

Spare Capacity Analysis
2035 Demands plus current McClellan Demands
(McClellan current demands 721 AF)

2035 Demands with Current (721ac-ft) McClellan Demands
 excess Capacity Analysis

	Capacity			
	Wells	Max day	Storage	Peak hour
Service area	Total active well, gpm	Reliable well capacity ^a , gpm	Reliable Boosters ^{b,c} , gpm	Reliable well capacity plus storage boosters
South Service Area	49,195	44,276	4,500	48,776
North Service Area	49,195	44,276	19,000	63,276
Total System	98,390	88,551	23,500	112,051

^aTotal system and NSA and SSA reliable capacities are based on 10% reduction of total well capacity

^bSSA reliable storage booster capacity based on 4,500 gpm from Northrop/Enterprise tank to District.

^cNSA reliable storage booster capacity based on assumed 1,000gpm from current McClellan storage, 8,000 gpm from Antelope tank, 8,000 gpm from Watt/Elkhorn tank, and 1,000 gpm each from Walnut and Capehart elevated tanks.

Demands	2035 Demand plus current McClellan Demands
	Demand
	ac-ft/yr
	Demand
NSA	27,247
McClellan	721
SSA	16,594
total	44,562

**Excess Capacity Analysis
2035 Demands plus current McClellan Demands
(McClellan current demands 721 AF)**

NSA-excess capacity

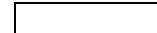
Month	Monthly max day demand			Monthly peak hour demand			Simulated excess capacity ^c - more in shoulder seasons - estimated relative monthly needs from others	
	Reliable well capacity ^a , gpm	Maximum monthly day demand, gpm	excess well capacity based on maximum monthly day demand, gpm	Reliable well capacity plus storage boosters ^a	Monthly peak hour demand	excess system capacity based on monthly peak hour demand	Flow rate, gpm	Volume, AF
January	39,848	10,215	29,633	55,848	18,233	37,615	0	0
February	39,848	9,553	30,295	55,848	17,053	38,795	15,147	1,874
March	39,848	11,751	28,097	55,848	20,975	34,873	22,721	3,112
April	44,276	13,184	31,092	60,276	23,533	36,743	23,319	3,091
May	44,276	15,150	29,125	60,276	27,043	33,233	21,844	2,992
June	44,276	28,032	16,243	60,276	50,038	10,238	10,238	1,357
July	44,276	30,629	13,646	60,276	58,952	1,324	1,324	181
August	44,276	26,153	18,123	60,276	46,683	13,593	13,593	1,862
September	44,276	23,365	20,911	60,276	41,706	18,570	18,570	2,462
October	39,848	16,273	23,575	55,848	29,046	26,801	17,682	2,422
November	39,848	13,282	26,566	55,848	23,709	32,139	14,611	1,937
December	39,848	10,019	29,829	55,848	17,883	37,965	0	0
Total								21,292

Assume monthly max day is 5% greater than average monthly day.

^aReliable well capacity based on 90% of total active well capacity. Reliable capacity is also reduced by 10% in winter month based on the assumption that some wells will not be available due maintenance.

^bPeak hour for July is limiting factor.

^cSimulated flow rate based on more needed by others in dry yr shoulder season



Excess Capacity Analysis
2035 Demands plus current McClellan Demands
(McClellan current demands 721 AF)

SSA-excess capacity

Month	Monthly max day demand			Monthly peak hour demand			Simulated excess capacity ^c - more in shoulder seasons - estimated relative monthly needs from others	
	Reliable well capacity ^a , gpm	Maximum monthly day demand, gpm	excess well capacity based on maximum monthly day demand, gpm	Reliable well capacity plus storage boosters ^a	Monthly peak hour demand	excess system capacity based on monthly peak hour demand	Flow rate ^b , gpm	Volume, AF
January	39,848	6,489	33,359	44,348	9,734	34,614	0	0
February	39,848	5,482	34,366	44,348	8,223	36,125	8,954	1,108
March	39,848	7,465	32,383	44,348	11,198	33,150	15,221	2,085
April	44,276	8,105	36,170	48,776	12,158	36,617	19,698	2,611
May	44,276	9,625	34,651	48,776	14,437	34,338	21,489	2,944
June	44,276	17,234	27,041	48,776	25,851	22,924	20,612	2,732
July	44,276	19,459	24,817	48,776	30,868	17,908	17,908	2,453
August	44,276	16,615	27,661	48,776	24,922	23,853	21,041	2,882
September	44,276	14,365	29,911	48,776	21,547	27,229	21,489	2,849
October	39,848	10,338	29,510	44,348	15,507	28,841	19,698	2,698
November	39,848	8,166	31,682	44,348	12,249	32,099	11,640	1,543
December	39,848	6,365	33,483	44,348	9,547	34,801	0	0
Total								23,906

Assume monthly max day is 5% greater than average monthly day.

^aReliable well capacity based on 90% of total active well capacity. Reliable capacity is also reduced by 10% in winter month based on the assumption that some wells will not be available due maintenance.

^bPeak hour for July is limiting factor.

^cSimulated flow rate based on more needed by others in dry yr shoulder season