Simpson County	24,667	92%	45.458	\$18,728	3,596	91%	1,363.76	21,071	92%	38.951
Smith County	14,812	94%	24.71	\$21,173	.	.	.	14,812	94%	24.71
Stone County	11,616	59%	44.275	\$19,130	142	4%	1,074.53	11,474	73%	35.664
Sunflower County	11,112	40%	39.934	\$13,936	1,486	10%	2,102.81	9,626	76%	18.284
Tallahatchie County	6,237	44%	22.009	\$13,460	47	2%	1,342.06	6,190	53%	18.063
Tate County	18,390	60%	76.285	\$21,795	1,003	14%	1,795.88	17,387	73%	59.646
Tippah County	19,162	85%	49.042	\$18,954	3,499	99%	1,090.29	15,663	83%	41.647
Tishomingo County	8,744	46%	44.794	\$18,350	.	.	.	8,744	46%	44.794
Tunica County	5,375	52%	22.579	\$15,298	351	10%	2,023.01	5,024	73%	15.175
Union County	11,005	40%	66.841	\$19,116	275	4%	1,104.59	10,730	51%	51.527
Walthall County	15,432	100%	38.203	\$17,684	.	.	.	15,432	100%	38.203
Warren County	22,527	47%	82.285	\$22,368	6,384	23%	1,158.22	16,143	80%	35.632
Washington County	10,962	23%	65.12	\$16,738	7,366	18%	1,559.85	3,596	49%	10.509
Wayne County	19,453	98%	24.527	\$19,040	3,964	100%	934.977	15,489	97%	19.741
Webster County	8,823	89%	23.55	\$20,392	.	.	.	8,823	89%	23.55
Wilkinson County	9,601	100%	14.159	\$16,458	.	.	.	9,601	100%	14.159
Winston County	9,099	49%	30.538	\$19,172	26	1%	1,180.45	9,073	65%	23.105
Yalobusha County	5,557	47%	25.453	\$18,727	39	2%	1,102.01	5,518	59%	20.265
Yazoo County	9,951	36%	30.257	\$14,269	594	4%	1,888.27	9,357	80%	12.824
Missouri	1,257,622	20%	89.264	.	204,409	5%	2,141.01	1,053,213	61%	26.061
Adair County	6,325	25%	43.756	\$19,076	1,051	7%	2,389.16	5,274	57%	16.391
Andrew County	2,788	16%	39.105	\$26,086	76	1%	1,962.44	2,712	27%	23.218
Atchison County	4,496	100%	8.215	\$25,538	.	.	.	4,496	100%	8.215
Audrain County	7,305	31%	34.51	\$19,797	1,382	9%	2,096.84	5,923	65%	13.229
Barry County	17,673	52%	43.965	\$19,680	624	7%	1,278.49	17,049	68%	32.288
Barton County	6,729	65%	17.546	\$20,275	3,808	93%	1,479.62	2,921	47%	10.654
Bates County	11,066	73%	18.105	\$21,369	118	3%	1,714.70	10,948	95%	13.755
Benton County	13,603	76%	25.539	\$19,412	2,461	100%	956.396	11,142	72%	22.124
Bollinger County	11,506	99%	18.817	\$20,186	.	.	.	11,506	99%	18.817
Boone County	25,320	14%	258.508	\$27,098	5,668	4%	2,217.09	19,652	61%	51.721
Buchanan County	8,621	10%	220.846	\$22,839	4,670	6%	2,064.41	3,951	34%	31.091
Butler County	27,295	66%	59.854	\$19,186	11,358	56%	1,286.23	15,937	75%	31.492
Caldwell County	8,076	98%	19.32	\$22,135	.	.	.	8,076	98%	19.32
Callaway County	15,423	34%	54.247	\$22,901	364	2%	1,586.45	15,059	54%	33.852
Camden County	14,673	32%	69.915	\$23,251	.	.	762.613	14,673	44%	52.683
Cape Girardeau County	11,755	15%	136.605	\$23,684	68	0%	1,596.49	11,687	49%	43.821
Carroll County	3,607	47%	10.946	\$23,424	131	4%	1,379.67	3,476	75%	6.656
Carter County	6,083	100%	12.043	\$19,318	.	.	.	6,083	100%	12.043
Cass County	26,224	25%	153.534	\$28,013	827	1%	2,004.17	25,397	78%	49.501
Cedar County	4,659	37%	26.549	\$17,744	4	0%	1,666.06	4,655	49%	19.914
Chariton County	3,499	58%	8.058	\$20,300	.	.	.	3,499	58%	8.058
Christian County	16,079	18%	162.045	\$25,428	2,965	6%	1,826.07	13,114	33%	74.211
Clark County	5,835	100%	11.562	\$23,583	.	.	.	5,835	100%	11.562
Clay County	15,350	6%	622.686	\$29,455	664	0%	2,205.69	14,686	64%	77.99
Clinton County	11,361	56%	48.595	\$25,307	343	7%	1,833.00	11,018	71%	37.423
Cole County	18,680	23%	203.431	\$26,254	2,358	4%	1,604.37	16,322	71%	64.166
Cooper County	13,934	82%	30.218	\$23,193	6,237	76%	1,791.27	7,697	87%	15.839
Crawford County	5,910	24%	33.388	\$19,099	46	1%	1,230.75	5,864	33%	24.346
Dade County	3,584	57%	12.885	\$20,360	.	.	.	3,584	57%	12.885
Dallas County	15,245	88%	31.895	\$17,663	3,111	100%	1,462.42	12,134	86%	26.246
Daviness County	3,471	50%	12.352	\$19,726	.	.	.	3,471	50%	12.352
DeKalb County	7,065	62%	27.074	\$17,288	3,496	71%	3,411.76	3,569	55%	15.448
Dent County	7,319	47%	20.666	\$19,589	.	.	1,323.86	7,319	67%	14.624

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Douglas County	10,403	79%	16,216	\$16,780	267	10%	1,324.60	10,136	97%	12,847
Dunklin County	18,323	63%	53,984	\$18,158	8,330	57%	1,620.24	9,993	68%	27,426
Franklin County	29,443	28%	115,453	\$24,732	616	1%	1,622.48	28,827	49%	65,838
Gasconade County	14,211	100%	27,503	\$22,067	2,710	100%	1,423.19	11,501	100%	22,342
Gentry County	2,045	37%	11,225	\$20,223	.	.	.	2,045	37%	11,225
Greene County	31,241	10%	440,963	\$23,765	22,802	9%	2,122.59	8,439	21%	73,666
Grundy County	8,528	94%	20,837	\$19,299	4,590	90%	1,440.53	3,938	99%	9,214
Harrison County	3,373	43%	10,949	\$19,648	.	.	1,764.62	3,373	65%	7,222
Henry County	11,168	54%	29,714	\$22,230	2,345	22%	1,617.27	8,823	90%	14,232
Hickory County	9,140	100%	22,902	\$17,804	.	.	.	9,140	100%	22,902
Holt County	3,833	100%	8,319	\$23,917	.	.	.	3,833	100%	8,319
Howard County	9,348	100%	20,153	\$23,082	3,481	100%	1,280.32	5,867	100%	12,723
Howell County	26,771	64%	44,965	\$18,771	2	0%	1,445.17	26,769	89%	32,651
Iron County	4,343	44%	17,993	\$19,984	.	.	1,161.37	4,343	59%	13,483
Jackson County	17,939	3%	1,145.77	\$26,328	4,825	1%	2,432.21	13,114	52%	76,942
Jasper County	16,369	13%	194,856	\$21,904	1,821	2%	1,498.15	14,548	50%	50,375
Jefferson County	14,899	6%	356,533	\$25,034	796	0%	1,448.20	14,103	20%	128,364
Johnson County	21,353	41%	62,976	\$22,394	36	0%	1,482.16	21,317	82%	31,965
Knox County	3,217	100%	6,383	\$22,363	.	.	.	3,217	100%	6,383
Laclede County	16,783	45%	48,984	\$19,218	13	0%	1,245.93	16,770	76%	29,503
Lafayette County	25,042	78%	51,181	\$24,175	8,256	59%	2,081.29	16,786	93%	29,181
Lawrence County	10,315	27%	62,976	\$19,463	1,088	7%	1,556.97	9,227	41%	37,124
Lewis County	8,967	100%	17,755	\$19,514	.	.	.	8,967	100%	17,755
Lincoln County	26,417	44%	96,518	\$22,006	.	.	1,800.78	26,417	59%	72,553
Linn County	6,084	56%	17,602	\$18,989	3,588	90%	1,357.97	2,496	36%	11,175
Livingston County	6,204	42%	27,765	\$21,882	1,633	17%	1,269.83	4,571	88%	9,903
McDonald County	7,816	35%	41,686	\$18,093	2	100%	7,996	7,814	35%	41,702
Macon County	13,209	91%	18,076	\$19,970	4,939	100%	1,646.92	8,270	87%	11,956
Madison County	6,049	49%	25.12	\$17,459	.	.	1,922.94	6,049	76%	16,112
Maries County	6,167	70%	16,786	\$21,316	.	.	.	6,167	70%	16,786
Marion County	5,553	19%	65,291	\$22,731	.	.	1,852.03	5,553	80%	16,312
Mercer County	1,095	34%	7,106	\$19,906	.	.	.	1,095	34%	7,106
Miller County	9,204	38%	41,013	\$19,969	11	0%	1,567.25	9,193	47%	33,044
Mississippi County	1,259	9%	33,719	\$15,032	4	0%	1,669.44	1,255	29%	10,779
Moniteau County	2,114	14%	36,783	\$19,540	.	.	2,066.56	2,114	27%	19,359
Monroe County	3,446	47%	11,369	\$20,303	.	.	.	3,446	47%	11,369
Montgomery County	5,550	51%	20,237	\$20,529	.	.	1,470.25	5,550	67%	15,517
Morgan County	5,166	26%	33,767	\$18,445	.	.	.	5,166	26%	33,767
New Madrid County	6,186	37%	25,077	\$20,896	1,453	19%	1,573.88	4,733	52%	13,644
Newton County	25,559	44%	93,734	\$22,382	10,735	51%	1,177.65	14,824	40%	61,551
Nodaway County	6,292	29%	24,422	\$18,329	1,098	8%	2,454.93	5,194	64%	9,327
Oregon County	10,359	100%	13,153	\$16,877	1,961	100%	1,303.48	8,398	100%	10,69
Osage County	13,713	100%	22,763	\$23,362	.	.	.	13,713	100%	22,763
Ozark County	8,929	100%	11,986	\$17,324	.	.	.	8,929	100%	11,986
Pemiscot County	14,979	91%	33,569	\$17,387	8,358	98%	1,872.48	6,621	83%	16,345
Perry County	9,090	47%	40,584	\$23,539	11	0%	1,332.06	9,079	86%	22,6
Pettis County	13,899	34%	59,985	\$20,571	1,214	5%	1,357.02	12,685	83%	23,138
Phelps County	15,134	33%	67,587	\$20,900	.	.	1,930.02	15,134	74%	31,196
Pike County	15,570	91%	25,653	\$18,738	8,030	100%	1,988.59	7,540	82%	13,723
Platte County	7,672	8%	228,706	\$35,333	45	0%	1,430.82	7,627	54%	38,797
Polk County	6,471	20%	50,502	\$19,357	15	0%	1,916.52	6,456	30%	34,612
Pulaski County	45,673	86%	97,173	\$20,019	30,496	100%	1,176.01	15,177	67%	43,493
Putnam County	1,100	28%	7,649	\$20,069	.	.	.	1,100	28%	7,649
Ralls County	7,733	79%	20,871	\$23,588	.	.	527,223	7,733	82%	20,034
Randolph County	8,502	34%	51,073	\$18,263	.	.	1,585.62	8,502	77%	23,363
Rav County	10,718	47%	39,713	\$23,957	189	3%	1,298.94	10,529	62%	30,023
Reynolds County	3,982	66%	7,447	\$18,791	.	.	.	3,982	66%	7,447
Ripley County	10,900	79%	21,807	\$16,843	.	.	.	10,900	79%	21,807
St. Charles County	14,921	4%	710,641	\$32,473	524	0%	2,622.19	14,397	63%	54,794
St. Clair County	8,551	100%	12,763	\$18,098	.	.	.	8,551	100%	12,763
St. Genevieve County	12,495	70%	35,817	\$23,780	.	.	1,739.11	12,495	92%	27,391
St. Francois County	9,996	14%	153,552	\$19,044	.	.	1,846.77	9,996	37%	63,701

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
St. Louis County	3,788	0%	1,985.53	\$35,388	194	0%	2,621.12	3,594	33%	85.096
Saline County	8,071	38%	28.269	\$19,774	2	0%	2,004.88	8,069	91%	11.898
Schuyler County	3,848	100%	12.522	\$18,631	.	.	.	3,848	100%	12.522
Scotland County	2,360	57%	9.513	\$20,556	.	.	.	2,360	57%	9.513
Scott County	3,974	10%	90.609	\$20,637	.	.	1,841.23	3,974	25%	38.67
Shannon County	8,045	100%	8.051	\$18,931	.	.	.	8,045	100%	8.051
Shelby County	2,940	60%	9.839	\$20,256	.	.	.	2,940	60%	9.839
Stoddard County	17,761	63%	34.371	\$23,923	3,541	41%	1,480.73	14,220	72%	24.053
Stone County	12,790	40%	68.762	\$21,555	186	5%	654.294	12,604	45%	61.679
Sullivan County	1,520	29%	8.133	\$19,856	.	.	.	1,520	29%	8.133
Taney County	14,009	24%	92.297	\$19,844	2,638	8%	974.586	11,371	44%	43.031
Texas County	23,036	91%	21.61	\$18,178	207	100%	1,653.92	22,829	90%	21.437
Vernon County	3,332	17%	23.721	\$20,406	.	.	1,495.66	3,332	30%	13.734
Warren County	13,032	36%	85.578	\$25,138	182	1%	1,656.55	12,850	56%	54.209
Washington County	22,024	87%	33.441	\$17,565	4,199	87%	1,742.85	17,825	86%	27.223
Wayne County	10,511	81%	17.046	\$18,707	.	.	.	10,511	81%	17.046
Webster County	18,670	48%	65.441	\$20,183	593	6%	1,905.65	18,077	64%	48.191
Worth County	581	37%	5.964	\$23,730	.	.	.	581	37%	5.964
Wright County	15,828	84%	27.511	\$16,026	4,421	98%	1,729.36	11,407	80%	20.98
St. Louis city	132	0%	5,151.75	\$23,244	132	0%	5,166.20	.	.	11.526
Montana	317,581	31%	7.044	.	54,888	9%	2,004.43	262,693	61%	2.957
Beaverhead County	2,615	30%	1.586	\$25,294	.	.	1,937.94	2,615	59%	0.796
Big Horn County	7,467	65%	2.288	\$16,279	3,007	100%	2,295.25	4,460	53%	1.686
Blaine County	2,286	40%	1.361	\$17,529	.	.	.	2,286	40%	1.361
Broadwater County	3,990	67%	4.961	\$27,243	.	.	.	3,990	67%	4.961
Carbon County	6,689	75%	4.375	\$27,808	.	.	.	6,689	75%	4.375
Carter County	755	100%	0.226	\$28,271	.	.	.	755	100%	0.226
Cascade County	12,566	15%	30.883	\$25,216	649	1%	2,173.43	11,917	76%	5.887
Chouteau County	1,552	31%	1.263	\$23,085	.	.	.	1,552	31%	1.263
Custer County	11,196	96%	3.074	\$24,876	9,105	95%	1,359.05	2,091	100%	0.554
Daniels County	.	.	0.814	\$32,686	.	.	.	.	.	0.814
Dawson County	8,615	100%	3.632	\$27,244	6,446	100%	1,452.29	2,169	100%	0.916
Deer Lodge County	2,341	27%	11.936	\$23,951	.	.	2,380.19	2,341	76%	4.182
Fallon County	2,337	100%	1.442	\$32,353	.	.	.	2,337	100%	1.442
Fergus County	10,415	95%	2.535	\$25,867	5,926	100%	2,694.39	4,489	88%	1.17
Flathead County	21,905	21%	20.119	\$25,789	.	.	1,872.71	21,905	42%	10.424
Gallatin County	17,136	17%	39.833	\$29,468	362	1%	2,162.62	16,774	52%	12.6
Garfield County	900	100%	0.192	\$27,218	.	.	.	900	100%	0.192
Glacier County	9,586	77%	4.135	\$16,710	4,804	68%	2,453.73	4,782	91%	1.761
Golden Valley County	607	100%	0.517	\$23,356	.	.	.	607	100%	0.517
Granite County	2,657	100%	1.538	\$26,868	.	.	.	2,657	100%	1.538
Hill County	1,647	11%	5.316	\$21,119	.	.	2,231.42	1,647	28%	2.061
Jefferson County	5,776	49%	7.134	\$30,721	.	.	.	5,776	49%	7.134
Judith Basin County	947	69%	0.729	\$26,274	.	.	.	947	69%	0.729
Lake County	12,358	45%	18.418	\$21,927	5	0%	1,613.96	12,353	54%	15.377
Lewis and Clark County	1,983	3%	19.854	\$28,651	.	.	1,735.14	1,983	10%	5.752
Liberty County	1,775	99%	1.25	\$24,908	.	.	.	1,775	99%	1.25
Lincoln County	13,134	68%	5.361	\$22,464	3,761	100%	1,301.34	9,373	60%	4.324
McCone County	1,253	100%	0.474	\$29,428	.	.	.	1,253	100%	0.474
Madison County	6,806	94%	2.009	\$33,124	.	.	.	6,806	94%	2.009
Meagher County	519	35%	0.621	\$19,561	.	.	.	519	35%	0.621
Mineral County	3,971	100%	3.256	\$20,363	.	.	.	3,971	100%	3.256
Missoula County	12,974	11%	46.201	\$26,559	526	1%	2,001.91	12,448	48%	10.214
Musselshell County	4,362	100%	2.335	\$23,309	.	.	.	4,362	100%	2.335
Park County	6,183	40%	5.494	\$25,818	.	.	1,978.06	6,183	84%	2.634
Petroleum County	310	100%	0.187	\$22,567	.	.	.	310	100%	0.187
Phillips County	1,677	53%	0.62	\$22,450	.	.	.	1,677	53%	0.62
Pondera County	4,991	98%	3.152	\$22,868	2,234	100%	1,788.05	2,757	96%	1.777
Powder River County	1,277	100%	0.387	\$28,849	.	.	.	1,277	100%	0.387
Powell County	3,209	49%	2.791	\$20,650	1	0%	2,077.95	3,208	93%	1.478
Prairie County	823	100%	0.474	\$22,028	.	.	.	823	100%	0.474
Ravalli County	26,202	62%	17.784	\$22,516	73	1%	1,522.64	26,129	72%	15.131

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Richland County	9,883	99%	4.781	\$31,840	5,791	100%	1,460.95	4,092	98%	2,006
Roosevelt County	8,571	94%	3.864	\$16,720	5,783	100%	2,246.37	2,788	84%	1,409
Rosebud County	8,752	100%	1.747	\$23,118	.	.	.	8,752	100%	1,747
Sanders County	10,729	100%	3.887	\$19,145	.	.	.	10,729	100%	3,887
Sheridan County	1,681	70%	1.442	\$31,642	.	.	.	1,681	70%	1,442
Silver Bow County	3,739	11%	48.802	\$23,698	519	2%	1,893.06	3,220	84%	5,467
Stillwater County	5,528	62%	4.928	\$29,298	.	.	.	5,528	62%	4,928
Sweet Grass County	1,370	41%	1.814	\$24,437	.	.	.	1,370	41%	1,814
Teton County	4,568	89%	2.257	\$23,871	.	.	.	4,568	89%	2,257
Toole County	4,525	99%	2.381	\$22,837	2,953	100%	2,037.04	1,572	98%	0.84
Treasure County	460	100%	0.471	\$22,419	.	.	.	460	100%	0.471
Valley County	5,981	95%	1.275	\$26,331	2,837	100%	694.301	3,144	91%	0.7
Wheatland County	1,107	59%	1.32	\$18,935	.	.	.	1,107	59%	1.32
Wibaux County	744	100%	0.837	\$25,112	.	.	.	744	100%	0.837
Yellowstone County	12,151	7%	61.824	\$28,918	106	0%	2,288.49	12,045	45%	10,341
Nebraska	304,018	16%	24.433	.	94,847	6%	2,802.83	209,171	51%	5,353
Adams County	1,179	4%	56.568	\$27,001	.	.	2,966.70	1,179	19%	11,019
Antelope County	4,024	83%	5.687	\$26,312	.	.	.	4,024	83%	5,687
Arthur County	373	100%	0.521	\$18,709	.	.	.	373	100%	0.521
Banner County	481	100%	0.645	\$33,226	.	.	.	481	100%	0.645
Blaine County	307	100%	0.432	\$23,684	.	.	.	307	100%	0.432
Boone County	2,261	55%	5.944	\$25,985	.	.	.	2,261	55%	5,944
Box Butte County	461	5%	9.464	\$24,865	1	0%	1,724.00	460	21%	2,012
Boyd County	427	30%	2.606	\$22,783	.	.	.	427	30%	2,606
Brown County	2,144	85%	2.067	\$24,287	.	.	.	2,144	85%	2,067
Buffalo County	4,337	9%	49.681	\$25,154	5	0%	2,581.08	4,332	31%	14,449
Burt County	4,292	84%	10.334	\$24,841	.	.	.	4,292	84%	10,334
Butler County	1,556	24%	10.952	\$28,525	.	.	2,049.08	1,556	42%	6,407
Cass County	2,684	11%	43.613	\$30,413	4	0%	2,231.64	2,680	15%	31,605
Cedar County	4,371	66%	8.934	\$26,702	.	.	.	4,371	66%	8,934
Chase County	2,256	68%	3.707	\$30,881	.	.	.	2,256	68%	3,707
Cherry County	4,689	100%	0.789	\$24,942	2,503	100%	1,364.10	2,186	100%	0,367
Cheyenne County	1,985	22%	7.409	\$29,728	.	.	1,925.81	1,985	74%	2,251
Clay County	1,172	25%	8.345	\$25,664	.	.	.	1,172	25%	8,345
Colfax County	7,313	75%	23.685	\$23,688	4,300	64%	2,640.84	3,013	99%	7,453
Cuming County	2,976	41%	12.644	\$25,363	54	2%	1,816.89	2,922	66%	7,837
Custer County	7,341	87%	3.279	\$26,105	2,167	69%	1,656.92	5,174	98%	2,056
Dakota County	2,817	13%	83.484	\$20,735	1,187	7%	1,695.95	1,630	42%	15,327
Dawes County	7,120	88%	5.772	\$22,654	4,646	90%	2,703.53	2,474	85%	2,081
Dawson County	3,212	14%	22.825	\$21,046	.	.	2,383.47	3,212	61%	5,272
Deuel County	1,096	81%	3.074	\$28,163	.	.	.	1,096	81%	3,074
Dixon County	1,825	34%	11.224	\$24,173	.	.	.	1,825	34%	11,224
Dodge County	26,681	72%	70.101	\$24,754	19,995	68%	2,706.58	6,686	88%	14.6
Douglas County	8,197	1%	1,764.82	\$29,123	5,177	1%	3,363.69	3,020	25%	75,965
Dundy County	417	30%	1.501	\$29,111	.	.	.	417	30%	1,501
Fillmore County	994	21%	8.11	\$26,873	.	.	.	994	21%	8.11
Franklin County	1,582	69%	4.001	\$26,349	.	.	.	1,582	69%	4,001
Frontier County	1,841	97%	1.952	\$25,361	.	.	.	1,841	97%	1,952
Furnas County	2,562	72%	4.959	\$22,554	.	.	.	2,562	72%	4,959
Gage County	2,444	12%	24.357	\$25,166	.	.	1,885.45	2,444	30%	9,563
Garden County	1,324	100%	0.777	\$28,149	.	.	.	1,324	100%	0,777
Garfield County	1,762	99%	3.11	\$21,939	.	.	.	1,762	99%	3.11
Gosper County	1,286	83%	3.39	\$24,856	.	.	.	1,286	83%	3.39
Grant County	468	100%	0.603	\$21,471	.	.	.	468	100%	0,603
Greeley County	1,678	90%	3.287	\$23,902	.	.	.	1,678	90%	3,287
Hall County	3,818	6%	113.651	\$24,075	6	0%	1,967.99	3,812	50%	14,739
Hamilton County	7,004	91%	14.108	\$28,982	4,192	100%	1,987.03	2,812	81%	6,411
Harlan County	2,535	99%	4.604	\$24,417	.	.	.	2,535	99%	4,604
Hayes County	670	100%	0.94	\$24,590	.	.	.	670	100%	0.94
Hitchcock County	2,327	100%	3.292	\$22,958	.	.	.	2,327	100%	3,292
Holt County	7,867	90%	3.607	\$24,624	3,580	100%	1,716.21	4,287	84%	2,125
Hooker County	639	100%	0.886	\$22,940	.	.	.	639	100%	0,886

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Howard County	2,685	51%	9.265	\$27,363	.	.	.	2,685	51%	9.265
Jefferson County	1,567	25%	10.867	\$25,291	5	0%	1,791.49	1,562	60%	4.567
Johnson County	1,899	42%	11.961	\$20,624	.	.	.	1,899	42%	11.961
Kearney County	1,158	22%	10.203	\$26,991	2	0%	1,708.63	1,156	42%	5.4
Keith County	2,121	29%	6.889	\$26,605	.	.	2,026.48	2,121	71%	2.829
Keva Paha County	505	94%	0.693	\$28,104	.	.	.	505	94%	0.693
Kimball County	765	28%	2.879	\$25,133	.	.	.	765	28%	2.879
Knox County	6,836	100%	6.179	\$26,287	.	.	.	6,836	100%	6.179
Lancaster County	3,713	1%	381.075	\$27,512	205	0%	3,278.14	3,508	14%	33.645
Lincoln County	6,270	17%	14.015	\$26,896	.	.	2,145.62	6,270	61%	4.057
Logan County	584	100%	1.023	\$24,599	.	.	.	584	100%	1.023
Loup County	415	97%	0.75	\$25,806	.	.	.	415	97%	0.75
McPherson County	460	100%	0.536	\$25,760	.	.	.	460	100%	0.536
Madison County	4,228	12%	60.154	\$25,279	722	3%	2,226.11	3,506	42%	14.875
Merrick County	2,655	42%	13.123	\$25,403	331	12%	1,299.90	2,324	65%	7.387
Morrill County	1,378	38%	2.57	\$23,268	.	.	.	1,378	38%	2.57
Nance County	1,446	49%	6.644	\$25,499	.	.	.	1,446	49%	6.644
Nemaha County	1,248	20%	15.128	\$26,837	109	4%	1,540.18	1,139	37%	7.568
Nuckolls County	701	22%	5.621	\$23,935	.	.	.	701	22%	5.621
Otoe County	1,733	12%	22.66	\$25,700	311	5%	1,919.06	1,422	19%	12.107
Pawnee County	678	36%	4.41	\$25,138	.	.	.	678	36%	4.41
Perkins County	2,128	99%	2.423	\$29,634	.	.	.	2,128	99%	2.423
Phelps County	1,129	15%	14.015	\$27,126	7	0%	2,004.17	1,122	38%	5.461
Pierce County	3,948	70%	9.821	\$25,938	.	.	.	3,948	70%	9.821
Platte County	28,657	87%	48.916	\$25,815	22,463	95%	2,960.17	6,194	67%	13.831
Polk County	1,511	35%	9.778	\$29,567	.	.	.	1,511	35%	9.778
Red Willow County	5,668	54%	14.66	\$23,912	3,642	48%	1,639.30	2,026	70%	4.074
Richardson County	5,386	85%	11.463	\$24,703	3,374	100%	1,825.80	2,012	68%	5.367
Rock County	1,175	93%	1.253	\$28,158	.	.	.	1,175	93%	1.253
Saline County	1,916	15%	22.747	\$21,230	471	7%	2,843.52	1,445	25%	10.308
Sarpy County	8,523	5%	786.915	\$30,539	6,047	3%	2,602.76	2,476	26%	56.497
Saunders County	3,753	20%	25.485	\$29,175	4	0%	2,045.85	3,749	31%	16.277
Scotts Bluff County	3,657	10%	48.151	\$24,417	16	0%	2,029.03	3,641	41%	12.28
Seward County	2,226	14%	27.911	\$27,579	93	1%	2,650.77	2,133	24%	15.62
Sheridan County	3,415	96%	1.453	\$22,665	.	.	.	3,415	96%	1.453
Sherman County	1,217	53%	4.068	\$24,505	.	.	.	1,217	53%	4.068
Sioux County	705	87%	0.393	\$27,669	.	.	.	705	87%	0.393
Stanton County	3,176	61%	12.249	\$28,682	171	10%	2,805.37	3,005	84%	8.384
Thayer County	1,675	40%	7.302	\$27,626	.	.	.	1,675	40%	7.302
Thomas County	479	100%	0.672	\$28,421	.	.	.	479	100%	0.672
Thurston County	5,218	84%	15.715	\$18,251	.	.	.	5,218	84%	15.715
Valley County	1,395	44%	5.598	\$24,165	.	.	.	1,395	44%	5.598
Washington County	19,497	97%	51.747	\$30,438	7,961	100%	1,983.92	11,536	94%	31.657
Wayne County	2,150	26%	18.773	\$25,523	891	17%	2,972.50	1,259	42%	6.733
Webster County	1,496	54%	4.789	\$22,328	.	.	.	1,496	54%	4.789
Wheeler County	319	46%	1.215	\$27,996	.	.	.	319	46%	1.215
York County	1,759	14%	21.446	\$28,271	205	3%	2,052.31	1,554	33%	8.314
Nevada	249,722	8%	26.776	.	151,168	5%	3,633.05	98,554	65%	1.39
Churchill County	2,912	12%	4.866	\$23,823	.	.	1,136.18	2,912	37%	1.605
Clark County	83,478	4%	273.784	\$26,040	67,681	3%	4,856.54	15,797	60%	3.543
Douglas County	2,166	5%	64.885	\$34,090	.	.	1,639.01	2,166	17%	18.443
Elko County	45,229	90%	2.936	\$29,762	28,521	85%	1,613.12	16,708	98%	0.99
Esmeralda County	476	100%	0.133	\$20,513	.	.	.	476	100%	0.133
Eureka County	1,816	100%	0.435	\$31,057	.	.	.	1,816	100%	0.435
Humboldt County	16,029	100%	1.663	\$26,547	10,274	100%	1,126.53	5,755	100%	0.598
Lander County	5,913	100%	1.077	\$29,302	3,593	100%	1,846.38	2,320	100%	0.423
Lincoln County	2,638	48%	0.515	\$23,523	.	.	.	2,638	48%	0.515
Lyon County	12,639	22%	29.045	\$22,709	3,231	8%	2,196.47	9,408	49%	9.737
Mineral County	3,848	100%	1.025	\$23,222	2,904	100%	2,420.04	944	100%	0.252
Nye County	45,835	100%	2.522	\$23,035	30,426	100%	689.259	15,409	100%	0.85
Pershing County	6,202	100%	1.027	\$18,623	.	.	.	6,202	100%	1.027
Storey County	3,488	83%	16.005	\$37,215	.	.	792.315	3,488	89%	14.896

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Washoe County	6,971	2%	70.931	\$28,621	228	0%	2,445.31	6,743	37%	2,988
White Pine County	9,683	100%	1.094	\$25,857	4,303	99%	1,698.97	5,380	100%	0.606
Carson City	399	1%	372.261	\$25,893	7	0%	2,531.10	392	18%	17.65
New Hampshire	99,129	7%	149.754	.	22,094	3%	1,260.60	77,035	15%	63.647
Belknap County	2,742	5%	148.766	\$31,044	663	3%	1,301.22	2,079	5%	103.843
Carroll County	2,103	4%	50.481	\$32,860	.	.	609.063	2,103	5%	45.756
Cheshire County	24,180	32%	108.225	\$29,591	377	1%	1,835.10	23,803	48%	71.866
Coos County	9,427	30%	17.366	\$24,737	.	.	1,919.01	9,427	46%	11.564
Grafton County	10,013	11%	53.382	\$31,221	1,345	5%	1,430.78	8,668	14%	37.031
Hillsborough County	23,039	6%	468.329	\$34,767	12,748	4%	1,647.10	10,291	12%	126.976
Merrimack County	11,635	8%	159.474	\$31,579	1,751	3%	1,260.06	9,884	12%	92.384
Rockingham County	2,667	1%	437.438	\$39,605	1,698	1%	879.478	969	1%	174.622
Strafford County	4,234	3%	346.948	\$29,757	3,127	4%	1,425.59	1,107	3%	136.005
Sullivan County	9,089	21%	82.058	\$29,073	385	2%	1,424.51	8,704	31%	53.135
New Jersey	285,478	3%	1,214.66	.	188,462	2%	2,901.05	97,016	21%	104.424
Atlantic County	11,424	4%	497.043	\$27,411	7,326	3%	2,103.00	4,098	12%	77.785
Bergen County	809	0%	3,917.98	\$43,194	809	0%	4,174.93	.	.	65.818
Burlington County	16,240	4%	554.448	\$37,511	13,598	3%	1,882.81	2,642	9%	49.862
Camden County	12,316	2%	2,350.47	\$30,667	12,210	2%	3,336.40	106	1%	122.998
Cape May County	2,601	3%	359.38	\$33,499	1,735	2%	1,267.01	866	5%	86.876
Cumberland County	10,133	6%	337.637	\$32,425	3,288	3%	1,899.88	6,845	19%	85.747
Essex County	8,034	1%	6,234.55	\$32,327	8,034	1%	6,419.18	.	.	31.523
Gloucester County	6,877	2%	943.569	\$33,609	6,467	2%	1,760.22	410	2%	153.652
Hudson County	3,004	0%	14,478.62	\$32,678	3,004	0%	14,478.62	.	.	.
Hunterdon County	18,025	14%	297.792	\$50,846	4,578	7%	1,099.71	13,447	21%	169.882
Mercer County	8,063	2%	1,652.44	\$38,076	8,020	2%	2,690.86	43	0%	136.573
Middlesex County	8,323	1%	2,678.47	\$34,616	8,303	1%	3,260.86	20	0%	101.757
Monmouth County	2,939	0%	1,340.97	\$43,548	2,894	0%	1,983.55	45	0%	145.133
Morris County	504	0%	1,082.11	\$48,928	406	0%	1,786.08	98	0%	166.126
Ocean County	9,686	2%	953.571	\$30,951	9,127	2%	2,306.49	559	3%	46.104
Passaic County	3	0%	2,795.22	\$27,795	.	.	5,352.34	3	0%	133.579
Salem County	2,703	4%	200.257	\$28,987	975	3%	1,676.44	1,728	6%	95.984
Somerset County	1,578	0%	1,111.48	\$48,646	1,351	0%	1,795.73	227	1%	140.613
Sussex County	109,357	74%	283.673	\$38,454	63,849	72%	1,308.77	45,508	78%	129.308
Union County	1,647	0%	5,288.27	\$35,411	1,647	0%	5,288.27	.	.	.
Warren County	51,212	48%	298.663	\$34,016	30,841	46%	1,904.15	20,371	51%	123.813
New Mexico	431,125	20%	17,809	.	156,432	9%	2,072.22	274,693	61%	3,711
Bernalillo County	9,853	1%	626.339	\$26,916	2,616	0%	3,569.43	7,237	24%	31.604
Catron County	3,160	100%	0.456	\$19,254	.	.	.	3,160	100%	0.456
Chaves County	9,525	14%	11.379	\$20,356	893	2%	1,976.60	8,632	55%	2,592
Cibola County	25,192	96%	5.769	\$16,362	11,229	96%	1,434.08	13,963	96%	3.207
Colfax County	10,423	97%	2.849	\$20,975	4,995	96%	1,386.63	5,428	99%	1.461
Curry County	6,026	13%	33.035	\$21,886	1,552	4%	1,809.73	4,474	80%	4.022
De Baca County	1,623	100%	0.699	\$25,942	.	.	.	1,623	100%	0.699
Doña Ana County	42,938	19%	60.891	\$20,058	23,309	12%	2,098.33	19,629	47%	11.135
Eddy County	18,109	35%	12.476	\$27,630	12,469	30%	1,479.19	5,640	56%	2.413
Grant County	8,341	29%	7.334	\$23,411	2,043	12%	1,316.38	6,298	52%	3.069
Guadalupe County	3,829	100%	1.263	\$15,192	2,198	100%	1,018.54	1,631	100%	0.539
Harding County	455	100%	0.214	\$18,565	.	.	.	455	100%	0.214
Hidalgo County	4,164	99%	1.224	\$19,400	.	.	.	4,164	99%	1.224
Lea County	8,013	12%	15.728	\$22,962	2,995	5%	1,935.99	5,018	37%	3.133
Lincoln County	4,830	25%	3.956	\$24,732	1,150	12%	1,073.85	3,680	37%	2.037
Los Alamos County	334	2%	162.522	\$50,723	221	1%	1,578.64	113	6%	19.834
Luna County	8,542	36%	8.038	\$15,549	1,730	12%	1,751.69	6,812	73%	3.146
McKinley County	47,691	69%	12.67	\$12,800	10,263	34%	1,743.33	37,428	96%	7.143
Mora County	4,401	100%	2.279	\$18,950	.	.	.	4,401	100%	2.279
Otero County	19,247	30%	9.741	\$19,803	7,134	16%	1,793.92	12,113	66%	2.794
Quay County	6,606	100%	2.298	\$16,719	3,820	100%	1,277.93	2,786	100%	0.97
Rio Arriba County	26,204	69%	6.504	\$19,483	11,282	57%	832.22	14,922	81%	3.159
Roosevelt County	5,519	30%	7.408	\$17,668	81	1%	2,107.59	5,438	82%	2.703
Sandoval County	12,945	9%	40.968	\$26,916	3,019	2%	2,279.73	9,926	43%	6.387
San Juan County	38,113	29%	23.87	\$21,992	13,528	15%	1,438.14	24,585	60%	7.528

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
San Miguel County	22,862	82%	5,913	\$18,355	11,242	77%	1,501.05	11,620	87%	2,839
Santa Fe County	20,851	14%	79,981	\$32,454	9,545	8%	1,499.06	11,306	30%	20,428
Sierra County	4,640	45%	2,458	\$18,589	1,805	26%	924.717	2,835	85%	0.797
Socorro County	16,748	100%	2.53	\$17,969	8,738	100%	1,419.00	8,010	99%	1,214
Taos County	15,677	49%	14,578	\$22,107	2,262	17%	848.181	13,415	72%	8,467
Torrance County	8,292	58%	4,258	\$18,278	.	.	819.848	8,292	59%	4.2
Union County	3,695	100%	0.966	\$20,511	.	.	.	3,695	100%	0.966
Valencia County	12,277	15%	77,606	\$19,646	6,313	9%	996.119	5,964	43%	13,793
New York	430,202	2%	415,253	.	40,455	0%	4,235.44	389,747	17%	52,016
Albany County	11,041	4%	572,413	\$32,624	3,912	1%	2,223.80	7,129	26%	68,538
Allegany County	10,943	24%	43,901	\$20,881	.	.	1,765.45	10,943	31%	34,517
Bronx County	12,320	1%	35,212.38	\$18,269	12,290	1%	37,396.64	30	94%	13,01
Broome County	9,240	5%	276,371	\$24,820	122	0%	2,182.12	9,118	18%	77,842
Cattaraugus County	19,424	26%	56,916	\$22,486	77	0%	1,553.68	19,347	42%	35,416
Cayuga County	21,145	28%	110,694	\$25,070	.	.	2,314.38	21,145	50%	62,318
Chautauqua County	9,272	7%	120.77	\$22,483	.	.	1,944.21	9,272	17%	53,368
Chemung County	4,331	5%	208,392	\$25,967	.	.	1,775.64	4,331	22%	54,067
Chenango County	10,467	22%	53,093	\$22,339	.	.	2,317.50	10,467	27%	44,082
Clinton County	5,380	7%	77.73	\$25,279	.	.	1,120.07	5,380	10%	51,04
Columbia County	22,607	38%	93,254	\$32,665	7,348	46%	1,434.69	15,259	35%	69,264
Cortland County	5,231	11%	95.15	\$23,581	.	.	2,542.82	5,231	26%	41,646
Delaware County	20,929	47%	30,942	\$23,911	.	.	1,928.99	20,929	61%	23,93
Dutchess County	280	0%	367,988	\$33,962	127	0%	1,261.33	153	0%	115,967
Erie County	7,057	1%	857,401	\$28,512	.	.	2,470.26	7,057	9%	115,643
Essex County	6,640	18%	20,627	\$26,755	.	.	1,635.58	6,640	24%	15,361
Franklin County	9,170	18%	30,782	\$22,322	.	.	1,857.24	9,170	29%	19,393
Fulton County	4,363	8%	110,213	\$24,265	.	.	1,942.19	4,363	16%	56,337
Genesee County	2,187	4%	117,516	\$25,721	.	.	2,040.90	2,187	6%	71,078
Greene County	42,031	89%	73,323	\$25,770	12,658	98%	1,523.94	29,373	85%	54,163
Hamilton County	3,419	82%	2.43	\$29,974	.	.	.	3,419	82%	2.43
Herkimer County	7,984	13%	43,868	\$23,607	.	.	1,748.71	7,984	25%	22,49
Jefferson County	15,752	14%	91,837	\$23,681	.	.	1,429.01	15,752	29%	45,019
Kings County	.	.	37,249.98	\$25,932	.	.	40,946.05	.	.	1,408
Lewis County	6,501	26%	19,818	\$23,723	.	.	1,908.25	6,501	30%	17,188
Livingston County	6,912	11%	98,763	\$23,981	.	.	1,421.12	6,912	21%	54,458
Madison County	5,430	8%	110,366	\$25,786	.	.	1,780.21	5,430	13%	66,18
Monroe County	277	0%	1,121.27	\$29,170	.	.	2,343.30	277	1%	128,345
Montgomery County	7,557	15%	121,101	\$23,809	.	.	1,813.77	7,557	39%	50,37
Nassau County	.	.	4,614.99	\$42,949	.	.	5,067.66	.	.	94,461
New York County	3,271	0%	73,077.08	\$63,610	3,271	0%	73,077.08	.	.	.
Niagara County	1,696	1%	406,297	\$26,710	.	.	1,750.72	1,696	4%	112,34
Oneida County	9,287	4%	190,245	\$25,633	1	0%	1,761.21	9,286	13%	65,594
Onondaga County	1,381	0%	591.75	\$29,156	.	.	2,134.15	1,381	2%	96,276
Ontario County	5,944	6%	166,922	\$30,346	.	.	1,443.40	5,944	12%	83,393
Orange County	115	0%	460,528	\$30,561	.	.	1,583.19	115	0%	129,932
Orleans County	724	2%	104,263	\$22,350	.	.	1,947.82	724	3%	64,739
Oswego County	7,377	6%	123,951	\$23,472	.	.	1,616.60	7,377	10%	77,245
Otsego County	11,027	19%	57,808	\$24,263	.	.	1,841.14	11,027	28%	40,125
Putnam County	593	1%	420,826	\$40,967	506	1%	962.07	87	0%	130,55
Queens County	1	0%	21,250.61	\$26,580	1	0%	21,838.93	.	.	0
Rensselaer County	4,989	3%	243	\$30,285	.	.	1,605.55	4,989	10%	82,044
Richmond County	2	0%	8,244.20	\$32,091	2	0%	8,244.20	.	.	.
Rockland County	9	0%	1,831.04	\$34,833	.	.	2,643.47	9	0%	41,594
St. Lawrence County	13,193	12%	40,461	\$22,908	.	.	2,145.30	13,193	20%	25,052
Saratoga County	558	0%	272,831	\$35,860	.	.	1,499.39	558	1%	92,604
Schenectady County	975	1%	770,419	\$28,609	78	0%	2,402.30	897	7%	84,411
Schoharie County	8,772	29%	49,49	\$26,097	.	.	1,740.28	8,772	35%	40,869
Schuyler County	3,740	23%	49,428	\$24,529	.	.	1,181.52	3,740	28%	40,605
Seneca County	6,787	20%	103,634	\$23,823	.	.	1,647.84	6,787	35%	62,303
Steuben County	16,306	18%	66,992	\$25,696	2	0%	1,804.27	16,304	29%	40,436
Suffolk County	263	0%	1,611.87	\$37,427	.	.	2,422.63	263	1%	111,974
Sullivan County	1,521	2%	76,402	\$25,336	.	.	1,359.60	1,521	3%	56,863

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Tioga County	3,369	7%	94.5	\$28,803	.	.	1,358.81	3,369	11%	63.174
Tompkins County	4,028	4%	211.007	\$27,829	.	.	2,028.43	4,028	10%	94.763
Ulster County	1,848	1%	157.667	\$30,868	.	.	1,152.52	1,848	2%	77.878
Warren County	4,823	7%	75.111	\$30,662	.	.	1,446.95	4,823	23%	25.524
Washington County	12,739	20%	75.5	\$23,877	.	.	1,926.04	12,739	30%	51.434
Wayne County	4,250	5%	149.29	\$25,643	.	.	1,158.55	4,250	8%	93.525
Westchester County	.	.	2,197.52	\$48,487	.	.	3,329.52	.	.	194.347
Wyoming County	5,683	14%	67.869	\$23,708	.	.	2,408.32	5,683	23%	42.935
Yates County	7,041	29%	71.417	\$25,436	60	1%	1,819.78	6,981	41%	51.246
North Carolina	738,306	7%	208.099	.	77,082	1%	1,479.91	661,224	20%	74.898
Alamance County	3,336	2%	373.302	\$23,324	.	.	1,449.57	3,336	7%	131.215
Alexander County	2,822	7%	146.673	\$20,112	.	.	731.734	2,822	10%	112.506
Alleghany County	1,330	12%	45.903	\$19,452	.	.	.	1,330	12%	45.903
Anson County	2,284	9%	47.818	\$17,091	.	.	1,048.06	2,284	11%	37.801
Ashe County	4,522	17%	63.818	\$21,149	2,071	52%	727.792	2,451	11%	55.096
Avery County	3,327	20%	67.689	\$21,541	3	0%	867.558	3,324	23%	60.19
Beaufort County	13,960	30%	56.492	\$21,789	749	5%	1,053.21	13,211	44%	37.246
Bertie County	7,428	35%	30.177	\$16,557	1,200	32%	1,578.78	6,228	36%	24.923
Bladen County	14,424	44%	37.675	\$19,059	.	.	1,099.37	14,424	48%	34.617
Brunswick County	17,749	15%	143.418	\$27,260	341	0%	983.377	17,408	34%	66.058
Buncombe County	715	0%	382.262	\$26,930	3	0%	1,241.45	712	1%	119.673
Burke County	2,174	2%	176.756	\$20,346	.	.	732.316	2,174	6%	87.653
Cabarrus County	307	0%	553.312	\$25,544	.	.	1,494.84	307	1%	146.47
Caldwell County	1,152	1%	176.058	\$19,397	.	.	801.505	1,152	4%	70.65
Camden County	813	7%	47.091	\$26,388	7	14%	2,170.36	806	7%	46.892
Carteret County	54	0%	131.142	\$27,975	.	.	934.568	54	0%	47.509
Caswell County	12,443	55%	53.33	\$19,057	13	7%	963.665	12,430	55%	52.901
Catawba County	375	0%	393.874	\$23,355	.	.	861.954	375	1%	177.544
Chatham County	18,765	28%	99.567	\$32,369	31	0%	1,398.21	18,734	43%	66.118
Cherokee County	20,194	74%	59.821	\$18,556	.	.	.	20,194	74%	59.821
Chowan County	2,841	19%	87.382	\$21,179	3	0%	1,549.21	2,838	27%	60.941
Clay County	5,410	50%	50.808	\$21,935	.	.	.	5,410	50%	50.808
Cleveland County	5,023	5%	207.09	\$20,512	.	.	980.804	5,023	9%	127.96
Columbus County	11,653	21%	59.732	\$19,289	1,694	15%	855.312	9,959	22%	48.502
Craven County	9,867	9%	148.275	\$24,582	1,474	2%	1,300.23	8,393	30%	43.468
Cumberland County	2,737	1%	499.848	\$23,204	.	.	1,720.08	2,737	7%	85.326
Currituck County	935	4%	97.46	\$26,703	.	.	567.996	935	4%	96.098
Dare County	210	1%	90.859	\$30,958	.	.	869.085	210	2%	28.928
Davidson County	5,216	3%	298.991	\$22,465	435	1%	948.907	4,781	6%	169.982
Davie County	103	0%	166.112	\$26,739	.	.	897.956	103	0%	123.222
Duplin County	18,078	31%	71.717	\$17,677	46	1%	1,283.47	18,032	35%	62.923
Durham County	2,176	1%	1,017.56	\$29,801	.	.	2,053.20	2,176	14%	101.617
Edgecombe County	13,511	25%	106.65	\$17,652	637	2%	1,412.14	12,874	53%	50.215
Forsyth County	.	.	909.448	\$26,670	.	.	1,435.72	.	.	154.496
Franklin County	9,722	15%	132.722	\$21,836	.	.	984.773	9,722	18%	115.008
Gaston County	27	0%	611.105	\$22,654	.	.	1,288.69	27	0%	192.723
Gates County	12,805	100%	37.613	\$22,207	.	.	.	12,805	100%	37.613
Graham County	4,028	49%	28.105	\$20,525	.	.	.	4,028	49%	28.105
Granville County	13,900	22%	118.357	\$22,756	5,355	19%	1,115.87	8,545	25%	67.982
Greene County	20,850	96%	81.654	\$18,477	.	.	.	20,850	96%	81.654
Guilford County	1,073	0%	801.659	\$26,322	.	.	1,807.61	1,073	2%	162.4
Halifax County	9,617	19%	71.204	\$18,728	35	0%	1,518.28	9,582	34%	39.28
Harnett County	2,560	2%	211.469	\$20,274	.	.	1,194.00	2,560	4%	127.092
Haywood County	8,093	14%	104.52	\$24,870	.	.	1,059.66	8,093	25%	60.723
Henderson County	20,516	18%	302.556	\$25,617	2,732	4%	881.731	17,784	47%	131.769
Hertford County	3,157	14%	64.929	\$17,289	.	.	1,656.00	3,157	20%	44.916
Hoke County	4,971	9%	134.303	\$19,036	2	0%	1,219.58	4,969	23%	58.804
Hyde County	5,506	99%	9.042	\$19,796	.	.	.	5,506	99%	9.042
Iredell County	4,569	3%	305.805	\$27,125	.	.	1,134.87	4,569	7%	137.777
Jackson County	26,532	67%	81.012	\$21,033	313	3%	1,434.31	26,219	92%	59.133
Johnston County	9,874	5%	241.828	\$22,589	.	.	1,062.43	9,874	10%	139.241
Jones County	5,658	59%	20.514	\$20,634	.	.	.	5,658	59%	20.514

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Lee County	871	1%	239.407	\$21,556	.	.	1,206.90	871	3%	115.51
Lenoir County	10,195	18%	143.4	\$19,330	1,433	5%	889.591	8,762	33%	71.845
Lincoln County	105	0%	287.429	\$25,693	.	.	883.69	105	0%	184.315
McDowell County	10,225	23%	102.363	\$18,730	70	1%	851.442	10,155	32%	74.605
Macon County	17,137	51%	65.771	\$24,120	6	0%	751.885	17,131	63%	53.385
Madison County	.	.	44.894	\$20,791	.	.	1,284.42	.	.	40.45
Martin County	6,551	30%	48.023	\$19,313	29	1%	1,482.82	6,522	38%	37.747
Mecklenburg County	2	0%	1,999.85	\$32,817	2	0%	2,299.70	.	.	144.377
Mitchell County	1,858	13%	66.248	\$21,388	174	7%	516.48	1,684	14%	55.58
Montgomery County	14,489	55%	53.63	\$19,193	3,476	54%	1,008.72	11,013	55%	41.132
Moore County	9,527	10%	130.901	\$29,570	.	.	978.555	9,527	21%	70.941
Nash County	11,934	12%	179.587	\$23,056	1,835	4%	1,537.54	10,099	22%	90.06
New Hanover County	182	0%	1,146.28	\$29,742	4	0%	1,954.28	178	4%	56.006
Northampton County	5,454	27%	38.085	\$18,546	6	0%	1,102.35	5,448	30%	34.094
Onslow County	172	0%	250.519	\$21,583	.	.	1,310.92	172	0%	76.899
Orange County	9,358	7%	358.591	\$35,406	.	.	2,071.19	9,358	24%	113.225
Pamlico County	1,738	14%	37.758	\$24,854	.	.	.	1,738	14%	37.758
Pasquotank County	.	.	194.085	\$22,466	.	.	1,498.63	.	.	88.718
Pender County	11,578	20%	66.005	\$23,383	.	.	902.342	11,578	30%	45.704
Perquimans County	2,943	20%	59.651	\$23,260	.	.	.	2,943	20%	59.651
Person County	3,290	8%	98.689	\$21,191	.	.	1,292.15	3,290	11%	76.2
Pitt County	17,311	9%	281.379	\$23,439	6,195	4%	1,893.33	11,116	25%	77.598
Polk County	4,680	23%	85.723	\$26,686	.	.	882.053	4,680	25%	79.979
Randolph County	5,150	4%	184.965	\$20,892	84	0%	1,092.44	5,066	6%	111.212
Richmond County	3,133	7%	92.794	\$17,982	.	.	952.886	3,133	15%	45.054
Robeson County	19,463	15%	138.349	\$15,460	.	.	1,137.30	19,463	24%	91.242
Rockingham County	3,966	4%	161.46	\$21,138	.	.	1,048.88	3,966	7%	107.035
Rowan County	2,850	2%	275.638	\$21,149	.	.	1,098.46	2,850	5%	126.551
Rutherford County	63,759	96%	118.101	\$19,686	24,337	95%	733.43	39,422	96%	77.286
Sampson County	51,287	82%	66.466	\$19,463	7,973	88%	1,140.10	43,314	81%	57.312
Scotland County	2,875	8%	106.952	\$15,787	.	.	1,042.90	2,875	17%	54.811
Stanly County	218	0%	151.597	\$20,880	.	.	902.577	218	1%	109.795
Stokes County	2,490	5%	106.691	\$21,406	.	.	921.283	2,490	7%	82.275
Surry County	3,354	5%	137.513	\$20,164	.	.	817.435	3,354	7%	100.35
Swain County	7,526	53%	26.655	\$19,312	.	.	.	7,526	53%	26.655
Transylvania County	33,455	100%	88.382	\$24,551	13,494	100%	1,092.40	19,961	100%	54.512
Tyrrell County	2,572	60%	11.045	\$16,217	.	.	.	2,572	60%	11.045
Union County	2,052	1%	376.135	\$28,765	.	.	1,447.44	2,052	3%	120.065
Vance County	2,468	6%	173.369	\$18,815	.	.	1,082.32	2,468	10%	102.762
Wake County	2,667	0%	1,250.29	\$33,727	50	0%	2,082.52	2,617	4%	168.922
Warren County	9,493	48%	46.266	\$19,022	.	.	.	9,493	48%	46.266
Washington County	2,420	19%	36.54	\$18,794	115	3%	1,134.04	2,305	27%	24.986
Watauga County	530	1%	167.468	\$21,801	.	.	1,783.89	530	2%	94.687
Wayne County	3,166	3%	222.831	\$21,818	82	0%	1,149.99	3,084	5%	118.557
Wilkes County	376	1%	89.65	\$18,441	.	.	683.477	376	1%	67.597
Wilson County	1,391	2%	225.518	\$21,426	573	1%	2,054.20	818	3%	91.977
Yadkin County	218	1%	116.023	\$22,338	.	.	1,027.25	218	1%	99.862
Yancey County	2,435	14%	56.357	\$21,330	.	.	.	2,435	14%	56.357
North Dakota	97,315	14%	10.044	.	11,294	2%	2,522.74	86,021	37%	3.334
Adams County	75	4%	1.776	\$33,132	.	.	.	75	4%	1.776
Barnes County	1,766	17%	6.827	\$32,698	11	0%	1,444.47	1,755	53%	2.234
Benson County	4,819	80%	4.321	\$19,443	.	.	.	4,819	80%	4.321
Billings County	504	84%	0.521	\$42,832	.	.	.	504	84%	0.521
Bottineau County	1,481	28%	3.17	\$31,638	.	.	.	1,481	28%	3.17
Bowman County	199	7%	2.345	\$34,290	.	.	.	199	7%	2.345
Burke County	1,314	100%	1.191	\$33,174	.	.	.	1,314	100%	1.191
Burleigh County	2,703	3%	59.199	\$33,644	2,640	3%	2,615.47	63	0%	10.528
Cass County	8,017	5%	100.003	\$31,415	1,625	1%	3,035.44	6,392	40%	9.276
Cavalier County	1,370	44%	2.078	\$36,141	.	.	.	1,370	44%	2.078
Dickey County	.	.	3.815	\$27,056	.	.	.	.	.	3.815
Divide County	1,380	89%	1.227	\$41,003	.	.	.	1,380	89%	1.227
Dunn County	627	22%	1.392	\$38,216	.	.	.	627	22%	1.392

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Eddy County	275	17%	2,534	\$29,059	.	.	.	275	17%	2,534
Emmons County	1	0%	1,474	\$28,042	.	.	.	1	0%	1,474
Foster County	79	4%	3,451	\$30,060	.	.	.	79	4%	3,451
Golden Valley County	1,140	99%	1,151	\$28,359	.	.	.	1,140	99%	1,151
Grand Forks County	11,727	16%	49,988	\$27,772	4,943	8%	2,751.62	6,784	69%	6,946
Grant County	72	4%	1,014	\$31,092	.	.	.	72	4%	1,014
Griggs County	883	52%	2,411	\$29,528	.	.	.	883	52%	2,411
Hettinger County	2	0%	1,606	\$28,719	.	.	.	2	0%	1,606
Kidder County	3	0%	1,233	\$32,233	.	.	.	3	0%	1,233
LaMoure County	.	.	2,501	\$33,368	.	.	.	.	.	2,501
Logan County	.	.	1,361	\$30,798	.	.	.	.	.	1,361
McHenry County	1,160	30%	2,094	\$29,987	.	.	.	1,160	30%	2,094
McIntosh County	.	.	1,742	\$27,384	.	.	.	.	.	1,742
McKenzie County	5,996	98%	2,209	\$34,688	.	.	.	5,996	98%	2,209
McLean County	3,375	45%	3,516	\$31,187	.	.	.	3,375	45%	3,516
Mercer County	.	.	7,03	\$31,584	.	.	2,140.23	.	.	4,199
Morton County	2,010	7%	15,623	\$30,293	437	2%	2,312.46	1,573	19%	4,319
Mountrail County	6,910	98%	3,867	\$33,839	.	.	.	6,910	98%	3,867
Nelson County	458	21%	2,231	\$30,411	.	.	.	458	21%	2,231
Oliver County	135	10%	1,842	\$31,194	.	.	.	135	10%	1,842
Pembina County	745	12%	5,476	\$29,093	.	.	.	745	12%	5,476
Pierce County	148	4%	3,676	\$24,729	.	.	1,780.62	148	14%	1,059
Ramsey County	1,135	10%	9,18	\$28,670	15	0%	2,302.14	1,120	33%	2,883
Ransom County	1,323	29%	5,356	\$28,896	.	.	.	1,323	29%	5,356
Renville County	446	25%	2,055	\$31,781	.	.	.	446	25%	2,055
Richland County	5,842	41%	9,918	\$28,499	1,076	13%	1,762.12	4,766	76%	4,371
Rolette County	12,151	87%	15,469	\$15,825	.	.	.	12,151	87%	15,469
Sargent County	65	2%	3,473	\$32,086	.	.	.	65	2%	3,473
Sheridan County	266	32%	0,864	\$33,010	.	.	.	266	32%	0,864
Sioux County	110	3%	3,807	\$16,287	.	.	.	110	3%	3,807
Slope County	7	1%	0,415	\$33,389	.	.	.	7	1%	0,415
Stark County	246	1%	19,58	\$33,396	.	.	2,668.72	246	4%	4,498
Steele County	1,141	85%	1,877	\$33,619	.	.	.	1,141	85%	1,877
Stutsman County	918	5%	9,057	\$29,361	.	.	1,584.39	918	20%	2,032
Towner County	668	47%	1,384	\$34,103	.	.	.	668	47%	1,384
Traill County	1,144	17%	7,845	\$29,736	.	.	.	1,144	17%	7,845
Walsh County	2,300	25%	7,206	\$29,322	149	4%	2,144.67	2,151	41%	4,136
Ward County	4,855	7%	33,304	\$29,564	314	1%	2,054.78	4,541	36%	6,267
Wells County	478	16%	2,375	\$29,980	.	.	.	478	16%	2,375
Williams County	4,846	20%	11,604	\$41,984	84	0%	2,393.94	4,762	68%	3,372
Northern Mariana Islands	51,455	100%	282,207	.	33,906	100%	1,266.98	17,549	100%	112,805
Northern Islands	7,659	100%	123,946	.	.	.	.	7,659	100%	123,946
Rota	4,399	100%	133,884	.	.	.	.	4,399	100%	133,884
Saipan	34,652	100%	755,111	.	30,516	100%	1,330.98	4,136	100%	180,112
Tinian	4,745	100%	113,542	.	3,390	100%	884,256	1,355	100%	35,698
Ohio	983,927	8%	283,856	.	202,958	2%	2,060.66	780,969	31%	68,325
Adams County	13,687	49%	48,15	\$17,695	.	.	1,454.01	13,687	55%	42,986
Allen County	4,898	5%	256,457	\$22,585	.	.	1,395.35	4,898	18%	76,928
Ashland County	14,793	28%	124,989	\$22,441	2,593	13%	2,542.05	12,200	37%	78,456
Ashtabula County	8,026	8%	142,24	\$20,284	98	0%	1,233.32	7,928	17%	70,112
Athens County	23,301	36%	127,113	\$17,069	8,320	22%	2,440.46	14,981	56%	54,749
Auglaize County	6,317	14%	112,099	\$25,033	15	0%	1,720.65	6,302	38%	43,241
Belmont County	11,740	17%	126,201	\$23,285	1,796	6%	1,698.90	9,944	27%	71,533
Brown County	15,901	36%	90,422	\$22,088	2,482	24%	1,377.03	13,419	40%	70,057
Butler County	3,200	1%	838,183	\$27,394	.	.	2,046.32	3,200	9%	120,498
Carroll County	13,027	48%	69,142	\$22,359	155	2%	1,356.96	12,872	67%	49,3
Champaign County	7,007	17%	93,681	\$23,573	.	.	2,078.17	7,007	25%	67,353
Clark County	1,458	1%	342,388	\$22,941	.	.	1,707.16	1,458	5%	94,987
Clermont County	1,235	1%	465,822	\$28,708	.	.	1,504.92	1,235	3%	136,799
Clinton County	10,657	25%	105,145	\$22,828	.	.	2,065.33	10,657	46%	58,321
Columbiana County	24,046	23%	195,165	\$22,573	4,803	8%	1,413.52	19,243	43%	92,07
Coshocton County	11,315	32%	62,089	\$20,799	8	0%	2,087.95	11,307	53%	38,305

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Crawford County	5,821	14%	100.765	\$21,938	.	.	1,763.72	5,821	42%	35.567
Cuyahoga County	13,873	1%	2,730.30	\$27,892	13,873	1%	2,987.37	.	.	170.185
Darke County	8,177	16%	83.023	\$22,582	.	.	2,266.30	8,177	25%	54.987
De fiance County	9,169	25%	90.344	\$23,539	82	0%	1,368.65	9,087	58%	39.696
Delaware County	4,705	2%	445.315	\$41,357	.	.	1,937.55	4,705	13%	100.266
Erie County	3,929	5%	301.434	\$26,909	1,153	2%	1,628.02	2,776	14%	90.767
Fairfield County	14,331	9%	302.533	\$28,099	151	0%	2,038.18	14,180	28%	112.052
Fayette County	4,316	15%	72.112	\$21,033	.	.	2,309.63	4,316	32%	34.227
Franklin County	3,029	0%	2,285.28	\$28,807	1,369	0%	3,136.02	1,660	11%	103.341
Fulton County	8,026	19%	103.114	\$26,070	12	0%	1,661.13	8,014	35%	58.402
Gallia County	20,380	67%	64.99	\$21,049	1,854	33%	1,105.26	18,526	75%	53.579
Geauga County	8,978	9%	239.237	\$35,407	56	0%	754.026	8,922	15%	172.346
Greene County	6,455	4%	400.486	\$30,629	84	0%	1,971.37	6,371	27%	69.898
Guernsey County	7,802	21%	70.749	\$21,559	.	.	1,399.78	7,802	34%	44.494
Hamilton County	223	0%	2,002.56	\$30,062	165	0%	2,598.09	58	0%	182.63
Hancock County	5,017	7%	140.64	\$26,612	.	.	2,062.74	5,017	23%	43.49
Hardin County	6,037	19%	67.2	\$20,011	.	.	2,477.01	6,037	35%	36.891
Harrison County	12,002	82%	36.206	\$22,180	1,843	75%	1,415.15	10,159	84%	30.264
Henry County	7,347	28%	62.203	\$24,604	.	.	1,572.18	7,347	42%	42.363
Highland County	12,856	30%	77.905	\$19,587	.	.	1,984.72	12,856	41%	57.38
Hocking County	13,027	44%	69.949	\$21,253	478	6%	2,102.96	12,549	60%	49.816
Holmes County	31,596	75%	100.215	\$17,716	30	1%	1,587.79	31,566	80%	94.005
Huron County	11,584	20%	118.044	\$22,666	431	1%	2,000.45	11,153	39%	60.31
Jackson County	9,177	28%	77.751	\$20,250	69	1%	1,860.10	9,108	44%	50.409
Jefferson County	21,235	32%	163.263	\$22,591	7,264	18%	1,494.34	13,971	55%	67.065
Knox County	15,562	25%	116.462	\$23,926	10	0%	1,507.74	15,552	46%	66.884
Lake County	691	0%	1,039.29	\$29,556	449	0%	1,698.50	242	2%	155.63
Lawrence County	9,460	15%	139.085	\$21,760	1,838	5%	1,671.42	7,622	27%	66.164
Licking County	7,764	5%	252.697	\$27,082	.	.	1,841.63	7,764	13%	95.245
Logan County	8,322	19%	96.56	\$23,897	.	.	1,765.92	8,322	33%	56.326
Lorain County	31,855	10%	636.034	\$26,487	19,454	7%	1,690.05	12,401	35%	108.156
Lucas County	7,806	2%	1,276.73	\$24,683	5,819	1%	2,459.54	1,987	10%	114.1
Madison County	7,868	18%	96.382	\$23,994	70	0%	2,800.40	7,798	37%	45.606
Mahoning County	5,865	3%	557.901	\$23,628	3,406	2%	1,696.71	2,459	7%	118.763
Marion County	4,610	7%	165.411	\$20,986	.	.	1,720.86	4,610	24%	50.601
Medina County	3,987	2%	432.547	\$31,291	530	0%	1,854.15	3,457	7%	148.313
Meigs County	11,652	51%	52.874	\$19,097	652	15%	1,332.98	11,000	60%	43.282
Mercer County	6,335	16%	84.989	\$24,362	.	.	2,401.26	6,335	27%	52.181
Miami County	3,037	3%	255.799	\$25,654	.	.	2,034.92	3,037	10%	83.86
Monroe County	12,817	99%	28.316	\$22,337	331	100%	293.529	12,486	99%	27.658
Montgomery County	1,028	0%	1,143.16	\$25,171	.	.	2,196.28	1,028	5%	97.241
Morgan County	7,408	53%	33.682	\$21,010	.	.	1,653.49	7,408	64%	27.765
Morrow County	12,796	37%	85.749	\$22,825	.	.	1,847.12	12,796	42%	75.653
Muskingum County	8,697	10%	127.743	\$20,887	.	.	1,508.37	8,697	22%	62.854
Noble County	5,889	42%	35.607	\$20,719	.	.	1,992.26	5,889	69%	21.693
Ottawa County	4,900	12%	156.588	\$28,703	88	0%	946.63	4,812	24%	84.3
Paulding County	7,012	39%	42.914	\$23,565	.	.	1,858.60	7,012	49%	34.754
Perry County	15,450	43%	88.712	\$19,580	10	0%	2,099.90	15,440	57%	67.141
Pickaway County	18,527	31%	117.994	\$24,341	404	1%	1,698.84	18,123	62%	60.405
Pike County	11,613	41%	64.981	\$20,292	154	2%	1,205.67	11,459	54%	48.793
Portage County	6,755	4%	336.509	\$25,926	124	0%	1,226.72	6,631	13%	132.239
Preble County	577	1%	95.544	\$23,603	.	.	1,825.07	577	2%	65.647
Putnam County	10,244	32%	66.134	\$26,060	.	.	1,022.30	10,244	38%	56.234
Richland County	17,338	14%	242.273	\$21,959	6,137	7%	1,480.51	11,201	30%	86.165
Ross County	6,321	8%	115.954	\$21,536	.	.	1,945.82	6,321	14%	68.968
Sandusky County	4,154	7%	143.671	\$23,236	.	.	1,770.54	4,154	16%	64.681
Scioto County	14,140	18%	131.633	\$20,045	.	.	1,962.49	14,140	32%	73.714
Seneca County	7,260	13%	98.391	\$22,552	.	.	2,601.01	7,260	30%	45.605
Shelby County	5,948	12%	121.621	\$25,603	.	.	1,813.92	5,948	24%	61.998
Stark County	97,466	26%	646.522	\$24,821	82,227	26%	1,677.03	15,239	31%	129.593
Summit County	1,130	0%	1,313.46	\$28,389	919	0%	1,785.51	211	1%	170.429
Trumbull County	11,045	5%	328.294	\$23,139	2,282	2%	1,365.69	8,763	16%	109.235

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Tuscarawas County	18,849	21%	155.961	\$22,617	1,913	4%	1,825.63	16,936	46%	68.422
Union County	12,056	22%	128.884	\$28,648	.	.	2,269.41	12,056	46%	62.457
Van Wert County	7,651	29%	64.422	\$23,686	.	.	1,648.29	7,651	59%	32.151
Vinton County	7,930	61%	31.441	\$18,198	.	.	.	7,930	61%	31.441
Warren County	6,051	3%	582.823	\$33,421	45	0%	1,752.49	6,006	16%	130.626
Washington County	15,127	25%	96.43	\$23,933	1,671	6%	1,419.92	13,456	38%	57.106
Wayne County	58,836	51%	208.742	\$23,151	25,166	44%	1,516.55	33,670	57%	114.081
Williams County	9,299	26%	83.382	\$21,413	.	.	1,587.28	9,299	43%	52.971
Wood County	8,399	7%	203.908	\$27,210	75	0%	1,479.04	8,324	23%	63.729
Wyandot County	6,700	31%	52.398	\$23,266	.	.	2,094.99	6,700	56%	29.518
Oklahoma	1,066,854	27%	56.629	.	247,333	9%	2,027.87	819,521	66%	18.348
Adair County	17,989	83%	37.766	\$15,692	417	12%	1,553.38	17,572	97%	31.572
Alfalfa County	1,759	39%	5.255	\$26,103	.	.	.	1,759	39%	5.255
Atoka County	13,670	99%	14.152	\$18,587	.	.	.	13,670	99%	14.152
Beaver County	3,496	82%	2.359	\$25,610	.	.	.	3,496	82%	2.359
Beckham County	7,555	34%	24.887	\$25,654	2,238	15%	1,926.46	5,317	72%	8.218
Blaine County	3,755	36%	11.126	\$21,130	919	20%	2,233.96	2,836	50%	6.104
Bryan County	21,095	47%	49.317	\$20,964	413	2%	1,725.51	20,682	76%	30.321
Caddo County	20,732	83%	19.539	\$18,870	4,865	96%	2,093.65	15,867	80%	15.596
Canadian County	22,469	17%	151.263	\$28,160	4,639	4%	2,083.60	17,830	60%	34.894
Carter County	13,191	27%	58.535	\$22,118	403	2%	1,758.09	12,788	46%	34.058
Cherokee County	20,883	44%	62.656	\$18,893	295	2%	1,537.78	20,588	74%	37.916
Choctaw County	12,542	98%	16.608	\$18,739	3,958	97%	1,246.71	8,584	98%	11.375
Cimarron County	1,201	96%	0.679	\$24,946	.	.	.	1,201	96%	0.679
Cleveland County	53,278	18%	536.537	\$27,386	18,971	8%	2,771.35	34,307	74%	102.798
Coal County	5,013	100%	9.702	\$20,968	.	.	.	5,013	100%	9.702
Comanche County	38,056	30%	120.05	\$23,035	18,068	18%	2,206.31	19,988	72%	27.089
Cotton County	3,110	67%	7.371	\$21,410	2,014	100%	1,567.76	1,096	41%	4.196
Craig County	5,233	39%	17.793	\$19,936	733	13%	1,580.80	4,500	57%	10.391
Creek County	28,784	42%	72.991	\$22,736	5,314	17%	1,125.49	23,470	63%	40.416
Custer County	15,041	55%	27.461	\$22,993	9,759	50%	2,656.48	5,282	68%	7.875
Delaware County	30,663	75%	55.187	\$21,476	6,030	76%	820.727	24,633	75%	45.004
Dewey County	2,914	78%	3.751	\$25,721	.	.	.	2,914	78%	3.751
Ellis County	1,434	43%	2.695	\$28,458	.	.	.	1,434	43%	2.695
Garfield County	7,764	12%	58.731	\$24,647	1,256	3%	2,076.92	6,508	53%	11.919
Garvin County	19,392	75%	32.144	\$21,315	4,559	57%	1,532.23	14,833	83%	22.331
Grady County	28,470	53%	48.988	\$24,286	2,192	12%	1,238.08	26,278	74%	32.783
Grant County	1,612	48%	3.344	\$28,135	.	.	.	1,612	48%	3.344
Greer County	2,807	52%	8.381	\$19,837	39	2%	1,731.16	2,768	96%	4.535
Harmon County	983	42%	4.319	\$21,012	.	.	.	983	42%	4.319
Harper County	2,002	65%	2.954	\$23,484	.	.	.	2,002	65%	2.954
Haskell County	5,017	42%	20.546	\$18,910	1,057	40%	1,133.51	3,960	43%	16.062
Hughes County	11,783	99%	14.763	\$18,007	5,150	100%	1,577.23	6,633	99%	8.397
Jackson County	4,442	20%	28.226	\$22,569	271	2%	1,422.47	4,171	78%	6.794
Jefferson County	5,277	98%	7.094	\$18,828	.	.	.	5,277	98%	7.094
Johnston County	8,191	84%	15.252	\$19,742	.	.	.	8,191	84%	15.252
Kay County	12,926	29%	48.155	\$22,741	5,900	17%	1,516.21	7,026	70%	11.212
Kingfisher County	6,065	43%	15.707	\$26,791	1,193	30%	1,821.89	4,872	48%	11.317
Kiowa County	2,459	35%	6.927	\$23,062	167	6%	1,598.65	2,292	54%	4.209
Latimer County	10,438	98%	14.709	\$22,065	2,832	100%	1,186.77	7,606	98%	10.823
Le Flore County	17,286	35%	30.93	\$18,390	512	4%	1,364.64	16,774	47%	22.507
Lincoln County	18,230	55%	34.745	\$22,752	186	7%	1,036.96	18,044	59%	32.178
Logan County	16,729	37%	61.515	\$26,284	2,316	11%	928.581	14,413	59%	33.695
Love County	6,450	70%	17.981	\$20,151	.	.	.	6,450	70%	17.981
McClain County	7,708	20%	68.728	\$26,582	884	10%	1,517.43	6,824	22%	53.932
McCurtain County	29,747	97%	16.507	\$17,691	8,961	95%	1,201.73	20,786	99%	11.442
McIntosh County	14,139	76%	29.976	\$19,891	31	1%	1,866.52	14,108	87%	26.231
Major County	4,578	76%	6.322	\$27,225	.	.	.	4,578	76%	6.322
Marshall County	11,560	70%	44.645	\$20,831	289	6%	1,974.59	11,271	95%	32.314
Maves County	35,366	86%	63.022	\$20,848	9,496	100%	1,722.32	25,870	81%	48.945
Murray County	5,045	40%	30.351	\$22,809	115	2%	1,268.21	4,930	83%	14.394
Muskogee County	20,518	30%	83.56	\$20,312	6,209	15%	1,458.48	14,309	52%	34.837

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Noble County	10,059	99%	13.895	\$22,996	4,343	98%	1,675.93	5,716	100%	7.853
Nowata County	5,452	60%	15.976	\$20,142	667	17%	1,311.92	4,785	92%	9.207
Okfuskee County	9,338	89%	16.928	\$16,664	2,822	99%	1,825.65	6,516	85%	12.358
Oklahoma County	43,346	6%	1,107.81	\$27,114	22,695	3%	2,358.51	20,651	42%	122.684
Okmulgee County	14,582	40%	52.612	\$20,198	2,323	13%	1,316.10	12,259	68%	26.524
Osage County	27,496	61%	20.043	\$22,530	8,621	47%	1,441.09	18,875	71%	11.863
Ottawa County	10,628	37%	61.284	\$18,231	180	1%	1,809.03	10,448	73%	30.962
Pawnee County	14,909	100%	26.25	\$21,660	2,668	100%	1,718.51	12,241	100%	21.612
Payne County	24,307	30%	116.836	\$21,452	7,832	15%	2,180.29	16,475	63%	39.692
Pittsburg County	17,751	40%	33.948	\$22,719	4,397	20%	1,759.27	13,354	59%	17.625
Pontotoc County	11,104	29%	52.935	\$21,556	569	3%	1,495.23	10,535	52%	28.637
Pottawatomie County	10,652	15%	89.839	\$21,682	1,484	4%	1,557.24	9,168	25%	47.277
Pushmataha County	10,730	99%	7.728	\$20,108	.	.	.	10,730	99%	7.728
Roger Mills County	2,881	94%	2.688	\$26,104	.	.	.	2,881	94%	2.688
Rogers County	45,992	49%	138.64	\$27,488	7,768	16%	1,107.16	38,224	83%	72.693
Seminole County	13,789	57%	38.026	\$18,797	484	6%	1,717.37	13,305	86%	24.661
Sequoyah County	28,607	68%	62.412	\$18,639	7,922	57%	1,430.12	20,685	74%	42.28
Stephens County	13,946	31%	52.535	\$23,577	239	1%	1,901.55	13,707	69%	23.22
Texas County	18,413	96%	9.357	\$22,569	11,342	100%	2,347.67	7,071	91%	3.81
Tillman County	937	17%	6.358	\$18,449	8	0%	1,243.89	929	34%	3.184
Tulsa County	29,734	5%	1,149.55	\$27,995	16,053	3%	2,396.63	13,681	45%	98.697
Wagoner County	8,949	11%	144.99	\$25,239	216	0%	1,524.61	8,733	30%	55.579
Washington County	9,802	19%	126.065	\$27,514	940	2%	1,723.26	8,862	74%	30.553
Washita County	5,690	55%	10.296	\$24,213	114	4%	1,445.64	5,576	72%	7.763
Woods County	1,411	21%	5.3	\$25,494	780	16%	1,881.45	631	34%	1.46
Woodward County	15,502	75%	16.635	\$25,767	10,215	87%	1,405.26	5,287	60%	7.197
Oregon	416,102	10%	41.633	.	150,759	5%	2,969.70	265,343	37%	7.478
Baker County	12,681	88%	4.69	\$23,890	8,812	99%	1,767.43	3,869	70%	1.801
Benton County	1,181	1%	129.853	\$27,233	.	.	2,782.04	1,181	8%	23.985
Clackamas County	33,072	8%	209.105	\$33,126	13,405	4%	2,530.98	19,667	29%	38.921
Clatsop County	5,765	15%	46.887	\$26,281	.	.	1,671.11	5,765	39%	18.275
Columbia County	15,136	30%	77.839	\$26,316	2,829	10%	1,984.33	12,307	57%	33.476
Coos County	6,519	11%	38.702	\$22,993	.	.	1,726.39	6,519	28%	14.834
Crook County	10,004	47%	7.177	\$20,533	3,127	28%	1,785.76	6,877	68%	3.393
Curry County	982	5%	13.404	\$24,056	.	.	1,480.69	982	12%	5.122
Deschutes County	11,132	6%	59.487	\$28,054	472	0%	2,321.04	10,660	23%	15.919
Douglas County	8,640	8%	20.965	\$22,074	.	.	2,115.30	8,640	21%	8.258
Gilliam County	1,477	95%	1.291	\$27,401	.	.	.	1,477	95%	1.291
Grant County	1,833	28%	1.455	\$22,878	.	.	.	1,833	28%	1.455
Harney County	6,496	100%	0.641	\$20,455	3,748	100%	1,490.86	2,748	100%	0.271
Hood River County	9,812	42%	44.717	\$26,497	.	.	1,561.89	9,812	81%	23.55
Jackson County	16,956	8%	75.66	\$24,460	3,474	2%	2,404.63	13,482	34%	14.688
Jefferson County	8,180	38%	12.177	\$21,997	558	7%	1,527.56	7,622	56%	7.63
Josephine County	14,883	18%	50.954	\$22,412	.	.	2,006.15	14,883	41%	22.641
Klamath County	8,844	14%	10.785	\$21,740	.	.	1,894.66	8,844	39%	3.814
Lake County	2,441	34%	0.88	\$22,020	.	.	2,044.53	2,441	54%	0.558
Lane County	69,521	19%	79.368	\$24,720	32,141	11%	2,723.94	37,380	62%	13.469
Lincoln County	4,876	10%	48.376	\$25,130	879	3%	1,518.00	3,997	24%	17.566
Linn County	3,663	3%	54.346	\$21,363	290	0%	2,409.73	3,373	9%	16.564
Malheur County	9,019	30%	3.026	\$16,683	172	1%	1,944.23	8,847	64%	1.391
Marion County	7,733	2%	280.985	\$22,202	2,247	1%	3,221.59	5,486	14%	36.911
Morrow County	6,199	59%	5.148	\$20,750	2,637	43%	1,335.00	3,562	83%	2.129
Multnomah County	19,469	3%	1,792.10	\$31,047	17,177	2%	4,642.45	2,292	23%	36.883
Polk County	3,186	4%	113.281	\$23,891	252	0%	3,671.04	2,934	19%	21.526
Sherman County	1,412	100%	1.714	\$27,427	.	.	.	1,412	100%	1.714
Tillamook County	5,167	21%	22.041	\$22,417	453	6%	1,724.87	4,714	28%	15.258
Umatilla County	12,307	16%	23.757	\$20,887	3,458	6%	1,842.98	8,849	42%	6.553
Union County	7,022	28%	12.291	\$22,857	.	.	2,505.14	7,022	71%	4.855
Wallowa County	6,106	100%	1.941	\$23,996	.	.	.	6,106	100%	1.941
Wasco County	4,717	19%	10.26	\$21,865	.	.	1,771.97	4,717	62%	3.215
Washington County	60,370	11%	787.628	\$31,587	50,250	9%	4,286.53	10,120	34%	50.002
Wheeler County	1,026	100%	0.598	\$24,154	.	.	.	1,026	100%	0.598

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Yamhill County	18,275	17%	148.18	\$24,018	4,378	5%	2,661.64	13,897	62%	32,982
Pennsylvania	803,645	6%	287.825		270,708	3%	2,162.33	532,937	20%	67,531
Adams County	10,551	10%	199.392	\$27,701	2,219	5%	1,539.79	8,332	15%	112,399
Allegheny County	11,280	1%	1,647.63	\$32,378	10,808	1%	2,229.71	472	2%	148.87
Armstrong County	4,122	6%	101.218	\$24,266	1,001	5%	1,875.85	3,121	7%	70,114
Beaver County	4,342	3%	382.423	\$26,925	1,855	2%	1,345.84	2,487	6%	126.76
Bedford County	12,132	26%	46.53	\$23,075	616	8%	1,404.17	11,516	29%	39,235
Berks County	15,376	4%	496.55	\$26,998	10,887	3%	2,361.66	4,489	5%	137,491
Blair County	8,848	7%	238.669	\$23,785	5,215	6%	1,872.02	3,633	12%	64,815
Bradford County	23,982	39%	52.968	\$24,431	185	1%	1,785.07	23,797	55%	38,098
Bucks County	12,115	2%	1,062.66	\$37,910	11,724	2%	2,047.55	391	1%	173,683
Butler County	7,730	4%	239.074	\$31,818	2,716	2%	1,301.04	5,014	6%	110,327
Cambria County	13,860	10%	199.573	\$23,191	5,488	6%	1,472.10	8,372	19%	70,644
Cameron County	313	7%	11,259	\$25,087	24	1%	1,768.94	289	14%	5,187
Carbon County	2,098	3%	177.78	\$25,294	1,342	4%	1,680.16	756	2%	88,643
Centre County	24,551	15%	143.968	\$25,803	5,030	5%	2,710.29	19,521	38%	47,826
Chester County	7,071	1%	711.589	\$42,323	4,630	1%	1,325.35	2,441	3%	174,605
Clarion County	8,909	24%	62.954	\$22,341	1,836	20%	1,396.09	7,073	25%	48,011
Clearfield County	18,679	24%	67.224	\$21,102	6,068	17%	1,533.10	12,611	30%	37,337
Clinton County	3,676	10%	43.41	\$21,595	588	3%	1,417.54	3,088	18%	20,119
Columbia County	19,509	29%	138.12	\$23,913	7,822	20%	1,570.96	11,687	43%	59,351
Crawford County	20,772	24%	85.236	\$22,421	3,628	11%	1,467.69	17,144	32%	54,621
Cumberland County	21,116	9%	449.139	\$32,179	8,932	5%	1,918.34	12,184	23%	120,862
Dauphin County	5,011	2%	516.289	\$29,536	2,606	1%	1,888.39	2,405	7%	89,705
Delaware County	8,189	1%	3,096.59	\$33,539	8,181	1%	3,359.57	8	0%	177,633
Elk County	1,010	3%	36.812	\$24,071	9	0%	1,371.53	1,001	6%	20,623
Erie County	28,296	10%	354.023	\$24,505	7,370	3%	2,350.57	20,926	38%	79,422
Fayette County	15,787	12%	165.184	\$21,319	7,614	11%	1,272.15	8,173	13%	86,142
Forest County	2,480	31%	18.807	\$13,680	.	.	.	2,480	31%	18,807
Franklin County	18,600	12%	209.144	\$25,540	3,390	4%	1,495.80	15,210	24%	91,404
Fulton County	8,948	60%	34.307	\$23,192	.	.	.	8,948	60%	34,307
Greene County	4,316	12%	63.412	\$22,847	1,964	16%	1,750.15	2,352	10%	42,579
Huntingdon County	11,389	26%	50.812	\$20,918	2,217	16%	2,378.62	9,172	30%	35,547
Indiana County	19,861	23%	104.828	\$23,577	1,425	4%	2,089.15	18,436	36%	62,711
Jefferson County	4,304	10%	66.959	\$21,952	86	1%	1,378.57	4,218	15%	42,534
Juniata County	12,862	52%	62.67	\$22,134	1,765	40%	1,022.51	11,097	55%	51,864
Lackawanna County	30,119	14%	469.744	\$25,624	19,734	11%	2,367.35	10,385	29%	94,296
Lancaster County	20,206	4%	583.372	\$26,892	7,044	2%	1,692.40	13,162	11%	169,035
Lawrence County	4,119	5%	246.416	\$23,519	1,618	3%	1,536.89	2,501	7%	111,767
Lebanon County	6,122	4%	382.204	\$27,060	3,386	3%	1,797.45	2,736	7%	123,314
Lehigh County	278	0%	1,040.75	\$28,139	.	.	2,064.63	278	1%	153,428
Luzerne County	17,578	5%	360.098	\$25,091	6,675	3%	2,014.09	10,903	17%	85,356
Lycoming County	12,575	11%	90.888	\$23,531	1,109	2%	1,839.56	11,466	28%	33,946
McKean County	4,939	12%	43.162	\$23,034	277	2%	2,371.59	4,662	18%	27,29
Mercer County	15,798	14%	168.151	\$23,195	3,949	6%	1,555.85	11,849	24%	79,014
Mifflin County	14,441	31%	113.914	\$20,772	1,087	5%	1,491.65	13,354	56%	60,092
Monroe County	1,487	1%	281.894	\$25,266	307	0%	1,023.03	1,180	2%	126,471
Montgomery County	12,139	1%	1,694.29	\$41,699	11,927	2%	2,121.11	212	1%	223,61
Montour County	5,585	32%	133.973	\$30,455	930	12%	1,854.93	4,655	49%	75,773
Northampton County	37	0%	834.168	\$30,116	33	0%	1,941.19	4	0%	167,653
Northumberland County	18,122	20%	200.167	\$22,633	7,724	13%	2,421.59	10,398	33%	73,027
Perry County	12,648	27%	84.253	\$26,242	13	0%	2,029.17	12,635	31%	75,071
Philadelphia County	13,309	1%	11,713.22	\$22,542	13,309	1%	11,713.38	.	.	0
Pike County	625	1%	110.639	\$27,935	.	.	977.227	625	1%	80,448
Potter County	4,409	30%	13.805	\$22,997	.	.	.	4,409	30%	13,805
Schuylkill County	26,060	18%	190.435	\$23,249	14,155	15%	1,804.23	11,905	22%	73,747
Snyder County	17,142	45%	116.496	\$23,886	2,553	20%	1,144.38	14,589	57%	80,127
Somerset County	13,474	18%	69.206	\$22,618	511	2%	1,494.54	12,963	25%	49,186
Sullivan County	3,855	69%	12.497	\$23,418	.	.	.	3,855	69%	12,497
Susquehanna County	27,228	66%	49.918	\$25,454	3,201	49%	1,745.53	24,027	69%	42,18
Tioga County	11,692	29%	35.719	\$23,596	.	.	2,059.71	11,692	32%	32,036
Union County	9,503	21%	143.391	\$22,858	8,348	32%	1,617.42	1,155	6%	63,137

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Venango County	7,566	14%	79.029	\$22,923	391	2%	1,582.87	7,175	25%	43.858
Warren County	15,182	38%	45.379	\$25,054	3,295	18%	1,589.32	11,887	54%	25.452
Washington County	19,554	9%	244.409	\$29,816	7,081	5%	1,441.13	12,473	20%	84.252
Wayne County	24,504	45%	74.575	\$24,132	516	8%	1,398.01	23,988	50%	66.423
Westmoreland County	12,673	3%	352.564	\$28,654	7,282	3%	1,458.55	5,391	6%	110.964
Wyoming County	3,400	12%	70.411	\$25,306	126	3%	1,106.49	3,274	14%	59.237
York County	25,191	5%	512.542	\$28,454	14,886	4%	1,716.77	10,305	9%	162.831
Puerto Rico	2,259,097	62%	1,057.22	.	1,325,683	50%	1,591.75	933,414	98%	544.643
Adjuntas Municipio	87,792	97%	1,356.58	\$7,042	7,315	73%	1,292.74	80,477	100%	1,364.94
Aguada Municipio	80,166	90%	2,874.25	\$9,043	80,163	90%	2,874.15	3	100%	.
Aguadilla Municipio	17,541	51%	935.267	\$9,938	17,534	51%	940.419	7	100%	33.727
Aguas Buenas Municipio	20,644	75%	919.399	\$8,357	18,606	73%	1,281.54	2,038	96%	208.09
Aibonito Municipio	5,703	57%	317.335	\$8,766	3,773	47%	507.486	1,930	100%	124.479
Añasco Municipio	54,306	90%	1,528.06	\$8,223	9,366	63%	1,063.87	44,940	100%	1,786.69
Arecibo Municipio	65,288	70%	737.208	\$9,638	25,262	49%	978.54	40,026	97%	563.562
Arrovo Municipio	5,610	57%	657.201	\$7,996	3,968	48%	873.763	1,642	100%	293.274
Barceloneta Municipio	5,993	42%	757.024	\$7,967	490	6%	671.47	5,503	92%	914.877
Barranquitas Municipio	7,529	41%	538.907	\$7,611	6,523	39%	563.467	1,006	58%	379.829
Bayamón Municipio	4,503	5%	2,050.83	\$12,975	4,284	5%	2,050.83	219	100%	2,051.39
Cabo Rojo Municipio	23,196	70%	470.034	\$9,145	17,918	65%	704.446	5,278	96%	176.716
Caguas Municipio	45,493	45%	1,739.00	\$13,149	45,044	44%	1,916.50	449	91%	87.236
Camuy Municipio	3,578	33%	237.279	\$9,493	2,464	26%	412.611	1,114	70%	67.335
Canóvanas Municipio	9,271	58%	484.009	\$10,304	8,362	56%	568.01	909	99%	141.744
Carolina Municipio	10,059	22%	1,000.74	\$14,937	9,566	21%	1,123.07	493	83%	108.186
Cataño Municipio	4,189	38%	2,280.91	\$10,592	3,451	33%	2,154.80	738	100%	12,436.74
Cayey Municipio	27,890	34%	1,590.14	\$12,281	13,591	20%	2,925.59	14,299	100%	501.547
Ceiba Municipio	6,624	48%	477.075	\$10,640	244	3%	962.716	6,380	93%	315.385
Ciales Municipio	8,754	56%	233.612	\$6,684	1,179	20%	580.606	7,575	78%	171.968
Cidra Municipio	19,807	42%	1,300.84	\$11,572	18,707	41%	1,487.45	1,100	72%	274.18
Coamo Municipio	42,014	87%	616.582	\$9,311	8,577	59%	778.011	33,437	100%	565.47
Comerio Municipio	9,250	24%	1,373.53	\$7,152	8,338	22%	2,376.07	912	66%	109.914
Corozal Municipio	10,055	66%	356.73	\$7,820	9,479	65%	448.184	576	100%	57.76
Culebra Municipio	6,533	100%	562.033	\$9,041	.	.	.	6,533	100%	562.033
Dorado Municipio	4,593	30%	670.546	\$14,753	4,406	29%	745.821	187	89%	80.06
Fajardo Municipio	1,718	9%	611.941	\$10,590	711	4%	994.363	1,007	89%	89.528
Florida Municipio	501	20%	168.188	\$7,193	217	10%	348.62	284	100%	32.695
Guánica Municipio	6,405	56%	307.609	\$6,653	3,010	41%	1,083.03	3,395	85%	131.518
Guayama Municipio	16,814	59%	437.471	\$9,260	9,646	46%	1,141.57	7,168	99%	155.978
Guayanilla Municipio	273,104	99%	6,537.56	\$7,565	263,383	99%	18,161.71	9,721	100%	352.59
Guaynabo Municipio	5,342	11%	1,762.96	\$21,992	5,340	11%	1,768.83	2	100%	21.591
Gurabo Municipio	49,921	82%	2,190.56	\$14,523	49,909	83%	2,190.88	12	1%	2,166.95
Hatillo Municipio	2,572	23%	265.218	\$9,632	1,593	16%	408.219	979	98%	58.729
Hormigueros Municipio	14,260	73%	1,718.62	\$10,700	13,938	73%	2,616.89	322	99%	80.643
Humacao Municipio	6,688	25%	588.497	\$10,826	6,256	24%	698.43	432	79%	69.766
Isabela Municipio	47,581	90%	957.893	\$8,472	36,437	87%	1,381.15	11,144	100%	445.544
Jayuya Municipio	16,652	83%	450.811	\$7,454	7,516	69%	1,083.37	9,136	99%	267.934
Juana Díaz Municipio	22,557	74%	502.993	\$9,205	12,009	61%	722.772	10,548	100%	320.994
Juncos Municipio	7,862	39%	758.361	\$9,473	1,633	12%	634.196	6,229	95%	1,275.40
Lajas Municipio	11,001	61%	299.236	\$6,893	7,091	53%	780.463	3,910	86%	105.954
Lares Municipio	14,658	72%	330.137	\$7,055	11,254	67%	806.554	3,404	98%	85.358
Las Marias Municipio	37,182	98%	820.664	\$6,963	13,248	95%	3,772.20	23,934	99%	564.016
Las Piedras Municipio	39,273	86%	1,348.27	\$9,816	35,562	85%	1,534.38	3,711	100%	569.728
Loíza Municipio	4,121	32%	655.368	\$8,563	2,439	22%	1,051.45	1,682	99%	190.109
Luquillo Municipio	3,026	29%	405.866	\$10,495	1,406	18%	627.136	1,620	64%	191.732
Manatí Municipio	16,601	48%	769.741	\$10,390	2,642	13%	958.267	13,959	99%	597.139
Maricao Municipio	23,545	100%	643.074	\$6,373	4,004	100%	3,063.80	19,541	100%	553.494
Maunabo Municipio	10,526	88%	568.585	\$8,436	7,424	84%	1,601.66	3,102	99%	201.277
Mavagüez Municipio	51,709	74%	895.019	\$10,074	47,908	73%	1,704.44	3,801	98%	99.18
Moca Municipio	24,350	79%	609.51	\$7,834	19,576	76%	919.372	4,774	97%	220.438
Morovis Municipio	5,358	7%	1,854.67	\$7,722	2,768	4%	3,728.39	2,590	80%	158.418
Naguabo Municipio	120,994	92%	2,538.61	\$9,776	1,594	14%	618.429	119,400	100%	3,586.71
Naranjito Municipio	9,883	31%	1,169.10	\$9,481	9,883	31%	1,169.10	.	.	.

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Orocovis Municipio	43,753	93%	742.225	\$6,968	5,298	61%	520.304	38,455	100%	820.437
Patillas Municipio	9,154	69%	284.051	\$7,745	2,573	39%	635.053	6,581	99%	182.909
Peñuelas Municipio	15,668	79%	446.35	\$6,997	6,191	59%	940.345	9,477	100%	283.417
Ponce Municipio	256,896	87%	2,568.44	\$10,564	70,634	66%	2,342.29	186,262	100%	2,719.66
Quebradillas Municipio	9,307	76%	539.355	\$7,602	6,120	68%	604.309	3,187	100%	413.467
Rincón Municipio	20,900	87%	1,684.37	\$9,330	20,890	87%	1,683.67	10	100%	.
Río Grande Municipio	64,013	76%	1,384.24	\$10,391	62,859	76%	2,372.79	1,154	81%	55.224
Sabana Grande Municipio	10,695	63%	471.301	\$8,013	4,471	42%	646.076	6,224	100%	322.504
Salinas Municipio	21,640	71%	436.761	\$7,992	8,918	52%	1,844.17	12,722	96%	219.565
San Germán Municipio	42,015	84%	917.727	\$9,098	27,995	78%	1,161.34	14,020	99%	600.213
San Juan Municipio	11,395	5%	4,471.17	\$16,931	11,329	5%	4,469.98	66	89%	19,752.56
San Lorenzo Municipio	12,312	60%	384.371	\$9,912	11,021	58%	599.422	1,291	100%	60.877
San Sebastián Municipio	28,146	38%	1,040.54	\$7,384	19,649	30%	1,536.87	8,497	97%	307.929
Santa Isabel Municipio	21,435	86%	732.733	\$8,863	17,468	85%	2,134.28	3,967	90%	181.235
Toa Alta Municipio	7,526	34%	825.905	\$13,197	7,526	34%	825.905	.	.	.
Toa Baja Municipio	5,734	19%	1,300.86	\$11,736	5,020	17%	1,409.53	714	95%	322.733
Trujillo Alto Municipio	3,790	12%	1,461.70	\$15,182	3,790	12%	1,461.70	.	.	.
Utado Municipio	18,317	17%	951.401	\$7,642	3,552	4%	6,691.18	14,765	92%	160.894
Vega Alta Municipio	9,863	30%	1,167.70	\$10,072	7,787	26%	1,276.06	2,076	94%	541.772
Vega Baja Municipio	34,643	65%	1,159.34	\$9,145	24,601	58%	1,502.82	10,042	92%	615.914
Vieques Municipio	18,397	100%	362.374	\$8,611	8,342	100%	1,607.68	10,055	100%	220.605
Villalba Municipio	60,911	93%	1,846.27	\$8,271	39,238	89%	2,906.07	21,673	100%	1,059.82
Yabucoa Municipio	27,252	79%	625.921	\$7,864	20,101	75%	1,112.99	7,151	91%	252.165
Yauco Municipio	74,750	90%	1,214.81	\$7,858	23,303	74%	1,952.16	51,447	100%	988.101
Rhode Island	17,996	2%	1,015.87	.	15,757	2%	2,377.94	2,239	2%	154.028
Bristol County	15	0%	2,052.92	\$38,312	15	0%	2,300.73	.	.	192.247
Kent County	2,533	2%	977.685	\$34,110	2,499	2%	2,096.35	34	0%	139.532
Newport County	3,519	4%	799.641	\$41,326	3,114	4%	1,579.98	405	4%	174.834
Providence County	8,159	1%	1,528.71	\$26,690	7,932	1%	3,360.71	227	1%	147.341
Washington County	3,770	3%	388.683	\$36,805	2,197	2%	1,037.44	1,573	4%	160.866
South Carolina	852,483	18%	161.982	.	247,842	8%	1,385.08	604,641	38%	56.741
Abbeville County	2,562	11%	48.383	\$18,303	133	3%	1,080.29	2,429	13%	38.483
Aiken County	19,316	12%	154.189	\$25,093	1,932	2%	1,213.36	17,384	29%	61.861
Allendale County	9,076	100%	22.24	\$12,277	2,936	100%	1,278.29	6,140	100%	15.131
Anderson County	10,300	5%	272.678	\$22,216	2,631	2%	962.348	7,669	10%	126.15
Bamberg County	14,224	100%	36.205	\$19,136	6,598	100%	1,201.18	7,626	100%	19.662
Barnwell County	18,498	87%	38.837	\$18,695	3,718	100%	1,027.07	14,780	84%	32.27
Beaufort County	64,391	36%	313.639	\$32,290	50,387	34%	1,201.77	14,004	41%	74.442
Berkeley County	21,688	11%	182.71	\$24,474	5,924	4%	2,281.30	15,764	28%	53.479
Calhoun County	3,479	25%	36.261	\$23,042	.	.	.	3,479	25%	36.261
Charleston County	20,944	6%	398.32	\$31,198	12,826	4%	1,844.93	8,118	21%	51.428
Cherokee County	5,891	11%	139.281	\$19,185	.	.	1,093.47	5,891	18%	89.585
Chester County	28,153	91%	53.557	\$18,433	8,563	100%	1,237.61	19,590	87%	39.278
Chesterfield County	28,682	65%	55.254	\$17,317	3,888	34%	1,001.59	24,794	76%	41.541
Clarendon County	13,665	40%	56.825	\$17,517	.	.	1,209.41	13,665	46%	49.092
Colleton County	19,154	51%	35.219	\$18,517	70	1%	1,038.98	19,084	67%	27.008
Darlington County	9,228	14%	118.007	\$19,800	.	.	1,098.16	9,228	24%	71.582
Dillon County	6,679	22%	74.27	\$15,010	.	.	1,248.05	6,679	32%	53.12
Dorchester County	14,351	9%	276.779	\$24,633	2	0%	2,475.31	14,349	50%	55.5
Edgefield County	14,895	56%	53.453	\$20,809	4,582	63%	1,089.36	10,313	53%	39.429
Fairfield County	22,223	99%	32.721	\$20,993	4,538	99%	1,177.03	17,685	99%	26.181
Florence County	15,743	11%	173.512	\$22,522	.	.	1,329.42	15,743	30%	71.203
Georgetown County	6,565	11%	74.412	\$24,483	.	.	1,097.21	6,565	27%	31.54
Greenville County	4,679	1%	631.512	\$27,097	.	.	1,613.56	4,679	8%	119.718
Greenwood County	66,002	94%	153.71	\$21,050	40,556	95%	1,222.52	25,446	93%	65.036
Hampton County	11,670	59%	35.074	\$19,849	297	7%	752.824	11,373	74%	27.795
Horry County	1,747	1%	270.374	\$23,693	100	0%	1,396.30	1,647	2%	91.914
Jasper County	24,829	95%	39.926	\$17,606	8,350	94%	1,055.73	16,479	95%	26.763
Kershaw County	35,653	55%	89.472	\$21,851	13,014	47%	899.771	22,639	61%	53.277
Lancaster County	8,487	10%	151.819	\$21,943	53	0%	1,139.44	8,434	21%	79.303
Laurens County	15,048	23%	89.717	\$19,953	44	0%	1,218.94	15,004	36%	59.446
Lee County	9,414	54%	42.869	\$15,095	.	.	2,298.26	9,414	77%	30.129

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Lexington County	28,971	10%	409.493	\$27,026	696	0%	1,176.29	28,275	39%	139.538
McCormick County	4,089	43%	26.464	\$21,730	.	.	.	4,089	43%	26.464
Marion County	8,715	29%	61.519	\$16,743	.	.	1,414.97	8,715	48%	38.012
Marlboro County	27,101	99%	56.926	\$14,925	12,672	100%	1,511.56	14,429	99%	31.051
Newberry County	14,129	39%	57.855	\$22,073	772	7%	1,272.95	13,357	54%	39.979
Oconee County	62,036	82%	120.793	\$24,321	25,320	96%	798.528	36,716	75%	82.879
Orangeburg County	37,356	43%	79.024	\$17,645	.	.	1,023.92	37,356	68%	51.162
Pickens County	40,680	33%	246.354	\$21,090	32,063	41%	1,105.34	8,617	20%	101.817
Richland County	10,322	3%	540.881	\$25,920	.	.	1,931.29	10,322	29%	62.623
Saluda County	16,579	90%	40.907	\$19,601	3,511	92%	1,561.12	13,068	89%	32.645
Spartanburg County	11,858	4%	371.122	\$22,330	245	0%	1,004.35	11,613	14%	137.176
Sumter County	8,363	8%	157.177	\$20,395	.	.	1,092.91	8,363	26%	54.628
Union County	4,106	15%	52.224	\$19,253	.	.	1,008.31	4,106	24%	34.605
Williamsburg County	14,860	47%	33.79	\$15,933	8	0%	1,044.68	14,852	58%	27.58
York County	16,082	6%	384.289	\$26,875	1,413	1%	1,393.75	14,669	25%	109.122
South Dakota	92,406	11%	11.107	.	9,962	2%	2,299.50	82,444	26%	4.256
Aurora County	261	12%	2.985	\$24,074	.	.	.	261	12%	2.985
Beadle County	2,634	16%	12.846	\$24,265	446	4%	1,734.99	2,188	59%	2.949
Bennett County	78	3%	2.527	\$16,032	.	.	.	78	3%	2.527
Bon Homme County	1,971	32%	10.777	\$21,983	.	.	.	1,971	32%	10.777
Brookings County	1,313	4%	43.264	\$24,694	.	.	2,677.91	1,313	15%	11.345
Brown County	.	.	21.889	\$27,958	.	.	2,178.02	.	.	5.73
Brule County	747	15%	6.099	\$22,083	.	.	.	747	15%	6.099
Buffalo County	1,539	79%	4.118	\$11,719	.	.	.	1,539	79%	4.118
Butte County	3,653	33%	4.918	\$22,459	188	3%	2,262.85	3,465	68%	2.262
Campbell County	216	23%	1.259	\$31,665	.	.	.	216	23%	1.259
Charles Mix County	5,417	69%	7.165	\$19,901	.	.	.	5,417	69%	7.165
Clark County	1,238	43%	3.003	\$28,434	.	.	.	1,238	43%	3.003
Clay County	3,086	22%	33.424	\$21,044	1,404	13%	3,180.49	1,682	60%	6.814
Codington County	4,320	15%	41.466	\$25,624	45	0%	1,708.57	4,275	75%	8.458
Corson County	589	17%	1.432	\$15,854	.	.	.	589	17%	1.432
Custer County	2,126	27%	5.128	\$28,855	.	.	.	2,126	27%	5.128
Davison County	1,762	9%	45.666	\$25,544	16	0%	2,298.75	1,746	42%	9.769
Day County	456	11%	4.193	\$23,651	.	.	.	456	11%	4.193
Deuel County	769	22%	5.5	\$28,810	.	.	.	769	22%	5.5
Dewey County	4,656	99%	2.045	\$15,404	1,862	100%	2,735.85	2,794	98%	1.236
Douglas County	.	.	4.685	\$27,978	.	.	.	.	.	4.685
Edmunds County	235	7%	3.172	\$27,271	.	.	.	235	7%	3.172
Fall River County	.	.	3.649	\$25,191	.	.	1,558.73	.	.	1.761
Faulk County	32	2%	1.886	\$25,494	.	.	.	32	2%	1.886
Grant County	2,320	37%	9.213	\$26,219	.	.	1,513.69	2,320	75%	4.581
Gregory County	4	0%	3.251	\$23,879	.	.	.	4	0%	3.251
Haakon County	16	1%	0.858	\$24,265	.	.	.	16	1%	0.858
Hamlin County	3,262	58%	11.044	\$25,861	.	.	.	3,262	58%	11.044
Hand County	719	25%	2.007	\$27,345	.	.	.	719	25%	2.007
Hanson County	678	25%	6.297	\$23,460	.	.	.	678	25%	6.297
Harding County	826	88%	0.353	\$23,472	.	.	.	826	88%	0.353
Hughes County	1,613	9%	23.79	\$29,501	60	0%	1,408.02	1,553	36%	5.875
Hutchinson County	11	0%	7.264	\$26,093	.	.	.	11	0%	7.264
Hyde County	.	.	0.958	\$27,010	.	.	.	.	.	0.958
Jackson County	.	.	1.423	\$19,333	.	.	.	.	.	1.423
Jerauld County	.	.	2.717	\$28,985	.	.	.	.	.	2.717
Jones County	4	1%	0.688	\$26,504	.	.	.	4	1%	0.688
Kingsbury County	1,713	38%	5.347	\$28,092	.	.	.	1,713	38%	5.347
Lake County	1,678	14%	20.642	\$28,245	86	1%	2,377.47	1,592	33%	8.727
Lawrence County	3,360	13%	32.989	\$28,120	152	1%	2,041.53	3,208	33%	12.107
Lincoln County	4,368	8%	98.756	\$34,624	932	2%	2,889.06	3,436	25%	24.391
Lyman County	809	25%	1.999	\$20,923	.	.	.	809	25%	1.999
McCook County	73	2%	8.088	\$27,830	.	.	.	73	2%	8.088
McPherson County	611	32%	1.657	\$22,515	.	.	.	611	32%	1.657
Marshall County	778	20%	4.603	\$26,460	.	.	.	778	20%	4.603
Meade County	3,589	14%	7.398	\$27,114	490	3%	1,520.47	3,099	32%	2.779

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Mellette County			1,228	\$14,882						1,228
Miner County			3.2	\$31,017						3.2
Minnehaha County	3,350	2%	240,797	\$27,143	672	0%	2,922.64	2,678	11%	33.56
Moody County	1,702	31%	10,651	\$26,995				1,702	31%	10,651
Pennington County	6,872	6%	40,733	\$26,906	1,685	2%	2,092.71	5,187	23%	8,089
Perkins County	2,102	91%	0.801	\$25,458				2,102	91%	0.801
Potter County			1,978	\$26,923						1,978
Roberts County	3,555	41%	7,784	\$22,674				3,555	41%	7,784
Sanborn County	139	9%	2,803	\$27,076				139	9%	2,803
Shannon County	407	3%	6,731	\$9,226			2,778.29	407	4%	5.25
Spink County	12	0%	3,503	\$27,971				12	0%	3,503
Stanley County	362	13%	1,97	\$30,188	153	8%	1,019.53	209	21%	0.69
Sully County			1,106	\$36,707						1,106
Todd County	445	4%	7.24	\$11,101				445	4%	7.24
Tripp County			2,769	\$24,308			1,456.50			1,191
Turner County	769	11%	11,518	\$26,263				769	11%	11,518
Union County	4,168	27%	33,919	\$37,326	637	10%	1,184.77	3,531	39%	19,661
Walworth County	35	1%	6,617	\$27,095			1,882.50	35	2%	2,062
Yankton County	2,503	11%	44,923	\$26,831	331	2%	2,952.10	2,172	30%	13,904
Ziebach County	2,455	89%	1,414	\$12,764	803	100%	1,159.33	1,652	84%	1,005
Tennessee	834,545	13%	160.29		106,128	2%	1,528.99	728,417	34%	56,551
Anderson County	2,839	4%	231,583	\$25,353	1,207	2%	1,150.01	1,632	6%	91.3
Bedford County	13,336	28%	101,684	\$19,855			1,630.10	13,336	51%	56,926
Benton County	9,615	62%	39,115	\$19,168			830,945	9,615	80%	30,915
Bledsoe County	12,449	99%	31,044	\$16,631				12,449	99%	31,044
Blount County	3,499	3%	233,717	\$24,507	243	0%	987.752	3,256	8%	90,923
Bradley County	3,632	3%	315,973	\$22,294			1,309.21	3,632	11%	123,575
Campbell County	6,104	15%	84,827	\$17,242	443	2%	935.851	5,661	25%	48,243
Cannon County	14,265	99%	54,213	\$20,974	2,642	97%	1,864.36	11,623	100%	44,176
Carroll County	8,039	30%	44,262	\$19,461			1,274.17	8,039	37%	36,563
Carter County	4,407	8%	168,111	\$19,385	103	0%	977.47	4,304	18%	76.25
Cheatham County	6,239	16%	133,079	\$23,730	801	11%	964,976	5,438	16%	112,321
Chester County	8,401	49%	60,118	\$19,059			1,324.69	8,401	76%	39,426
Claiborne County	15,537	47%	75,473	\$18,322	2,165	23%	936,759	13,372	57%	55,346
Clay County	1,393	18%	31,851	\$16,802				1,393	18%	31,851
Cocke County	12,513	35%	82,197	\$18,113	146	1%	1,183.96	12,367	51%	56,694
Coffee County	8,780	16%	126,798	\$21,123			1,265.49	8,780	34%	63,242
Crockett County	4,498	33%	51,944	\$19,270			1,147.14	4,498	49%	34,948
Cumberland County	25,770	44%	86,746	\$21,674	378	2%	847.62	25,392	71%	54,808
Davidson County	26,125	4%	1,306.13	\$28,971	25,681	4%	2,159.23	444	2%	105,066
Decatur County	5,221	48%	32,305	\$23,760				5,221	48%	32,305
DeKalb County	4,516	24%	62,235	\$22,451	172	4%	1,312.55	4,344	29%	48,994
Dickson County	12,720	25%	103,467	\$22,191	298	2%	951,153	12,422	36%	72,612
Dyer County	3,478	9%	74,296	\$22,925	314	1%	1,335.82	3,164	20%	32,55
Fayette County	8,707	21%	59,066	\$28,946	270	3%	1,135.04	8,437	26%	46,073
Fentress County	1,354	7%	37,137	\$16,283				1,354	7%	37,137
Franklin County	9,146	23%	70,509	\$23,099	422	4%	713,957	8,724	32%	50,626
Gibson County	12,624	25%	82,644	\$20,189	3,860	15%	1,497.37	8,764	37%	40,909
Giles County	14,201	51%	45,367	\$20,182			1,378.17	14,201	69%	33,813
Grainger County	8,103	35%	82,434	\$18,475				8,103	35%	82,434
Greene County	3,973	6%	111.16	\$19,998	723	3%	923,444	3,250	7%	75,34
Grundtv County	2,131	17%	35,325	\$15,581				2,131	17%	35,325
Hamblen County	1,151	2%	400,419	\$20,675	100	0%	1,038.06	1,051	8%	122,979
Hamilton County	4,857	1%	641,855	\$27,464	3,097	1%	1,385.71	1,760	5%	110,525
Hancock County	5,253	81%	29,064	\$15,464				5,253	81%	29,064
Hardeman County	13,482	53%	38,163	\$14,954	141	3%	1,004.78	13,341	65%	30,888
Hardin County	9,200	37%	43,25	\$20,949			1,061.17	9,200	55%	29,446
Hawkins County	15,896	28%	118,324	\$21,259	153	1%	988,497	15,743	47%	71,775
Haywood County	5,473	32%	32,322	\$18,998	11	0%	1,619.55	5,462	69%	14,952
Henderson County	9,721	35%	53,579	\$19,847			1,110.29	9,721	46%	41,187
Henry County	4,463	14%	55,764	\$21,941			1,032.67	4,463	21%	37,722
Hickman County	15,465	65%	39,058	\$18,147				15,465	65%	39,058

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Houston County	8,129	99%	41.176	\$19,230	.	.	.	8,129	99%	41.176
Humphreys County	10,951	61%	33.581	\$21,883	137	4%	829.534	10,814	74%	27.901
Jackson County	1,099	10%	36.65	\$18,452	.	.	.	1,099	10%	36.65
Jefferson County	16,564	30%	198.163	\$21,603	227	1%	828.932	16,337	51%	130.34
Johnson County	1,165	7%	59.935	\$17,273	.	.	880.758	1,165	8%	51.694
Knox County	8,579	2%	906.313	\$28,255	6,661	2%	1,576.92	1,918	4%	200.672
Lake County	3,204	44%	43.707	\$11,875	.	.	.	3,204	44%	43.707
Lauderdale County	9,580	35%	57.969	\$15,715	137	1%	1,004.27	9,443	60%	34.356
Lawrence County	21,899	54%	65.947	\$19,298	.	.	1,071.12	21,899	71%	50.824
Lewis County	4,680	39%	42.004	\$17,962	.	.	948.416	4,680	56%	29.854
Lincoln County	9,764	29%	58.995	\$21,686	2	0%	941.977	9,762	40%	43.698
Loudon County	3,965	8%	224.269	\$28,191	8	0%	922.861	3,957	19%	105.263
McMinn County	15,867	31%	120.667	\$20,615	971	5%	1,017.88	14,896	47%	77.066
McNairy County	12,651	50%	45.338	\$17,516	62	2%	805.666	12,589	58%	38.971
Macon County	13,880	61%	74.034	\$17,386	63	1%	1,158.97	13,817	76%	59.824
Madison County	3,674	4%	177.988	\$23,398	33	0%	1,417.92	3,641	15%	48.852
Marion County	3,537	13%	54.641	\$21,127	5	0%	1,047.82	3,532	17%	42.361
Marshall County	11,505	36%	85.104	\$21,241	.	.	1,461.69	11,505	54%	57.603
Mauzy County	5,384	6%	143.165	\$23,259	113	0%	1,271.58	5,271	15%	63.464
Meigs County	6,504	57%	58.886	\$18,465	.	.	.	6,504	57%	58.886
Monroe County	16,347	35%	73.305	\$19,880	.	.	959.75	16,347	46%	57.213
Montgomery County	11,610	6%	358.851	\$22,867	6,374	4%	1,631.69	5,236	14%	82.84
Moore County	3,687	57%	50.038	\$25,687	.	.	789.845	3,687	57%	49.972
Morgan County	19,024	86%	42.301	\$16,927	8	33%	437.439	19,016	86%	42.26
Obion County	7,893	27%	53.82	\$21,929	133	1%	1,451.92	7,760	43%	33.647
Overton County	3,913	17%	51.94	\$18,679	17	0%	1,044.77	3,896	20%	44.238
Perry County	6,042	80%	18.161	\$16,597	.	.	.	6,042	80%	18.161
Pickett County	158	3%	30.12	\$20,590	.	.	.	158	3%	30.12
Polk County	3,507	22%	36.827	\$20,825	.	.	.	3,507	22%	36.827
Putnam County	4,183	5%	191.454	\$21,470	274	1%	1,066.54	3,909	15%	75.106
Rhea County	12,001	37%	103.616	\$19,764	.	.	1,164.94	12,001	54%	72.146
Roane County	12,999	24%	149.905	\$23,478	1,207	5%	837.183	11,792	42%	85.225
Robertson County	13,965	19%	151.913	\$24,049	619	2%	1,397.63	13,346	35%	84.105
Rutherford County	14,143	5%	494.1	\$25,057	8,375	3%	1,945.28	5,768	12%	102.343
Scott County	19,419	88%	41.413	\$17,680	4,058	95%	756.59	15,361	86%	33.744
Sequatchie County	13,133	88%	55.992	\$22,300	4,016	99%	920.437	9,117	84%	41.485
Sevier County	8,089	8%	163.632	\$22,125	128	0%	1,014.33	7,961	15%	99.033
Shelby County	25,402	3%	1,229.86	\$25,913	21,726	2%	2,364.08	3,676	14%	68.534
Smith County	6,313	32%	61.968	\$21,354	28	1%	1,126.23	6,285	39%	52.066
Stewart County	4,686	36%	28.696	\$21,598	.	.	.	4,686	36%	28.696
Sullivan County	.	.	384.667	\$24,085	.	.	1,031.41	.	.	135.936
Sumner County	12,076	7%	334.434	\$28,393	2,157	2%	1,478.19	9,919	20%	110.092
Tipton County	10,590	16%	143.678	\$23,205	784	3%	1,113.61	9,806	28%	82.46
Trousdale County	2,843	35%	71.108	\$20,298	.	.	.	2,843	35%	71.108
Unicoi County	3,367	19%	95.764	\$21,162	664	7%	1,390.58	2,703	33%	45.344
Union County	3,312	17%	84.813	\$18,053	.	.	.	3,312	17%	84.813
Van Buren County	2,702	50%	19.94	\$19,945	.	.	.	2,702	50%	19.94
Warren County	6,552	17%	91.557	\$20,048	.	.	1,174.99	6,552	27%	57.249
Washington County	3,503	3%	400.288	\$26,083	953	1%	1,175.73	2,550	7%	141.371
Wayne County	10,972	69%	21.626	\$15,812	.	.	.	10,972	69%	21.626
Weakley County	12,310	37%	57.486	\$19,516	.	.	1,293.73	12,310	57%	37.997
White County	7,281	27%	70.947	\$17,529	.	.	889.957	7,281	35%	56.436
Williamson County	13,201	6%	363.873	\$42,675	2,766	2%	1,654.47	10,435	27%	81.279
Wilson County	8,165	6%	224.574	\$28,435	52	0%	1,234.47	8,113	17%	94.591
Texas	2,976,879	11%	103.233	.	1,216,234	5%	2,643.59	1,760,645	46%	15.24
Anderson County	37,585	65%	54.258	\$18,623	3,989	22%	1,089.35	33,596	86%	37.404
Andrews County	389	3%	10.324	\$29,363	129	1%	2,061.22	260	10%	1.744
Angelina County	18,881	21%	110.822	\$21,521	2,804	6%	1,212.13	16,077	42%	50.489
Aransas County	11	0%	90.692	\$25,906	.	.	975.259	11	0%	27.116
Archer County	3,087	36%	9.527	\$28,250	.	.	1,552.85	3,087	41%	8.429
Armstrong County	863	62%	1.534	\$27,199	.	.	.	863	62%	1.534
Atascosa County	4,831	11%	36.764	\$21,957	1,925	11%	1,635.85	2,906	10%	22.994

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Austin County	25,449	89%	44.465	\$27,490	7,206	74%	1,809.12	18,243	96%	29.649
Bailey County	6,537	100%	7.906	\$18,082	5,001	100%	2,060.34	1,536	100%	1.863
Bandera County	20,148	100%	25.473	\$26,900	.	.	.	20,148	100%	25.473
Bastrop County	88	0%	86.697	\$23,605	.	.	1,476.77	88	0%	57.043
Baylor County	46	2%	3.197	\$30,573	.	.	.	46	2%	3.197
Bee County	.	.	35.898	\$16,509	.	.	1,476.49	.	.	15.712
Bell County	39,686	11%	329.238	\$23,335	12,013	4%	2,471.06	27,673	54%	54.967
Bexar County	3,938	0%	1,522.72	\$24,525	93	0%	3,464.57	3,845	4%	118.803
Blanco County	7,814	79%	13.943	\$28,113	.	.	.	7,814	79%	13.943
Borden County	371	81%	0.509	\$47,823	.	.	.	371	81%	0.509
Bosque County	920	6%	16.418	\$24,290	.	.	1,349.75	920	7%	13.466
Bowie County	2,842	3%	102.779	\$22,977	680	1%	1,101.05	2,162	7%	38.692
Brazoria County	88,428	26%	253.422	\$30,134	34,661	13%	2,102.87	53,767	75%	58.602
Brazos County	28,277	13%	365.298	\$23,243	16,198	9%	2,643.38	12,079	48%	48.757
Brewster County	2,841	36%	1.293	\$27,095	434	8%	1,241.88	2,407	86%	0.455
Briscoe County	1,161	100%	1.29	\$22,197	.	.	.	1,161	100%	1.29
Brooks County	492	7%	7.193	\$14,353	.	.	2,252.83	492	23%	2.293
Brown County	34,869	97%	37.872	\$20,533	21,053	99%	1,258.07	13,816	96%	15.533
Burleson County	15,373	97%	24.164	\$23,223	3,108	86%	1,181.43	12,265	99%	18.798
Burnet County	25,330	57%	44.844	\$25,757	7,438	38%	1,362.22	17,892	72%	25.504
Caldwell County	2	0%	68.326	\$20,368	.	.	1,274.61	2	0%	29.967
Calhoun County	3,034	15%	41.06	\$24,142	35	0%	2,141.30	2,999	33%	17.952
Callahan County	3,445	26%	14.659	\$22,008	73	2%	1,389.26	3,372	37%	10.304
Cameron County	31,921	7%	493.901	\$14,898	10,369	3%	2,313.18	21,552	59%	51.016
Camp County	6,598	52%	64.22	\$18,873	368	8%	1,156.15	6,230	81%	40.136
Carson County	1,437	28%	5.501	\$27,062	18	7%	479.008	1,419	29%	5.238
Cass County	11,477	41%	30.028	\$20,534	139	2%	732.115	11,338	54%	22.579
Castro County	2,961	43%	7.766	\$22,198	434	11%	2,021.84	2,527	87%	3.27
Chambers County	15,551	42%	62.359	\$30,102	7,313	35%	986.964	8,238	51%	28.311
Cherokee County	31,172	63%	46.972	\$19,683	3,909	22%	1,400.29	27,263	87%	30.184
Childress County	5,547	94%	8.501	\$20,982	3,762	92%	1,505.41	1,785	97%	2.66
Clay County	8,279	95%	8.03	\$25,729	2,047	99%	1,573.50	6,232	93%	6.136
Cochran County	689	31%	2.879	\$18,318	.	.	.	689	31%	2.879
Coke County	2,197	97%	2.495	\$28,741	.	.	.	2,197	97%	2.495
Coleman County	7,171	100%	5.682	\$21,332	3,696	100%	1,478.31	3,475	100%	2.759
Collin County	6,259	1%	1,065.98	\$38,575	301	0%	3,166.75	5,958	13%	77.802
Collingsworth County	209	9%	2.57	\$21,594	.	.	.	209	9%	2.57
Colorado County	1,926	10%	19.623	\$24,112	.	.	1,464.75	1,926	17%	12.122
Comal County	6,362	5%	221.791	\$33,020	3,126	5%	1,503.38	3,236	6%	111.928
Comanche County	12,711	100%	13.578	\$19,125	3,676	100%	1,493.82	9,035	100%	9.684
Concho County	3,398	100%	3.454	\$20,503	.	.	.	3,398	100%	3.454
Cooke County	9,371	26%	41.729	\$25,823	539	4%	1,841.70	8,832	41%	24.62
Coryell County	27,469	35%	74.478	\$19,410	15,829	25%	2,454.94	11,640	84%	13.528
Cottle County	962	100%	1.068	\$19,813	.	.	.	962	100%	1.068
Crane County	4,199	96%	5.56	\$24,344	3,721	96%	2,905.16	478	99%	0.618
Crockett County	3,347	100%	1.192	\$24,862	2,613	100%	1,447.54	734	100%	0.262
Crosby County	1,311	27%	5.297	\$19,740	.	.	.	1,311	27%	5.297
Culberson County	1,674	100%	0.439	\$16,120	.	.	.	1,674	100%	0.439
Dallam County	1,276	20%	4.2	\$20,528	202	4%	2,310.85	1,074	89%	0.806
Dallas County	.	.	2,853.61	\$27,195	.	.	3,571.79	.	.	92.723
Dawson County	1,195	10%	13.56	\$19,725	376	4%	1,987.30	819	51%	1.808
Deaf Smith County	2,026	10%	13.008	\$17,855	22	0%	2,588.07	2,004	69%	1.953
Delta County	4,497	100%	17.51	\$20,251	.	.	.	4,497	100%	17.51
Denton County	.	.	858.46	\$34,528	.	.	2,946.48	.	.	78.038
DeWitt County	12	0%	19.211	\$26,104	.	.	1,425.85	12	0%	9.293
Dickens County	1,515	100%	1.68	\$20,353	.	.	.	1,515	100%	1.68
Dimmit County	1,057	12%	6.618	\$20,822	.	.	1,435.77	1,057	33%	2.413
Donley County	1,463	53%	2.987	\$21,264	.	.	.	1,463	53%	2.987
Duval County	4,951	49%	5.605	\$21,334	.	.	2,217.54	4,951	75%	3.676
Eastland County	14,238	87%	17.644	\$22,171	5,701	88%	1,588.82	8,537	87%	10.68
Ector County	33,841	23%	164.055	\$25,726	20,570	15%	2,307.78	13,271	93%	17.014
Edwards County	1,618	100%	0.764	\$28,407	.	.	.	1,618	100%	0.764

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Ellis County			177,497	\$25,924			1,353.05			60,972
El Paso County	10,332	1%	852,413	\$18,705	6,155	1%	3,580.14	4,177	25%	21,519
Erath County	7,508	19%	35.71	\$21,306	3,414	16%	2,039.42	4,094	23%	16,586
Falls County	10,919	71%	20,162	\$16,749	5,499	100%	1,440.96	5,420	55%	13,044
Fannin County	19,753	61%	36,606	\$20,784	12	0%	1,862.07	19,741	86%	25,868
Fayette County	4,227	19%	23,778	\$28,403	1,824	24%	1,412.16	2,403	16%	15,977
Fisher County	2,840	100%	3,168	\$25,235				2,840	100%	3,168
Floyd County	2,228	48%	4,683	\$22,375	40	2%	1,406.81	2,188	95%	2,334
Foard County	34	4%	1,143	\$21,105				34	4%	1,143
Fort Bend County	51,377	7%	804,617	\$35,024	27,615	4%	2,909.43	23,762	65%	57,507
Franklin County	5,972	57%	37,012	\$28,058	119	4%	917.689	5,853	81%	25,706
Freestone County	10,399	56%	21,21	\$23,008	2,850	49%	751.775	7,549	59%	14,67
Frio County	91	1%	14,275	\$15,732			2,079.99	91	3%	3,086
Gaines County	6,624	37%	11,952	\$21,690	78	1%	2,176.99	6,546	58%	7,567
Galveston County	18,735	6%	799,161	\$31,030	13,193	5%	2,007.61	5,542	31%	75,814
Garza County	411	7%	6,644	\$17,389	5	0%	2,618.33	406	37%	1,242
Gillespie County	8,656	34%	24,319	\$30,757			1,560.55	8,656	62%	13,258
Glasscock County	726	88%	0,918	\$39,169				726	88%	0,918
Goliad County	405	6%	8,074	\$30,556				405	6%	8,074
Gonzales County	13	0%	17,132	\$20,794			1,745.95	13	0%	11,12
Gray County	3,940	18%	24,283	\$22,285	100	1%	1,671.45	3,840	95%	4,426
Grayson County	25,244	21%	127,196	\$24,614	2,575	4%	1,649.22	22,669	44%	57,842
Gregg County	8,785	7%	453,245	\$24,137	1,309	1%	1,219.83	7,476	45%	90,249
Grimes County	20,520	79%	32,964	\$20,858	7,070	90%	966.196	13,450	74%	23,204
Guadalupe County			212,855	\$26,696			1,959.50			57,761
Hale County	6,762	20%	34,015	\$18,061	2,541	9%	1,817.11	4,221	61%	6,971
Hall County	626	26%	2,709	\$18,314				626	26%	2,709
Hamilton County	7,215	94%	9,222	\$23,734	2,723	100%	1,196.41	4,492	90%	5,981
Hansford County	1,979	37%	5,893	\$23,631			2,192.11	1,979	96%	2,247
Hardeman County	2,563	93%	3,961	\$20,373				2,563	93%	3,961
Hardin County	15,024	27%	63,597	\$25,326	706	3%	1,115.64	14,318	50%	33,224
Harris County	421,540	9%	2,628,93	\$28,454	410,649	9%	3,638.19	10,891	20%	110,867
Harrison County	16,318	25%	71,273	\$23,452			1,003.64	16,318	45%	41,495
Hartley County	3,250	56%	3,96	\$23,563	192	8%	2,531.76	3,058	93%	2,258
Haskell County	182	4%	4,834	\$23,421			1,275.83	182	10%	2,098
Hays County	5,762	3%	272,568	\$27,080			2,002.32	5,762	10%	93,256
Hemphill County	3,535	100%	3,901	\$29,473	2,712	100%	1,818.09	823	100%	0,91
Henderson County	52,990	70%	86,645	\$21,857	15,691	52%	1,096.31	37,299	82%	53,74
Hidalgo County	101,788	12%	561,317	\$14,525	75,287	9%	2,311.32	26,501	58%	37,611
Hill County	7	0%	33,808	\$21,041			1,199.31	7	0%	25,794
Hockley County	4,560	22%	22,763	\$22,630	207	2%	2,078.92	4,353	59%	8,152
Hood County	1,125	2%	130,848	\$29,659			985.454	1,125	6%	47,011
Hopkins County	18,273	53%	45,211	\$21,674	311	2%	1,363.68	17,962	86%	27,504
Houston County	7,467	33%	18,186	\$17,830	175	3%	1,016.85	7,292	44%	13,549
Howard County	4,169	12%	37,666	\$21,080	325	1%	1,885.04	3,844	62%	6,964
Hudspeth County	2,210	73%	0,666	\$13,660				2,210	73%	0,666
Hunt County	39,393	47%	98,766	\$22,446	5,974	17%	1,382.41	33,419	70%	58,327
Hutchinson County	1,247	6%	22,763	\$24,231	116	1%	1,058.36	1,131	28%	4,62
Irion County	1,021	100%	0,971	\$30,444				1,021	100%	0,971
Jack County	6,633	85%	8,545	\$23,126	3,597	100%	1,645.05	3,036	73%	4,607
Jackson County	9,289	72%	15,655	\$23,368	3,481	70%	1,472.18	5,808	72%	9,716
Jasper County	33,539	99%	36,135	\$19,969	6,939	100%	781.267	26,600	99%	29,018
Jeff Davis County	2,097	100%	0,927	\$28,902				2,097	100%	0,927
Jefferson County	23,397	9%	281,073	\$23,563	11,918	5%	1,700.05	11,479	55%	27,937
Jim Hogg County	4,598	100%	4,047	\$19,746	3,802	100%	2,268.27	796	100%	0,702
Jim Wells County	1,908	5%	46,741	\$20,977			1,980.54	1,908	12%	19,069
Johnson County			221,122	\$24,787			1,487.09			91,331
Jones County	17,973	98%	19,659	\$15,309	2,450	100%	1,335.05	15,523	98%	17,054
Karnes County	3	0%	18,011	\$22,966			1,448.52	3	0%	6,712
Kaufman County	14,320	12%	148,614	\$24,959	1,512	2%	1,725.34	12,808	23%	73,326
Kendall County	11,289	30%	57,127	\$36,169	4,611	29%	1,577.62	6,678	31%	33,453
Kenedy County	323	100%	0,222	\$13,959				323	100%	0,222

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Kent County	557	100%	0.617	\$25,222	.	.	.	557	100%	0.617
Kerr County	13,872	27%	46.591	\$26,108	3,704	12%	1,682.59	10,168	48%	19.461
Kimble County	3,528	92%	3.058	\$27,544	1,938	90%	907.336	1,590	95%	1.337
King County	187	92%	0.223	\$30,871	.	.	.	187	92%	0.223
Kinney County	3,113	100%	2.289	\$15,689	2,453	100%	893.074	660	100%	0.486
Kleberg County	109	0%	36.055	\$19,230	.	.	2,651.70	109	2%	7
Knox County	32	1%	2.953	\$19,470	.	.	.	32	1%	2.953
Lamar County	15,122	32%	52.465	\$21,523	434	2%	1,583.31	14,688	64%	25.708
Lamb County	5,208	47%	10.815	\$19,555	2	0%	2,004.05	5,206	87%	5.889
Lampasas County	15,611	80%	27.472	\$24,134	5,224	87%	1,825.80	10,387	76%	19.182
La Salle County	1,706	29%	3.986	\$17,184	.	.	1,770.43	1,706	68%	1.691
Lavaca County	2,610	15%	17.927	\$25,196	.	.	1,770.40	2,610	19%	14.573
Lee County	8,548	55%	24.659	\$24,604	1,287	28%	1,583.22	7,261	66%	17.457
Leon County	6,498	40%	15.207	\$25,946	.	.	.	6,498	40%	15.207
Liberty County	55,072	74%	64.103	\$20,370	15,902	59%	1,189.28	39,170	83%	41.499
Limestone County	20,031	95%	23.176	\$20,550	10,104	100%	1,575.59	9,927	91%	12.101
Lipscomb County	1,115	39%	3.086	\$29,596	.	.	.	1,115	39%	3.086
Live Oak County	48	0%	9.871	\$21,357	.	.	.	48	0%	9.871
Llano County	18,186	100%	19.47	\$34,348	10,317	100%	818.968	7,869	100%	8.54
Loving County	44	100%	0.066	\$25,629	.	.	.	44	100%	0.066
Lubbock County	33,633	12%	320.732	\$24,454	15,497	6%	2,541.96	18,136	59%	38.625
Lynn County	1,748	40%	4.919	\$22,767	408	19%	1,458.40	1,340	58%	2.576
McCulloch County	6,538	93%	6.592	\$21,654	4,075	90%	1,578.72	2,463	98%	2.356
McLennan County	2,056	1%	230.557	\$21,852	.	.	1,959.55	2,056	4%	58.689
McMullen County	25	5%	0.424	\$36,277	.	.	.	25	5%	0.424
Madison County	11,806	86%	29.575	\$15,222	4,484	100%	1,130.89	7,322	79%	20.126
Marion County	6,886	78%	23.215	\$22,610	.	.	.	6,886	78%	23.215
Martin County	1,392	32%	4.81	\$26,286	.	.	.	1,392	32%	4.81
Mason County	1,850	52%	3.805	\$27,512	.	.	.	1,850	52%	3.805
Matagorda County	24,506	73%	30.465	\$22,072	13,924	64%	1,925.82	10,582	91%	10.648
Maverick County	1,473	3%	45.463	\$14,516	.	.	2,652.60	1,473	28%	4.178
Medina County	31,630	67%	35.495	\$22,848	11,696	64%	1,397.71	19,934	69%	21.986
Menard County	1,695	100%	1.879	\$20,055	.	.	.	1,695	100%	1.879
Midland County	10,623	7%	165.524	\$34,885	3,207	2%	2,417.76	7,416	41%	21.269
Milam County	17,275	77%	21.926	\$21,465	6,535	67%	1,559.65	10,740	86%	12.365
Mills County	3,802	93%	5.454	\$22,615	.	.	.	3,802	93%	5.454
Mitchell County	7,365	93%	8.654	\$17,330	5,574	100%	2,112.43	1,791	77%	2.544
Montague County	13,453	74%	19.55	\$26,109	4,683	65%	1,187.33	8,770	80%	11.891
Montgomery County	83,908	16%	510.569	\$33,455	44,018	11%	1,685.15	39,890	34%	148.524
Moore County	4,263	19%	24.712	\$19,434	3,698	20%	2,880.73	565	17%	3.808
Morris County	4,211	36%	46.594	\$20,124	55	2%	796.25	4,156	44%	37.614
Motley County	807	99%	0.828	\$20,712	.	.	.	807	99%	0.828
Nacogdoches County	17,111	26%	69.334	\$20,299	1,378	4%	1,467.92	15,733	52%	32.561
Navarro County	35,372	78%	44.688	\$20,491	21,488	100%	1,702.18	13,884	59%	23.677
Newton County	8,632	67%	13.807	\$20,509	.	.	.	8,632	67%	13.807
Nolan County	2,968	22%	14.972	\$20,097	4	0%	1,965.87	2,964	74%	4.394
Nueces County	165	0%	418.88	\$24,875	.	.	2,787.43	165	1%	30.262
Ochiltree County	826	8%	11.307	\$23,989	.	.	2,147.55	826	68%	1.339
Oldham County	1,385	89%	1.041	\$23,377	.	.	.	1,385	89%	1.041
Orange County	14,340	18%	240.937	\$24,938	1,219	2%	1,001.98	13,121	45%	103.487
Palo Pinto County	2,888	11%	27.546	\$23,503	.	.	1,712.30	2,888	22%	13.779
Panola County	11,248	49%	28.671	\$25,326	6	0%	902.696	11,242	67%	21.025
Parker County	6	0%	143.172	\$30,934	.	.	1,196.96	6	0%	83.948
Parmer County	2,956	33%	10.057	\$20,169	378	9%	3,075.03	2,578	55%	5.331
Pecos County	6,016	41%	3.103	\$19,974	1,264	14%	1,474.99	4,752	79%	1.268
Polk County	41,060	97%	40.179	\$20,225	8,917	95%	801.063	32,143	97%	31.614
Potter County	14,017	12%	133.996	\$19,967	8,829	8%	2,144.31	5,188	49%	12.296
Presidio County	6,815	100%	1.768	\$16,176	4,314	100%	1,997.66	2,501	100%	0.649
Rains County	10,418	95%	47.57	\$22,933	718	100%	1,440.15	9,700	95%	44.537
Randall County	9,232	7%	139.239	\$30,376	2,173	2%	2,734.19	7,059	39%	20.898
Reagan County	3,099	96%	2.747	\$23,814	2,805	96%	2,757.25	294	100%	0.25
Real County	2,975	98%	4.322	\$19,806	.	.	.	2,975	98%	4.322

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Red River County	2,391	22%	10.318	\$19,128	12	1%	835.282	2,379	28%	8.085
Reeves County	1,194	10%	4.68	\$18,099	108	1%	1,634.18	1,086	60%	0.694
Refugio County	715	11%	8.208	\$24,090	.	.	1,727.70	715	19%	4.955
Roberts County	307	38%	0.883	\$35,797	.	.	.	307	38%	0.883
Robertson County	10,060	68%	17.164	\$21,216	3,578	100%	1,401.46	6,482	58%	13.014
Rockwall County	.	.	739.423	\$34,850	.	.	2,070.72	.	.	168.149
Runnels County	8,469	100%	8.058	\$20,081	5,342	100%	1,650.14	3,127	100%	2.985
Rusk County	30,526	57%	57.459	\$22,084	2,273	12%	1,692.40	28,253	81%	37.991
Sabine County	2,865	29%	19.994	\$18,626	.	.	.	2,865	29%	19.994
San Augustine County	6,327	81%	14.701	\$18,177	.	.	.	6,327	81%	14.701
San Jacinto County	22,354	85%	46.082	\$24,037	.	.	.	22,354	85%	46.082
San Patricio County	.	.	90.635	\$23,741	.	.	1,722.83	.	.	18.226
San Saba County	3,329	67%	4.409	\$19,595	1,097	44%	1,517.27	2,232	89%	2.225
Schleicher County	3,171	100%	2.419	\$23,074	.	.	.	3,171	100%	2.419
Scurry County	3,690	23%	17.691	\$23,967	533	5%	1,643.52	3,157	67%	5.268
Shackelford County	2,269	90%	2.749	\$25,602	.	.	.	2,269	90%	2.749
Shelby County	19,993	81%	30.838	\$21,084	4,183	85%	847.47	15,810	81%	24.83
Sherman County	2,248	91%	2.684	\$23,728	.	.	.	2,248	91%	2.684
Smith County	53,388	24%	242.946	\$24,924	13,186	9%	1,451.08	40,202	57%	86.15
Somervell County	64	1%	47.623	\$26,708	.	.	.	64	1%	47.623
Starr County	6,218	10%	52.003	\$11,935	1,128	2%	1,819.70	5,090	35%	12.25
Stephens County	7,914	87%	10.105	\$21,145	4,624	83%	1,481.92	3,290	94%	3.937
Sterling County	813	100%	0.88	\$19,762	.	.	.	813	100%	0.88
Stonewall County	196	19%	1.132	\$23,895	.	.	.	196	19%	1.132
Sutton County	3,663	95%	2.66	\$24,723	3,010	94%	1,654.69	653	99%	0.455
Swisher County	2,395	36%	7.447	\$18,046	464	10%	1,751.05	1,931	87%	2.486
Tarrant County	.	.	2,298.89	\$28,541	.	.	2,951.58	.	.	127.619
Taylor County	16,060	12%	142.411	\$23,472	4,555	4%	2,002.69	11,505	55%	24.132
Terrell County	788	100%	0.334	\$31,894	.	.	.	788	100%	0.334
Terry County	983	8%	13.108	\$22,211	24	0%	2,035.28	959	39%	2.794
Throckmorton County	520	40%	1.423	\$24,926	.	.	.	520	40%	1.423
Titus County	14,981	44%	84.316	\$19,178	765	5%	1,202.53	14,216	80%	45.158
Tom Green County	14,904	13%	72.603	\$24,443	5,035	5%	2,006.23	9,869	59%	11.426
Travis County	1,256	0%	1,169.06	\$33,943	.	.	3,021.87	1,256	2%	100.201
Trinity County	3,521	26%	19.732	\$19,874	561	18%	725.826	2,960	28%	15.416
Tyler County	19,701	93%	22.866	\$20,675	4,709	100%	926.246	14,992	91%	17.871
Upshur County	33,781	87%	66.315	\$22,917	5,807	75%	1,045.84	27,974	90%	53.774
Upton County	2,486	100%	2.003	\$23,383	.	.	.	2,486	100%	2.003
Uvalde County	4,488	18%	16.224	\$17,654	.	.	1,666.54	4,488	58%	5.048
Val Verde County	940	2%	15.622	\$19,024	.	.	2,291.95	940	20%	1.486
Van Zandt County	48,430	94%	61.19	\$22,707	9,647	78%	983.662	38,783	99%	47.141
Victoria County	602	1%	98.688	\$25,216	.	.	2,213.81	602	3%	26.732
Walker County	33,310	49%	87.531	\$16,571	9,683	26%	2,236.69	23,627	77%	40.058
Waller County	42,185	96%	85.655	\$22,645	15,274	94%	1,392.12	26,911	97%	55.354
Ward County	8,904	90%	11.886	\$23,887	6,634	89%	1,198.39	2,270	93%	2.955
Washington County	29,103	87%	55.471	\$23,727	11,836	76%	1,883.88	17,267	97%	29.949
Webb County	5,289	2%	82.808	\$14,852	1,982	1%	3,885.54	3,307	70%	1.435
Wharton County	31,417	82%	35.325	\$20,782	14,028	73%	1,729.72	17,389	91%	17.752
Wheeler County	2,704	67%	4.444	\$27,816	.	.	.	2,704	67%	4.444
Wichita County	11,271	9%	203.15	\$23,006	2,722	2%	1,917.47	8,549	63%	23.691
Wilbarger County	10,474	89%	12.17	\$20,370	8,498	90%	1,712.41	1,976	84%	2.432
Willacy County	3,364	15%	37.683	\$11,693	.	.	2,465.60	3,364	44%	13.124
Williamson County	30,299	6%	446.147	\$31,709	3,955	1%	3,046.85	26,344	46%	58.792
Wilson County	12	0%	58.473	\$28,411	.	.	1,717.67	12	0%	50.706
Winkler County	5,599	86%	7.762	\$22,885	4,751	87%	1,695.00	848	80%	1.263
Wise County	17,254	29%	66.474	\$27,087	5,891	35%	1,218.45	11,363	26%	48.348
Wood County	28,840	68%	65.443	\$23,658	1,433	14%	877.041	27,407	86%	50.138
Yoakum County	2,205	29%	9.46	\$23,103	11	0%	1,886.83	2,194	82%	3.365
Young County	6,206	35%	19.191	\$25,859	2,835	24%	1,779.70	3,371	58%	6.371
Zapata County	1,084	7%	14.789	\$16,026	.	.	2,236.38	1,084	35%	3.132
Zavala County	2,949	27%	8.568	\$13,595	.	.	2,166.33	2,949	72%	3.175
U.S. Virgin Islands	103,964	100%	774.333	.	42,522	100%	679.621	61,442	100%	857.027

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
St. Croix	36,607	100%	439.702		18,167	100%	516.082	18,440	100%	383.756
St. John	17,167	100%	872.064		2,649	100%	860.516	14,518	100%	874.209
St. Thomas	50,190	100%	1,603.34		21,706	100%	893.736	28,484	100%	4,062.99
Utah	180,004	6%	36.306		77,530	3%	2,973.07	102,474	39%	3,246
Beaver County	2,434	40%	2.321	\$20,405	1,890	70%	1,307.11	544	16%	1.28
Box Elder County	8,531	17%	8.95	\$22,150	502	1%	1,807.02	8,029	53%	2,669
Cache County	9,693	8%	102.757	\$20,195	3,772	4%	2,323.27	5,921	34%	15.731
Carbon County	1,106	5%	14.216	\$20,691			1,481.76	1,106	16%	4.716
Daggett County	898	100%	1.288	\$24,369				898	100%	1.288
Davis County	10,603	3%	1,122.93	\$26,309	9,887	3%	2,999.72	716	24%	16.196
Duchesne County	13,891	71%	6.009	\$24,162	2,287	36%	2,068.09	11,604	89%	4.043
Emery County	383	4%	2.356	\$20,274			1,081.08	383	5%	1.721
Garfield County	88	2%	0.951	\$20,975				88	2%	0.951
Grand County	614	7%	2.436	\$23,894	8	0%	1,579.75	606	28%	0.596
Iron County	723	1%	15.615	\$17,946	354	1%	2,218.36	369	4%	3.144
Juab County	4,107	37%	3.285	\$18,503	698	11%	1,630.26	3,409	70%	1.43
Kane County	799	11%	1.784	\$24,152			1,369.97	799	21%	0.958
Millard County	4,882	44%	1.702	\$20,310	128	4%	1,581.20	4,754	58%	1.241
Morgan County	8,880	84%	17.347	\$28,193	3,897	100%	1,620.97	4,983	75%	10.994
Piute County			1.927	\$16,780						1.927
Rich County	1,230	55%	2.179	\$23,018				1,230	55%	2.179
Salt Lake County	18,983	2%	1,448.50	\$26,747	16,527	2%	3,849.04	2,456	25%	21.066
San Juan County	14,036	97%	1.848	\$15,531	3,339	100%	1,999.30	10,697	96%	1.422
Sanpete County	6,773	24%	17.891	\$17,519	254	1%	2,101.90	6,519	58%	7.106
Sevier County	9,065	44%	10.851	\$19,121	3,948	53%	2,830.81	5,117	39%	6.951
Summit County	4,515	12%	19.621	\$45,461	2,759	12%	1,275.65	1,756	13%	7.355
Tooele County	4,945	8%	9.287	\$22,423	1,175	2%	2,532.71	3,770	34%	1.584
Uintah County	19,372	54%	7.988	\$24,572	8,760	45%	1,137.36	10,612	65%	3.657
Utah County	9,354	2%	301.12	\$20,973	2,548	0%	3,259.15	6,806	36%	10.401
Wasatch County	5,375	21%	22.008	\$26,145	2,143	11%	1,504.13	3,232	49%	5.636
Washington County	3,214	2%	65.561	\$21,771	2,808	2%	2,413.19	406	2%	9.986
Wayne County	249	10%	0.985	\$19,950				249	10%	0.985
Weber County	15,261	6%	422.114	\$23,430	9,846	4%	2,410.32	5,415	41%	27.768
Vermont	106,615	17%	68.492		5,223	2%	1,609.90	101,392	27%	41.93
Addison County	8,461	23%	48.426	\$29,295	36	0%	1,413.10	8,425	29%	37.884
Bennington County	3,986	11%	55.045	\$29,647	309	2%	1,661.96	3,677	15%	35.731
Caledonia County	6,872	22%	47.962	\$23,568			1,508.04	6,872	30%	35.494
Chittenden County	3,893	2%	305.316	\$33,881	2,506	2%	1,743.15	1,387	3%	89.827
Essex County	4,173	69%	9.052	\$20,904				4,173	69%	9.052
Franklin County	11,417	23%	77.176	\$27,879	250	2%	1,899.37	11,167	32%	56.135
Grand Isle County	2,443	35%	85.832	\$34,925				2,443	35%	85.832
Lamoille County	7,738	31%	54.351	\$26,508				7,738	31%	54.351
Orange County	14,098	50%	41.03	\$27,623			691.65	14,098	51%	39.948
Orleans County	8,417	31%	38.907	\$23,164	13	0%	1,450.59	8,404	37%	33.253
Rutland County	4,213	7%	66.351	\$26,384	279	1%	1,563.23	3,934	11%	40.709
Washington County	5,757	10%	86.938	\$30,210	1,084	4%	1,336.92	4,673	15%	46.799
Windham County	15,717	36%	55.683	\$27,895	124	1%	1,983.38	15,593	53%	37.987
Windsor County	9,430	17%	56.588	\$31,740	622	5%	1,198.39	8,808	21%	42.897
Virginia	925,477	11%	212.075		186,349	3%	2,403.69	739,128	38%	53.458
Accomack County	26,946	91%	66.025	\$23,206				26,946	91%	66.025
Albemarle County	27,853	27%	142.569	\$37,510	7,627	13%	2,110.00	20,226	46%	63.612
Alleghany County	4,668	31%	33.435	\$24,399			1,139.53	4,668	61%	17.357
Amelia County	8,695	66%	37.245	\$25,545				8,695	66%	37.245
Amherst County	10,454	32%	69.256	\$22,938	776	6%	807.407	9,678	47%	45.186
Appomattox County	6,948	45%	45.8	\$23,098				6,948	45%	45.8
Arlington County	3,502	2%	8,783.97	\$62,854	3,502	2%	8,783.97			
Augusta County	16,764	22%	79.129	\$26,398	347	1%	1,051.83	16,417	33%	53.175
Bath County	2,441	60%	7.725	\$32,259				2,441	60%	7.725
Bedford County	26,839	37%	95.972	\$28,548	351	2%	766.688	26,488	47%	76.261
Bland County			18.456	\$19,042						18.456
Botetourt County	8,805	26%	62.365	\$32,266	123	1%	878.292	8,682	41%	40.381
Brunswick County	11,448	76%	26.531	\$17,920	1,854	46%	1,395.38	9,594	87%	19.567

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Buchanan County	1,360	6%	43.935	\$18,357	.	.	.	1,360	6%	43.935
Buckingham County	16,659	100%	28.827	\$17,345	.	.	.	16,659	100%	28.827
Campbell County	11,886	21%	112.2	\$23,801	86	0%	1,156.11	11,800	35%	69.98
Caroline County	11,565	36%	60.141	\$26,403	189	3%	1,536.23	11,376	47%	46.712
Carroll County	10,288	35%	62.525	\$19,761	7	1%	866.725	10,281	36%	60.768
Charles City County	6,959	100%	38.065	\$26,053	.	.	.	6,959	100%	38.065
Charlotte County	7,816	70%	23.515	\$18,767	.	.	.	7,816	70%	23.515
Chesterfield County	8,453	2%	820.058	\$32,942	7,389	2%	1,642.67	1,064	5%	90.531
Clarke County	4,834	34%	80.51	\$38,590	138	3%	2,426.26	4,696	50%	53.948
Craig County	2,575	53%	14.775	\$22,435	.	.	.	2,575	53%	14.775
Culpeper County	191	0%	138.342	\$28,076	.	.	2,742.75	191	1%	85.258
Cumberland County	8,529	84%	34.109	\$22,922	.	.	1,889.27	8,529	88%	32.741
Dickenson County	7,648	48%	48.646	\$17,954	.	.	.	7,648	48%	48.646
Dinwiddie County	12,662	45%	56.113	\$23,766	723	8%	1,095.53	11,939	61%	39.545
Essex County	1,697	15%	44.788	\$21,595	.	.	999.429	1,697	19%	34.53
Fairfax County	21,555	2%	2,921.71	\$51,137	21,494	2%	3,592.48	61	0%	191.543
Fauquier County	12,558	19%	103.166	\$41,394	210	1%	1,372.17	12,348	33%	59.4
Floyd County	15,039	97%	40.802	\$22,805	.	.	.	15,039	97%	40.802
Fluvanna County	7,149	27%	93.362	\$30,300	107	1%	1,845.05	7,042	43%	58.072
Franklin County	14,699	25%	85.116	\$24,789	27	0%	862.011	14,672	28%	76.825
Frederick County	18,361	21%	207.332	\$30,764	2,453	5%	1,755.55	15,908	43%	95.091
Giles County	5,629	33%	48.156	\$24,485	376	7%	1,083.13	5,253	46%	32.435
Gloucester County	2,186	6%	174.995	\$29,396	285	2%	1,260.53	1,901	8%	118.289
Goochland County	8,348	35%	85.504	\$46,306	6	1%	854.267	8,342	36%	83.088
Grayson County	4,096	29%	32.431	\$18,760	12	67%	233.62	4,084	29%	32.396
Greene County	4,188	22%	124.131	\$28,727	96	1%	983.844	4,092	43%	65.451
Greensville County	8,903	76%	39.556	\$14,992	528	37%	865.854	8,375	82%	34.95
Halifax County	16,717	50%	40.722	\$19,777	517	7%	1,150.74	16,200	64%	31.364
Hanover County	20,488	20%	221.776	\$34,241	1,008	2%	1,448.30	19,480	49%	93.29
Henrico County	3,078	1%	1,425.51	\$33,576	2,644	1%	2,418.43	434	3%	133.794
Henry County	2,257	4%	136.043	\$19,538	351	2%	659.647	1,906	6%	88.972
Highland County	2,036	100%	4.904	\$26,949	.	.	.	2,036	100%	4.904
Isle of Wight County	1,927	5%	121.494	\$31,247	.	.	1,159.45	1,927	9%	69.851
James City County	2,958	4%	537.601	\$39,960	2,368	4%	1,504.75	590	5%	118.418
King and Queen County	5,371	82%	20.734	\$25,406	.	.	.	5,371	82%	20.734
King George County	2,168	8%	153.777	\$34,995	78	1%	813.395	2,090	10%	118.579
King William County	13,593	80%	62.046	\$28,981	76	3%	1,488.44	13,517	95%	52.311
Lancaster County	4,008	38%	78.349	\$30,836	.	.	.	4,008	38%	78.349
Lee County	12,068	47%	58.618	\$16,769	.	.	758.213	12,068	47%	58.408
Loudoun County	22,937	6%	719.236	\$46,962	9,463	3%	3,116.65	13,474	31%	105.972
Louisa County	22,736	62%	73.758	\$27,481	.	.	.	22,736	62%	73.758
Lunenburg County	8,222	73%	25.977	\$18,595	.	.	.	8,222	73%	25.977
Madison County	135	1%	41.284	\$26,096	.	.	.	135	1%	41.284
Mathews County	752	9%	96.475	\$33,487	.	.	.	752	9%	96.475
Mecklenburg County	17,220	57%	48.275	\$20,798	245	4%	1,053.07	16,975	73%	37.743
Middlesex County	1,860	18%	80.326	\$30,489	.	.	.	1,860	18%	80.326
Montgomery County	16,782	17%	254.867	\$23,727	11,269	15%	1,786.16	5,513	23%	68.531
Nelson County	12,935	90%	30.555	\$27,958	.	.	.	12,935	90%	30.555
New Kent County	4,478	21%	99.714	\$33,839	.	.	.	4,478	21%	99.714
Northampton County	10,327	92%	53.144	\$23,412	.	.	.	10,327	92%	53.144
Northumberland County	3,488	31%	59.176	\$29,602	.	.	.	3,488	31%	59.176
Nottoway County	8,130	55%	47.177	\$19,208	1,656	24%	1,579.09	6,474	83%	25.147
Orange County	7,482	20%	110.463	\$28,856	63	0%	1,557.25	7,419	35%	65.003
Page County	4,639	19%	77.081	\$22,083	101	2%	1,213.75	4,538	24%	62.696
Patrick County	15,850	91%	35.976	\$18,916	.	.	.	15,850	91%	35.976
Pittsylvania County	24,280	40%	63.245	\$21,615	248	3%	582.968	24,032	46%	54.609
Powhatan County	6,808	22%	117.881	\$31,918	.	.	777.571	6,808	22%	117.558
Prince Edward County	10,398	43%	69.354	\$17,779	4	0%	1,379.06	10,394	69%	43.896
Prince George County	6,653	19%	130.218	\$24,521	2,050	12%	1,185.97	4,603	26%	69.582
Prince William County	7,607	2%	1,327.34	\$37,440	6,372	1%	2,544.13	1,235	7%	100.107
Pulaski County	5,764	17%	108.161	\$24,722	1,009	5%	1,285.88	4,755	29%	53.038
Rappahannock County	1,442	21%	25.613	\$37,211	.	.	.	1,442	21%	25.613

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Richmond County			47,777	\$19,956						47,777
Roanoke County	3,470	4%	384,611	\$31,864	1,665	2%	1,531.85	1,805	10%	88,617
Rockbridge County	10,731	48%	37,257	\$26,391	189	9%	586,949	10,542	52%	34,049
Rockingham County	13,694	17%	93,759	\$27,696	1,160	3%	1,383.25	12,534	27%	56,234
Russell County	11,597	41%	60,295	\$20,117			1,116.29	11,597	46%	53,481
Scott County	5,490	25%	41,824	\$21,376	409	10%	853,079	5,081	28%	34.7
Shenandoah County	44,254	98%	88,721	\$24,967	14,605	94%	1,725.82	29,649	100%	59,378
Smyth County	3,592	12%	69,033	\$22,010	457	6%	1,296.88	3,135	13%	52.62
Southampton County	8,872	48%	30,892	\$23,414			840,547	8,872	49%	30,252
Spotsylvania County	2,653	2%	322,175	\$31,842	695	1%	1,910.33	1,958	5%	110,605
Stafford County	783	1%	510,865	\$37,237	268	0%	1,890.25	515	2%	122,644
Surry County	6,344	96%	23,793	\$24,469				6,344	96%	23,793
Sussex County	7,211	65%	22,733	\$14,316				7,211	65%	22,733
Tazewell County	4,544	10%	85,717	\$21,558	413	2%	889,553	4,131	18%	46,592
Warren County	4,360	11%	187,454	\$29,160	495	2%	1,152.63	3,865	19%	102,685
Washington County	4,946	9%	100,409	\$25,807	307	2%	849,772	4,639	12%	73.4
Westmoreland County	250	1%	74,306	\$25,591	46	1%	2,062.00	204	2%	58,835
Wise County	5,738	14%	101,605	\$19,970	427	2%	1,142.64	5,311	23%	59,36
Wythe County	7,590	26%	63,804	\$23,237	51	1%	999.95	7,539	34%	49,182
York County	1,337	2%	638,976	\$36,004	1,153	2%	1,606.41	184	5%	62,243
Alexandria city	3,195	2%	10,225.67	\$54,597	3,195	2%	10,225.67			
Bedford city			908,682				1,049.52			117,396
Bristol city			1,359.10	\$20,574			1,394.27			21,007
Buena Vista city	228	4%	872,666	\$17,460	214	4%	1,695.69	14	6%	69,558
Charlottesville city	1,262	3%	4,644.08	\$28,285	1,262	3%	4,644.08			
Chesapeake city	3,577	2%	680,513	\$29,735	2,795	1%	2,426.02	782	5%	67.77
Colonial Heights city	446	3%	2,306.44	\$28,282	446	3%	2,310.64			0
Covington city	3	0%	981,257	\$21,243	3	0%	981,332			0
Danville city	600	1%	961,125	\$20,569	557	1%	1,444.82	43	2%	121,984
Emporia city	185	3%	854,969	\$18,909	154	3%	1,338.91	31	9%	129,097
Fairfax city	756	3%	3,877.90	\$44,747	756	3%	3,877.90			
Falls Church city	1,092	8%	6,742.62	\$59,861	1,092	8%	6,742.62			
Franklin city			1,119.09	\$19,754			1,553.46			116,881
Fredericksburg city	883	3%	2,518.83	\$28,453	883	3%	2,894.83			231,991
Galax city	107	1%	877,471	\$20,081	97	2%	1,272.16	10	1%	298,041
Hampton city	3,197	2%	2,708.58	\$25,131	3,197	2%	2,849.30			130,038
Harrisonburg city	5,731	11%	2,970.71	\$17,919	5,731	11%	2,970.71			
Hopewell city	199	1%	2,138.01	\$21,041	199	1%	2,420.81			0
Lexington city	186	3%	2,816.69	\$15,627	186	3%	2,816.69			
Lynchburg city	8,114	10%	1,677.35	\$21,236	8,017	10%	2,083.09	97	4%	206,462
Manassas city	646	2%	3,840.42	\$28,646	646	2%	3,959.98			0
Manassas Park city	148	1%	6,144.64	\$28,054	148	1%	6,144.64			
Martinsville city	403	3%	1,220.58	\$19,663	403	3%	1,220.58			
Newport News city	3,561	2%	2,643.07	\$25,408	3,561	2%	3,280.30			3,667
Norfolk city	10,973	5%	4,413.62	\$24,252	10,973	5%	4,413.62			
Norton city	73	2%	509.3	\$22,715	41	1%	854,934	32	36%	28,448
Petersburg city	1,199	4%	1,413.06	\$18,535	1,165	4%	1,870.08	34	5%	117,244
Poquoson city	106	1%	822.44	\$38,295	106	1%	1,560.22			102,791
Portsmouth city	1,259	1%	2,824.00	\$23,219	1,259	1%	2,824.00			
Radford city	30	0%	1,648.48	\$15,509	22	0%	2,030.07	8	2%	221,354
Richmond city	9,096	4%	3,534.28	\$27,860	9,096	4%	3,534.28			
Roanoke city	1,261	1%	2,310.04	\$23,565	1,257	1%	2,313.77	4	57%	97,667
Salem city	1,319	5%	1,769.95	\$27,559	1,319	5%	1,769.95			
Staunton city	640	3%	1,226.72	\$25,255	617	3%	1,798.82	23	3%	128,615
Suffolk city	2,332	3%	228,312	\$30,021	98	0%	1,614.53	2,234	13%	48,449
Virginia Beach city	10,159	2%	1,778.77	\$32,477	10,050	2%	3,231.39	109	2%	57,687
Waynesboro city	748	3%	1,427.36	\$21,515	719	3%	1,858.55	29	5%	151,375
Williamsburg city	4,650	31%	1,688.20	\$23,686	4,650	31%	1,688.20			
Winchester city	867	3%	2,898.17	\$26,624	867	3%	2,898.17			
Washington	200,320	3%	106,492		48,339	1%	2,520.69	151,981	14%	17,026
Adams County			9,819	\$17,398			1,574.46			3.41
Asotin County	1,098	5%	34,908	\$24,836	230	1%	1,729.12	868	61%	2,294

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Benton County			109,596	\$29,060			2,132.92			11,388
Chelan County	3,228	4%	26,001	\$25,619	215	0%	2,088.02	3,013	15%	6,834
Clallam County	17,998	24%	43,696	\$26,325	5,707	12%	1,144.55	12,291	45%	16,143
Clark County	20,179	4%	725,711	\$28,206	2,252	1%	3,076.06	17,927	29%	122,772
Columbia County			4,029	\$23,558			1,653.68			1,296
Cowlitz County	4,170	4%	94,317	\$24,042	758	1%	1,861.46	3,412	11%	27,833
Douglas County	649	2%	22,573	\$23,116			1,938.93	649	6%	5,759
Ferry County			2,814	\$20,646						2,814
Franklin County			77,588	\$19,982			2,567.87			9,672
Garfield County	1,436	100%	2,021	\$24,767				1,436	100%	2,021
Grant County			35,852	\$19,844			1,808.77			13,098
Grays Harbor County	7,908	11%	37,583	\$22,190	668	2%	1,612.65	7,240	25%	15,341
Island County			394.96	\$31,563			1,123.99			229,417
Jefferson County	6,450	22%	16,384	\$28,607	251	2%	1,436.82	6,199	36%	9,556
King County			961,824	\$40,656			3,737.61			40,174
Kitsap County	10,694	4%	644,278	\$31,901	7,746	4%	1,405.08	2,948	7%	177,496
Kittitas County			18,277	\$23,754			2,169.06			7,113
Klickitat County	12,552	63%	10,714	\$22,716	3,181	39%	1,229.96	9,371	78%	6,403
Lewis County	21,262	28%	31,864	\$22,094	2,094	7%	1,488.04	19,168	42%	19,274
Lincoln County			3,689	\$25,512						3,689
Mason County	7,984	12%	67.5	\$23,965	576	2%	1,103.74	7,408	18%	44,072
Okanogan County	13,670	34%	7,533	\$21,483	2	0%	1,694.14	13,668	43%	6,016
Pacific County	4,678	23%	21,867	\$23,224	698	10%	929.212	3,980	30%	14,328
Pend Oreille County	10,732	86%	8,876	\$21,758	1,967	92%	1,987.06	8,765	85%	7,357
Pierce County			497,26	\$28,571			2,234.15			40,999
San Juan County			96,864	\$38,556						96,864
Skagit County	32	0%	71,975	\$27,598	24	0%	1,961.79	8	0%	20,877
Skamania County	6,679	59%	6,859	\$28,705				6,679	59%	6,859
Snohomish County	13,929	2%	366,276	\$31,782	8,744	1%	2,839.30	5,185	7%	42,855
Spokane County			278,763	\$26,125			2,476.22			42,488
Stevens County			17,061	\$22,035			1,024.81			13,404
Thurston County	15,428	6%	379,252	\$29,909	7,171	3%	1,758.73	8,257	14%	95,164
Wahkiakum County	3,999	99%	15,324	\$23,215				3,999	99%	15,324
Walla Walla County			46,198	\$23,656			2,100.54			7,686
Whatcom County	676	0%	101,912	\$26,671			2,160.17	676	1%	26,738
Whitman County	14,889	34%	20,077	\$21,086	6,055	18%	4,088.69	8,834	88%	4,676
Yakima County			59,586	\$19,861			2,368.65			13,326
West Virginia	554,124	30%	77,928		92,104	10%	1,429.74	462,020	48%	40,932
Barbour County	11,670	70%	49,071	\$17,909	1,343	50%	1,591.63	10,327	73%	41,429
Berkeley County	8,647	7%	373,124	\$26,516	2,751	3%	1,185.44	5,896	16%	150,849
Boone County	11,180	47%	47,631	\$22,400	1,707	38%	1,090.35	9,473	49%	39,057
Braxton County	7,643	54%	27,652	\$18,537				7,643	54%	27,652
Brooke County	6,019	26%	260,132	\$23,310	1,179	9%	1,265.42	4,840	49%	124,836
Cabell County	7,514	8%	350,551	\$23,595	2,783	4%	1,984.51	4,731	22%	88,568
Calhoun County	7,584	100%	27,159	\$18,181				7,584	100%	27,159
Clay County	8,186	91%	26,312	\$16,487				8,186	91%	26,312
Doddridge County	5,695	71%	24,962	\$18,552				5,695	71%	24,962
Fayette County	16,252	36%	68,613	\$18,928	3,542	19%	1,364.33	12,710	48%	41,001
Gilmer County	5,591	65%	25,217	\$17,175	2,088	58%	2,135.86	3,503	71%	14,737
Grant County	6,751	54%	25,95	\$19,696	1	0%	1,823.94	6,750	69%	20,669
Greenbrier County	15,452	44%	34,371	\$22,913	1,623	16%	1,166.58	13,829	56%	24,396
Hampshire County	19,636	78%	39,174	\$17,652				19,636	78%	39,174
Hancock County	1,496	5%	365.31	\$23,947	311	1%	1,321.46	1,185	13%	136,839
Hardy County	4,494	32%	24,051	\$20,977			1,462.84	4,494	40%	19,595
Harrison County	15,746	22%	169,86	\$24,021	3,033	7%	1,147.49	12,713	47%	71,171
Jackson County	19,028	65%	63,409	\$22,870	1,429	18%	1,397.70	17,599	83%	46,462
Jefferson County	2,897	5%	277,292	\$29,861	1,637	5%	1,299.79	1,260	5%	150,162
Kanawha County	29,027	15%	211,628	\$27,913	13,538	10%	1,623.00	15,489	32%	59,43
Lewis County	4,606	29%	41,918	\$20,587			1,770.16	4,606	41%	29,597
Lincoln County	9,422	43%	50,073	\$18,824				9,422	43%	50,073
Logan County	22,418	61%	81,272	\$20,644	5,906	56%	1,303.62	16,512	63%	59,203
McDowell County	3,061	16%	36,256	\$14,813			1,615.61	3,061	18%	31,497

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Marion County	8,305	15%	183.526	\$23,870	724	2%	1,272.94	7,581	32%	83.783
Marshall County	9,020	29%	103.352	\$24,419	2,586	17%	2,100.25	6,434	40%	53.39
Mason County	15,554	57%	63.436	\$19,969	3,302	36%	1,401.61	12,252	68%	42.715
Mercer County	10,489	17%	150.833	\$20,833	3,511	9%	1,167.37	6,978	27%	66.932
Mineral County	13,094	47%	85.047	\$19,055	1,580	17%	1,734.12	11,514	63%	57.082
Mingo County	19,870	74%	63.142	\$20,222	390	15%	1,848.70	19,480	81%	57.219
Monongalia County	11,419	11%	281.874	\$26,109	5,047	7%	2,002.49	6,372	24%	81.871
Monroe County	12,508	90%	29.299	\$20,041	788	51%	1,324.01	11,720	95%	26.12
Morgan County	7,715	42%	79.809	\$22,770	.	.	.	7,715	42%	79.809
Nicholas County	12,244	46%	41.164	\$22,674	.	.	1,135.64	12,244	53%	35.963
Ohio County	6,812	16%	411.793	\$26,370	3,112	10%	1,462.86	3,700	34%	130.958
Pendleton County	4,917	71%	9.883	\$21,486	.	.	.	4,917	71%	9.883
Pleasants County	3,592	51%	53.826	\$22,308	1,046	33%	1,816.57	2,546	66%	30.061
Pocahontas County	7,791	100%	8.286	\$21,120	.	.	.	7,791	100%	8.286
Preston County	13,103	38%	52.951	\$21,237	444	13%	1,467.36	12,659	41%	47.892
Putnam County	17,291	29%	171.658	\$28,493	6,287	16%	1,524.67	11,004	52%	65.712
Raleigh County	10,465	13%	134.124	\$22,384	5,010	10%	1,015.04	5,455	17%	56.82
Randolph County	17,692	61%	27.95	\$20,464	2,433	23%	1,758.43	15,259	83%	17.702
Ritchie County	8,579	87%	21.695	\$18,717	.	.	.	8,579	87%	21.695
Roane County	9,400	65%	29.847	\$18,124	124	4%	1,482.17	9,276	81%	23.908
Summers County	9,914	76%	36.032	\$19,181	1,563	44%	1,942.30	8,351	88%	26.33
Taylor County	8,805	52%	98.946	\$21,266	2,194	31%	1,540.31	6,611	66%	59.454
Tucker County	1,991	30%	15.616	\$21,014	.	.	.	1,991	30%	15.616
Tyler County	6,114	72%	33.212	\$20,900	.	.	3,023.23	6,114	79%	30.183
Upshur County	11,000	45%	68.786	\$19,537	1,254	15%	1,375.53	9,746	61%	45.599
Wayne County	11,181	27%	83.246	\$19,910	1,878	13%	906.727	9,303	33%	57.2
Webster County	2,885	34%	15.255	\$17,423	.	.	.	2,885	34%	15.255
Wetzel County	9,253	59%	43.49	\$20,996	1,291	18%	2,113.28	7,962	96%	23.269
Wirt County	3,856	73%	22.872	\$23,240	.	.	.	3,856	73%	22.872
Wood County	15,050	17%	238.437	\$24,528	4,663	7%	1,460.59	10,387	42%	75.63
Wvoming County	4,200	18%	46.379	\$18,729	6	0%	1,562.43	4,194	20%	41.387
Wisconsin	744,002	13%	107.292	.	33,517	1%	2,204.29	710,485	43%	31.923
Adams County	14,891	78%	29.701	\$22,639	.	.	.	14,891	78%	29.701
Ashland County	4,289	31%	13.431	\$21,159	.	.	1,359.03	4,289	53%	7.825
Barron County	12,841	29%	51.161	\$23,547	.	.	1,375.11	12,841	45%	33.825
Bayfield County	2,314	18%	8.936	\$25,919	.	.	.	2,314	18%	8.936
Brown County	17,779	7%	492.966	\$27,734	3,818	2%	2,074.48	13,961	37%	88.927
Buffalo County	11,972	94%	19.046	\$25,207	.	.	.	11,972	94%	19.046
Burnett County	10,433	75%	16.907	\$23,542	.	.	.	10,433	75%	16.907
Calumet County	1,902	4%	158.86	\$29,406	.	.	1,923.71	1,902	15%	42.875
Chippewa County	.	.	64.717	\$25,097	.	.	1,026.71	.	.	30.376
Clark County	19,824	59%	27.732	\$21,005	6	0%	2,334.02	19,818	65%	25.312
Columbia County	23,532	41%	74.687	\$28,655	2,430	11%	1,909.55	21,102	62%	45.519
Crawford County	6,888	44%	27.661	\$22,801	214	3%	1,514.67	6,674	69%	17.005
Dane County	19,675	4%	435.275	\$33,895	140	0%	2,787.90	19,535	32%	59.927
Dodge County	17,918	20%	101.792	\$24,864	.	.	2,528.26	17,918	42%	49.386
Door County	10,843	41%	55.42	\$30,216	.	.	1,538.46	10,843	59%	38.267
Douglas County	10,838	25%	32.701	\$24,821	.	.	1,847.72	10,838	67%	12.457
Dunn County	.	.	51.907	\$23,324	.	.	1,581.47	.	.	30.67
Eau Claire County	.	.	159.379	\$25,808	.	.	2,079.02	.	.	37.956
Florence County	1,645	45%	7.493	\$24,690	.	.	.	1,645	45%	7.493
Fond du Lac County	15,547	15%	144.177	\$27,158	18	0%	2,014.77	15,529	43%	52.204
Forest County	4,596	55%	8.266	\$20,890	.	.	.	4,596	55%	8.266
Grant County	28,155	56%	43.543	\$22,343	12,020	65%	2,386.35	16,135	51%	27.563
Green County	14,667	39%	64.763	\$27,575	23	0%	2,388.13	14,644	64%	39.459
Green Lake County	5,577	31%	51.735	\$25,486	.	.	2,085.58	5,577	42%	38.1
Iowa County	7,615	33%	30.207	\$27,052	.	.	1,615.39	7,615	42%	23.836
Iron County	2,139	46%	6.163	\$25,053	.	.	892.273	2,139	68%	4.186
Jackson County	10,910	55%	19.956	\$22,169	.	.	1,040.54	10,910	77%	14.375
Jefferson County	12,607	15%	155.826	\$26,349	30	0%	2,075.42	12,577	44%	53.958
Juneau County	20,427	78%	34.174	\$22,439	4,526	100%	1,776.64	15,901	73%	28.367
Kenosha County	2,607	1%	644.478	\$26,560	3	0%	2,293.44	2,604	14%	89.286

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Kewaunee County	11,867	60%	57.647	\$25,651	.	.	1,743.26	11,867	83%	42.03
La Crosse County	3,999	3%	263.437	\$26,719	29	0%	2,070.92	3,970	20%	48.571
Lafayette County	8,478	55%	24.284	\$24,370	.	.	.	8,478	55%	24.284
Langlade County	8,217	44%	21.593	\$23,081	.	.	1,906.04	8,217	76%	12.496
Lincoln County	9,856	36%	31.167	\$25,371	175	1%	1,258.65	9,681	66%	16.811
Manitowoc County	7,000	9%	136.957	\$26,085	684	1%	1,878.81	6,316	20%	54.94
Marathon County	32,918	24%	90.095	\$27,723	.	.	1,656.33	32,918	56%	39.532
Marinette County	16,945	43%	28.08	\$23,751	1,511	10%	1,521.28	15,434	65%	17.111
Marquette County	10,602	71%	32.873	\$23,914	.	.	.	10,602	71%	32.873
Menominee County	3,587	100%	10.058	\$15,201	.	.	.	3,587	100%	10.058
Milwaukee County	130	0%	4,024.93	\$24,622	.	.	4,324.15	130	7%	110.261
Monroe County	16,417	36%	50.665	\$23,406	.	.	1,867.82	16,417	63%	29.325
Oconto County	16,262	44%	36.867	\$26,230	84	1%	1,536.43	16,178	54%	30.082
Oneida County	10,524	31%	30.701	\$26,352	.	.	1,002.30	10,524	41%	23.004
Outagamie County	11,033	6%	290.021	\$28,441	.	.	2,120.28	11,033	24%	80.533
Ozaukee County	1,439	2%	379.587	\$42,537	164	0%	1,560.03	1,275	6%	116.074
Pepin County	.	.	31.067	\$24,945	.	.	.	.	.	31.067
Pierce County	.	.	74.233	\$28,559	.	.	2,159.30	.	.	39.723
Polk County	17,491	40%	48.164	\$26,356	.	.	1,061.39	17,491	47%	41.279
Portage County	8,897	13%	88.692	\$25,462	.	.	1,843.73	8,897	36%	32.226
Price County	8,533	72%	9.403	\$24,535	.	.	.	8,533	72%	9.403
Racine County	5,168	3%	608.395	\$27,732	.	.	2,396.49	5,168	21%	95.82
Richland County	7,969	47%	29.161	\$23,691	.	.	1,824.21	7,969	66%	20.816
Rock County	15,593	9%	230.365	\$24,715	27	0%	2,163.82	15,566	47%	50.333
Rusk County	7,372	57%	14.169	\$21,475	.	.	1,211.28	7,372	76%	10.7
St. Croix County	.	.	129.455	\$33,035	.	.	1,846.94	.	.	69.848
Sauk County	13,301	21%	77.706	\$25,709	54	0%	1,858.21	13,247	46%	35.849
Sawyer County	6,007	39%	12.193	\$24,423	.	.	956.819	6,007	47%	10.11
Shawano County	18,826	47%	44.966	\$23,843	444	4%	1,666.07	18,382	62%	33.307
Sheboygan County	40	0%	228.893	\$26,580	.	.	2,161.10	40	0%	68.754
Taylor County	12,303	61%	20.63	\$23,742	48	1%	1,561.77	12,255	76%	16.572
Trempealeau County	23,921	87%	37.654	\$25,490	2,175	69%	1,494.89	21,746	89%	33.45
Vernon County	29,185	98%	37.685	\$23,968	4,196	100%	1,879.53	24,989	97%	32.476
Vilas County	12,922	66%	22.984	\$26,016	.	.	.	12,922	66%	22.984
Walworth County	10,757	10%	189.686	\$27,321	627	1%	1,450.15	10,130	29%	69.681
Washburn County	7,385	50%	18.504	\$25,313	.	.	1,532.13	7,385	61%	15.291
Washington County	8,067	6%	326.578	\$33,173	.	.	1,634.03	8,067	19%	115.72
Waukesha County	350	0%	735.119	\$38,151	40	0%	1,365.54	310	1%	137.881
Waupaca County	16,512	32%	68.366	\$26,816	.	.	1,599.42	16,512	50%	44.577
Waushara County	12,045	52%	36.841	\$23,195	.	.	1,504.02	12,045	59%	32.533
Winnebago County	8,538	5%	398.564	\$27,295	5	0%	2,360.53	8,533	37%	61.58
Wood County	11,115	15%	92.527	\$26,302	26	0%	1,470.68	11,089	42%	34.875
Wyoming	137,922	23%	6.092	.	10,802	3%	2,001.63	127,120	63%	2.086
Albany County	920	3%	8.608	\$24,401	.	.	1,794.90	920	24%	0.912
Big Horn County	7,396	69%	3.404	\$24,960	.	.	.	7,396	69%	3.404
Campbell County	11,179	21%	11.114	\$34,342	247	1%	1,541.54	10,932	72%	3.16
Carbon County	4,312	29%	1.901	\$26,673	.	.	1,975.94	4,312	72%	0.756
Converse County	4,160	28%	3.488	\$30,380	948	14%	2,124.98	3,212	40%	1.881
Crook County	7,105	100%	2.489	\$31,183	.	.	.	7,105	100%	2.489
Fremont County	17,011	41%	4.55	\$24,431	160	1%	2,147.21	16,851	80%	2.288
Goshen County	7,225	60%	5.384	\$24,900	3,016	45%	1,966.14	4,209	81%	2.35
Hot Springs County	1,310	29%	2.264	\$27,548	.	.	1,349.39	1,310	92%	0.712
Johnson County	2,745	29%	2.29	\$28,062	.	.	2,076.28	2,745	60%	1.104
Laramie County	11,227	12%	35.328	\$29,375	.	.	1,170.21	11,227	60%	7.033
Lincoln County	8,999	46%	4.844	\$28,077	3,094	97%	2,146.99	5,905	36%	4.066
Natrona County	3,895	5%	15.122	\$30,265	254	0%	2,278.37	3,641	31%	2.189
Niobrara County	2,311	99%	0.89	\$25,867	.	.	.	2,311	99%	0.89
Park County	10,418	36%	4.158	\$28,870	85	1%	1,874.61	10,333	84%	1.782
Platte County	6,957	98%	3.389	\$25,302	2,984	100%	1,121.64	3,973	97%	1.959
Sheridan County	4,578	15%	11.964	\$29,656	14	0%	1,502.75	4,564	43%	4.198
Sublette County	11,963	100%	2.448	\$33,532	.	.	.	11,963	100%	2.448
Sweetwater County	191	0%	4.679	\$30,500	.	.	2,359.55	191	4%	0.45

Appendix E
Americans Without Access to Fixed Advanced Telecommunications Capability by County

	All Areas				Urban Areas			Rural Areas		
	Pop. Without Access	% of Total Pop.	Pop. Density	Per Capita Income (\$2014)	Pop. Without Access	% of Urban Pop.	Pop. Density	Pop. Without Access	% of Rural Pop.	Pop. Density
Teton County	1,874	8%	5.811	\$43,628	.	.	3,147.73	1,874	18%	2.602
Uinta County	7,772	34%	10.974	\$25,778	.	.	1,844.47	7,772	78%	4.781
Washakie County	2,011	23%	3.862	\$26,922	.	.	2,578.91	2,011	69%	1.307
Weston County	2,363	36%	2.753	\$29,091	.	.	1,511.60	2,363	75%	1.318