

APPENDIX VI
NON-PRICE RIVALRY

Investment

Table VI.A.i
Quarterly Capital Expenditure by Mobile Wireless Providers (In millions)
2012 –2014

	1Q12	2Q12	3Q12	4Q12	1Q13	2Q13	3Q13	4Q13	1Q14	2Q14	3Q14	4Q14
National Operators												
Verizon Wireless	1,885	2,048	2,133	2,791	1,992	2,278	2,450	2,705	2,554	2,771	2,483	2,707
AT&T	2,324	2,345	2,709	3,417	2,296	3,033	3,060	2,802	3,082	3,480	2,636	2,185
Sprint	710	1,012	1,376	1,786	1,706	1,728	1,683	1,716	930	1,276	1,354	1,326
T-Mobile	747	539	717	898	1,076	1,050	1,017	882	947	940	1131	1299
Total National	5,666	5,944	6,935	8,892	7,070	8,089	8,210	8,105	7,513	8,467	7,604	7,517
Regional Operators												
Cincinnati Bell	6	2	4	3	8	2	2	4	6	1	0	0
Leap	146	119	106	63	26	22	90	130				
Metro PCS	144	182	262	258								
NTELOS	13	19	22	19	17	27	21	16	14	30	24	39
US Cellular	201	183	199	253	118	169	243	208	90	144	142	182
Total Regional	511	505	593	595	170	220	356	357	109	174	167	221
Total	6,177	6,449	7,528	9,487	7,240	8,309	8,566	8,462	7,622	8,641	7,771	7,738

Notes: Based on UBS Wireless 411 Report, Version 51 4Q13, Figure 48; and UBS Wireless 411 Report Version 55 4Q14, Figure 54; and UBS Wireless 411 Report Version 55, Figure 54. Metro PCS data are not available separately after the fourth quarter of 2012 as the T-Mobile and MetroPCS merger was consummated in early 2013. Leap is reported separately from AT&T as the AT&T and Leap merger was not consummated by the fourth quarter of 2013. *[This table has been updated with 3Q14 and 4Q14 data from UBS Wireless 411 Version 55 post-release of the 17th Report.]*

Network Coverage and Technology Upgrades

Table VI.B.i
Estimated Mobile Wireless Coverage in the U.S. by Provider, July 2014

Provider	Number of Blocks	POPS Contained in Those Blocks	% of Total US POPs	% of Total US Square Miles	% of Total US Road Miles
<i>US Total</i>	11,155,486	312,471,327	100.0	100.0	100.0
ATT	10,582,149	309,982,632	99.2	67.1	89.5
Verizon Wireless	10,221,794	303,439,854	97.1	62.3	85.8
Sprint	7,634,852	281,510,176	90.1	25.0	49.0
T-Mobile	8,115,025	285,170,987	91.3	33.3	56.9

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

Table VI.B.iii
Estimated Mobile Wireless Broadband Coverage in the U.S. by Provider, July 2014

Provider	Number of Blocks	POPS Contained in Those Blocks	% of Total US POPs	% of Total US Square Miles	% of Total US Road Miles
<i>US Total</i>	11,155,486	312,471,327	100.0	100.0	100.0
ATT	10,534,875	309,766,906	99.1	65.8	88.7
Verizon Wireless	10,176,160	303,166,794	97.0	60.9	84.8
Sprint	7,631,926	281,480,354	90.1	25.0	49.0
T-Mobile	5,638,798	246,672,635	78.9	15.6	33.0

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

Table VI.B.v
Estimated Mobile Wireless Voice Coverage in Rural Areas by Provider, July 2014

	Number of Rural Census Blocks	POPS Contained in Rural Census Blocks	% of Total U.S. POPs	% of Total U.S. Square Miles	% of Total U.S. Road Miles
Total for US	5,387,335	59,151,859	18.9	84.5	67.3
Provider	Number of Rural Census Blocks	POPS Contained in Rural Census Blocks	% of Total Rural U.S. POPs	% of Total Rural U.S. Square Miles	% of Total Rural U.S. Road Miles
ATT	4,390,889	54,205,440	91.6	49.9	72.7
Verizon Wireless	4,477,883	53,390,870	90.3	55.6	78.0
Sprint	2,060,061	33,251,725	56.2	14.2	26.4
T-Mobile	2,624,543	37,484,575	63.4	24.2	39.3

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

Table VI.B.vi
Estimated Mobile Wireless Voice Coverage in Non-Rural Areas by Provider, July 2014

	Number of Non-Rural Census Blocks	POPS Contained in Non-Rural Census Blocks	% of Total U.S. POPs	% of Total U.S. Square Miles	% of Total U.S. Road Miles
Total for US	5,768,151	253,319,468	81.8	15.5	32.7
Provider	Number of Non-Rural Census Blocks	POPS Contained in Non-Rural Census Blocks	% of Total Non-Rural U.S. POPs	% of Total Non-Rural U.S. Square Miles	% of Total Non-Rural U.S. Road Miles
ATT	5,718,268	252,908,399	99.8	89.4	97.8
Verizon Wireless	5,589,979	248,105,516	97.9	85.8	95.4
Sprint	5,061,897	238,764,615	94.3	56.3	78.0
T-Mobile	5,386,402	246,662,742	97.4	74.0	88.6

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

Table VI.B.vii
Estimated Mobile Broadband Coverage in Rural Areas by Provider, July 2014

	Number of Rural Census Blocks	POPS Contained in Rural Census Blocks	% of Total U.S. POPs	% of Total U.S. Square Miles	% of Total U.S. Road Miles
Total for US	5,387,335	59,151,859	18.9	84.5	67.3
Provider	Number of Rural Census Blocks	POPS Contained in Rural Census Blocks	% of Total Rural U.S. POPs	% of Total Rural U.S. Square Miles	% of Total Rural U.S. Road Miles
ATT	4,789,734	56,580,614	95.7	61.1	83.8
Verizon Wireless	4,559,226	54,355,237	91.9	56.1	79.2
Sprint	2,357,098	36,685,824	62.0	17.6	31.8
T-Mobile	1,015,855	17,645,855	29.8	9.0	14.8

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*

Table VI.B.viii
Estimated Mobile Broadband Coverage in Non-Rural Areas by Provider, July 2014

	Number of Non-Rural Census Blocks	POPS Contained in Non-Rural Census Blocks	% of Total U.S. POPs	% of Total U.S. Square Miles	% of Total U.S. Road Miles
Total for US	5,768,151	253,319,468	81.8	15.5	32.7
Provider	Number of Non-Rural Census Blocks	POPS Contained in Non-Rural Census Blocks	% of Total Non-Rural U.S. POPs	% of Total Non-Rural U.S. Square Miles	% of Total Non-Rural U.S. Road Miles
ATT	5,745,141	253,186,292	99.9	91.3	98.9
Verizon Wireless	5,616,934	248,811,557	98.2	87.1	96.2
Sprint	5,274,828	244,794,530	96.6	65.2	84.2
T-Mobile	4,622,943	229,026,780	90.4	51.8	70.4

Note: Based on Mosaik July 2014 Data and Census 2010 Data. Calculations based on Mosaik data on coverage, while useful for measuring developments in mobile wireless coverage, have certain limitations that likely overstate the extent of mobile broadband coverage. The number of providers in a census block reflects network coverage, which does not necessarily reflect the number of choices available to a particular individual or household. *[This table has been updated from January 2014 Mosaik to July 2014 Mosaik data post-release of the 17th Report.]*