

Technical Appendix: Estimating End-User Telecommunication Revenue by State in 2016

The methodology described below is used in estimating contributions in Table 1.9 of the 2018 *Monitoring Report*. Providers do not report end-user telecommunication revenue information on a state-by-state basis. Therefore, it is necessary to estimate revenues per state in order to derive contributions made per state.

The nationwide sum of contributions to support universal service is equal to the payments made from USAC to recipients of funds from the universal service mechanisms plus administration costs. Contributions on a per-state basis are computed by multiplying nationwide contributions by the ratio of interstate end-user revenues in each state to nationwide interstate end-user revenues. Estimates of interstate end-user revenues by state are reported in Table 1. These estimates of end-user interstate revenues are used as a basis for estimating contributions in Table 1.9 of the *Monitoring Report*.¹

The remainder of this appendix provides a detailed description on how we allocate revenues to the states. First we divide end-user telecommunications revenues on a nationwide basis, into the following provider type categories: incumbent local exchange carriers (ILECs), competitive local exchange carriers (CLECs) and interconnected VoIP providers, payphone providers, wireless carriers, and toll carriers. We derive these data from information filed on Form 499-A Telecommunications Reporting Worksheets. On Form 499-A, filers indicate their principal business type, which we use to place filers into provider type categories. Table 2 presents end-user intrastate and interstate/international telecommunication revenues for each of these provider type categories at the nationwide level.

As set forth below, once the revenues are divided into categories, we use data from several sources to estimate each state's end-user telecommunications revenues. Data from FCC Form 477 are used to estimate the following on a state-by-state basis: intrastate ILEC revenues, CLEC and interconnected VoIP revenues, intrastate toll carrier revenues and wireless revenues. Data from tariff access filings with the FCC along with Form 477 data are used to estimate on a state-by-state basis interstate ILEC revenues. Interstate toll carrier revenues are estimated using data from the National Exchange Carrier Association (NECA) minutes of use data.

Table 3 shows intrastate end-user telecommunications revenues by category for ILECs, CLECs and interconnected VoIP providers, payphone providers, wireless carriers, and toll carriers. Similarly, components of interstate end-user telecommunications revenues are presented in Table 4.

Table 5 provides most of the underlying data that we use to allocate nationwide revenues to the individual states. We also report each state's percentage of the nationwide total. The data on ILEC end-user switched access lines, non-ILEC end-user switched access lines and interconnected VoIP subscriptions and mobile wireless subscribers are taken from data reported in FCC Form 477.² Data on the number of

-
- 1 Each state's share of interstate end-user revenues and contributions are reported under the heading "estimated contributions percent of total."
 - 2 *Voice Telephone Service: Status as of June 30, 2017*, at <https://www.fcc.gov/wireline-competition/voice-telephone-services-report>.

payphones by state that are independently owned are taken from the National Payphone Clearinghouse³, and data on interstate access minutes are taken from the supplemental material of the report. For each metric, we report each state's percentage of the nationwide total. We then use these percentages to allocate nationwide revenue data in Table 2 to individual states in Tables 3 and 4.

In Table 3 we allocate intrastate ILEC end-user revenues on a state-by-state basis by multiplying nationwide intrastate ILEC revenues (see Table 2) and ILEC end-user switched access lines in a state (see Table 5). Similarly, intrastate CLEC and interconnected VoIP providers' revenues are allocated on a state-by-state basis by multiplying nationwide intrastate CLEC and VoIP provider revenues by the percentage of CLEC end-user switched access lines and interconnected VoIP subscribers in a state. Intrastate payphone provider revenues are allocated on a state-by-state basis by multiplying nationwide intrastate payphone revenues by the percentage of independent payphones in a state. We allocate intrastate wireless revenues on a state-by-state basis by multiplying nationwide intrastate wireless revenues by the percentage of mobile wireless subscriptions in a state. Intrastate toll carriers' revenues are allocated on a state-by-state basis by multiplying nationwide intrastate ILEC revenues and ILEC end-user switched access lines and interconnected VoIP by subscriptions in a state.

In Table 4, we allocate end-user interstate revenues to CLEC and interconnected VoIP providers, payphone provider and wireless carriers analogously to how we allocated their respective intrastate revenues. That is, we allocate interstate CLEC and interconnected VoIP providers' revenues on a state-by-state basis by multiplying nationwide interstate CLEC and VoIP provider revenues by the percentage of CLEC end-user switched access lines and interconnected VoIP subscribers in a state. Interstate payphone provider revenues are allocated on a state-by-state basis by multiplying nationwide interstate payphone revenues by the percentage of independent payphones in a state. We allocate interstate wireless revenues on a state-by-state basis by multiplying nationwide interstate mobile revenues by the percentage of mobile wireless subscriptions in a state.

In contrast, interstate ILEC revenues and toll carrier revenues are allocated differently than intrastate revenues. In Table 4, interstate toll carriers' revenues are allocated on a state-by-state basis by multiplying nationwide interstate toll carrier revenues by the percentage of interstate access minutes in the state. Further, interstate ILEC revenues are allocated to states by multiplying interstate ILEC revenues and the percentage of estimated subscriber line charge (SLC) and access recovery charge (ARC) revenue reported in the last column of Table 6.

3 Rollups performed by Industry Analysis and Technology Division, Wireline Competition Bureau. See <https://www.fcc.gov/file/12198/download>

We estimate SLC and ARC revenue by state in Table 6.⁴ Our estimate for SLC and ARC revenues by state are calculated by the following formula: $12 * (\text{residential lines subject to the SLC and ARC}) * (\text{primary residential SLC rate per line per month} + \text{residential ARC rate per line per month}) + 12 * (\text{business lines}) * (\text{multiline business SLC rate per line per month} + \text{multiline business ARC rate per month})$.

We use data from Form 477 to estimate residential and business lines. The first and fourth column of Table 6 has data on the number of residential and business ILEC end-user switched access lines by state from FCC Form 477.⁵ Our estimate of residential customers subject to the SLCs and ARCs (Column 3) excludes customers that are in the Lifeline program. Our estimate of ILEC Lifeline customers (Column 2) is based on subscribership data provided to the FCC by USAC.

Residential SLC rates per month for 2016, shown in Column 5, are the rates filed for primary residential lines in the Tariff Review Plan (TRP) for price-cap carriers, National Exchange Carrier Association (NECA) pool rate-of-return carriers and for non-NECA pool rate-of-return carriers from June 2016 filings.⁶ Multiline business SLC rates per line per month in each state, shown in Column 7, are estimated based on the rates in the June 2016 TRP filings for price-cap companies, NECA pool and rate-of-return carriers. ARC rates for 2016 are the average of the current rate and the proposed rate from the June 2016 TRP filings for price caps carriers, NECA pool carriers and the other rate-of-return carriers. Residential ARC rate is reported in Column 6 and multiline business ARC rate is reported in Column 8.⁷

4 ARMIS forbearance reduced the amount of data collected by the FCC. Hence, we simplified our estimation process for SLC revenues, beginning with the 2009 revenue data, and base it on residential lines and business lines. We no longer separate non-primary residential and single-line business from the totals and apply different rates to them.

5 Voice Telephone Service: Status as of June 30, 2017, at <https://www.fcc.gov/wireline-competition/voice-telephone-services-report>.

6 Residential and Business lines from Form 477 are used as weights. We assume that the residential SLC for NECA pool and rate-of-return carriers during the relevant time period was \$6.50.

7 Multiline business ARC rate is the weighted average of the centrex ARC rate and non-centrex rate in each state.

Table 1
End-User Telecommunications Revenues by State: 2016
(Dollar Amounts Shown in Millions)

	Intrastate	Interstate and International	Total	% of Total
Alabama	\$1,205	\$824	\$2,030	1.37%
Alaska	203	155	357	0.24
American Samoa	8	5	13	0.01
Arizona	1,665	1,234	2,898	1.96
Arkansas	711	507	1,218	0.82
California	10,933	6,704	17,637	11.93
Colorado	1,464	1,138	2,602	1.76
Connecticut	1,078	798	1,876	1.27
Delaware	289	236	525	0.36
District of Columbia	446	351	798	0.54
Florida	5,361	3,641	9,002	6.09
Georgia	2,684	1,870	4,554	3.08
Guam	36	29	64	0.04
Hawaii	360	266	626	0.42
Idaho	376	287	663	0.45
Illinois	3,499	2,397	5,896	3.99
Indiana	1,610	1,122	2,732	1.85
Iowa	794	599	1,393	0.94
Kansas	748	508	1,256	0.85
Kentucky	1,113	810	1,923	1.30
Louisiana	1,222	776	1,998	1.35
Maine	362	268	629	0.43
Maryland	1,849	1,427	3,276	2.22
Massachusetts	2,118	1,386	3,505	2.37
Michigan	2,485	1,614	4,100	2.77
Minnesota	1,557	1,112	2,669	1.81
Mississippi	654	451	1,105	0.75
Missouri	1,543	1,124	2,668	1.81
Montana	268	214	482	0.33
Nebraska	516	404	920	0.62
Nevada	762	525	1,287	0.87
New Hampshire	380	294	673	0.46
New Jersey	2,877	2,088	4,966	3.36
New Mexico	494	385	879	0.59
New York	6,226	3,938	10,164	6.88
North Carolina	2,583	1,831	4,414	2.99
North Dakota	198	153	351	0.24
N. Mariana Islands	10	6	16	0.01
Ohio	3,111	2,067	5,178	3.50
Oklahoma	908	608	1,517	1.03
Oregon	1,003	720	1,723	1.17
Pennsylvania	3,746	2,637	6,382	4.32
Puerto Rico	724	619	1,342	0.91
Rhode Island	303	196	498	0.34
South Carolina	1,221	881	2,102	1.42
South Dakota	228	168	397	0.27
Tennessee	1,708	1,152	2,860	1.94
Texas	6,696	4,308	11,003	7.45
Utah	666	485	1,151	0.78
Vermont	193	157	350	0.24
Virgin Islands	36	46	82	0.06
Virginia	2,381	1,770	4,151	2.81
Washington	1,861	1,294	3,154	2.13
West Virginia	459	397	856	0.58
Wisconsin	1,512	1,079	2,591	1.75
Wyoming	153	120	273	0.18
Total	\$87,598	\$60,181	\$147,780	100.00%

Note: Figures may not add to totals due to rounding.

Table 2
End-User Telecommunication Revenue by Providers: 2016
(In Millions)

	Intrastate	Interstate and International	Total
ILECs	\$22,099	\$9,997	\$32,096
CLECs and interconnected VoIP Providers	16,018	12,111	28,128
Payphone Providers	271	52	323
Wireless Carriers	44,295	21,319	65,614
Toll Carriers	4,916	16,703	21,619
Total	\$87,598	\$60,181	\$147,780

Source: Form 499 data.

End-User revenue is defined as FCC Form 499-A lines 403 to 417. Total revenues are derived from 403a:417a, interstate and international revenues are derived from 403d:417d + 403e:417e, and intrastate revenues are derived from 403a:417a - 403d:417d - 403e:417e.

Table 3
Intrastate End-User Telecommunications Revenues by Provider: 2016
(Dollar Amounts Shown in Millions)

	CLECs and interconnected VoIP Providers					Toll Carriers	Total	% of Total
	ILECs		Payphone Providers	Wireless Carriers				
Alabama	\$320	\$175	\$1	\$637	\$71		\$1,205	1.38%
Alaska	69	27	1	91	15		203	0.23
American Samoa	3	0	0	4	1		8	0.01
Arizona	346	350	3	889	77		1,665	1.90
Arkansas	199	76	1	391	44		711	0.81
California	2,805	1,931	48	5,525	624		10,933	12.48
Colorado	355	286	3	741	79		1,464	1.67
Connecticut	254	285	2	481	57		1,078	1.23
Delaware	80	64	1	127	18		289	0.33
District of Columbia	147	70	1	196	33		446	0.51
Florida	1,246	1,073	9	2,756	277		5,361	6.12
Georgia	672	462	2	1,398	150		2,684	3.06
Guam	12	1	0	21	3		36	0.04
Hawaii	96	42	0	200	21		360	0.41
Idaho	106	38	0	209	24		376	0.43
Illinois	871	626	9	1,799	194		3,499	3.99
Indiana	429	250	3	832	96		1,610	1.84
Iowa	243	106	2	389	54		794	0.91
Kansas	170	130	1	409	38		748	0.85
Kentucky	324	155	2	560	72		1,113	1.27
Louisiana	296	187	2	672	66		1,222	1.40
Maine	98	78	1	164	22		362	0.41
Maryland	576	303	3	838	128		1,849	2.11
Massachusetts	482	538	7	984	107		2,118	2.42
Michigan	542	469	3	1,351	121		2,485	2.84
Minnesota	416	286	2	760	93		1,557	1.78
Mississippi	184	64	1	364	41		654	0.75
Missouri	437	207	2	800	97		1,543	1.76
Montana	84	35	0	130	19		268	0.31
Nebraska	134	97	1	254	30		516	0.59
Nevada	179	153	2	389	40		762	0.87
New Hampshire	77	115	1	169	17		380	0.43
New Jersey	711	706	10	1,292	158		2,877	3.28
New Mexico	141	56	1	266	31		494	0.56
New York	1,395	1,430	46	3,044	310		6,226	7.11
North Carolina	665	473	3	1,294	148		2,583	2.95
North Dakota	62	25	0	96	14		198	0.23
N. Mariana Islands	4	0	0	5	1		10	0.01
Ohio	773	564	6	1,596	172		3,111	3.55
Oklahoma	223	139	1	496	50		908	1.04
Oregon	231	190	3	529	51		1,003	1.15
Pennsylvania	1,056	709	10	1,735	235		3,746	4.28
Puerto Rico	181	80	3	420	40		724	0.83
Rhode Island	75	75	1	135	17		303	0.35
South Carolina	326	199	1	622	73		1,221	1.39
South Dakota	65	43	0	106	14		228	0.26
Tennessee	391	294	1	935	87		1,708	1.95
Texas	1,592	1,019	17	3,714	354		6,696	7.64
Utah	148	120	1	363	33		666	0.76
Vermont	65	38	1	74	15		193	0.22
Virgin Islands	14	1	0	18	3		36	0.04
Virginia	688	439	14	1,087	153		2,381	2.72
Washington	402	396	22	950	90		1,861	2.12
West Virginia	156	73	3	193	35		459	0.52
Wisconsin	438	246	11	719	98		1,512	1.73
Wyoming	45	19	3	77	10		153	0.17
Total	\$22,099	\$16,014	\$271	\$44,295	\$4,916		\$87,598	100.00%

Note: Figures may not add to totals due to rounding.

Table 4
Interstate and International End-User Telecommunications Revenues by Provider: 2016
(Dollar Amounts Shown in Millions)

	CLECs and interconnected VoIP Providers						
	ILECs	Payphone Providers	Wireless Carriers	Toll Carriers		Total	% of Total
Alabama	\$154	\$133	\$0	\$307	\$230	\$824	1.37%
Alaska	40	20	0	44	51	155	0.26
American Samoa	2	0	0	2	1	5	0.01
Arizona	183	264	1	428	357	1,234	2.05
Arkansas	95	57	0	188	167	507	0.84
California	982	1,460	9	2,659	1,594	6,704	11.14
Colorado	204	216	1	357	361	1,138	1.89
Connecticut	111	216	0	231	240	798	1.33
Delaware	38	49	0	61	88	236	0.39
District of Columbia	44	53	0	94	160	351	0.58
Florida	602	811	2	1,326	900	3,641	6.05
Georgia	335	349	0	673	513	1,870	3.11
Guam	7	0	0	10	11	29	0.05
Hawaii	46	32	0	96	92	266	0.44
Idaho	55	29	0	100	103	287	0.48
Illinois	372	474	2	866	684	2,397	3.98
Indiana	209	189	1	400	323	1,122	1.86
Iowa	122	80	0	187	209	599	0.99
Kansas	77	98	0	197	135	508	0.84
Kentucky	163	117	0	269	260	810	1.35
Louisiana	137	141	0	323	174	776	1.29
Maine	46	59	0	79	84	268	0.44
Maryland	245	229	1	403	549	1,427	2.37
Massachusetts	227	407	1	473	277	1,386	2.30
Michigan	227	355	1	650	381	1,614	2.68
Minnesota	223	216	0	366	305	1,112	1.85
Mississippi	85	48	0	175	143	451	0.75
Missouri	198	157	0	385	384	1,124	1.87
Montana	49	27	0	63	76	214	0.36
Nebraska	69	74	0	122	139	404	0.67
Nevada	67	115	0	187	155	525	0.87
New Hampshire	37	87	0	81	87	294	0.49
New Jersey	333	534	2	622	598	2,088	3.47
New Mexico	86	42	0	128	129	385	0.64
New York	609	1,082	9	1,465	773	3,938	6.54
North Carolina	325	358	1	623	525	1,831	3.04
North Dakota	36	19	0	46	51	153	0.25
N. Mariana Islands	2	0	0	2	2	6	0.01
Ohio	301	426	1	768	571	2,067	3.44
Oklahoma	100	105	0	239	165	608	1.01
Oregon	124	144	0	254	198	720	1.20
Pennsylvania	492	536	2	835	771	2,637	4.38
Puerto Rico	82	60	0	202	274	619	1.03
Rhode Island	35	57	0	65	39	196	0.32
South Carolina	167	151	0	299	265	881	1.46
South Dakota	37	33	0	51	48	168	0.28
Tennessee	190	222	0	450	290	1,152	1.91
Texas	693	770	3	1,787	1,054	4,308	7.16
Utah	81	91	0	175	138	485	0.81
Vermont	30	29	0	36	62	157	0.26
Virgin Islands	7	0	0	9	30	46	0.08
Virginia	293	332	3	523	618	1,770	2.94
Washington	209	300	4	457	323	1,294	2.15
West Virginia	83	55	0	93	166	397	0.66
Wisconsin	207	186	2	346	338	1,079	1.79
Wyoming	27	14	0	37	41	120	0.20
Total	\$9,997	\$12,108	\$52	\$21,319	\$16,703	\$60,181	100.00%

Note: Figures may not add to totals due to rounding.

Table 5
Data Used to Allocate Nationwide Revenue to States
(Lines/Subscribers/Minutes Shown in Thousands)

	ILEC End-User Switched Access Lines and VoIP		Non-ILEC End- User Switched Access Lines and VoIP		Number of Independent Payphones:		Wireless		Interstate Access	
	Subscriptions: June 2016	Percent of Total	Subscriptions: June 2016 ¹	Percent of Total	March 2016 ²	Percent of Total	Subscribers: June 2016 ³	Percent of Total	Minutes: 2016	Percent of Total
Alabama	890	1.45%	677	1.10%	0	0.00%	4,818	1.44%	1,666,368	1.38%
Alaska	192	0.31	103	0.17	0	0.24	687	0.21	365,734	0.30
American Samoa	8	0.01	0	0.00	0	0.01	31	0.01	9,939	0.01
Arizona	963	1.57	1,350	2.18	1	1.04	6,721	2.01	2,586,982	2.14
Arkansas	553	0.90	293	0.47	0	0.30	2,955	0.88	1,208,066	1.00
California	7,800	12.69	7,450	12.05	16	17.61	41,779	12.47	11,536,264	9.54
Colorado	986	1.60	1,104	1.79	1	1.12	5,603	1.67	2,610,980	2.16
Connecticut	707	1.15	1,100	1.78	1	0.57	3,634	1.08	1,734,966	1.44
Delaware	222	0.36	248	0.40	0	0.19	960	0.29	636,547	0.53
District of Columbia	409	0.67	270	0.44	0	0.22	1,481	0.44	1,161,102	0.96
Florida	3,465	5.64	4,139	6.70	3	3.38	20,838	6.22	6,514,610	5.39
Georgia	1,869	3.04	1,781	2.88	1	0.79	10,573	3.16	3,715,334	3.07
Guam	32	0.05	2	0.00	0	0.03	159	0.05	79,756	0.07
Hawaii	267	0.43	164	0.27	0	0.03	1,512	0.45	664,683	0.55
Idaho	294	0.48	146	0.24	0	0.15	1,577	0.47	748,787	0.62
Illinois	2,423	3.94	2,417	3.91	3	3.43	13,600	4.06	4,950,283	4.09
Indiana	1,194	1.94	964	1.56	1	1.02	6,292	1.88	2,336,941	1.93
Iowa	676	1.10	410	0.66	1	0.61	2,942	0.88	1,514,297	1.25
Kansas	472	0.77	500	0.81	0	0.39	3,096	0.92	979,770	0.81
Kentucky	901	1.47	598	0.97	1	0.75	4,232	1.26	1,882,579	1.56
Louisiana	824	1.34	721	1.17	1	0.59	5,078	1.52	1,262,072	1.04
Maine	272	0.44	300	0.49	0	0.32	1,237	0.37	608,194	0.50
Maryland	1,603	2.61	1,170	1.89	1	1.19	6,335	1.89	3,976,294	3.29
Massachusetts	1,341	2.18	2,078	3.36	2	2.50	7,438	2.22	2,005,313	1.66
Michigan	1,507	2.45	1,810	2.93	1	1.02	10,216	3.05	2,760,943	2.28
Minnesota	1,157	1.88	1,105	1.79	1	0.75	5,750	1.72	2,209,617	1.83
Mississippi	512	0.83	246	0.40	0	0.20	2,755	0.82	1,031,876	0.85
Missouri	1,214	1.98	800	1.29	1	0.76	6,051	1.81	2,780,712	2.30
Montana	233	0.38	136	0.22	0	0.12	983	0.29	547,837	0.45
Nebraska	372	0.61	376	0.61	0	0.36	1,919	0.57	1,006,066	0.83
Nevada	497	0.81	589	0.95	1	0.84	2,940	0.88	1,123,877	0.93
New Hampshire	214	0.35	445	0.72	0	0.38	1,280	0.38	633,228	0.52
New Jersey	1,977	3.22	2,723	4.41	3	3.83	9,772	2.92	4,328,324	3.58
New Mexico	391	0.64	215	0.35	0	0.29	2,008	0.60	934,385	0.77
New York	3,879	6.31	5,520	8.93	15	17.08	23,020	6.87	5,596,686	4.63
North Carolina	1,848	3.01	1,827	2.96	1	1.20	9,785	2.92	3,799,642	3.14
North Dakota	173	0.28	98	0.16	0	0.11	729	0.22	371,205	0.31
N. Mariana Islands	12	0.02	1	0.00	0	0.01	37	0.01	12,715	0.01
Ohio	2,149	3.50	2,176	3.52	2	2.23	12,070	3.60	4,131,542	3.42
Oklahoma	621	1.01	535	0.87	0	0.46	3,747	1.12	1,192,804	0.99
Oregon	642	1.04	733	1.19	1	0.93	3,998	1.19	1,429,545	1.18
Pennsylvania	2,937	4.78	2,737	4.43	3	3.83	13,120	3.92	5,580,288	4.62
Puerto Rico	503	0.82	308	0.50	1	0.96	3,178	0.95	1,980,500	1.64
Rhode Island	208	0.34	290	0.47	0	0.26	1,024	0.31	279,453	0.23
South Carolina	907	1.48	769	1.24	0	0.45	4,700	1.40	1,914,735	1.58
South Dakota	180	0.29	166	0.27	0	0.08	801	0.24	348,084	0.29
Tennessee	1,088	1.77	1,134	1.83	0	0.46	7,067	2.11	2,096,537	1.73
Texas	4,427	7.20	3,932	6.36	6	6.27	28,080	8.38	7,625,267	6.31
Utah	412	0.67	465	0.75	0	0.47	2,747	0.82	997,772	0.83
Vermont	182	0.30	148	0.24	0	0.19	560	0.17	449,579	0.37
Virgin Islands	38	0.06	2	0.00	0	0.03	139	0.04	217,129	0.18
Virginia	1,912	3.11	1,695	2.74	5	5.23	8,220	2.45	4,474,548	3.70
Washington	1,119	1.82	1,530	2.48	7	8.05	7,186	2.15	2,341,061	1.94
West Virginia	434	0.71	281	0.45	1	0.93	1,458	0.44	1,198,377	0.99
Wisconsin	1,219	1.98	949	1.54	4	4.23	5,433	1.62	2,448,614	2.03
Wyoming	124	0.20	73	0.12	1	0.95	584	0.17	296,678	0.25
Total	61,451	100.00%	61,812	100.00%	90	100.00%	334,935	100.00%	120,895,487	100.00%

Note: Figures may not add to totals due to rounding.

¹ Lines for Alaska, Guam, and Virgin Islands are estimated based on housing unit data from the 2010 Census

² Payphone customers for the territories are estimated based on housing unit data from the 2010 census. The total includes estimates for the territories. O indicates the number of payphones is between 0 and 500.

³ Wireless subscribers for American Samoa, Guam, Northern Mariana Islands and Virgin Islands are estimated based on housing unit data from the 2010 Census.

Table 6
Data Used to Allocate Interstate ILEC Revenue by State
(Lines/Revenues Shown in Thousands)

	Residential ILEC				Business ILEC End-				Estimated SLC and ARC Revenue		Percent of Total
	End-User Switched		User Switched								
	Access Lines and	Estimated	Residential	Access Lines and	Residential	Multi-line	Multi-line				
	VoIP Subscriptions: June 2016	ILEC Lifeline Subscribers	Lines Subject to a SLC	VoIP Subscriptions: June 2016	Primary SLC Rate	Residential ARC Rate	Business SLC Rate	Business ARC Rate			
Alabama	540	9	531	350	\$6.49	\$0.73	\$7.04	\$1.67	\$83	1.55%	
Alaska	76	5	71	116	6.50	0.70	8.97	2.02	21	0.40	
American Samoa	4	0	4	4	6.50	2.25	9.20	3.00	1	0.02	
Arizona	426	10	416	537	6.17	1.56	6.58	2.64	98	1.83	
Arkansas	325	5	320	228	6.16	1.03	6.65	1.79	51	0.95	
California	3,869	518	3,351	3,931	5.12	0.09	5.36	1.35	526	9.83	
Colorado	485	5	480	501	6.47	1.88	6.67	3.48	109	2.04	
Connecticut	415	3	412	292	5.98	0.85	6.04	1.29	59	1.11	
Delaware	137	0	137	85	6.46	1.17	6.47	1.13	20	0.38	
Dist. of Columbia	86	1	85	323	3.87	0.15	3.89	1.07	23	0.44	
Florida	2,051	30	2,021	1,414	6.34	0.80	7.05	1.71	322	6.02	
Georgia	1,039	13	1,026	830	6.50	0.86	7.03	1.85	179	3.35	
Guam	18	1	17	14	6.50	2.12	9.20	3.00	4	0.07	
Hawaii	141	2	139	126	6.50	0.38	8.09	0.46	24	0.46	
Idaho	151	4	147	143	6.47	0.58	7.01	2.81	29	0.55	
Illinois	1,206	10	1,196	1,217	5.22	1.46	5.47	1.59	199	3.72	
Indiana	681	5	676	513	6.12	0.98	7.05	1.77	112	2.09	
Iowa	385	6	379	291	5.60	1.51	6.34	3.03	65	1.22	
Kansas	268	6	262	204	6.01	1.00	6.24	1.67	41	0.77	
Kentucky	534	17	517	367	6.38	1.13	7.26	1.95	87	1.63	
Louisiana	465	4	461	359	6.50	0.30	6.79	1.45	73	1.37	
Maine	175	9	166	97	6.27	1.28	6.56	1.64	25	0.46	
Maryland	928	2	926	675	5.67	1.18	5.70	1.10	131	2.45	
Massachusetts	762	17	745	579	6.41	1.17	6.44	1.30	122	2.27	
Michigan	802	9	793	705	5.90	0.05	6.10	1.58	122	2.27	
Minnesota	640	16	624	517	5.69	1.83	6.88	3.30	120	2.23	
Mississippi	290	5	285	222	6.50	0.45	6.70	1.39	45	0.85	
Missouri	735	13	722	479	5.96	0.87	6.35	1.78	106	1.98	
Montana	138	5	133	95	6.50	1.36	9.20	2.68	26	0.49	
Nebraska	189	5	184	183	5.31	1.72	6.10	3.61	37	0.69	
Nevada	273	5	268	224	4.11	1.39	4.59	2.12	36	0.67	
New Hampshire	128	1	127	86	6.25	1.32	6.41	1.79	20	0.37	
New Jersey	1,190	23	1,167	787	6.22	1.25	6.37	1.42	178	3.33	
New Mexico	221	13	208	170	6.50	1.98	9.20	3.00	46	0.86	
New York	2,263	78	2,185	1,616	5.86	0.43	6.74	1.57	326	6.09	
North Carolina	1,119	17	1,102	729	5.99	1.29	6.71	2.15	174	3.25	
North Dakota	102	5	97	71	6.50	1.62	8.71	2.92	19	0.36	
Northern Mariana Islands	8	2	6	4	6.50	0.00	9.20	0.00	1	0.02	
Ohio	1,183	27	1,156	966	4.97	1.10	5.11	1.52	161	3.01	
Oklahoma	353	15	338	268	5.92	0.97	6.21	1.70	53	1.00	
Oregon	356	19	337	286	6.46	1.00	7.70	2.76	66	1.24	
Pennsylvania	1,911	22	1,889	1,026	5.90	1.38	6.52	1.46	263	4.92	
Puerto Rico	394	30	364	109	6.50	0.47	9.20	0.98	44	0.82	
Rhode Island	149	3	146	59	6.36	1.17	6.44	1.20	19	0.35	
South Carolina	566	10	556	341	6.32	1.69	6.97	1.74	89	1.67	
South Dakota	105	3	102	75	6.50	1.86	7.69	2.77	20	0.37	
Tennessee	654	12	642	434	6.32	1.04	6.86	1.74	101	1.90	
Texas	2,349	78	2,271	2,078	5.90	0.64	6.08	1.64	371	6.94	
Utah	182	5	177	230	6.42	1.52	6.87	2.65	43	0.81	
Vermont	119	11	108	63	6.29	1.41	6.60	1.66	16	0.30	
Virgin Islands	21	0	21	17	6.50	0.57	8.96	1.14	4	0.07	
Virginia	1,170	4	1,166	742	5.62	0.48	6.51	1.53	157	2.93	
Washington	613	24	589	506	6.14	1.49	7.06	2.47	112	2.09	
West Virginia	263	2	261	171	6.50	0.04	8.50	3.19	44	0.83	
Wisconsin	667	12	655	552	6.20	0.79	6.59	1.83	111	2.07	
Wyoming	52	0	52	72	6.50	0.14	9.19	2.72	14	0.27	
Total	34,372	1,155	36,733	27,079	\$5.90	\$1.12	\$6.35	\$1.73	\$5,349	100.00%	

Note: Figures may not add to totals due to rounding.