



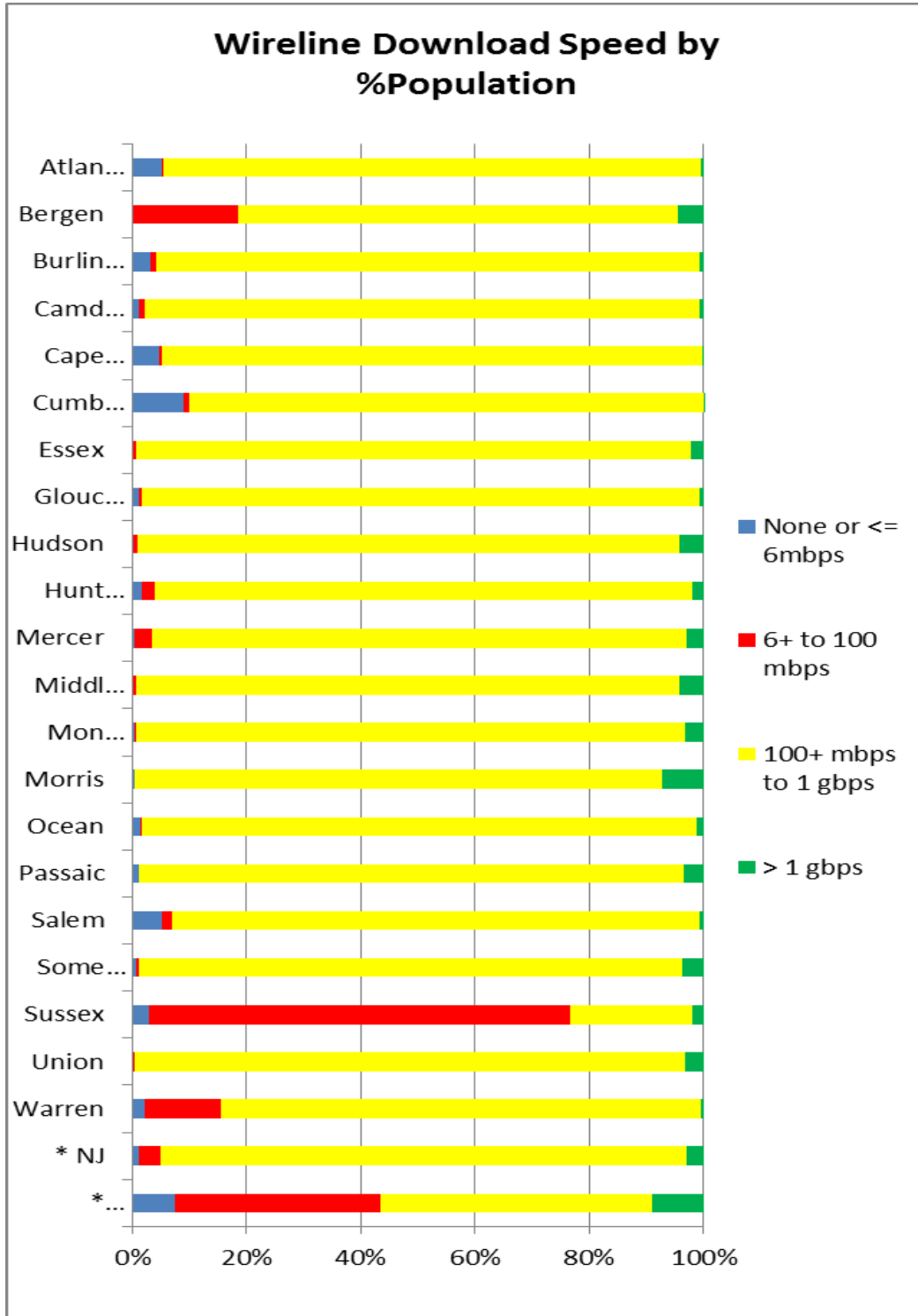
**New Jersey
Broadband Map
Broadband
Provider Data
Analysis
Report**

County Comparison Charts

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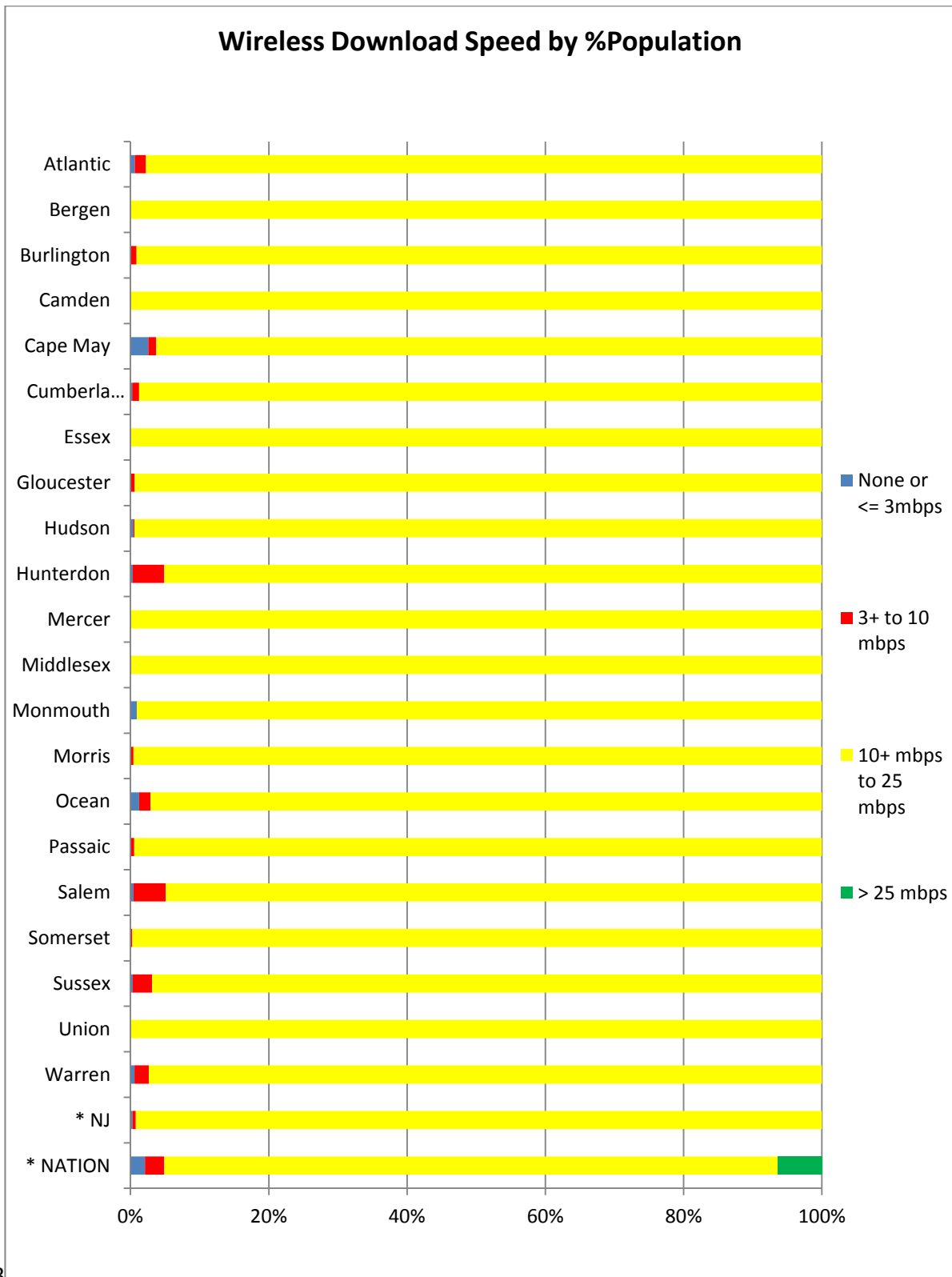
Wireline Download Speeds Available



Wireline Download Speeds Available

County	****			
	None or ≤ 6 mbps	6+ mbps to 100 mbps	100+ mbps to 1 gbps	> 1 gbps
Atlantic	5.1%	0.3%	94.0%	0.6%
Bergen	0.0%	18.6%	77.0%	4.4%
Burlington	3.3%	0.9%	95.1%	0.7%
Camden	1.1%	1.1%	97.2%	0.6%
Cape May	4.6%	0.5%	94.7%	0.2%
Cumberland	9.0%	1.0%	90.0%	0.0%
Essex	0.2%	0.3%	97.2%	2.2%
Gloucester	1.1%	0.7%	97.5%	0.8%
Hudson	0.0%	0.8%	95.0%	4.2%
Hunterdon	1.7%	2.1%	94.3%	1.8%
Mercer	0.5%	2.9%	93.8%	2.9%
Middlesex	0.2%	0.5%	95.1%	4.2%
Monmouth	0.3%	0.3%	96.1%	3.3%
Morris	0.4%	0.1%	92.4%	7.2%
Ocean	1.5%	0.2%	97.1%	1.2%
Passaic	1.0%	0.0%	95.5%	3.4%
Salem	5.1%	1.8%	92.4%	0.7%
Somerset	0.6%	0.4%	95.3%	3.7%
Sussex	2.9%	73.8%	21.4%	1.9%
Union	0.1%	0.3%	96.3%	3.3%
Warren	2.1%	13.4%	84.2%	0.5%
* NJ	1.1%	3.8%	92.2%	2.9%
* NATIONAL	7.4%	36.0%	47.8%	8.9%

Wireless Download Speeds Available

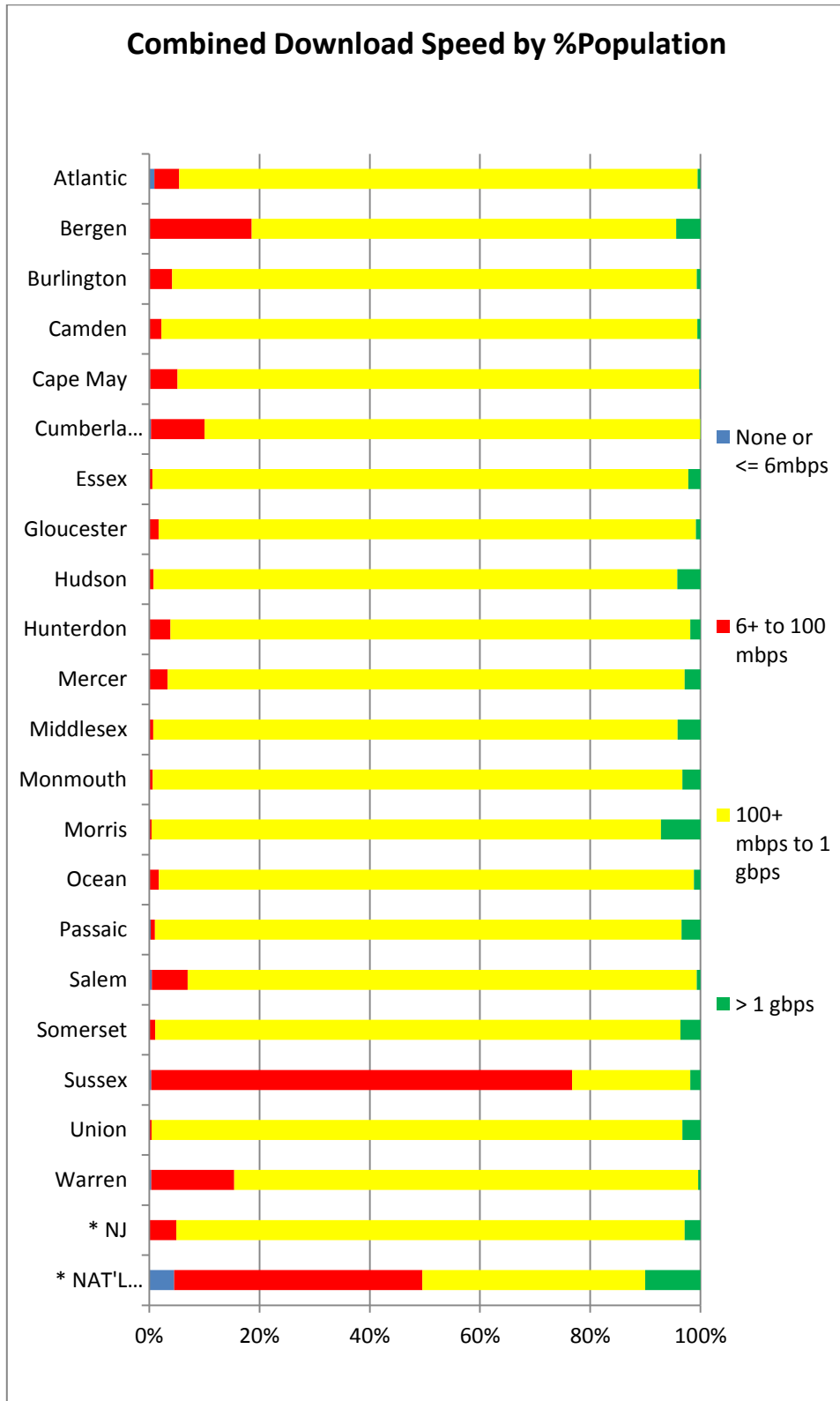


3

Wireless Download Speeds Available

County	None or ≤ 3 mbps	3+ mbps to 10 mbps	10+ mbps to 25 mbps	> 25 mbps
Atlantic	0.6%	1.6%	97.7%	0.0%
Bergen	0.0%	0.0%	100.0%	0.0%
Burlington	0.0%	0.9%	99.1%	0.0%
Camden	0.0%	0.0%	100.0%	0.0%
Cape May	2.6%	1.2%	96.3%	0.0%
Cumberland	0.2%	1.0%	98.8%	0.0%
Essex	0.0%	0.0%	100.0%	0.0%
Gloucester	0.0%	0.6%	99.4%	0.0%
Hudson	0.4%	0.1%	99.4%	0.0%
Hunterdon	0.3%	4.6%	95.1%	0.0%
Mercer	0.0%	0.1%	99.9%	0.0%
Middlesex	0.0%	0.1%	99.9%	0.0%
Monmouth	0.9%	0.0%	99.1%	0.0%
Morris	0.1%	0.3%	99.6%	0.0%
Ocean	1.2%	1.7%	97.1%	0.0%
Passaic	0.1%	0.4%	99.5%	0.0%
Salem	0.4%	4.7%	94.9%	0.0%
Somerset	0.0%	0.2%	99.7%	0.0%
Sussex	0.3%	2.8%	96.9%	0.0%
Union	0.0%	0.0%	100.0%	0.0%
Warren	0.6%	2.1%	97.4%	0.0%
* NJ	0.3%	0.5%	99.2%	0.0%
* NATIONAL	2.1%	2.8%	88.7%	6.4%

Combine Wireless and Wireline Download Speeds Available



Combine Wireless and Wireline Download Speeds Available

County	None or ≤ 6mbps	6+ to 100 mbps	100+ mbps to 1 gbps	> 1 gbps
Atlantic	0.9%	4.5%	94.0%	0.6%
Bergen	0.0%	18.6%	77.0%	4.4%
Burlington	0.1%	4.1%	95.1%	0.7%
Camden	0.0%	2.2%	97.2%	0.6%
Cape May	0.2%	5.0%	94.7%	0.2%
Cumberland	0.3%	9.7%	90.0%	0.0%
Essex	0.0%	0.6%	97.2%	2.2%
Gloucester	0.0%	1.7%	97.5%	0.8%
Hudson	0.0%	0.8%	95.0%	4.2%
Hunterdon	0.0%	3.9%	94.3%	1.8%
Mercer	0.0%	3.3%	93.8%	2.9%
Middlesex	0.0%	0.7%	95.1%	4.2%
Monmouth	0.0%	0.6%	96.1%	3.3%
Morris	0.1%	0.4%	92.4%	7.2%
Ocean	0.1%	1.6%	97.1%	1.2%
Passaic	0.3%	0.8%	95.5%	3.4%
Salem	0.5%	6.5%	92.4%	0.7%
Somerset	0.0%	1.1%	95.3%	3.7%
Sussex	0.4%	76.3%	21.4%	1.9%
Union	0.0%	0.4%	96.3%	3.3%
Warren	0.4%	15.0%	84.2%	0.5%
* NJ	0.1%	4.8%	92.2%	2.9%
* NAT'L AVG	4.5%	45.0%	40.4%	10.0%



Legend

Broadband Information

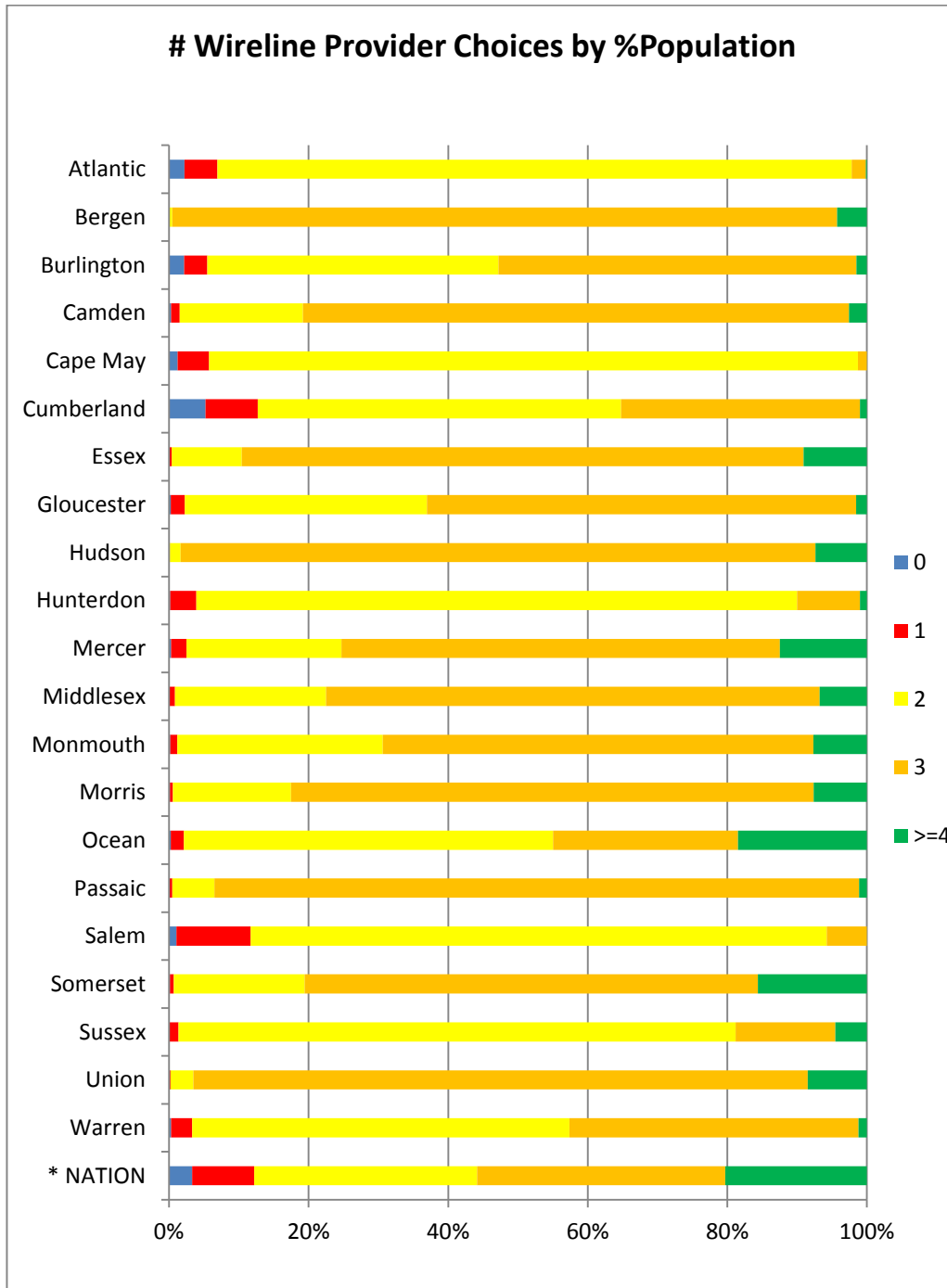
Maximum Advertised Downstream Speed

- < 6 mbps
- 6 mbps to 25 mbps
- 25 mbps to 100 mbps
- 100 mbps to 1 gbps
- >1 gbps

Note: Combined Wireline & Wireless

Number of Providers Available

Number of Providers



Legend

Broadband Information

Provider Count

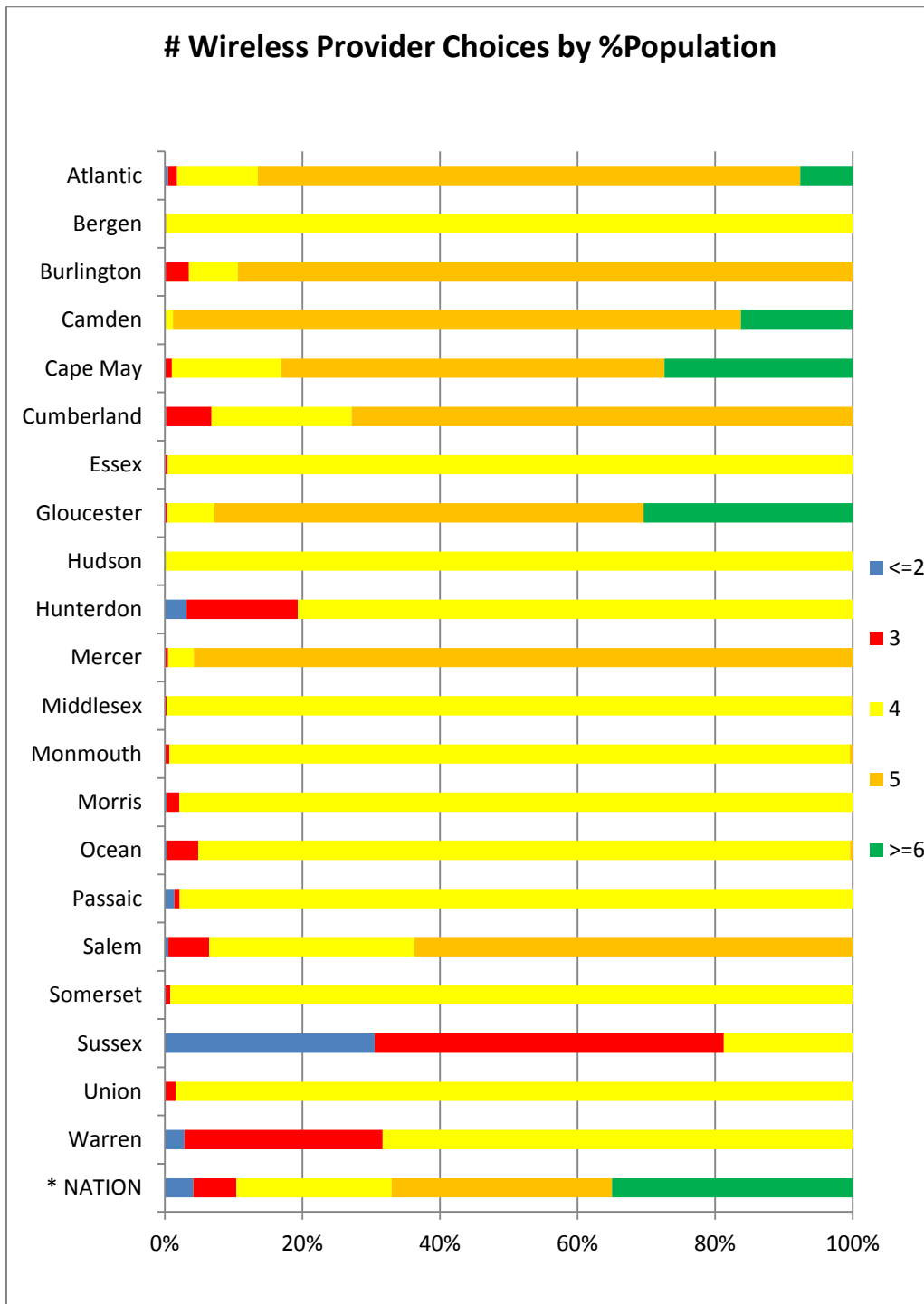
- 1
- 2
- 3 - 4
- 5 - 6
- 7 - 10

Note: Combined Wireline & Wireless

Number of Providers Available

County	0	1	2	3	>=4
Atlantic	2.2%	4.7%	90.9%	2.1%	0.1%
Bergen	0.0%	0.0%	0.5%	95.3%	4.3%
Burlington	2.2%	3.3%	41.7%	51.3%	1.5%
Camden	0.3%	1.3%	17.6%	78.3%	2.6%
Cape May	1.2%	4.5%	93.0%	1.3%	0.0%
Cumberland	5.2%	7.5%	52.1%	34.2%	1.0%
Essex	0.0%	0.4%	10.0%	80.5%	9.1%
Gloucester	0.2%	2.0%	34.7%	61.5%	1.5%
Hudson	0.0%	0.1%	1.5%	91.0%	7.4%
Hunterdon	0.2%	3.7%	86.1%	9.0%	1.0%
Mercer	0.3%	2.3%	22.2%	62.9%	12.5%
Middlesex	0.1%	0.7%	21.7%	70.7%	6.8%
Monmouth	0.2%	1.0%	29.4%	61.7%	7.7%
Morris	0.1%	0.4%	16.9%	74.9%	7.6%
Ocean	0.3%	1.9%	52.9%	26.5%	18.5%
Passaic	0.0%	0.4%	6.1%	92.4%	1.1%
Salem	1.1%	10.7%	82.5%	5.8%	0.0%
Somerset	0.1%	0.6%	18.7%	65.0%	15.6%
Sussex	0.0%	1.3%	79.9%	14.3%	4.5%
Union	0.0%	0.2%	3.3%	88.0%	8.5%
Warren	0.3%	3.0%	54.1%	41.4%	1.2%
* NATION	3.3%	8.9%	32.0%	35.6%	20.3%

Number of Providers Available

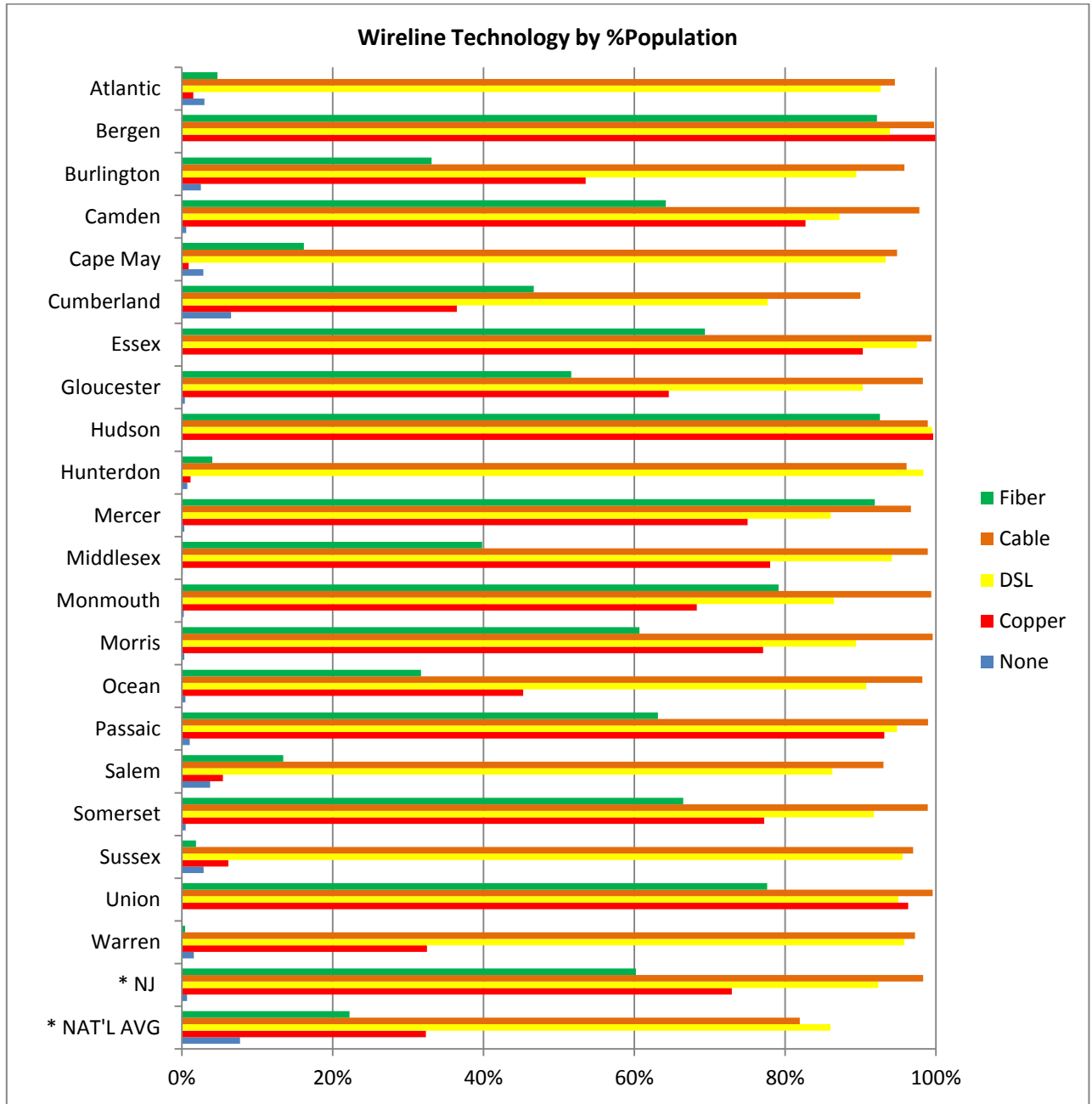


Number of Providers Available

County	<=2	3	4	5	>=6
Atlantic	0.5%	1.3%	11.8%	78.9%	7.6%
Bergen	0.0%	0.2%	99.8%	0.0%	0.0%
Burlington	0.1%	3.3%	7.1%	89.4%	0.0%
Camden	0.0%	0.0%	1.2%	82.6%	16.3%
Cape May	0.0%	1.0%	15.9%	55.7%	27.4%
Cumberland	0.2%	6.6%	20.4%	72.9%	0.0%
Essex	0.0%	0.4%	99.6%	0.0%	0.0%
Gloucester	0.0%	0.4%	6.8%	62.4%	30.4%
Hudson	0.0%	0.0%	100.0%	0.0%	0.0%
Hunterdon	3.2%	16.2%	80.7%	0.0%	0.0%
Mercer	0.0%	0.4%	3.8%	95.8%	0.0%
Middlesex	0.0%	0.2%	99.6%	0.2%	0.0%
Monmouth	0.0%	0.6%	99.0%	0.4%	0.0%
Morris	0.2%	1.9%	97.9%	0.0%	0.0%
Ocean	0.3%	4.6%	94.8%	0.4%	0.0%
Passaic	1.4%	0.7%	97.9%	0.0%	0.0%
Salem	0.5%	5.9%	29.8%	63.8%	0.0%
Somerset	0.0%	0.8%	99.2%	0.0%	0.0%
Sussex	30.5%	50.8%	18.7%	0.0%	0.0%
Union	0.0%	1.6%	98.5%	0.0%	0.0%
Warren	2.8%	28.9%	68.3%	0.0%	0.0%
* NATION	4.1%	6.3%	22.6%	32.1%	35.0%

Broadband Technology Available

Broadband Technology Available – Wireline - Overview



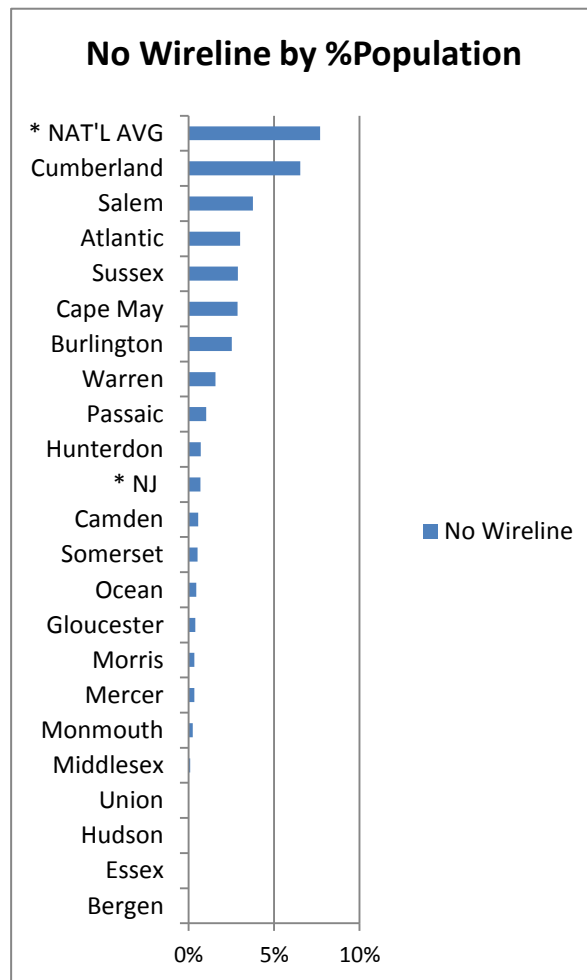
Broadband Technology Available

County	None	Copper	DSL	Cable	Fiber
Atlantic	3.0%	1.5%	92.7%	94.6%	4.7%
Bergen	0.0%	99.9%	93.9%	99.8%	92.2%
Burlington	2.5%	53.6%	89.5%	95.8%	33.1%
Camden	0.6%	82.7%	87.2%	97.8%	64.2%
Cape May	2.9%	0.9%	93.3%	94.9%	16.2%
Cumberland	6.5%	36.5%	77.7%	90.0%	46.7%
Essex	0.0%	90.3%	97.5%	99.4%	69.4%
Gloucester	0.4%	64.6%	90.3%	98.3%	51.7%
Hudson	0.0%	99.6%	99.5%	98.9%	92.6%
Hunterdon	0.7%	1.2%	98.3%	96.1%	4.0%
Mercer	0.3%	75.0%	86.1%	96.7%	91.9%
Middlesex	0.1%	78.0%	94.2%	98.9%	39.8%
Monmouth	0.2%	68.3%	86.5%	99.4%	79.2%
Morris	0.3%	77.1%	89.4%	99.6%	60.7%
Ocean	0.5%	45.3%	90.8%	98.2%	31.7%
Passaic	1.0%	93.2%	94.9%	99.0%	63.1%
Salem	3.8%	5.5%	86.3%	93.1%	13.5%
Somerset	0.5%	77.2%	91.8%	98.9%	66.5%
Sussex	2.9%	6.2%	95.6%	97.0%	1.9%
Union	0.0%	96.4%	95.1%	99.6%	77.6%
Warren	1.6%	32.5%	95.8%	97.2%	0.5%
* NAT'L AVG	7.7%	32.4%	86.0%	82.0%	22.2%
* NJ	0.7%	73.0%	92.4%	98.3%	60.2%

No Wireline Available

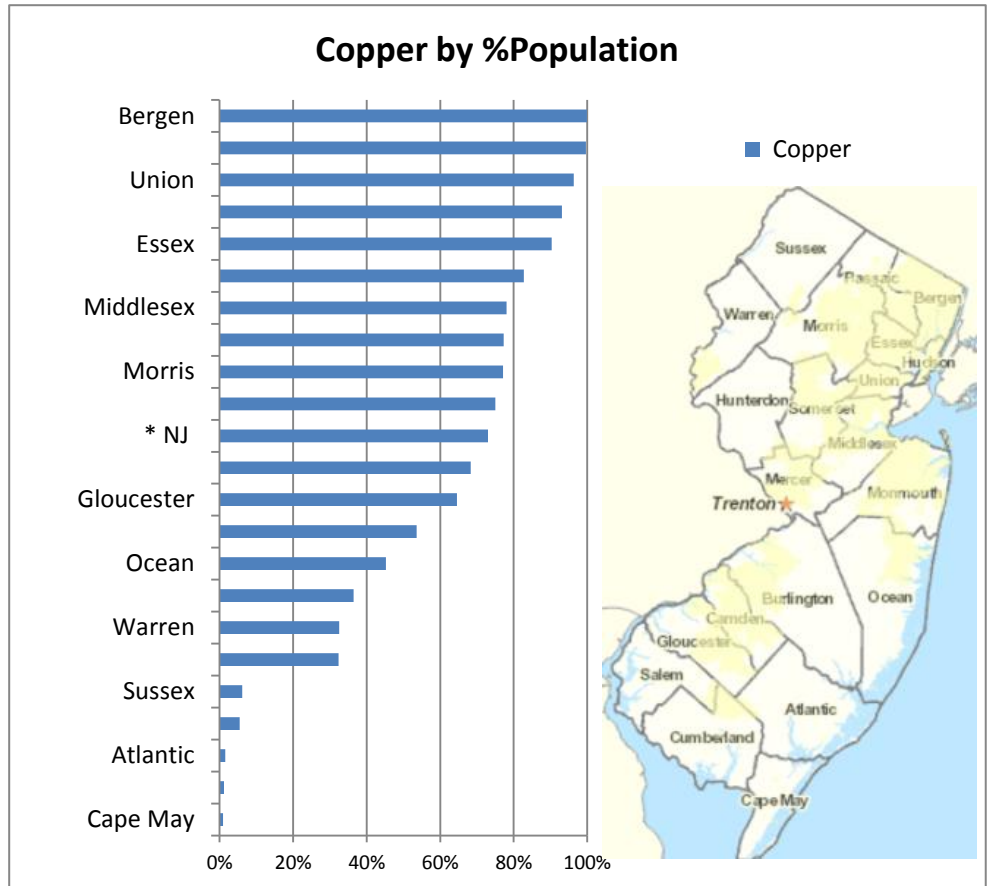
Broadband Technology Available – Wireline - Drilldown

County	No Wireline
* NAT'L AVG	7.7%
Cumberland	6.5%
Salem	3.8%
Atlantic	3.0%
Cape May	2.9%
Sussex	2.9%
Burlington	2.5%
Warren	1.6%
Passaic	1.0%
Hunterdon	0.7%
* NJ	0.7%
Camden	0.6%
Somerset	0.5%
Ocean	0.5%
Gloucester	0.4%
Morris	0.3%
Mercer	0.3%
Monmouth	0.2%
Middlesex	0.1%
Union	0.0%
Hudson	0.0%
Essex	0.0%
Bergen	0.0%

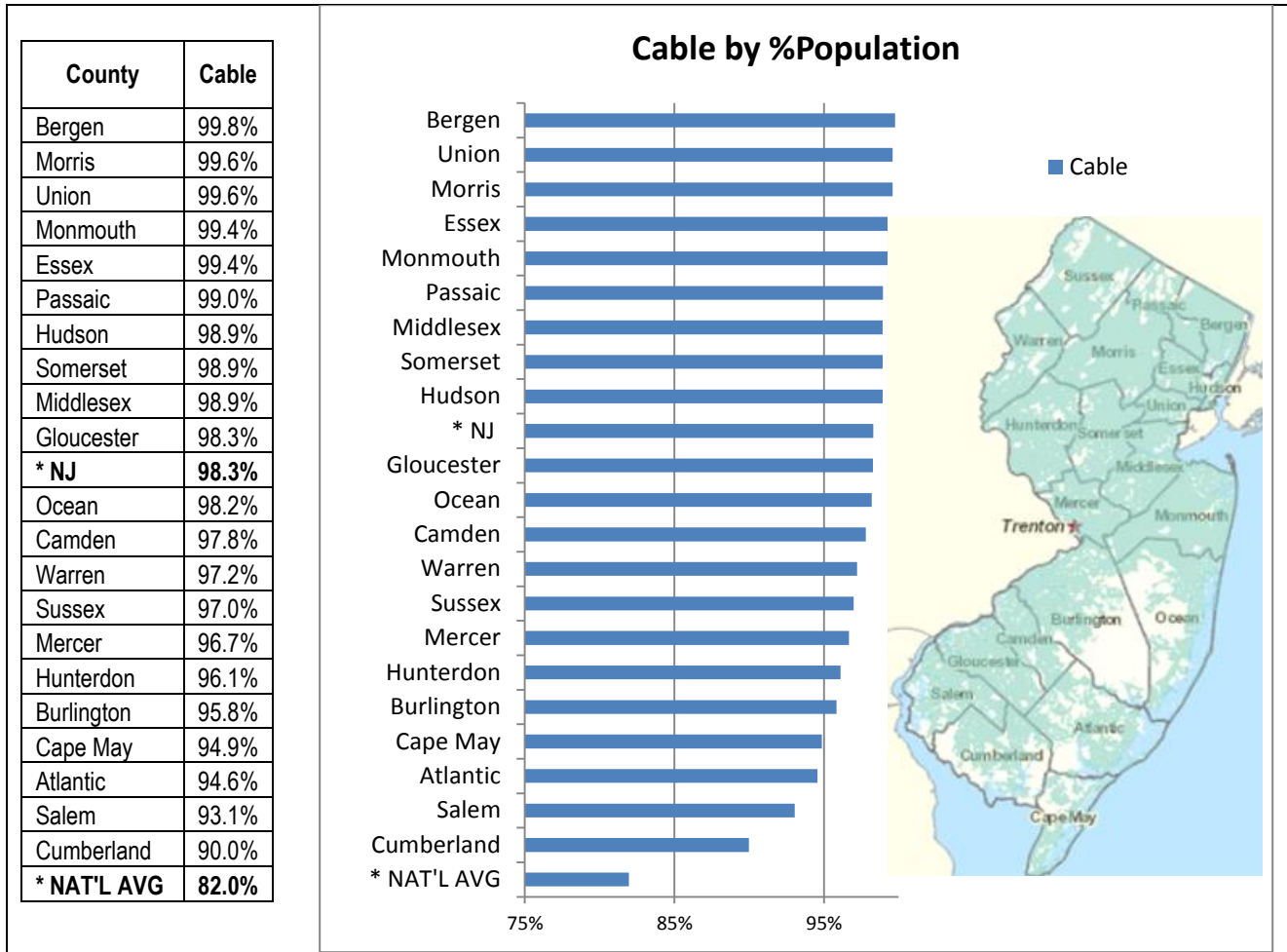


Copper Available

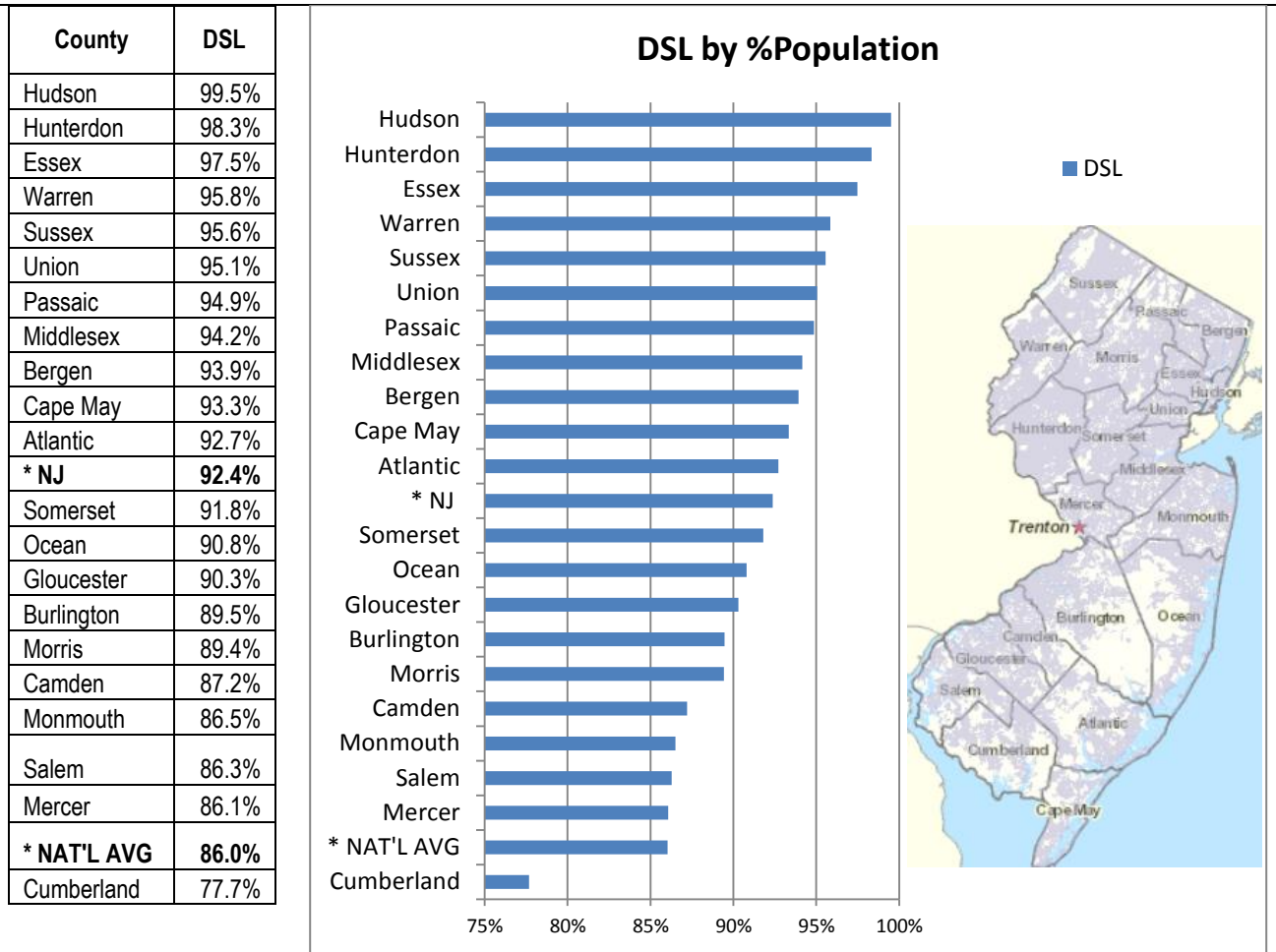
County	Copper
Bergen	99.9%
Hudson	99.6%
Union	96.4%
Passaic	93.2%
Essex	90.3%
Camden	82.7%
Middlesex	78.0%
Somerset	77.2%
Morris	77.1%
Mercer	75.0%
* NJ	73.0%
Monmouth	68.3%
Gloucester	64.6%
Burlington	53.6%
Ocean	45.3%
Cumberland	36.5%
Warren	32.5%
* NAT'L AVG	32.4%
Sussex	6.2%
Salem	5.5%
Atlantic	1.5%
Hunterdon	1.2%
Cape May	0.9%



Cable Available

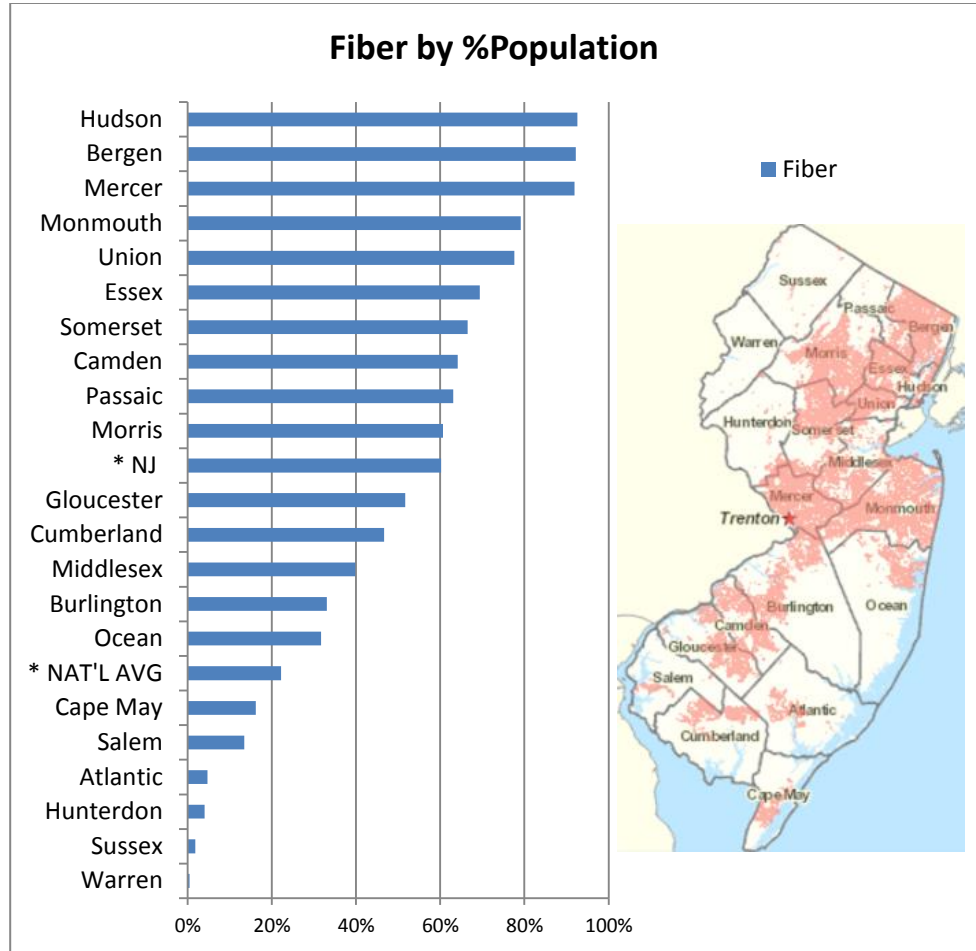


DSL Available



Fiber Available

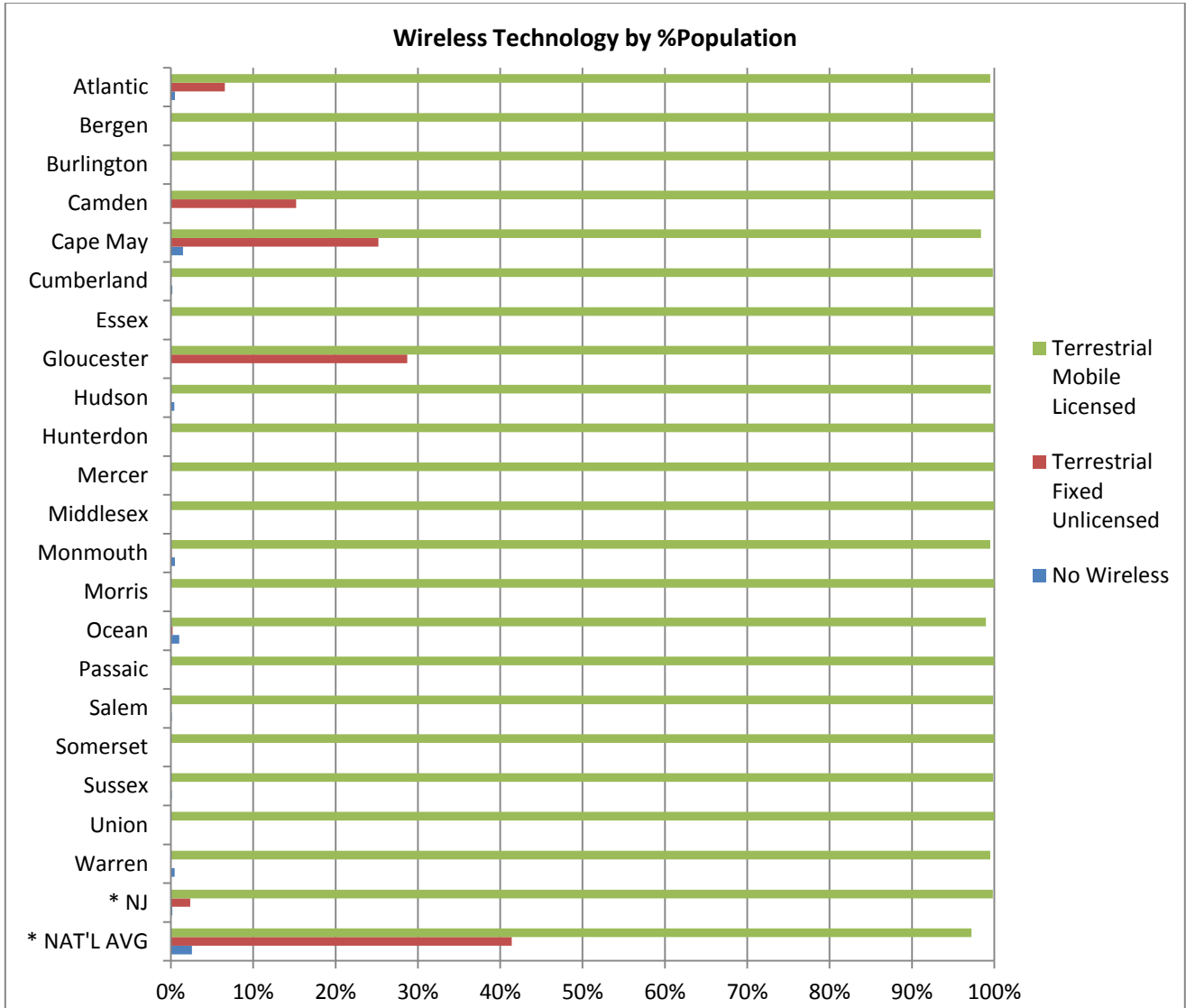
County	Fiber
Warren	0.5%
Sussex	1.9%
Hunterdon	4.0%
Atlantic	4.7%
Salem	13.5%
Cape May	16.2%
* NAT'L AVG	22.2%
Ocean	31.7%
Burlington	33.1%
Middlesex	39.8%
Cumberland	46.7%
Gloucester	51.7%
* NJ	60.2%
Morris	60.7%
Passaic	63.1%
Camden	64.2%
Somerset	66.5%
Essex	69.4%
Union	77.6%
Monmouth	79.2%
Mercer	91.9%
Bergen	92.2%
Hudson	92.6%



Broadband Technology Available – Wireless - Overview

Note: There is no Terrestrial Fixed Licensed technology in NJ - National Average is 18.6%

Wireless Available



Terrestrial Mobile Licensed



Terrestrial Fixed Unlicensed

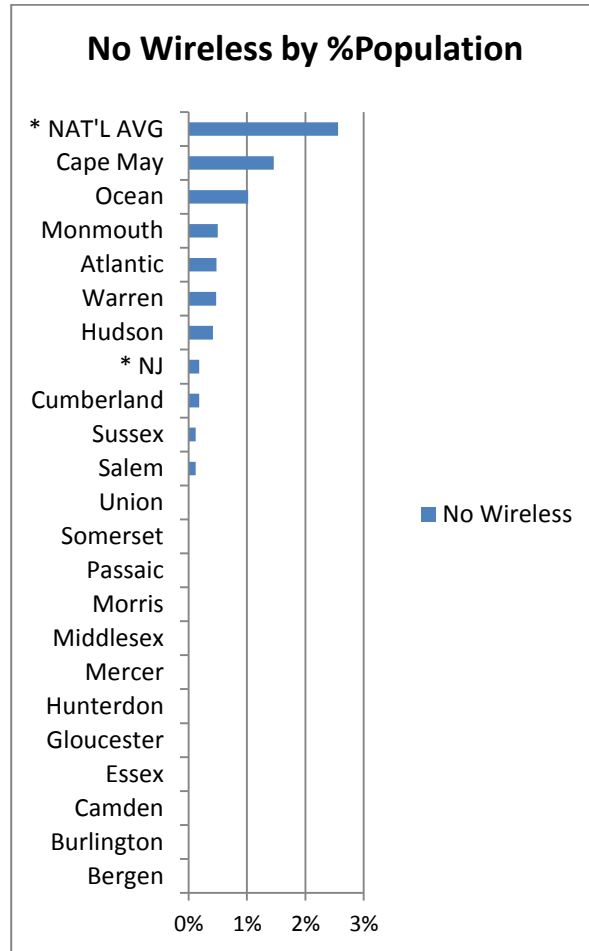
Wireless Available

County	No Wireless	Terrestrial Fixed Unlicensed	Terrestrial Mobile Licensed
Atlantic	0.5%	6.5%	99.5%
Bergen	0.0%	0.0%	100.0%
Burlington	0.0%	0.0%	100.0%
Camden	0.0%	15.2%	100.0%
Cape May	1.5%	25.2%	98.4%
Cumberland	0.2%	0.0%	99.8%
Essex	0.0%	0.0%	100.0%
Gloucester	0.0%	28.7%	100.0%
Hudson	0.4%	0.0%	99.6%
Hunterdon	0.0%	0.0%	100.0%
Mercer	0.0%	0.0%	100.0%
Middlesex	0.0%	0.0%	100.0%
Monmouth	0.5%	0.1%	99.5%
Morris	0.0%	0.0%	100.0%
Ocean	1.0%	0.2%	99.0%
Passaic	0.0%	0.0%	100.0%
Salem	0.1%	0.0%	99.9%
Somerset	0.0%	0.0%	100.0%
Sussex	0.1%	0.0%	99.9%
Union	0.0%	0.0%	100.0%
Warren	0.5%	0.0%	99.5%
* NJ	0.2%	2.3%	99.8%
* NAT'L AVG	2.6%	41.4%	97.2%

Wireless Available

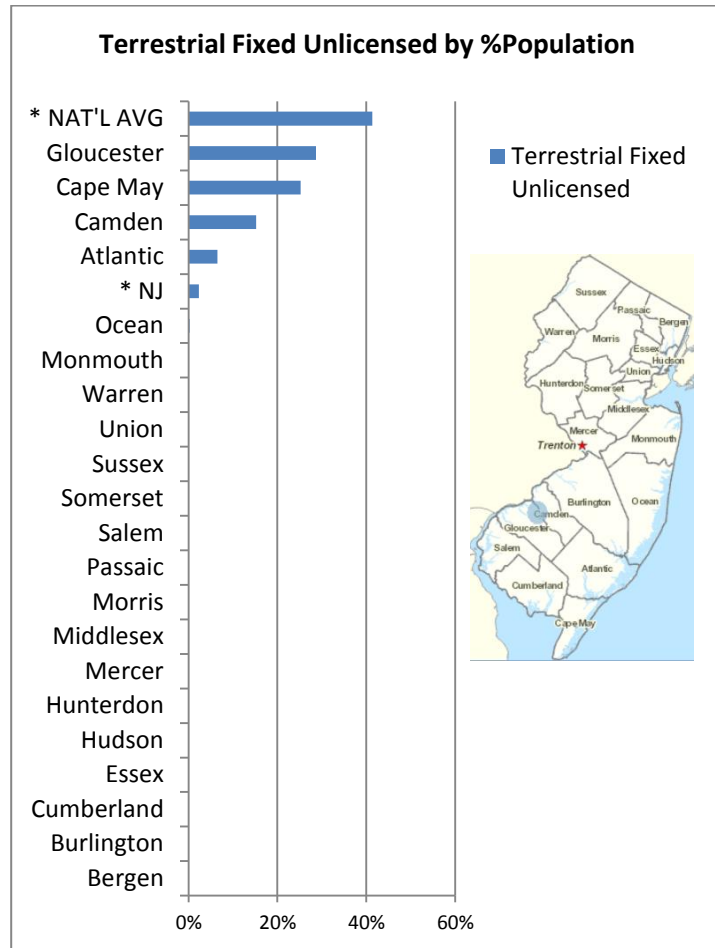
Broadband Technology Available – Wireless - Drilldown

County	No Wireless
Bergen	0.0%
Burlington	0.0%
Camden	0.0%
Essex	0.0%
Gloucester	0.0%
Hunterdon	0.0%
Mercer	0.0%
Middlesex	0.0%
Morris	0.0%
Passaic	0.0%
Somerset	0.0%
Union	0.0%
Salem	0.1%
Sussex	0.1%
Cumberland	0.2%
* NJ	0.2%
Hudson	0.4%
Warren	0.5%
Atlantic	0.5%
Monmouth	0.5%
Ocean	1.0%
Cape May	1.5%
* NAT'L AVG	2.6%



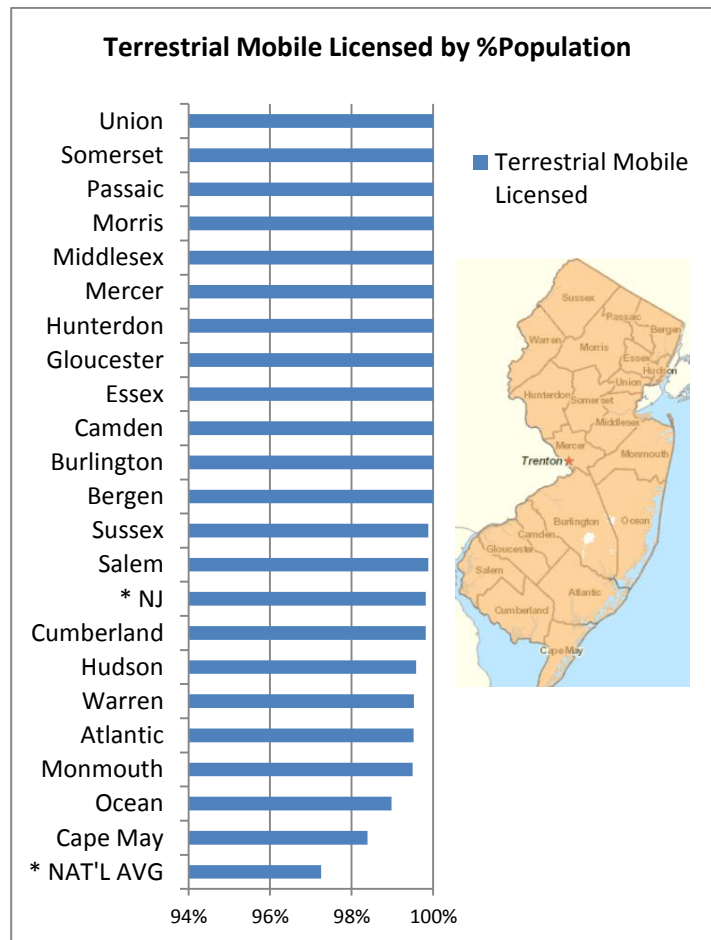
Terrestrial Fixed Available

County	Terrestrial Fixed Unlicensed
Bergen	0.0%
Burlington	0.0%
Cumberland	0.0%
Essex	0.0%
Hudson	0.0%
Hunterdon	0.0%
Mercer	0.0%
Middlesex	0.0%
Morris	0.0%
Passaic	0.0%
Salem	0.0%
Somerset	0.0%
Sussex	0.0%
Union	0.0%
Warren	0.0%
Monmouth	0.1%
Ocean	0.2%
* NJ	2.3%
Atlantic	6.5%
Camden	15.2%
Cape May	25.2%
Gloucester	28.7%
* NAT'L AVG	41.4%

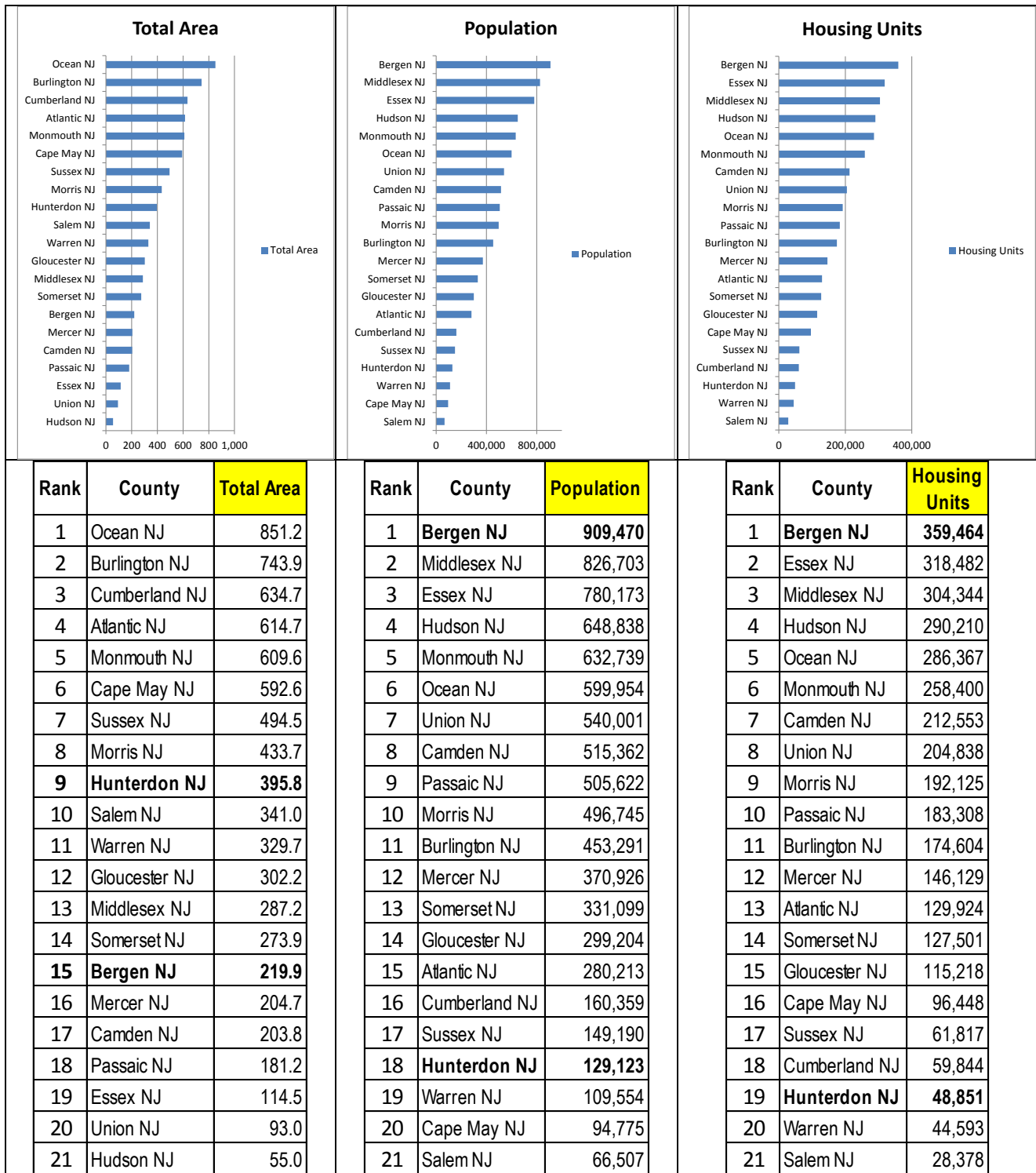


Terrestrial Mobile Available

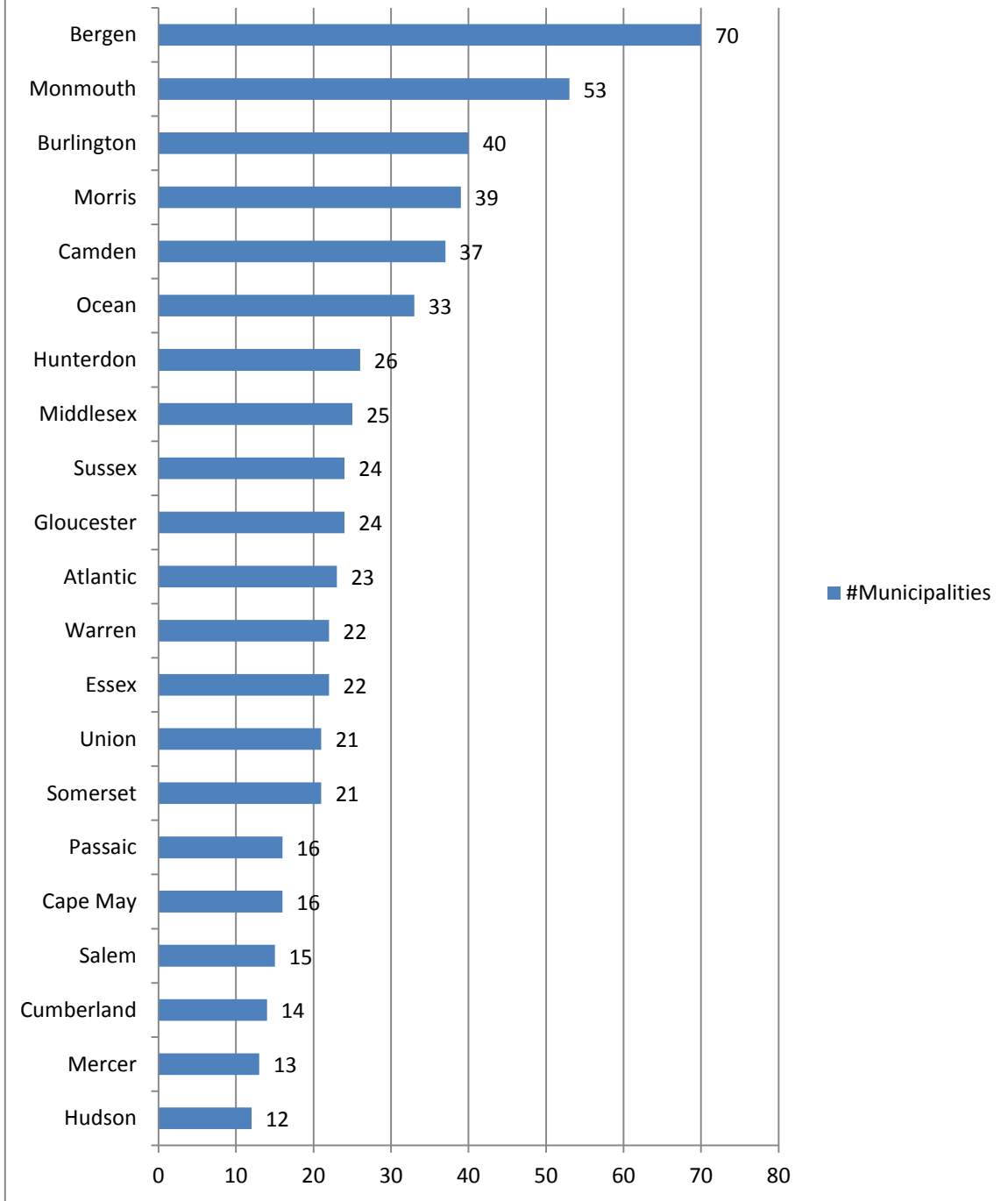
County	Terrestrial Mobile Licensed
* NAT'L AVG	97.2%
Cape May	98.4%
Ocean	99.0%
Monmouth	99.5%
Atlantic	99.5%
Warren	99.5%
Hudson	99.6%
Cumberland	99.8%
* NJ	99.8%
Salem	99.9%
Sussex	99.9%
Bergen	100.0%
Burlington	100.0%
Camden	100.0%
Essex	100.0%
Gloucester	100.0%
Hunterdon	100.0%
Mercer	100.0%
Middlesex	100.0%
Morris	100.0%
Passaic	100.0%
Somerset	100.0%
Union	100.0%



Basic Demographics



#Municipalities per County



County 	Count of Municipality
Atlantic	23
Bergen	70
Burlington	40
Camden	37
Cape May	16
Cumberland	14
Essex	22
Gloucester	24
Hudson	12
Hunterdon	26
Mercer	13
Middlesex	25
Monmouth	53
Morris	39
Ocean	33
Passaic	16
Salem	15
Somerset	21
Sussex	24
Union	21
Warren	22
Grand Total	566

Source Data Overview

Chart Configurations:

- 15 charts showing county-to-county comparisons, along with a calculation for NJ as a whole and a national metric across other states.
 - Three basic views, each including drill downs on wireless vs wireline:
 - Max Advertised Download Speed
 - Number of Providers
 - Technologies Available
 - Base metric is % population
- 4 charts with basic demographic information on each county to provide a rough context to the provider analysis.

Source of Data:

- All data was downloaded from the National Broadband Map web site, except the municipality data. See <http://www.broadbandmap.gov/about/technical-overview/post-processing-data> for details and additional information on processes used to transform raw data into the format displayed on the National Broadband Map.
- All GIS maps are from the NJ State Broadband Map web site (http://njgin.state.nj.us/oit/gis/OIT_BroadbandMapping/)
- Broadband data and maps are all based on the Fall 2013 submission.

Notes:

- The national average metric is an average of averages, where the NJ and national metrics are a pure ratio (as are the county level metrics).
- The underlying spreadsheet includes analysis using %housing unit (%HU). Most of the time %pop figures were nearly the same as %HU.
- Provider analysis based on %pop or %HU has a common significant disadvantage for public / community planners, which is that broadband may be required in areas that are sparsely populated, such as:
 - Industrial Parks
 - Large Commercial Zones
 - Agricultural Areas (e.g., Farms, Livestock)
 - Areas Reserved for Hunting, Fishing, Camping, etc.
 - Preserved Lands
 - Etc.

Sources by Chart

Category	Chart Name	Source
Download Speeds Available	Wireline Download Speed by %Population	<p>National Broadband Map Summary Report: http://www.broadbandmap.gov/summarize Parameters: Nation, NJ State, and 21 NJ Counties Metrics: Wireline Download Speed >6m, >100m, >1g Calculations: Subtract across metrics to create discrete buckets</p>
	Wireless Download Speed by %Population	<p>National Broadband Map Summary Report: http://www.broadbandmap.gov/summarize Parameters: Nation, NJ State, and 21 NJ Counties Metrics: Wireless Download Speed >3m, >10m, >25m Calculations: Subtract across metrics to create discrete buckets</p>
	Combined Download Speed by %Population	<p>National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ, Rank State within Nation Metrics: Download Speeds >.768, >6, >100, >1000 Baseline Metrics: %Population for chart, %Housing Unit for analysis only Calculations: Subtract across metrics to create discrete buckets ; Average across states to create national average</p>
Number of Providers	# Wireline Provider Choices by %Population	<p>National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ Metrics: Wireline # Providers 0, >= 1, >= 2, >=3, >=4 Baseline Metrics: %Population for chart, %Housing Unit for analysis only Calculations: Subtract across metrics to create discrete buckets</p> <p>National Broadband Map Summary Report: http://www.broadbandmap.gov/summarize Parameters: Nation Metrics: Wireline # Providers 0, 1, 2, 3, 4, 5, 6, 7, >=8 Calculations: Add 4, 5, 6, 7, >=8 for >=4</p>
	# Wireless Provider Choices by %Population	<p>National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ Metrics: Wireless # Providers 0, >=1,>=2, >= 3, >= 4, >=5, >=6 Baseline Metrics: %Population for chart, %Housing Unit for analysis only Calculations: Combine 0, >=1, >=2 for <=2 ; Subtract across metrics to create discrete buckets</p> <p>National Broadband Map Summary Report: http://www.broadbandmap.gov/summarize Parameters: Nation Metrics: Wireless # Providers 0, 1, 2, 3, 4, 5, 6, 7, >=8 Calculations: Add 0, 1, 2 for <=2 ; Add 6, 7, >=8 for >=6</p>

Category	Chart Name	Source
Broadband Technology Available - Wireline	Wireline Technology by %Population (Overview)	National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ, Rank State within Nation Metrics: Wireline Technology Any, Copper, Cable, DSL, Fiber, Electric Power Baseline Metrics: %Population for chart, %Housing Unit for analysis only Calculations: None = 1-Any ; Determined no Electric Power in NJ ; Average across states to create national average
	No Wireline by %Population	
	Copper by %Population	
	Cable by %Population	
	DSL by %Population	
	Fiber by %Population	
Broadband Technology Available - Wireless	Wireless Technology by %Population (Overview)	National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ, Rank State within Nation Metrics: Wireless Technology Any, Terrestrial Fixed Unlicensed, Terrestrial Fixed Licensed, Terrestrial Mobile Licensed Baseline Metrics: %Population for chart, %Housing Unit for analysis only Calculations: None = 1-Any ; Determined no Terrestrial Fixed Licensed in NJ ; Average across states to create national average
	No Wireless by %Population	
	Terrestrial Fixed Unlicensed by %Population	
	Terrestrial Mobile Licensed by %Population	
Basic Demographics	Total Area	National Broadband Map Rank Report: http://www.broadbandmap.gov/rank Parameters: Rank County within NJ Metrics: Population Demographic for Total Area, Population, and Housing Units
	Population	
	Housing Units	
	#Municipalities per County	ACS (also found at http://slic.njstatelib.org/NJ_Information/Digital_Collections/digidox4.php and http://en.wikipedia.org/wiki/List_of_municipalities_in_New_Jersey)

Data Summary Limitations

As part of this data analysis report, we have attempted to summarize the data to make it more comprehensible to public planners and other potentially interested stakeholders and policy makers and community leaders. However, there are challenges in whichever way the data is summarized and there are several caveats that you should be aware of about the data so it is not misinterpreted.

A. Normalizing by geographic area can result in poor representation of the coverage.

1. One issue has to deal with the large tracts of undeveloped land. The census blocks used as a basis for data collection cover these areas, including coastal regions where the census blocks extend out into the water and the protected Pine Barrens. Providers generally do not offer coverage in these areas, but there are no potential users either. We adjusted for this by omitting census blocks with zero population. There is a potential for overcorrection with this approach, because there are other reasons for a zero-population census block, such as an industrial area. We did not have reliable data that would allow us to differentiate these types of areas.

2. Another issue stems from the fact that the NTIA specifies that for large census blocks (> 2 square miles) providers should submit coverage at the street level. We converted this street-segment data to an area with the rule that if any street in a census block is covered, the entire census block is covered. This rule clearly overstates coverage. We chose this based on simplicity, but the more complicated approaches were not likely to be significantly more accurate.

B. Summarizing the counts of providers in speed tiers over a county does not necessarily reflect the competitive environment.

1. An individual provider may offer service at more than one speed tier in a county. For example, a provider may have cable modem service in some areas and fiber service in others. An individual provider might also offer service under separate subsidiaries, with different FCC Registration numbers. In each case, our process counts these occurrences separately.

2. Two providers offering the same speed tier within a single county may not compete with each other. For example, provider A might have the cable franchise in one town, while provider B has the franchise in a neighboring town in the same county. They both get counted, but that does not imply that any user could choose between them.

C. We performed a cross-check with the data as available through the National Broadband map as a limited validation of the results.

1. Images of the resulting maps from the national site are attached, using different speed threshold levels. Note, for example, the large holes that are present even down to 768kbps, which is a reflection of item A.1. above, and also the sparse nature of the coverage at over 1Gbps.

2. The National Map has an alternate means of counting providers in a county that calculates the fraction of the population within a county that can select among various numbers of providers. For example, in Somerset County, 10.2% of the population can select among 2 wireline providers, 56.4% can select among three, and so on. (You can see a sample here: <http://www.broadbandmap.gov/summarize/state/new-jersey/county/somerset>)

3. Note that the national map is using data from the April 2013 submission, and should be updated soon to use the data from the October 2013 submission.