

CENSUS OF IRRIGATION—UNITED STATES SUMMARY

TABLE 11.—DAMS, BY MATERIAL, 1940 AND 1930

[For the 17 western States and Arkansas and Louisiana]

MATERIAL	1940		1930	
	Diversion	Storage	Diversion	Storage
	Number	Number	Number	Number
Total.....	34,544	4,607	21,047	2,949
Concrete or masonry.....	3,666	409	2,380	362
Timber.....	4,595	72	3,077	.....
Earth and rock.....	18,032	3,795	¹ 12	1,713
Other and mixed.....	² 7,766	225	¹ 15,675	718
Not reported.....	485	106	803	156

¹ Revised.² Principally temporary dams, replaced annually.

TABLE 12.—PUMPING PLANTS, BY KIND OF MOTIVE POWER AND TYPE OF PUMP, 1940; AND TOTAL NUMBER AND CAPACITY, 1930

[For the 17 western States and Arkansas and Louisiana]

PUMPS BY KIND OF POWER EMPLOYED	Pumps	Proportion of total number	Rated capacity of pumps	Proportion of total capacity	Average lift of pumps	MOTIVE POWER BY TYPE OF PUMP EMPLOYED	Prime movers	Proportion of total number	Rated capacity of movers	Proportion of total capacity
Total, 1940.....	78,528	100.0	75,802,998	100.0	51	Total, 1940.....	78,293	100.0	1,762,687	100.0
Electric motor.....	50,597	64.4	43,527,320	57.4	55	Centrifugal pump.....	30,792	39.3	597,067	33.9
Centrifugal.....	19,208	24.5	21,333,038	28.1	31	Electric.....	17,869	22.8	319,348	18.1
Turbine.....	28,506	36.3	20,861,980	27.5	70	Internal-combustion.....	12,683	16.2	241,186	13.7
Plunger.....	2,537	3.2	173,528	0.2	94	Other.....	240	0.3	36,533	2.1
Other.....	346	0.4	1,158,774	1.5	55	Turbine pump.....	34,584	44.2	901,137	51.1
Internal-combustion engine.....	21,533	27.4	20,532,240	27.1	42	Electric.....	26,911	34.4	609,379	34.6
Centrifugal.....	12,750	16.2	12,594,513	16.6	26	Internal-combustion.....	7,607	9.7	287,433	16.3
Turbine.....	7,285	9.3	6,951,383	9.2	69	Other.....	66	0.1	4,325	0.2
Plunger.....	1,043	1.3	85,167	0.1	63	Plunger pump.....	4,212	5.4	17,553	1.0
Other.....	455	0.6	901,177	1.2	32	Electric.....	2,094	2.7	9,864	0.6
Other kinds of motive power.....	1,213	1.5	1,842,277	2.4	63	Internal-combustion.....	1,074	1.4	5,804	0.3
Centrifugal.....	178	0.2	1,668,451	2.2	28	Other.....	1,044	1.3	1,655	0.1
Turbine.....	53	0.1	139,430	0.2	56	Other and mixed types of pumps.....	8,705	11.1	246,930	14.0
Plunger.....	910	1.2	15,476	(¹)	72	Electric.....	6,559	8.4	179,333	10.2
Other.....	72	0.1	18,920	(¹)	39	Internal-combustion.....	1,851	2.4	53,570	3.0
Mixed kinds of motive power.....	5,186	6.6	9,901,161	13.1	50	Other.....	295	0.4	14,027	0.8
Centrifugal.....	2,311	2.9	6,440,390	8.5	32	Total, 1930.....	² 59,344	.....	1,283,419	.....
Turbine.....	2,360	3.0	2,793,235	3.7	69	Increase or decrease (-) 1930-1940.....	18,949	.....	479,268	.....
Plunger.....	397	0.5	25,249	(¹)	61					
Other.....	117	0.1	642,287	0.8	39					
Total, 1930.....	61,445	.....	57,244,859	.....	51					
Increase or decrease (-) 1930-1940..	17,083	.....	18,558,139	.....	.....			

¹ Less than one-tenth of 1 percent.² Number of pumping plants.

TABLE 13.—PIPE LINES, BY MATERIAL, SIZE, AND LENGTH: 1940 AND 1930

[For the 17 western States and Arkansas and Louisiana]

MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940	MATERIAL AND SIZE (DIAMETER)	LENGTH		Increase or decrease (-) 1930-1940
	1940 ¹	1930 ²			1940 ¹	1930 ²	
Total.....	Miles 28,584.9	Miles ³ 17,363.1	Percent 64.6	Wood-stave:	Miles	Miles	Percent
Concrete:				1 to 12 inches.....	808.5	593.4	36.2
1 to 12 inches.....	14,126.6	7,519.1	87.9	13 to 24 inches.....	230.1	406.4	5.3
13 to 24 inches.....	3,968.6	2,681.9	70.2	Over 24 inches.....	197.9		
Over 24 inches.....	597.0					Clay and other:	
Metal:				1 to 12 inches.....	456.3	235.4	93.8
1 to 12 inches.....	7,083.1	4,019.7	76.2	13 to 24 inches.....	120.5	60.4	185.4
13 to 24 inches.....	712.5	835.5	13.0	Over 24 inches.....	51.9		
Over 24 inches.....	231.9						

¹ Includes siphons and farm pipe lines reported.² Pipe sizes were separated at 30 inches in diameter (instead of 24 inches).³ Includes 917.8 miles of pipe lines not segregated by size and 93.5 miles of pipe lines not segregated by materials.