



Hurricane Helene Situation Report for Oct 5, 2024 at 19:00 EDT

Data last updated on Oct 7, 2024 at 00:00 EDT

01 Movement

02 Vulnerability

Summary

ASHEVILLE, NC AREA: As of Monday, October 7th the official death toll from Hurricane Helene stands at 232 people, with dozens still reported missing. The greatest impact of the storm was in Asheville, NC where power remains out for over 74,000 customers, water systems have been significantly disrupted, and mobile communications networks have been relatively slow to come back online at full functionality.

According to population dynamics data from Data for Good at Meta, the population of the city of Asheville continues to increase back towards pre-storm baseline. As of the evening of Saturday, October 5th the population of Asheville, based on the movement of the Facebook user base, had recovered to 72% of pre-storm totals. Excluding children under the age of 18, the Facebook user base covers roughly 21% of the total population of Asheville, making it reasonably representative of the total population. Total current population in Asheville is 95% likely to be between 67,000 and 69,000 people. Areas which may still not be fully recorded based on network outage are a confounding factor in these calculations.

Heat maps of population change around Asheville indicate a significant presence of individuals outside the administrative boundaries of local municipalities throughout Buncombe County. Given the high rate of power outages throughout this area and the high rate of power-dependent medical device usage, a medical shelter has been set up at 10 Genevive Cir in Asheville to support power-dependent medical needs.

<https://www.buncombecounty.org/countycenter/news-detail.aspx?id=21749>

Nearby towns including Lake Lure, Hooper's Creek, and Montreat remain more than 50% below baseline population, within minimal day-to-day change.

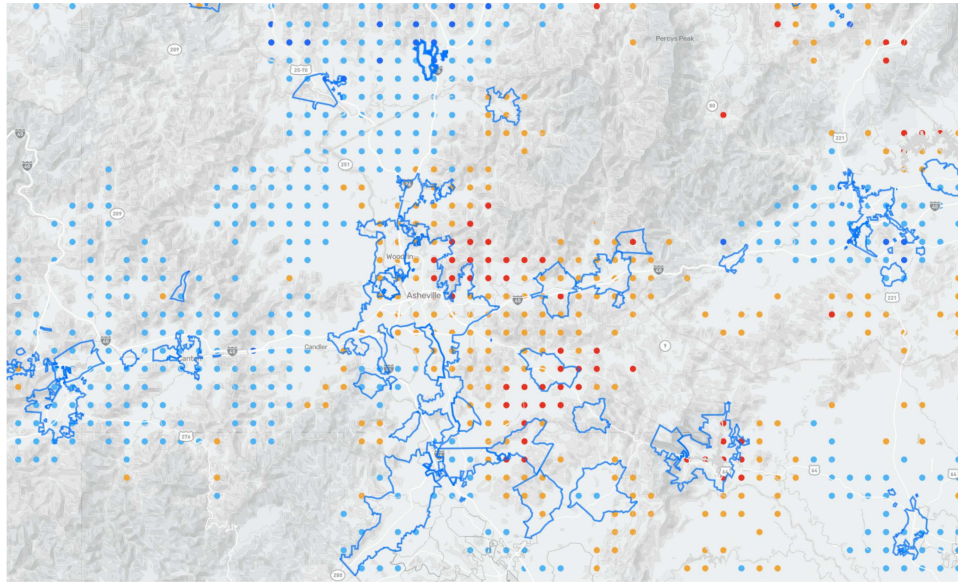
Within Buncombe County, several towns near Asheville have registered significant population increases above baseline, including:

- Marion: +35%
- Salem: +35%
- Morganton: +25%
- Valdese: +17%
- Drexel: +15%

Avery and Mitchell Counties currently register a higher percentage decrease of population than Buncombe. The baseline Facebook user base in Avery in particular is considered highly representative of the total, measuring over 26% of the Census population.

MOVEMENT

% Pop. Density Change on Oct 5, 2024 at 19:00 EDT



Facebook Mobility Data

- 50%+
- 50 to -10%
- 10 to 50%
- 50%+

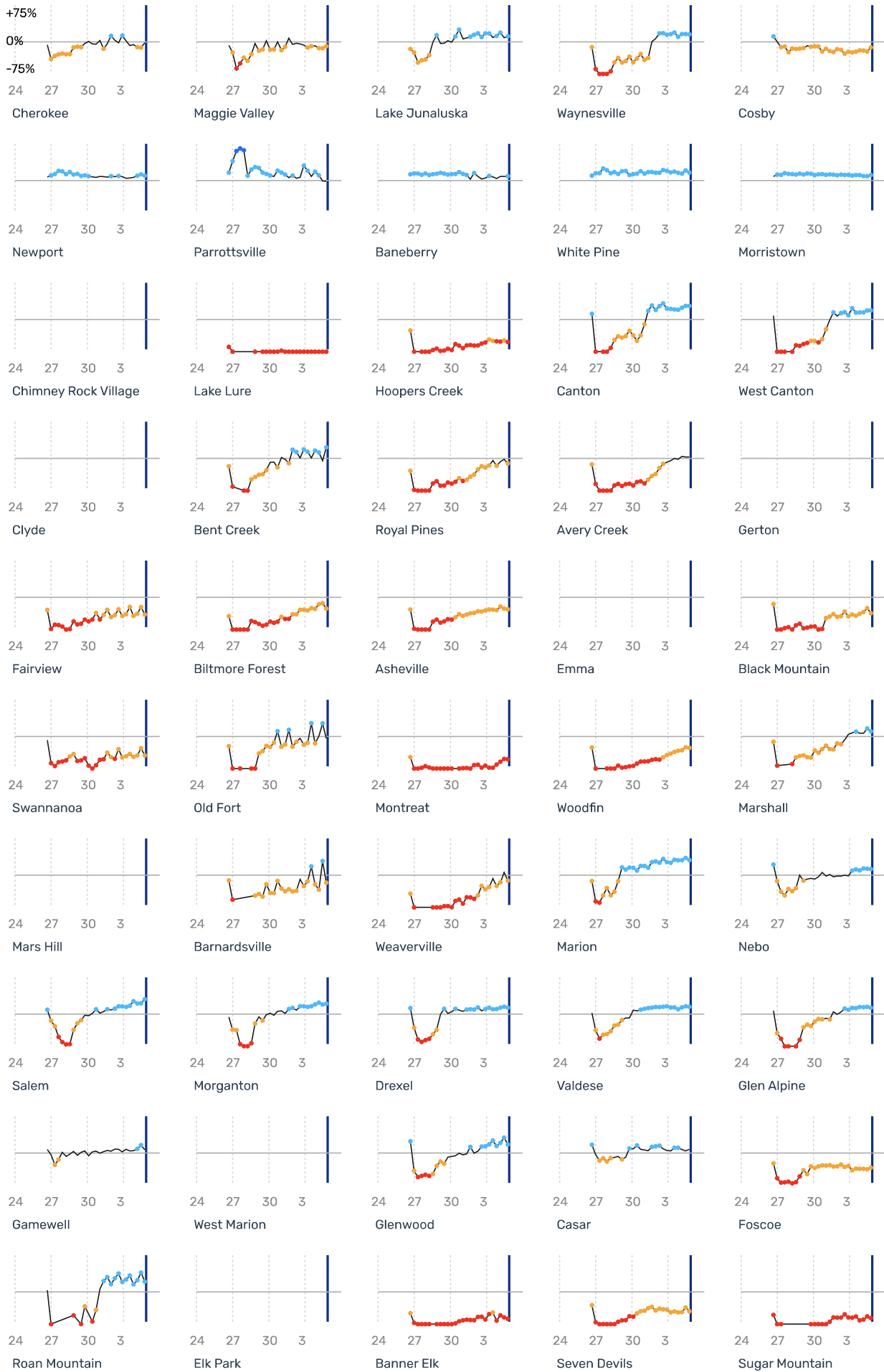
% Pop. Density Change on Oct 5, 2024 at 19:00 EDT with place selections.

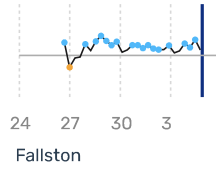
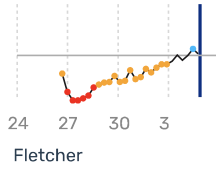
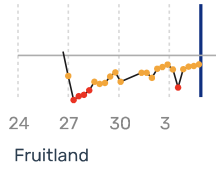
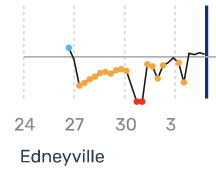
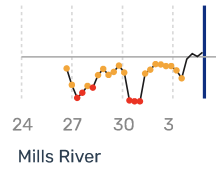
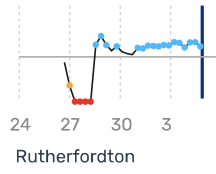
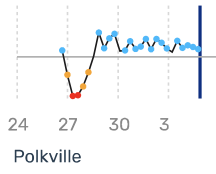
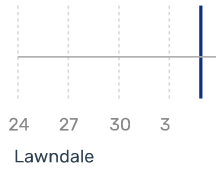
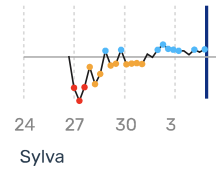
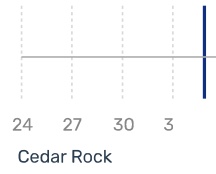
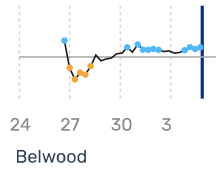
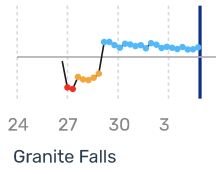
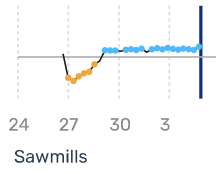
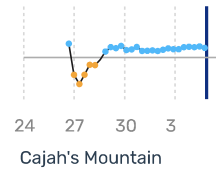
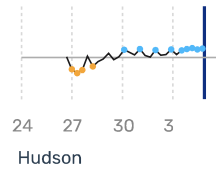
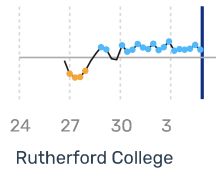
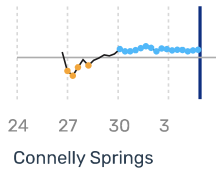
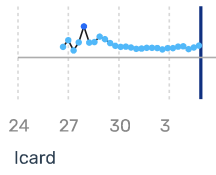
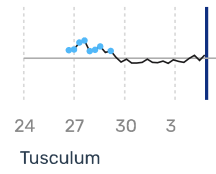
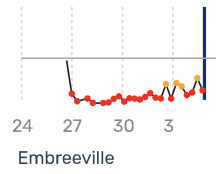
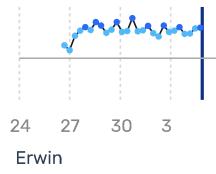
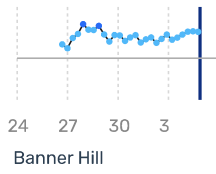
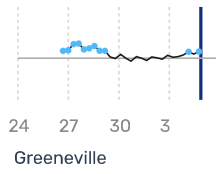
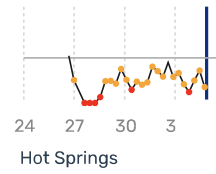
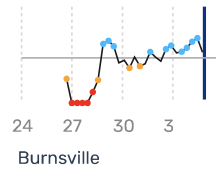
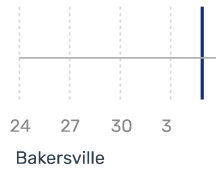
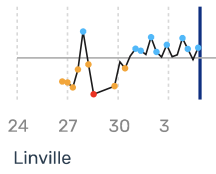
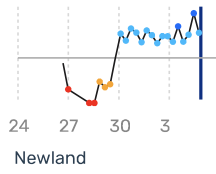
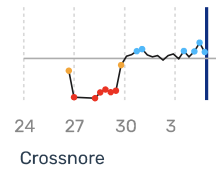
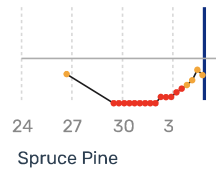
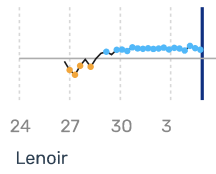
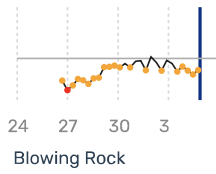
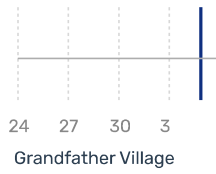
Population Density on Oct 5, 2024 at 19:00 EDT

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Unicoi	3200	4274	34%	N/A
Madison	3019	4028	33%	N/A
Washington	26702	32114	20%	N/A
Carter	11943	14022	17%	N/A
Cleveland	20492	24035	17%	N/A
Burke	18231	20924	15%	N/A
Greene	15124	17237	14%	N/A
Hamblen	15945	17978	13%	N/A
Caldwell	16242	18259	12%	N/A
Jefferson	14627	16428	12%	N/A
Haywood	13622	15135	11%	N/A
McDowell	9451	10313	9%	N/A
Cocke	8501	9179	8%	N/A
Rutherford	13629	14391	6%	N/A
Jackson	10910	11118	2%	N/A
Henderson	21767	22057	1%	N/A
Swain	4354	4276	-2%	N/A
Yancey	2122	2036	-4%	N/A
Watauga	9158	7754	-15%	N/A
Buncombe	49460	41126	-17%	N/A
Avery	4541	3523	-22%	N/A
Mitchell	1839	1139	-38%	N/A
Canton	479	631	32%	N/A
Bent Creek	213	268	26%	N/A
West Canton	157	191	22%	N/A
White Pine	628	747	19%	N/A
Waynesville	1812	2126	17%	N/A
Morristown	7115	8046	13%	N/A
Lake Junaluska	813	917	13%	N/A
Marshall	102	114	12%	N/A
Newport	1247	1393	12%	N/A
Baneberry	109	121	11%	N/A
Avery Creek	361	374	4%	N/A
Parrottsville	68	67	-1%	N/A
Cherokee	1976	1929	-2%	N/A
Old Fort	96	91	-5%	N/A
Maggie Valley	275	246	-10%	N/A
Cosby	227	197	-13%	N/A
Chimney Rock Village	N/A	N/A	N/A	N/A
Marion	998	1350	35%	N/A
Salem	442	596	35%	N/A
Morganton	2857	3560	25%	N/A
Valdese	870	1020	17%	N/A
Drexel	462	533	15%	N/A

Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Glen Alpine	175	201	15%	N/A
Nebo	229	262	14%	N/A
Gamewell	896	967	8%	N/A
Royal Pines	728	646	-11%	N/A
Weaverville	318	279	-12%	N/A
Barnardsville	52	43	-17%	N/A
Biltmore Forest	369	273	-26%	N/A
Woodfin	1348	987	-27%	N/A
Asheville	16875	12211	-28%	N/A
Black Mountain	963	609	-37%	N/A
Swannanoa	620	344	-44%	N/A
Hoopers Creek	149	71	-52%	N/A
Lake Lure	626	107	-83%	N/A
Clyde	N/A	N/A	N/A	N/A
Gerton	N/A	N/A	N/A	N/A
Fairview	440	264	-40%	N/A
Emma	N/A	N/A	N/A	N/A
Montreat	115	54	-53%	N/A
Mars Hill	N/A	N/A	N/A	N/A
West Marion	N/A	N/A	N/A	N/A
Erwin	305	460	51%	N/A
Banner Hill	464	668	44%	N/A
Roan Mountain	158	197	24%	N/A
Icard	499	602	21%	N/A
Glenwood	102	123	20%	N/A
Rutherfordton	441	517	17%	N/A
Sawmills	972	1135	17%	N/A
Hudson	451	521	16%	N/A
Lenoir	3194	3655	14%	N/A
Greeneville	3288	3652	11%	N/A
Crossnore	59	65	11%	N/A
Casar	62	67	9%	N/A
Foscoe	399	264	-34%	N/A
Elk Park	N/A	N/A	N/A	N/A
Newland	92	131	42%	N/A
Linville	60	70	17%	N/A
Cajah's Mountain	262	306	17%	N/A
Belwood	200	232	16%	N/A
Granite Falls	267	309	16%	N/A
Rutherford College	127	145	14%	N/A
Connelly Springs	248	282	14%	N/A
Polkville	53	60	13%	N/A
Sylva	254	285	12%	N/A
Burnsville	200	219	10%	N/A
Fallston	66	72	9%	N/A

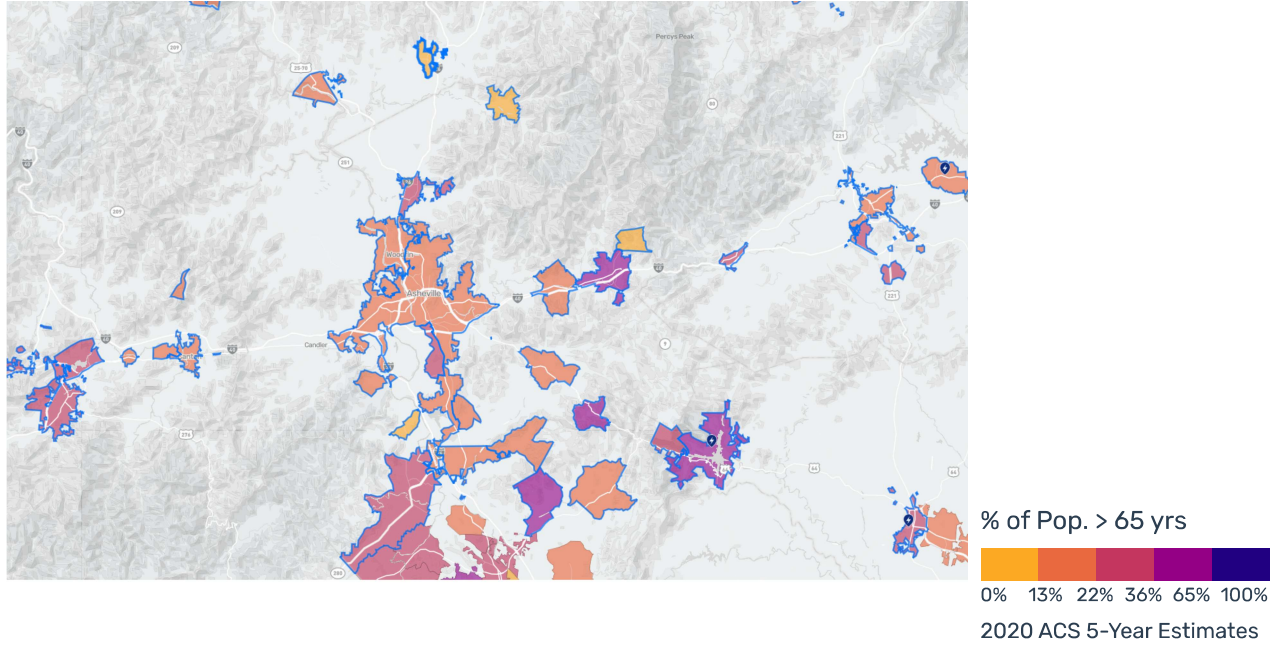
Location	Baseline Pop.	Current Crisis Pop.	Pop. Density vs. Baseline ▼	Confidence Level
Mills River	1287	1381	7%	N/A
Tusculum	487	512	5%	N/A
Edneyville	437	454	4%	N/A
Fletcher	1132	1163	3%	N/A
Fruitland	383	326	-15%	N/A
Blowing Rock	323	259	-20%	N/A
Spruce Pine	357	257	-28%	N/A
Seven Devils	145	80	-45%	N/A
Hot Springs	125	65	-48%	N/A
Sugar Mountain	241	95	-61%	N/A
Banner Elk	131	49	-62%	N/A
Grandfather Village	N/A	N/A	N/A	N/A
Bakersville	N/A	N/A	N/A	N/A
Embreeville	55	25	-54%	N/A
Cedar Rock	N/A	N/A	N/A	N/A
Lawndale	N/A	N/A	N/A	N/A





VULNERABILITY

Pop. > 65 yrs on Oct 5, 2024 at 19:00 EDT



Demographics

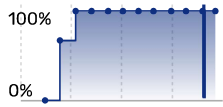
Location	Total Pop.	Pop. > 65 yrs	% of Pop. > 65 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Henderson	116,298	30,025	26%	N/A	N/A	10%	61,495	1523	0.0152
Yancey	17,870	4,601	26%	N/A	N/A	15%	6,529	349	0.0035
Mitchell	14,959	3,738	25%	N/A	N/A	12%	8,071	323	0.0032
Haywood	61,862	15,298	25%	N/A	N/A	12%	1,599	1235	0.0123
Unicoi	17,821	4,231	24%	N/A	N/A	17%	310	517	0.0052
Madison	21,608	4,817	22%	N/A	N/A	14%	1,202	339	0.0034
Avery	17,510	3,869	22%	N/A	N/A	11%	804	420	0.0042
Greene	69,077	15,124	22%	N/A	N/A	16%	N/A	1767	0.0177
Carter	56,452	12,270	22%	N/A	N/A	18%	N/A	1159	0.0116
Rutherford	66,741	14,333	21%	N/A	N/A	17%	8,942	635	0.0063
Cocke	35,797	7,608	21%	N/A	N/A	20%	3	885	0.0089
McDowell	45,402	9,327	21%	N/A	N/A	15%	12,781	765	0.0076
Caldwell	82,056	16,534	20%	N/A	N/A	14%	2,826	1419	0.0142
Burke	90,148	18,143	20%	N/A	N/A	18%	7,627	1315	0.0132
Buncombe	259,576	51,876	20%	N/A	N/A	11%	74,420	2948	0.0295
Jefferson	54,162	10,771	20%	N/A	N/A	13%	N/A	1072	0.0107
Jackson	43,435	8,622	20%	N/A	N/A	16%	611	524	0.0052
Swain	14,241	2,720	19%	N/A	N/A	17%	2	323	0.0032
Cleveland	97,765	18,083	18%	N/A	N/A	19%	3,813	1294	0.0129
Washington	128,874	23,429	18%	N/A	N/A	15%	110	2723	0.0272
Hamblen	64,479	11,671	18%	N/A	N/A	17%	10	1545	0.0155
Watauga	55,669	8,909	16%	N/A	N/A	22%	8,247	583	0.0058
Grandfather Village	74	42	57%	N/A	N/A	0%	N/A	N/A	N/A
Bakersville	706	312	44%	N/A	N/A	19%	N/A	N/A	N/A
Sugar Mountain	487	208	43%	N/A	N/A	6%	N/A	N/A	N/A
Lake Lure	1,634	683	42%	N/A	N/A	8%	660	N/A	N/A
Blowing Rock	1,149	480	42%	N/A	N/A	3%	N/A	N/A	N/A
Gerton	258	104	40%	N/A	N/A	9%	N/A	N/A	N/A
Salem	1,479	586	40%	N/A	N/A	26%	3	N/A	N/A
Black Mountain	8,177	3,199	39%	N/A	N/A	4%	N/A	N/A	N/A
Seven Devils	441	168	38%	N/A	N/A	4%	N/A	N/A	N/A
Fruitland	2,216	816	37%	N/A	N/A	8%	N/A	N/A	N/A
Cedar Rock	284	98	35%	N/A	N/A	2%	N/A	N/A	N/A
Glenwood	302	103	34%	N/A	N/A	0%	N/A	N/A	N/A
Chimney Rock Village	174	59	34%	N/A	N/A	10%	N/A	N/A	N/A
Baneberry	568	187	33%	N/A	N/A	2%	N/A	N/A	N/A
Rutherford College	1,104	360	33%	N/A	N/A	14%	N/A	N/A	N/A
Fallston	776	236	30%	N/A	N/A	32%	N/A	N/A	N/A
Maggie Valley	1,843	557	30%	N/A	N/A	7%	N/A	N/A	N/A
Biltmore Forest	1,679	490	29%	N/A	N/A	3%	N/A	N/A	N/A
Rutherfordton	4,071	1,171	29%	N/A	N/A	16%	911	N/A	N/A
Weaverville	3,956	1,126	28%	N/A	N/A	5%	N/A	N/A	N/A

Location	Total Pop.	Pop. > 65 yrs	% of Pop. > 65 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Banner Hill	1,396	390	28%	N/A	N/A	13%	N/A	N/A	N/A
Burnsville	2,035	549	27%	N/A	N/A	25%	N/A	N/A	N/A
Cosby	723	194	27%	N/A	N/A	23%	N/A	N/A	N/A
Waynesville	10,145	2,689	27%	N/A	N/A	20%	N/A	N/A	N/A
West Marion	1,100	284	26%	N/A	N/A	4%	N/A	N/A	N/A
Lake Junaluska	3,252	818	25%	N/A	N/A	5%	N/A	N/A	N/A
Foscoe	1,309	325	25%	N/A	N/A	12%	N/A	N/A	N/A
Linville	299	73	24%	N/A	N/A	0%	N/A	N/A	N/A
Cherokee	2,120	516	24%	N/A	N/A	14%	N/A	N/A	N/A
Erwin	5,910	1,407	24%	N/A	N/A	22%	N/A	N/A	N/A
Mills River	7,319	1,738	24%	N/A	N/A	7%	N/A	N/A	N/A
Old Fort	743	171	23%	N/A	N/A	21%	N/A	N/A	N/A
Drexel	1,725	397	23%	N/A	N/A	11%	N/A	N/A	N/A
Polkville	526	120	23%	N/A	N/A	25%	N/A	N/A	N/A
Greeneville	14,938	3,304	22%	N/A	N/A	17%	N/A	N/A	N/A
Fletcher	8,287	1,818	22%	N/A	N/A	8%	N/A	N/A	N/A
Emma	2,532	554	22%	N/A	N/A	14%	N/A	N/A	N/A
Royal Pines	4,499	954	21%	N/A	N/A	4%	N/A	N/A	N/A
Granite Falls	4,659	985	21%	N/A	N/A	10%	N/A	N/A	N/A
Parrottsville	331	69	21%	N/A	N/A	16%	N/A	N/A	N/A
Hot Springs	530	109	21%	N/A	N/A	27%	N/A	N/A	N/A
Icard	2,119	432	20%	N/A	N/A	20%	N/A	N/A	N/A
Spruce Pine	2,221	451	20%	N/A	N/A	22%	N/A	N/A	N/A
Gamewell	3,874	786	20%	N/A	N/A	11%	N/A	N/A	N/A
Valdese	4,420	891	20%	N/A	N/A	9%	585	N/A	N/A
Canton	4,313	858	20%	N/A	N/A	8%	N/A	N/A	N/A
Newland	710	141	20%	N/A	N/A	17%	N/A	N/A	N/A
Lenoir	17,909	3,429	19%	N/A	N/A	18%	N/A	N/A	N/A
Tusculum	2,730	521	19%	N/A	N/A	6%	N/A	N/A	N/A
Fairview	2,741	523	19%	N/A	N/A	9%	N/A	N/A	N/A
Asheville	92,328	17,436	19%	N/A	N/A	13%	N/A	N/A	N/A
West Canton	1,432	270	19%	N/A	N/A	17%	N/A	N/A	N/A
Cajah's Mountain	2,758	520	19%	N/A	N/A	10%	N/A	N/A	N/A
Newport	6,865	1,262	18%	N/A	N/A	31%	N/A	N/A	N/A
Morganton	16,517	2,976	18%	N/A	N/A	25%	3,508	N/A	N/A
Marion	7,853	1,411	18%	N/A	N/A	23%	1,940	N/A	N/A
Sawmills	5,201	929	18%	N/A	N/A	20%	N/A	N/A	N/A
Roan Mountain	1,064	186	17%	N/A	N/A	9%	N/A	N/A	N/A
Clyde	1,483	254	17%	N/A	N/A	7%	N/A	N/A	N/A
Marshall	658	112	17%	N/A	N/A	21%	N/A	N/A	N/A
Connelly Springs	2,272	375	17%	N/A	N/A	14%	389	N/A	N/A
Morristown	29,887	4,898	16%	N/A	N/A	26%	10	N/A	N/A
Belwood	1,130	185	16%	N/A	N/A	18%	7	N/A	N/A
Woodfin	6,689	1,089	16%	N/A	N/A	19%	N/A	N/A	N/A

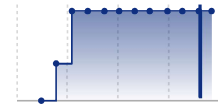
Location	Total Pop.	Pop. > 65 yrs	% of Pop. > 65 yrs ▼	% of Women Pop.	% of Children Under 5	% of Pop. Below Poverty Level	Num. Customers Without Power	DME Users	DME Users / 100K Pop.
Glen Alpine	1,927	297	15%	N/A	N/A	14%	57	N/A	N/A
Hudson	3,713	571	15%	N/A	N/A	22%	N/A	N/A	N/A
White Pine	2,397	360	15%	N/A	N/A	20%	N/A	N/A	N/A
Swannanoa	4,360	647	15%	N/A	N/A	22%	N/A	N/A	N/A
Hoopers Creek	1,392	196	14%	N/A	N/A	7%	N/A	N/A	N/A
Banner Elk	1,473	206	14%	N/A	N/A	6%	N/A	N/A	N/A
Nebo	1,318	177	13%	N/A	N/A	17%	995	N/A	N/A
Bent Creek	1,652	217	13%	N/A	N/A	4%	N/A	N/A	N/A
Casar	361	47	13%	N/A	N/A	31%	69	N/A	N/A
Edneyville	2,782	362	13%	N/A	N/A	20%	N/A	N/A	N/A
Lawndale	711	91	13%	N/A	N/A	21%	9	N/A	N/A
Sylva	2,696	295	11%	N/A	N/A	22%	N/A	N/A	N/A
Crossnore	146	15	10%	N/A	N/A	0%	N/A	N/A	N/A
Avery Creek	3,256	302	9%	N/A	N/A	2%	N/A	N/A	N/A
Mars Hill	3,035	278	9%	N/A	N/A	14%	N/A	N/A	N/A
Barnardsville	742	66	9%	N/A	N/A	11%	N/A	N/A	N/A
Embreeville	1,032	82	8%	N/A	N/A	3%	N/A	N/A	N/A
Elk Park	495	36	7%	N/A	N/A	27%	N/A	N/A	N/A
Montreat	362	12	3%	N/A	N/A	0%	N/A	N/A	N/A

Power Outages

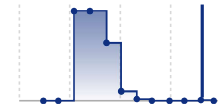
Counties



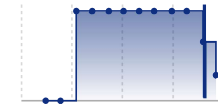
Henderson



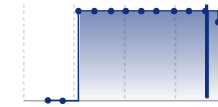
Buncombe



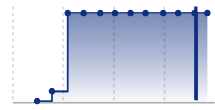
Hamblen



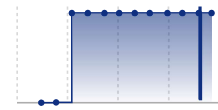
Caldwell



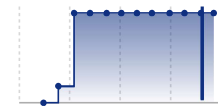
Burke



McDowell



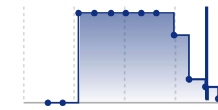
Rutherford



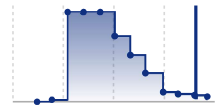
Mitchell



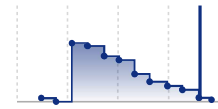
Jefferson



Cleveland



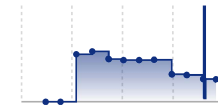
Jackson



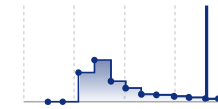
Haywood



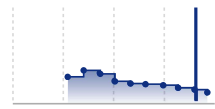
Greene



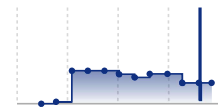
Yancey



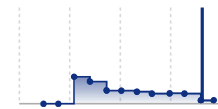
Madison



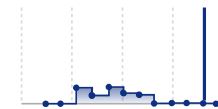
Watauga



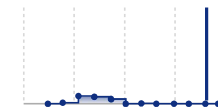
Avery



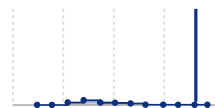
Unicoi



Washington



Swain

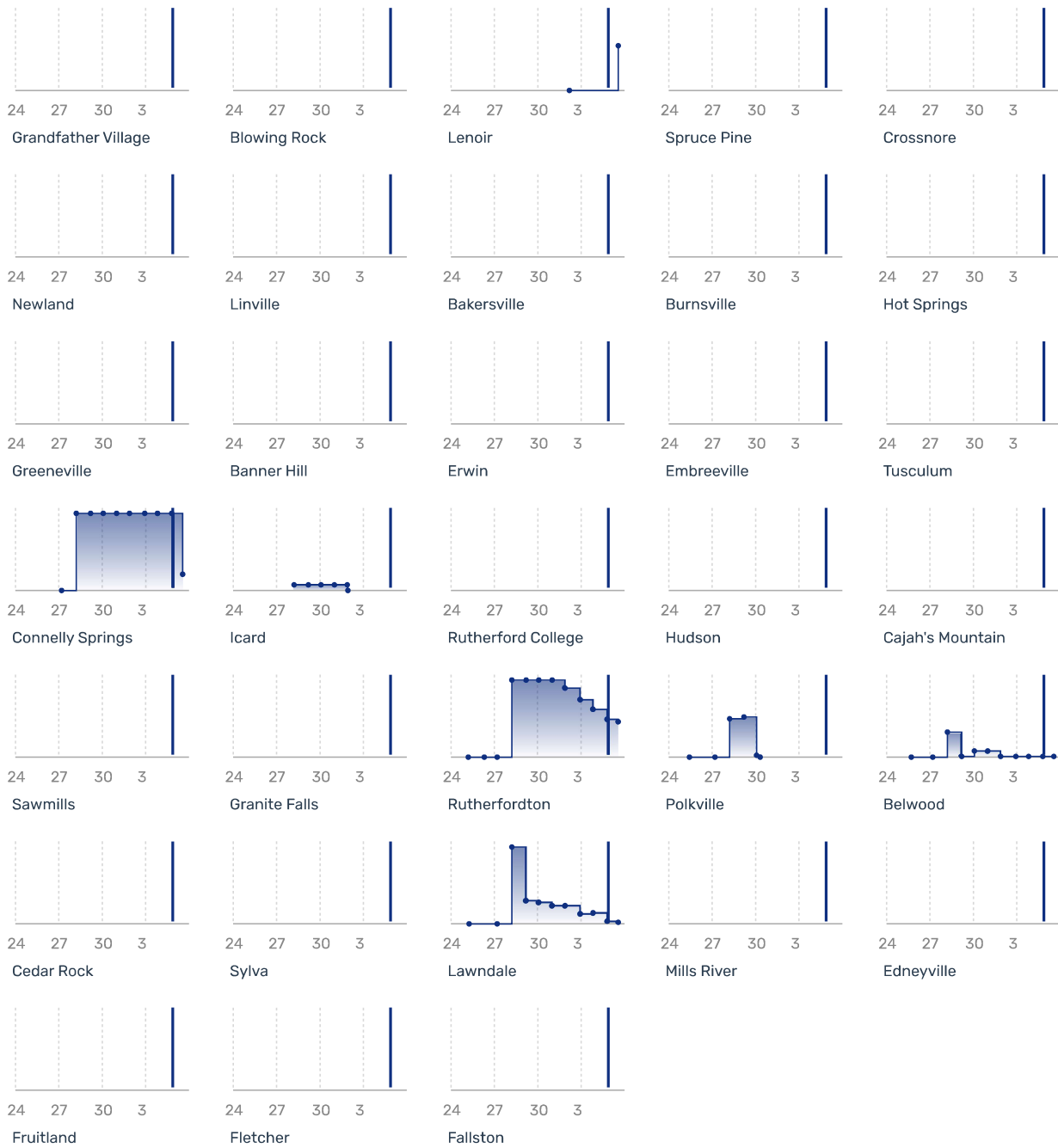


Cocke



Carter





CrisisReady is a research response platform at the Harvard Data Science Initiative and Direct Relief that advances data-driven decision making in emergency response. Contact us at info.crisisready.io to get in touch.

Report created on Oct 7, 2024 at 09:18 EDT