

Table 2-1. Proposed Alternatives for Evaluation in the EIS - Pumpage and Land Fallowed

					Projects Resulting in Cumulative Impacts				
	Total Pumpage (up to)	Exchange w/ Reclamation (up to)	Exchange with Others (acre-feet)	Land Fallowed (acres)	Adjacent Use (acre-feet)	City of Mendota (acre-feet)	Meyers Water Bank	Spreckels Sugar	Current Uses
Proposed Action									
Wet Year (2) ^a	0	0	0	0	14,000	2,000	Y	Y	Y
Normal Year (6)	31,600	25,000	6,600	0	14,000	2,000	Y	Y	Y
Dry Year (2)	40,000	25,000	15,000	0	14,000	2,000	Y	Y	Y
Well Construction in WWD and SLWD									
Pumpage To Pool (10) In WWD and SLWD	9,000	0	9,000	0	14,000	2,000	Y	Y	Y
Wet Year (2)	0	0	0						
Normal Year (6)	25,000	0	0						
Dry Year (2)	25,000	0	0						
Land Fallowing									
Pumpage To Pool (10) Land	9,000	0	9,000		14,000	2,000	Y	Y	Y
Wet Year (2)				0					
Normal Year (6)				10,000					
Dry Year (2)				10,000					

^aNumbers in parentheses indicate the number of years out of the 10 year project

Table 2-2. Typical Transfer Pumpage Program for a Normal Year

Location	Depth Zone	Mar (cfs)	Apr (cfs)	May (cfs)	Spring Total (af)	Jun (cfs)	Jul (cfs)	Aug (cfs)	Sep 1-15 (cfs)	Summer Total (af)	Sep 16-30 (cfs)	Oct (cfs)	Nov (cfs)	Fall Total (af)	Annual Total (af)
Fresno Slough (north)	Shallow	0.0	19.4	19.4	2,343	19.4	16.2	14.7	19.4	3,631	19.4	19.4	14.7	2,642	8,616
Fresno Slough (south)	Shallow	0.0	18.2	25.9	2,675	23.4	29.9	26.7	18.3	5,234	19.5	20.6	10.6	2,475	10,385
Fresno Slough (north)	Deep	0.0	7.5	6.8	860	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	860
Fresno Slough (south)	Deep	0.0	0.0	3.3	250	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0	205
Farmers Water District (incl. Baker and PCF Wells)	Deep	0.0	32.2	39.5	4,463	23.6	0.0	0.0	0.0	1,405	42.0	39.8	23.0	5,066	10,934
Total Deep Pumpage		0.0	41.6	49.6	5,528	23.6	0.0	0.0	0.0	1,405	42.0	39.8	23.0	5,066	12,000
Total Transfer Pumpage		0.0	79.2	94.9	10,547	66.4	43.1	41.4	37.7	10,270	80.8	79.7	48.3	10,183	31,000

Table 2-3. Mendota Pool Group Wells - Capacities, Water Quality, Use in 2002

Well Owner and ID	Depth Zone	Capacity (cfs)	Water Quality						Water Use in 2002
			EC (µmhos/cm)	TDS (mg/L)	As (µg/L)	B (mg/L)	Mo (µg/L)	Se (µg/L)	
Fordel, Inc.									
M-1	D	2.5	1,200	730	<2	0.56	9	<0.4	Idle
M-2	S	1.1	1,150	730	2	0.36	10	<0.4	Transfer
M-3	S	2.0	1,160	730	3	0.51	10	<0.4	Transfer
M-4	S	1.8	1,250	760	3	0.52	5.65	<0.4	Transfer
M-5	S	1.9	769	480	<2	0.35	4.55	<0.4	Transfer
M-6	S	1.4	629	390	<2	0.27	3	<0.4	Transfer
Fordel/Biomass	D	6.6	1,350	-	-	-	-	-	Idle
Terra Linda Farms									
TL-1	D	1.8	877	-	-	-	-	-	Adjacent
TL-2	D	1.8	1,440	-	-	-	-	-	Idle
TL-3	D	2.8	733	450	<2	0.35	5.53	<0.4	Adjacent
TL-4A	S	1.6	935	570	<2	0.21	8.7	<0.4	Tran/Adj
TL-4C	S	1.6	1,090	670	<2	0.27	10	<0.4	Tran/Adj
TL-5	D	6.2	1,530	900	<2	0.55	9	<0.4	Adjacent
TL-6	D	3.7	4,040	-	-	-	-	-	Idle
TL-7	D	3.6	1,140	680	<2	0.52	9.35	<0.4	Adjacent
TL-8	D	3.6	1,110	690	<2	0.56	10.7	<0.4	Tran/Adj
TL-10A	S	1.2	896	560	<2	0.26	10.6	<0.4	Transfer
TL-10B	S	1.0	989	580	3	0.25	10.2	<0.4	Transfer
TL-10C	S	0.7	882	540	6	0.29	13.0	<0.4	Transfer
TL-11	S	0.4	774	450	<2	0.28	13.7	<0.4	Transfer
TL-12	S	1.6	769	460	<2	0.28	7.25	<0.4	Transfer
TL-13	S	2.2	752	450	<2	0.26	4	<0.4	Tran/Adj
TL-14	S	1.8	1,030	620	<2	0.25	10	<0.4	Tran/Adj
TL-15	S	1.3	955	560	<2	0.28	10	<0.4	Tran/Adj
TL-16	S	1.3	921	550	<2	0.22	6.85	<0.4	Tran/Adj
TL-17	S	2.0	689	390	3	0.23	4	<0.4	Tran/Adj
Coelho/Coelho									
Conejo West	D	6.8	1,470	870	<2	0.7	-	5*	Transfer
Coelho/Coehlho/Fordel									
CCF-1	D	7.5	1,740	1,040	<2	0.62	8	<0.4	Idle
CCF-2	D	-	-	-	-	-	-	-	Idle
Silver Creek Packing									
SC-2	D	-	-	-	-	-	-	-	Idle
SC-3	D	-	-	-	-	-	-	-	Idle
SC-4	D	2.0	-	-	-	-	-	-	Idle
SC-5	D	4.0	3,970	2,140	<2	1.11	7	<0.4	Idle
SC-6	D	3.3	2,770	1,560	<2	0.72	5	<0.4	Transfer
SC-7	D	1.7	-	-	-	-	-	-	Idle
Coelho/Gardner/Hanson									
CGH-1	S	2.5	944	580	<2	0.3	4.93	<0.4	Tran/Adj
CGH-2	S	2.2	1,900	1,160	<2	0.37	6.13	<0.4	Tran/Adj
CGH-3	S	1.1	2,940	1,820	<2	0.48	8.07	<0.4	Idle
CGH-4	S	0.6	4,250	2,620	<2	0.98	16.0	<0.4	Idle
CGH-5	S	1.0	3,290	-	<2	0.7	-	<1	Idle
CGH-6A	S	1.7	2,910	1,740	<2	0.78	20	<0.4	Transfer
CGH-7	D	1.6	2,000	-	-	-	-	-	Tran/Adj
CGH-8	S	1.7	1,710	-	-	-	-	-	Tran/Adj
CGH-9	S	1.2	1,720	1,070	<2	0.39	11.1	<0.4	Tran/Adj
CGH-10	S	1.8	1,320	830	<2	0.35	13.0	<0.4	Tran/Adj

Table 2-3. Mendota Pool Group Wells - Capacities, Water Quality, Use in 2002

Well Owner and ID	Depth Zone	Capacity (cfs)	Water Quality						Water Use in 2002
			EC (µmhos/cm)	TDS (mg/L)	As (µg/L)	B (mg/L)	Mo (µg/L)	Se (µg/L)	
CGH-11	S	1.3	2,750	1,720	<2	0.57	13.9	<0.4	Tran/Adj
Meyers Farming									
MS-1A	S	1.8	6,570	4,410	<2	1.12	15.4	<0.4	Idle
MS-2	S	1.3	5,000	3,050	<2	0.69	21.3	<0.4	Idle
MS-3	S	2.9	3,860	2,290	<2	0.65	25.9	<0.4	Idle
MS-4	S	2.6	2,730	1,740	<2	1.00	40.7	<0.4	Tran/Adj
MS-5	D	4.0	3,130	1,820	<2	0.83	18	<0.4	Idle
Five Star/Conejo Farms									
FS-1	S	0.8	1,030	590	<2	0.36	18	<0.4	Transfer
FS-2	S	0.8	1,190	740	<2	0.36	13.90	<0.4	Transfer
FS-3	S	0.8	1,930	1,200	<2	0.5	24	<0.4	Transfer
FS-4	S	0.8	1,740	1,060	<2	0.5	24.0	<0.4	Transfer
FS-5	S	0.8	1,040	640	<2	0.37	11.2	<0.4	Transfer
FS-6	S	0.8	2,340	1,390	<2	0.52	23.2	<0.4	Transfer
FS-7	S	0.8	2,500	1,600	<2	0.53	17.7	<0.4	Transfer
FS-8	S	0.8	2,240	1,310	<2	0.6	19.0	<0.4	Transfer
FS-9	S	0.8	2,090	1,290	<2	0.56	17.6	<0.4	Transfer
FS-10	S	0.8	1,400	910	<2	0.42	10	<0.4	Transfer
Coelho West									
CW-1	S	0.9	1,280	780	<2	0.44	13.5	<0.4	Transfer
CW-2	S	0.9	1,780	1,100	<2	0.61	30.5	<0.4	Transfer
CW-3	S	0.9	1,710	1,050	<2	0.51	30	<0.4	Transfer
CW-4	S	0.9	2,780	1,730	<2	0.85	59.5	<0.4	Idle
CW-5	S	0.9	2,630	1,620	<2	0.7	60	<0.4	Transfer
Farmers Water District									
R-1	D	2.5	444	290	<2	0.09	5	<0.4	Tran/Adj
R-2	D	4.0	458	270	<2	0.05	2.00	<0.4	Transfer
R-3	D	2.5	776	460	<2	0.09	1.40	<0.4	Tran/Adj
R-4	D	3.3	252	180	3	0.08	3.10	<0.4	Tran/Adj
R-6	D	3.1	558	350	<2	0.16	6.10	<0.4	Transfer
R-7	D	6.0	476	300	<2	<0.05	1.80	<0.4	Tran/Adj
R-8	D	4.7	587	340	<2	0.22	8.35	<0.4	Transfer
R-9	D	3.8	252**	-	-	-	-	-	Tran/Adj
R-10	D	3.3	810	510	<2	0.51	15.5	<0.4	Tran/Adj
R-11	D	3.1	739	470	<2	0.37	12	<0.4	Adjacent
Baker Farming Co.									
BF-1	D	4.0	497	300	<2	0.12	3.85	<0.4	Transfer
BF-2	D	1.7	497	300	<2	0.06	2	<0.4	Transfer
BF-3	D	3.6	511	310	<2	0.09	3.50	<0.4	Transfer
BF-4	D	3.3	539	310	<2	0.09	3.00	<0.4	Transfer
BF-5	D	4.2	462	300	<2	0.11	3.75	<0.4	Transfer
Panoche Creek Farms									
PCF-1	D	3.8	535	340	<2	0.15	3	<0.4	Transfer

D = deep, S = shallow

* Questionable Value.

** Value estimated based on nearby well R-4.

Table 2-4. Participants in Mendota Pool Monitoring Program

Responsible Entity:	Monitoring Component:
Mendota Pool Group	Bimonthly groundwater level measurements; continuous water level monitoring at two locations; groundwater quality of MPG wells, monitoring wells, and other wells not monitored by others; surface water grab samples; continuous EC recorder at MWA; sediment sampling; continuous compaction monitoring at Fordel extensometer; annual water budget; preparation of annual report
San Luis & Delta–Mendota Water Authority	Pumpage of MPG wells and other inflows to and outflows from the Pool, daily water budget and flow direction
San Joaquin River Exchange Contractors Water Authority	Pumpage and water quality in SJREC and participating agency’s wells; continuous EC recorders at canal intakes; continuous compaction and water level monitoring at Yearout extensometer; preparation of annual report
Newhall Land and Farming Co.	Pumpage, water quality, and groundwater levels in NLF wells; preparation of annual report
City of Mendota	Pumpage and water quality in its wells
Spreckels Sugar Co.	Pumpage, water quality, and groundwater levels in its wells

Table 2-5. Comparison of Proposed Alternatives. Cumulative volumes of water pumped and land fallowed for each alternative

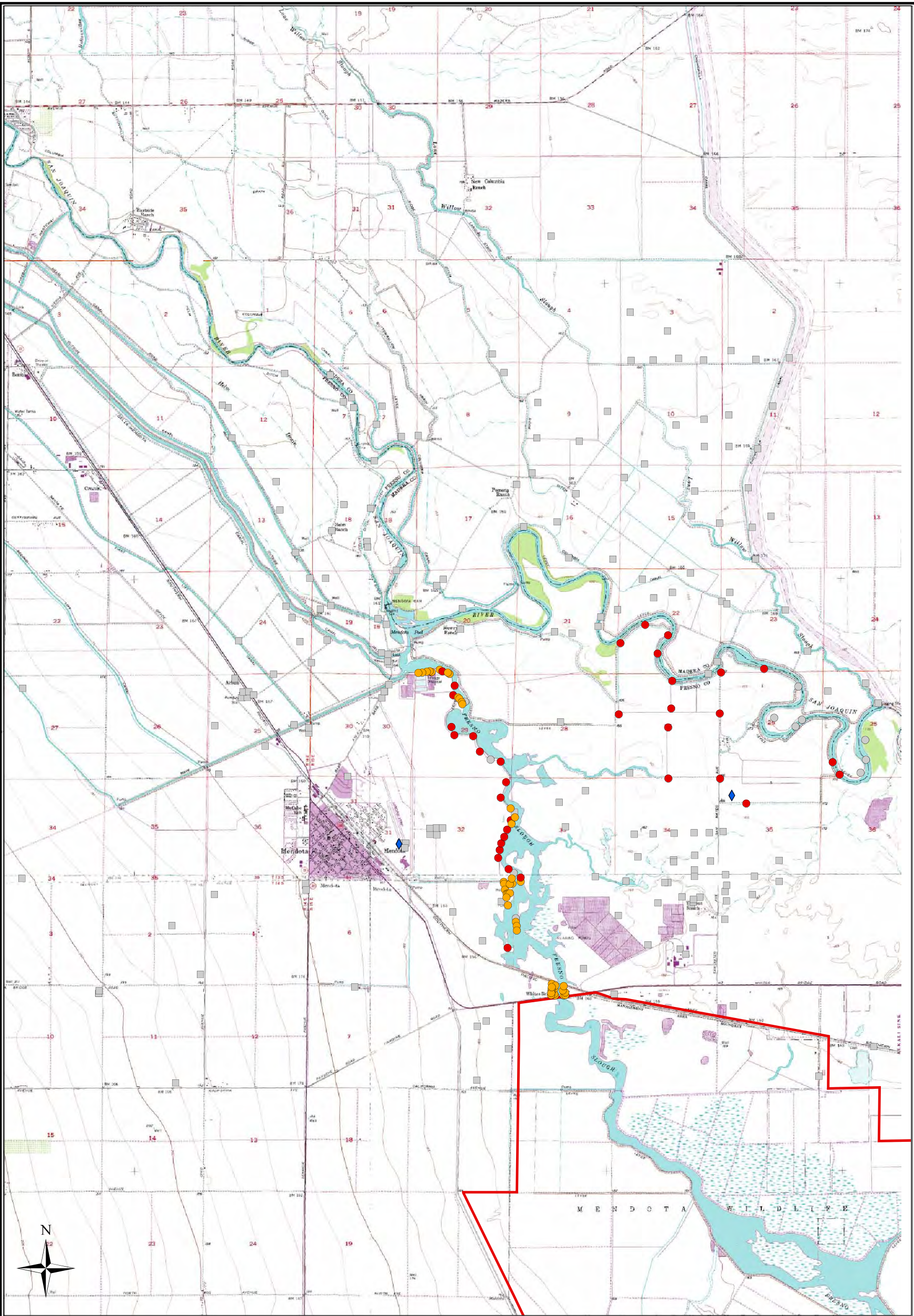
Parameter	Alternative		
	Proposed Action	Well Construction	Land Fallowing
Duration (years)	10	10	10
Total Volume of Water Pumped into Pool (acre-feet)	269,600	90,000	90,000
Total Volume Exchanged with Reclamation (acre-feet)	200,000	0	0
Total Volume Traded with Others (acre-feet)	69,600	90,000	90,000
Total Volume Pumped in WWD and SLWD (acre-feet)	0	200,000 ^a	0
# Existing Deep MPG Production Wells at Pool	35	35	35
# Existing Shallow MPG Production Wells at Pool	46	46	46
# New MPG Deep Production Wells in WWD and SLWD	0	55-125	0
# New MPG Shallow Production Wells in WWD and SLWD	0	0	0
Acres Fallowed per Year	0	0	10,000 ^b

^a25,000 acre-feet per year in 8 of 10 years

^b10,000 acres in 8 of 10 years

Table 2-6. Typical Adjacent Use Pumpage in a Normal Year

Location	Depth Zone	Feb (cfs)	Mar (cfs)	Apr (cfs)	May (cfs)	Spring Total (af)	Jun (cfs)	Jul (cfs)	Aug (cfs)	Sep 1-15 (cfs)	Summer Total (af)	Sep 16-30 (cfs)	Oct (cfs)	Nov (cfs)	Fall Total (af)	Annual Total (af)
Fresno Slough	Shallow	5.3	8.5	1.8	3.0	1,104	12.1	10.8	13.0	5.4	2,345	1.2	1.2	1.2	185	3,633
Fresno Slough	Deep	0.0	2.8	11.0	2.8	1,001	18.0	18.0	18.0	12.7	3,478	6.4	8.1	0.5	723	5,202
Farmers Water District (incl. Baker and PCF Wells)	Deep	0.0	4.9	9.6	8.5	1,396	12.3	13.6	13.6	12.7	2,782	12.0	6.0	4.4	987	5,165
Total Adjacent Pumpage		5.3	16.2	22.3	14.4	3,501	42.5	42.4	44.6	24.5	8,605	19.6	15.4	6.1	1,895	14,000



MPG Wells

- Other Well
- MPG Production Deep
- MPG Production Shallow
- MPG Unused

Extensometer

■ Mendota Wildlife Area

1:62,000

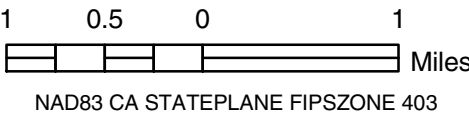


Figure 2-1
Mendota Pool Group
Wells