

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Tables to Accompany Open-File Report 86-492

A SUMMARY OF MUNICIPAL PUMPAGE FOR THE FRESNO AREA,
CALIFORNIA, 1931-80

By

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Prepared in cooperation with the
COUNTY OF FRESNO

6417-10

Sacramento, California
1986

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)

Map No.	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
1	178,558	313,515	331,904	190,920	87,909	123,236	116,730	92,012	47,974	50,646
1A	.	.	.	.	.	.	.	.	.	.
2	309,180	352,138	344,574	425,387	263,295	353,898	319,746	245,416	227,441	262,792
2A	.	.	.	.	.	.	.	.	.	.
3	501,557	568,404	607,321	502,387	631,031	605,056	683,651	679,997	644,801	596,219
3A	.	.	.	.	.	.	.	.	.	.
4	24,931	6,039	.	.	32,006	66,016	35,670	36,344	5,582	229,219
4A	.	.	.	.	.	.	.	.	.	.
5	110,960	80,558	38,339	67,977	69,511	63,132	52,343	49,392	12,797	165,555
5A	.	.	.	.	.	.	.	.	.	.
6	104,653	99,173	93,717	160,625	165,251	207,464	268,838	187,918	135,958	154,766
6A	.	.	.	.	.	.	.	.	.	.
7	184,882	87,410	158,920	228,683	3,415,700	478,476	370,197	333,099	249,717	283,161
7A	.	.	.	.	.	.	.	.	.	.
8	362,202	310,696	346,652	383,815	352,834	239,719	241,679	231,639	203,899	421,212
8A	.	.	.	.	.	.	.	.	.	.
9	326,305	309,773	228,945	204,220	130,403	197,032	278,510	277,976	282,697	260,148
9A	.	.	.	.	.	.	.	.	.	.
10	389,732	393,426	481,917	511,558	402,779	377,017	476,155	521,932	581,565	598,766
10A	.	.	.	.	.	.	.	.	.	.
11	221,831	213,897	199,780	223,653	161,552	110,030	143,872	125,552	123,184	140,817
11A	.	.	.	.	.	.	.	.	.	.
12	708,781	700,307	632,227	543,615	642,790	592,568	594,653	602,403	573,602	476,333
12A	.	.	.	.	.	.	.	.	.	.
13	263,070	282,006	304,738	399,725	477,191	631,824	748,968	850,554	861,774	945,450
13A	.	.	.	.	.	.	.	.	.	.
14	557,887	549,738	559,795	553,492	524,834	644,335	869,751	878,649	850,515	792,636
14A	.	.	.	.	.	.	.	.	.	.
15	103,052	177,035	149,372	132,447	178,423	298,932	283,054	217,388	214,512	248,654
15A	.	.	.	.	.	.	.	.	.	.
16	104,162	100,776	188,608	225,770	197,605	130,724	143,160	141,419	156,801	174,043
16A	.	.	.	.	.	.	.	.	.	.
17	725,314	725,892	669,486	700,044	613,152	578,434	583,228	403,272	435,342	487,622
18	42,077	96,579	80,511	224,706	224,970	248,176	220,490	275,025	334,111	429,558
18A	.	.	.	.	.	.	.	.	.	.
19	167,045	211,603	278,387	338,394	261,830	346,491	268,603	260,488	263,873	404,916
19A	.	.	.	.	.	.	.	.	.	.
20	298,436	326,809	233,631	234,440	121,169	156,007	232,126	162,614	168,860	237,861
21	131,310	51,299	115,996	280,826	19,880	31,221	15,837	13,844	100,762	846,30
21A	.	.	.	.	.	.	.	.	.	.
22	73,346	18,293	174,313	93,813	117,765	132,862	108,985	96,584	215,695	196,458
22A	.	.	.	.	.	.	.	.	.	.
23	115,002	133,998	122,603	209,100	127,745	287,683	291,472	332,031	361,931	334,520
23A	.	.	.	.	.	.	.	.	.	.
24	185,201	70,514	103,351	181,837	111,350	158,808	224,959	225,834	262,021	230,911
24A	.	.	.	.	.	.	.	.	.	.
25	363,423	283,624	330,924	259,178	277,885	339,275	363,612	313,833	498,067	349,751
25A	.	.	.	.	.	.	.	.	.	.
26	48,051	61,663	47,271	161,678	128,035	174,668	38,818	79,672	152,418	86,661
26A	.	60	.	.	.	.	.	.	.	.
27	45,497	66,775	48,451	57,388	77,893	41,831	83,113	27,450	75,974	56,238
27A	.	.	.	.	.	.	.	.	.	.
28	112,428	62,474	65,141	76,150	70,893	98,690	78,893	76,232	93,145	89,930
28A	.	59	.	.	.	.	.	.	.	.
29	278,447	245,457	221,578	257,870	202,017	147,949	109,903	139,061	175,961	164,297
30	652,954	601,853	547,202	525,036	480,985	492,744	452,902	487,052	553,496	590,239
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TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
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Total	7,690,274	7,501,843	7,705,654	8,354,734	7,568,683	8,354,298	8,699,918	8,364,682	8,864,475	9,544,009

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
1	92,788	96,597	145,939	149,710	154,070	155,196	155,089	88,613	156,493	192,986
1A	.	.	.	.	.	.	.	.	.	.
2	279,373	184,399	244,323	263,522	268,277	282,277	259,149	205,057	232,000	227,774
2A	.	.	.	.	.	.	.	.	.	.
3	502,725	386,293	656,625	636,546	665,134	638,225	537,571	505,429	617,998	562,749
3A	.	.	.	.	.	.	.	.	.	.
4	157,217	81,475	250,647	244,666	139,882	60,221	.	.	.	.
4A	.	.	.	.	.	.	.	.	.	.
5	365,443	318,337	506,893	521,858	244,670	107,531	.	.	.	44,303
5A	.	.	.	.	.	.	.	.	.	.
6	96,008	110,119	138,481	147,314	149,972	158,299	149,220	32,423	183,602	173,419
6A	.	.	.	.	.	.	.	.	.	.
7	235,787	333,186	386,429	400,380	331,518	389,279	415,384	364,517	381,767	375,077
7A	.	.	.	.	.	.	.	.	.	.
8	302,935	322,416	491,894	393,207	347,002	411,496	374,954	362,423	377,880	399,702
8A	.	.	.	.	.	.	.	.	.	.
9	256,206	205,628	291,614	340,561	330,033	363,961	329,173	315,057	277,851	272,304
9A	.	.	.	.	.	.	.	.	.	.
10	478,991	535,971	646,196	603,854	516,477	753,896	777,826	746,517	803,500	694,170
10A	.	.	.	.	.	.	.	.	.	.
11	103,476	99,028	99,076	99,502	283,735	566,378	761,046	660,871	750,228	657,628
11A	.	.	.	.	.	.	.	.	.	.
12	615,885	654,826	559,127	626,116	264,586	111,269	.	104,254	.	22,063
12A	.	.	.	.	.	.	.	.	.	.
13	903,402	910,152	903,700	885,600	867,420	853,868	823,992	743,569	787,897	767,104
13A	.	.	.	.	.	.	.	.	.	.
14	946,478	1,009,591	980,042	786,165	921,065	741,705	889,473	867,042	849,111	787,428
14A	.	.	.	.	.	.	.	.	.	.
15	195,077	161,224	282,168	231,584	670,484	617,139	610,241	518,467	528,351	673,248
15A	.	.	.	.	.	.	.	.	.	.
16	199,485	171,101	211,129	225,549	228,916	300,856	211,099	228,547	222,976	204,269
16A	.	.	.	.	.	.	.	.	.	.
17	403,873	473,120	460,330	598,248	484,704	475,081	412,178	365,913	281,732	398,869
18	351,521	369,605	434,491	385,205	361,030	356,205	316,736	171,768	236,445	234,148
18A	.	.	.	.	.	.	.	.	.	.
19	207,473	291,815	238,428	158,294	117,423	104,871	123,349	61,219	104,841	106,470
19A	.	.	.	.	.	.	.	.	.	.
20	135,682	149,847	228,522	205,593	167,328	225,219	184,962	150,555	182,465	306,200
21	31,093	55,661	80,165	84,218	114,027	118,688	128,140	96,201	104,245	127,341
21A	.	.	.	.	.	.	.	.	.	.
22	62,661	118,768	180,595	102,195	126,353	112,360	121,856	110,327	182,009	209,630
22A	.	.	.	.	.	.	.	.	.	.
23	354,073	404,404	469,066	486,357	433,135	370,302	382,056	293,396	198,376	167,622
23A	.	.	.	.	.	.	.	.	.	.
24	155,642	153,744	193,368	185,106	180,450	202,406	173,250	85,842	164,285	183,696
24A	.	.	.	.	.	.	.	.	.	.
25	379,107	351,366	356,762	353,693	200,503	219,753	282,652	107,549	230,625	231,617
25A	.	.	.	.	.	.	.	.	.	.
26	101,784	199,883	151,153	138,680	138,959	201,937	169,642	111,654	183,950	171,995
26A	.	.	.	.	.	.	.	.	.	.
27	104,367	108,923	161,362	177,139	151,399	157,770	190,431	141,275	96,041	93,567
27A	.	.	.	.	.	.	.	.	.	.
28	153,055	137,884	132,186	164,322	133,332	157,849	176,173	102,495	153,490	126,659
28A	.	.	.	.	.	.	.	.	.	.
29	186,115	133,195	144,719	157,936	150,056	165,087	162,388	186,723	178,579	202,605
30	535,666	477,647	441,384	459,048	344,142	404,214	375,332	370,645	311,582	336,810
30A	.	.	.	.	.	.	.	.	.	.
31	.	96,520	132,569	575,831	282,214	335,664	309,282	280,364	297,525	269,685
32	.	135,886	.	.	283,478	396,511	461,036	517,481	623,156	559,733
33	.	223,459	.	.	320,177	332,934	568,073	453,088	462,372	356,272
33A	.	.	.	.	.	.	.	.	.	.
34	.	.	.	.	254,659	283,554	386,118	297,486	333,722	382,911

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
35	288,328	516,028	609,107	628,322	719,785	523,759
36	91,136	370,011	325,036	305,037	433,456
37	66,300	441,780	480,484	475,078
38	232,117	355,952	375,805
38A
39	212,364	233,546
39A
40	75,974	242,424
40A
41	335,949
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Total	8,893,388	9,462,070	10,599,383	10,787,999	10,914,938	11,739,165	12,263,289	11,374,022	12,644,690	13,140,071

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
1	174,008	166,511	134,200	115,296	109,649	83,107	86,787	158,055	.	38,199
1A	.	.	.	.	504,633	694,746	614,955	293,231	343,221	285,832
2	222,060	211,395	253,459	184,630	194,967	119,672	109,801	90,638	23,312	23,911
2A	.	.	.	.	.	.	.	.	.	.
3	526,294	502,829	506,252	698,163	1,081,380	454,474	424,764	390,826	300,066	455,811
3A	.	.	.	.	.	.	.	.	.	.
4	.	.	39,384	.	.	.	.	.	.	.
4A	.	.	.	175,482	949,993	541,698	447,827	470,936	321,972	320,134
5	.	.	64,015	.	.	.	.	.	.	546
5A	.	.	.	.	828,952	701,795	362,520	377,973	445,626	419,408
6	97,817	112,471	134,413	156,645	182,900	121,245	9,680	7,307	.	.
7A	.	.	.	.	.	451,934	795,321	710,329	686,347	239,655
7	290,193	282,600	413,143	349,259	317,110	292,388	300,618	292,598	155,837	126,235
7A	.	.	.	.	.	.	.	.	.	.
8	394,618	458,133	505,522	467,036	331,970	255,195	202,869	185,051	72,470	97,292
8A	.	.	.	.	.	.	.	.	.	.
9	277,349	280,137	264,634	137,587	70,766	124,476	5,702	52,904	.	.
9A	.	.	.	.	.	.	.	548,257	654,832	333,986
10	732,528	730,967	765,256	540,243	500,126	997,148	758,244	821,937	1,003,739	858,866
10A	.	.	.	.	.	.	.	.	.	.
11	471,406	158,983	247,598	281,688	280,309	266,775	196,075	67,436	74,996	72,749
11A	.	.	.	.	.	.	.	.	.	.
12	21,715	.	127,346	.	.	.	.	.	.	.
12A	.	.	.	.	.	656,727	692,752	793,480	789,287	806,745
13	753,647	734,592	831,636	723,493	549,312	549,611	621,504	379,884	609,261	621,810
13A	.	.	.	.	.	.	.	.	.	.
14	787,974	761,746	810,324	705,443	595,479	642,441	775,864	833,300	941,310	892,931
14A	.	.	.	.	.	.	.	.	.	.
15	644,830	619,705	637,659	478,985	291,929	247,606	267,581	178,657	201,755	209,419
15A	.	.	.	.	.	.	.	.	.	.
16	204,392	215,167	269,594	256,711	215,066	157,621	20,093	14	.	.
16A	.	.	.	.	.	164,110	363,919	335,962	255,465	218,446
17	353,624	288,838	254,647	304,185	253,176	228,616	200,071	132,035	203,259	220,100
18	261,365	240,604	258,724	214,567	161,630	90,380	118,349	291,248	240,086	227,495
18A	.	.	.	.	.	.	.	.	.	.
19	93,566	82,275	131,975	229,360	231,006	160,591	207,396	116,308	116,808	158,855
19A	.	.	.	.	.	.	.	.	.	.
20	667,220	599,525	721,318	677,321	504,710	407,955	296,951	327,922	256,199	445,967
21	163,212	168,444	139,450	148,346	123,705	53,614	56,136	60,954	11,320	20,348
21A	.	.	.	.	.	.	.	.	1,240,508	1,360,469
22	169,993	234,833	257,351	257,585	239,143	119,340	143,099	138,500	59,028	190,227
22A	.	.	.	.	.	.	.	.	.	.
23	250,811	320,672	420,355	303,431	210,272	245,948	176,591	128,169	62,073	25,751
23A	.	.	.	.	.	.	.	.	346,511	487,817
24	210,733	156,804	198,342	230,695	181,860	148,338	177,996	161,640	290,106	379,615
24A	.	.	.	.	.	.	.	.	.	.
25	241,989	213,876	114,487	159,428	267,175	349,442	269,440	209,865	143,452	152,510
25A	.	.	.	.	.	.	.	.	74,500	.
26	165,584	217,311	275,630	278,464	257,998	203,259	196,109	139,002	129,141	78,884
26A	.	.	.	.	.	.	.	.	.	506,017
27	64,029	26,898	56,130	129,826	130,766	142,542	106,668	43,524	121,475	20,428
27A	.	.	.	.	.	.	.	.	.	.
28	125,588	143,565	124,040	116,549	54,001	96,031	40,608	5,610	31,680	1,074
28A	.	.	.	.	.	.	715,807	673,560	462,994	436,069
29	208,889	160,140	127,601	141,156	83,789	70,267	349,118	255,871	338,166	273,675
30	169,620	180,708	195,654	167,243	244,980	262,283	204,498	152,144	187,748	129,264
30A	.	.	.	.	.	.	.	.	.	.
31	191,568	261,390	237,594	306,162	415,963	305,322	103,355	122,038	79,795	43,755
32	586,509	575,531	694,861	572,667	582,351	567,537	317,468	234,792	310,264	335,767
33	422,191	365,548	350,003	327,049	13,046	795,396	355,349	344,830	235,886	527,681
33A	.	.	.	.	.	.	.	.	.	.
34	399,696	419,446	352,840	406,092	435,261	448,558	378,462	265,404	278,043	253,893

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
35	366,703	461,744	361,143	421,674	332,924	311,200	243,045	226,641	208,859	202,443
36	631,886	346,053	319,913	398,829	427,785	324,115	321,337	230,828	282,101	259,190
37	618,073	584,522	568,645	576,952	505,994	509,267	382,333	403,002	403,207	418,905
38	344,749	261,756	415,778	470,334	474,919	387,394	314,229	278,102	229,450	147,788
38A
39	288,832	292,072	290,649	244,995	249,040	207,100	147,523	275,819	180,385	80,614
39A
40	385,772	284,686	249,442	274,958	289,789	241,217	196,812	200,783	153,919	88,761
40A
41	879,911	585,573	687,329	803,130	626,452	465,377	326,627	291,039	304,687	210,325
42	12,394	179,619	202,221	215,352	193,173	103,179	206,235	70,219	91,669	118,983
43	11,809	217,926	341,018	302,413	197,624	167,341	139,830	170,618	145,027	133,257
44	.	.	226,157	319,236	323,842	288,532	185,602	166,523	107,764	107,834
45	626,592	899,066	947,650	728,763	498,427
46	413,062	942,227	818,444	615,293	509,043
47	416,878	693,497	663,890	461,007
48	281,434	877,573	828,372	727,844
49	223,476	355,798	348,011
50	312,789	435,273	254,473
51	416,972	857,919	531,248
52	488,033	1,137,435
53	377,770	656,559
54	136,592	659,701
55	7,069
56	47,205
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Total	13,885,147	13,105,595	14,577,732	14,268,660	15,016,915	16,262,564	16,473,525	17,396,166	19,693,309	19,914,109

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
1										
1A	343,048	274,196	216,192	162,930	91,185	166,637	6,840	15,146	264,882	586,457
2	15,728	20,142								
2A			80,089	874,720	64,385	715,456	576,885	189,163	210,006	165,233
3	264,522	329,399	216,021	188,154						
3A			37,066	15,187	194,651	201,060	140,652	142,690	149,408	154,949
4										
4A	132,158	116,333	137,980	219,830	255,095	337,234	236,600	191,054	67,560	38,334
5										
5A	573,834	340,790	429,717	438,871	181,837	63,149	48,481	183,666	223,043	420,410
6		243								
6A	334,537	238,148	202,685	204,560	223,602	203,582	134,049	68,764	28,747	32,015
7	111,564	86,583								
7A			29,568	303,311	513,184	490,409	532,296	528,649	333,045	103,672
8	92,034	91,397	159,340	162,293	14,714	32,088	39,785	18,346	2,243	0
8A										
9		6,827		46,878						
9A	410,128	368,249	164,984	319,888	401,887	394,536	296,877	245,638	351,308	277,054
10	619,750	572,993	553,239	185,240	320,005	275,451	168,227	3,917	296,347	516,420
10A										
11	97,356	45,690	47,056	57,181	18,495	27,731	33,289	31,235	0	
11A										
12										
12A	1,198,119	595,154	456,400	375,162	380,152	277,288	240,175	114,934	84,828	108,170
13	787,034	782,026	648,117	132,502	190,408	143,450	116,588	108,417	56,072	68,795
13A				63,296						
14	781,820	745,895	754,320	416,516	252,405	229,480	118,847	90,509	70,778	
14A										
15	197,269	105,807	73,387	89,942	82,083	64,632				
15A										
16			12,176					311,625	679,932	659,756
16A	182,981	183,344	139,986	150,615	74,013	90,016	84,121	132,658	75,047	38,744
17	190,008	201,668	177,284	213,840	145,492	153,724	210,355	252,860	231,396	160,872
18	238,407	162,322	163,380	204,927	176,933	145,317	87,980	96,304	50,143	12,924
18A										
19	59,662	21,319	10,725	15,407						
19A					154,409	262,848	214,639	307,595	324,872	469,557
20	710,467	483,954	358,462	303,584	436,417	338,684	336,578	333,884	317,018	222,178
21	16,776	1,562		150,034						
21A	1,219,721	939,113	818,964	743,742	488,460	271,832	374,831	409,887	456,959	422,941
22	53,371	40,910	12,964	22,539	35,807	25,180	32,927	44,174	23,738	
22A										
23	15,094	13,688	3,353	7,479						
23A	396,479	212,445	133,289	131,237	162,752	304,169	243,260	285,973	164,826	134,787
24	334,801	516,498	675,646							
24A		96,118	357,802	747,465	560,386	353,732	255,190	552,690	479,358	482,260
25	120,867	118,787	103,443	187,230	553,244	551,711	654,112	539,872	626,250	732,427
25A										
26	32,759	72,763	6,392	26,151						
26A	99,925	131,847	208,068	202,307	203,615	350,597	280,326	233,751	177,546	286,939
27	27,870	32,094	45,051	44,151	25,555	21,820	17,800			
27A										
28	5,214	65,189		51,185					313,402	173,236
28A	422,636	316,478	302,149	246,129	300,355	264,738	384,058	418,195	363,650	154,652
29	220,304	145,545	178,823	172,790	80,873	93,944	91,600	110,295	116,043	46,940
30	112,525	80,980	87,277	71,897	23,454	23,376				
30A							107,457	543,998	342,697	614,589
31	36,107	22,967	36,226		314,130	412,931	316,810	514,336	276,984	294,123
32	284,582	768,061	685,526	651,276	642,582	612,148	568,279	629,039	684,295	618,552
33	567,731	295,523	260,504	249,526	199,774	182,801	168,311	19,390	17,744	1,613
33A										
34	236,685	84,326	91,483	62,360	57,317	44,199	51,789	20,753	37,029	

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
35	157,597	106,026	260,857	125,209	74,046	40,111	43,081	40,569	32,179	.
36	335,077	193,025	168,109	251,673	218,075	401,103	314,856	375,819	334,025	393,178
37	414,124	326,509	237,519	42,465	384,067	680,250	608,907	290,816	430,203	456,165
38	124,638	197,303	180,706	162,663	68,691	42,881	33,250	23,235	6,453	.
38A	.	.	.	.	.	.	.	.	.	.
39	72,255	59,894	39,881	54,184	21,088	38,053	52,057	37,374	2,022	.
39A	.	.	.	.	.	.	.	.	.	.
40	97,747	127,386	113,356	111,479	98,399	100,265	78,045	83,700	70,999	32,810
40A	.	.	.	.	.	.	.	.	.	.
41	155,205	163,963	47,439	292,886	186,378	502,364	191,600	383,462	281,835	378,640
42	57,917	84,874	55,529	74,317	19,147	39,044	42,592	60,861	46,235	11,409
43	103,595	49,684	72,461	72,066	37,328	16,101	8,512	129,157	142,505	42,668
44	122,737	133,427	120,348	124,622	80,866	101,473	89,202	134,566	92,354	177,697
45	353,589	303,155	429,446	265,617	394,218	263,605	349,682	97,837	153,232	113,114
46	244,481	227,343	169,427	171,658	147,697	308,477	369,760	112,868	71,258	171,109
47	351,741	242,881	186,615	199,977	247,982	310,735	269,939	274,334	378,531	414,637
48	653,436	322,072	326,770	376,519	294,641	348,088	272,638	252,635	277,754	391,094
49	302,387	298,832	263,256	279,189	233,290	247,736	187,271	123,521	175,197	133,060
50	247,811	313,721	337,854	513,399	463,868	305,557	287,022	297,201	272,612	212,024
51	648,078	512,756	427,564	508,638	584,456	242,112	375,561	234,210	229,789	154,424
52	754,249	.	.	.	.	.	467,217	497,023	359,366	353,821
53	583,554	626,296	301,315	468,037	341,740	473,936	608,040	397,980	334,013	317,326
54	539,560	410,074	338,614	305,846	506,649	480,081	427,382	355,155	295,821	293,657
55	.	18,632	.	.	.	.	.	.	.	.
56	584,268	528,803	605,291	430,199	573,225	615,803	299,865	441,890	228,427	391,649
57	678,180	691,665	812,515	702,149	608,079	738,818	661,413	776,946	654,017	852,483
58	363,501	426,816	455,948	560,994	735,045	786,803	659,697	531,501	551,500	562,697
59	240,407	567,468	644,089	613,828	544,622	360,122	157,463	332,824	223,131	228,692
60	79,183	.	240,283	765,051	500,432	468,779	453,165	327,661	379,160	436,012
61	137,281	696,334	452,741	357,182	422,926	477,619	511,307	482,699	649,484	523,395
62	49,698	574,268	679,244	832,375	997,725	950,109	405,104	598,387	622,493	548,651
63	.	.	2,343	94,844	260,654	554,405	185,828	173,794	83,172	147,399
64	.	.	.	.	101,203	430,081	703,311	489,203	322,103	171,508
65	.	.	.	.	.	.	198,589	262,798	93,564	392,952
66	.	.	.	.	.	.	.	.	.	317,431
67	.	.	.	.	.	358,291	229,604	356,448	561,495	291,334
68	.	.	.	.	.	291,355	342,228	417,564	334,326	486,189
69	.	.	.	.	.	.	.	.	95,966	577,277
70	.	.	.	.	.	.	544,523	545,763	575,461	694,507
71	.	.	.	.	.	.	.	.	.	.
72	.	.	.	.	.	.	.	.	230,259	491,868
73	660,568	843,642	561,045	598,718
74	115,386	138,714	333,545
75	110,922	477,234	713,335
76
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Total	20,418,377	18,934,480	18,058,559	18,498,896	18,075,031	19,854,356	18,259,293	18,699,158	18,665,130	20,805,074

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
1									100,512	113,976
1A	501,990	373,282	395,623	560,529	413,944	353,300	269,818	170,552	412,361	58,902
2						65,370				
2A	138,140	104,413	92,161	39,437	67,203		11,535	16,412	35,552	13,757
3						43,223			62,064	188,856
3A	87,270	47,835	45,813	55,640	53,626		6,777	37,460	258,906	145,020
4						136,403				17,532
4A	16,852	9,489	17,087	50,647	104,970		23,660	162,379	784,457	816,783
5						348,070				
5A	391,775	431,719	400,801	434,070	264,079		499,852	225,825	0	306,616
6										
6A	16,711	4,997	0							
7						69,649				
7A	211,626	244,983	164,198	85,886	43,745		44,399	60,739	43,980	47,740
8	0					627,939				
8A			9,250	394,041	684,879	627,939	590,064	629,421	564,753	611,181
9										
9A	365,468	377,027	145,383	220,138	330,379	269,159	127,931	113,842	145,959	120,687
10	572,626	455,411	395,590	574,305	462,943	440,576	389,288	318,444		0
10A									447,346	
11	0									
11A				59,847	207,263	517,108	415,724	203,976	425,802	102,880
12										
12A	154,117	186,010	209,216	122,948	134,657	193,086	161,782	128,476	119,972	18,278
13	4,692									
13A		240,975	267,582	170,256	150,286	86,714	93,109	123,152	50,563	42,337
14										
14A									181,909	110,431
15										
15A	725,967	805,571	747,137	488,534	442,950	484,260	411,469	483,283	506,982	483,464
16										
16A	28,038	50,841	26,437	35,944	44,065	39,472	9,615	2,904	151,317	21,370
17	143,001	212,606	191,164	189,701	91,928	84,697	112,175	16,882	206,945	145,555
18	2,632	0								
18A				0	194,927	157,192	120,140	232,203	55,823	141,146
19										
19A	279,211	586,796	458,843	552,811	370,068	555,912	183,314	363,171	780,297	624,278
20	53,946	260,097	174,037	284,944	100,632	111,390	11,935	132,660	356,359	365,251
21										
21A	414,582	288,460	359,834	268,469	355,991	283,332	316,108	285,702	465,532	726,252
22										
22A		190,460	195,068	151,809	135,703	166,149	75,369	154,267	98,386	106,306
23										
23A	40,617	9,626	65,775	254,111	127,469	110,127	106,753	25,658	52,547	65,648
24										
24A	764,563	430,445	237,290	522,881	188,020	471,175	206,696	325,060	86,254	214,851
25	411,238	309,168	263,855	254,766	423,467	489,763	200,440	205,571	82,629	131,704
25A										
26										
26A	234,405	145,345	323,502	56,392	102,478	101,278	166,976	112,094	25,964	96,248
27										
27A	210,777	258,460	189,883	218,269	158,741	274,064	38,675	17,629	28,958	16,117
28										
28A	145,144	154,227	110,577	231,600	150,525	117,001	106,735	70,461	140,005	109,219
29	20,669	27,073	16,236	4,393	19,004	43,370	0	0	0	0
30										
30A	484,847	527,933	712,419	360,247	659,754	875,017	368,519	468,688	537,265	528,573
31	233,501	114,782	88,015	185,692	406,729	113,793	50,503	42,051	101,593	107,377
32	335,298	677,154	654,136	698,589	461,873	473,815	472,754	416,784	527,843	541,329
33	473									
33A		34,000	379,489	181,054	333,119	231,914	190,655	346,342	92,934	13,101
34	25,256	0	0	0	0					

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
35	0	0	0	0	.	.	.	.	.	.
36	188,765	139,893	108,775	280,994	41,973	196,067	71,769	13,189	93,354	238,214
37	400,560	218,492	248,746	278,815	290,963	290,786	225,846	212,480	342,857	270,452
38	.	.	.	.	.	.	.	.	.	.
38A	.	455,665	390,570	140,854	143,240	148,139	200,505	255,545	177,083	126,227
39	0	0	.	.	.	.	.	.	.	.
39A	.	.	.	.	.	4,000	39,252	92,887	54,148	32,175
40	10,495	.	.	.	.	.	.	.	.	.
40A	.	.	.	.	22,240	39,754	74,511	92,740	125,585	36,221
41	212,080	119,457	203,008	118,526	274,174	41,457	76,233	44,795	245,960	76,718
42	310,987	92,543	344,248	40,181	65,647	161,856	78,395	164,781	77,954	18,015
43	93,849	197,235	224,816	44,448	128,946	142,581	13,457	30,263	144,476	135,754
44	36,154	61,976	17,885	32,698	14,354	0	0	0	.	.
45	99,280	209,093	188,035	253,472	318,572	267,099	148,999	107,945	65,198	89,319
46	107,787	42,305	61,760	48,902	261,062	62,602	26,982	18,729	45,265	269,094
47	166,382	341,324	109,241	164,244	76,557	79,616	89,582	63,189	118,702	151,959
48	111,058	125,994	250,490	196,674	460,635	131,938	183,377	210,531	270,254	124,356
49	111,854	101,778	81,915	74,632	173,069	214,927	94,747	122,530	263,140	345,660
50	226,971	294,095	97,371	180,652	275,129	58,589	239,051	22,514	190,140	267,230
51	297,402	155,276	71,270	86,211	250,864	74,865	32,979	14,078	22,330	20,410
52	298,893	254,046	299,901	752,566	565,484	556,046	619,055	480,567	437,880	410,040
53	264,542	178,841	257,670	208,378	278,716	448,326	220,904	0	3,168	111,567
54	177,336	146,007	224,774	111,164	208,080	231,263	8,234	65,116	73,888	134,411
55	281,029	787,973	749,705	465,030	228,858	387,704	191,585	146,457	229,287	52,953
56	195,600	95,084	122,311	235,231	174,522	88,432	106,464	213,267	773,680	970,210
57	918,354	592,294	620,656	765,081	653,401	618,982	640,638	619,654	565,787	648,069
58	723,652	704,819	459,843	670,251	177,768	158,780	484,686	253,102	67,618	388,815
59	331,987	292,834	278,666	293,928	156,265	186,776	379,150	90,145	24,017	147,807
60	496,877	283,230	244,836	390,017	424,784	450,545	269,561	310,414	251,922	199,461
61	355,658	215,344	143,223	119,541	322,673	245,724	94,205	556,245	.	579,575
62	747,367	737,631	884,532	860,902	593,881	722,471	622,076	691,631	602,009	422,314
63	117,739	110,166	0	0	195,485	177,002	130,842	110,764	171,081	212,216
64	289,827	263,992	248,474	625,716	332,107	617,717	404,385	411,040	220,081	131,605
65	281,264	34,931	109,808	254,394	302,062	113,359	246,761	274,721	282,163	407,292
66	213,068	224,482	122,747	125,765	120,626	165,266	70,054	103,482	57,103	31,798
67	464,012	375,405	438,774	420,859	285,418	373,294	165,325	185,405	351,622	281,815
68	332,146	149,580	81,718	241,696	273,404	52,699	65,243	16,498	33,814	21,752
69	331,794	506,770	477,068	434,737	62,010	180,231	94,294	210,677	429,486	409,631
70	524,980	687,254	528,466	347,788	685,585	295,153	357,597	411,753	374,446	376,589
71	.	332,015	332,042	218,552	210,846	261,797	468,731	410,507	457,385	796,439
72	234,649	702,291	921,183	346,666	285,509	536,548	292,682	372,259	245,974	418,570
73	240,476	174,231	210,275	284,439	416,833	373,789	126,998	144,274	303,983	265,817
74	290,002	244,894	329,351	349,705	447,666	70,566	59,482	84,884	319,785	571,423
75	482,488	452,859	580,997	373,351	211,397	307,589	152,478	146,480	189,983	104,711
76	675,443	1,063,441	897,131	683,484	881,180	972,649	905,793	777,098	876,310	786,736
77	582,062	521,360	313,335	283,733	268,213	232,850	346,252	209,617	439,324	552,304
78	326,510	589,465	664,116	703,848	647,778	691,059	379,706	517,621	445,100	196,740
79	.	.	.	.	.	.	.	.	262,994	292,556
80	.	.	.	.	.	.	75,578	171,859	122,420	170,358
81	229,245	858,079	583,771	203,188	649,878	436,619	563,365	235,535	584,650	711,725
82	.	.	281,282	303,101	249,757	438,236	216,821	268,789	125,110	352,669
84	.	.	.	.	.	.	19,126	207,353	194,580	444,410
85	.	.	.	381,098	711,964	802,470	752,706	716,056	778,592	716,144
86	.	.	.	.	.	.	127,490	457,953	409,568	324,394
87	.	.	.	.	.	.	107,672	232,084	318,938	373,094
90	.	.	.	.	.	.	.	315,783	358,018	849,652
92	.	.	.	.	.	.	.	.	0	299,621
93	.	.	.	.	.	.	.	.	0	23
94	.	.	.	.	.	.	.	.	287,230	359,340
96	.	.	.	.	.	.	.	.	.	12,768
97	.	.	.	.	.	.	.	.	.	31,695
Total	19,796,056	21,693,629	21,141,186	21,103,462	21,504,992	21,442,536	17,144,394	17,777,374	22,837,211	23,923,678

TABLE 1.--Annual pumpage for municipal wells for the city of Fresno, 1931-80
(in thousands of gallons)--Continued

Map No.	Total pumpage	Map No.	Total pumpage	Map No.	Total pumpage	Map No.	Total pumpage	Map No.	Total pumpage
1	4,201,185	13A	1,288,270	27	3,019,511	45	8,171,005	70	6,949,865
1A	8,374,432	14	26,767,114	27A	1,898,211	46	6,236,635	71	3,488,314
2	7,019,733	14A	292,340	28	3,121,755	47	6,473,440	72	5,078,458
2A	3,659,917	15	10,882,098	28A	6,797,023	48	8,296,177	73	5,205,088
3	18,319,594	15A	7,230,930	29	7,006,517	49	4,755,276	74	3,355,403
3A	1,817,233	16	5,117,829	30	11,734,584	50	6,105,346	75	4,303,824
4	1,426,831	16A	2,899,430	30A	7,132,003	51	6,749,412	76	8,519,265
4A	7,082,947	17	16,046,538	31	8,315,246	52	13,664,220	77	3,749,050
5	2,884,160	18	8,839,074	32	19,158,943	53	7,458,678	78	5,161,943
5A	9,342,879	18A	901,431	33	8,416,744	54	6,129,405	79	555,550
6	3,839,941	19	5,951,066	33A	1,802,608	55	3,546,282	80	540,215
6A	4,575,983	19A	6,488,621	34	6,287,342	56	7,721,426	81	5,056,055
7	9,421,697	20	14,705,891	35	7,301,380	57	13,819,181	82	2,235,765
7A	3,851,079	21	2,899,285	36	9,424,646	58	10,323,836	84	865,469
8	10,460,652	21A	12,511,689	37	13,085,564	59	6,504,572	85	4,859,030
8A	4,111,528	22	4,655,577	38	5,128,193	60	6,971,373	86	1,319,405
9	6,745,657	22A	1,273,517	38A	2,037,828	61	7,343,156	87	1,031,788
9A	6,983,597	23	8,058,559	39	3,079,747	62	13,142,868	90	1,523,453
10	26,122,071	23A	3,861,876	39A	222,462	63	2,727,734	92	299,621
10A	447,346	24	7,095,649	40	3,609,218	64	5,762,353	93	23
11	8,221,184	24A	7,332,236	40A	391,051	65	3,254,658	94	646,570
11A	1,932,600	25	15,175,407	41	9,512,579	66	1,551,822	96	12,768
12	9,174,466	25A	74,500	42	3,239,576	67	5,139,101	97	31,695
12A	8,997,915	26	4,628,019	43	3,656,765	68	3,140,212		
13	23,624,855	26A	4,045,680	44	3,065,849	69	3,809,941	Total	753,694,179

TABLE 2.--Annual pumpage for municipal wells for the city of Clovis, 1965-80
(in thousands of gallons)

Map No.	1965	1966	1967	1968	1969	1970	1971	1972	1973
CL1	90,756	33,263	62,896	65,739	41,827	25,617	32,643	11,360	50,830
CL2	105,460	100,953	107,973	127,709	96,837	101,140	81,308	21,970	116,011
CL3	128,544	143,823	122,750	157,450	117,407	206,717	210,630	25,940	191,090
CL4	72,965	26,351	52,255	57,451	.	.	.	.	.
CL5	65,098	64,353	87,501	97,920	106,519	138,197	104,952	14,050	169,810
CL6	20,139	63,502	81,868	84,187	63,774	114,823	93,152	16,530	91,090
CL7	104,356	211,522	141,896	58,316	219,366	109,525	111,860	45,350	128,820
CL8	88,839	99,775	122,923	107,251	105,084	113,754	187,028	22,920	97,890
CL9	106,970	207,876	135,788	131,224	150,421	154,697	196,631	20,810	107,120
CL10	.	.	.	102,206	131,631	183,530	275,234	15,680	202,430
CL11	.	.	.	.	.	.	.	.	.
CL12	.	.	.	.	.	.	.	.	.
CL13	.	.	.	.	.	.	.	.	.
CL14	.	.	.	.	.	.	.	.	.
Total	783,127	951,418	915,850	989,453	1,032,866	1,148,000	1,293,438	194,610	1,155,091

Map No.	1974	1975	1976	1977	1978	1979	1980	Total pumpage
CL1	123,000	58,040	51,110	50,710	15,840	97	74,010	787,738
CL2	58,530	54,400	59,860	56,610	17,980	88,847	77,860	1,273,448
CL3	299,416	294,640	219,130	242,460	131,500	203,010	253,870	2,948,377
CL4	.	.	.	.	.	.	.	209,022
CL5	113,010	116,840	96,730	84,860	25,500	127,930	141,740	1,555,010
CL6	95,710	40,280	123,422	88,140	.	174,467	187,020	1,338,104
CL7	281,140	217,900	122,770	65,780	29,120	486,933	431,220	2,765,874
CL8	159,880	113,588	131,990	52,230	4,552	126,250	124,960	1,658,914
CL9	167,760	131,870	150,070	221,650	21,300	227,250	270,670	2,402,107
CL10	433,870	169,500	381,710	407,976	93,520	351,252	310,960	3,059,499
CL11	20,040	404,526	510,530	420,550	199,250	661,912	549,240	2,766,048
CL12	.	.	.	.	.	.	70	70
CL13	.	.	.	.	.	.	17,860	17,860
CL14	.	.	.	.	.	.	123,210	123,210
Total	1,752,356	1,601,584	1,847,322	1,690,966	538,562	2,447,948	2,562,690	20,905,281

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)

Map No.	1958	1959	1960	1961	1962	1963	1964	1965
D1-1	41,701	18,291	1,926	0	0	.	.	.
D1-2	42,768	106,458	65,276	47,496	98,987	136,700	210,041	163,489
D1-3	60,777	3,756	5,342	33,761	43,800	66,335	40,232	39,838
D1-4	65,483	98,006	102,127	130,249	71,683	60,994	72,774	68,393
D1-5	56,685	129,828	133,837	88,546	164,307	89,628	54,984	58,590
D1-6	0	132,779	140,746	158,851	95,787	52,286	50,922	37,746
D1-7	.	.	.	.	.	.	61,442	39,865
D1-8	.	.	.	.	.	.	.	.
D2-1	45,883	38,497	46,156	6,060	23,289	26,573	31,306	30,350
D2-2	11,178	77,022	64,918	54,644	22,920	21,599	28,016	22,094
D2-3	.	.	6,626	54,997	53,899	63,927	68,890	72,137
D2-4	.	.	.	.	.	3,661	.	.
D4-1	2,416	2	398	0	0	.	48,641	24,904
D4-2	58,970	127,986	107,811	132,311	102,228	74,049	90,326	75,982
D4-3	60,371	50,805	121,208	123,563	98,606	112,093	117,469	74,507
D4-4	22,573	107,965	70,290	59,072	59,022	74,558	79,575	80,159
D4-5	12,065	131,732	54,583	87,782	55,678	66,660	69,740	87,467
D4-6	94,120	115,834	165,006	115,768	139,135	115,958	120,621	113,502
D4-7	119,146	95,268	35,747	.	34,010	71,174	67,669	107,496
D4-8	.	.	.	.	.	.	.	.
D4-9	.	.	.	.	.	.	.	.
D5-1	34,635	59,904	57,667	37,794	18,866	23,498	19,437	25,518
D5-2	8,909	24,941	22,600	39,731	39,760	27,944	30,529	33,536
D5-3	.	.	.	11,241	120,460	17,968	39,206	29,886
D5-4	.	.	.	.	419	61,352	61,347	69,037
D7-1	12,817	29,021	19,698	13,214	35,906	33,298	33,240	35,685
D7-2	34,690	62,901	62,332	69,396	42,207	31,900	44,016	38,179
D8-1	105,364	155,189	72,915	155,666	110,884	99,758	89,468	54,535
D8-2	37,160	94,981	63,551	191,170	148,581	129,033	103,017	71,883
D8-3	139,878	203,565	218,215	76,460	105,762	114,307	90,611	147,654
D8-4	7,850	64,518	131,311	91,186	34,014	66,790	83,739	80,051
D8-5	.	.	50,467	73,709	129,437	105,584	190,793	200,281
D8-6	.	.	.	.	66,858	61,247	115,190	88,506
D8-7	.	.	.	.	.	.	.	.
D8-8	.	.	.	.	.	.	.	.
D9-1	.	.	.	.	.	.	.	.
D9-2	.	.	.	.	.	.	.	.
D10-1	41,731	91,320	133,191	127,417	88,485	70,344	92,665	75,465
D10-2	70,898	128,421	91,434	105,259	123,078	90,395	85,256	106,864
D10-3	70,558	175,262	132,693	153,668	90,293	102,453	95,888	129,670
D10-4	36,765	54,009	95,849	68,066	153,870	129,308	187,508	119,570
D10-5	.	.	.	.	.	.	.	15,963
D10-6	.	.	.	.	.	.	.	.
D11-1	31,264	55,208	91,141	54,901	52,985	47,345	57,846	57,391
D11-2	.	.	.	.	.	.	.	1,534
D12-1	.	.	.	.	15,355	85,207	55,603	41,972
D12-2	.	.	.	.	19	45,804	25,425	16,383
D12-3	.	.	.	.	13	53,646	55,843	53,658
D12-4	.	.	.	.	.	67,066	137,324	153,834
D13-1	.	.	18,191	103,191	60,654	65,033	45,780	26,401
D13-2	13,974	90,772	96,799	136,705	106,687	87,798	125,780	9,098
D13-3	.	.	.	.	.	.	.	108,956
D14-1	.	.	.	.	.	.	.	.
D14-2	.	.	.	.	.	.	.	.

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)--Continued

Map No.	1958	1959	1960	1961	1962	1963	1964	1965
D15-2	.	.	.	.	.	.	.	.
D17-1	26,336	25,644	57,160	19,645	31,340	26,030	31,407	27,449
D17-2	14,545	51,481	48,462	33,694	44,498	44,823	48,133	51,474
D19-1	43,995	40,275	60,878	86,485	59,265	44,901	50,471	52,541
D19-2	18,709	51,386	27,572	47,146	74,712	60,989	50,770	49,835
D19-3	0	47,537	67,854	24,482	33,945	36,326	52,824	51,031
D19-4	.	.	.	17,607	9,528	18,089	49,844	52,897
D19-5	.	.	.	.	.	.	.	.
D20-1	.	.	.	.	.	.	.	.
D20-2	.	.	.	.	.	.	.	.
D21-1	36,342	68,670	4,000	57,111	45,372	12,213	17,739	29,756
D21-2	73,850	111,204	105,464	84,374	25,288	35,255	17,510	23,516
D21-3	51,789	116,544	118,516	138,171	111,477	111,647	143,103	139,682
D21-4	.	.	97,010	38,491	28,647	43,945	57,526	57,395
D21-5	.	.	.	4,946	139,098	105,160	120,922	110,690
D21-6	.	.	.	.	.	.	.	.
D21-7	.	.	.	.	.	.	.	.
D22-1	19,288	19,558	17,849	40,013	26,527	14,621	22,791	21,484
D22-2	.	21,881	23,843	1,643	16,516	22,836	19,607	19,139
D23-1	5,539	11,254	19,083	35,238	13,350	26,701	13,378	20,816
D23-2	2,664	9,620	10,257	15,352	32,493	9,087	17,629	14,162
D23-3	.	.	.	.	.	.	.	19,158
D23-4	.	.	.	.	.	.	.	.
D23-5	.	.	.	.	.	.	.	.
D24-1	.	.	.	1,136	43,611	6,645	22,222	25,465
D24-2	4,137	65,891	26,925	31,641	17,060	97,209	99,133	137,153
D24-3	.	.	.	60,551	87,717	28,641	669	5,063
D24-4	.	.	.	.	.	.	.	.
D25-1	5,556	19,087	33,767	36,638	35,705	38,160	69,135	66,687
D25-2	.	.	.	20,906	48,704	39,934	46,219	37,221
D25-3	.	.	.	.	5,608	33,766	44,763	78,029
D25-4	.	.	.	.	.	.	12,125	20,012
D25-5	.	.	.	.	.	.	.	10,256
D25-6	.	.	.	.	.	.	.	.
D25-7	.	.	.	.	.	.	.	.
D25-8	.	.	.	.	.	.	.	.
D25-9	.	.	.	.	.	.	.	.
D25-10	.	.	.	.	.	.	.	.
D26-1	.	.	.	.	.	.	.	.
D26-2	.	.	.	.	.	.	.	.
D27-1	.	3,077	8,982	13,407	18,146	7,555	12,797	11,290
D27-2	.	.	.	.	.	9,098	8,519	12,281
D27-3	.	.	.	.	.	.	.	.
D29-1	.	666	1,006	8,972	.	42,086	85,433	34,315
D29-2	.	583	3,223	2,655	50,682	57,929	75,004	47,680
D29-3	.	.	.	.	5,467	51,352	56,865	108,706
D32-1	.	577	1,780	2,779	2,853	5,406	13,334	17,660
D32-2	.	.	.	.	4,236	5,714	7,880	11,709
D32-3	.	.	.	.	390	2,084	2,976	3,191
D32-4	.	.	.	.	.	3,912	7,799	10,330
D32-5	.	.	.	.	.	.	.	.
D34-1	.	.	.	2,739	7,716	3,593	2,960	2,648
Total	1,643,379	3,189,176	3,213,682	3,427,696	3,627,895	3,698,980	4,359,646	4,268,750

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)--Continued

Map No.	1966	1967	1968	1969	1970	1971	1972	1973
D1-1	.	.	.	.	.	.	.	.
D1-2	199,431	98,467	35,610	0	.	.	.	.
D1-3	63,732	69,543	31,792	58,697	34,329	45,418	45,086	50,233
D1-4	78,928	65,389	57,096	43,317	61,360	48,068	51,140	31,841
D1-5	61,611	64,399	68,362	68,148	76,423	62,163	46,946	36,249
D1-6	62,559	52,831	36,774	41,576	34,454	25,503	16,263	19,937
D1-7	105,937	76,930	74,968	84,109	86,472	92,314	113,482	97,277
D1-8	.	52,882	160,392	183,632	203,474	206,933	250,725	243,337
D2-1	42,406	26,972	39,448	41,692	42,863	37,829	15,704	31,283
D2-2	16,449	13,889	16,962	11,499	24,390	18,260	26,056	16,417
D2-3	44,679	52,491	27,319	33,485	38,229	43,660	66,458	46,255
D2-4	36,295	41,243	49,063	47,366	46,348	44,070	45,819	48,855
D4-1	21,239	30,886	20,594	1,804	.	.	.	.
D4-2	62,230	89,785	67,247	81,125	31,003	45,607	1,294	.
D4-3	92,254	87,382	105,112	130,144	163,841	86,874	114,924	99,524
D4-4	110,037	94,955	77,156	68,202	109,422	84,888	75,424	72,943
D4-5	88,907	55,538	64,385	68,484	67,016	62,500	66,168	103,147
D4-6	145,268	92,292	131,964	91,383	63,410	112,515	83,628	73,483
D4-7	88,683	101,823	116,593	108,868	83,516	82,237	78,341	108,087
D4-8	.	.	.	33,024	103,295	126,733	151,492	75,821
D4-9	.	.	.	.	.	.	30,255	60,184
D5-1	16,409	25,380	27,614	23,311	33,097	39,202	42,301	45,523
D5-2	47,599	36,253	32,654	59,372	63,188	57,785	47,743	34,814
D5-3	46,166	50,081	46,214	28,717	31,499	41,769	35,305	31,161
D5-4	68,717	59,426	69,770	68,162	67,109	55,175	85,993	62,384
D7-1	34,178	36,031	28,555	22,829	27,562	34,568	32,467	34,829
D7-2	45,946	37,601	49,989	50,390	51,629	40,202	45,820	36,660
D8-1	93,145	81,289	98,808	72,301	92,830	106,272	79,701	86,108
D8-2	116,296	102,966	95,584	116,930	104,124	110,838	112,414	58,615
D8-3	145,595	77,027	118,349	130,900	154,586	78,053	133,299	95,302
D8-5	183,202	219,166	138,601	133,714	135,585	156,752	182,768	226,179
D8-6	157,141	113,445	109,747	127,678	105,929	63,584	74,474	109,767
D8-7	.	.	90,579	97,968	95,136	110,675	92,437	106,130
D8-8	.	.	.	.	.	.	.	.
D9-1	.	.	.	.	.	.	.	16,684
D9-2	.	.	.	.	.	.	.	10,832
D10-1	59,124	50,196	76,849	54,763	69,025	74,400	56,666	47,569
D10-2	74,061	92,761	70,383	79,420	118,889	85,173	64,872	48,378
D10-3	111,210	84,248	103,471	115,282	74,425	46,719	32,385	41,089
D10-4	150,942	177,441	165,127	153,843	195,268	145,733	151,584	152,479
D10-5	71,037	46,594	47,988	60,933	52,278	50,092	52,681	34,921
D10-6	.	.	.	.	.	70,722	85,557	94,846
D11-1	61,974	38,235	32,150	37,544	55,890	48,525	39,229	48,135
D11-2	6,420	28,687	33,875	28,197	15,675	21,941	34,656	21,936
D12-1	40,197	50,208	40,238	51,951	44,057	46,635	53,878	64,952
D12-2	32,263	21,185	33,631	36,120	33,040	36,413	38,873	47,957
D12-3	82,045	56,223	46,309	41,897	91,018	66,320	59,541	53,357
D12-4	139,713	138,029	156,341	119,009	145,529	156,135	163,400	121,892
D13-1	95,861	4,081	23,170	33,112	63,447	54,691	31,854	28,806
D13-2	91,303	69,546	53,460	52,544	70,660	43,757	39,347	32,215
D13-3	304	105,264	90,685	48,152	58,444	86,598	120,994	121,036
D14-1	2,489	66,446	41,940	30,188	34,642	60,521	58,143	51,485
D14-2	.	.	31,943	59,186	63,678	34,440	41,879	43,491

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)--Continued

Map No.	1966	1967	1968	1969	1970	1971	1972	1973
D15-2	.	.	.	.	33,323	23,946	30,315	28,790
D17-1	29,001	25,478	37,324	29,582	37,777	32,513	32,301	24,324
D17-2	56,274	53,477	43,732	51,592	50,479	47,707	47,103	44,654
D19-1	59,169	61,193	58,108	48,693	53,988	58,902	45,153	45,301
D19-2	60,780	61,772	75,402	84,221	83,391	78,291	87,737	90,499
D19-3	59,220	60,147	57,293	65,277	70,297	72,868	71,189	61,604
D19-4	63,821	60,121	55,009	49,316	53,180	51,448	73,362	70,632
D19-5	.	.	.	.	.	.	.	.
D20-1	.	1,822	40,456	56,143	53,677	52,689	58,975	41,557
D20-2	.	1,300	59,266	53,047	68,172	60,752	55,132	69,690
D21-1	25,341	34,901	22,786	34,168	34,979	22,276	12,668	19,860
D21-2	37,502	30,433	25,182	39,073	73,575	59,225	46,799	36,563
D21-3	127,668	131,727	166,605	165,336	108,602	89,587	99,528	100,426
D21-4	104,844	88,679	73,208	70,173	49,704	33,093	46,765	62,582
D21-5	112,953	128,981	124,700	120,473	60,672	42,078	90,789	36,896
D21-6	.	.	.	.	46,498	96,596	83,613	125,074
D21-7	.	.	.	.	.	.	.	.
D22-1	24,031	21,594	26,177	25,037	24,620	24,771	25,715	21,600
D22-2	21,403	18,356	22,209	18,283	19,511	21,794	15,350	17,009
D23-1	15,772	18,745	23,075	35,258	34,850	33,021	34,248	28,641
D23-2	17,086	22,632	8,767	14,645	21,923	13,414	18,778	8,939
D23-3	37,409	31,448	54,066	63,527	83,996	47,502	59,607	67,106
D23-4	.	.	.	.	.	52,963	55,839	71,238
D23-5	.	.	.	.	.	.	.	.
D24-1	26,212	43,218	15,669	6,873	44,477	39,246	32,890	36,732
D24-2	171,418	151,476	53,759	102,370	25,207	56,266	62,722	70,373
D24-3	3,410	6,589	2,825	1,331	874	2,878	2,274	1,858
D24-4	.	.	111,632	123,281	152,492	145,673	165,924	139,292
D25-1	61,291	61,349	33,011	33,962	66,183	37,360	55,210	36,247
D25-2	46,046	40,834	34,435	28,660	34,280	45,037	51,223	60,110
D25-3	69,569	53,135	48,572	46,622	68,414	58,433	52,358	82,449
D25-4	39,433	44,553	54,241	49,889	41,835	57,637	52,195	47,615
D25-5	60,614	90,891	102,025	82,372	64,735	109,037	80,824	89,591
D25-6	.	.	39,054	41,195	84,852	71,235	107,350	83,180
D25-7	.	.	.	52,564	99,579	91,445	112,882	47,419
D25-8	.	.	.	.	.	52,477	64,309	55,631
D25-9	.	.	.	.	.	.	31,267	60,185
D25-10	.	.	.	.	.	.	.	32,793
D26-1	30,601	29,241	29,500	30,986	33,853	35,178	41,537	41,021
D26-2	.	.	.	.	.	.	.	.
D27-1	14,872	17,294	19,107	20,133	28,911	32,332	36,014	32,568
D27-2	15,106	16,788	19,879	24,180	21,032	20,254	22,975	27,449
D27-3	.	.	.	.	.	.	.	.
D29-1	32,245	55,569	40,829	37,966	30,350	100,535	95,830	98,083
D29-2	56,795	61,426	42,409	77,878	75,651	117,212	128,394	121,840
D29-3	143,091	107,257	144,054	140,130	198,024	87,313	115,415	97,348
D32-1	10,327	16,480	12,504	10,026	19,648	21,059	27,985	20,902
D32-2	24,770	18,595	38,317	35,468	49,699	39,110	62,973	80,126
D32-3	7,976	16,010	20,257	28,462	35,467	44,085	53,279	55,864
D32-4	18,636	19,865	17,224	28,014	20,120	36,693	24,186	25,599
D32-5	.	.	.	.	.	.	.	.
D34-1	4,806	.	4,511	4,300	6,020	6,033	7,662	7,341
Total	5,062,355	4,818,108	5,038,338	5,206,434	5,760,725	5,638,972	6,006,304	5,799,804

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)--Continued

Map No.	1974	1975	1976	1977	1978	1979	1980	Total pumpage
D1-1	.	.	.	.	.	.	.	61,918
D1-2	.	.	.	.	.	.	.	1,204,723
D1-3	60,081	37,440	38,165	37,349	29,730	50,920	20,139	966,495
D1-4	49,183	46,431	65,623	52,818	35,029	46,446	68,384	1,470,762
D1-5	32,171	52,699	68,710	55,967	105,946	76,315	87,854	1,740,368
D1-6	15,715	39,914	71,213	31,217	23,143	35,641	26,626	1,202,483
D1-7	130,230	96,557	97,441	93,543	97,894	85,963	117,794	1,552,218
D1-8	207,787	199,546	107,160	127,896	100,174	120,774	114,981	2,279,693
D2-1	60,852	39,860	41,989	40,349	38,738	37,982	67,966	854,047
D2-2	26,019	54,472	42,052	29,368	30,683	25,548	.	654,455
D2-3	25,367	31,835	28,144	23,047	28,188	52,716	38,251	900,600
D2-4	48,378	33,295	32,302	34,150	38,022	47,544	37,418	633,829
D4-1	.	.	.	.	.	.	.	150,884
D4-2	.	.	.	.	.	.	.	1,147,954
D4-3	109,474	119,083	113,038	81,883	77,792	89,255	99,866	2,329,068
D4-4	47,146	77,903	84,605	60,325	83,810	61,677	64,070	1,725,777
D4-5	39,444	56,356	47,806	34,083	46,544	99,415	72,885	1,538,385
D4-6	195,453	154,997	114,069	185,525	65,413	112,238	100,056	2,701,638
D4-7	53,136	60,450	79,755	55,180	49,519	90,973	88,803	1,776,474
D4-8	142,988	93,250	106,870	58,064	19,023	58,546	91,416	1,060,522
D4-9	57,425	52,080	51,874	19,990	68,021	5,6838	101,644	498,311
D5-1	21,023	16,056	16,189	24,637	31,105	27,768	20,588	687,522
D5-2	77,034	58,206	62,415	69,275	49,642	65,150	40,397	1,029,477
D5-3	20,165	48,211	28,540	17,962	50,857	72,510	73,898	841,816
D5-4	85,641	81,454	89,159	72,068	56,287	41,841	80,538	1,235,879
D7-1	35,700	32,997	33,712	33,432	24,896	45,060	29,550	699,245
D7-2	37,543	31,470	39,637	31,232	42,551	33,035	36,788	996,114
D8-1	96,356	88,746	65,380	32,134	58,856	80,093	85,135	2,060,933
D8-2	117,333	68,240	61,367	84,786	95,562	80,068	103,335	2,267,834
D8-3	118,236	107,623	86,158	49,252	76,808	74,906	33,233	2,575,779
D8-4	60,137	61,589	40,155	51,896	62,825	68,142	2,578	1,410,608
D8-5	158,862	153,499	120,967	41,151	67,318	126,549	173,129	2,967,713
D8-6	46,041	24,615	157,571	129,879	68,732	34,273	923	1,655,600
D8-7	113,072	119,928	91,461	70,659	76,786	61,074	123,998	1,249,903
D8-8	.	38,040	49,665	22,219	22,401	108,785	104,896	346,006
D9-1	16,764	23,710	22,749	17,580	15,377	13,493	17,147	143,504
D9-2	27,526	21,348	29,097	15,318	20,473	36,673	36,733	198,000
D10-1	67,887	60,859	70,362	43,761	69,908	58,606	65,799	1,646,392
D10-2	81,342	73,160	62,720	36,503	45,730	54,148	57,469	1,846,614
D10-3	61,527	52,907	64,099	53,178	57,317	65,680	67,606	1,981,628
D10-4	169,066	151,715	98,349	88,041	108,021	92,035	108,707	2,953,296
D10-5	24,224	61,926	50,014	26,172	25,210	30,289	41,640	691,962
D10-6	65,621	34,478	29,180	15,745	9,019	72,901	36,132	514,201
D11-1	39,637	46,755	39,468	37,955	34,860	54,612	40,009	1,103,059
D11-2	25,496	20,616	33,032	21,116	19,259	17,367	25,720	355,527
D12-1	55,187	47,873	50,299	21,740	36,623	40,789	20,387	863,151
D12-2	46,279	51,881	48,191	42,268	17,776	11,743	8,148	593,399
D12-3	58,174	52,682	35,157	19,985	36,209	31,235	15,174	908,486
D12-4	142,790	138,714	156,013	139,756	150,789	193,256	61,567	2,481,157
D13-1	26,740	18,223	21,264	15,885	15,397	15,291	20,332	787,404
D13-2	31,831	39,432	40,094	40,886	35,706	46,233	12,205	1,366,832
D13-3	133,548	130,034	131,842	109,056	119,101	127,630	39,681	1,531,325
D14-1	71,053	62,677	70,813	56,623	56,435	74,174	27,101	764,730
D14-2	32,007	39,672	33,153	31,514	32,851	27,395	14,060	485,269

TABLE 3.--Annual pumpage for municipal wells for Fresno County water districts, 1958-80
(in thousands of gallons)--Continued

Map No.	1974	1975	1976	1977	1978	1979	1980	Total pumpage
D15-2	36,196	40,024	31,747	23,784	13,768	34,913	17,231	314,037
D17-1	28,440	26,227	28,918	33,671	30,864	32,909	39,476	713,816
D17-2	49,405	40,182	54,281	36,719	40,800	49,374	49,945	1,052,834
D19-1	52,276	42,035	44,221	54,157	49,559	18,455	.	1,130,021
D19-2	96,292	101,297	82,071	45,019	59,079	104,783	87,578	1,579,331
D19-3	65,505	66,127	49,996	58,054	65,135	64,177	65,240	1,266,128
D19-4	66,432	38,083	28,439	28,764	45,756	48,950	48,835	930,113
D19-5	.	26,938	63,404	55,075	28,318	58,414	93,334	325,483
D20-1	42,513	34,209	33,396	40,492	45,738	70,735	46,336	618,738
D20-2	74,729	84,916	83,686	40,714	37,042	64,549	72,389	825,384
D21-1	32,671	30,908	29,440	29,222	34,278	32,062	32,144	698,907
D21-2	55,654	49,661	40,630	38,871	29,470	37,078	23,933	1,100,110
D21-3	182,045	87,403	68,077	75,140	59,636	91,272	118,334	2,602,315
D21-4	35,156	29,980	29,799	46,171	17,878	35,235	39,456	1,085,737
D21-5	18,632	54,772	30,197	50,077	52,663	50,644	39,602	1,494,945
D21-6	64,924	139,123	115,109	67,027	97,233	96,763	90,354	1,022,314
D21-7	76,186	51,578	78,874	84,150	80,685	77,931	27,583	476,987
D22-1	17,712	17,805	19,718	15,553	18,383	19,901	18,789	503,537
D22-2	21,517	21,850	20,615	16,029	16,376	18,713	17,876	412,356
D23-1	41,790	35,176	37,870	22,521	28,975	31,656	21,131	588,088
D23-2	9,618	14,778	25,955	11,539	17,718	6,849	12,673	336,578
D23-3	62,595	85,539	73,975	49,618	57,276	74,597	73,496	940,915
D23-4	76,543	51,948	59,397	96,424	33,424	67,947	63,799	629,522
D23-5	.	.	.	22,500	77,485	71,206	87,913	259,104
D24-1	36,492	42,981	34,450	50,462	26,298	30,818	28,317	594,214
D24-2	86,714	72,554	230,576	47,700	76,986	126,244	28,644	1,842,158
D24-3	8,500	5,240	28,655	5,460	697	167	33	253,432
D24-4	152,206	170,837	.	165,327	159,036	133,230	5,615	1,624,545
D25-1	9,028	.	.	.	.	.	.	698,376
D25-2	48,631	25,895	34,208	40,350	45,860	33,847	31,070	793,470
D25-3	63,352	79,868	86,157	77,110	116,518	56,029	27,664	1,148,416
D25-4	36,710	20,329	31,598	25,334	31,065	19,591	7,181	591,343
D25-5	123,478	98,301	79,761	103,437	35,139	79,611	104,790	1,314,862
D25-6	29	28,562	89,159	73,869	77,360	136,150	39,961	871,956
D25-7	80,727	128,023	88,700	41,078	78,083	179,477	156,149	1,156,126
D25-8	179,860	115,314	135,110	118,925	153,710	97,405	96,736	1,069,477
D25-9	44,268	8,058	7,301	40,553	36,271	46,996	28,861	303,760
D25-10	36,429	152,009	104,757	46,444	37,685	22,759	130,626	563,502
D26-1	18,997	7,087	7,417	6,891	5,745	7,875	4,515	330,444
D26-2	.	17,603	.	.	.	22,072	.	39,675
D27-1	24,665	33,589	27,382	33,601	40,587	35,920	36,905	509,134
D27-2	42,804	36,886	31,726	41,926	45,950	52,580	50,175	499,608
D27-3	.	38,793	61,822	38,918	47,992	75,155	75,713	338,393
D29-1	87,545	81,110	93,351	106,787	144,366	102,642	58,435	1,338,121
D29-2	107,122	53,685	49,434	54,653	105,547	62,424	44,990	1,397,216
D29-3	133,932	200,469	193,466	139,398	54,226	175,392	79,029	2,230,934
D32-1	23,606	32,905	31,154	31,987	31,479	31,354	33,412	399,217
D32-2	95,880	102,281	104,384	91,828	84,961	102,330	98,636	1,058,897
D32-3	58,954	44,036	37,031	53,318	56,825	66,313	67,604	654,122
D32-4	32,610	32,832	32,900	29,135	30,588	35,319	47,984	453,746
D32-5	.	29,626	79,836	95,652	106,845	123,331	95,223	530,513
D34-1	7,905	3,657	13,403	10,918	12,063	16,950	18,934	144,159
Total	6,211,966	6,138,593	6,062,641	5,196,770	5,307,777	6,262,689	5,407,405	111,348,085

TABLE 4.--Annual pumpage for municipal pumpage for other water districts, 1956-80
(in thousand of gallons)

[B, Bakman, private company; C, Calwa; and CSA, CSA-11. Pinedale data are sum of 7 wells]

Map No.	1956	1957	1958	1959	1960	1961	1962	1963	1964
B-1	8,400	10,208	11,416	12,611	14,357
B-2	22,400	27,222	30,442	33,630	38,286
B-3	2,800	3,403	3,805	424	4,786
B-4	16,800	20,416	22,831	25,222	28,715
B-6	15,200	30,624	34,247	37,833	43,072
B-7	8,400	10,208	11,416	12,611	14,357
B-8	36,400	44,235	49,468	54,648	62,215
B-9	11,200	13,611	15,221	16,815	19,143
B-10	1,680	2,042	2,283	2,522	2,871
B-11	22,400	27,222	30,442	33,630	38,286
B-12	39,200	47,638	53,273	58,852	67,001
B-13	84,000	102,081	114,156	126,111	143,574
C-1	22,391	95,630	31,119	47,610	76,491	26,763	1,174	1,432	985
C-2	121,521	171,243	55,789	72,963	63,817	75,043	56,433	79,353	41,427
C-3	76,533	84,494	97,687	81,287	65,715	76,163	40,899	69,705	12,765
C-4	.	83	1,010	4,027	13,626	33,368	7,221	10,761	3,839
C-5	83,214	181,364	110,188	206,546
C-6
C-7
CSA-1
Pinedale
Total	220,445	351,450	185,605	205,887	488,529	633,461	666,091	686,348	742,225

Map No.	1965	1966	1967	1968	1969	1970	1971	1972	1973
B-1	14,959	17,585	15,533	11,422	1,758	12,371	19,261	19,560	20,601
B-2	39,890	46,893	41,420	30,458	31,354	35,390	51,363	52,161	54,935
B-3	4,986	5,862	5,178	3,807	3,919	4,424	6,420	6,520	6,867
B-4	29,917	35,169	31,065	22,843	23,515	26,542	38,522	39,121	41,201
B-6	44,876	52,754	46,598	3,426	35,273	39,813	57,784	58,681	61,802
B-7	14,959	17,585	15,533	11,422	158	12,371	19,261	19,560	20,601
B-8	64,821	76,200	67,308	49,494	50,949	57,508	83,465	84,762	89,269
B-9	19,945	23,446	20,710	15,229	15,677	17,695	25,682	26,081	27,467
B-10	299	3,517	3,107	2,284	2,352	2,654	3,852	3,912	4,120
B-11	39,890	46,893	41,420	30,458	31,354	35,390	51,363	52,161	54,935
B-12	69,807	82,062	72,486	53,301	54,869	61,932	89,885	91,282	96,136
B-13	149,586	175,847	155,327	114,216	117,576	132,711	192,612	195,604	206,006
C-1	762	186	2,004	855	1,076	41	5	32	28
C-2	32,434	35,484	129,104	126,241	58,545	34,251	31,800	22,459	82,757
C-3	84,399	60,659	47,732	87,544	58,839	39,368	104,775	100,633	80,784
C-4	8,772	12,053	5,918	13,327	11,679	11,851	9,175	4,851	5,075
C-5	193,741	258,704	160,589	201,502	168,412	188,771	254,331	387,536	454,381
C-6	.	.	.	.	169,647	222,798	149,203	68,355	55,666
C-7	.	.	.	.	.	.	.	.	.
CSA-1	4,413	11,075	10,425	10,325	7,145	8,360	7,756	12,434	14,108
Pinedale	.	.	.	.	.	280,000	300,000	300,000	335,000
Total	818,456	961,974	871,457	788,154	844,097	1,224,241	1,496,515	1,545,705	1,711,739

TABLE 4.--Municipal pumpage for other water districts, 1956-80
(in thousand of gallons)--Continued

[B, Bakman, private company; C, Calwa; and CSA, CSA-11. Pinedale data are sum of 7 wells]

Map No.	1974	1975	1976	1977	1978	1979	1980	Total pumpage
B-1	21,364	22,351	22,501	.	.	.	.	256,258
B-2	56,970	59,602	23,520	34,811	113,969	82,007	134,052	1,040,775
B-3	7,121	7,450	9,737	.	.	.	.	87,509
B-4	42,728	44,701	65,763	50,621	33,212	36,670	44,973	720,547
B-6	64,092	67,052	102,576	82,828	59,752	65,828	136,805	1,140,916
B-7	21,364	22,351	41,130	24,654	6,335	23,272	14,333	341,881
B-8	92,577	96,853	94,936	65,497	74,348	126,561	195,040	1,616,554
B-9	28,485	2,961	1,186	420	65,568	67,544	28,869	462,955
B-10	4,273	4,470	12,617	14	89	2,634	0	61,592
B-11	56,970	59,602	18,852	6,590	62,664	99,805	121,488	961,815
B-12	99,698	104,303	121,286	102,152	91,740	111,756	208,775	1,777,434
B-13	213,639	223,507	284,651	277,811	278,906	228,785	349,200	3,865,906
C-1	140	292	34	15	17	5	0	309,087
C-2	89,467	90,506	75,126	70,589	63,729	109,158	48,674	1,837,913
C-3	83,667	156,627	192,757	123,478	66,991	90,078	105	1,983,684
C-4	15,015	4,350	8,722	3,250	6,913	5,593	2,923	203,402
C-5	497,203	436,420	435,495	324,691	283,479	409,623	373,340	5,609,530
C-6	74,728	58,257	48,274	45,885	40,626	55,521	97,980	1,086,940
C-7	.	.	.	123,307	118,153	109,019	211,960	562,439
CSA-1	16030	19,310	20,080	16,556	20,470	19,418	10,234	208,139
Pinedale	375,000	380,000	430,000	480,000	.	.	.	2,880,000
Total	1,860,531	1,860,965	2,009,243	1,833,169	1,386,961	1,643,277	1,978,751	27,015,276