

# 1999 South Carolina Irrigation Survey

State Irrigation totals are on pages 15 and 16

(Counties in italics are 1998 data)

1999	County	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell
	Contact	CP Chihasz	Terry Mathis	Jim Thomas	Ernest Locke	Gilbert Miller	Joe Varn
Sprinkler	Side Roll/Wheel Line						0
	Traveler	30	400	600		1000	1000
	Solid Set				3	300	0
	Hand Move		200	150	6	75	10
	Center Pivot/Linear		775	10500	30	6200	1700
	%Impact			66%	100%	50%	
	%LEPA			34%		50%	
	%chemigating		50%	100%		10%	
Total Sprinkler Acreage	30	1375	11250	39	7575	2710	
Gravity/Flood	Flooding from Ditches						
	Open Ditch w/siphons						
	Gated Solid Pipe						
	% w/ surge valves						
	Layflat pipe			200			
	Seepage/Sub Irrig.						
	% using PAM						
Total Gravity Acreage	0	0	200	0	0	0	
Low Flow / Drip	Surface Microspray					5	
	Surface Drip		15	600	20	3000	1600
	SDI					5	
	Buried Perf. pipe			100			
	Total Drip Acreage	0	15	700	20	3010	1600
<b>Total Irrigated Acreage</b>		<b>30</b>	<b>1390</b>	<b>12150</b>	<b>59</b>	<b>10585</b>	<b>4310</b>
Irrigation Power Unit Types	% Diesel	100%	66%	70%		25%	25%
	% Gasoline				80%		
	% Electric		34%	30%	20%	75%	75%
	% LP or Gas						
Irrigation Wells	Number						
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible						
	% Centrifugal						
Pumps	% Stationary		50%	80%		80%	50%
	% Portable	100%	50%	20%	100%	20%	50%

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1999	<i>County</i>	Abbeville	Aiken	Allendale	Anderson	Bamberg	Barnwell	
	<i>Contact</i>	CP Chihasz	Terry Mathis	Jim Thomas	Ernest Locke	Gilbert Miller	Joe Varn	
Irrigation by Crop	Alfalfa							
	Apples							
	Avocado							
	Barley							
	Beans & Peas							
	Berries					5		
	Citrus							
	Corn			130	5000		1500	1100
	Cotton			425	4000		3000	900
	Flower Seeds							
	Grass Seeds							100
	Grains							
	Grapes			15				
	Hops							
	Lettuce							
	Melons				1500		2700	1600
	Mint							
	Nursery				1	10	100	
	Nuts			50			10	
	Oats							
	Olives							
	Pasture/Hay Crop		30		200		1000	
	Pineapples							
	Potatoes							
	Rice							
	Small Fruits				20		5	
	Sugar Cane							
	Sorghum							
	Soybeans				2000		500	
	Sugar Beets							
Tobacco								
Tree Fruits			200	100				
Turfgrass Sod			400		10			
Vegetables				725	5	50	200	
Wheat				2000		100		
Other			170					

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1999	County	Beaufort	Berkeley	Calhoun	Charleston	Cherokee	Chester
	Contact	York Glover	Frank Fitzsimons	Charles Davis	Roger Frances	David Parker	John Nance
Sprinkler	Side Roll/Wheel Line		0				
	Traveler		0	1200		1000	225
	Solid Set		0	25			
	Hand Move		0				75
	Center Pivot/Linear	400	0	9500			
	%Impact			40%			
	%LEPA			60%			
	%chemigating			10%			
Total Sprinkler Acreage	400	0	10725	0	1000	300	
Gravity/Flood	Flooding from Ditches		0				
	Open Ditch w/siphons		0				
	Gated Solid Pipe		0				
	% w/ surge valves						
	Layflat pipe		0				
	Seepage/Sub Irrig.		0				
	% using PAM						
Total Gravity Acreage	0	0	0	0	0	0	
Low Flow / Drip	Surface Microspray		0				
	Surface Drip	1250	0	800	950	360	10
	SDI		0	100			
	Buried Perf. pipe		0				
	Total Drip Acreage	1250	0	900	950	360	10
<b>Total Irrigated Acreage</b>		<b>1650</b>	<b>0</b>	<b>11625</b>	<b>950</b>	<b>1360</b>	<b>310</b>
Irrigation Power Unit Types	% Diesel	15%		30%		100%	80%
	% Gasoline				10%		
	% Electric	85%		70%	90%		20%
	% LP or Gas						
Irrigation Wells	Number						
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible	85%					
	% Centrifugal	15%					
% Axial Flow							
Pumps	% Stationary	100%			100%	100%	20%
	% Portable						80%

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1999	<i>County</i>	Beaufort	Berkeley	Calhoun	Charleston	Cherokee	Chester	
	<i>Contact</i>	York Glover	Frank Fitzsimons	Charles Davis	Roger Frances	David Parker	John Nance	
Irrigation by Crop	Alfalfa							
	Apples						2	
	Avocado							
	Barley							
	Beans & Peas							
	Berries							
	Citrus							
	Corn				2500			75
	Cotton				7000			125
	Flower Seeds							
	Grass Seeds							
	Grains							
	Grapes							0
	Hops							
	Lettuce							
	Melons		50		400			1
	Mint							
	Nursery				200			
	Nuts							
	Oats							
	Olives							
	Pasture/Hay Crop							20
	Pineapples							
	Potatoes							
	Rice							
	Small Fruits					60	5	2
	Sugar Cane							
	Sorghum							
	Soybeans				1500			
	Sugar Beets							
Tobacco								
Tree Fruits						1000	4	
Turfgrass Sod		400						
Vegetables		1200			850		9	
Wheat				800				
Other								

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1999	County	<i>Chesterfield</i>	Clarendon	Colleton	Darlington	Dillon	Dorchester
	Contact	<i>Sam Bass</i>	Greg Harvey	Marion Barnes	David Gunter	Vic Bethea	Birdie Crosby
Sprinkler	Side Roll/Wheel Line						
	Traveler		1000	50	600	100	20
	Solid Set	300					
	Hand Move			15			40
	Center Pivot/Linear		3000	100	1600	200	65
	%Impact		100%		75%		
	%LEPA				25%		
	%chemigating		20%				
Total Sprinkler Acreage	300	4000	165	2200	300	125	
Gravity/Flood	Flooding from Ditches						
	Open Ditch w/siphons						
	Gated Solid Pipe						
	% w/ surge valves						
	Layflat pipe						
	Seepage/Sub Irrig.		200				
	% using PAM						
Total Gravity Acreage	0	200	0	0	0	0	
Low Flow / Drip	Surface Microspray	300					
	Surface Drip	150	200	500			
	SDI		20		50	4	50
	Buried Perf. pipe						
	Total Drip Acreage	450	220	500	50	4	50
<b>Total Irrigated Acreage</b>		<b>750</b>	<b>4420</b>	<b>665</b>	<b>2250</b>	<b>304</b>	<b>175</b>
Irrigation Power Unit Types	% Diesel	30%	25%	50%	60%	50%	80%
	% Gasoline						
	% Electric	70%	75%	50%	40%	50%	20%
	% LP or Gas						
Irrigation Wells	Number					1	1
	Ave. Depth					200	250
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible				100%	50%	100%
	% Centrifugal					50%	
% Axial Flow							
Pumps	% Stationary		90%	90%	20%		100%
	% Portable	100%	10%	10%	80%	100%	

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1999	<i>County</i>	<i>Chesterfield</i>	<i>Clarendon</i>	<i>Colleton</i>	<i>Darlington</i>	<i>Dillon</i>	<i>Dorchester</i>	
	<i>Contact</i>	<i>Sam Bass</i>	<i>Greg Harvey</i>	<i>Marion Barnes</i>	<i>David Gunter</i>	<i>Vic Bethea</i>	<i>Birdie Crosby</i>	
Irrigation by Crop	Alfalfa							
	Apples							
	Avocado							
	Barley							
	Beans & Peas							
	Berries							
	Citrus							
	Corn			2000	100	600	100	80
	Cotton			2000		1000	100	
	Flower Seeds							
	Grass Seeds							
	Grains							
	Grapes			5				
	Hops							
	Lettuce							
	Melons		100		400			
	Mint							
	Nursery			5				15
	Nuts							
	Oats							
	Olives							
	Pasture/Hay Crop							
	Pineapples							
	Potatoes							
	Rice							
	Small Fruits			5				
	Sugar Cane							
	Sorghum							
	Soybeans			500		100	100	
	Sugar Beets							
Tobacco			200		300	100	30	
Tree Fruits		600					20	
Turfgrass Sod			600					
Vegetables		50	1000	50	200	4	50	
Wheat								
Other								

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1999	County	Edgefield	Fairfield	Florence	Georgetown	Greenville	Greenwood
	Contact	Greg Henderson	Mark Talbert	Tony Melton	Carlin Munnerlyn	Danny Howard	Kathryn White
Sprinkler	Side Roll/Wheel Line					40	
	Traveler	4300		1200	60		
	Solid Set	750	8	100	400		6
	Hand Move			800			20
	Center Pivot/Linear			250	200	25	
	%Impact			100%			
	%LEPA						
	%chemigating			100%			
Total Sprinkler Acreage	5050	8	2350	660	65	26	
Gravity/Flood	Flooding from Ditches			150	25		
	Open Ditch w/siphons						
	Gated Solid Pipe						
	% w/ surge valves						
	Layflat pipe					15	
	Seepage/Sub Irrig.			500			
	% using PAM						
Total Gravity Acreage	0	0	650	25	15	0	
Low Flow / Drip	Surface Microspray	1600					
	Surface Drip	85		200	300	41	1
	SDI						
	Buried Perf. pipe						
	Total Drip Acreage	1685	0	200	300	41	1
<b>Total Irrigated Acreage</b>		<b>6735</b>	<b>8</b>	<b>3200</b>	<b>985</b>	<b>121</b>	<b>27</b>
Irrigation Power Unit Types	% Diesel			25%	25%	61%	
	% Gasoline			25%	25%	19%	
	% Electric		100%	50%	50%	20%	100%
	% LP or Gas						
Irrigation Wells	Number						
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible						
	% Centrifugal						
% Axial Flow							
Pumps	% Stationary		100%		90%	80%	
	% Portable				10%	20%	

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1999	<i>County</i>	Edgefield	Fairfield	Florence	Georgetown	Greenville	Greenwood
	<i>Contact</i>	Greg Henderson	Mark Talbert	Tony Melton	Carlin Munnerlyn	Danny Howard	Kathryn White
Irrigation by Crop	Alfalfa						
	Apples						
	Avocado						
	Barley						
	Beans & Peas			150		34	
	Berries	30					
	Citrus						
	Corn	250				100	30
	Cotton	400			500		
	Flower Seeds						
	Grass Seeds						
	Grains					50	
	Grapes	55					
	Hops						
	Lettuce						
	Melons				100		15
	Mint						
	Nursery	600	8	100	300		5
	Nuts						
	Oats						
	Olives						
	Pasture/Hay Crop	300				200	
	Pineapples						
	Potatoes						
	Rice						
	Small Fruits				100		20
	Sugar Cane						
	Sorghum						
	Soybeans						
	Sugar Beets						
Tobacco				800	60		
Tree Fruits	4600					15	
Turfgrass Sod				400	450		
Vegetables	150			800		31	
Wheat					50		
Other							

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1999	County	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens
	Contact	Hugh Gray	Bruce Johnson	Tommy Walker	Andy Rollins	Michael Payne	Angela Nichols
Sprinkler	Side Roll/Wheel Line						
	Traveler	400	5000	100	400		300
	Solid Set		25	35			200
	Hand Move						25
	Center Pivot/Linear	2600		1050	800		
	%Impact				100%		
	%LEPA	15%					
	%chemigating	60%					
Total Sprinkler Acreage	3000	5025	1185	1200	0	525	
Gravity/Flood	Flooding from Ditches			60			
	Open Ditch w/siphons						
	Gated Solid Pipe						
	% w/ surge valves						
	Layflat pipe			250			
	Seepage/Sub Irrig.						
	% using PAM						
Total Gravity Acreage	0	0	310	0	0	0	
Low Flow / Drip	Surface Microspray						
	Surface Drip	15	15		10		800
	SDI	400					
	Buried Perf. pipe						
	Total Drip Acreage	415	15	0	10	0	800
<b>Total Irrigated Acreage</b>		<b>3415</b>	<b>5040</b>	<b>1495</b>	<b>1210</b>	<b>0</b>	<b>1325</b>
Irrigation Power Unit Types	% Diesel	20%	75%	50%	20%		20%
	% Gasoline		25%				
	% Electric	80%		50%	80%		80%
	% LP or Gas						
Irrigation Wells	Number						
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible				100%		
	% Centrifugal						
% Axial Flow							
Pumps	% Stationary	100%		95%	100%		90%
	% Portable		100%	5%			10%

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1999	<i>County</i>	Hampton	Horry	Jasper	Kershaw	Lancaster	Laurens	
	<i>Contact</i>	Hugh Gray	Bruce Johnson	Tommy Walker	Andy Rollins	Michael Payne	Angela Nichols	
Irrigation by Crop	Alfalfa							
	Apples							
	Avocado							
	Barley							
	Beans & Peas			5				
	Berries			30				
	Citrus							
	Corn		800	250	10	100		400
	Cotton		2025			200		
	Flower Seeds							
	Grass Seeds							
	Grains			250				
	Grapes			1				
	Hops							
	Lettuce			1				
	Melons		400	50	250			
	Mint							
	Nursery		5	50				30
	Nuts							
	Oats							
	Olives							
	Pasture/Hay Crop			50		100		
	Pineapples							
	Potatoes							
	Rice				50			
	Small Fruits			15				75
	Sugar Cane							
	Sorghum							
	Soybeans			250				
	Sugar Beets							
Tobacco			750					
Tree Fruits							700	
Turfgrass Sod		175	300	1185				
Vegetables		10	50		10			
Wheat			100					
Other								

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1999	County	Lee	Lexington	Marion	Marlboro	McCormick	Newberry
	Contact	Randy Cabbage	Powell Smith	Russell Duncan	Vic Bethea	Wallace Wood	Bryan Smith
Sprinkler	Side Roll/Wheel Line						
	Traveler	400	1600	4452	200	5	188
	Solid Set			2724		400	4
	Hand Move		300				
	Center Pivot/Linear	1200	8800	300	800		140
	%Impact	10%	93%		100%		100%
	%LEPA	90%	7%				
	%chemigating	15%	75%				
Total Sprinkler Acreage	1600	10700	7476	1000	405	332	
Gravity/Flood	Flooding from Ditches						
	Open Ditch w/siphons						
	Gated Solid Pipe			12			
	% w/ surge valves						
	Layflat pipe				200		
	Seepage/Sub Irrig.			3059			
	% using PAM						
Total Gravity Acreage	0	0	3071	200	0	0	
Low Flow / Drip	Surface Microspray						
	Surface Drip		35	52			4
	SDI				10		
	Buried Perf. pipe						
	Total Drip Acreage	0	35	52	10	0	4
<b>Total Irrigated Acreage</b>		<b>1600</b>	<b>10735</b>	<b>10599</b>	<b>1210</b>	<b>405</b>	<b>336</b>
Irrigation Power Unit Types	% Diesel	10%	25%				50%
	% Gasoline						
	% Electric	90%	75%	100%	100%	100%	50%
	% LP or Gas						
Irrigation Wells	Number				5		
	Ave. Depth				200		
	Ave Water Depth						
	% Vertical Line Shaft	10%					
	% Submersible	90%		100%	90%		
	% Centrifugal				10%		
% Axial Flow							
Pumps	% Stationary	80%	70%		100%	100%	50%
	% Portable	20%	30%	100%			50%

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1999	<i>County</i>	Lee	Lexington	Marion	Marlboro	McCormick	Newberry
	<i>Contact</i>	Randy Cabbage	Powell Smith	Russell Duncan	Vic Bethea	Wallace Wood	Bryan Smith
Irrigation by Crop	Alfalfa						
	Apples						
	Avocado						
	Barley						
	Beans & Peas		25				
	Berries						
	Citrus						
	Corn			2000	1500	200	170
	Cotton		3000	2000	500	600	80
	Flower Seeds						
	Grass Seeds						
	Grains						
	Grapes						
	Hops						
	Lettuce						
	Melons						
	Mint						
	Nursery						
	Nuts						
	Oats						
	Olives						
	Pasture/Hay Crop				414		18
	Pineapples						
	Potatoes						
	Rice						
	Small Fruits			30			4
	Sugar Cane						
	Sorghum						
	Soybeans			1000	150	300	60
	Sugar Beets						
Tobacco		200		2500	100		
Tree Fruits			150				
Turfgrass Sod							
Vegetables			1500	44	5	5	
Wheat			1000	50			
Other							

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1999	<i>County</i>	Oconee	Orangeburg	Pickens	Richland	Saluda	Spartanburg
	<i>Contact</i>	James Cummings	William Hair	Howard Hiller	John Oxner	Phil Perry	Jim Amick
Sprinkler	Side Roll/Wheel Line						
	Traveler		3500		150	3500	2200
	Solid Set			60		200	160
	Hand Move			20			
	Center Pivot/Linear		24650		700	400	70
	%Impact						
	%LEPA						
	%chemigating						
Total Sprinkler Acreage	0	28150	80	850	4100	2430	
Gravity/Flood	Flooding from Ditches		1000				
	Open Ditch w/siphons						
	Gated Solid Pipe						
	% w/ surge valves						
	Layflat pipe						
	Seepage/Sub Irrig.						
	% using PAM						
Total Gravity Acreage	0	1000	0	0	0	0	
Low Flow / Drip	Surface Microspray					250	
	Surface Drip	2	280	150	50	100	70
	SDI		60				210
	Buried Perf. pipe						
	Total Drip Acreage	2	340	150	50	350	280
<b>Total Irrigated Acreage</b>		<b>2</b>	<b>29490</b>	<b>230</b>	<b>900</b>	<b>4450</b>	<b>2710</b>
Irrigation Power Unit Types	% Diesel		3%	5%	50%	80%	85%
	% Gasoline						5%
	% Electric		97%	95%	50%	20%	8%
	% LP or Gas						2%
Irrigation Wells	Number						
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft				70%		
	% Submersible				30%		
	% Centrifugal						
% Axial Flow							
Pumps	% Stationary	99%	99%		10%	20%	15%
	% Portable	1%	1%		90%	80%	85%

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1999	<i>County</i>	Oconee	Orangeburg	Pickens	Richland	Saluda	Spartanburg	
	<i>Contact</i>	James Cummings	William Hair	Howard Hiller	John Oxner	Phil Perry	Jim Amick	
<b>Irrigation by Crop</b>	Alfalfa					50		
	Apples						60	
	Avocado							
	Barley							
	Beans & Peas							
	Berries			30			65	
	Citrus							
	Corn			11000		400	1000	50
	Cotton			14000			500	
	Flower Seeds							
	Grass Seeds							
	Grains					300		
	Grapes				5			10
	Hops							
	Lettuce							
	Melons						200	100
	Mint							
	Nursery			320	125	30		200
	Nuts			280				
	Oats							
	Olives							
	Pasture/Hay Crop				20		200	
	Pineapples							
	Potatoes							
	Rice							
	Small Fruits			30			10	10
	Sugar Cane							
	Sorghum					30		
	Soybeans			2400		300		
	Sugar Beets							
Tobacco								
Tree Fruits						2800	2000	
Turfgrass Sod			5200				70	
Vegetables			130	50	50	260	45	
Wheat			2000		125			
Other								

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1999	County	Sumter	Union	Williamsburg	York		1999
	Contact	Greg Harvey	Raymond Sligh	John Boswell	Henry Nunnery		State Totals
Sprinkler	Side Roll/Wheel Line						40
	Traveler	1000	35	400	110		36725
	Solid Set	100			80		5880
	Hand Move				20		1756
	Center Pivot/Linear	5000					81055
	%Impact	100%					41%
	%LEPA						18%
	%chemigating	40%					29%
	Total Sprinkler Acreage	6100	35	400	210		125456
Gravity/Flood	Flooding from Ditches						1235
	Open Ditch w/siphons						0
	Gated Solid Pipe						12
	% w/ surge valves						0%
	Layflat pipe						665
	Seepage/Sub Irrig.						3759
	% using PAM						0%
	Total Gravity Acreage	0	0	0	0		5671
Low Flow / Drip	Surface Microspray	5					2160
	Surface Drip	25	10		60		11760
	SDI	5					914
	Buried Perf. pipe						100
	Total Drip Acreage	35	10	0	60		14934
<b>Total Irrigated Acreage</b>		<b>6135</b>	<b>45</b>	<b>400</b>	<b>270</b>		<b>146061</b>
Irrigation Power Unit Types	% Diesel	20%		100%	70%		28%
	% Gasoline		50%		15%		2%
	% Electric	80%	50%		15%		70%
	% LP or Gas						0%
Irrigation Wells	Number						7
	Ave. Depth						
	Ave Water Depth						
	% Vertical Line Shaft						
	% Submersible						
	% Centrifugal						
Pumps	% Stationary	100%	100%		5%		74%
	% Portable			100%	95%		26%

# 1999 South Carolina Irrigation Survey

State Irrigation totals are on pages 15 and 16

(Counties in italics are 1998 data)

1999	<i>County</i>	Sumter	Union	Williamsburg	York		1999	
	<i>Contact</i>	Greg Harvey	Raymond Sligh	John Boswell	Henry Nunnery		State Totals	
Irrigation by Crop	Alfalfa						50	
	Apples						62	
	Avocado						0	
	Barley						0	
	Beans & Peas						214	
	Berries						160	
	Citrus						0	
	Corn		3000					34445
	Cotton		3000			60		45415
	Flower Seeds							0
	Grass Seeds							100
	Grains							600
	Grapes		2					93
	Hops							0
	Lettuce							1
	Melons					5		7871
	Mint							0
	Nursery		2	10		100		2216
	Nuts							340
	Oats							0
	Olives							0
	Pasture/Hay Crop			35				2587
	Pineapples							0
	Potatoes							0
	Rice							50
	Small Fruits		20			30		441
	Sugar Cane							0
	Sorghum							30
	Soybeans							9160
	Sugar Beets							0
	Tobacco		50		300			5390
	Tree Fruits					75		12264
Turfgrass Sod				100			9290	
Vegetables		2000			55		9603	
Wheat							6225	
Other							170	