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ESTIMATED AGRICULTURAL GROUND-WATER PUMPAGE IN PARTS OF
FRESNO, KINGS, AND MADERA COUNTIES, SAN JOAQUIN VALLEY, CALIFORNIA,


CONTENTS


The area of this report is on the west side of the San Joaquin Valley in parts of Fresno, Kings, and Madera Counties, and has approximately the boundaries of the Westlands Water District. The District receives surface water from the San Luis Service Area of the U.S. Bureau of Reclamation.

The method of estimating pumpage was based on electric-power consumption at the agricultural wells. From 1974 through 1976, virtually all ground water was pumped by electric-motor driven pumps. During drought conditions in 1977, however, many reactivated and new wells supplied water through pumps driven by internal-combustion engines. Pumpage from those wells was prorated from data associated with nearby electrically operated wells.

This report was prepared by the U.S. Geological Survey in cooperation with the U.S. Bureau of Reclamation. Data used to assemble this report were obtained through the cooperation of the Pacific Gas and Electric Co., U.S. Bureau of Reclamation, and Westlands Water District.


FIGURE 1.--Study area.

| Location | Acre-feet ${ }^{1}$, rounded to three <br> significant figures |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | 1974 | 1975 | 1976 | 1977 |

MOUNT DIABLO BASE LINE AND MERIDIAN
T. 13 S., R. 12 E.

13 E.
14 E .
T. 14 S., R. 12 E.

13 E.
14 E .
15 E .
o

0

| 0 | 0 | 1260 |
| ---: | ---: | ---: |
| 1560 | 2850 | 6700 |
| 0 | 0 | 2190 |

968
0

| 78 | 6200 |
| ---: | ---: |
| 580 | 16500 |
| 4440 | 8810 |
| 0 | 1540 |

T. 15 S., R. 12 E.

13 E .
14 E.
1120
8704090
1380

15 E .
55
16 E .
292
52

444
6670
11300
99
43
7990
T. 16 S., R.

14 E.
15 E.
16 E.
17 E.

| 3970 | 3710 | 3360 | 10900 |
| ---: | ---: | ---: | ---: |
| 2360 | 2760 | 2100 | 21500 |
| 2310 | 2140 | 2450 | 15700 |
| 0 | 0 | 0 | 3020 |

T. 17 S., R. 14 E .

15 E .
688

| 475 | 1200 | 3390 |
| ---: | ---: | ---: |
| 7760 | 6280 | 36300 |
| 2390 | 2950 | 15100 |
| 7230 | 7260 | 25200 |
| 586 | 416 | 9030 |

T. 18 S., R. 15 E.

16 E.
17 E .
18 E .
19 E .
8120
2500
4880
621
17 E .
586
416
9030

16 E.
17 E.
18 E.
19 E.
0
2980
9240
4660
0

| 0 | 887 | 2450 |
| ---: | ---: | ---: |
| 3570 | 2900 | 14100 |
| 8430 | 9610 | 29700 |
| 5140 | 3750 | 27000 |
| 0 | 0 | 789 |

T. 19 S., R. 16 E.

8170

| 6050 | 5080 | 10700 |
| ---: | ---: | ---: |
| 4030 | 5540 | 23100 |
| 1670 | 950 | 5490 |
| 1100 | 524 | 14200 |

T. 20 S., R. 16 E.
$\begin{array}{rrrrr}17 \mathrm{E} . & 10600 & 7580 & 6960 & 33500 \\ 18 \mathrm{E} . & 4600 & 3450 & 4210 & 24100 \\ 19 \mathrm{E} . & 1590 & 1080 & 923 & 23400\end{array}$
T. 21 S., R. 17 E. 3800491050609640
$\begin{array}{lrrrr}18 \text { E. } & 4870 & 5010 & 5780 & 24900 \\ 19 \text { E } & 0 & 0 & 0 & 3370\end{array}$
19 E. 0 0 $\quad 0 \quad 3370$
T. 22 S., R. 18 E.

1990
2120
2770
7860

[^0]
[^0]:    ${ }^{1}$ To convert acre-feet to cubic meters, multiply by 1,233 .

