

CENSUS OF IRRIGATION: 1940

TABLE 13.—LENGTH OF CANALS WITH CAPACITY AT MAIN HEADING, LENGTH OF PIPE LINES, AND NUMBER OF FLOWING WELLS, WITH CAPACITY, 1940, 1930, AND 1920; AND PIPE LINES BY KIND OF MATERIAL, 1940; BY STATES AND BY PRINCIPAL DRAINAGE BASINS

(For the 17 western States and Arkansas and Louisiana)

| ITEM | CANALS | | | | | | PIPE LINES ¹ | | | | | | | | WELLS, FLOWING | | | | | |
|---|------------------------------|---------|---------|-----------------------|----------|----------|-------------------------|----------|---------|-----------------|---------|------------|----------------|-------|----------------|-------|---------|----------|---------|--|
| | Length | | | Capacity ² | | | Length | | | Materials, 1940 | | | | | Total | | | Capacity | | |
| | 1940 | 1930 | 1920 | 1940 | 1930 | 1920 | 1940 | 1930 | 1920 | Con-crete | Metal | Wood-stave | Clay and other | 1940 | 1930 | 1920 | 1940 | 1930 | 1920 | |
| | Miles | Miles | Miles | Sec.-ft. | Sec.-ft. | Sec.-ft. | Miles | Miles | Miles | Miles | Miles | Miles | Miles | No. | No. | No. | G.p.m. | G.p.m. | G.p.m. | |
| Total (19 States) | 127,533.7 | 128,802 | 159,964 | 612,021 | 547,314 | 631,079 | 28,584.9 | 17,363.1 | 8,878.3 | 18,692.2 | 6,027.5 | 1,236.5 | 628.7 | 4,641 | 4,811 | 4,608 | 555,075 | 609,567 | 955,057 | |
| STATE | BY STATES | | | | | | | | | | | | | | | | | | | |
| Arizona | 4,178.2 | 3,974 | 3,368 | 13,258 | 13,697 | 11,707 | 344.3 | 189.3 | 104.5 | 265.8 | 65.7 | 3.0 | 9.8 | 268 | 215 | 310 | 22,878 | 13,772 | 14,547 | |
| Arkansas | 77.9 | 51 | 86 | 270 | 1,845 | 1,205 | 13.0 | 1.0 | 0.4 | --- | 3.4 | --- | 9.6 | --- | --- | --- | --- | --- | --- | |
| California | 19,799.1 | 18,602 | 27,384 | 91,776 | 84,944 | 115,237 | 22,690.2 | 14,683.0 | 6,885.9 | 18,745.0 | 5,414.1 | 249.8 | 281.3 | 436 | 449 | 1,415 | 34,767 | 65,768 | 287,187 | |
| Colorado | 19,864.0 | 21,381 | 27,593 | 139,780 | 123,652 | 119,558 | 245.1 | 131.9 | 217.3 | 86.7 | 93.5 | 23.7 | 41.2 | 866 | 621 | 476 | 54,859 | 39,644 | 20,139 | |
| Idaho | 13,602.1 | 14,344 | 17,298 | 71,510 | 76,763 | 86,273 | 299.9 | 263.4 | 180.6 | 96.0 | 58.5 | 121.0 | 24.4 | 375 | 220 | 142 | 40,165 | 30,108 | 15,133 | |
| Kansas | 292.5 | 285 | 418 | 3,347 | 2,079 | 1,667 | 24.1 | 16.1 | 2.8 | 1.1 | 21.7 | --- | 1.3 | 24 | 1 | 6 | 1,455 | 75 | 500 | |
| Louisiana | 2,421.0 | 2,226 | 3,243 | 10,335 | 11,386 | 11,889 | 63.6 | 15.1 | 50.1 | 15.4 | 40.7 | 5.9 | 1.6 | 502 | 807 | 9 | 12,695 | 31,961 | 6,255 | |
| Montana | 15,702.5 | 15,957 | 22,496 | 66,745 | 53,253 | 94,429 | 148.1 | 64.9 | 48.0 | 14.5 | 78.7 | 26.1 | 28.8 | 44 | 40 | 41 | 9,834 | 4,106 | 4,608 | |
| Nebraska | 3,331.3 | 3,465 | 3,325 | 14,256 | 13,108 | 11,665 | 126.1 | 27.5 | 3.8 | 21.2 | 83.2 | 12.5 | 9.2 | 19 | --- | --- | 370 | --- | --- | |
| Nevada | 2,897.2 | 4,155 | 4,368 | 22,930 | 16,986 | 10,554 | 104.7 | 90.6 | 33.0 | 8.7 | 77.7 | 12.1 | 6.2 | 322 | 274 | 123 | 39,855 | 19,131 | 21,942 | |
| New Mexico | 4,647.9 | 4,466 | 5,932 | 16,821 | 17,479 | 23,432 | 36.5 | 15.2 | 60.8 | 8.7 | 21.4 | 3.4 | 3.0 | 268 | 340 | 556 | 181,076 | 223,257 | 376,222 | |
| North Dakota | 159.2 | 87 | 151 | 616 | 1,072 | 836 | 3.8 | 1.2 | 0.3 | 0.3 | 5.4 | --- | 0.1 | --- | --- | --- | --- | --- | --- | |
| Oklahoma | 42.2 | 24 | 57 | 277 | 77 | 344 | 24.4 | 0.7 | 4.3 | 0.6 | 23.6 | 0.1 | 0.1 | --- | --- | 1 | --- | --- | 100 | |
| Oregon | 8,518.0 | 8,177 | 9,071 | 37,290 | 25,906 | 28,897 | 665.2 | 225.3 | 159.6 | 97.8 | 489.2 | 67.7 | 10.5 | 78 | 59 | 65 | 3,396 | 6,535 | 11,968 | |
| South Dakota | 1,049.3 | 1,082 | 1,258 | 1,948 | 1,995 | 5,427 | 17.3 | 8.9 | 7.2 | 5.7 | 11.0 | 0.5 | 0.1 | 19 | 13 | 4 | 5,377 | 4,825 | 2,750 | |
| Texas | 5,936.1 | 4,879 | 4,473 | 24,813 | 21,626 | 23,261 | 923.1 | 319.0 | 157.1 | 655.4 | 204.0 | 22.2 | 41.5 | 100 | 61 | 135 | 39,508 | 36,020 | 62,364 | |
| Utah | 9,004.5 | 9,237 | 11,677 | 34,579 | 30,648 | 29,447 | 172.5 | 159.0 | 154.7 | 40.6 | 80.7 | 21.2 | 30.0 | 1,216 | 1,663 | 1,256 | 85,858 | 104,670 | 96,371 | |
| Washington | 4,248.6 | 3,635 | 5,615 | 15,104 | 14,987 | 16,242 | 2,612.7 | 1,136.9 | 790.0 | 614.9 | 1,239.0 | 654.3 | 104.5 | 50 | 42 | 60 | 21,192 | 27,290 | 14,925 | |
| Wyoming | 11,762.1 | 10,775 | 12,051 | 46,366 | 35,811 | 39,009 | 70.3 | 14.1 | 17.9 | 13.8 | 38.0 | 13.0 | 5.5 | 36 | 6 | 7 | 3,330 | 2,205 | 46 | |
| DRAINAGE BASIN | BY PRINCIPAL DRAINAGE BASINS | | | | | | | | | | | | | | | | | | | |
| Red River (of the North) | 23.9 | 1 | --- | 365 | 2 | --- | 1.9 | 1.2 | --- | 0.1 | 1.8 | --- | --- | --- | --- | --- | --- | --- | --- | |
| Missouri River | 31,131.1 | 30,612 | 39,599 | 146,255 | 130,173 | 167,891 | 400.6 | 101.1 | 89.5 | 71.8 | 227.6 | 37.8 | 63.4 | 79 | 21 | 41 | 9,915 | 7,218 | 4,271 | |
| Mississippi River, exclusive of Missouri River | 4,858.6 | 5,518 | 8,266 | 49,858 | 49,701 | 41,974 | 174.5 | 114.9 | 148.3 | 61.9 | 78.8 | 14.5 | 19.3 | 47 | 7 | 27 | 4,263 | 995 | 6,240 | |
| Gulf of Mexico streams, other than Mississippi River and Rio Grande | 4,569.8 | 3,792 | 4,886 | 18,860 | 18,608 | 20,931 | 221.0 | 46.5 | 158.9 | 30.5 | 173.9 | 7.5 | 9.1 | 576 | 856 | 127 | 45,504 | 52,933 | 57,009 | |
| Rio Grande | 8,702.9 | 9,381 | 9,732 | 43,851 | 38,809 | 40,424 | 774.3 | 287.9 | 90.3 | 648.4 | 68.5 | 21.4 | 36.0 | 1,136 | 965 | 1,016 | 240,308 | 276,671 | 401,156 | |
| Colorado River | 20,894.1 | 20,185 | 22,586 | 81,033 | 68,322 | 66,306 | 919.0 | 216.6 | 246.0 | 684.8 | 181.2 | 16.3 | 36.7 | 463 | 224 | 612 | 48,584 | 16,803 | 70,917 | |
| Whitewater Draw and Vamori Wash ³ | 26.0 | 7 | 128 | 484 | 10 | 553 | 4.9 | 4.1 | 5.1 | --- | 4.9 | --- | --- | 6 | 11 | 10 | 765 | 430 | 503 | |
| Great Basin | 10,757.6 | 12,733 | 17,665 | 57,949 | 50,743 | 57,409 | 984.7 | 1,112.3 | 723.0 | 706.1 | 186.5 | 35.8 | 56.3 | 1,698 | 2,175 | 1,610 | 118,499 | 153,800 | 128,522 | |
| Columbia River | 27,535.0 | 26,919 | 32,799 | 121,457 | 115,083 | 134,536 | 3,181.4 | 1,616.2 | 1,125.2 | 794.9 | 1,427.7 | 821.7 | 137.1 | 374 | 293 | 176 | 65,579 | 62,451 | 27,135 | |
| Klamath River | 1,904.3 | 1,698 | 1,726 | 9,179 | 5,900 | 8,878 | 52.8 | 21.1 | 22.1 | 4.6 | 43.8 | 3.4 | 1.0 | 3 | 28 | 4 | 42 | 241 | 35 | |
| Sacramento-San Joaquin Delta and tributary streams | 15,202.8 | 13,314 | 19,428 | 72,735 | 64,374 | 79,142 | 7,437.1 | 4,819.4 | 1,757.8 | 6,487.8 | 766.6 | 131.0 | 51.7 | 47 | 72 | 181 | 5,403 | 14,400 | 51,785 | |
| Pacific Ocean streams, excl. of Gulf of California streams, Columbia and Klamath Rivers, and Sacramento-San Joaquin Delta and tributary streams | 1,947.6 | 2,622 | 3,049 | 7,995 | 5,789 | 13,035 | 14,432.7 | 9,021.8 | 4,512.1 | 9,201.3 | 4,868.2 | 147.1 | 218.1 | 212 | 159 | 802 | 20,211 | 23,427 | 187,484 | |

¹ Includes siphons and farm pipe lines reported.

² Total capacity (not necessarily capacities of canals) of heading structures (including pumping plants) for diverting water from natural surface sources.

³ Data for Censuses of 1930 and 1920 are for Whitewater Draw and unidentified tributaries, and do not include the independent basin, Vamori Wash.