

Table 41. Irrigated Items in the Open by Primary Method of Water Distribution - United States: 2023

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

Irrigated item	All methods		Pressure systems		Gravity systems					
	Farms	Acres	Farms	Acres	Farms	Acres				
Corn for grain or seed	30,089	11,641,724	25,243	9,701,551	4,846	1,940,173				
Corn for silage or greenchop	6,819	1,909,521	4,297	1,252,923	2,522	656,598				
Sorghum for grain or seed	2,063	430,947	1,714	378,958	349	51,989				
Wheat for grain or seed	7,960	2,143,635	6,441	1,863,002	1,519	280,633				
Soybeans for beans	20,417	8,190,426	15,968	4,068,288	4,449	4,122,138				
Beans, dry edible	1,647	314,147	1,161	269,005	486	45,142				
Rice	3,550	2,268,904	70	45,644	3,480	2,223,260				
Other small grains (barley, oats, rye, etc.)	4,689	1,141,657	3,222	860,715	1,467	280,942				
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	39,673	5,408,531	22,149	3,368,679	17,524	2,039,852				
All other hay (dry hay, greenchop, and silage)	25,421	3,196,249	13,110	1,509,007	12,311	1,687,242				
Peanuts	1,875	540,245	1,815	514,215	60	26,030				
Cotton	5,397	2,584,479	4,015	1,625,955	1,382	958,524				
Land in vegetables	23,547	2,986,059	21,379	2,657,770	2,168	328,289				
Selected vegetables:										
Sweet corn	5,639	316,789	5,135	286,149	504	30,640				
Tomatoes in the open	9,200	394,318	8,626	378,905	574	15,413				
Lettuce and romaine	5,352	309,785	4,968	230,257	384	79,527				
Potatoes, excluding sweet potatoes	5,661	920,681	5,386	916,235	275	4,446				
All berries	11,008	246,361	10,367	232,604	641	13,757				
Land in orchards, vineyards, and nut trees	48,784	5,105,937	42,735	4,756,489	6,049	349,449				
Nursery and other horticultural crops	17,491	598,980	16,922	582,360	569	16,619				
All other crops	6,890	1,452,288	5,720	773,753	1,170	678,535				
Irrigated pastureland, all types	38,715	3,043,010	18,156	999,499	20,559	2,043,511				
All other irrigated land types such as failed cropland, idle land, and land in summer fallow (see text)	3,984	482,367	2,866	356,831	1,118	125,536				
	Pressure irrigation distribution systems ¹									
Irrigated item	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)	0.3	0.5	0.6	0.2	1.3	0.1	1.2	0.3
Corn for silage or greenchop	0.7	(Z)	0.4	0.5	1.0	0.9	4.7	2.0	1.4	0.9
Sorghum for grain or seed	0.1	(D)	1.1	0.2	1.4	0.1	1.1	(D)	3.4	3.5
Wheat for grain or seed	0.1	(Z)	0.7	0.3	6.3	3.3	1.5	0.2	2.2	1.2
Soybeans for beans	0.1	(Z)	0.5	0.3	0.6	0.1	1.3	0.2	1.0	0.2
Beans, dry edible	2.4	0.2	2.4	0.7	5.0	3.2	0.5	0.3	7.6	4.9
Rice	0.4	0.5	-	-	-	-	-	-	-	-
Other small grains (barley, oats, rye, etc.)	3.4	0.3	1.4	2.7	12.3	4.5	3.1	0.9	0.7	0.6
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	5.8	0.4	1.1	0.5	15.8	8.8	1.9	0.8	0.7	1.2
All other hay (dry hay, greenchop, and silage)	6.8	1.0	2.8	1.1	11.3	4.2	3.9	1.6	1.0	0.4
Peanuts	-	-	0.2	0.1	1.4	0.3	1.5	0.5	4.9	2.5
Cotton	-	-	0.9	0.2	0.5	(D)	(Z)	(D)	9.4	7.7
Land in vegetables	18.9	0.5	4.5	4.6	1.2	1.7	2.9	2.1	50.4	32.4
Selected vegetables:										
Sweet corn	20.5	0.5	6.4	0.9	0.9	1.2	9.4	7.3	37.3	3.7
Tomatoes in the open	19.2	0.2	4.5	1.1	(Z)	(D)	1.3	0.2	63.8	93.7
Lettuce and romaine	17.4	5.5	6.0	7.1	0.7	(D)	1.4	(D)	60.5	52.8
Potatoes, excluding sweet potatoes	18.6	0.4	6.3	0.7	0.5	3.3	3.0	0.7	44.0	1.8
All berries	12.6	1.7	15.4	28.1	0.3	0.1	0.9	1.8	60.6	58.6
Land in orchards, vineyards, and nut trees	5.8	0.2	11.1	10.0	0.2	0.1	0.3	0.1	67.9	81.8
Nursery and other horticultural crops	26.6	3.5	12.8	11.2	1.6	5.0	3.0	8.9	43.9	27.9
All other crops	12.2	0.3	4.9	0.9	5.5	5.2	6.0	5.2	29.8	6.8
Irrigated pastureland, all types	15.2	1.8	7.2	0.9	7.3	3.9	4.1	1.9	1.5	7.6
All other irrigated land types such as failed cropland, idle land, and land in summer fallow (see text)	7.1	0.2	6.9	1.1	5.9	2.1	3.4	2.4	14.9	4.5

See footnote(s) at end of table.

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Table 41. Irrigated Items in the Open by Primary Method of Water Distribution - United States: 2023 (continued)

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

Irrigated item	Pressure irrigation distribution systems ¹ - con.									
	Center pivot and linear move tower systems								Other pressure systems including hydroponic	
	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	3.3	3.3	24.0	27.6	47.2	47.7	5.6	3.8	(Z)	(Z)
Corn for silage or greenchop	7.0	7.9	16.6	21.3	26.7	28.1	4.2	4.4	0.3	(Z)
Sorghum for grain or seed	24.0	22.7	36.9	50.9	14.5	10.6	0.5	0.1	-	-
Wheat for grain or seed	9.5	9.0	29.3	38.4	26.7	30.0	4.3	4.4	0.3	0.1
Soybeans for beans	2.1	0.8	19.7	12.4	47.5	32.8	5.2	2.8	(Z)	(Z)
Beans, dry edible	3.1	3.8	11.4	22.9	35.0	44.4	3.0	5.3	-	-
Rice	-	-	-	-	1.1	0.8	0.4	0.8	-	-
Other small grains (barley, oats, rye, etc.)	2.8	2.3	18.1	27.4	23.1	29.6	3.3	6.9	0.5	0.2
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	1.9	3.6	8.9	13.8	16.4	28.0	3.3	5.2	0.1	(Z)
All other hay (dry hay, greenchop, and silage)	3.8	6.0	9.0	15.7	11.0	14.5	1.7	2.8	0.5	(Z)
Peanuts	3.5	4.7	27.1	35.1	53.9	50.2	4.4	1.6	-	-
Cotton	14.1	12.7	21.8	23.4	23.3	16.8	4.4	2.0	-	-
Land in vegetables	0.9	1.6	3.0	15.8	6.1	22.9	1.8	6.7	1.0	0.8
Selected vegetables:										
Sweet corn	1.7	2.5	4.3	37.6	8.1	31.3	1.4	5.3	1.0	(Z)
Tomatoes in the open	0.4	(Z)	1.7	0.2	2.3	0.4	0.1	(D)	0.4	(D)
Lettuce and romaine	0.4	(Z)	2.4	0.5	2.0	(D)	0.4	1.1	1.7	3.7
Potatoes, excluding sweet potatoes	1.0	2.9	4.9	30.8	11.4	43.6	4.2	15.3	1.2	(Z)
All berries	0.6	0.8	0.6	0.3	1.5	0.7	0.2	0.5	1.4	1.8
Land in orchards, vineyards, and nut trees	0.3	(D)	0.8	0.2	0.5	0.4	(Z)	(D)	0.6	0.2
Nursery and other horticultural crops	0.6	1.0	1.8	12.7	2.9	21.1	0.5	3.9	3.0	2.0
All other crops	1.5	2.0	8.7	11.8	11.8	19.2	1.2	1.3	1.4	0.6
Irrigated pastureland, all types	1.5	1.8	2.6	5.6	5.5	8.9	0.6	0.3	1.4	0.2
All other irrigated land types such as failed cropland, idle land, and land in summer fallow (see text)	3.4	4.3	11.4	27.6	14.0	23.9	2.3	2.1	2.6	5.7
Irrigated item	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	1.7	1.3	0.8	0.4	12.9	14.6	0.5	0.2	0.5	0.2
Corn for silage or greenchop	9.2	8.5	3.3	3.6	11.3	6.5	4.1	4.7	4.1	4.7
Sorghum for grain or seed	4.2	0.8	1.6	0.5	8.5	9.8	1.2	0.1	1.2	0.1
Wheat for grain or seed	4.7	4.2	2.2	1.9	4.1	1.3	5.6	3.7	5.6	3.7
Soybeans for beans	0.9	1.5	0.1	0.1	20.4	48.6	0.2	0.1	0.2	0.1
Beans, dry edible	4.6	3.4	7.3	3.8	14.4	6.1	3.2	1.1	3.2	1.1
Rice	0.8	0.9	0.6	0.1	7.0	6.4	39.6	37.0	39.6	37.0
Other small grains (barley, oats, rye, etc.)	5.7	5.6	3.0	1.7	5.1	3.4	7.8	5.6	7.8	5.6
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	6.9	4.0	2.1	2.4	8.4	2.9	12.9	12.7	12.9	12.7
All other hay (dry hay, greenchop, and silage)	5.2	6.1	1.1	1.1	6.3	3.0	18.6	24.3	18.6	24.3
Peanuts	-	-	0.4	0.1	2.8	4.7	-	-	-	-
Cotton	3.9	2.8	3.8	3.8	15.6	27.3	0.5	2.1	0.5	2.1
Land in vegetables	1.9	3.1	1.4	4.2	3.8	2.4	0.7	0.5	0.7	0.5
Selected vegetables:										
Sweet corn	1.5	2.0	2.7	5.4	4.0	(D)	-	-	-	-
Tomatoes in the open	1.2	3.7	0.3	(Z)	3.7	(Z)	-	-	-	-
Lettuce and romaine	0.9	3.9	1.0	14.0	4.7	3.5	(Z)	(D)	(Z)	(D)
Potatoes, excluding sweet potatoes	0.8	0.3	0.1	(Z)	3.8	(Z)	0.1	0.1	0.1	0.1
All berries	0.6	(Z)	0.2	(Z)	2.5	0.2	1.5	2.7	1.5	2.7
Land in orchards, vineyards, and nut trees	1.5	0.7	0.7	0.7	3.1	1.5	2.9	1.0	2.9	1.0
Nursery and other horticultural crops	0.6	1.4	0.3	0.4	1.4	0.6	0.3	(Z)	0.3	(Z)
All other crops	4.5	6.2	1.9	2.8	5.3	6.6	2.4	14.5	2.4	14.5
Irrigated pastureland, all types	6.9	6.3	0.8	0.4	5.4	5.1	15.6	24.7	15.6	24.7
All other irrigated land types such as failed cropland, idle land, and land in summer fallow (see text)	5.2	7.9	0.1	(D)	8.3	2.7	6.0	9.3	6.0	9.3

See footnote(s) at end of table.

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Table 41. Irrigated Items in the Open by Primary Method of Water Distribution - United States: 2023 (continued)

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

Irrigated item	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	0.3	0.1	(Z)	(Z)	-	-	-	-	(Z)	(Z)
Corn for silage or greenchop	3.5	2.9	1.3	1.5	4.2	6.7	-	-	-	-
Sorghum for grain or seed	-	-	0.2	0.7	1.3	0.2	-	-	-	-
Wheat for grain or seed	2.0	1.7	(Z)	(D)	0.1	(D)	0.4	0.1	-	-
Soybeans for beans	0.1	(Z)	0.1	(Z)	-	-	-	-	(Z)	(Z)
Beans, dry edible	-	-	-	-	-	-	-	-	-	-
Rice	6.9	5.8	23.3	28.1	19.2	18.9	0.5	0.8	-	-
Other small grains (barley, oats, rye, etc.)	4.4	2.8	2.2	2.6	1.9	2.8	1.2	0.3	-	-
Alfalfa and alfalfa mixtures (dry hay, greenchop, and silage)	5.1	8.7	2.6	1.5	1.8	2.3	3.6	2.3	0.8	0.8
All other hay (dry hay, greenchop, and silage)	2.7	3.3	3.2	1.2	1.4	2.5	8.8	10.5	1.1	0.8
Peanuts	-	-	-	-	-	-	-	-	-	-
Cotton	1.1	0.5	0.6	0.6	-	-	-	-	-	-
Land in vegetables	0.4	0.4	0.2	(Z)	0.6	0.1	0.2	(D)	0.2	(D)
Selected vegetables:										
Sweet corn	-	-	(Z)	(D)	0.4	(Z)	-	-	0.2	(D)
Tomatoes in the open	-	-	0.3	(Z)	0.6	0.2	0.1	(Z)	0.1	(Z)
Lettuce and romaine	0.4	(D)	-	-	-	-	0.1	(Z)	-	-
Potatoes, excluding sweet potatoes	-	-	0.1	(Z)	-	-	-	-	-	-
All berries	0.4	1.7	0.2	0.1	0.2	0.7	-	-	0.3	0.2
Land in orchards, vineyards, and nut trees	0.8	0.6	0.8	0.7	2.1	1.4	0.3	0.2	0.2	(Z)
Nursery and other horticultural crops	0.1	0.2	(Z)	0.1	(Z)	(Z)	0.1	(Z)	0.4	(Z)
All other crops	0.9	2.3	(Z)	(D)	1.3	(D)	-	-	0.6	13.3
Irrigated pastureland, all types	2.8	1.6	2.1	0.9	1.9	2.1	16.3	25.0	1.2	1.1
All other irrigated land types such as failed cropland, idle land, and land in summer fallow (see text)	0.7	(D)	0.2	(Z)	1.5	1.5	5.6	3.0	0.6	(Z)

¹ For each irrigated crop, percentages are calculated by evaluating each primary method as a percentage of all primary methods.

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