

Table 38. Selected Crops Irrigated and Harvested in the Open and Irrigated Pastureland by Primary Method of Water Distribution – United States: 2018

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Irrigated crop	All methods		Pressure systems		Gravity systems					
	Farms	Acres	Farms	Acres	Farms	Acres				
Corn for grain or seed	31,828	11,610,238	26,186	10,052,218	5,642	1,558,020				
Corn for silage or greenchop	7,930	1,648,789	4,654	991,891	3,276	656,898				
Sorghum for grain or seed	1,594	286,851	1,220	228,197	374	58,654				
Wheat for grain or seed	8,760	2,311,703	6,363	1,831,164	2,397	480,539				
Soybeans for beans	21,316	8,215,031	16,326	4,496,694	4,990	3,718,337				
Beans, dry edible	2,275	416,608	1,558	328,169	717	88,439				
Rice	3,813	2,370,113	33	10,600	3,780	2,359,513				
Other small grains (barley, oats, rye, etc.)	5,767	1,026,289	3,372	713,678	2,395	312,611				
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	48,697	6,165,406	25,263	3,790,205	23,434	2,375,201				
All other hay (dry hay, greenchop, and silage)	25,402	3,263,946	11,877	1,212,542	13,525	2,051,404				
Peanuts	1,701	460,155	1,629	447,984	72	12,171				
Cotton	6,918	3,697,167	4,709	2,325,716	2,209	1,371,451				
Land in vegetables	23,087	3,127,705	20,405	2,741,028	2,682	386,677				
Selected vegetables:										
Sweet corn	5,476	285,749	4,725	262,282	751	23,468				
Tomatoes in the open	8,879	288,114	7,793	249,269	1,086	38,846				
Lettuce and romaine	4,589	277,616	4,230	217,153	359	60,464				
Potatoes, excluding sweet potatoes	5,361	866,288	4,881	846,915	480	19,373				
All berries	11,562	219,254	10,850	211,611	712	7,643				
Land in orchards, vineyards, and nut trees	52,959	5,021,860	45,031	4,655,112	7,928	366,748				
Nursery and other horticultural crops (see text)	15,623	581,936	14,971	539,945	652	41,991				
All other crops (see text)	7,006	1,783,325	5,229	967,090	1,777	816,235				
Irrigated pastureland, all types	51,644	4,004,854	19,940	998,032	31,704	3,006,822				
	Pressure irrigation distribution systems ¹									
Irrigated crop	Hand move		Solid or permanent set		Side roll or wheel line		Big gun		Low-flow irrigation (drip, trickle, or micro sprinklers)	
	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²
Corn for grain or seed	0.3	(Z)	0.5	0.1	0.7	0.4	1.4	0.3	0.7	0.3
Corn for silage or greenchop	1.1	(Z)	0.2	0.4	0.8	0.3	4.0	1.8	0.8	0.3
Sorghum for grain or seed	1.6	(Z)	2.1	1.6	0.2	0.1	0.3	(Z)	2.3	0.9
Wheat for grain or seed	1.3	0.9	0.6	0.3	7.1	4.9	0.4	0.1	0.7	0.9
Soybeans for beans	-	-	0.2	(Z)	0.2	0.1	1.0	0.2	0.9	0.2
Beans, dry edible	4.1	0.5	0.3	(Z)	7.8	6.0	1.1	0.5	8.4	4.3
Rice	-	-	(Z)	(D)	0.3	(D)	-	-	-	-
Other small grains (barley, oats, rye, etc.)	3.0	0.6	0.7	0.5	14.3	6.1	0.2	(Z)	0.3	0.3
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	5.5	1.0	1.0	0.2	16.2	10.7	1.3	0.4	0.2	0.6
All other hay (dry hay, greenchop, and silage)	7.4	0.8	2.4	0.4	8.7	4.4	4.6	1.7	1.1	0.4
Peanuts	-	-	-	-	1.4	0.4	0.4	1.8	4.5	0.1
Cotton	-	-	1.0	1.0	0.9	0.3	0.5	0.4	4.7	2.7
Land in vegetables	14.1	1.4	4.5	5.0	1.4	2.0	3.3	2.9	50.2	30.3
Selected vegetables:										
Sweet corn	17.4	2.2	5.9	1.7	1.1	0.8	10.2	5.3	33.1	9.6
Tomatoes in the open	14.2	2.0	2.5	0.6	0.2	(Z)	1.8	0.1	62.8	80.8
Lettuce and romaine	18.5	3.4	5.8	10.4	0.3	(Z)	1.4	8.9	58.0	40.3
Potatoes, excluding sweet potatoes	17.3	0.9	5.0	1.5	3.1	5.8	3.4	0.8	42.8	0.9
All berries	13.3	1.7	14.9	38.8	0.3	(Z)	1.3	2.8	57.3	50.0
Land in orchards, vineyards, and nut trees	3.6	0.5	11.4	10.3	0.2	(Z)	0.2	(Z)	65.5	78.5
Nursery and other horticultural crops (see text)	23.5	5.2	15.6	13.5	1.7	5.8	3.1	9.8	39.6	19.6
All other crops (see text)	9.3	1.5	2.9	2.0	4.2	3.3	6.5	3.8	20.0	5.5
Irrigated pastureland, all types	11.9	1.8	5.1	0.5	7.2	4.9	3.5	1.7	0.8	0.2

See footnote(s) at end of table.

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Table 38. Selected Crops Irrigated and Harvested in the Open and Irrigated Pastureland by Primary Method of Water Distribution – United States: 2018 (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Irrigated crop	Pressure irrigation distribution systems ¹ - con.									
	Center pivot and linear move tower systems								Other pressure systems	
	Less than 15 psi		15 to 29 psi		30 to 59 psi		60 psi or more			
	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²
Corn for grain or seed	3.4	3.5	22.5	25.6	46.8	52.3	5.7	4.0	0.3	0.1
Corn for silage or greenchop	2.6	3.4	18.8	23.0	23.1	24.8	6.2	5.9	1.2	0.2
Sorghum for grain or seed	13.9	13.3	39.1	47.1	16.7	16.3	0.3	0.2	-	-
Wheat for grain or seed	6.6	5.4	24.5	30.1	26.6	31.6	4.3	4.9	0.6	0.2
Soybeans for beans	2.3	1.4	17.0	12.3	48.9	37.4	5.8	3.2	0.2	(Z)
Beans, dry edible	1.0	2.0	12.2	20.1	29.4	41.9	4.1	3.3	0.1	0.1
Rice	0.3	0.1	-	-	-	-	-	-	0.2	0.2
Other small grains (barley, oats, rye, etc.)	1.9	3.2	13.2	19.3	18.8	34.7	4.5	3.7	1.5	1.2
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	1.8	2.6	7.8	15.4	14.5	26.2	2.6	3.7	0.9	0.6
All other hay (dry hay, greenchop, and silage)	2.9	4.0	7.4	12.2	8.9	11.7	1.5	1.1	1.8	0.5
Peanuts	8.0	3.3	35.3	33.5	42.1	55.9	4.1	2.4	-	-
Cotton	12.0	12.1	29.0	29.6	18.4	15.7	1.7	1.1	-	-
Land in vegetables	1.2	1.1	3.0	11.0	5.0	27.6	2.0	4.9	3.5	1.4
Selected vegetables:										
Sweet corn	0.6	0.1	4.5	16.9	7.7	39.8	4.5	13.7	1.4	1.6
Tomatoes in the open	0.7	(Z)	1.6	0.1	0.5	1.2	0.7	1.1	2.7	0.4
Lettuce and romaine	0.1	(Z)	1.4	0.3	1.1	9.0	0.8	2.4	4.8	3.5
Potatoes, excluding sweet potatoes	0.9	1.4	4.6	26.9	8.9	51.1	2.4	8.3	2.7	0.1
All berries	-	-	0.6	0.2	0.9	0.5	0.4	0.2	4.9	2.4
Land in orchards, vineyards, and nut trees	(Z)	(Z)	0.1	0.2	0.2	0.1	0.1	(Z)	3.8	3.0
Nursery and other horticultural crops (see text)	0.4	0.9	1.7	11.9	2.3	18.8	0.5	1.8	7.5	5.3
All other crops (see text)	1.0	0.7	12.4	15.4	14.8	20.6	2.3	1.2	1.2	0.3
Irrigated pastureland, all types	0.7	1.0	1.9	5.0	3.6	7.2	1.1	1.5	2.9	1.1
Irrigated crop	Gravity irrigation distribution systems ¹									
	Down rows or furrows from unlined open ditches		Down rows or furrows from lined open ditches		Down rows or furrows from poly pipe, lay-flat tubing, or above or underground pipe		Controlled flooding within field borders from unlined open ditches			
	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²
Corn for grain or seed	3.1	1.2	1.3	0.5	12.1	10.6	0.7	0.8	0.8	0.8
Corn for silage or greenchop	8.7	7.0	5.0	4.7	11.2	8.2	4.9	4.6	4.6	4.6
Sorghum for grain or seed	3.8	2.5	3.6	(D)	12.5	11.3	0.4	(D)	(D)	(D)
Wheat for grain or seed	5.2	5.7	5.2	2.9	6.3	3.1	6.1	4.6	4.6	4.6
Soybeans for beans	1.0	0.6	(Z)	(Z)	21.5	43.7	0.2	0.2	0.2	0.2
Beans, dry edible	10.6	8.1	10.7	4.7	7.2	5.6	0.9	0.8	0.8	0.8
Rice	2.2	1.4	0.5	0.3	5.5	4.0	37.0	36.4	36.4	36.4
Other small grains (barley, oats, rye, etc.)	5.1	3.4	3.4	2.6	7.3	3.9	14.0	12.9	12.9	12.9
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	8.2	4.8	3.2	2.6	9.1	4.4	14.5	15.8	15.8	15.8
All other hay (dry hay, greenchop, and silage)	8.2	6.8	1.4	2.4	5.7	3.3	18.8	29.8	29.8	29.8
Peanuts	-	-	-	-	2.8	2.0	-	-	-	-
Cotton	5.7	5.5	4.7	5.1	17.3	24.3	1.5	1.2	1.2	1.2
Land in vegetables	3.2	4.7	1.5	3.8	4.0	2.9	0.9	0.2	0.2	0.2
Selected vegetables:										
Sweet corn	5.7	1.1	2.3	1.2	3.0	0.8	0.3	1.6	1.6	1.6
Tomatoes in the open	4.5	10.2	0.6	(Z)	3.7	3.2	1.1	(Z)	(Z)	(Z)
Lettuce and romaine	3.1	4.2	1.4	11.0	1.5	4.6	0.2	(D)	(D)	(D)
Potatoes, excluding sweet potatoes	2.6	1.4	0.6	(Z)	2.9	0.8	0.4	(Z)	(Z)	(Z)
All berries	1.1	0.1	-	-	2.2	0.2	0.4	1.4	1.4	1.4
Land in orchards, vineyards, and nut trees	2.8	0.7	0.5	0.4	3.6	1.9	2.7	0.7	0.7	0.7
Nursery and other horticultural crops (see text)	0.7	0.7	0.7	3.5	1.8	1.2	0.2	0.2	0.2	0.2
All other crops (see text)	8.7	9.7	4.6	3.8	5.8	4.9	3.2	26.4	26.4	26.4
Irrigated pastureland, all types	6.9	4.8	1.7	2.5	5.4	2.5	15.4	23.3	23.3	23.3

See footnote(s) at end of table.

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Table 38. Selected Crops Irrigated and Harvested in the Open and Irrigated Pastureland by Primary Method of Water Distribution – United States: 2018 (continued)

[Excludes area under protection and institutional, research, and experimental farms. For meaning of abbreviations and symbols see introductory text.]

Irrigated crop	Gravity irrigation distribution systems ¹ - con.									
	Controlled flooding within field borders from lined open ditches		Controlled flooding within field borders from poly pipe, lay-flat tubing, or above ground pipe		Controlled flooding within field borders from underground pipe		Uncontrolled flooding of rangeland, pastureland, etc. including open discharge from well or pump		Other gravity systems	
	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²	Percent of farms	Percent of acres ²
Corn for grain or seed	0.1	(Z)	0.3	0.2	0.1	0.1	-	-	-	-
Corn for silage or greenchop	1.7	1.8	0.7	0.4	8.7	12.6	-	-	0.6	0.6
Sorghum for grain or seed	0.4	5.2	0.7	0.4	2.1	0.2	-	-	-	-
Wheat for grain or seed	2.5	2.7	0.6	0.3	1.3	1.3	0.2	(D)	(Z)	(D)
Soybeans for beans	-	-	0.3	0.3	0.3	0.3	-	-	-	-
Beans, dry edible	1.5	1.5	-	-	0.6	0.6	-	-	-	-
Rice	3.0	2.6	23.3	25.1	26.4	28.6	0.4	0.1	0.8	1.0
Other small grains (barley, oats, rye, etc.)	4.2	1.9	1.4	0.5	3.5	3.5	1.9	1.7	0.8	0.1
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	4.8	5.6	2.0	1.2	2.2	2.3	2.7	1.4	1.4	0.5
All other hay (dry hay, greenchop, and silage)	3.6	3.5	3.5	1.4	2.4	4.8	8.2	10.3	1.5	0.5
Peanuts	-	-	-	-	-	-	1.5	0.6	-	-
Cotton	0.5	0.3	0.8	0.4	0.8	(Z)	0.4	0.1	0.3	0.1
Land in vegetables	0.2	0.3	0.6	0.1	(Z)	(D)	0.1	(Z)	1.1	0.3
Selected vegetables:										
Sweet corn	0.1	(D)	1.1	0.8	-	-	-	-	1.2	(D)
Tomatoes in the open	-	-	1.0	(Z)	-	-	0.1	(Z)	1.4	(Z)
Lettuce and romaine	(Z)	(D)	-	-	-	-	-	-	1.6	(Z)
Potatoes, excluding sweet potatoes	-	-	0.6	(Z)	-	-	0.1	(Z)	1.8	(Z)
All berries	0.6	0.8	0.7	(Z)	0.2	1.0	(Z)	(Z)	0.8	(Z)
Land in orchards, vineyards, and nut trees	1.5	1.2	0.5	0.4	2.5	1.9	0.4	0.1	0.5	(Z)
Nursery and other horticultural crops (see text)	(Z)	0.8	0.1	0.8	-	-	0.1	(Z)	0.4	(Z)
All other crops (see text)	1.1	0.4	0.1	(Z)	0.7	0.3	0.7	0.1	0.5	0.2
Irrigated pastureland, all types	2.2	1.8	2.3	1.0	2.1	3.6	23.3	34.7	2.0	0.9

¹ Percentages are calculated across all methods by irrigated crop and primary method. Data not comparable to previous farm and ranch irrigation survey published data.

² The sum of percent acres irrigated across systems for a crop may not add to 100 percent.