

Spectrum Depth by County

Total Spectrum Depth and Spectrum by Band Class

Data Source		Future Holdings								Low Band								Mid Band								High Band							
		Total Spectrum Depth (MHz)								Low Band								Mid Band								High Band							
Enter Carrier Codes		Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C Spire	Bluegrass Cellular
		VW	AT	TM	SP	DI	US	CS	BG	VW	AT	TM	SP	DI	US	CS	BG	VW	AT	TM	SP	DI	US	CS	BG	VW	AT	TM	SP	DI	US	CS	BG
NJ	Morris County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NJ	Passaic County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NJ	Somerset County	127	141	82	195	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	141	0	0	0	0
NJ	Union County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NY	Bronx County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NY	Kings County	127	141	82	212	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	158	0	0	0	0
NY	Nassau County	127	141	82	212	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	158	0	0	0	0
NY	New York County	127	141	82	212	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	158	0	0	0	0
NY	Putnam County	127	141	82	172	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	118	0	0	0	0
NY	Queens County	127	141	82	212	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	158	0	0	0	0
NY	Richmond County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NY	Rockland County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
NY	Suffolk County	127	141	82	240	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	186	0	0	0	0
NY	Westchester County	127	141	82	189	95	0	0	0	47	61	12	14	0	0	0	0	80	50	70	40	95	0	0	0	0	30	0	135	0	0	0	0
CA	Los Angeles County	127	161	82	240	75	0	0	0	47	61	12	14	0	0	0	0	80	70	70	40	75	0	0	0	0	30	0	186	0	0	0	0
CA	Orange County	127	161	82	218	75	0	0	0	47	61	12	14	0	0	0	0	80	70	70	40	75	0	0	0	0	30	0	164	0	0	0	0
CA	Riverside County	127	161	82	218	75	0	0	0	47	61	12	14	0	0	0	0	80	70	70	40	75	0	0	0	0	30	0	164	0	0	0	0
CA	San Bernardino County	127	161	82	218	75	0	0	0	47	61	12	14	0	0	0	0	80	70	70	40	75	0	0	0	0	30	0	164	0	0	0	0
IL	Cook County	97	165	60	239	101	0	0	0	47	55	0	14	6	0	0	0	50	80	60	50	95	0	0	0	0	30	0	175	0	0	0	0
IL	DuPage County	97	165	60	239	101	0	0	0	47	55	0	14	6	0	0	0	50	80	60	50	95	0	0	0	0	30	0	175	0	0	0	0
IL	Kane County	97	165	60	239	101	0	0	0	47	55	0	14	6	0	0	0	50	80	60	50	95	0	0	0	0	30	0	175	0	0	0	0
IL	Lake County	97	165	60	239	101	0	0	0	47	55	0	14	6	0	0	0	50	80	60	50	95	0	0	0	0	30	0	175	0	0	0	0
IL	McHenry County	107	165	50	228	101	0	0	0	47	55	0	14	6	0	0	0	60	80	50	50	95	0	0	0	0	30	0	164	0	0	0	0
IL	Will County	97	165	60	250	101	0	0	0	47	55	0	14	6	0	0	0	50	80	60	50	95	0	0	0	0	30	0	186	0	0	0	0
NJ	Burlington County	117	171	82	240	75	0	0	0	47	61	12	14	0	0	0	0	70	80	70	40	75	0	0	0	0	30	0	186	0	0	0	0

Spectrum Depth by Market

Total Spectrum Depth and Spectrum by Band Class

		Data Source:	Future Holdings																																	
		Instructions: The carriers for this table are selected as the first eight carriers on the County Analysis worksheet. The spectrum depth data reflects the FCC, Current, or Proposed setting from the Spectrum Grid Worksheet.																																		
CMA Rank	CMA		MARKET NAME	Population	Total	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C-Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C-Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C-Spire	Bluegrass Cellular	Verizon Wireless	AT&T	T-Mobile	Sprint	DISH	US Cellular	C-Spire
1	2	Los Angeles-Anaheim, CA	17,053,688	127 161 82 230 75 0 0 0	47 61 12 14 0 0 0 0	80 70 70 40 75 0 0 0	0 30 0 176 0 0 0 0																													
2	1	New York-Newark, NY-NJ	16,545,167	127 141 82 206 95 0 0 0	47 61 12 14 0 0 0 0	80 50 70 40 95 0 0 0	0 30 0 152 0 0 0 0																													
3	3	Chicago, IL	8,316,650	97 165 60 239 101 0 0 0	47 55 0 14 6 0 0 0	50 80 60 50 95 0 0 0	0 30 0 175 0 0 0 0																													
4	9	Dallas-Fort Worth, TX	6,331,595	112 150 102 231 81 0 0 0	22 80 12 14 6 0 0 0	90 40 90 40 75 0 0 0	0 30 0 177 0 0 0 0																													
5	10	Houston, TX	5,565,594	107 175 92 228 81 0 0 0	47 55 12 14 6 0 0 0	60 90 80 30 75 0 0 0	0 30 0 184 0 0 0 0																													
6	4	Philadelphia, PA	5,259,660	117 171 82 231 75 0 0 0	47 61 12 14 0 0 0 0	70 80 70 40 75 0 0 0	0 30 0 177 0 0 0 0																													
7	8	Washington, DC-MD-VA	4,814,094	127 165 72 239 71 0 0 0	47 55 12 14 6 0 0 0	80 80 60 40 65 0 0 0	0 30 0 185 0 0 0 0																													
8	5	Detroit-Ann Arbor, MI	4,641,041	127 145 92 216 71 0 0 0	47 55 12 14 6 0 0 0	80 60 80 40 65 0 0 0	0 30 0 162 0 0 0 0																													
9	17	Atlanta, GA	4,632,966	127 145 102 230 81 0 0 0	47 55 12 14 6 0 0 0	80 60 90 30 75 0 0 0	0 30 0 186 0 0 0 0																													
10	6	Boston-Brockton-Lowell, MA	4,429,258	117 151 82 240 90 0 0 0	47 61 12 14 0 0 0 0	70 60 70 40 90 0 0 0	0 30 0 186 0 0 0 0																													
11	7	San Francisco-Oakland, CA	4,335,391	127 161 92 212 75 0 0 0	47 61 12 14 0 0 0 0	80 70 80 30 75 0 0 0	0 30 0 168 0 0 0 0																													
12	12	Miami-Fort Lauderdale, FL	4,244,501	92 170 112 225 71 0 0 0	22 80 12 14 6 0 0 0	70 60 100 30 65 0 0 0	0 30 0 181 0 0 0 0																													
13	26	Phoenix, AZ	3,817,117	132 150 80 240 71 0 0 0	72 30 0 14 6 0 0 0	60 90 80 40 65 0 0 0	0 30 0 186 0 0 0 0																													
14	15	Minneapolis-St. Paul, MN-W	3,112,499	110 154 90 229 91 0 0 0	48 54 12 14 6 0 0 0	62 70 78 30 85 0 0 0	0 30 0 185 0 0 0 0																													
15	18	San Diego, CA	3,095,313	127 170 65 240 71 0 0 0	47 55 0 14 6 0 0 0	80 85 65 40 65 0 0 0	0 30 0 186 0 0 0 0																													
16	19	Denver-Boulder, CO	2,789,669	102 190 82 185 81 0 0 0	47 55 12 14 6 0 0 0	55 105 70 30 75 0 0 0	0 30 0 141 0 0 0 0																													
17	14	Baltimore, MD	2,662,691	137 165 72 230 71 0 0 0	47 55 12 14 6 0 0 0	90 80 60 30 65 0 0 0	0 30 0 186 0 0 0 0																													
18	20	Seattle-Everett, WA	2,644,584	127 145 92 240 81 0 0 0	47 55 12 14 6 0 0 0	80 60 80 40 75 0 0 0	0 30 0 186 0 0 0 0																													
19	22	Tampa-St. Petersburg, FL	2,610,465	127 145 97 235 81 0 0 0	47 55 12 14 6 0 0 0	80 60 85 35 75 0 0 0	0 30 0 186 0 0 0 0																													
20	11	St. Louis, MO-IL	2,609,015	107 164 60 245 81 12 0 0	47 55 0 14 6 12 0 0	60 79 60 50 75 0 0 0	0 30 0 181 0 0 0 0																													
21	91	San Juan-Caguas, PR	2,176,135	0 179 65 188 71 0 0 0	0 43 0 2 6 0 0 0	0 100 65 30 65 0 0 0	0 36 0 156 0 0 0 0																													
22	30	Portland, OR-WA	2,066,399	117 165 82 240 81 0 0 0	47 55 12 14 6 0 0 0	70 80 70 40 75 0 0 0	0 30 0 186 0 0 0 0																													
23	35	Sacramento, CA	1,968,069	117 160 97 208 71 0 0 0	47 55 12 14 6 0 0 0	70 75 85 30 65 0 0 0	0 30 0 164 0 0 0 0																													
24	13	Pittsburgh, PA	1,966,876	107 165 72 240 91 0 0 0	47 55 12 14 6 0 0 0	60 80 60 40 85 0 0 0	0 30 0 186 0 0 0 0																													
25	33	San Antonio, TX	1,954,778	92 190 92 239 71 0 0 0	22 80 12 14 6 0 0 0	70 80 80 40 65 0 0 0	0 30 0 185 0 0 0 0																													
26	93	Las Vegas, NV	1,951,269	107 165 80 218 81 0 0 0	47 55 0 14 6 0 0 0	60 80 80 40 75 0 0 0	0 30 0 164 0 0 0 0																													
27	60	Orlando, FL	1,837,359	112 150 102 235 71 0 0 0	22 80 12 14 6 0 0 0	90 40 90 35 65 0 0 0	0 30 0 186 0 0 0 0																													

