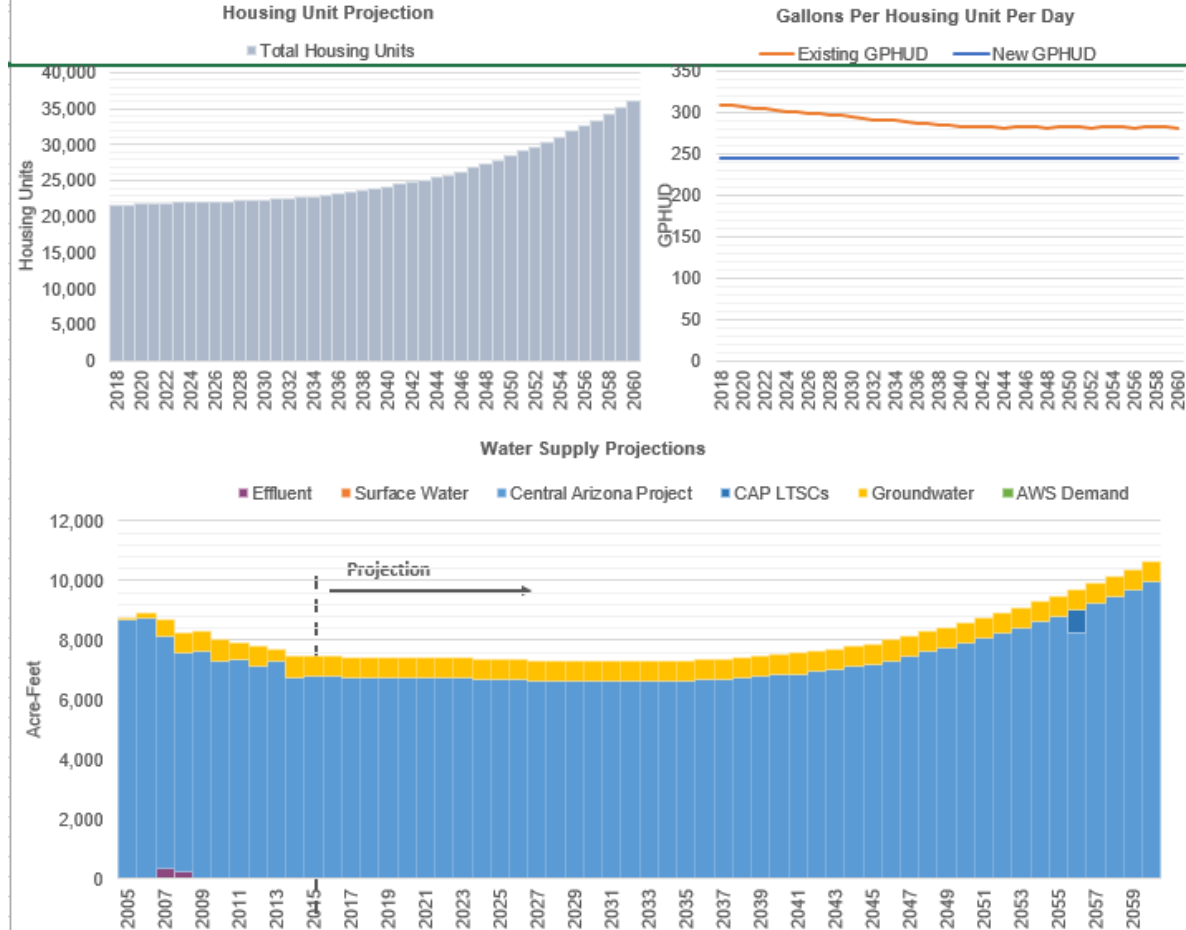


CAP:SAM Output for Metro Service Area (Main)

MetroMain

Central Arizona Project Service Area Model F. Rapid, Outward, Very Dry Climate [LSCRBS]



MetroMain

Central Arizona Project Service Area Model F. Rapid, Outward, Very Dry Climate [LSCRBS]

3/7/18 3:24 PM

Date	Demand Assumptions			Water Supply Projections (Acre-Feet)										Unknown
	Housing Units Total	GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater			
		Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-AWS	AWS		
2018	21,587	309	243	0	0	0	6,764	0	6,696	0	668	0	0	
2019	21,667	307	243	0	0	0	6,756	0	6,704	0	668	0	0	
2020	21,749	305	243	0	0	0	6,749	0	6,711	0	668	0	0	
2021	21,830	305	243	0	0	0	6,742	0	6,718	0	668	0	0	
2022	21,890	304	243	0	0	0	6,732	0	6,728	0	668	0	0	
2023	21,940	303	243	0	0	0	6,718	0	6,742	0	668	0	0	
2024	21,991	300	243	0	0	0	6,703	0	6,757	0	668	0	0	
2025	22,044	300	243	0	0	0	6,688	0	6,772	0	668	0	0	
2026	22,097	299	243	0	0	0	6,674	0	6,786	0	668	0	0	
2027	22,151	298	243	0	0	0	6,660	0	6,800	0	668	0	0	
2028	22,207	296	243	0	0	0	6,647	0	6,813	0	668	0	0	
2029	22,264	295	243	0	0	0	6,634	0	6,826	0	668	0	0	
2030	22,322	294	243	0	0	0	6,621	0	6,839	0	668	0	0	
2031	22,419	293	243	0	0	0	6,614	0	6,846	0	668	0	0	
2032	22,541	291	243	0	0	0	6,617	0	6,843	0	668	0	0	
2033	22,665	291	243	0	0	0	6,622	0	6,838	0	668	0	0	
2034	22,792	289	243	0	0	0	6,628	0	6,832	0	668	0	0	
2035	22,973	288	243	0	0	0	6,643	0	6,817	0	668	0	0	
2036	23,206	286	243	0	0	0	6,673	0	6,787	0	668	0	0	
2037	23,445	286	243	0	0	0	6,709	0	6,751	0	668	0	0	
2038	23,689	285	243	0	0	0	6,747	0	6,480	0	668	0	0	
2039	23,950	284	243	0	0	0	6,789	0	4,306	0	668	0	0	
2040	24,222	282	243	0	0	0	6,837	0	6,146	0	668	0	0	
2041	24,503	281	243	0	0	0	6,883	0	6,577	0	668	0	0	
2042	24,802	281	243	0	0	0	6,954	0	6,506	0	668	0	0	
2043	25,109	281	243	0	0	0	7,037	0	6,423	0	668	0	0	
2044	25,436	280	243	0	0	0	7,126	0	6,334	0	668	0	0	
2045	25,774	281	243	0	0	0	7,214	0	6,246	0	668	0	0	
2046	26,268	281	243	0	0	0	7,327	0	6,133	0	668	0	0	
2047	26,856	281	243	0	0	0	7,475	0	5,985	0	668	0	0	
2048	27,378	280	243	0	0	0	7,631	0	5,829	0	668	0	0	
2049	27,913	281	243	0	0	0	7,770	0	5,690	0	668	0	0	
2050	28,507	281	243	0	0	0	7,924	0	5,536	0	668	0	0	
2051	29,124	281	243	0	0	0	8,089	0	5,371	0	668	0	0	
2052	29,757	280	243	0	0	0	8,266	0	4,416	0	668	0	0	
2053	30,416	281	243	0	0	0	8,436	0	4,246	0	668	0	0	
2054	31,140	281	243	0	0	0	8,625	0	2,540	0	668	0	0	
2055	31,882	281	243	0	0	0	8,824	0	1,173	0	668	0	0	
2056	32,645	280	243	0	0	0	8,247	0	0	791	668	0	0	
2057	33,427	281	243	0	0	0	9,240	0	1,925	0	668	0	0	
2058	34,264	281	243	0	0	0	9,461	0	2,287	0	668	0	0	
2059	35,149	281	243	0	0	0	9,696	0	1,819	0	668	0	0	
2060	36,057	280	243	0	0	0	9,951	0	1,564	0	668	0	0	

Example of Simulated Pumping File

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
Provider				Simulation Years																				
Metro Main				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Well Registry	Cadastral	Lat/Lon	Name																					
55-206180	NW NE NE 28 12.0S 13.0E		Tucson National W2	383	383	383	384	382	257	253	250	186	183	119	116	113	110	107	104	101	98	97	97	97
55-215971	NE SW NW 15 13.0S 13.0E		Riverside Crossing	768	768	769	769	766	514	508	502	373	367	238	232	226	220	215	208	202	196	195	195	195
55-220610	NW NW NW 34 12.0S 13.0E		Old Magee Trail	80	80	80	80	80	54	53	52	39	38	25	24	24	23	22	22	21	20	20	20	20
55-501604	SW SW NW 33 12.0S 13.0E		Meredith	389	389	389	389	388	260	257	254	189	186	120	117	115	112	109	105	102	99	99	99	99
55-509074	NW NW NW 27 12.0S 13.0E		Tucson National East	544	544	544	545	543	364	360	355	264	260	168	164	160	156	152	148	143	139	138	138	138
55-590051	NW NW SE 33 12.0S 13.0E		Mona Lisa	324	324	325	325	324	217	215	212	157	155	101	98	96	93	91	88	85	83	82	82	82
55-619950	NW SE SW 26 12.0S 13.0E		Wanda	250	250	251	251	250	168	166	164	122	120	78	76	74	72	70	68	66	64	64	64	64
55-620988	SE SE SW 9 13.0S 13.0E		Moore	34	34	34	34	34	23	22	22	16	16	10	10	10	10	9	9	9	9	9	9	9
55-626732	SW SW SW 23 12.0S 13.0E		Hardy	288	288	288	288	287	193	190	188	140	137	89	87	85	83	80	78	76	73	73	73	73
55-626734	SE NE SE 9 13.0S 13.0E		Oracle Jaynes 1	335	335	335	335	334	224	221	219	162	160	104	101	99	96	94	91	88	85	85	85	85
55-626735	SW NE NW 14 13.0S 13.0E		Escondido	231	231	231	231	230	155	153	151	112	110	72	70	68	66	65	63	61	59	59	59	59
55-626737	SE SE SE 28 12.0S 13.0E		Magee/La Cholla	594	594	594	595	593	398	393	388	288	284	184	179	175	170	166	161	156	152	151	151	151
55-626738	SW SE NW 8 13.0S 13.0E		Latamore North	33	33	33	33	33	22	22	22	16	16	10	10	10	10	9	9	9	9	8	8	8
55-626745	SW NE SW 32 12.0S 13.0E		Marlene	299	299	299	299	298	200	197	195	145	143	92	90	88	86	83	81	79	76	76	76	76
55-626747	SW SE NE 14 13.0S 13.0E		Cresta Loma 2	122	122	122	122	121	81	80	79	59	58	38	37	36	35	34	33	32	31	31	31	31
55-626748	NW SW SW 32 12.0S 13.0E		Thornydale	25	25	25	26	25	17	17	17	12	12	8	8	7	7	7	7	7	7	6	6	6
55-626750	SE NW SW 11 13.0S 13.0E		Las Palmas West	29	29	29	29	29	19	19	19	14	14	9	9	9	8	8	8	8	7	7	7	7
55-626752	SE SE SE 21 12.0S 13.0E		Tucson National North	3	3	3	3	3	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1
55-626754	SE SE SW 32 12.0S 13.0E		Ina/CDO	48	48	48	48	48	32	32	31	23	23	15	14	14	14	13	13	13	12	12	12	12
55-626758	NE SE NE 8 13.0S 13.0E		Wildwood	594	594	595	595	593	398	393	388	288	284	184	179	175	171	166	161	156	152	151	151	151
55-626759	NW SW NW 5 13.0S 13.0E		Horizon Hills	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55-626760	NE NE SE 32 12.0S 13.0E		Alcott	243	243	243	243	242	162	160	158	118	116	75	73	71	70	68	66	64	62	62	62	62
55-626761	NE NE NE 22 12.0S 13.0E		New Linda Vista	628	628	629	629	627	421	415	410	305	300	195	190	185	180	176	170	165	160	159	159	160
55-626762	SW SE NW 8 13.0S 13.0E		Latamore South	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55-626739	SW SW NW 9 13.0S 13.0E		Deconcini	497	497	497	497	497	497	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
55-626757	NE SE SE 8 13.0S 13.0E		South Shannon	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668
55-XXXXX1	SW 12S 11E		RW-001	0	0	0	0	0	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
55-XXXXX2	SW 12S 11E		RW-002	0	0	0	0	0	1000	1000	1000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
55-XXXXX3	SW 12S 11E		RW-003	0	0	0	0	0	0	0	0	0	0	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Provider Total Sum				7410	7410	7415	7420	7396	7345	7297	7246	7197	7149	7102	7054	7007	6960	6913	6862	6812	6762	6752	6753	6754

Summary

- These inputs represent a worse possible case for this study as a book end for comparison to other scenarios.
- Assumptions had to be made in the demand calculations for all scenarios that tend to skew pumpage in some areas that probably won't happen.
- Example: There will be no rapid outward growth for Metro Main; build out will probably occur in the near future period.
- Example: Pumpage in some service areas exceed the current Assured Water Supply designations for those water providers.
- Results from this scenario could trigger deeper and more serious thought to adaptation strategies such as, land use planning, reuse in dispersed treatment infrastructure, sizing of renewable water supply infrastructure...