2018 ANNUAL DATA REPORT

SOUTH CAROLINA STATE NFIRS PROGRAM



INTRODUCTION

In 2018, South Carolina fire departments were called to 435,007 incidents, a 3.8 percent increase from the previous year. With mutual aid included, the number of reports increases to 470,101. More than \$160 million of property, 7,300 acres, and 97 civilian lives were lost to fires.

A Day in the South Carolina Fire Service

Today, 1,188 calls for service will be resolved by the more than 19,000 firefighters in our state. Of these calls:

- 62 will be fires,
- 123 will be false alarms, and
- 709 will be medical or rescue calls (including MVCs).
- One in every 277 fires will be fatal.

With 435 fire departments reporting data to NFIRS, we can better understand our communities' need for fire department response.

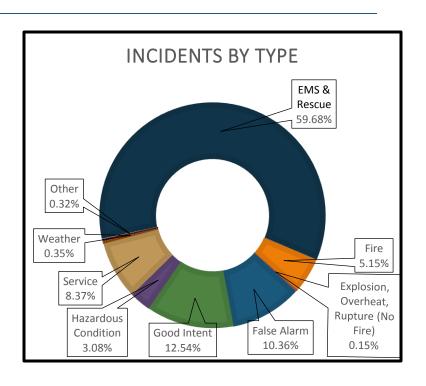
The South Carolina State NFIRS Program's mission is to serve local fire departments by providing training, analysis, account assistance, and reporting assistance in order to meet the goals set forth by the United States Fire Administration, South Carolina State Fire, and the local department. By having better quality data, fire departments can meet the safety needs of the community.

Reporting to NFIRS is required by South Carolina Code of Regulations 71-8300.5. Providing data to the State and USFA allows departments to apply for and receive grant funding, improve budget and resource allocations, recruit and retain fire service personnel, and create assessments to reduce risks in their communities. For questions about the State NFIRS Program, contact Samantha Quizon at (803) 896-1250.

Civilian fire death data is provided by the Community Loss Education and Response Team (see page 8). For information about the civilian fire death research program, contact Chief Josh Fulbright at (803) 896-9895.

STATEWIDE SUMMARY

Structure Fires	7,592
Vehicle Fires	4,008
Other Fires	10,343
Total Fire Incidents	21,943
Rescue/EMS	259,628
Other Incidents	72,341
False Alarms or No	45,068
Emergency Found	
Canceled en Route	35,567
Total Non-Fire Incidents	412,604
	-
All Incidents with Mutual Aid	470,101



Top 10 Incident Types

96,072
85,337
35,311
22,945
19,451
14,648
12,518
9,325
8,085
7,554

Historical Summary of Calls

	2016	2017	2018
Fires	23,319	23,438	21,943
Non-Fire Incidents	350,426	395,292	412,604
All Incidents	373,745	418,874	435,007
All Incidents Plus Mutual Aid	406,104	422,348	470,101

AVERAGE RESPONSE FREQUENCIES

(These response rates do not include exposures or automatic/mutual aid given.)

One fire department responds every	
1 minute and 12 seconds	
	One fire occurs every
	24 minutes and 1 second
One structure fire occurs every	
1 hour and 9 minutes	
	One vehicle fire occurs every
	2 hours and 11 minutes
One outside or other fire occurs every	
50 minutes and 57 seconds	
	One other emergency call
	(non-fire) occurs every
	1 minute and 16 seconds
One EMS/Rescue call occurs every	
2 minutes and 2 seconds	
	One false alarm occurs every
	11 minutes and 42 seconds

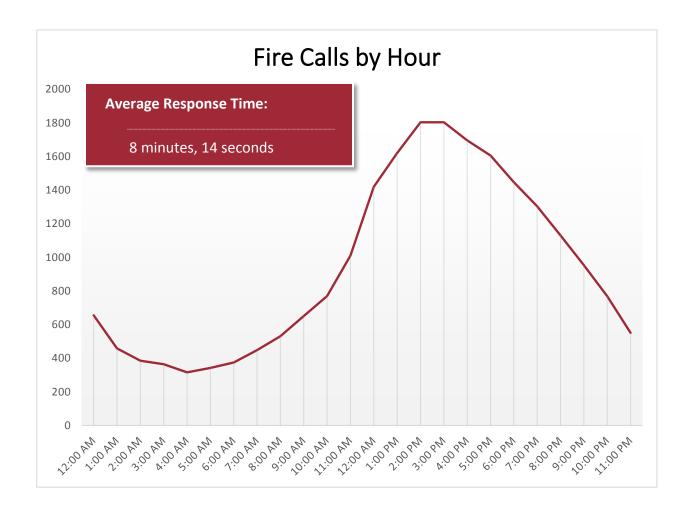


FIRE INCIDENTS

Approximately 5.2 percent of calls this year were fires of any type, including structure, vehicle, and outdoor fires. By learning about the location, frequency, and details of these fires, we can better prevent and respond.

	Total	Civilian	Civilian	Firefighter	Property	Percentage
TOTAL		Deaths*	Injuries	Injuries	Loss	of Fires
Structure	7,592	85	210	84	\$128,889,996	35%
Vehicle	4,008	9	33	7	\$20,808,832	18%
Other/Outdoor	10,343	3	14	6	\$2,676,764	47%

^{*}Civilian deaths are calculated using CLEAR Team data. See page 8 for details.



	Combination	Paid	Volunteer	Unlabeled
Number of Fire Calls	15,000	3,085	4,144	155
Total Property Lost	\$108 million	\$28 million	\$15 million	\$839,000

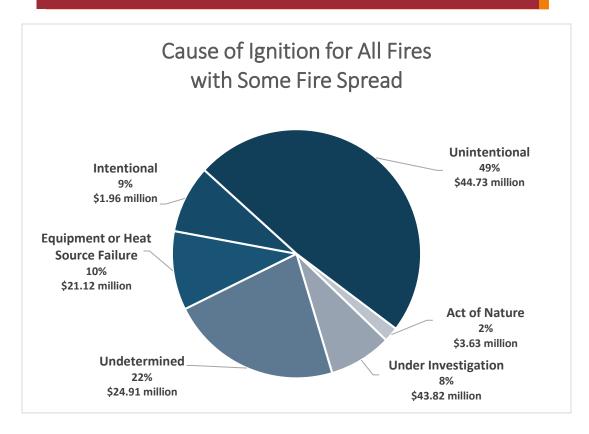
Fire Losses Greater Than \$1 Million (Property and Content Combined)

Date	County	FD Name	Property Use	Dollar Loss (in millions)
January 19	Sumter	Sumter (City)	Warehouse	1.9
February 13	Sumter	Sumter (City)	Multifamily dwelling	2.5
February 18	Orangeburg	Orangeburg	Manufacturing, processing	1.0
February 19	Marlboro	Bennettsville	Manufacturing, processing	15.0
February 27	Colleton	Colleton County	Public or government, other	1.5
March 1	Lancaster	Kershaw	High school or middle school	1.4
March 7	Beaufort	Hilton Head Island	Restaurant or cafeteria	1.2
March 9	Greenville	Greenville	Multifamily dwelling	1.1
March 15	Lancaster	Indian Land	1 or 2 family dwelling	1.7
March 15	Richland	Columbia-Richland	Department or discount store	6.0
March 20	Pickens	Easley	Motor vehicle or boat sales, services, repair	1.5
April 9	Charleston	Charleston	1 or 2 family dwelling	1.5
April 20	Orangeburg	Holly Hill	Manufacturing, processing	5.7
April 22	Charleston	Mt. Pleasant	Church, mosque, synagogue, temple, chapel	8.0
May 9	Beaufort	Burton	1 or 2 family dwelling	1.7
June 26	Greenville	Glassy Mountain	1 or 2 family dwelling	1.1
August 27	Greenville	Taylors	Multifamily dwelling	1.0
September 1	Georgetown	Midway (Georgetown)	1 or 2 family dwelling	1.4
September 5	Colleton	Colleton County	1 or 2 family dwelling	1.6
September 7	Greenville	Greenville	Multifamily dwelling	2.5
September 15	Richland	Columbia-Richland	Residential or self-storage units	1.0
October 15	Anderson Anderson Department or discount store		Department or discount store	2.0
October 18	Horry	North Myrtle Beach	Multifamily dwelling	2.8
November 7	Beaufort	Hilton Head Island	Multifamily dwelling	1.3
November 10	Spartanburg	Pelham-Batesville	Vehicle storage, other	3.0
December 13	Berkeley	Whitesville-Rural	Motor vehicle or boat sales, services, repair	1.0

Top 10 Items First Ignited

Undetermined	9,086
Light vegetation- not crop, including grass	2,439
Cooking materials, including edible materials	792
Electrical wire, cable insulation	724
Rubbish, trash, waste	468
Heavy vegetation- no crop, including trees	448
Organic materials, other	300
Multiple items first ignited	259
Items first ignited, other	259
Flammable liquid/gas – in/from engine	226

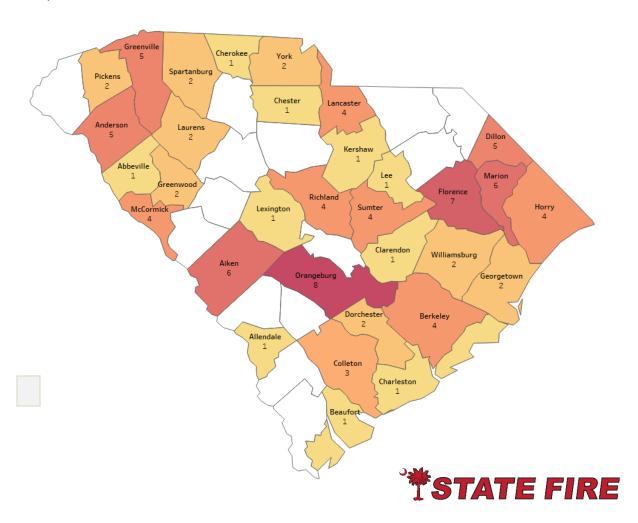
When reporting fires in NFIRS, sometimes fire department personnel do not initially know how a fire started. For 41 percent of fires in South Carolina, it is "undetermined" what first ignited. Fire prevention through education, engineering, and enforcement can result from a better understanding of the more common types of fires occurring in South Carolina.

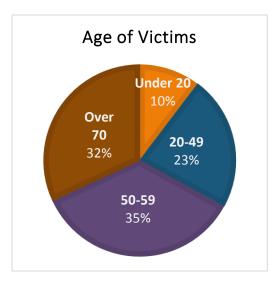


Fires confined to the object of origin are not represented in this chart.

CIVILIAN INJURIES AND DEATHS

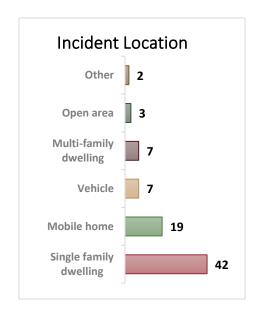
Ninety-seven civilians lost their lives to fires, and 257 fire-related injuries were reported to NFIRS. The Community Loss Education and Response (CLEAR) Team responds to every fire death in South Carolina, and researches the incident and related losses. Using what is learned, we can better educate the public to keep themselves safe. Find a more in-depth report on the South Carolina State Fire website. Numbers below reflect what is known by State Fire, and may not be consistent with NFIRS data.





Males	63%	Females	37%

White	Black	Hispanic
58%	41%	1%



HOW DOES THE CLEAR TEAM HELP NFIRS DATA?

The Community Loss Education and Resource (CLEAR) Team is dedicated to researching the circumstances of fatal fires and the victims who perish within them.

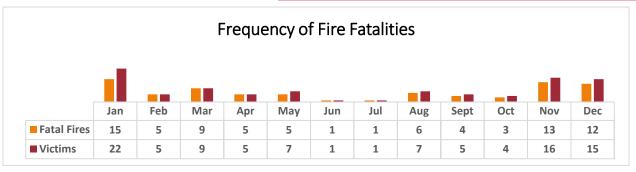
The CLEAR Team works in tandem with fire departments to document fire fatalities in their entirety, including assisting in NFIRS documentation. In turn, State Fire uses reported fire deaths to compare those incidents to non-fatal ones.

Every fire death must be reported to State Fire and recorded in NFIRS. By working together, we can understand why these losses happen in a multi-dimensional way.

You can learn more information about our state's fire fatalities through the South Carolina State Fire website. To report a fire fatality in your community, call the State Warning Point at 803-737-8500.

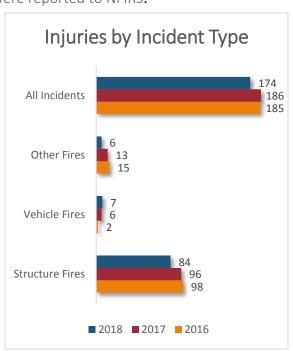
Most Probable Cause of Fatal Incidents

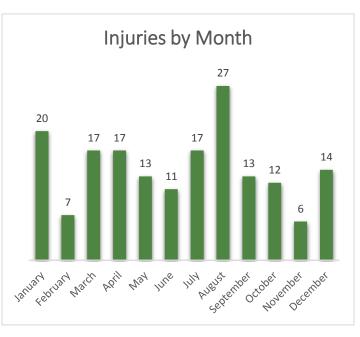
Heating (24%)	Undetermined	MVC (8%)	Other (4%)
Smoking	(13%)	Electrical	Arson (1%)
(15%)		(5%)	
Under	Cooking (13%)	Outdoor	Weather
Investigation		Burning (4%)	(1%)
(15%)			

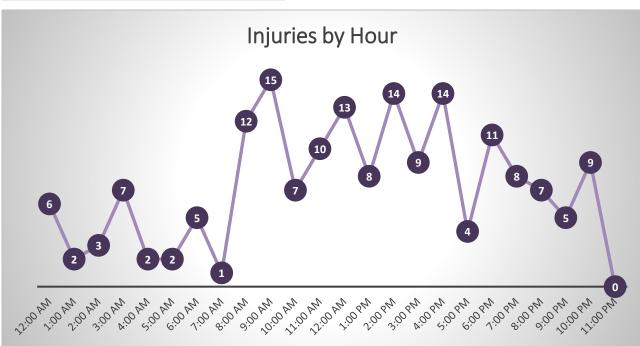


FIRE SERVICE INJURIES

Firefighters encounter a number of hazards in the line of duty. This year, 174 fire service injuries were reported to NFIRS.

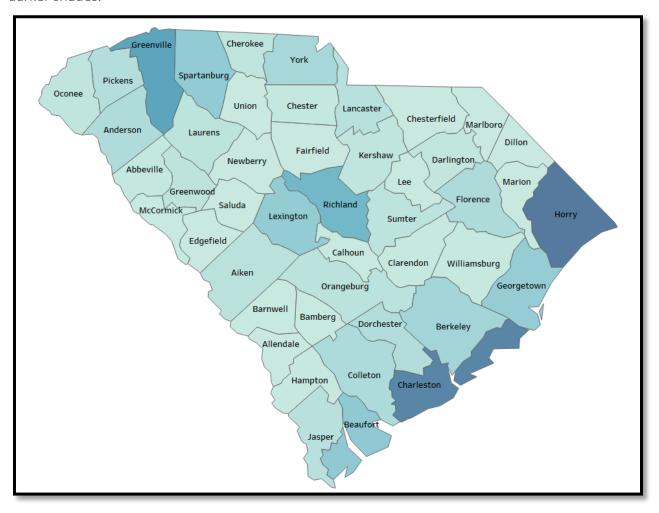






COUNTY INFORMATION

The following tables describe statistics at the county level. All 46 counties in South Carolina have at least one fire department which reported statistics to NFIRS in 2018. The map below shows the number of incidents reported per county, with higher numbers of incidents represented by darker shades.



	Structure	Vehicle	Other	Total	Fire Service	Civilian Fire	Civilian Fire	Wildfire Acres
	Fires	Fires	Fires	Fires	Injuries	Injuries	Deaths	Burned*
Abbeville	43	18	51	112	0	2	1	31
Aiken	270	135	353	758	1	4	6	160
Allendale	40	13	47	100	3	0	1	52
Anderson	450	234	472	1156	2	4	5	78
Bamberg	55	18	41	114	1	2	0	78
Barnwell	34	16	64	114	0	2	0	35
Beaufort	211	100	319	630	5	4	1	375
Berkeley	201	91	319	611	1	4	4	131
Calhoun	22	19	67	108	0	0	0	162
Charleston	560	341	733	1634	9	56	1	61
Cherokee	115	50	120	285	0	1	1	27
Chester	60	22	86	168	0	0	1	59
Chesterfield	60	36	120	216	1	2	0	37
Clarendon	59	55	185	299	0	0	1	368
Colleton	129	86	200	415	3	5	3	230
Darlington	114	78	247	439	0	1	0	181
Dillon	16	21	26	63	0	0	5	1
Dorchester	147	87	222	456	2	3	2	4
Edgefield	16	6	13	35	0	0	0	6
Fairfield	17	16	24	57	0	0	0	2
Florence	279	153	474	906	3	1	7	441
Georgetown	109	66	169	344	1	1	2	664
Greenville	800	331	672	1803	8	26	5	33
Greenwood	221	73	189	483	0	10	2	104
Hampton	53	27	86	166	0	1	0	30
Horry	399	188	630	1217	23	39	4	49
Jasper	63	53	123	239	0	0	0	175
Kershaw	111	55	179	345	0	1	1	221
Lancaster	88	35	155	278	1	1	4	34
	100	55	126	281	0	5	2	38
Laurens	66	32	101	199	0	0	1	224
Lee			-		_		_	
Lexington	574	279	806	1659	7	16	1	8
Marion	25	11	25	61	0	3	6	38
Marlboro	89	31	128	248	0	1	0	151
McCormick	6	3	16	25	1	0	4	5
Newberry	66	52	90	208	1	3	0	10
Oconee	73	45	98	216	1	2	0	22
Orangeburg	227	127	359	713	10	10	8	112
Pickens	206	91	207	504	0	1	2	22
Richland	536	334	917	1787	6	12	4	364
Saluda	12	13	39	64	0	0	0	58
Spartanburg	449	236	471	1156	3	9	2	52
Sumter	297	102	412	811	0	0	4	1,532
Union	17	7	23	47	0	0	0	1
Williamsburg	94	64	172	330	0	1	2	869
York *If <1 acre burned. th	207	102	215	524	2	1	2	53

^{*}If <1 acre burned, the number reported was rounded up to 1 acre. All decimal points were rounded to the nearest whole number.

	Total Fires	Property Lost to Fire	Property and Contents Saved	EMS Calls	Other Calls**	Total Incidents	Add Mutual Aid Given
Abbeville	112	\$92,690	\$533,500	1,320	600	2,032	2,398
Aiken	758	\$3,099,600	\$6,970,267	3,015	1,868	5,641	6,818
Allendale	100	\$347,600	\$1,788,800	63	184	347	436
Anderson	1,156	\$2,633,251	\$21,619,695	5,255	3,154	9,565	10,537
Bamberg	114	\$1,923,425	\$14,992,200	214	243	571	680
Barnwell	114	\$198,700	\$542,000	214	167	495	667
Beaufort	630	\$7,607,001	\$157,191,961	13,611	7,638	21,879	22,962
Berkeley	611	\$3,556,674	\$28,474,806	10,145	3,720	14,476	16,207
Calhoun	108	\$377,000	\$272,500	255	164	527	735
Charleston	1,634	\$18,815,203	\$511,549,544	35,729	25,824	63,187	70,619
Cherokee	285	\$120,500	\$5,000	2,382	1,230	3,897	4,327
Chester	168	\$408,153	\$732,250	1,128	639	1,935	2,142
Chesterfield	216	\$986,050	\$207,085,500	202	394	812	935
Clarendon	299	\$2,111,525	\$10,784,375	803	396	1,498	1,509
Colleton	415	\$5,400,700	\$9,014,006	7,138	2,737	10,290	10,335
Darlington	439	\$881,100	\$478,500	1,167	1,170	2,776	2,811
Dillon	63	\$173,000	\$8,500	15	18	96	287
Dorchester	456	\$3,224,087	\$6,725,798	5,109	2,630	8,195	8,890
Edgefield	35	\$407,700	\$369,000	189	149	373	442
Fairfield	57	\$555,000	\$125,450	149	59	265	322
Florence	906	\$4,928,893	\$114,133,127	5,353	3,970	10,229	10,421
Georgetown	344	\$4,542,690	\$12,154,236	14,687	4,516	19,547	19,988
Greenville	1,803	\$10,355,968	\$76,472,463	27,473	16,035	45,311	46,944
Greenwood	483	\$814,673	\$1,030,061	1,436	2,429	4,348	4,981
Hampton	166	\$809,015	\$2,577,122	674	315	1,155	1,295
Horry	1,217	\$7,051,205	\$238,086,892	51,927	18,148	71,292	72,259
Jasper	239	\$878,166	\$1,314,739	4,430	1,445	6,114	7,161
Kershaw	345	\$1,207,750	\$1,418,800	1,620	1,368	3,333	3,452
Lancaster	278	\$3,824,580	\$36,183,250	3,784	2,182	6,244	8,431
Laurens	281	\$358,100	-\$58,600	2,919	1,460	4,660	5,096
Lee	199	\$940,585	\$2,338,245	315	295	809	820
Lexington	1,659	\$8,704,088	\$67,080,585	10,614	8,119	20,392	22,428
Marion	61	\$314,550	\$936,900	82	55	198	256
Marlboro	248	\$10,615,092	\$33,925,927	302	378	928	1,081
McCormick	25	\$181,500	-\$226,000	325	74	424	598
Newberry	208	\$1,502,175	\$23,342,631	185	555	948	1,359
Oconee	216	\$1,302,300	\$3,266,620	1,325	1,789	3,330	3,709
Orangeburg	713	\$6,447,820	\$25,565,861	2,690	1,870	5,273	6,846
Pickens	504	\$3,118,850	\$44,141,777	3,645	3,416	7,565	8,327
Richland	1,787	\$15,808,492	-\$13,743,878	17,143	14,203	33,133	33,313
Saluda	64	\$196,600	\$216,600	99	169	332	514
Spartanburg	1,156	\$2,402,466	\$18,320,944	11,477	8,205	20,838	25,490
Sumter	811	\$10,301,200	\$150,584,185	1,417	2,464	4,692	4,771
Union	47	\$261,000	\$462,700	84	185	316	502
Williamsburg	330	\$632,500	\$1,265,384	620	594	1,544	1,629
York	524	\$1,956,375	\$11,345,682	6,676	5,643	12,843	13,942

^{**&}quot;Other Calls" includes but is not limited to false alarms, canceled en route, HazMat incidents, and weather-related incidents.

2018 Participating NFIRS Fire Departments

Out of the 509 fire departments in SC, 435 departments reported at least once during the year.

Thank you to the 268 departments (underlined) that reported 12 months of the year.

Α	BB	BE/	/IL	LE

Calhoun Falls
Cold Springs
Donalds Rural
Due West Town
Edgewood
Keowee
Long Cane

Lowndesville Rural Monterey Rural Sharon Rural

Broadmouth Turkey Creek

Bethia Abbeville City

AIKEN

Sage Mill Beech Island Belvedere Center Eureka G.V.W. Jackson Langley Montmorenci Monetta **New Ellenton New Holland** Midland Valley Silver Bluff Wagener Windsor

City of North Augusta

ALLENDALE

Hollow Creek

City of Aiken

Allendale County

ANDERSON

City of Anderson Rock Springs Pendleton Homeland Park Starr Double Springs

West Pelzer
Powderville
Broadway
Centerville

<u>Center Rock</u> Cheddar

<u>Piercetown</u> <u>Zion</u> Friendship

Walker-McElmoyle

Townville Grove

Three & Twenty Hopewell Craytonville Whitefield Ebenezer Wren

Flat Rock-Bowen
Sandy Springs
Honea Path
Williford
Belton
Williamston

BAMBERG

Erhardt Govan

Hunter's Chapel

Olar

Little Swamp Colston Clear Pond <u>City of Bamberg</u> <u>Denmark</u>

BARNWELL

Elko
Hilda
Williston
Long Branch
Barnwell Rural
City of Barnwell

BEAUFORT

Hilton Head Island
Bluffton Township
Sheldon Township
Beaufort City/Port Royal

Burton

Lady's Island/St. Helena

Daufuskie Island

BERKELEY

Alvin Bonneau Caromi Village

<u>C & B</u> <u>Cross Rural</u> Goose Creek Rural

Lake Moultrie
Macedonia Rural
Santee Circle Rural
Pimlico Rural
Pine Ridge
Whitesville

Forty-One Community Moncks Corner Rural Cordesville

Cainhoy

Jamestown
City of Goos

City of Goose Creek
City of Hanahan
City of Moncks Corner

CALHOUN CHESTERFIELD FLORENCE Brocks Mill Rural City of Florence Cameron Sandy Run Olanta Alligator Belleville Ruby-Mt. Croghan Windy Hill Fort Motte Sardis Timmonsville Sandhill Jumper Teal's Mill Rural <u>Johnsonville</u> Midway **Bay Springs Howe Springs** Hannah-Salem Friendfield St. Matthews <u>Cheraw</u> South Lynches **CLARENDON** Lake City **CHARLESTON** West Florence Rural Manning St Pauls Clarendon County **GEORGETOWN** Awendaw City of Charleston COLLETON Murells Inlet Folly Beach City of Georgetown Isle of Palms Edisto Beach **Midway** Georgetown County Walterboro James Island **Colleton County** Mt. Pleasant **GREENVILLE** North Charleston St. Andrews St. Johns **DARLINGTON Donaldson Center** City of Greenville **CHEROKEE Darlington County** Parker District City of Darlington Glassy Mountain Gaffney Hartsville Cedar Mountain Blacksburg **Duncan Chapel** Cherokee Creek DILLON Dunklin Corinth North Greenville **Grassy Pond** Dillon County Station #9 Slater - Marietta Cherokee – King's Creek /Oak Grove **Tigerville** DMW Dillon County Station #1 Gowensville <u>Buffalo</u> Dillon County Station #5 Clear Spring Canebrake **CHESTER DORCHESTER River Falls** Belmont Fort Lawn Rural **Dorchester County** Berea Lando Ashley River **Boiling Springs** Lewis Summerville Fountain Inn **North Chester Gantt EDGEFIELD** <u>Gr</u>eer Richburg Lake Cunningham City of Chester **Great Falls** City of Edgefield Mauldin Merriwether Piedmont Piedmont Park **FAIRFIELD** Simpsonville South Greenville

Fairfield County*

Winnsboro

<u>Taylors</u> Travelers Rest

Wade Hampton

^{*} This department was consolidated or created before the end of CY2018.

GREENWOOD LANCASTER

CoronacaAntiochModocEpworth-PhoenixBell TownParksvilleHodges-CokesburyBufordSandy BranchHighers 24MacCorreich Country

MCCORMICK

<u>Highway 34</u> <u>Camp Creek</u> McCormick County

Lower Lake Greenwood Charlotte Road / Van Wyck Ninety-Six Elgin **MARION Northwest** Flat Creek Gooches Marion Rural Troy Ware Shoals **Heath Springs** Pee Dee Rural Callison Indian Land Mullins

Tri-CountyKershawTemperance HillCity of GreenwoodMcDonald Green

Pleasant Valley MARLBORO
HAMPTON Rich Hill

RiversideBlenheimEstillShilloh ZionClio RuralCity of HamptonTradesvilleMcCollHampton CountyUnityWallace

Lancaster CountyBrightsvilleHORRYCity of LancasterBennettsville

Loris LAURENS NEWBERRY
Conway
Myrtle Beach Cross Hill Friendly

North Myrtle BeachGray CourtProsperitySurfside BeachGreenpondWhitmireHorry CountyHickory TavernPomariaJoannaConslidatedJASPERRennoLittle Mountain

JASPERRenno
Sandy SpringsLittle Mountain
SilverstreetJasper CountyWaterlooBush RiverRidgelandWestern LaurensFairviewHardeevilleYoungsChappells

Durbin CreekSt. PhilipsKERSHAWLaurens CountyCity of Newberry

Clinton

Kershaw County*

Station 30*

Camden City of Laurens
Lugoff
LEE

LEXINGTON

Lee County

Columbia Metro Airport

West Columbia
Batesburg-Leesville

Irmo
Cayce

Lexington County

OCONEE PICKENS Roebuck

Startex Cleveland Central Una

Corinth-Shiloh Dacusville Westview - Fairforest

Crossroads Norris Whitney

Fairplay Pumpkintown **Inman Community** Friendship Six Mile **Poplar Springs** Keowee-Ebenezer **Holly Springs** Tyger River Long Creek **Vineyards Cooley Springs** Clemson University Mountain Rest Cowpens

Oakway Easley Croft

Picket Post/Camp Oak Liberty **North Spartanburg** Salem **Keowee Springs** Pelham - Batesville

South Union City of Pickens Woodruff

West Union Crosswell

Walhalla Shady Grove **SUMTER**

Westminster Pickens Rural

City of Sumter Keowee **RICHLAND Sumter County**

ORANGEBURG City of Columbia UNION

City of Orangeburg McCrady National Guard Cordova **Bonham**

Eutawville **SALUDA** Buffalo **Holly Hill** Kelly - Kelton Jamison Circle Monarch Southside Neeses Midland

Old Town North Carlisle Ridge Spring Lockhart Norway Rowesville City of Saluda Santuc

Santee Hollywood

WILLIAMSBURG Springfield Bowman **SPARTANBURG**

Vance Hemingway Wolfton City of Spartanburg Williamsburg County

Branchville Greenville-Spartanburg Kingstree

Pine Hill Jetport YORK Bolentown **Boiling Springs**

Cattle Creek

Elloree

Cherokee Springs West Middle **Chesnee Community** Rock Hill

Bethany - Santiago Converse Area <u>Canaan</u> Providence Bethel Drayton Edisto Duncan Flint Hill

Four Holes Glendale Area Fort Mill Sawyerdale Glenn Springs-Pauline **Hickory Grove**

Reidville

Lesslie Hilltop **Holly Springs** Oakdale Inman City Sharon Landrum Smyrna Mayo Tega Cay

New Prospect City of York Pacolet Town