CHART I- ARKANSAS, LOUISIANA, AND FLORIDA

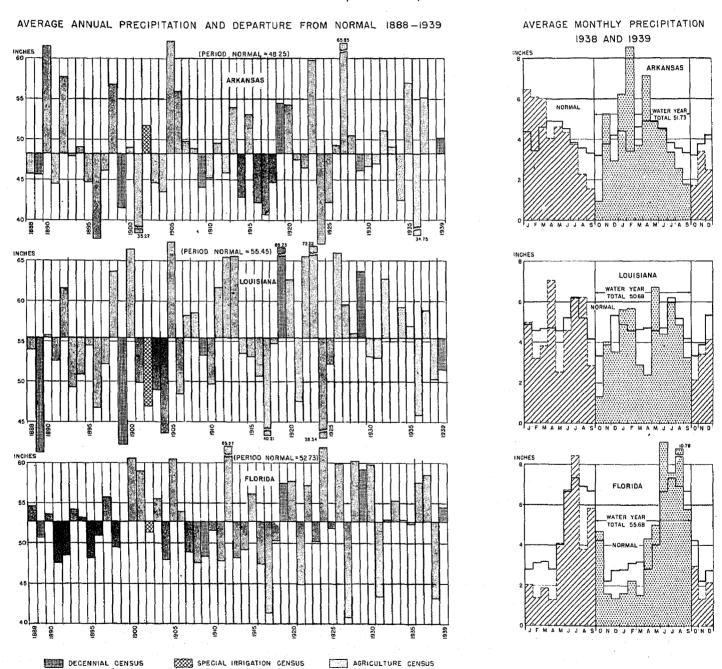


CHART II - MONTANA, NORTH DAKOTA, AND SOUTH DAKOTA

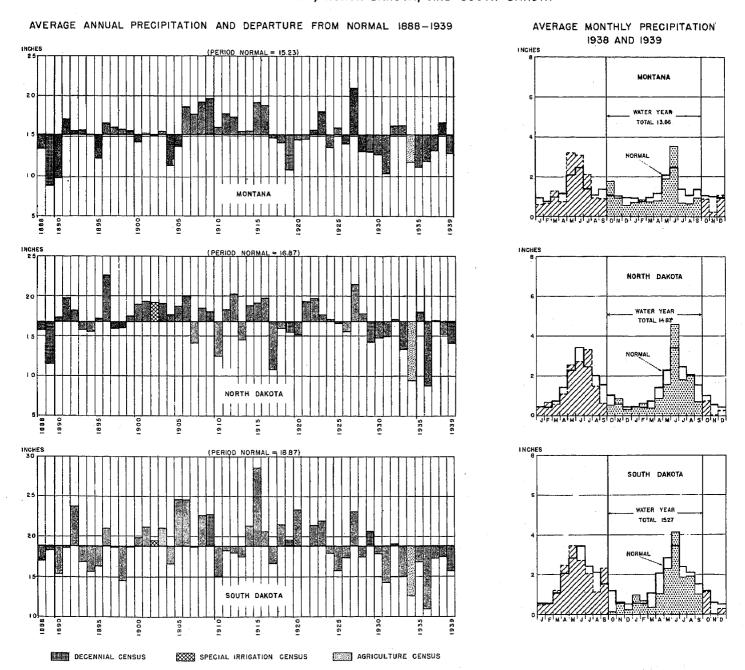
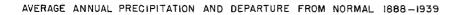
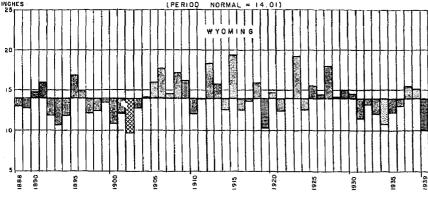
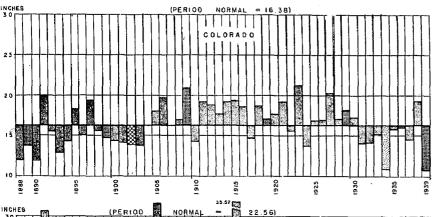
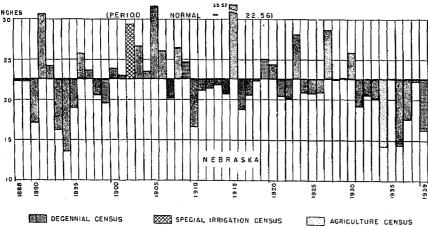


CHART III - WYOMING, COLORADO, AND NEBRASKA

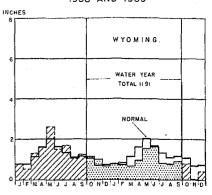


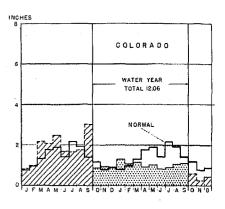






AVERAGE MONTHLY PRECIPITATION 1938 AND 1939





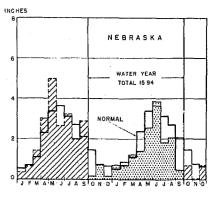
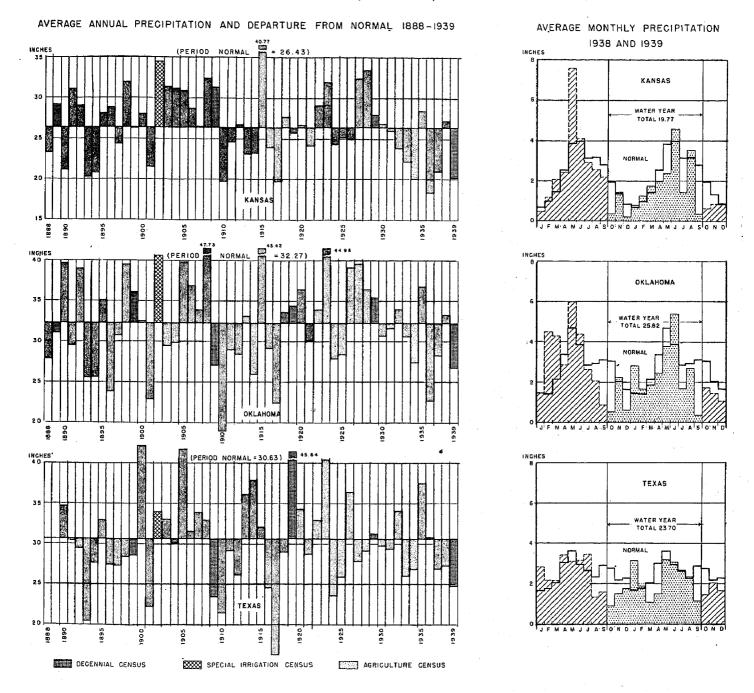


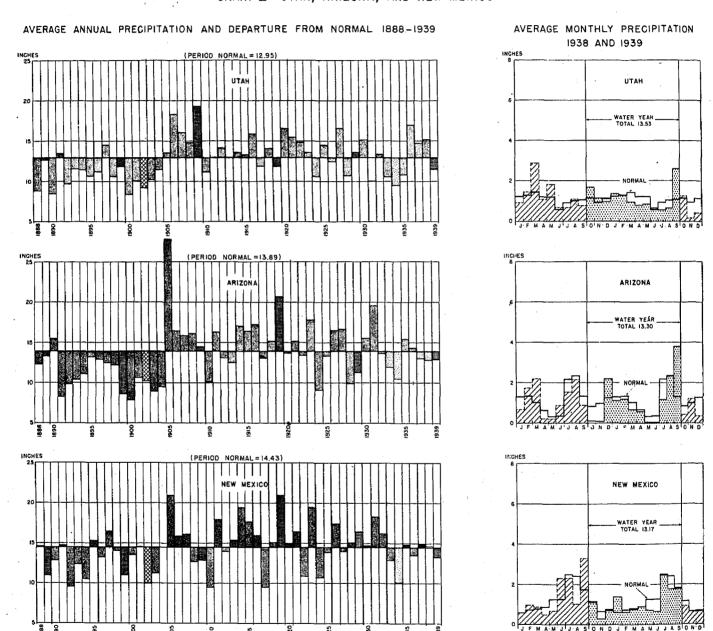
CHART IV - KANSAS, OKLAHOMA, AND TEXAS



DECENNIAL CENSUS

SPECIAL IRRIGATION CENSUS

CHART V- UTAH, ARIZONA, AND NEW MEXICO



AGRICULTURE CENSUS

CHART VI - WASHINGTON

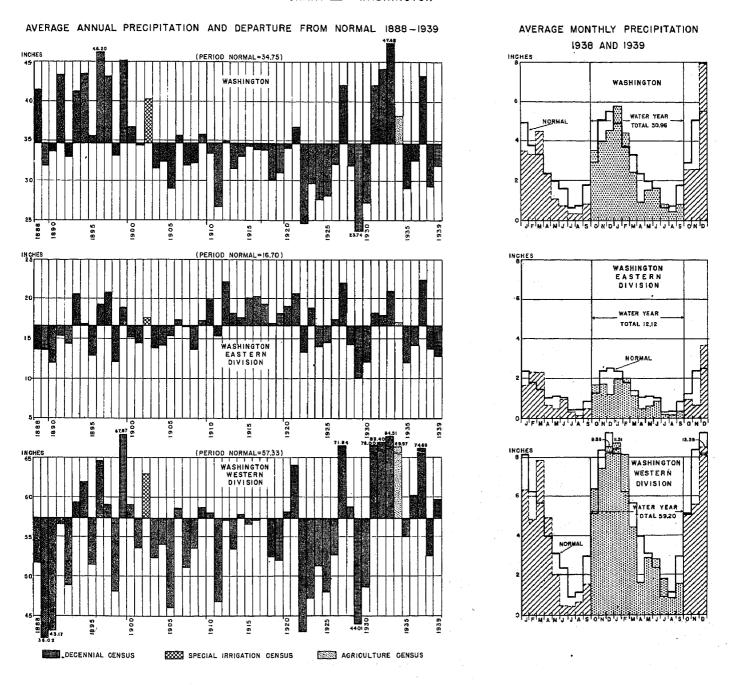
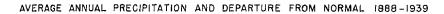
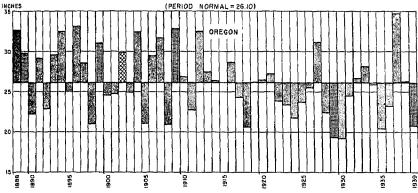
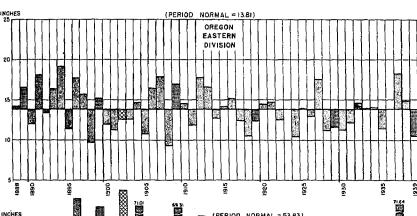
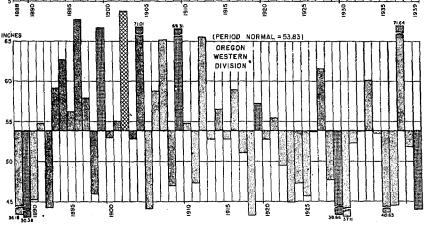


CHART XII - OREGON





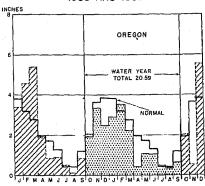


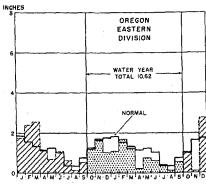


DECENNIAL CENSUS SPECIAL IRRIGATION CENSUS

AGRICULTURE CENSUS

AVERAGE MONTHLY PRECIPITATION 1938 AND 1939





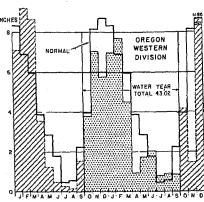


CHART VIII - IDAHO, NEVADA, AND GALIFORNIA

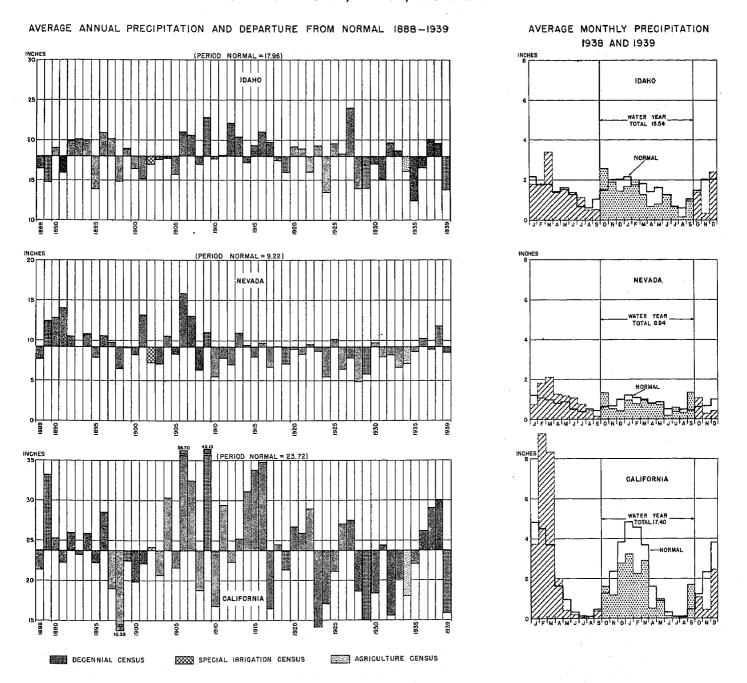


CHART IX.— FARMS IRRIGATED, AREAS, INVESTMENT AND AVERAGE ANNUAL COST OF MAINTENANCE AND OPERATION OF IRRIGATION ENTERPRISES, CENSUSES OF 1890 TO 1940: BY STATES ARRANGED IN ORDER OF AREA IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER IN 1940

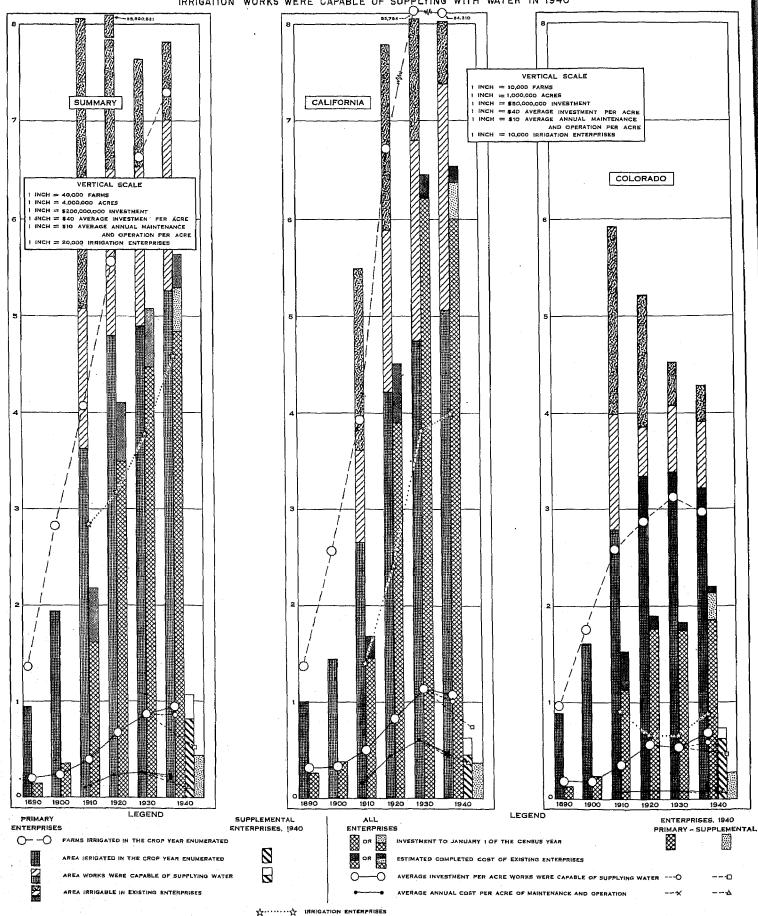


CHART IX. — FARMS IRRIGATED, AREAS, INVESTMENT, AND AVERAGE ANNUAL COST OF MAINTENANCE AND OPERATION
OF IRRIGATION ENTERPRISES, CENSUSES OF 1890 TO 1940: BY STATES ARRANGED IN ORDER OF AREA
IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER IN 1940 — Continued

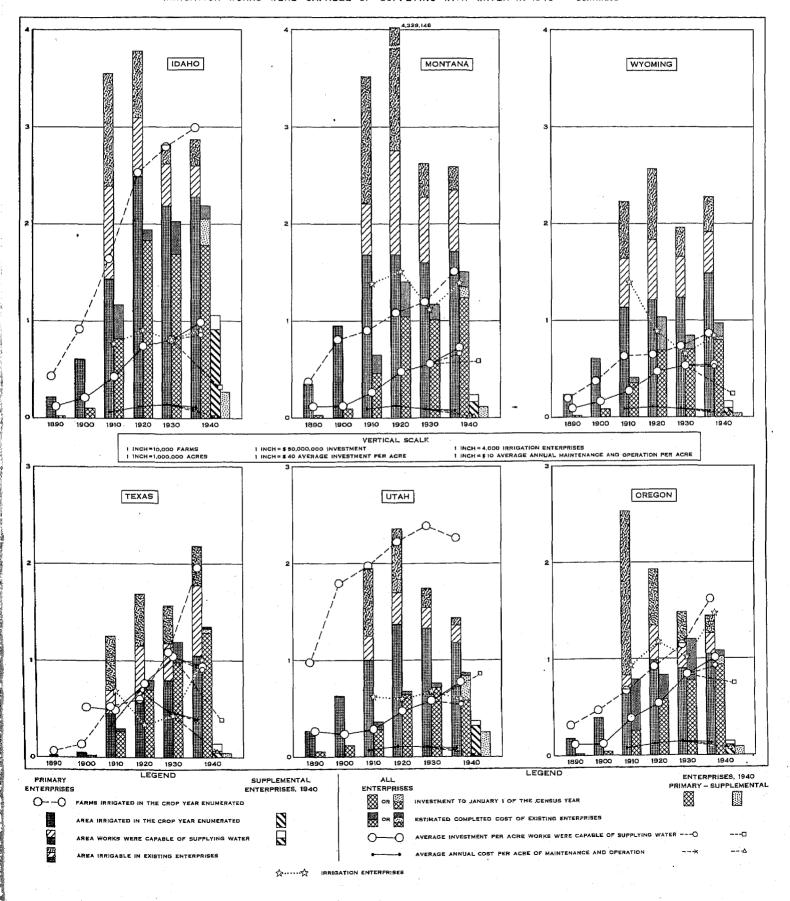


CHART IX.— FARMS IRRIGATED, AREAS, INVESTMENT, AND AVERAGE ANNUAL COST OF MAINTENANCE AND OPERATION OF IRRIGATION ENTERPRISES, CENSUSES OF 1890 TO 1940; BY STATES ARRANGED IN ORDER OF AREA IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER IN 1940 — Continued

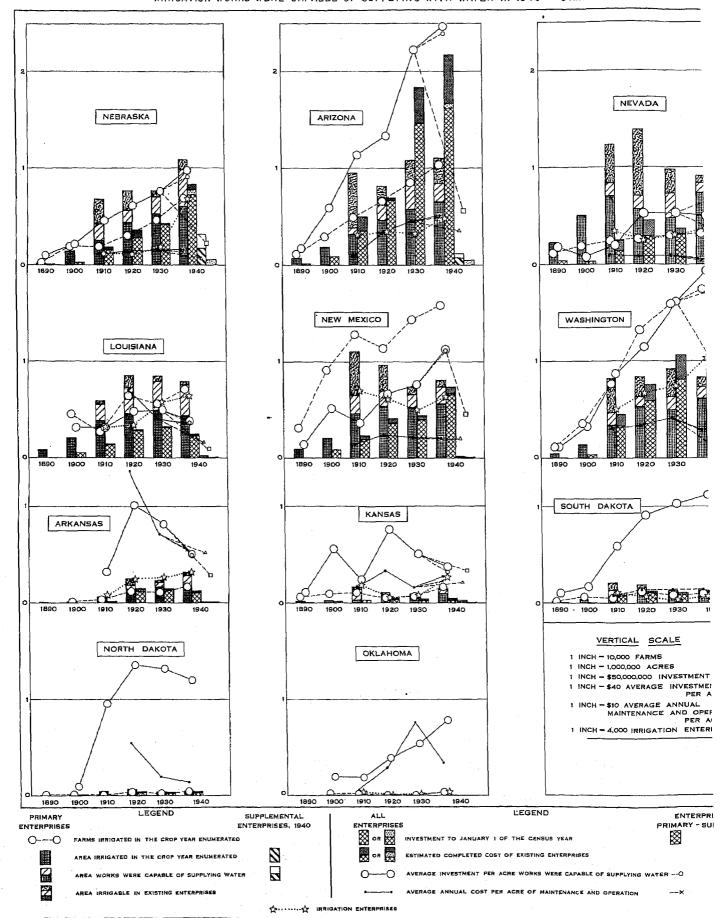


CHART X. -- AREAS, INVESTMENT, AND AVERAGE INVESTMENT PER ACRE OF IRRIGATION ENTERPRISES, CENSUSES OF 1902 TO 1940: BY SPECIFIED DRAINAGE BASINS

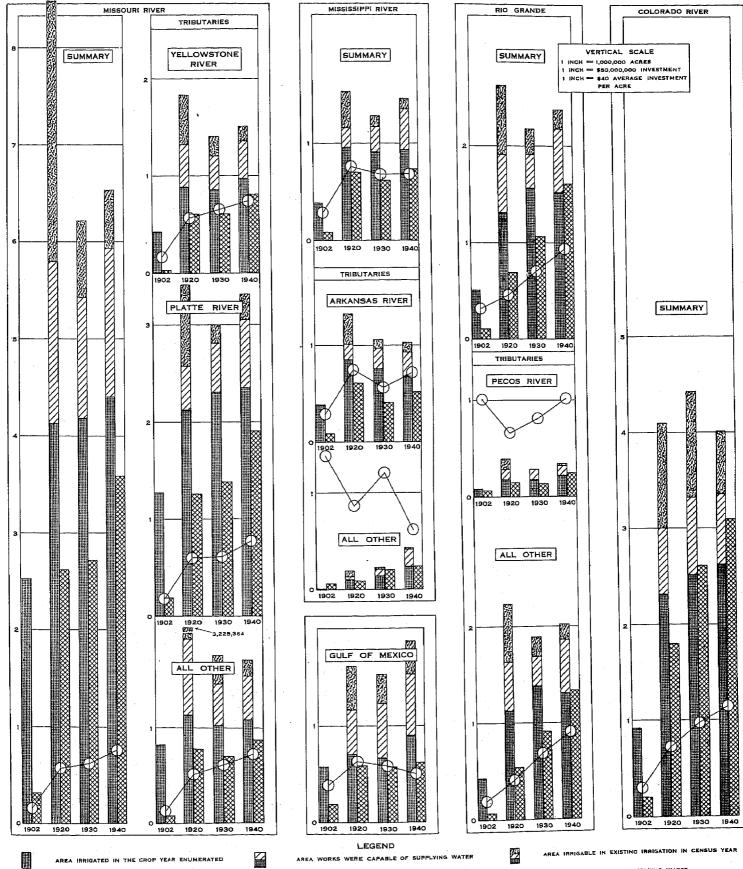


CHART X. — AREAS, INVESTMENT, AND AVERAGE INVESTMENT PER ACRE OF IRRIGATION ENTERPRISES,

GENSUSES OF 1902 TO 1940; BY SPECIFIED DRAINAGE BASINS—Continued

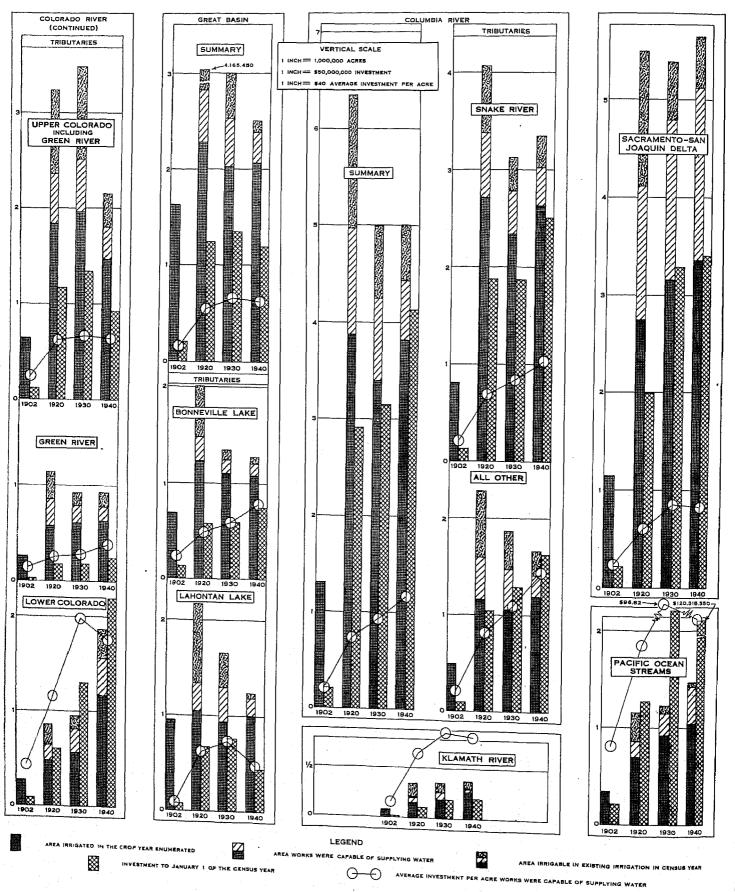
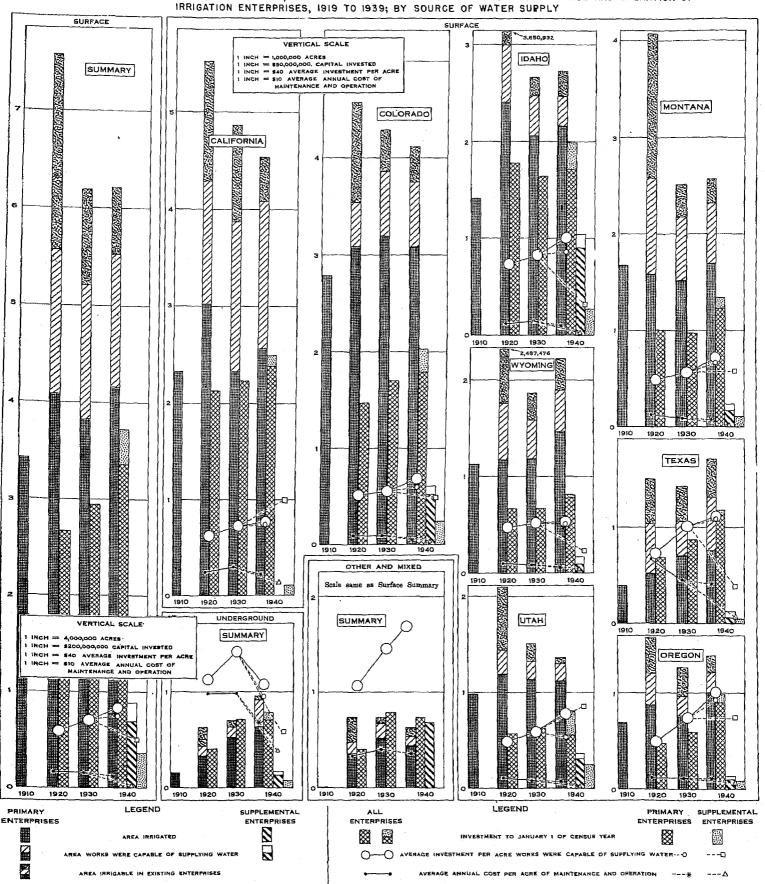
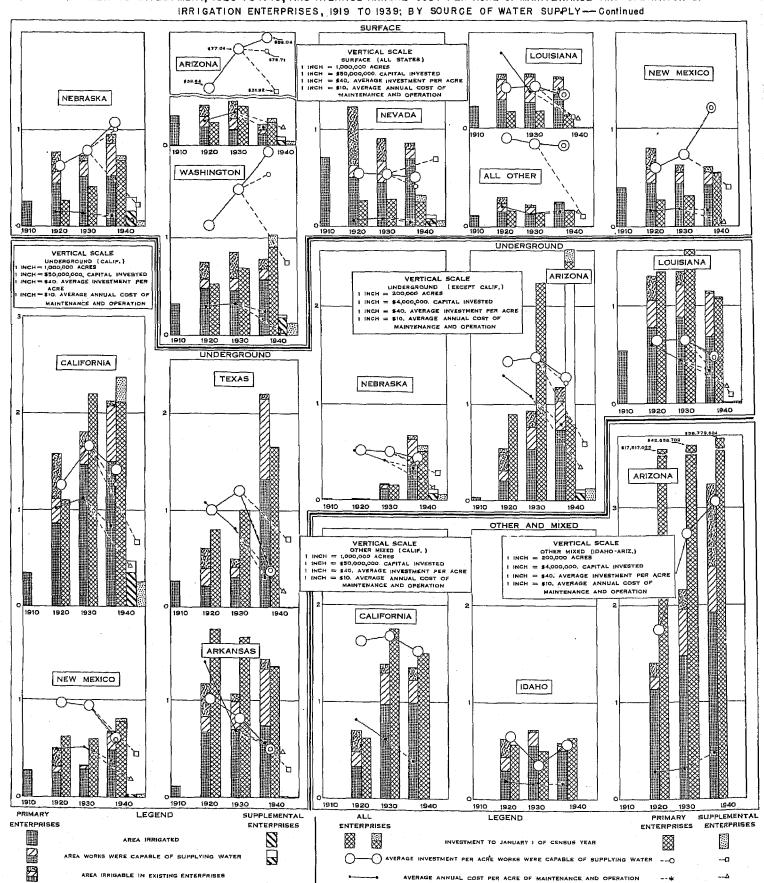


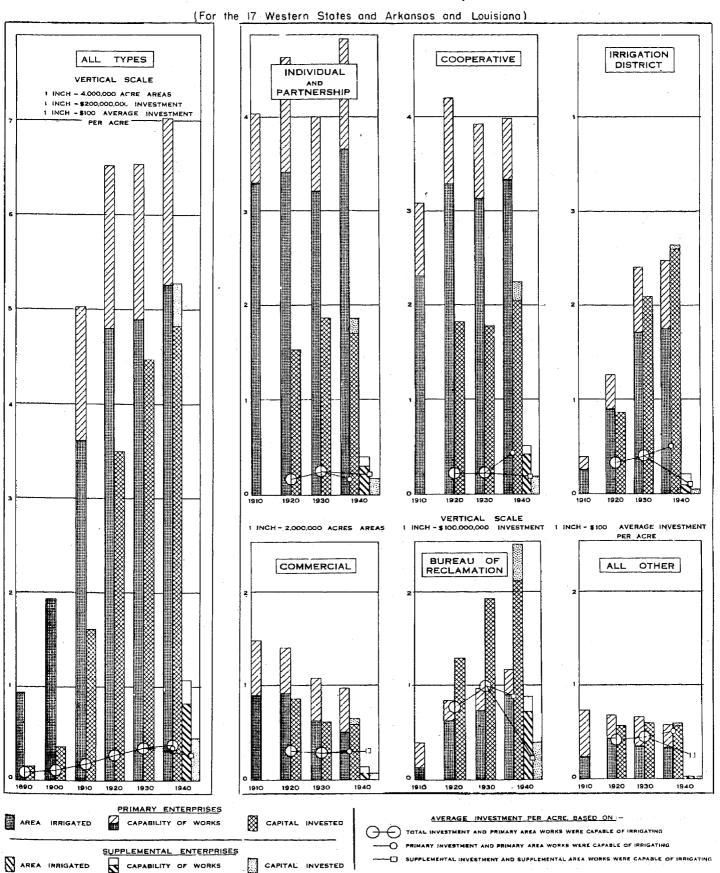
CHART XI. -- AREA IRRIGATED, 1909 TO 1939; AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE, CAPITAL INVESTED,
AND AVERAGE INVESTMENT, 1920 TO 1940; AND AVERAGE ANNUAL COST PER ACRE OF MAINTENANCE AND OPERATION OF



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CHARTXI - AREAS, CAPITAL INVESTED, AND AVERAGE INVESTMENT PER ACRE, 1890-1940;
AND BY TYPE OF IRRIGATION ENTERPRISE, 1910-1940



WIERAU OF

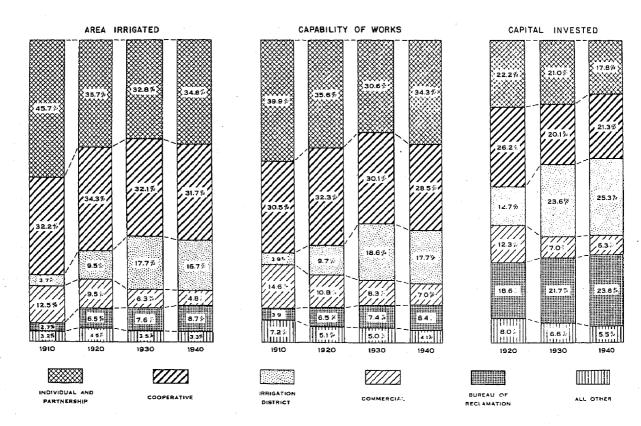


CHART XIII. — NUMBER AND YIELD OF PUMPED AND FLOWING WELLS, AVERAGE YIELD OF PUMPED WELLS, 1910 TO 1940;

AND AVERAGE LIFT OF PUMPED WELLS, 1940: BY STATES

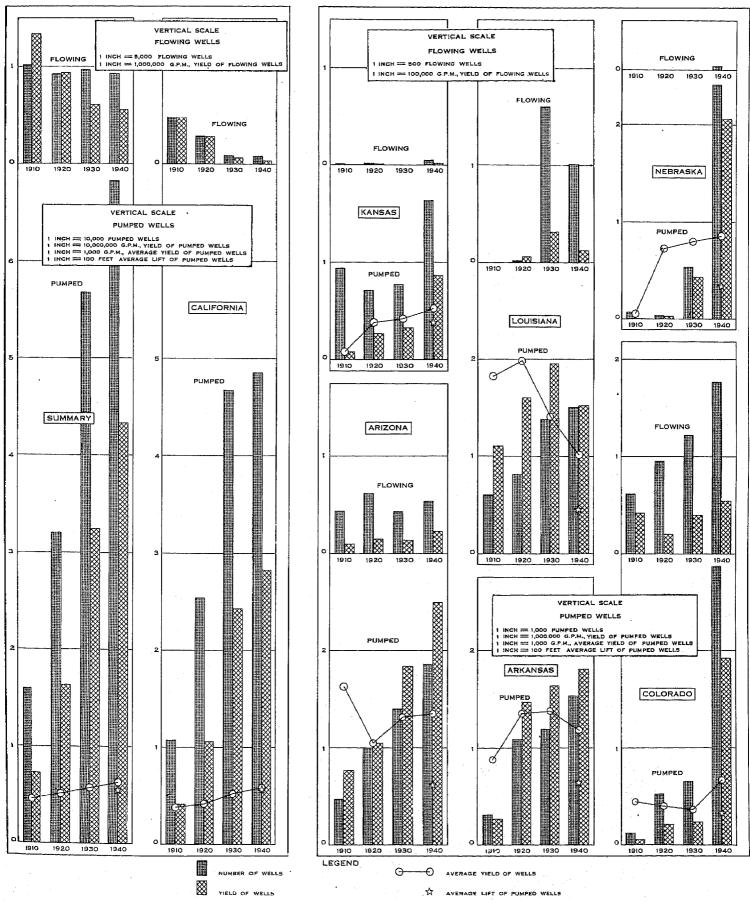
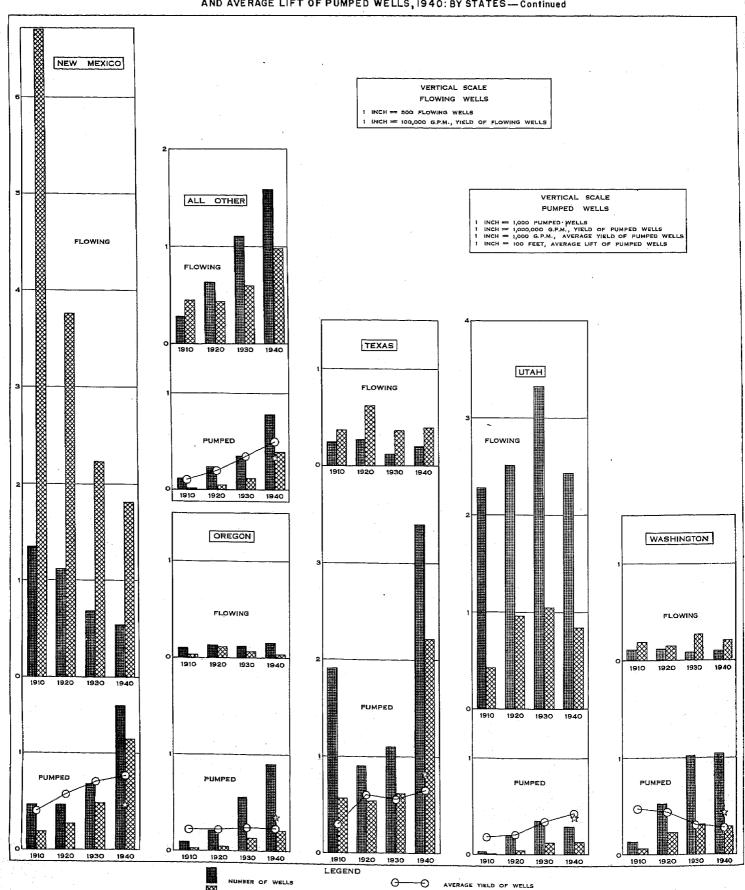


CHART XIII. - NUMBER AND YIELD OF PUMPED AND FLOWING WELLS, AVERAGE YIELD OF PUMPED WELLS, 1910 TO 1940;

AND AVERAGE LIFT OF PUMPED WELLS, 1940: BY STATES -- Continued



AVERAGE LIFT OF PUMPED WELLS

CHART XIV- NUMBER AND TOTAL CAPACITY OF PUMPS, 1910 TO 1940; AVERAGE CAPACITY OF PUMPS AND AVERAGE CAPACITY OF PRIME MOVERS, 1910 TO 1940; AVERAGE LIFT OF PUMPS, 1920 TO 1940: BY STATES

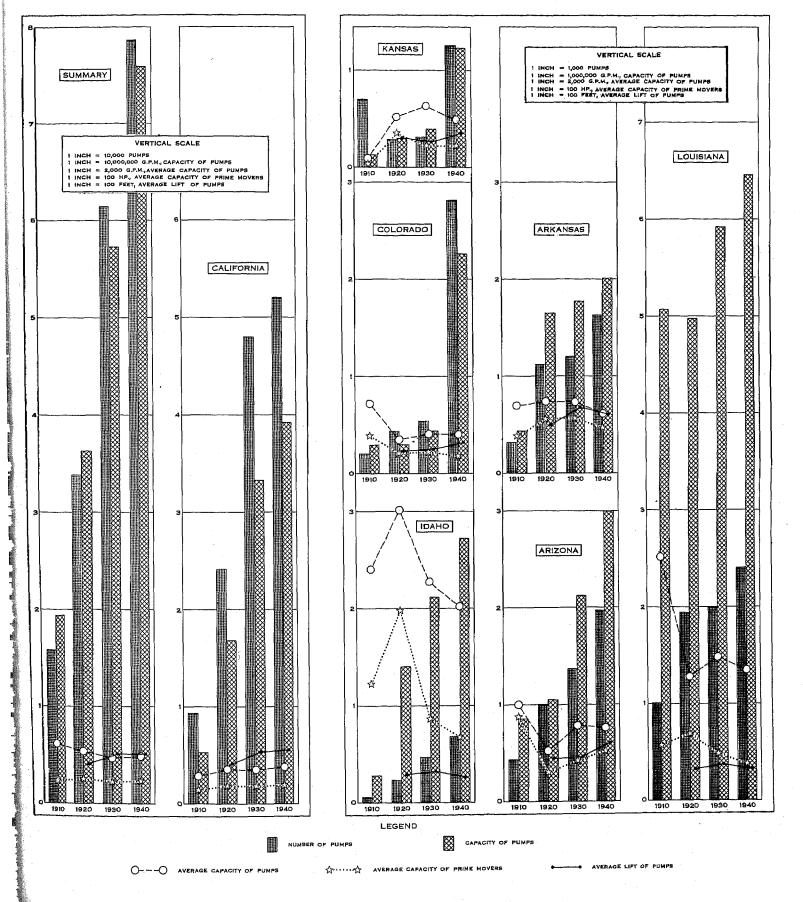


CHART XIV. - NUMBER AND TOTAL CAPACITY OF PUMPS, 1910 TO 1940; AVERAGE CAPACITY OF PUMPS AND AVERAGE CAPACITY OF PRIME MOVERS, 1910 TO 1940; AVERAGE LIFT OF PUMPS, 1920 TO 1940: BY STATES

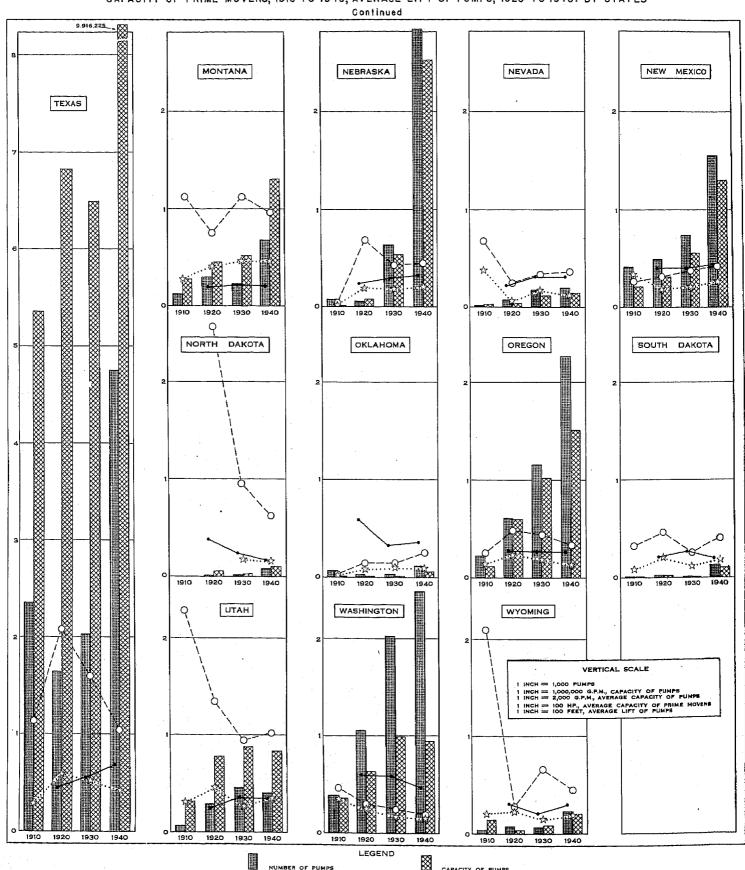


TABLE 1.—PRECIPITATION AND DEPARTURES FROM NORMAL: 1889, 1899, 1902, 1909, 1919, 1929, 1934, AND 1939 (For the 17 western States, Arkansas, Louisiana, and Florida. See charts I to VIII)

									PRECIPIT	ATION								
STATE		18	89	18	99	1	.902	19	09	1	.919	19	29	19	54		1939	
- 	Normal for period	Amount	Depart.1	Amount	Depart.1	Amount	Depart.1	Amount	Depart.1	Amount	Depart.1	Amount	Depart,1	Amount	Depart.1	Amount	Depart. 1	Percent of normal
Arizona	Inches 13.89 48.25 23.72 16.38 17.96	Inches 13.29 45.61 33.25 13.73 14.76	Inches -0.60 -2.64 +9.53 -2.65 -3.20	Inches 8.61 41.49 22.47 14.67 18.96	Inches -5.28 -6.76 -1.25 -1.71 +1.00	Inches 10.23 51.70 24.22 13.88 16.96	Inches -3.66 +3.45 +0.50 -2.50 -1.00	Inches 14.48 44.05 42.13 20.96 22.85	Inches +0.59 -4.20 +18.41 +4.58 +4.87	Inches 20.70 54.52 21.29 17.14 15.97	Inches +6.81 +6.27 -2.45 +0.76 -1.99	Inches 11.29 46.10 15.00 18,16 13.94	Inches -2.60 -2.15 -8.72 +1.78 -4.02	Inches 10.47 42.47 18.01 10.89 16.10	Inches -3.42 -5.78 -5.71 -5.49 -1.86	Inches 12.88 50.16 15.80 10.68 13.73	Inches -1.01 +1.91 -7.92 -5.70 -4.25	95 104 67 65 76
Kansas Louisiana Montana Nebraska New Mexico	26.43 55.45 15.23 22.56 9.22 14.43	29.44 41.21 8.94 22.29 12.41 10.97	+3.01 -14.24 -6.29 -0.27 +3.19 -3.46	26.26 42.19 15.74 19.55 9.12 10.98	-0.17 -15.26 +0.51 -3.01 -0.10 -3.45	34.42 46.89 15.12 29.47 7.25 9.97	+7.99 -8.56 -0.11 +6.91 -1.97 -4.46	31.15 53.25 19.72 24:64 11.03 12.83	+4.72 -2.20 +4.49 +2.08 +1.81 -1.60	25.65 69.23 10.88 25.09 7.08 20.95	-0.78 +13.78 -4.35 +2.53 -2.14 +6.52	27.96 63.65 13.08 22.74 5.83 16.48	+1.53 +8.20 -2.15 +0.18 -3.39 +2.05	20.02 59.25 11.87 14.31 7.12 10.08	-6.41 +3.78 -3.36 -8.25 -2.10 -4.35	20.08 51.51 12.85 16.28 6.48 13.22	-6.35 -3.94 -2.40 -6.28 -0.74 -1.21	76 95 84 72 92 92
North Dakota Oklahoma		11.54 31.01 29.79 16.60 30.38	-5.33 -1.26 +3.69 +2.79 -23.45	17.62 36.07 31.06 15.23 66.70	+0.75 +5.80 +4.96 +1.42 +12.87	19.35 40.54 29.88 12.60 68.76	+2.48 +8.27 +3.78 -1.21 +14.93	18.10 27.01 32.85 17.00 69.31	+1.23 -5.26 +6.75 +3.19 +15.48	15.59 54.41 26.21 12.41 57.28	-1.28 +2.14 +0.11 -1.40 +3.45	14.31 35.39 19.33 11.58 38.66	-2.56 +3.12 -6.77 -2.23 -15.17	9.51 27.46 25.87 14.07 53.53	-7.56 -4.81 -0.25 +0.26 -0.30	14.15 26.71 20.77 10.50 43.90	-2.72 -5.56 -5.35 -3.31 -9.93	84 83 80 76 82
South Dakota———————————————————————————————————	30.63 12.95 34.75 16.70	18.34 38.06 12.67 31.83 13.62 36.02 12.93	-0.53 +7.43 -0.28 -2.92 -3.08 -21.31 -1.08	18.84 28.70 11.83 45.07 18.97 67.87 13.58	-0.05 -1.95 -1.12 +10.32 +2.27 +10.54 -0.43	19.54 33.92 9.17 40.24 17.69 62.98 9.81	+0.67 +3.29 -3.78 +5.49 +0.99 +5.65 -4.20	22.74 23.45 19.31 35.87 17.40 58.75 16.33	+3.87 -7.18 +6.36 +1.12 +0.70 +1.42 +2.32	19.64 45.64 11.83 31.00 18.22 52.08 10.46	+0.77 +15.01 -1.12 -3.75 +1.52 -5.25 -3.55	20.63 31.17 13.60 25.74 10.19 44.01 15.06	+1.76 +0.54 +0.65 -11.01 -6.51 -13.32 +1.05	12.58 26.78 9.52 58.27 17.15 69.97 10.88	-6.29 -3.85 -3.43 +3.52 +0.43 +12.64 -5.13	15.71 24.69 11.49 52.00 12.83 59.74 10.27	-3.16 -5.94 -1.46 -2.75 -3.87 +2.41 -3.74	88 81 89 92 77 104
Florida	52.73	50.69	~2.04	52.65	-0.08	51.33	-1.40	48.57	~4.36	57,50	+4.77	59.19	+6.46	52,94	+0.21	54.54	+1.81	100

¹ Departure from normal.

TABLE 2. --MONTHLY AND ANNUAL PRECIPITATION WITH ANNUAL DEPARTURE FOR CALENDAR YEARS, 1938 AND 1939; AND MONTHLY AND TOTAL PRECIPITATION WITH DEPARTURE FOR PERIOD FOR WATER YEAR, OCTOBER 1938 THROUGH SEPTEMBER 1939 (For the 17 western States, Arkansas, Louisiana, and Florida. See charts I to VIII)

PRECIPITATION -Water Year -1938 1939 Annual. STATE Water Year Anmial July-Sept. Apr. June Da-Sept De-Oct. Nov. Dec. De-Jan. Feb. Mar. Apr. May June July Aug. cipi-tacipi-Dec. cipipar-ture² ture ture1 tion tion tion Inches 0,04 4.50 0.12 0.82 Inches 1.29 12.99 Inches 1.16 3.34 Inches 13.30 51.73 17.40 12.06 15.54 Inches Inche Inches Inches Inches Inches 1.95 7.56 3.98 1.31 4.14 12.80 48.25 30.06 19.35 19.56 -0.59 +3.48 -6.32 -4.32 -2.42 12.88 50.16 4.56 7.55 0.60 6.45 2.19 0,10 0,94 1,61 0,87 0.07 5.26 1.17 0.93 2.20 2.93 2.78 0.89 ~1.09 0.00 +6.34 +2.97 1.12 6.21 3.23 1.20 8.56 2.25 0.04 4.85 0.97 2,36 3.79 1.77 1.70 1.10 -1.01 Arizona-0.66 7.13 4.58 3.71 Arkansas +1.91 2.59 0.90 0.07 1.08 0.16 California-15.80 Colorado--10.68 1.03 3.98 7.02 1.50 2.01 1.14 0.91 0.97 -4.23 Idaho-4.40 2.58 1.91 1.46 +1.60 0.68 1.29 0.69 0.32 3.23 0.94 0.44 1.34 -6.66 -4.77 -1.57 -6.62 -0.28 1.40 4.05 0.89 0.72 0.52 27.27 50.26 16.60 22.23 11.79 14.62 19.77 50.68 13.86 15.94 2.24 9.71 2.17 20,08 51.51 12,83 14.05 14.16 1,22 -6.35 7.62 0.53 0.20 +0,84 2.89 0.72 1.21 0.95 2.40 0.78 1.40 -3.94 -2.40 1.32 1.75 0.18 3.53 0.56 0.18 5.62 0.70 0.70 6.72 1.89 2.53 0.73 4.42 5.52 5.84 0.19 4.86 0.62 2.04 0.34 5.97 Louisiana-11.99 15.23 -5.19 0.81 0.87 0.78 0.68 1.83 0.60 2.45 Montana-2.54 6.98 3,88 8.09 +1.57 1.42 1.80 2,18 -6.28 16.28 8.94 15.17 3.52 3.48 +2.57 0.79 8.48 4.67 1.34 1.32 0.42 0.98 New Mexico-2.38 6.63 1.10 0.27 0.76 +0.19 0.61 0.76 0.88 0.72 0.64 1.76 1.83 -1.26 13.22 -1.21 14.85 25.82 20.59 10.62 43.02 15.27 -2.04 -6.45 -5.51 -3.19 North Dakota-1.81 2,10 0.68 1.06 -2.72 1,75 5.47 0.32 15.33 -1.54 0.63 0.39 0,87 1,55 4,59 6.37 0.55 0.87 0.47 0.62 2.48 1,02 5.76 0.26 13.20 5.60 2.87 6.51 1.49 1.30 0.52 2.06 1.29 2.21 3.35 1.71 33.21 26.31 14.89 +0.94 +0.21 +1.08 2.79 2.90 1.09 1.67 3.53 1.68 7.70 1.82 2.23 1.22 2.44 0.44 0.22 3,76 1,07 0,76 5.35 1.05 0.61 2.05 2.66 0.35 0.12 0.55 0.64 0.55 4.24 8.07 3.90 17.48 -5.56 -5.33 -5.31 Oklahoma----10.15 26.71 0.49 0.35 0.79 1.85 13.33 10.50 6.70 -10.81 -3.60 -9.93 -3.16 Western Div.-South Dakota---5.25 8.67 7.04 51.83 17.50 1.75 0.86 28.05 1.93 3.80 -2.00 6.97 4.51 0.93 0.88 43.90 0.16 2.35 5.49 0.69 0.35 1.03 4.15 1.92 1.43 15.71 1.12 2.61 0.84 0.34 1.59 23.70 13.53 30.96 12.12 59.20 -6.93 +0.58 -3.79 -4.58 +1.87 27.18 15.19 29.27 13.79 52.70 15.26 2,21 0.66 0.43 0.13 24.69 11.49 5.08 7.12 6.32 3.16 3.05 2,60 -3.45 3.10 1.04 1.47 Texas-9.65 0.87 1.50 1.72 1.86 -1.46 -2.75 -3.87 5.24 11.40 6.30 3.60 4.23 2.07 2.52 1.54 0.91 1.70 3.55 1.64 1.16 4.01 1.70 0.97 4.54 1.17 +2.24 -5.48 -2.91 1.37 5.79 1.97 1.29 4.44 1.99 0.94 2.45 1.12 0.78 0.91 0.43 0.86 1.52 0.60 0.65 1.64 0.85 0.54 0.84 0.18 Utah----1.79 13.14 5.22 23.99 Washington---52.00 Eastern Div.-Western Div . -19.05 7.52 2.68 6.40 1.17 7.46 9.59 -4.63 +1,25 11.51 8.12 4,45 0.68 2.90 2.85 1.84 0.87 59.74 10,27 +2.41

1.57

5.01

9.13

7.59 10.78

4.32

0.92 11.91

5.79 55.68 -2.10

+2.95

1.22

6.51

54.54

-3.74

+1.81

Florida-

2,61

5.28 12.14 4.04

18,10

4.70

1.60

1.35 43,17 -9,56

1,62

2.25

1.54

¹ Departure from normal.

THE OF THE OF

TABLE 3.—IRRIGATION ENTERPRISES, AREA EXISTING IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE IN ENTERPRISES, AND ESTIMATED COMPLETED COST OF EXISTING ENTERPRISES, 1910 TO 1940; FARMS IRRIGATED, AREA IRRIGATED, AND CAPITAL INVESTED, 1890 TO 1940; BY STATES

(For the 17 western States and Arkansas and Louisiana. See chart IX)

	T			CEN	ISUS OF-			
			T		I	<u> </u>	1940	
ITEM .	1890	1900	1910	1920	1930	Total	Primary	Supplement
		<u></u>	<u> </u>			10 001	enterprises	enterpris
			r	SUMMARY	(19 STATES)	·		
rrigation enterprisesmumber arms irrigated			56,858	63,298	75,517	91,637	80,502	11,1
arms irrigatednumber	54,156 3,715,945	113,849 7,744,492	162,723	222,789 19,191,716	265,147 19,547,544	291,655 21,003,739	291,655 21,003,739	Z 407 /
res existing irrigation works were capable of	3,713,543	7,744,402	14,400,200		1		21,000,759	3,267,
rea existing irrigation works were capable of acres— supplying with water————————————————————————————————————			20,285,403	26,020,477	26,101,890	28,055,248	28,055,248	4,268,
apital invested in enterprisesdollars-	29.583.921	70,010,594	2 32,245,464 321,454,008	235,890,821 697,657,328	30,599,470 892,755,790	31,305,949 1,052,049,201	963,888,265	88,160,
Average investment per acre based on area existing	.,,		' '					
Average investment per acre based on area existing works were capable of supplying with water———dollars—stimated completed cost of existing enterprises———dollars—	37.95	39.04	15.85 434,948,825	26.81	34.20	37.50	54.36	20
verage annual cost per acre irrigated for			404,040,060	225,770,003	1,010,100,210	1,120,545,007		
maintenance and operation of irrigation worksdollars-	1		1.07	2.43	2.77	2.28	2.14	(
				BY STA	muc			
alifornia:	<u></u>			B1 51/	TES		,	
Irrigation enterprises			13,970	24,115	38,117	39,975	31,733	8
Farms irrigated 1area	13,752	25,675	39,352	67,391	85,784	84,310	84,510	
Area existing irrigation works were capable of	1,004,233	1,446,114	2,864,104	4,219,040	4,746,632	5,069,568	5,069,568	455
Area existing irrigation works were capable of supplying with water————————————————————————————————————			5,619,378	5,894,466	6,815,250	7,598,576	7,398,576	624
Area irrigable in enterprises———————————————————————————————————	18 004 01-	10 101 61	2 5,490,360	27,805,207	8,075,895	8,039,175		
Average investment per acre based on area existing	1	19,181,610	72,580,030	194,886,588	310,967,979	318,889,218	300,164,036	18,725
works were capable of supplying with waterdollars-	³12.95	3 15.26	20.05	33.06	45.63	43.10	40,57	2
Estimated completed cost of existing enterprisesdollars- Average annual cost per acre irrigated for			84,392,344	225,799,125	325,930,535	327,593,311		
maintenance and operation of irrigation worksdollars-			1.54	4.40	6,10	4.73	4.39	
plorado:								
Trigation enterprises			9,065	6,634	6,509	8,713	7,084	1
Area irrigatedacres	9,659 890,735	17,613 1,611,271	. 25,857 2,792,032	28,756 3,348,385	31,288 3,393,619	29,766 3,220,685	29,766 3,220,685	628
Area existing irrigation works were capable of	,.55		' '		' '		5,220,000	
supplying with wateracresacresacresacresacres			3,990,166 25,917,457	3,855,348	4,078,712	3,913,542	3,913,542	738
Capital invested in invigation enterprisesdollars.	6,368,755	11,758,703	56,656,445	25,220,588 88,302,442	4,528,251 87,603,240	4,283,250 106,849,343	92,871,122	13,978
Average investment per acre based on area existing works were capable of supplying with water————dollars—	30.00			1				1
Estimated completed cost of existing enterprisesdollars-	37.15	37.30	14.19 76,443,239	22.90 95,198,423	21.48 91,845,804	27.50 109,808,466	23.75	1
Average annual cost per acre irrigated for			70,440,200	30,180,463	91,045,804	109,808,456		
maintenance and operation of irrigation worksdollars-			0.75	0.87	0.85	0.81	0.65	'
daho:								
Irrigation enterprisesmumber	4,323	9,188	3,092 16,439	3,629 25,283	3,222 27,958	3,625 29,898	3,437 29,898	
Area 1rrigated	217 005	608,718	1,430,848	2,488,806	2,181,250	2,277,857	2,277,857	910
Area existing irrigation works were capable of supplying with water————————————————————————————————————			2,388,959	3,092,810	2,617,021	2,593,534	2,593,534	1,055
Area irrigable in enterprisesacres			3,549,573	23,780,048	2,814,048	2,870,023	2,595,554	
Capital invested in irrigation enterprisesdollars- average investment per acre based on area existing	1,029,000	5,120,399	40,977,688	91,501,009	84,500,354	102,585,798	89,034,966	13,550
works were capable of supplying with waterdollars-	3 4.74	38.41	17.15	29.59	32.29	39.55	34.33	1
Estimated completed cost of existing enterprisesdollars- Average annual cost per acre irrigated for			58,451,106	97,019,717	101,350,250	109,513,311		
maintenance and operation of irrigation worksdollars-			0.63	1.17	1.44	1.11	1.02	
ontana:	}			1	4.33	1.11		
Farms irrigatednumber			5,534	6,035	4,461.	5,555	5,501	
Area irrigated	3,708 350,582	8,043	8,970	10,807	11,925	15,087	15,087	
Area existing irrigation works were capable of supplying with water————————————————————————————————————	000,002	951,154	1,679,084	1,681,729	1,594,912	1,711,409	1,711,409	166
supplying with wateracres			2,205,155		2,276,000	2,344,390	2,344,390	254
Capital invested in irrigation enterprisesdollars-	1,623,195	4,683,073	23,515,602		2,622,423	2,588,214	61, 650, 670	5,469
Average investment per acre based on area existing				52,143,863	50,319,204	67,352,505	61,882,978] 3,400
works were capable of supplying with waterdollars- Estimated completed cost of existing enterprisesdollars-	34.63	34.92	10.42	18.94	22.11	28.73	26.40	2
Average annual cost per acre irrigated for			32,582,077	70,079,028	58,489,575	75,174,645		
maintenance and operation of irrigation worksdollars-			0,89	1.26	0.87	0.73	0.72	
roming: Irrigation enterprisesnumber			İ					
Farms immigrated 1	1,917	3,721	5,577 6,297	3,564	2,651	3,385	8,319	
Area irrigatedacres	229,676	605,878	1,133,302	6,449	7,508 1,236,155	8,637 1,486,498	8,637 1,486,498	98
Area existing irrigation works were capable of supplying with wateracres	J		i					
irea irrigable in enterprisesacres			1,639,510 22,224,298	1,831,039 22,564,668	1,655,008	1,913,527 2,277,046	1,913,527	16
Capital invested in irrigation enterprisesdollars-	851,427	3,973,165	17,700,980		35,153,187	41,522,801	39,955,603	1,56
Average investment per acre based on area existing works were capable of supplying with waterdollars-	33.62	36.56	10.80	18.75	21.24	21.70	20,88	•
Estimated completed cost of existing enterprisesdollars-			20,425,890		41,970,416	48,539,663		
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-			0,86	1 1		' '		4
xas:			0.88	1.04	0.84	0.59	0.57	
Irrigation enterprisesnumber			2,772	1,371	1,728	4,040	4,021	
Farms irrigatedacres			5,238	5,974	10,861	19,568	19,568	
Area existing irrigation works were canable of	18,419	49,652	451,130	586,120	798,917	1,045,224	1,045,224	6-
supplying with wateracresarea irrigable in enterprisesacres			690,991	1,150,542	1,177,415	1,773,812	1,773,812	13
Capital invested in irrigation enterprises		1 000 000	21,253,173	21,687,447	1,566,876	2,180,796		
Average investment per acre based on area existing	1	1,027,508	13,487,347	35,072,739	49,022,164	66,441,376	64,300,488	2,14
works were capable of supplying with water dollars- Estimated completed cost of existing enterprises dollars-		320.70		30,48	41.64	37.46	36.25	. :
Average annual cost per acre irrigated for		l .	14,754,172	39,860,871	59,555,624	67,319,032		
maintenance and operation of irrigation worksdollars-				1	I ·	1	1	1

Number of farms irrigated as reported in the Cansus of Agriculture, 1940. For 1910 and 1920, relates to total area in enterprises. Areas irrigable for those years were not reported.

TABLE 3.—IRRIGATION ENTERPRISES, AREA EXISTING IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE IN ENTERPRISES, AND ESTIMATED COMPLETED COST OF EXISTING ENTERPRISES, 1910 TO 1940; FARMS IRRIGATED, AREA IRRIGATED, AND CAPITAL INVESTED, 1890 TO 1940; BY STATES—Continued

(For the 17 western States and Arkansas and Louisiana. See chart IX)

(For the 17 wes	stern States	and Arkansas	and Louisian	a. See chart	IX)			
				CEN	SUS OF-			
ITEM							1940	
	1890	1900	1910	1920	1980	Total	Prinary	Supplemental
						10081	enterprises	enterprises
		Г		BY STAT	E5_Continued			
Utah: Irrigation enterprises			2,472	2,405	2,714	2,401	2,254	147
Farms irrigatedarray	9,724 263,475	17,924 629,295	19,709 999,410	22,218 1,571,651	23,847 1,324,125	22,612	22,612	
Area existing irrigation works were capable of supplying with wateracres			1,250,246			1,176,116	1,176,116	522,994
twee dynamicable in enternal security			21,947,625	1,700,550 22,559,244	1,542,475 1,759,889	1,857,714	1,857,714	870,284
Capital invested in irrigation enterprises———————————————————————————————————		5,865,502	14,028,717	52,057,551	55,669,819	41,896,552	29,219,904	12,676,628
works were capable of supplying with waterdollars- Estimated completed cost of existing enterprisesdollars-	310.55	39.52	11.22 17,840,775	18.84 53,835,641	23,13 87,857,011	30.86 43,580,966	21.52	54.25
Average animal cost per acre irrigated for maintenance and operation of irrigation worksdollars-			0.65	1.08	1.00	0.85	0.77	0.26
(Magon t			1124	2,00	2100	0,00	0177	0.20
Irrigation enterprises — number—Farms irrigated — number— area irrigated — acres — acres	7 150		5,745	4,710	4,066	5,884	5,788	96
Area irrigated acres	3,150 177,944	4,636 589,510	6,669 686,129	9,154 986,162	11,387 898,715	16,159 1,049,176	16,159 1,049,176	104,970
Area existing irrigation works were capable of supplying with wateracres			850,526	1,544,046	1,158,210	1,261,081	1,261,081	141,558
supplying with water acres	825,660	1,843,771	22,527,208 12,760,214	21,925,987 28,929,151	1,478,128 38,754,548	1,441,417 50,961,251	46,726,515	
Average investment per acre based on area existing	34.64	3 _{4.75}						4,254,958
works were capable of supplying with waterdollars- Estimated completed cost of existing enterprisesdollars-	-4.04	-4.75	15,36 39,216,619	21,52 41,585,742	53.46 60,039,959	40.41 55,884,450	37.05	29.92
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-			0.75	1.19	1.41	1.25	1.18	0.75
Nebraska:								
Irrigation enterprises	214	1,952	474 1,852	470 5,021	721 4,602	2,717 6,913	2,455 6,915	262
Area irrigated	11,744	148,558	255,950	442,690	552,617	610,879	610,579	171,655
Area existing irrigation works were capable of supplying with wateracresacresacres			429,225	562,468	703,641	992,957	992,957	316,750
Area irrigable in enterprises	47,798	1,310,698	² 680,155 7,798,310	² 766,768 15,909,185	763,059 21,586,519	1,095,567 59,056,207	56,191,786	2,864,421
Average investment per acre based on area existing works were capable of supplying with waterdollars-	34.07	3 8.82	18.17	24.75	30,39	39.35	36,45	9,04
Estimated completed cost of existing enterprisesdollars- Average annual cost per acre irrigated for			9,485,231	18,050,154	21,465,772	41,995,361		
haintenance and operation of irrigation worksdollars-			1.09	1.48	1.54	1.59	1.59	0.70
Arisonae								
Irrigation enterprises	1,075	2,981	1,269 4,841	1,388 6,605	1,270 8,525	1,911 10,539	1,768 10,359	145
Area irrigatedacres	65,821	185,396	520,051	467,565	575,590	655,265	653,263	75,806
Area existing irrigation works were capable of supplying with water—acres—area irrigable in anterprises—acre			387,655 2944,090	627,505 2813,153	824,152 1,085,627	844,212 1,104,645	844,212	115,551
Area irrigable in enterprises———————————————————————————————————	465,000	4,458,552	17,677,966	53,498,094	75,528,197	83,526,608	81,015,578	2,511,230
works were capable of supplying with waterdollars-	37.06	3 25.94	45.60	58.40	88,97	98.94	95.97	22.16
Estimated completed cost of existing enterprisesdollars- average annual cost per acre irrigated for			24,828,868	34,615,064	91,915,550	108,980,519		
maintenance and operation of irrigation worksdollars-			0,93	5.27	4.57	5.00	4.92	5.51
Mevada: Irrigation enterprisesnumber-			1,547	1,015	1,245	1,464	1,453	n n
Irrigation enterprises	1,167 224,403	1,906 504,168	2,406 701,855	2,718 561,447	3,051 486,648	5,264 759,865	5,264 759,865	84,722
irea existing irrigation works were capable of supplying with wateracresacres		001,200	840,982	704.708	756,249	841,504	841,304	125,845
Area irrigable in enterprisesacres			² 1,232,142	21,582,056	985,717	915,689		
Capital invested in irrigation enterprises————dollars— Average investment per acre based on area existing works were capable of supplying with water————dollars—	1,700,975	1,557,559	6,721,924	14,754,280	15,457,981	16,906,790	15,393,439	5,513,551
works were capable of supplying with waterdollars- Estimated completed cost of existing enterprisesdollars-	37.58	35.05	7.99 12,188,756	20.94 22,648,747	21.00 18,489,605	20.10 18,129,554	15.92	28.57
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-			0.97	0.79	0.91	0.48	0.45	0.46
Louisiana:						, .	, .	
Irrigation enterprisesnumber		4 593	1,287	1,875	2,352	2,566	2,550	16
Area irrigatedacres	84,877	4,581 201,685	2,690 380,200	6,471 454,882	5,588 450,901	7,057 447,095	7,057 447,095	2,579
Area existing irrigation works were capable of supplying with wateracres			553,220	728,742	795,185	759,915	759,915	4,542
supplying with water acres Area irrigable in enterprises—acres—Capital invested in irrigation enterprises—dollars—		2,529,519	² 581,965 6,859,166	² 851,211 14,065,181	850,401 15,744,748	795,674 11,565,513	11,548,812	16,701
Average investment per acre based on area existing works were capable of supplying with waterdollars-	1.	312.54	12.40	19.50	19.80	15.22	15.20	5.85
Estimated completed cost of existing enterprisesdollars-		12.04	6,914,166	14,264,178	15,771,005	11,659,725	10.40	
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-				7.01	4.09	3.65	5.64	1.51
New Mexico:		'						
Irrigation enterprisesnumber	3,085	9,128	2,786 12,795	2,591 11,590	1,965 14,547	2,505 15,811	2,451 15,811	52
Area existing irrigation works were capable of	91,745	205,695	461,718	558,577	527,055	554,059	554,059	5,125
supplying with water acres area irrigable in enterprises acres			644,970	696,119	656,669	751,990	781,990	5,912
Capital invested in irrigation enterprisesdollars-	511,987	4,165,312	*1,102,297 9,154,897	2961,879 18,210,412	741,245 19,854,380	807,656 52,755,997	32,629,293	108,704
Average investment per acre based on area existing works were capable of supplying with waterdollars-	3 5.58	3 20.45	14.19	26.16	50.20	44.72	44.58	18.05
Estimated completed cost of existing enterprisesdollars- Average annual cost per acre irrigated for			11,640,091	20,440,646	21,942,450	56,775,159	**********	
maintenance and operation of irrigation worksdollars-			1.56	2.41	2.15	2.11	2.09	2.00

¹ Number of farms irrigated as reported in the Census of Agriculture, 1940. ² For 1910 and 1920, relates to total area in enterprises. Areas irrigable for those years more not reported. ³ Not shown graphically.

TABLE 3.—IRRIGATION ENTERPRISES, AREA EXISTING IRRIGATION WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE IN ENTERPRISES, AND ESTIMATED COMPLETED COST OF EXISTING ENTERPRISES, 1910 TO 1940; FARMS IRRIGATED, AREA IRRIGATED, AND CAPITAL INVESTED, 1890 TO 1940; BY STATES—Continued

(For the 17 western States and Arkansas and Louisiana. See chart IX)

				CENS	SUS OF			
			T	·			1940	
ITEM	1890	1900	1910	1920	1950	Total	Primary enterprises	Supplemental enterprises
				BY STATE	S-Continued			
Mashington:								
Reshington Irrigation enterprises Parse irrigated Area irrigated Area irrigated Area irrigated	1.046		1,934 7,664	2,692 13,271	2,986 15,949	4,120 17,426	5,987 17,426	153
Farms irrigated	1,046 48,799	3,513 155,470	354,378	529,899	499,283	615,013	615,015	184,664
			·	637,151	651,511	781,527	751,527	219,009
aupplying with water acres Area irrigable in enterprises acres			470,514 2817,032	2856,795	915,379	837,096		
Capital invested in irrigation entarprises	196,660	1,722,369	16,219,149	29,299,011	40,561,895	56,415,196	49,881,624	6,533,572
Average investment per acre based on area existing	34.05	312.71	34.47	45.98	64.23	77.12	68.19	29,83
Ratimated completed cost of existing enterprisesdollars-			22,522,856	37,684,591	55,252,477	58,141,097		
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-			-5,08	3.45	4.14	2.80	2.78	0,51
irkansas:		1			3 0/5	3 200	1,295	
irrigation enterprisesnumber		20	510 252	944 1,166	1,043 1,096	1,298 1,529	1,529	
Area irrigated	9	25	27,755	143,946	151,787	161,601	161,601	341
irea existing irrigation works were capable of			47,136	179,013	209,942	287,765	287,765	1,26
area arrigable in enterprises———————————————————————————————————			² 52 ,885	2246,480	225,992	314,929	E 750 NE	14,85
Capital invested in irrigation enterprises——————dollars——Average investment per acre based on area existing			587,834	7,185,522	6,836,648	5,766,895	5,752,045	•
works were capable of suplying with water———dollars— Sstimated complated cost of existing enterprises———dollars—	ļ		12.47	40.13	32.56	20.04	19.99	11.7
Estimated completed cost of existing enterprisesdollars iverage annual cost per acre irrigated for			612,854	7,285,522	6,844,092	5,878,930		
maintenance and operation of irrigation worksdollars-				15.67	7.05	5.46	5.45	5.2
Cansas:			716	209	500	1,066	988) ;
Irrigation enterprises number- Farms irrigated number- area irrigated acres	519	929	1,006	504	683	1,578	1,578	
area irrigated	20,818	25,620	57,479	47,312	71,290	99,980	99,980	15,66
Area aristing irrigation works were capable of supplying with water area irrigable in enterprises acres—area irrigable in enterprises———————————————————————————————————			139,995	67,855	83,583	142,409	142,409	19,16
Area irrigable in enterprisesacres-			2161,300	2 102 ,562	95,719	147,226 2,153,886	1,896,991	256,8
Capital invested in irrigation enterprises———————————————————————————————————	84,729	529,755	1,365,565	2,067,581	1,685,652	2,500,000		,
works were capable of supplying with waterdollars-	34.0	7 322.45				15.12	13.32	15.4
Estimated completed cost of existing enterprises	1		1,365,568			2,255,579	2.29	2,3
	l							ļ
South Dakota; Irrigation enterprises musber Farms Irrigated musber			595			274	274	
Fares irrigated acres	- 18 - 15,71					967 60,198	967 60,198	
ires existing irrigation works were capable of	10,11	40,000	1	1	1).	\	1
supplying with water————————————————————————————————————		_	128,481 201,625	150,914 2188,382	109,550	121,847 123,961	121,84	
Capital invested in irrigation enterprisesdollars-	65,96	8 284,747	3,043,140			5,595,610	5,595,610)
Average investment per acre based on area existing works were capable of supplying with waterdollars-	t	7 36.52	23.69	36.21	41.10	44.28	44.20	3
Estimated completed cost of existing enterprisesdollars-			5,800,556					
Average annual cost per acre irrigated for maintenance and operation of irrigation worksdollars-	i	_	0,64	1.26	1.55	1.28	1.2	3
North Dakota;							_	_
Irrigation enterprises — number Farse irrigated — number —			48					[2
iras irrigatad	44	7 54 5 4,872					1	
Area existing irrigation works were capable of aupplying with water	}	-,)	1 '	1		1	,
Area irrigable in enterprises			21,917 258,175	7 34,235 3 257,476		39,558		
Capital invested in irrigation enterprisesdollars		16,980	856,482	1,857,118				9
Average investment per acre based on area existing works were capable of supplying with water-dollars		5.49	38.17	7 54.2	5 52.79	48.07	48.0	n
Retinated completed cost of existing enterprisesdollars			836,48					
Average annual cost per acre irrigated for maintenance and operation of irrigation works————dollars			28.40	5.5	0 1.97	1.41	1.4	1
Oklahoma:					_		.,	
Irrigation enterprises		_ 12	- 11·					
Area irrigatedacres-		2,75						
Area existing irrigation works were capable of supplying with water acres			_ 6,59	1		8,624	8,6	4
Area irrigable in enterprisesacres-			- 28,52	8 211,74	2 7,344	13,494		
Capital invested in irrigation enterprises	-	- 21,87	2 47,20	0 151,52			272,1	50
Average investment per acre based on area existing works were capable of supplying with waterdollars		37.9			5 21.8	31.5		56
Estimated completed cost of existing enterprisesdollars			47,20					
Average annual cost per acre irrigated for maintenance and operation of irrigation works————dollars			_ 0.5	1 2.9	2 7.6	5.5	5 3.	55
•	1	1	1	1	1	1	1	

Number of farms irrigated as reported in the Census of Agriculture, 1940. *For 1910 and 1920, relates to total area in enterprises. Areas irrigable for those years not reported. 3Not shown graphically.

TABLE 4. - AREA IRRIGATED, 1902, 1919, 1929, AND 1939; AREA EXISTING WORKS WERE CAPABLE OF SUPPLYING WITH WATER AND AREA IRRIGABLE, 1920 TO 1940; CAPITAL INVESTED AND AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1902, 1920, 1930, AND 1940; BY SPECIFIED DRAINAGE BASINS

(For the 17 western States and Arkansas and Louisians. See chart X)

	701 000 31	#00 00111 D.		insas and Lou				7		
DRAINAGE BASIN		ARKA IRRIGA	TED (ACRES)			ORKS WERE	CAPABLE OF TER (ACRES)	ARBA	IRRIGABLE (A	CRES)
	1902	1919	1929	1959	1920	1930	1940	19201	1950	1940
Summary (19 States)	9,431,066	19,191,716	19,547,544	21,005,759	26,020,477	26,101,6	90 28,055,24	35,890,821	80,599,470	31,305,9
ad River (of the North)————————————————————————————————————	682		2,099	4,495		2,0	99 7,98	0	2,409	8,10
issouri River, summary	2,555,237	4,147,278	4,185,160	4,410,585	5,805,680	5,472,0	12 5,942,95	8,485,171	6,251,875	6,542,5
Yellowstone River	427,559	889,025	861,145	984,530	1,322,504	1,210,6	00 1,560,21	7 1,826,870	1,401,212	1,515,24
Platte River	1,286,345	2,156,402 1,121,851	2,515,297 1,008,758	2,360,615	2,579,720 1,905,606	2,813,1	95 5,061,85 27 1,521,38	5 3,431,057 5 3,225,264	3,081,680	5,359,9
All other tributaries Lesiesippi River, exclusive of Missouri River, summary Arkansas River All other tributaries All other tributaries All other tributaries Lover and Ric Grande Lover and Ric Grande Lover and Ric Grande Lover Cande, summary Pecos River All other tributaries Lorded River, summary Upper Colorado River Creen River Lower Colorado River Lower Colorado River Sonake River Lahontan Leke Lahontan Leke Lahontan Leke All other tributaries Lemath River All other tributaries Lemath River scramento-San Joaquin Delta and tributary streams-	819,355	1,121,001	1	1		1	1 ' '	1	ì	1,687,3
sumary	393,687	958,493	902,560		1,152,261	1,170,5		1 1,545,064		1,458,5
Arkansas River	292,085	851,150 107,343	753,583 149,027	679,919 247,675	1,009,921	960,6	22 955,813 61 417,59	2 1,544,646 9 198,418	1,051,965	1,050,5 427,9
All other priores other than Mississippi	1	107,040	140,000	241,010	747040	203,8	417,00	100,220	220,707	34,,0
River and Rio Granda	577,809	698,077	662,958	902,892	1,157,529	1,221,9	97 1,520,79	8 1,602,169	1,536,404	1,874,6
o Grande, summary	504,942	1,312,855	1,564,725	1,521,578 217,542	1,914,285	1,914.7	81 2.177.70	5 2,628,153	2,177,564	2,378,0
Pecos River	78,855	176,458	175,798	217,542	281,150	225,6	42 314,48	4 397,443	287,164	349.8
All other tributaries	426,087	1,156,597	1,568,927	1,304,036	1,635,155	1,691,1	59 1,863,27	1 2,250,710	1,890,500	2,028,1
olorado River, summary	927,183	2,326,690 1,844,258	2,537,124 1,968,667	2,638,120	3,009,219	5,385,9	14 3,567,74	4 4,102,096 5 5,256,592	4,435,529	4,017,7 2,157,7
Upper Colorado River	549,065	1,844,258	1,968,667	1,464,271	2,360,597	2,516,1	1,808,05	5 5,256,592	3,485,341	2,157,7
Green River2 3	254,951	586,387 482,452	610,659		855,264 648,622		77 782,57	1 1,148,821	926,619 950,188	950,1
Lower Colorado Kiver	278,120	2,277,651	568,457 2,036,033	1,175,849	2,825,313	819,7	65 1,559,68 92 2,581,17	1 4,165,450	5,004,651	2,504,6
Test Basin, Summary	686 858	1,255,747	1.104.975	1,085,258	1,479,758	2,556,4 1,240,5 1,296,1 4,241,2	46 1,205,71	2,005,750	1,349,150	1,272,0
Labortan Lake 4	8947.575	1,041,904	1,104,975	990,489	1,345,560	\$1,296.1	46 1,175,46	2,161,700	51,655,521	1,252,5
olumbia River, summary	1.297.457	3,875,245	3,393,640	5,819,758	4,968,518	4.241.2	44 4,426,56	0 2,161,700 7 6,556,801	4,992,151	5,001,4
Snake River	807.044	2,712,618	0 440 004	2.625.355	5.376.146	2,775.6	21 8,018,88	9 4.057.747	1 3.180.120	5,345,0
All other tributaries	490,393	1,160,627	1,054,576	1,194,583	1,592,572	1,467,8	25 1,407,47	8 2,279,054	1,862,011	1,658,4
lamath River	80,433	153,105	187,991	271,058	205,374	264,9	149 310,56	0 362,795	516,259	584,0
Acramento-San Joaquin Delta and tributary streams- acific Ocean streams, exclusive of Gulf of California streams, Columbia and Klamath Rivers, and Sacramento-San Joaquin Delta and tributary	1,139,243	2,744,844	5,157,132	5,593,882	4,115,524	4,795,6	5,152,59	7 5,499,735		5,660,3
streame	341,596	695,807	914,801	1,032,294	858,874	1,141,2	50 1,422,99	7 1,150,766	1,222,604	1,461,6
Whitewater Draw and Vamori Wash (Gulf of Calif.)	584	5,871	5,301	8,498	9,950	7 (4)	55 15,46	2 16,625	5,570	14,2
		<u> </u>	<u> 1 ·</u>	1	<u> </u>	_l		<u> </u>		1
		CA	PITAL INVEST	ED (DOLLARS)			AVERAGE INVES	TMENT PER ACH UPPLIING WATE	E WORKS WERE	CAPABLE OF
DRAINAGE BASIN			7000			40	1902	1920	1950	1940
	1902		1920	1950	18	40	1905	1840	1900	1940
Summary (19 States)	91,00	0,595 6	97,857,328	7892,755,	790 1,052	,049,201	9.65	26.81	54.20	57.
Red River (of the North) Missouri River, summary Yellowstone River Platte River		5,957		20,	925	150,566	5.77		9.97	15.
dissouri River, summary	16,17	6,277 1	51,555,106	136,506	721 179	,750,258	6.39	22.66	24.95	50,
Yellowstone River	2,77	0,255	30,181,550	27,917,1	5.10	,767,196	6.48	22.82	26.56	29,
Platte River	9,24	1,861	62,893,985	69,495,	120 95	,210,869	7.18	24.58	24.70	51.
All other tributaries	4,16	4,181	38,477,573	35,096,	291 45	,772,175	5.08	20.21	24.24	28.
Wississippi River, exclusive of Wissouri River,	1		FF 305 505	** ***				50.55	27.19	27.
Automaty	4,61		55,183,789	51,851,0	20 27	,101,932 ,691,527	11.75	29.94	22.61	28.
AFKANSAS KIYOF	4,58	6,655 3,159	50,241,390 4,942,399	21,722, 10,109,	450 30	,410,605	55,08	54.72	48.15	24.
Oulf of Marian etrapes other than Mississiani	}	,105	2,020,000	دو فاعدو دام		,,,,,,,,,,	33,40	24114	*****	~*.
River and Rio Granda	8.94	6,265	29,459,808	28,578,	195 50	498,361	15.52	25.45	25.59	20.
lio Grande, summary	6.49	5,615	34 .824 .111	55,748,	60a) 80	1.565.998 l	12.86	18.19	28.07	56.
Pecos River-	- 5.1B	5.855	7.485.049	7,220	517 12	,855,650 ,708,348 ,800,882	40:40	26.62	32.29	40.
All other tributaries	3,50	7,760	27,541,062 88,959,884	46,528, 152,550,	291 67	,708,548	7.76	16.74	27.51	56.
Colorado River, summary	11,29	8,671	88,959,884	152,550,	247 155	,800,882	12.19	29.55	59.67	46.
Upper Colorado River ²	6,50	9.557	58.964.054	67,315,	624 i 46	3.448.752	10.05	24.98	26.75	25.
Orsen River	1,47 4,78	0,459	8,592,546	8,820,	455 12	,160,991	5.77	10.05	11.15 79.53	15. 70.
Lower Colorado River	4,78	8,114	29,975,850	85,034,	024 105	,552,150 ,698,865	17.22 6.19	22.02	26.64	25.
Pennsilla Takanin	10,11	5,199	62,207,175	67,579,	422 87	,401,770	9.51	19.56	25.94	51.
Laborton Take] 5°,53	1,125 4,076	28,676,299 55,528,876	29,695, 57,885,	A52 22	,297,095	5.78	24.92	29.25	18
Columbia Rivay augustus	10 00	1,415	145,672,582	157,855,	114 20	5,525,502	8.36	29.52	87.10	46
Sneka River	8 74	9,247	95,625,117	95,265,	245 125	5,820,482	8.55	27.75	55.65	41.
All other tributaries	4.10	2,168	52,047,265	64,069,	869 83	,202,870	8.37	52.69	45,67	57
Clarath River	- 52	9.456	5,502,890	9,430,	566 10	,430,941	6.58	26,79	55.59	. 55.
Yellowstone River— Platte River— All other tributaries— Mississippi River, exclusive of Missouri River, mummary— Arkansas River— All other tributaries— Oulf of Mexico streams, other than Mississippi River and Rio Grande— River and Rio Grande— River and Rio Grande— River and Rio Grande— Colorado River, summary— Upper Colorado River ² — Creen River— Lower Colorado River ² — Creen River— Grast Basin, summary— Bonneville Lake— Lahontan Lake ⁴ — Columbia River, summary— Snake River— All other tributaries— Liamath River— Sacramento-San Joaquin Delta and tributary streams Footic Colorantes— Colirio Constantes— Colorantes— Coloran	- 10,98	5,469	100,527,759	164,628,	095 173	,004,959	9,64	24.44	54.53	55 .
California streams. Columbia and Klamath Rivers.]		
and Sacramento-San Josquin Delta and tributary		3.742	65.507.056	110.495.	970 120	0.818.550	52.07	75.94	96.82	94

Streams Whitewater Draw and Vamori Wash (Gulf of Calif.)

65,507,056 299,568

120,818,550

10,855,742 6,735

Relates to total area. Area irrigable in 1920 not reported.

That for Irrigation Consus of 1930, included in published Agriculture Consus Reports, as "Other Tributaries of Colorado River," are allocated 85 percent to the Upper Colorado River Drainage Basin and 15 percent to the Lower Colorado River Drainage Basin.

Tholudes data for Imperial Valley, Calif., for all Consuses, and data for some small unidentified basins in the Colorado River Drainage Basins in Consuses of 1902

[&]quot;Includes data for Imperial Valley, Calif., for all Censuses, and data for some small unidentified basins in the Coloredo River Brainage Basins in Censuses of 1902, and 1930 include data for some small unidentified basins in the Great Basin Drainage Basins.

Statistics for Irrigation Censuses of 1902, 1920, and 1930 include data for some small unidentified basins in the Great Basin Drainage Basins.

Throughout the Whitewater River Basin for Censuses of 1920 and 1940 are included in the Chempton River Basin.

Based on area irrigated. Area works were capable of supplying with water in 1902 not reported.

Revised.

AU OF THE CASE

TABLE 5.-AREA IRRIGATED, 1909 TO 1939; AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, AREA IRRIGABLE, AND AVERAGE ANNUAL COST PER ACRE OF MAINTENANCE AND OPERATION OF

											(For the	17 western	States and
				LREA IRRIGAT	'ED		ARBA W		APABLE OF SU WATER	PPLYING	ARI	RA IRRIGABLI	s
	STATES	1909	1919	1929		989	1920	1950	19		1920²	1980	1940
ļ	·	(Acres)	(Acres)	(Acres)	Primary (Acres)	Supplemental (Acres)	(Acres)	(Acres)	Primary (Acres)	Supplemental (Acres)	(Acres)	(Acres)	(Acres)
									SURPACE SO	urces (stream	s, lakes, a	ND SPRINGS,	GRAVITY OR
ı	Summary (19 States)-	13,755,445	16,586,422	15,544,805	L6,653,782	2,762,340	22,510,141	20,844,073	22,170,892	5,566,910	30,332,521	24,796,758	24,898,591
2 5 4 5 6	Arizona Arkansas California Colorado Idaho	512,466 5,355 2,515,381 2,785,750 1,428,971	199,546 6,619 3,020,897 5,082,467 2,427,541	174,608 1,577 2,510,659 5,196,102 2,065,971	125,874 7,254 2,558,654 5,085,448 2,168,984	58,151 59 99,895 519,025 906,945	512,644 7,810 4,289,835 3,546,394 3,002,625	282,084 1,917 5,851,490 5,864,285 2,471,610	161,926 11,967 4,087,435 5,749,967 2,470,701	91,157 50 140,515 606,357 1,049,687	422,339 8,050 5,516,870 4,579,827 8,650,932	468,057 2,672 4,865,274 4,297,355 2,665,572	220,652 16,527 4,536,694 4,112,578 2,741,967
7 8 9 10	Kansas Louisiana Montana Nebraska Newada	\$5,518 228,574 1,678,822 255,811 701,648	`52,137 281,427 1,585,784 440,782 509,959	56,792 263,246 1,513,959 505,648 457,245	49,551 290,154 1,695,787 519,043 700,214	257 150 168,806 156,065 84,204	44,094 492,528 2,579,105 559,140 653,077	62,269 526,178 2,174,494 667,953 672,986	70,488 505,937 2,327,699 852,315 797,857	257 557 254,211 292,980 125,240	44,490 551,060 4,077,527 761,502 1,256,183	75,198 552,497 2,508,432 724,951 901,685	71,904 527,155 2,571,400 948,212 869,898
12 13 14 15 16	New Merico	406,889 10,247 4,319 684,669 61,792	453,552 12,007 2,716 871,900 96,168	444,655 8,861 734 764,625 66,091	426,209 21,568 2,954 1,011,345 58,695	104,267	591,368 54,145 9,333 1,201,343 141,965	561,657 23,475 6,329 993,977 108,529	563,698 56,469 5,281 1,215,432 118,499	140,665	810,137 57,586 11,383 1,576,996 177,870	643,804 24,079 6,329 1,264,787 121,269	623,822 59,505 9,925 1,593,240 120,289
17 18 19 20	Texas Utah Washington Wyoning	595,548 995,010 525,714 1,185,165	487,247	710,635 1,147,995 461,227 1,194,177	757,239 1,121,521 580,122 1,475,628	66,849 520,569 185,789 93,437	1,478,877 580,626	1,328,324 586,796	1,510,626 1,296,806 687,091 1,900,720	159,171 567,297 218,130 162,946	1,501,064 2,098,681 763,648 2,487,476	864,859	1,707,437 1,568,800 790,162 2,228,826
											UNDE	ROROUND SOU	RCES (WELLS
1	Summary (19 States)	655,761	1,364,659	2,117,012	2,570,592	524,870	1,797,299	2,542,637	5,697,065	701,484	2,572,264	2,808,727	3,848,569
2 5 4 5 6	Arisons Arkanas California Colorado Idaho	7,585 24,598 550,725 8,282 1,877	41,810 155,260 868,060 14,590 1,545	142,978 1,464,960 15,929	146,496 149,915 1,519,502 65,509 8,595	15,655 502 355,447 108,990 3,057	168,548 1,117,383 20,556	151,209 199,849 1,661,072 20,044 6,660	204,552 268,145 2,080,025 85,995 11,345	22,194 1,216 484,237 131,875 3,895	108,178 235,620 1,580,740 27,819 4,395	185,585 215,144 1,817,884 23,352 7,709	254,456 288,345 2,156,057 87,498 12,872
7 8 9 10 11	Kansas Louisiana Montana Nebraska Nevada	1,961 109,547 262 159 187	15,285 155,575 551 546 1,171	175,787 1,064 25,452	45,058 156,778 1,542 81,034 5,409	57 15,548	211,315 556 1,148	243,720 1,462 30,922	64,041 222,632 1,733 126,888 4,915	18,926 3,985 58 23,750 605	917	18,857 270,577 1,570 55,172 10,292	67,527 250,994 1,819 153,451 6,098
12 15	New Mexico	54,829	52,295	58,118	98,818 47		65,987	64,104	130,601 53	5,780	102,615	65,475	156,954 55
14 15 16	Oklahoma Oragon South Dakota	69 1,460 1,456		5,891	792 8,528 701	705	136 2,904 130	4,300		895	156 3,499 250	79 4,798 548	12,566
17 18 19 20	Texas Utah Washington Wyoming	57,782 4,400 8,664 159	44,466 12,594 20,685 166	19,655	15,958	2,625 875	16,908 24,271	21,995 24,755	19,667 25,799	60 2,987 879 144	50,086	25,278 27,147	21,492 27,458
												OTH	er and vixed
1	Summary (19 States)-	44,079	1,440,655	2,085,729	1,779,565		1,915,057	2,715,180	2,187,295		2,986,036	2,995,985	2,558,789
2 5 6	Arizona 6 Arkansas California 6 Colorado Idaho		226,209 2,067 350,285 251,528 59,920	7,252 971,015 181,588	4,452 991,612 71,726		252,175 2,655 487,248 288,598 88,451	8,176 1,502,688 194,588	7,653 1,281,120 79,580		282,636 2,810 707,597 615,442 124,721	8,176 1,592,737 207,544	10,259 1,565,444 85,374
7 8 9 10 11	Kansas Louisiana Montana Nobraska Veyada	44,079	1,890 17,880 95,594 1,862 50,517	11,858 79,889 5,517	20,168 14,080 10,500		3,180 24,899 173,839 2,180 69,827	25,267 100,044 2 4,766	14,958		5,038 59,004 250,904 4,238	27,527 112,421 4,916	85,647 14,995 13,924
12 15 14 15 16	New Mexico		52,550 65 126 111,857 4,584	551 776 150,197	45- 29,500		40,764 90 200 159,799 8,819	553 5 956 7 159,953	2,200		49,127 90 203 545,492 10,262	781 930 206,541	2,225
17 18 19 20	Washington		24,929 174,222 21,987 88,500	156,475	58,85 14,89	7	- 32,754 - 202,765 - 32,254 - 62,75	5 192,156 4 19,96	8 41,241 18,657		63,68 230,47 42,956 76,97	207,51	7 42,241 5 19,496

Resed on the area irrigated in enterprises reporting cost of maintenance and operation in the crop year enumerated.

Total area in enterprises. Area irrigable not reported in 1920.

Contains \$100,000 for which no acreage was reported and which was not included in computing average investment per acre.

States reporting less than 100,000 acree, area works were capable of supplying with water, in 1940 not shown graphically.

Revised.

Other and mixed sources in Arizona and California are largely for enterprises reporting streams, gravity or pumped, with wells pumped.

CAPITAL INVESTED, AND AVERAGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1920 TO 1940; IRRIGATION ENTERPRISES, 1919 TO 1939; BY SOURCE OF WATER SUPPLY, BY STATES

Arkansas and Louisiana. See chart XI)

	CAPITAI	invested, J	ANUARY 1		AVERAGE	INVESTMENT SUP	PER ACRE W PLYING WITH	ORKS WERE C	APABLE OF	AVERAGE A	NNUAL COST AND C	PER ACRE OF	MAINTENANCE
1920	1930		1940		1920	1950		1940	,	1919	1929	3	959
(Dollars)	(Dollars)	Total (Dollars)	Primary (Dollars)	Supplemental (Dollars)	(Dollars)	(Dollars)	Total (Dollars)	Primary (Dollars)	Supplemental (Dollars)	(Dollars)	(Dollars)	Primary (Dollars)	Supplemental (Dollars)
	L	TER, AND WAST	E WATER) OF					, , , , , , , , , , , , , , , , , , , ,	(-0-3320)		(JOLIAID)	(BOILETS)	(DOLIAIS)
33,723,689	589,676,749	744,435,919	672,917,002	71,518,917	23.92	28,29	33.58	30.55	20.05	1.75	1.64	1.27	0.36
12,593,094 111,324 06,147,114 75,509,625 89,148,755		14,418,570 180,252 124,316,682 101,824,106 99,740,085	12,420,810 179,902 118,748,821 89,821,241 86,505,491	1,997,560 \$50 5,567,861 12,002,865 13,434,592	39.64 14.25 24.74 20.75 29.69	77.04 16.99 28.94 22.05 53.28	89.04 15.06 30.41 27.15 40.37	76.71 15.05 29.05 23.95 34.93	21.92 7.00 89.68 19.80 12.80	2.59 7.65 2.55 0.87 1.15	3.51 6.14 2.89 0.85 1.43	1.97 5.06 2.15 0.58 0.98	1.89 7.69 1,39 0.36
1,257,816 8,501,068 50,354,367 13,643,282 15,588,532	947,879 8,925,848 48,409,882 20,715,880	768,696 6,707,445 67,006,643 38,634,746 16,272,427	767,896 6,706,017 61,557,816 34,038,969 12,830,961	800 1,428 5,468,827 2,595,777 3,441,465	28.53 16.85 19.52 24.58 21.46	15.22 16.95 22.26 31.01 21.35	10.91 15.26 28.79 42.98 20.40	10.89 15.25 26.44 39.94 16.08	5.38 4.00 25.55 8.86 27.92	1.74 7.55 1.26 1.48 0.69	0.97 5.62 0.87 1.45 0.85	1.26 5.75 0.71 1.07 0.42	0.38 0.95 0.12 0.65 0.45
14,523,385 1,856,618 95,250 23,940,423 5,391,253	16,811,289 1,264,039 132,620	28,009,265 1,752,369 129,077 49,246,557 5,347,447	28,007,132 1,752,369 129,077 45,052,846 5,347,447	2,131	24.56 54.37 10.21 19.95 57.98	29.93 53.42 20.95 29.73 41.33	49.69 48.05 24.44 40.52 45.13,	49.68 48.05 24.44 57.07 45.13	16.14	1.65 5.50 1.68 1.18 1.26	1.87 1.97 8.18 1.27 1.35	1.80 1.40 2.10 1.12 1.25	0.58
50,401,891 28,832,957 26,423,472 35,603,665	43,300,579 31,265,939 35,325,731	58,850,985 40,494,786 52,166,552 40,589,675	56,691,797 27,892,277 45,665,158 59,022,975	2,139,188 12,602,509 6,503,174 1,566,698	29.31 19.50 45.51 19.01	40.75 23.54 60.20 20.98	44.89 31.25 75.92 21.35	43.26 21.51 66.46 20.55	15.57 34.31 29.81 9.61	6.68 1.09 2.98 1.04	4.49 0.98 3.25 0.84	4.12 0.73 2.46 0.56	0.64 0.25 0.35 0.34
FLOWING AND,	OR PUMPED)	OF WATER SUPP	PLY 4	r	₁ ,,		y	I					
82,180,666	144,975,284	159,878,812	145,256,791	16,642,021	45.72	57,02	43.24	38.74	25.72	9.84	9,92	6,88	3.83
3,587,975 7,028,778 56,640,694 435,828 58,587	6,640,773 5111,174,363 585,305	5,373,470	9,814,964 5,414,555 106,189,336 1,598,114 226,505	513,670 14,500 15,157,521 1,975,356 116,240	57.42 41.70 50.69 21.20 35.40	59.12 33.28 66.93 29.20 30.65	50.55 20.25 57.58 40.16 30.22	48.05 20.19 51.05 16.65 19.97	25.14 11.92 27.17 14.98 29.84	12.82 14.06 10.50 3.38 3.01	10.70 7.04 11.25 4.48 2.69	7.91 5.53 8.46 3.74 2,59	3,53 4,69 4,38 2,96 2,35
745,583 5,394,448 26,292 23,250 75,975	6,282,965 25,284 616,959	1,275,015 4,324,076 48,751 2,260,097 285,229	1,018,920 4,308,803 48,031 1,991,453 213,344	256,095 15,273 700 268,644 71,885	36.23 25.53 47.29 20.25 42.11	35.87 25.78 15.93 19.95 34.41	19.91 19.42 28.12 17.81 58.05	15.91 19.55 27.72 15.69 43.41	13.58 3.83 12.07 11.51 118.82	6.96 5.93 6.80 5.16 17.25	3.92 4.44 5.06 4.05 4.65	5.35 5.48 4.48 3.48 1.85	2.23 1.55 15.00 1.44 1.96
2,533,687	2,441,540	3,238,644 3,120	3,134,071 3,120	104,573	39.60	36.09	24.80 58.87	24.00 58.87	18,09	5.27	5.59	3.91 7.26	2.03
52,075 127,806 5,000	256,265	87,265 545,944 21,250	87,265 504,697 21,250	41,247	382.90 44.01 38.48	185.23 59.80 11.26	76.35 45.44 27.96	76.55 42.01 27.96	46.19	46.10 8.24	14.30 10.54 0.35	6.48 6.34 2.19	6.73
3,286,855 358,814 1,805,954 15,090	4,086,553 754,403 1,993,028	6,657,288 616,996 1,579,630 114,988	6,655,588 542,877 1,549,232 114,688	1,700 74,119 50,598 500	40.76 17.92 74.32 80,27	48.26 34.50 80.51 20.79	15.52 51.57 61.23 25.18	15.32 27.60 80.05 25.12	28.33 24.61 34.58 2.08	10.98 2.08 11.25 7.95	8.37 2.97 15.36 25.56	3.09 2.84 9.52 4.43	1.67 2.00 4.50 0.69
Sources of	WATER SUPPLY	4											
81,752,973	158,103,757	147,734,470	147,734,470		42.73	58.23	67.54	67.54		5.39	4.05	8.57	
17,517,025 43,225 32,098,580 14,558,989 2,293,667	163,500 88,345,499 1,811,103	1,651,767	58,779,604 157,610 75,225,879 1,651,767 2,502,970		69.46 16.28 65.88 49.78 25.94	109.14 19.97 67.82 9.52 14.64	122.98 20.59 61.10 20.76 22.45	122.98 20.59 61.10 20.76 22.45		2.77 5.59 8.38 0.92 1.85	3.08 6.99 6.13 0.58 1.60	4.69 3.54 3.87 1.09 1.66	
65,982 567,645 1,762,704 42,653 1,089,973	535,930 1,886,038 55,500	110,175 533,992 297,181 161,364	110,175 533,992 297,131 161,364 349,134		20.12 14.77 10.14 19.57 15.61	27.62 21.21 18.85 11.25 14.41	15.98 17.04 19.86 11.75 9.06	13.98 17.04 19.86 11.75 9.06		1.65 7.79 1.04 2.65 1.54	9.50 9.55 0.81 1.25 1.41	5.01 5.00 0.95 1.29 0.37	
1,155,540 500 4,000 4,860,922 68,995	13,275 15,254 2 8,951,197	55,844 1,168,770	1,488,090 55,844 1,168,770 26,913		28.29 5,56 19.70 34.77 7.82	18.80 25.00 16.30 55.97 20.65	25.38 34.75	25.38 34.75 10.40		10,00 1,21 1,14	-1.93 4.91 1.93 0.09	9.90 1.54 2.63	
1,585,995 2,865,600 1,071,605 707,575	1,635,032 3,649,477 5,243,136	953,105 784,750 2,669,234	955,105 784,750 2,669,254		42.25 14.15 33.22 11.27	55.01 18.99 162.48 28.42		33,12 19.03 143,22 99.28		6.15 0.94 9.19 1.25	4.54 1.36 15.60 0.88	2.78 1.21 6.46 0.99	

TABLE 6.—AREA IRRIGATED, 1909 TO 1939; AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1910 TO 1940; CAPITAL INVESTED AND AVER-

(For the 17 western States and

		AREA	IRRIGATED (AC	res)		AREA WORKS W	ERE CAPABLE OF H WATER (ACRES)	SUPPLYING
ITE¥		Total		Primary	Supplemental		Total	
	1909	1919	1929	enterprises 1939	enterprises 1939	1910	1920	1950
				SUM	ARY			
Summary (19 States)	14,435;285	19,191,716	19,547,544	21,003,739	5,287,210	20,285,403	26,020,477	26,101,89
Individual and nartnership	6,594,614	6,848,807	6,410,581	7.314.152	596,171	8,086,766	9,255,756	7,982,14
Individual and partnership Cooperatives Irrigation district Commercial	4,643,539	6,581,400	6.271.334	7,314,152 6,652,488	858,588	6,191,577 800,451	8,403,298 2,531,425	7,861,08 4,846,09
Irrigation district	528,642 1,809,379	1,822,887	5,452,275 1,230,765	3,514,702 1,017,781	211,470 128,238	2,954,166	2,799,563	2,160,9
Commercial Bureau of Reclamation All other	395,646 461,465	1,254,569 862,052	1,485,028	1,824,004 680,612	1,460,470 32,473	786,190 1,466,253	1,680,645	1,944,8
ALT SUIGN					ates			
Galifornia:							F 704 460	6 016 9
Total Individual and partnership	2,664,104 961,136	4,219,040 1,502,870	4,746,632 1,785,457	5,069,568 2,004,621	455,842 848,721	3,619,378 1,131,951	5,894,466 1,919,663	6,815,2 2,037,3
Cooperatives	779,020	1,215,696	853.547	851.527	46,647	984,570	1,705,647	1,859,4
Cooperatives Irrigation district	173,793	577,168	1,598,830	1,684,602 368,841	12,387 23,135	294,108 1,204,059	899,785 1,307,968	2,386,9 668,9
Commercial Bureau of Reclamation	746,285	873,499 36,622	312,313 31,998	44,581	1,709	1,200	42,805	44,5
All other	3,490	13,185	214,487	115,396	22,743	3,490	18,598	318,3
Golorado; Total	2,792,032	3,348,385	3,393,619	3,220,685	628,015	3,990,166	3,855,348	4,078,
Individual and nantnanchin	1,226,025	1,014,412	969,708	907,754	133,143	1,581,941 1,870,447	1,194,422	1,194, 2,065,
Cooperatives Irrigation district	1,273,141	1,789,385 248,409	1,789,909 250,400	1,947,770		207,570	269,504	344,
Commercate:	159,457	212,138	286,846	66,699	48,581	292,103	226,641 135,285	311,1 118,
Bureau of Reclamation	16,600	71,145 12,896	81,883 34,873	83,137 28,400	13,074 (2)	30,000 8,105	36,155	46,
Idaho:	1,450,848	2,488,806	2,181,250	2,277,857	910,002	2,388,959	3,092,810	2,617,
Total Individual and partnership	403,600	513,350	527,488	324,626	8,890	483,946	639,002	598,
Gooperatives Irrigation district Connecroial	628, 102	958,421	1,198,482	1,229,045	44,300	782,603 177,900	1,190,422	1,467, 335,
Irrigation district	140,930 44,872	355,995 6,505	304,010	334,266 8,719	14,097	67,352	7,747	
Bureau of Reclamation	47,500 165,844	253,759 420,778	275,954 75,316	344,638	642,715	113,000 764,158	289,992 565,265	290, 135,
Montana							0 957 400	2,276
Total	1,679,084	1,681,729 976,615	1,594,912 885,274	1,711,409 827,564	168,863 5,504	2,205,155 1,495,513	2,753,498 1,617,617	1.099
Cooperatives	333,926	393,257	418,862	443,37	3 133,287	373,022	555,95%	524
Total Individual and partnership Cooperatives Irrigation district Commercial	412	35,153	83,870	71,434	2,072	6,640 80,895	70,650 38,215	137 28
Bureau of Reclamation All other	62,544 14,077 77,065	34,115 88,291 154,298	22,375 98,327 86,204	186,002	2	85,245 163,840	172,206 300,858	247 238
	77,000	104,200	55,204	142,000		200,212		
Total Individual and partnership	1,133,502	1,207,982	1,236,155	1,486,49	93,581	1,639,510	1,831,039	1,655 799
Individual and partnership	813,823 116,517	724,620 286,702	665,844 303,086	816,33 396,96	7 11,376 4 42,500	1,024,137 165,476	1,008,379	395
Cooperatives Irrigation district	11,800	22,935	86,174	96,68	1 24,307	27,050	54,017	1118
Commercial Bureau of Reclassion	87,935 12,905	57,800	51,460		75 800	133,305 34,869	121,310	94 144
All other	90,522	53,555 62,370	85,886 45,708		15,398	254,673		109
Total Total	451,150		798,91					1,17
Total Individual and partnership Cooperatives	49,657	110,680	132,291 58,691		1,826	65,286 183,411	256,304	יננ
Trrigation district	(5)	88,571	452,46	L 382,45	8 (4)	(5)	170,548	191
Commercial Burgau of Reclamation All other	271,462 (6) (5)	262,892 20,284	89,99 65,44	61,15	3 12,68	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	481,899 25,070 370	6
Utah:	(6)	515	3	8 1,77	3	(5)	370	
Total-	999,410		1,324,12	5 1,176,11			1,700,550	1,54
Individual and partnership Cooperatives	222,448 687,260		172,24 934,68			2 257,266	1,225,084	1,06
Cooperatives Irrigation district Commercial	8,455	21,143	8,12	5 23,39	8,00	8,455	24,023	1 .
Commercial Bureau of Reclamation All other	64,727	6 86,911 29,285	40,00	4 85,60 0 38,62		87,070	. 50,030	4
	16,520	52,776	69,24			106,600		
Oregon: Total Individual and partnership	686,129							1,1
	410,078 149,985		450,84	1 543,63	12 16,36	3 454,07		51 6 23
Indiantion district	1,500	92,081	160,97	4 204,2	71	- 1,500	198,540	24
Commercial	77,387	27,358	12,61 61,8	19 7,15 29 150,40	28 85,04	- 93,750 2 45,31	67,16	5
All other	25,179	35,099	27,5	10 5,5		- 65,93		1
Nebraskas Total Individual and partnership	255,950	442,690			79 171,63			3 7
Individual and partnership	45,221	7 68,140 5 55,408		72 123,9	79 17,98		2 96,46 0 102,24	
Cooperatives Irrigation district	76,448	206,206	219,5	90 234,6	88 56,68		8 220,85	9 2
Commercial Bureau of Reclamation	24,834	25,38	5 53,5	74 28,7	23	- 52,72	4 27,33	2) 1
Bureau of Reclamation	30,536	5 87,558 0 48			99 96,60	2 66,24 30		3

AGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1920 TO 1940; BY TYPE OF IRRIGATION ENTERPRISE, BY STATES
Arkansas and Louisians. See chart XII)

PLYING WITH	RE CAPABLE OF WATER (ACRES)— inued	1.	CAPITAL INV	ested, January 1	(DOLLARS)		AVERAGE IN	VESTMENT PER SUPPLYING WI	ACHE WORKS WERI TH WATER (DOLLA)	CAPABLE OF
Primary terprises 1940	Supplemental enterprises 1940	1920	Total 1930	1940	Primary enterprises 1940	Supplemental enterprises	Tot		Primary enterprises	Supplementa enterprises
		,	····	· · · · · · · · · · · · · · · · · · ·	UMMARY	1940	1920	1930	1940	1940
28,055,248	4,268,394	697,657,328	1892,755,790	1,052,049,201	963,888,263	00.350.000	· · · · · · · · · · · · · · · · · · ·			<u> </u>
9,635,198	798,308	154,634,169	1187,867,180	187,382,750	170.369 231	88,160,938 17,013,999	26.81	54.20	34.36	20.6
7,996,236 4,969,595	990,411 451,677	154,654,169 183,041,500 88,575,514 85,735,470 129,509,819	179,329,962 210,735,476	224,140,876 285,737,810	205,082,550 260,701,900	19,058,326	16.71 21.78 34.99	25.54 22.81	17.69 25.65	21.3 19.2
1,961,202 2,849,967	252,804 1,762,721	129,509,819	62,351,714 193,989,576	66,245,825 250,245,359	59,250,005 211,048,133	6,993,820 39,199,226	30.62	43.49 28.85	52.46 50.21	11,-1. 30,0
1,145,250	32,473	56,162,856	58,483,882	58,298,603	57,438,946	859,657	77.06 41.61	99.75 44.75	89.81 50.15	22.2 26.4
				S	TATES				. ,	
7,398,576 2,767,274	624,550 483,132	194,886,388 57,616,716	¹ 310,967,979 ¹ 108,129,435	\$18,889,218	500,164,036	18,725,182	83.06	45,63	40.57	29.96
1,194,742 2,384,379	68,015 12,587	48,899,448 35,985,301	48,682,089 105,349,178	109,682,184 58,187,092	97,017,879 54,451,984	12,664,505 5,755,108	50.01 28.67	53.07 35.81	35.06 45.58	26.23 54.93
740,007 60,297	36,566 1,709	44,996,723	24,660,758	109,319,715 28,354,269	109,122,822 26,287,295	196,893 2,066,974	87.77. 84.40	44.14 36.88	45.77	15.90
251,877	22,743	2,898,220 6,989,980	5,520,644 18,625,895	5,915,578 7,430,380	5,874,308 7,409,748	41,270 20,632	56.03 375.85	125.81 .8.50	35.52 97.42 29.42	56.5 24.1 0.9
5,913,542 1,110,597	758,252 166,528	88,302,442 11,599,883	87,608,240 10,815,909	106,849,843	92,871,122	13,978,221	22.90	21.48	23.73	18.98
2,307,280	166,528 8466,787 35,000	42,911,035 16,269,026	45,651,717 12,657,718	11,348,304 #58,829,793	8,829,100 50,168,249	2,519,204 ² 8,661,544	9.71 21.53	9.06	7.95 21.74	15.18 218.58
97,801 121,746	53,581 16,536	5,711,887	0,024,989	15,621,957 6,228,398	15,332,375 4,933,745	289,584 1,294,655	60.87 25.20	36.78 18.04	65.57 50.45	8.27 24.16
42,277	(a)	1,557,580	1,551,507	12,928,239 ² 1,892,652	11,715,005 1,892,652	1,213,234 (2)	75.80 43.08	99.55 27.85	96.22 44.77	74.27 (2)
2,595,534 388,916	1,053,582	91,501,009 5,747,004	84,500,354 3,478,615	102,585,798	89,034,966 2,761,026	18,550,832	29.59	52.29	54.33	12.86
1,842,511 562,665	55,807 14,097	36,576,664 11,954,046	54,785,666 10,725,498	41,584,885	40,502,309 13,804,612	161,171	8.99 30.73	8.95 23.71	7.10 30.17	15.52 18.66
8,719 424,840	978,656	698,179 17,804,839	29,603,539	113,660 41,868,781	11.5.660	70,000	29.86 90.12	32.01	38.06 13.04	4.97
65,883	-	18,720,277	5,914,041	2,272,163	29,581,198 2,272,163	12,287,585	61,40 33,12	101.99 48.65	89.63 34.49	12.62
2,344,390 986,782	254,269 6,238	52,143,363 15,543,287	50,319,204 7,595,504	67,352,505 6,238,533	61,882,978 6,212,642	5,469,527	18.94	22.11	26.40	23.35
569,880 82,711	177,959 2,072	6,692,877 1,708,851	8,466,956 5,404,781	11,760,098 3,736,632	8,934,147 8,711,632	25,891 2,825,951	9.61	6.91 16.16	6.30 15.68	4.15 15.88
112,285 523,197	48,000	676,535	652,480 18,325,910	3,945,268 26,607,374	1,832,608	25,000 2,112,660	24.19 17.70	39.32 21.98	44.87 16.32	12.07 44.01
269,537		18,140,495	9,898,595	15,064,600	14,584,575	480,025	83.51 43.68	78.97 41. 53	82.53 54.11	3 60-00
1,913,527 995,736	165,090 15,492	34,326,328 8,738,886	35,153,187 5,410,053	41,522,801 7,819,522	39,955,803	1,566,998 45,649	18.75 8.67	21.24	20.88	9.61
509,748 117,976	45,586 85,691	6,701,990	4,786,271 2,615,006	7,746,056 5,249,158	7,773,873 7,553,366 4,096,984	192,690 1,152,174	15,48	6.77 12.11	7.81 14.82	2.95 4.25
56,653 170,643	16,321	780,562 12,865,870	2,299,870 17,569,985	2,980,102 15,411,395	2,980,102 15,284,910		26.68 6.43	22.66 24.27	34.73 52.60	13,45
62,771		3,799,708	2,452,002	2,316,568	2,316,568	176,485	138.29	121.69 23.16	89.28 36.91	10.81
1,775,812 565,686 90,241	159,231 2,855	85,072,789 8,256,568	49,022,164 9,371,780	66,441,378 9,105,016	64,300,488 9,091,669	2,140,888 13,347	30.48 38.16	41.64 49.39	86.25	15.38
696,415 348,392	(4) (4) (4)	5,821,844 5,449,142	8,459,486 26,543,073	1,954,900 42,700,383	1,932,900	(2)	14.91	29.36 43.90	16.15	5.05 (4) (4)
69,010	17,119	18,825,409 3,673,476	8,404,080 6,238,245	9,330,311 3,147,764	7,835,780 2,847,764	(4) 300,000	28.69 146.53	17.09 94.52	60.84 22.49 41.27	(4)
		46,300	5,500	223,052	223,052		125.14	152.78	36.76	17.52
1,357,714 142,434 958,621	570,284 6,600 154,933	52,037,351 2,786,804 20,254,212	35,669,819 3,482,497 16,763,420	41,896,582 1,428,479 19,861,261	29,219,904 1,338,791	12,676,628 89,688	18.84 18.97	28.13 17.23	21.52 9.40	54.23 13.59
24,894 98,375	8,000	265,484 63,698,770	1,896,590	2,640,455	17,707,384 2,265,455	2,153,877 375,000	16.53 11.05	15.67 234.15	18.28 91.00	13.90 46.88
40,812 82,578	193,021	3,567,057 1,515,024	5,181,980 1,124,703	5,541,088 12,698,755 1,726,494	3,541,088 2,964,692 1,402,494	9,754,063	529.16 71.30 19.25	56.19 129.55 11.95	36.00 - 72.64 16.98	50.43 41.91
1,261,081 650,375	141,558	28,929,151	88,754,548	50,961,251	46,726,313	4,234,938	21.52	33.46	37.05	
174,245 253,856	17,206 6,619	6,584,582 3,143,698	4,871,362 66,286,247	5,592,899 4,732,990	5,422,518 4,702,990	170,381 30,000	9.55	9.02	8.34 26.99	29.92 9.90 4.55
16,988	37	6,313,758 3,281,034	13,983,818	12,821,775	12,821,775	00,000	31.90 48.95	58.26 74.68	54.85 - 25.96 -	4.00
175,171	117,733	5,956,950 3,649,334	11,408,297 597,867	27,002,875 369,699	22,968,318 369,699	4,034,557	77.84 48.07	133.26	151.12 35.32 -	34,27
992,957 197,075	316,730 - 26,893	13,909,185 1,146,227	21,386,319 1,041,547	39,058,207	56,191,786	2,864,421	24.78	30.39	36.45	9.04
86,350 400,674	78,365 175,476	547,104 2,811,474	751,502 5,082,366	2,967,486 72,175,158	2,671,642 72,144,788	295,844 728,370	11.88 5.85	13,47 9.72	13.56 15.24	11.00 73.59
126,673 181,155	105,996	726,560 8,674,250	899,054 13,603,568	19,205,720	17,716,079	1,489,641	12.73 26.58	20.01 7.86	44.22	8.49 (7)
1,050		8,570	8,482	14,659,810	13,609,244 50,033	1,050,566	75.11 45.01	75.38 50.19	75.12 47.65 -	9.91

TABLE 6.-AREA IRRIGATED, 1909 TO 1939; AREA WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1910 TO 1940; CAPITAL INVESTED AND AVER-(For the 17 western States and

		AREA	IRRIGATED (AC	RES)			CHE CAPABLE OF WATER (ACHES)	
ITEM		Total		Primary	Supplemental enterprises		Total	
	1909	1919	1929	enterprises 1939	1939	1910	1920	1980
				STATES—Co	ntinued			
krisona:								
Total	520,051 61,196	467,565 80,511	575,590 73,836	653,263 131,320	73,806 15,547	587,655 81,422	627,303 195,531	824,3 107,3
Cooperatives	101,025	114,482	58,733	82,919	215	120,559	130,903	58.
Total Individual and partnership Cooperatives Irrigation district Commercial	(B) 80	300 14,500	117,869 32,600	77,164 12,200		(6)	20,000	191, 76,
Bureau of Reclamation	138,364	248,814	278,584	265,042	58,044	164,500	269,691	296,
•	19,586	8,958	13,968	84,618		20,974	11,078	94,
Nevada: Total Individual and partnership	701,833	581,447	486,648	789,863	. 84,722	840,962	704,708	756,
Individual and partnership	581,406 78,966	355,901 69,877	316,918 32,267	438,996 8222,105	7,848	88,255	453,900 85,485	502, 56,
Cooperatives Irrigation district		80,000		2,940	65,000		80,000	
Commercial	8,864 30,000	5,990 44,324	5,855 54,040	(8) 57,471	11,874	9,300 90,185	7,240 69,850	5, 90,
All other	2,597	5,855	77,568	18,351		3,381	8,235	61,
Louisiana: Total	580,200	454,682	450,901	447,095	2,579	553,220	728,742	795,
Individual and partnership	222,049	259,673	226,259	248,664	2,579	267,620	875,917 20,325	534,
Total Individual and partnership Cooperatives Commercial All other	158,151	10,635	224,625	38,640 159,764		285,600	882,500	461
			17	27				
New Mexico:	461,718	538,577	527,033	554,039	5.725	644,970	696,119	656
Total Total Individual and partnership	144,212	151,351	130,738	151,366	5,123 5,123	185,283	215,618	155 276
Cooperatives Irrigation district Commercial	251,911	264,610 15,008	233,286 22,000	168,186 86,675		355,327	505,540 24,808	37
Commercial	28,190	19,871	16,192	22,514		58,150	33,743	26 111
Bureau of Reclamation	13,398 24,007	77,678 9,859	103,090 21,727	98,064 27,234		21,467 24,743	96,751 19,659	48
Washington: Total Individual and partnership Gooperatives Irrigation district	334,378	529,899	499,283	615,013	184,664	470,514	637,151	651
Individual and partnership	95,655	142,215	88.015	104,343	10,721	117,145	169,457	108
Cooperatives	81,122	93,192 79,918	92,743 97,772	84,256 124,599	6,720 5,347	90,805	104,699	112 122
Commercial	66,911	21,705	9,474	7,290 167,085		138,064	31,652	20
Bureau of Reclamation————————————————————————————————————	55,690 35,000	122,869 70,000	118,667 92,612	167,085 127,440	161,876	74,500 50,000	155,119 78,215	187 188
irkansas: Total						(2)	179,013	201
Individual and partnership	(e) (e) (g)	143,946 140,471	151,787 145,487	161,601 158,750	341 341		175,350	203
Total Individual and partnership Cooperatives Commercial	(a) (a)	1,075 2,400	6,300	(4)		(9) (9) (9)	1,275 2,400	
Kansas;]		8.5
Eanses: Total Individual and partnership Cooperatives Commercial	37,479 3,154	47,512 14,546	71,290 16,689	99,980 58,255	13,666	139,995 4,795	67,853 26,614	2
Cooperatives	27,372	32,516	37,871	39,328		185,200	40,719 520	4: 1
Commercial Bureau of Reclamation————————————————————————————————————	6,953	150	16,000	(10)		(5)	200	
South Dakota:		100	730	*2,397			200	
Total-	63,248	100,682	67,107	60,196	3	128,481	150,914	10
Individual and partnership	37,684 13,601	31,664 10,080	11,268 19,646	10,600	3	55,820 18,245	56,032 10,615	14 24
Commercial	6,300	2.280			-	6,800	1,600	
Bureau of Reclamation	5,613 50	56,638 20	36,193	34,223 83'		47,568 50	82,592 75	
Worth Dakota:	30.010	70.000			_	21,917	84,235	2
Individual and partnership	10,248 8,638	12,072 3,306	9,392 3,303		2	9,821	7,997	_
Cooperatives Irrigation district				50	o			
Bureau of Reclamation	1,610	8,766	6,089		1	12,096	25,258	
Oklahoma:				14	/			
Total	4,388	2,969	1,573	4,16	0	6,397	9,672	
Individual and partnership Cooperatives	2,388 2,000	969 2,000	1,453 120	3,81	5	3,597 5,000	2,072 7,600	
All other	1 -,000	7,000	1 120	34	. /	1 0,000	1	1

l Revised.
2 Data for 1 State enterprise included with "Cooperatives."
3 Based on irrigable area.
4 Data are included in State totals because less than 5 enterprises reported.
5 Not included in classification in 1910.
6 Includes 1 Carey Act enterprise.
7 One "Commercial" enterprise included with "Cooperatives."
8 Data for 2 "Commercial" enterprises included with "Cooperatives."
9 Not available.
10 One "Commercial" enterprise included with "All other."

AGE INVESTMENT PER ACRE WORKS WERE CAPABLE OF SUPPLYING WITH WATER, 1920 TO 1940; BY TYPE OF IRRIGATION ENTERPRISE, BY STATES—Con.

SUPPLYING WITH	THE CAPABLE OF WATER (ACHES)—		CAPITAL INV	ESTED, JANUARY 1	(DOLLARS)		AVERAGE IN	VESTMENT PER SUPPLYING WI	R ACHE WORKS WER TH WATER (DOLLA	E CAPABLE OF	1
Primary enterprises	Supplemental enterprises		Total		Primary enterprises	Supplemental	Tota	u.	Primary	Supplements	-
1940	1940	1920	1980	1940	1940	enterprises 1940	1920	1950	enterprises 1940	enterprise	
				STATES	-Continued				L	1000	-
B44,212	115,331	53,498,094	77 700 100							T	\dashv
184,482	21,751	5,598,625	73,328,197 5,913,408	83,526,608 5,667,378	81,015,578 5,155,438	2,511,230 511,940	55.40	88.97	95.97	22.1	6
92,531 140,687	637	3,171,406 100,000	1,837,982	3,227,304 14,961,006	3.224.694	2,610	28.66 24.23	55.15 22.90	27.95 54.85	25.5	54
12,400	90.048	3,693,400	4,857,759	3,492,683	14,961,006 5,492,688		855.35 184.67	71.77	106.54	4.10	-
297,669 116,443	90,945	20,277,919 656,744	37,691,293 9,805,963	89,708,470 16,469,767	3,492,683 37,711,790 16,469,767	1,996,680	75.19 59.28	65.50 127.02 104.25	281.67 126.69	21.90	6
841,304	123,845	14,754,280	36 457 073	20 000 000			30.20	104.52	141.44		-
489,80B	8,735	4,014,570	15,457,981 4,530,708	16,906,790 2,350,895	13,393,439 2,278,510	3,513,351	20.94	21.00	15.92	28,87	,
6 255,281 3,820	75,900	1,019,047	936,400	83,605,009	a 3,236,509	440,885	8.84	9.02 16.46	4.65	50.47	,
(a) ·		540,559	227,000	888,934 (e)	84,217 (a)	804,717	15.58		812.68 22.05	10.89	· . I
66,788 25,607	41,210	7,953,537	7,767,759 1,996,064	8,838,237	6,570,488	2,267,749	47.04 115.87	38.77 86.31	(a)		-
,		270,000	1,590,004	1,225,715	1,225,715		21.85	24.58	98.58 47.79	55.08	5
759,915 419,739	4,342 4,342	14,063,181	15,744,745	11,565,518	11,548,812	16,701	19.30	19.80	15.20		. .
47,260		161,658		5,799,128 766,097	5,782,427 766,097	16,701	21.13	20.91	15.78	5.85 5.85	
292,805		5,958,271	8,757,151 3,500	4,997,688	4,997,688		7.95 17.92	18.99	16.21 17.07		- []
İ			, ,,,,,	2,600	2,600			58.35	25,42		- 1
781,990 199,699	5,912 5,912	18,210,412 5,589,372	19,834,380	32,785,997	52,629,295	106,704	26.16	80.20			
191,544		3,558,863	3,814,458 3,016,075	4,531,158 4,975,160	4,424,454	106,704	25.92	24.48	44.58 22.16	18.05 18.05	
153, 512 32,466		914,479 1,877,842	1,289,180	11,165,731	4,978,160 11,165,731		11.65 56.86	10.90 34.84	25.96		۱
115,695		5,020,230	1,543,000 8,684,489	852,957 7,760,844	852,957 7,760,844		55.65	54.69	85.65 26.27		- 2
594074		1,249,626	1,487,178	3,452,147	3,452,147		51.89 63.57	78.21 30.96	67.08 58.44		- 2 2
731,527 181,549	219,009	29,299,011	40,561,895	56,415,196	49,881,624	6,533,572	45.98				
91,528	11,058 6,720	4,732,706 3,949,896	4,467,599 4,162,417	4,246,697 5,043,916	4,178,855	67,844	27.93	64.23 42.03	68.19 31.77	29.85 6.14	
142,161 7,610	12,554	6,112,628	10,170,631	13,317,182	4,977,116	66,800 301,891	57.73 51.80	37.00 83.36	54.38	9.94	1 2
210,512	188,677	2,341,428	682,507	765,810 27,675,132	765,810 21,578,095		75.97	33.79	91.55 100.65	24.05	8
148,167		1,721,208	5,536,144	5,366,459	5,366,459	8,097,087	77.27 22.01	113.21	102.50 56.22	52.51	3
287,765	1,266	7,183,322	6,836,648	5,766,895	5,752,045	14,850	40.35				
283,525 (4) (4)	1,266	7,073,297 60,015	6,711,648	5,711,895	5,697,045	14,850	40.15	32.58 52.99	19.99 20.09	11.78 11.75	5
(4)		50,012	125,000	(4)	(3)		47.07 - 20.84	19.25	(4) (4)	11.10	50
142,409	19,165	2,067,381	1,685,652	2,153,886	2 000 000				,,		1
83,483 55,923	17,978	775,095	875,951	1,494,396	1,896,991	256,895 258,095	30.47 29.12	20.17 36.79	13.32	13.41	
(10)	1,185	1,289,737	242,001 520,000	(10)	581,282	18,800	31.67	5.76	15.05	15.24 15.86	
10 3,005		1,000	47,700	10 59,408	10 59,408		4.84	50,59	(10)		41
707 01-1			.,	65,105	20 35,400		5.00	61.15	10 19.78		45
121,847 . 26,081 .		5,465,248 743,880	4,502,117 237,424	5,395,610	5,395,610		36.21	41.10	44.28		44
21,471		240,050	196,953	240,939 256,021	240,939 256,021		13.28	16.75	9.24		45
72,504		15,058 - 4,464,780	4,067,740				22.61 9.41 —	9.45	11,92		46 47
1,791 -		1,500 -	4,007,740	4,628,868 269,782	4,628,868 269,782		54.06 20.00	54.60	63.84 - 150.63 -		48 49
56,522		1,857,118	1,267,314	1,755,489	3 855 400						
3,996 - 590 -		81,693	55,091	54.732	1,755,489 54,732		54.25 10.22	52.79 13.75	48.07 - 13.70 -		50
11,824 -				57,130 254,600	57,150 - 234,600 -				96.85 -		51 52
184 -		1,775,425	1,212,223	1,393,237 15,790	1,393,237		67.67	60.61	15,84 - 69,91 -		53 54 55
8,624 -		3			,,,,,,				85.82 -		55
7,961		151,325	160,099 85,099	272,186 180,892	272,186 - 180,892 -		15.65	21.84	31.56		56
663		40,667	75,000				53,41 5,35	35.62 15.62	22.72		57 58
				91,294	91,294 -				137.70 -		59

TABLE 7.—LENGTH OF CANALS, 1900 TO 1940; CAPACITY OF CANALS AT MAIN HEADINGS, AND NUMBER AND

(For the 17 western States and Arkansas and

				•	CANALS 1				
STATE		Le	ngth (miles)			Capacity	at main head	ings (second-	fest)
	1900	1910	1920	1950	1940	1910	1920	1930	1940
Summary (18 States)	44,555	127,950	159,864	126,802	127,533.7	618,097	651,079	547,314	612,02
Arisona Ariansss California Colorado Idaho Nansss Louisiana Montana Hebraska Herada Her Maxico North Dakota Ckiahoma Cregon South Dakota Texas Utah Washington Wroning	1,492 5,106 7,374 4,977 386 6,812 1,701 2,859 2,382 (a) 68 2,283 225 450 2,888 806 4,454	2,597 181 21,129 22,570 12,759 1,168 18,954 2,728 5,151 5,854 126 85 7,591 1,255 2,705 7,709 8,822 1,255 2,705 1,255 2,705	5,568 86 27,584 27,593 17,296 5,245 22,496 5,525 4,568 5,852 151 57 9,071 1,288 4,473 11,677 5,615 12,051	8,974 5,51 18,602 21,864 265 2,226 15,987 5,465 4,155 4,466 87 1,002 4,679 9,237 8,635 10,775	4,178.2 77.9 19,799.1 19,884.0 15,602.1 292.5 2,421.0 15,702.5 5,531.5 2,997.2 4,647.9 159.2 42.2 8,518.0 1,049.5 4,248.6 11,762.1	17,200 (*) 89,597 148,483 80,458 2,600 (*) 85,849 9,578 17,578 2,161 155 59,988 5,598 12,818 25,081 15,178 42,850	11,707 1,205 115,237 119,558 86,275 1,667 11,889 94,429 11,665 10,555 25,452 836 24,429 28,997 5,427 28,261 29,447 16,242 28,009	15,697 1,845 84,944 123,652 76,765 2,079 11,586 53,253 13,108 16,986 17,479 1,072 7,25,906 1,995 21,628 50,648 14,967 55,811	15, 25 91,77 159,76 71,51 5,53 10,33 66,74 14,22 22,99 16,68 57,21 1,9 24,6,5 15,14

^{*}Reported as main canals and ditches, Census of 1900; and as canals (mains and laterals, not including farm ditches), Censuses of 1920, 1950, and 1940.
**Not available.

TABLE 8.—AREAS, CAPITAL INVESTED, AVERAGE INVESTMENT FER ACRE, AND PROPORTIONS OF TOTALS, BY TYPE OF ENTERPRISE: 1890 TO 1940

(Statistics for chart III covering the 17 western States and Arkansas and Louisiana)

	T -					- VOLIN COM	tes and Arka	nsas and	LOUISIANA)						
						O	ENSUS OF-								
TIPE OF ENTERPRISE	1890 ¹	1900 ¹	1900 ¹ 1910			1920					1940				
(For definitions and explanations, see text)	All enter- prises	All enter- prises	All enter- prises	Proportion of total	All enter- prises	Propor- tion of total	All enter- prises	Proportion of total	All enter- prises	Propor- tion of total	Increase or decrease (-) 1930- 1940	Primary enter- prises	Supple- mental enter- prises ²		
						ARRA IRRIGATED									
	Acres	Acres	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Percent	Acres	Aores		
Total-	5,715,945	7,744,492	14,435,285	100,0	19,191,716	100.0	19,547,544	100.0	21,005,759	100.0	7.4	21,005,759	3,287,210		
Individual and partnership————————————————————————————————————	(3) (3) (3) (3) (3) (3)	(3) (3) (3) (3) (3) (3)	6,594,614 4,643,539 528,642 1,809,379 595,646 481,465	45.7 52.2 3.7 12.5 2.7 5.2	6,848,807 6,581,400 1,822,887 1,822,001 1,254,569 862,052	35.7 34.3 9.5 9.5 6.5 4.5	6,410,581 6,271,554 5,452,275 1,280,765 1,485,028 697,565	52.8 52.1 17.7 6.5 7.6 5.5	7,314,152 6,652,468 5,514,702 1,017,781 1,824,004 680,612	34.8 51.7 16.7 4.8 8.7 3.5	14.1 6.1 1.8 -17.3 22.8 -2.4	7,514,152 6,652,488 5,514,702 1,017,781 1,824,004 680,612	596,171 858,388 211,470 128,258 1,460,470 52,473		
		ARRA WORKS WERE CAPARLE OF SUPPLYING WITH WATER													
Total	Acres	Acres (3)	Acres 20,285,405	Percent 100.0	Acres 26,020,477	Percent 100.0	Acres 26,101,890	Percent	Acres 28,055,248	Percent	Percent	Acres 28,055,248	Acres 4,288,594		
Individual and partnership Cooperatives Irrigation district Commercial J. S. Bureau of Reclamation All other	0.000000000000000000000000000000000000	(3) (3) (3) (3) (3) (3) (3)	8,086,768 6,191,577 800,451 2,954,186 786,190 1,466,255	39.9 80.5 5.9 14.6 5.9 7.2	9,255,756 8,405,298 2,551,425 2,799,565 1,680,643 1,349,792	55.6 52.5 9.7 10.8 6.5 5.1	7,982,142 7,961,061 4,846,095 2,160,950 1,944,825 1,506,797	30.6 30.1 18.6 8.5 7.4 5.0	9,655,198 7,996,256 4,969,595 1,961,202 2,349,967 1,145,250	34.3 28.5 17.7 7.0 8.4 4.1	20.7 1.7 2.5 -9.2 20.8 -12.4	9,655,198 7,996,256 4,969,595 1,961,202 2,349,967 1,145,250	798,508 990,411 451,677 252,804 1,782,721 52,475		
		<u> </u>	l	<u></u>	<u> </u>	<u> </u>	TAL INVEST		1,110,200	7.1		1,110,000			
	Dollars	Dollars	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Percent	Dollars	Dollars		
Total	29,538,921	70,010,594	521,454,008	100,0	697,657,528		5892,755,790		1,052,049,201	100.0	1	965,688,265	1		
Individual and partnership————————————————————————————————————	(3) (3) (3) (3) (3) (3)	<u> </u>	3) (3) (3) (3) (3) (3) (3) (3)		154,654,169 185,041,500 88,578,514 85,735,470 129,509,819 56,182,856	26.2 12.7 12.3	\$187,867,180 179,529,962 210,753,476 62,551,714 195,989,576 58,485,882	20.1 25.6 7.0 21.7	187,582,750 224,140,876 265,757,810 66,243,825 250,245,359 58,298,605	17.8 21.5 25.3 6.3 25.8 5.5	25.0 26.1 6.2	170,588,751 205,082,550 260,701,900 59,250,003 211,046,155 57,458,948	19,058,526 5,055,910 6,995,820 59,199,226		
			_	AVERAGE I	nvestment pe	R ACRE W	RKS WERE CAI	PABLE OF S	PIPPLYING WIT	H WATER		<u> </u>			
Total	Dollars 47.95	Dollars 69.04	Dollars 15.85	Percent xxx	Dollars 26.81	Percent	Dollars 854.20	Percent	Dollars 57.50	Percent	Percent 9.1	Dollars 34.36	Dollars 20.65		
Individual and partnership————————————————————————————————————	(3) (3) (3) (3) (3) (3)	300000000000000000000000000000000000000	<u> </u>	XX XII XII XIX XIX	16.71 21.78 54.99 80.82 77.06 41.61	100 200 200 200 200 200 200 200 200 200	523.54 22.81 45.49 28.85 99.75 44.75	200X	XXX XXX XXX XXX	XXX XXX XXX XXX XXX	XXX XXX XXX XXX	17.69 25.65 52.46 30.21 69.81 50.15	19.24 11.18 30.04 22.24		

¹Census of Agriculture. ²Areas shown under "Supplemental sources" are parts of areas shown under "Primary sources" and therefore are not added again into the totals (see text). ³Data not separated by type of enterprise. ⁴Includes Reclamation district office of Indian Affairs, State, City and/or sewage, and other. ⁵Revised.

YIELD OF PUMPED WELLS, 1910 TO 1940; AND AVERAGE PUMPING LIFT FROM PUMPED WELLS, 1940; BY STATES

Louisiana. See chart XIII for pumped wells)

PUMPRO WELLS														
	Total (nu	mber)				Yield	(gallons per s	inute)				Average		
	1920	1930	1940		Tota	1	Average per well							
1910	1920	1890	1940	1910	1920	1950	1940	1910	1920	1950	1940	(feet) 1940		
15,971	52,094	56,729	68,279	7,248,699	16,596,549	32,467,120	43,855,271	454	511	572	655	55		
470 507 10,724 121 24 939 606 10 66	999 1,089 25,401 527 53 710 812 22 54	1,398 1,190 46,757 654 121 772 1,589 49 557	1,858 1,554 48,568 2,878 509 1,858 1,504 102 2,412	765,921 268,829 4,119,575 58,564 2,826 73,563 1,108,256 5,263 5,365	1,042,590 1,470,147 10,608,476 210,094 17,749 266,797 1,607,657 11,085 24,701	1,852,352 1,641,448 24,266,167 237,903 34,601 323,500 1,958,811 18,653 428,058	2,508,557 1,812,647 28,297,969 1,929,798 225,164 863,665 1,526,615 35,885 2,053,184	1,850 876 584 445 118 78 1,829 526 51	1,044 1,550 418 599 335 376 1,980 504	1,511 1,579 519 564 286 419 1,410 581 797	1,850 1,162 585 671 729 527 1,015 552 851	62 64 57 53 29 38 45 24		
6 466 1 65 92 4 1,912 27 128	129 461 19 208 1 901 192 520 16	147 680 18 558 1 1,102 546 1,019	167 1,487 11 77 901 16 5,596 286 1,041 94	1,349 190,690 1,791 20,863 24 567,126 4,827 60,220 855	6,798 265,618 5,643 47,026 800 538,565 39,059 227,744 8,020	54,162 481,898 2,715 136,669 375 614,395 120,355 306,800 8,280	50,958 1,148,276 578 15,486 209,289 1,039 2,215,280 122,528 287,527 60,522	225 409 15 28 227 6 297 179 470 278	192 226 800 598 203 458 501	151 245 375 558 548 501 753	505 769 54 201 252 65 652 428 276 644	31 46 25 48 35 56 82 38 45 48		

TABLE 9.—LENGTH OF CANALS, 1902, 1920, 1930, AND 1940; CAPACITY OF CANALS AT MAIN HEADINGS, AND NUMBER AND YIELD OF PUMPED WELLS, 1920 TO 1940; AND AVERAGE PUMPING LIFT FROM WELLS, 1940; BY SPECIFIED DRAINAGE BASINS

(For the 17 western States and Arkansas and Louisiana)

				CANALS				PUMPED WELLS											
DRAINAGE BASIN		Length	(miles)			city at gs (sec.		Tota	1 (num	er)		Tield (g	allons per	minute)	,		Aver-		
17.	1902	1920	1950	1940	1920	1950	1940	1920	1950	1940		Total		Total Ave		Avera	ge per	well	ing lift
									<u> </u>		1920	1930	1940	1920	1950	1940	(feet) 1940		
Summary (19 States)	58,880	159,864	126,802	127,538.7	631,079	547,814	612,021	52,094	56,729	68,279	16,396,549	82,467,120	45,555,271	សា	572	655	55		
Red River (of the North) 1	6		1	25.9		2	565												
Wissouri River, summary Yellowstone River Platte River All other tributaries	17,302 3,980 6,769 6,553	39,599 8,833 14,961 15,805	30,612 8,015 12,618 9,979	51,151.1 8,162.6 13,422.2 9,546.5	32,064	29,559	148,255 52,055 72,454 43,766	585 6 313 66	1,071 4 956 111	4,760 28 4,277 455	171,464 1,005 143,904 26,555	613,550 555 560,450 52,545	6,615	445 168 460 402	575 159 586 472	765 256 784 601	55 44 55 46		
Mississippi River, exclusive of Missouri River, summary Arkansas River All other tributaries	5,050 5,050	8,266 7,691 575	5,518 5,275 243	4.838.6		49,701 46,577 3,124	49,858 48,217 1,641	2,085 1,854 731	2,216 1,545 875	4,428 2,529 1,899	1,876,840 934,452 942,388	2,104,516 999,556		900 690 1,269	950 744 1,265	789 592 1,051	62 45 77		
Gulf of Mexico streams other than Mississippi River and Rio Grande	1,357	4,886	5,792	4,589.8	20,951	18,606	18,860	1,615	2,563	4,158	2,072,580	2,495,111	5,210,788	1,265	1,055	772	62		
Ric Grands, summary Pecos River All other tributaries	3,255 853 2,582	9,732 2,062 7,650	9,381 1,175 8,206	8,702.9 998.1 7,704.8	40,424 5,619 34,805	58,609 5,920 54,689	45,851 7,164 56,697	505 287 216	751 542 589	1,712 858 854	286,148 174,938 111,205	498,631 262,546 256,085	736,158	569 610 515	682 768 607	754 858 650	48 49 46		
Colorado River, summary———————————————————————————————————	8,376 6,191 2,127 2,185	8,705	20,185 15,874 5,794 4,311	13,964.8	16,875	68,522 55,169 17,145 13,155	81,055 57,900 21,496 23,153	1,128 6 1 1,122	1,196 22 3 1,174	2,595 15 11 2,382	1,095,724 3,000 1,550 1,092,724	1,772,812 15,643 410 1,757,169	1,850	971 500 1,850 974	1,482 711 157 1,497	1,152 141 84 1,157	58 20 58 58		
Great Basin, summary Bonneville Lake Lahontan Lake 4	8,445 3,354 5,091	10,304	12,753 6,806 5,947			50,748 25,104 25,639	57,949 28,428 29,521	870 124 746	2,707 218 2,494	1,806. 805 1,001	273,094 30,620 242,474	1,321,596 75,907 1,247,469	653,078 129,711 523,367	514 247 325	498 547 500	500 425 523	76 59 88		
Columbia River, summary Shake River All other tributaries	10,575 6,865 8,710	52,799 20,071 12,728	26,919 16,904 10,015	16,397.2	95,846	115,083 85,164 29,919	121,457 86,012 35,445	752 130 622	1,665 229 1,454	1,972 418 1,554	277,555 40,957 256,598	464,026 70,235 595,790	256,972	369 515 380	279 507 275	549 615 277	59 24 45		
Klamath River	951	1,726	1,698	1,904.8	8,878	5,900	9,179	16	14	56	5,975	21,442	29,509	578	1,552	527	87		
Sacramento-San Joaquin Delta and tributary streams	4,221	19,428	15,314	15,202.8	79,142	64,374	72,755	14,657	31,744	52,418	6,584,882	16,750,369	20,042,295	436	527	618	45		
Pacific Ocean streams, exclu- sive of Culf of California streams and Columbia and Klamath Rivers and Sacra- mento-San Joaquin Delta and tributary streams	1 700		0.000	1 045 5	37.075	E 900	7 005	0 974	79 614	14,932	8,879,505	6,385,210	7,509,059	295	498	505	82		
Mitewater Draw and Vamori Wash (Gulf of California) 1	1,582	128	2,622	1		5,789	7,995	209	210	1	72,787	62,457		348	297	521	57		

¹Not shown graphically.

² Data for Census of 1930 shown in published Census reports under "Other tributaries of Colorado River" are allocated, 85 percent to the Upper Colorado River Drainage Basin and 15 percent to the Lower Colorado River Drainage Basin.

³ Includes Imperial Valley.

⁴ Includes unidentified independent streams.

TABLE 10. --NUMBER AND YIELD OF FLOWING WELLS, NUMBER AND CAPACITY OF PUMPS, AND AVERAGE CAPACITY OF PRIME MOVERS, 1910 TO 1940; AVERAGE LIFT OF PUMPS, 1920 TO 1940; BY STATES

(F.	or the 17 we		and Arkansa							nd XIV f	or pumpe	1)	_				
				PLONING	WELLS								PUMPS				
STATE		Total (m	mber)		Yield (gallons per minute)						Total (mumber)						
_	1910	1920	1950	1940	1910	192	1920 1930		194	٥	1910¹	1920	19	80	1940		
Summary (19 States)	5,071	4,606	4,811	4,641	,545,676	955	55,057 609,567		555,075		15,805	33,B	04 6	1,445	78,529		
Ari sona	214	310	310 215 268		9,953	14	,547	13,772	22,878		429	1,0	01	1,564	1,969		
California	2,561	1,415	449	456	477,543	287	,187				315 9,297	1,1 24,1	15	1,206 7,994	1,655 52,016		
Colorado	515 62 '3	476 142 6	621 886 220 575 1 24		41,989 7,200 30	15	20,159 59,644 15,155 50,106 500 78				206 58 698	48 28 28	52	540 465 512	2,818 675 1,259		
Louisians Wontans Nebrasks	15	41	807 502 40 44 19		22,185		,255 ,608	51,961 4,106	12,695		1,007 125 75	1,94 29		2,000 288 686	2,405 680 2,848		
Nevada New Maxico North Dakota	19 675	125 556	274 840				942	19,131 225,257	59,835 181,076		18 413 4	49	12	175 758 15	196 1,559 83		
Oklahoma Oregon South Dakota	51 42	65 4	59 13	75 19	5,055 14,582		100 968 750	6,535 4,825	 3 5	596 377	8 8 8 8 8	61	26	30 1,157 8	116 2,265 127		
Terras— Utah— Washington——— Wyoning——	125 1,138 55 2	135 1,256 60 7	61 1,663 42 6	100 1,216 50 56	57,019 42,794 18,926 250	62 96	364 371 925 46	56,020 104,670 27,290 2,205	59 83 21	,508 ,838 ,192 ,830	2,359 69 391 34	1,64 29 1,08	11 1	2,028 460 2,025 65	4,754 409 2,488 230		
				PUM	PS—Conti	inted					PRIME MOVERS						
STATE			Capacity (gallons per	lons per minute) Average 1:						(feet)	Average	capaci	ty (horse	power)		
	1910	1920	1950	1940	Average 1910 1920 1930 1944			1940	1920 1930		1940	1910	1920	1950	1940		
Summary (19 States)	19,855,864	58,275,005	57,244,859	75,802,998	1,225	1,075	932	965	41	51	51	23	25	22	23		
Arisona	851,873 436,402 5,276,298	1,048,050 1,654,097 16,775,692	2,125,295 1,775,788 55,240,589	2,015,697	1.385	1,047 1,476 695	1,558 1,472 698	1,520 1,255 753	44 50 41	46 68 53	60 61 55	87 59 14	50 56 18	42 57 18	52 47 19		
Colorado Idaho Kansas	296,957 278,569 126,276	299,726 1,397,681 297,975	437,250 2,113,513 393,526	2,719,905	4.803	689 8,024 1,035	810 4,545 1,261	803 4,029 978	23 29 50	25 32 26	32 26 35	39 122 2	21 198 35	22 86 22	18 67 22		
Louisiang Kontana Kebraska	5,064,173 281,199 5,866	4,968,686 453,231 73,686	5,914,799 523,494 536,752	1,309,014	2.250	2,560 1,516 1,365	2,957 2,247 844	2,686 1,925 888	52 20 24	37 22 29	32 21 32	57 28 2	69 41 19	48 46 18	37 45 20		
North Dakota	24,295 216,355 182,115	35,266 304,789 51,250	115,648 555,068 24,900	1,509,005	524	490 621 5,125	668 752 1,915	720 840 1,255	22 40 58	31 40 24	31 44 17	38 34 510	6 18 517	17 21 17	12 26 15		
Oklehoms Dregon South Dakots	4,541 118,514 5,289	7,668 600,045 25,520	8,855 1,022,215 4,027	\$9,280 1,510,958 103,050	518	295 977 933	295 884 503	511 667 811	59 28 21	33 27 27	36 27 20	2 14 8	8 24 20	9 19 12	9 13 17		

6,494,999 877,942 995,505 86,905

9,916,225 835,862 953,751 209,559

2,273 4,566 935 4,192

4,160 2,695 601 568

3,203 1,909 491 1,337

2,086 2,044 583 911

5,362,665 315,057 365,411 142,529

6,825,998 783,588 636,552 59,725

¹ Mumber of pumping plants.

TABLE 11.—NUMBER AND YIELD OF FLOWING WELLS; NUMBER, CAPACITY, AND AVERAGE LIFT OF PUMPS; AND AVERAGE CAPACITY OF PRIME MOVERS; 1920 TO 1940; BY SPECIFIED DRAINAGE BASINS

(For the 17 western States and Arkansas and Louisiana)

(for the	e 17 western	States and	Arkansas an	d Louisians	r)								
	FLOWING WELLS												
DRAINAGE BASIN	Tota	l (number)		Yield (gallons	per minu	te)		To	tal (nu	aber)	-	
	1920	1930	1940	1920	1950		1940	1:	920	1950		1940	
Summary (19 States)	4,606	4,811	4,641	955,057	5,057 609,567		555,07	5 2	55,804	61,	145	78,528	
Red River (of the North)	·										8	16	
Wissouri River, summary Tellowstone River Platte River All other tributaries	41 21 6 14	21 6 15	79 20 14 45	4,271 194 270 3,807	2	,218 ,265 ,955	9,91 2,49 1,26 6,16	4 0	689 120 507 262		68 944 267	5,994 244 4,553 1,217	
Wississippi River, exclusive of Missouri River, summary———————————————————————————————————	27 24 3	7 6 1	47 46 1	6,240 3,640 2,600		995 945 48	4,26 5,72 55	5 9	1,715 872 843		304 352 352	4,190 2,125 2,065	
Oulf of Mexico streams, other than Mississippi River and	127	856	576	57,009	52	,935	43,50		5,208	5,1		5,697	
Ric Grande, summary———————————————————————————————————	1,016 565 455	965 850 615	1,136 273 863	401,156 584,525 16,851	257	,671 ,257 ,434	240,50 188,25 52,05	6 5	709 809 400	1,0	- 1	2,353 911 1,442	
Colorado River, summary Uppor Colorado River 4 Green River Lower Colorado River 2	612 15 2 599	224 18 4 206	463 18 11 445	70,917 1,055 69,882	5	,805 ,099 510 ,704	48,58 1,09 78	4	1,128 85 25		22	2,640 180 67	
Great Basin, summary	1,610 846 764	2,175 85.5 1,840	1,698 1,515 585	128,522 91,066 37,456	155 46	,800 ,064 ,736	47,49 118,49 88,93 29,58	9	1,045 820 221 599	1,1 2,7 2,4	788 325	2,510 1,448 404 1,044	
Columbia River, summary Snake River All other tributaries	178 105 71	293 212 81	874 294 80	27,155 9,867 17,268	62 52	,451 ,165 ,288	65,57 42,56 25,01	9	1,745 478 1,267	8,4	154 304	4,459 971 5,468	
Mamath River	4	28	- 5	5 5		241	4		. 85		25	224	
Sacramento-San Joaquin Delta and tributary streams	181	72	47	51,785		,400	8,40		14,849	33,1		54,651	
and tributary streams————————————————————————————————————	10	159	212	187,484 505	25	427 430	20,21 76		8,649 209	12,6	21	16,552 144	
	PUMPS—Continued PRIME NO												
DRAINAGE BASIN		Capacit	y (gallons	per minute)			Averag	• lift	(feat)		Average capacity (horsepower)		
	<u> </u>	Total		T		1920 1		1050 1040		Γ	\neg		
	1920	1930	1940	1920	1950	1940	1920	1950	1940	1920	1930	1940	
Summary (19 States)	56,275,005	57,244,85	9 75,802,	998 1,078	952	965	41	51.	51.	25	22	25	
Red River (of the North)		20,40	0 26,	045	2,550	1,628		1.5	21		19	17	
Vissouri River, summary Yellowstone River Platte River	800,218 182,508 220,040	1,545,54 275,07 725,02	532, 9 5,815,	157 1,521 132 717	4,015	956 2,181 841	22 25 22	26 19 27	52 22 55	31 59 14	22 60 18	41 19	
All other tributaries Mississippi River, exclusive of Missouri River, summary	597,670 2,287,441	547,44 2,418,25	8 4,275,	350 1,505	1,540	1,140	(a) 45	(4) 54	29 57	50 48	32 45	85	
Arkansas River All other tributaries Oulf of Mexico streams, other than Mississippi River and Rio Grande	1,319,743	1,144,00	2,271,	164 1,526	1,558	1,100	(4)	(4)	45 72	45 51	56 52	26 44	
Rio Grande, summary———————————————————————————————————	9,202,748 2,716,936 221,289 2,495,647	8,929,95 5,881,58 336,33 3,545,25	5,486, 4 866,	952 5,852 408 716	5,552 853	2,044 2,552 951 5,204	57 42 51 (4)	48 41 28 (*)	50 42 47 58	59 51 18 78	54 21 78	55	
Colorado River, summary Upper Colorado River Grean River	1,195,680 169,008 44,920	2,367,10 546,74 16,77	1 5,616, 6 250,	220 1,080	1,940	1,570 1,770 1,204	42 (4)	44 (4) 20	54 24	52 71 56	51 98 51	44 48 27	
Lower Colorado River 1 2. Great Basin, summary. Bonneville Lake.	1,026,672 1,035,964 784,153	1,820,35 3,205,81 909,98	5 3,586, 4 1,514,	099 984 746 1,261	1,658	1,549 1,046 2,175	(4) 41	(4) 87 (4)	56 71 58	29 27 60	47 25 59	48 27 86	
Lahontan Lake 5	299,811 2,522,910 1,758,084	2,295,85 5,595,85 2,331,00	5 636, 4 4,609,	966 501 862 1,446	982	1,058 5,108	(4) (4) 50 29	(4) 47 29	84 59 25	17 40 109	21 24 55	24 24	
All other tributaries	764,826	1,262,85	1 1,592,	529 604	480	459 2,261	(4) 25	(4) 55	45 26	20	15		
Sacramento-San Joaquin Delta and tributary streams	11,584,871	23,856,24	1	1 -	1 -	855	52	42	44	15	14	16	
and Columbia and Klamath Rivers, Sacramento-San Joaquin Delta, and tributary streams————————————————————————————————————	4,732,586 75,967	7,059,65 59,50				521 440	58 44	79 48	77 57	23 12	25 9	ł	

¹Data for Irrigation Census of 1930, included in published Agriculture Census Reports, as "Other Tributaries of Colorado River," are alloqated 85 percent to the Upper Colorado River Drainage Basin.

**Elncludes Imperial Valley.

**Includes unidentified independent streams.

**Not available.

TABLE 12.—PIPE LINES—TOTAL LENGTHS, 1910 TO 1940; AND LENGTHS BY MATERIALS OF CONSTRUCTION AND SIZE, 1930 AND 1940; BY STATES (For the 17 western States and Arkansas and Louisiana)

	LENGTH OF PIPE LINES																				
		Total.	(miles)		By materials of construction and size																
STATE		1920							1980												
	1910¹				Conc	rete (mile	18)	Ме	tal (miles	3)	Wood	i-stave (mi	les)								
	1910	1520	1950	1940	Total.	1 to 12 inches (diame- ter)	Over 12 inches (diame- ter)	Total	1 to 12 inches (diame- ter)	Over 12 inches (diame- ter)	Total	1 to 12 inches (diame- ter)	Over 12 inches (diame- ter)								
Summary (19 States)	3,806.9	8,878.3	² 17,363.1	28,584.9	310,524.5	7,519.1	2,681.9	³ 4,857.7	4,019.7	855.5	31,005.8	595.4	406.								
risona	2,619.4	104.5 0.4 6,885.9	2189.5 1.0 214,685.0	344.5 13.0 22,690.2	71.0	14.0	57.0	58.1 1.0	52.5 0.9	5.6 0.1	41.8	21.5	20,								
oloradodahodaha	195.6 105.9	217.5	131.9 265.4	245.1 299.9	³ 9,585.4 68.0 80.0	7,199.4 55.7 56.2	2,269.5 12.3 43.8	34,094.2 36.3 35.1	3,355.4 21.0 29.1	758.5 15.5 6.0	227.5 17.5 3132.6	158,9 5.4 55.9	88. 12.								
ouisiana	4.1 29.9	2.8 50.1 48.0	16.1 15.1 64.9	24.1 63.6 148.1	12.5	0,2		16.1 14.6	16.1	4.5	0.5	0.5	74								
eyada.	1.5 7.2	5.8	27.5 290.6	125.1	6.6		12.1 6.6	27.6 3.9	19.6 2.3	8.0 1.6	15.6 7.5	1.2	11 6								
ew Mexico	40.5 0.3	60.8 0.3	15.2	\$6.5 5.8	11.6	9.5	2.1	58.2 10.0 1.2	54.2 9.1 1.2	4.0	10.7	10.2	0								
klahoma regon outh Dakota	107.5 6.7	4.3 159.6 7.2	0.7 ² 225.5 8.9	24.4 665.2 17.3	61.5 1.1	30,6	30.9 1.1	0.7 80.7 3.6	0.7 72.9 2.9	7.8 0.7	370.4 1,8	41.0	27 1								
Ah. Ashington- coming	32.6 117.8 500.5 12.8	157.1 154.7 790.0 17.9	² 519.0 159.0 ² 1,156.9 14.1	925.1 172.5 2,612.7 70.3	³ 149.8 24.0 249.7 2.8	24,0 9.0 159.7 0.1	118.8 15.0 110.0 2.7	58.6 49.2 500.6 8.0	53.9 42.9 290.4 6.5	4.7 6.5 10.2 1.7	56.0 30.5 587.1 0.8	25.2 26.4 260.6	30 3 126								

LENGTH OF PIPE LINES—Continue	эd	
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					By	material	of cons	truction a	and size-	-Continu	ed.					
STATE	198	0—Conti	nued						194							
	Clay and other (miles)			Cor	Concrete (miles)			Wetal (miles)			Wood-stave (miles)			Clay and other (miles)		
	Total	l to 12 inches (diame- ter)	Over 12 inches (diame- ter)	Total	1 to 12 inches (diame- ter)	Over 12 inches (diame- ter)	Total	l to 12 inches (diame- ter)	Over 12 inches (diame- ter)	Total	1 to 12 inches (diame- ter)	Over 12 inches (disme- ter)	Total	1 to 12 inches (diame- ter)	Over 12 inches (diame- ter)	
Summary (19 States)	³ 522.8	255.4	60,4	18,692.2	14,126.6	4,565.6	8,027.5	7,085.1	944.4	1,236.5	808.5	428.0	628.7	456.3	172.4	
Arigona Arkansas Galifornia	0.4	0,4		265.8	95.4	170.4	65.7 3.4	48.1	17.6	8.0	1.3	1.7	9.8	2.5	7.5	
	110.7	78.7	32.0	16,745.0	13,183.5	3,561.5	5,414.1	3.2 4,787.1	0.2 627.0	249.8	160.1	89.7	9.6	9.6 215.5	65.B	
Colorado Idaho Kansas	10.1	8.9 11.0	1.2	85.7 96.0 1.1	57.6 45.8 0.6	29.1 52.2 0.5	93.5 58.5 21.7	51.9 40.2 20.8	41.6 18.3 0.9	25.7 121.0	9.1 63.6	14.6 57.4	41.2 24.4	14.6 17.3	26.6 7.1 0.8	
Louisiana Montana Nebraska	9.2 9.5	0.7	8.5 9.5	15.4 14.5 21.2	6.1 1.8 5.1	9.8 12.7 18.1	40.7 78.7 83.2	20.5 56.8 65.8	20.2 21.9 17.4	5.9 26.1 12.5	5.5 10.8 5.1	0.4 15.3 7.4	1.5 1.6 28.8 9.2	0.5 1.1 0.9 2.7	0.5 27.9 6.5	
Nerwida New Mexico North Dakota	1.0	8.3 0.8	0.2	8.7 8.7 0.5	1.4	4.4 7.5 0.5	77.7 21.4 3.4	69.1 15.1 3.3	8.5 8.5	12.1	12.0	0.1	6.2 5.0 0.1	4.8 5.0 0.1	1.4	
Oklahoma Oregon South Dakota Texas	0.9	0.9	0,1	0.6 97.8 5.7	0.6 61.8 2.0	36.0 3.7	23.6 489.2 11.0	25.6 458.5 10.0	50.7	0.1 67.7 0,5	0.1 56.3 0.5	31.4	0.1 10.5 0.1	0,1	4.7 0,1	
Vashington———————————————————————————————————	1.6 ³ 55.5 ³ 99.6 2.5	1.6 54.2 67.6	0.5 6.0 2.5	655.4 40.6 614.9 13.8	155.6 17.8 489.5 1.7	499.8 22.8 125.4 12.1	204.0 60.7 1,259.0 38.0	189.9 43.5 1,171.5 26.2	14.1 17.2 67.5 11.8	22.2 21.2 654.3 13.0	6.0 13.5 474.0 9.5	16.2 7.9 180.3 3.5	41.5 50.0 104.5 5.5	38.4 44.9 92.1 2.6	3.1 5.1 12.4 2.9	

Data for 1910 represent lengths of pipe reported in 1920 by enterprises which were installed prior to 1909 and may contain some pipe extensions installed by these enterprises between 1909 and 1919.

That for 1950 contain a total of 854.3 miles of pipe not segregated by material, as follows: Arizona, 18.0; California, 665.2; Idaho, 4.6; Nevada, 1.8; Oregon, 11.8; Taxas, 53.0; and Washington, 99.9.

Data for 1950 contain pipe not segregated into size groups, as follows: Concrete—California, 116.5 miles, and Texas, 7.0 miles; metal, California, 2.5 miles; woodstave—Idaho, 2.0 miles, and Oregon, 2.0 miles; and clay and other—Utah, 1.0 miles, and Washington, 26.0 miles.