

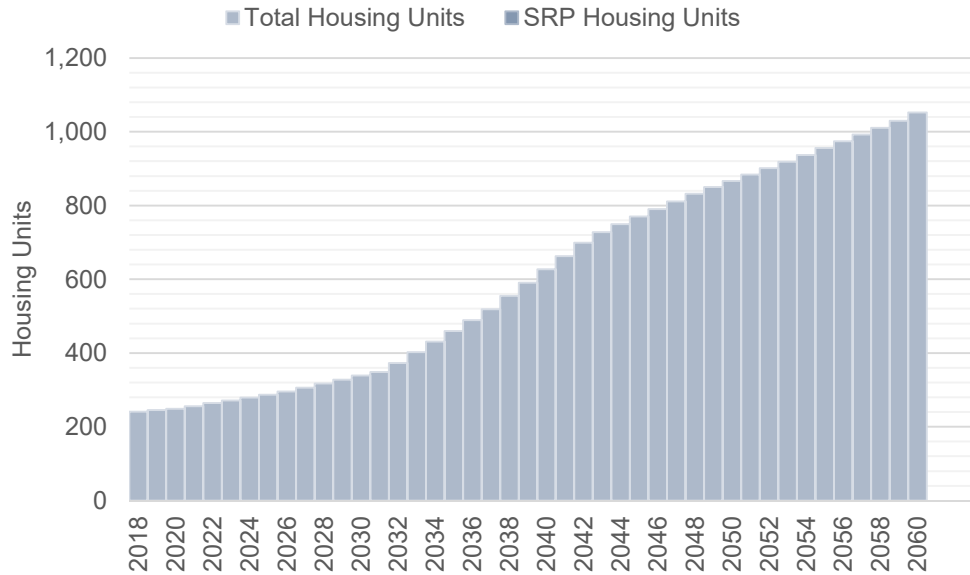
CasaGrande

Central Arizona Project Service Area Model

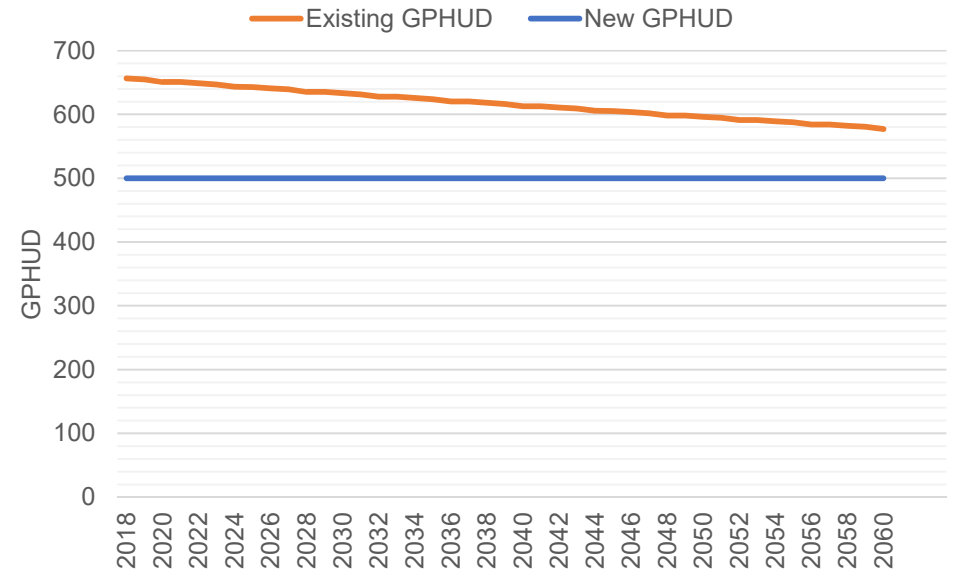
A. Highest Demand [EMSBS]

High growth rate, spillover (suburban) growth pattern, hotter and drier climate, unlimited Ag pumping capacity

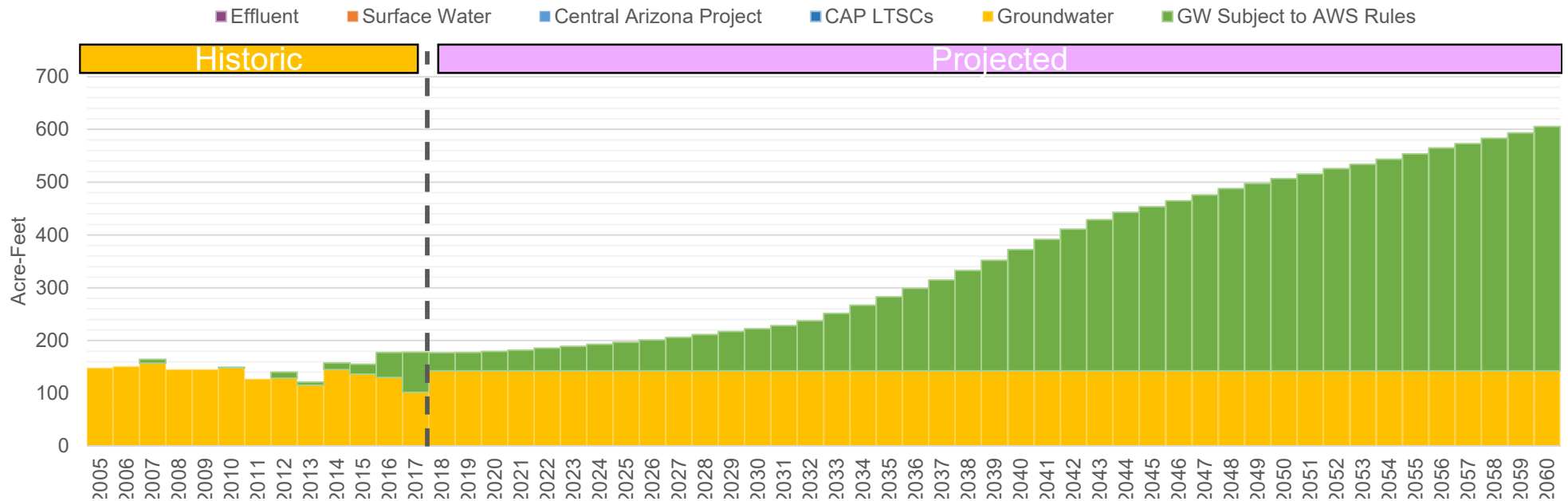
Housing Unit Projection



Gallons Per Housing Unit Per Day



Water Supply Projections



Central Arizona Project Service Area Model

A. Highest Demand [EMSBS]

10/21/19 1:35 PM

Demand Assumptions					Water Supply Projections (Acre-Feet)									
Date	Housing Units		GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater		Unknown
	Total	SRP	Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-Repl.	Replenished	
2018	241	0	657	500	0	0	0	0	0	0	0	142	34	0
2019	245	0	655	500	0	0	0	0	0	0	0	142	35	0
2020	249	0	651	500	0	0	0	0	0	0	0	142	37	0
2021	256	0	651	500	0	0	0	0	0	0	0	142	40	0
2022	264	0	649	500	0	0	0	0	0	0	0	142	43	0
2023	271	0	647	500	0	0	0	0	0	0	0	142	47	0
2024	279	0	643	500	0	0	0	0	0	0	0	142	51	0
2025	287	0	643	500	0	0	0	0	0	0	0	142	55	0
2026	296	0	641	500	0	0	0	0	0	0	0	142	59	0
2027	306	0	639	500	0	0	0	0	0	0	0	142	64	0
2028	317	0	635	500	0	0	0	0	0	0	0	142	69	0
2029	328	0	635	500	0	0	0	0	0	0	0	142	75	0
2030	339	0	633	500	0	0	0	0	0	0	0	142	80	0
2031	349	0	631	500	0	0	0	0	0	0	0	142	86	0
2032	373	0	628	500	0	0	0	0	0	0	0	142	95	0
2033	402	0	628	500	0	0	0	0	0	0	0	142	109	0
2034	431	0	626	500	0	0	0	0	0	0	0	142	125	0
2035	460	0	624	500	0	0	0	0	0	0	0	142	140	0
2036	489	0	620	500	0	0	0	0	0	0	0	142	157	0
2037	519	0	620	500	0	0	0	0	0	0	0	142	172	0
2038	555	0	618	500	0	0	0	0	0	0	0	142	190	0
2039	591	0	616	500	0	0	0	0	0	0	0	142	210	0
2040	627	0	613	500	0	0	0	0	0	0	0	142	230	0
2041	663	0	613	500	0	0	0	0	0	0	0	142	249	0
2042	699	0	611	500	0	0	0	0	0	0	0	142	269	0
2043	728	0	609	500	0	0	0	0	0	0	0	142	287	0
2044	749	0	606	500	0	0	0	0	0	0	0	142	301	0
2045	770	0	605	500	0	0	0	0	0	0	0	142	311	0
2046	790	0	604	500	0	0	0	0	0	0	0	142	322	0
2047	811	0	602	500	0	0	0	0	0	0	0	142	333	0
2048	832	0	598	500	0	0	0	0	0	0	0	142	345	0
2049	850	0	598	500	0	0	0	0	0	0	0	142	355	0
2050	867	0	596	500	0	0	0	0	0	0	0	142	364	0
2051	884	0	595	500	0	0	0	0	0	0	0	142	373	0
2052	901	0	591	500	0	0	0	0	0	0	0	142	383	0
2053	919	0	591	500	0	0	0	0	0	0	0	142	392	0
2054	937	0	589	500	0	0	0	0	0	0	0	142	401	0
2055	956	0	588	500	0	0	0	0	0	0	0	142	411	0
2056	974	0	584	500	0	0	0	0	0	0	0	142	422	0
2057	992	0	584	500	0	0	0	0	0	0	0	142	431	0
2058	1,011	0	582	500	0	0	0	0	0	0	0	142	441	0
2059	1,030	0	581	500	0	0	0	0	0	0	0	142	451	0
2060	1,052	0	577	500	0	0	0	0	0	0	0	142	463	0

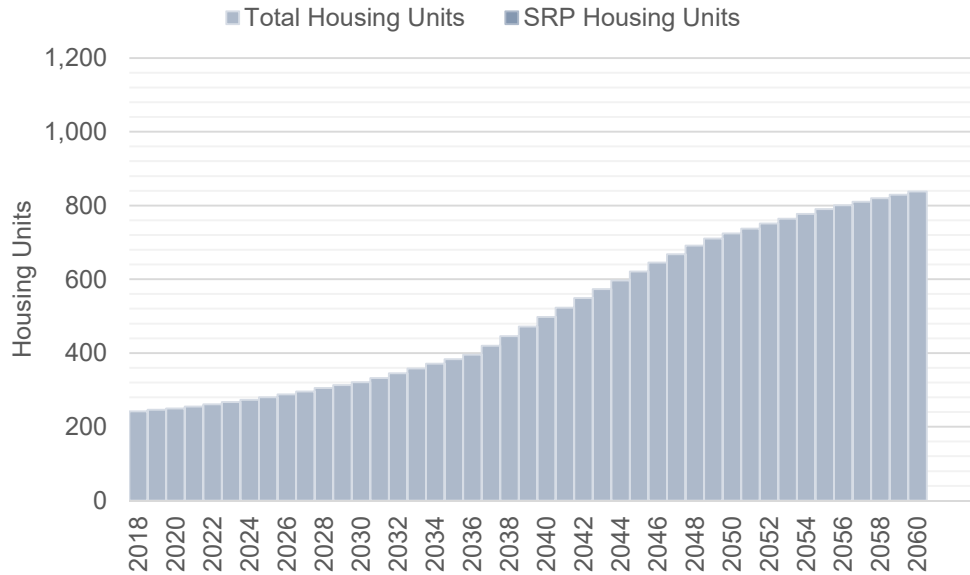
CasaGrande

Central Arizona Project Service Area Model

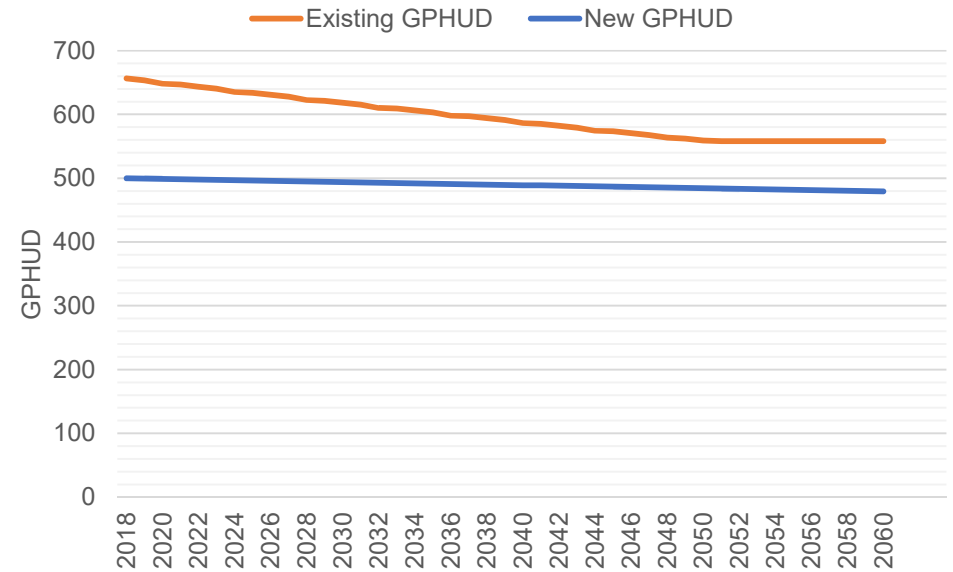
B. Having it All [EMSBS]

Medium growth rate, local growth pattern, hotter and drier climate, unlimited Ag pumping capacity

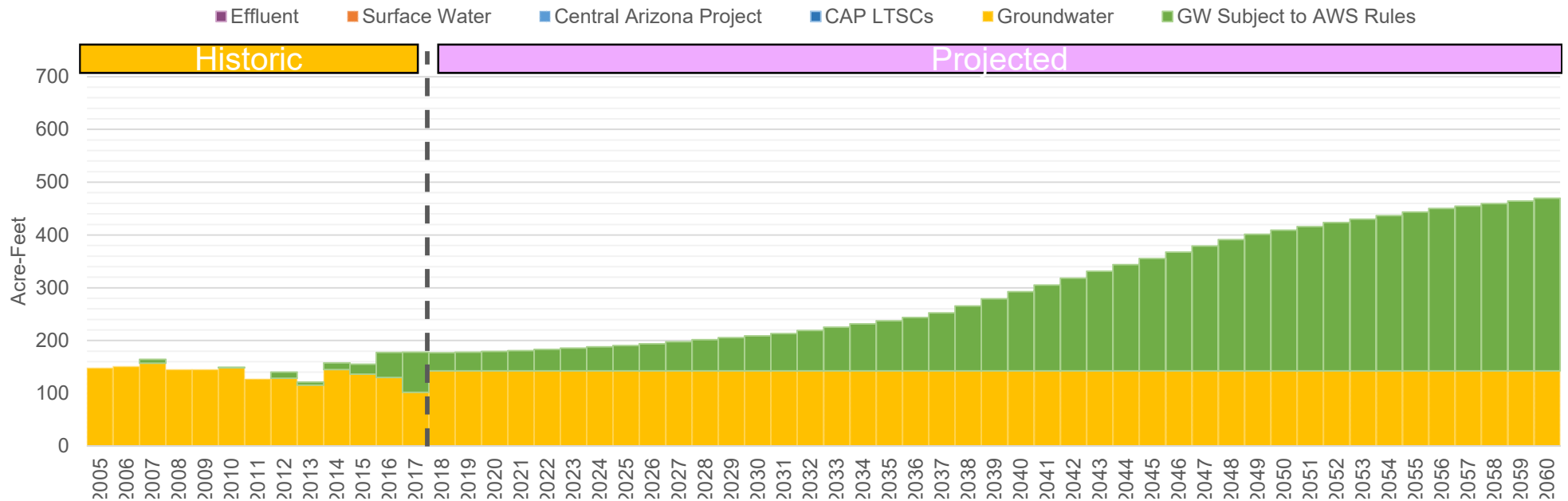
Housing Unit Projection



Gallons Per Housing Unit Per Day



Water Supply Projections



Central Arizona Project Service Area Model

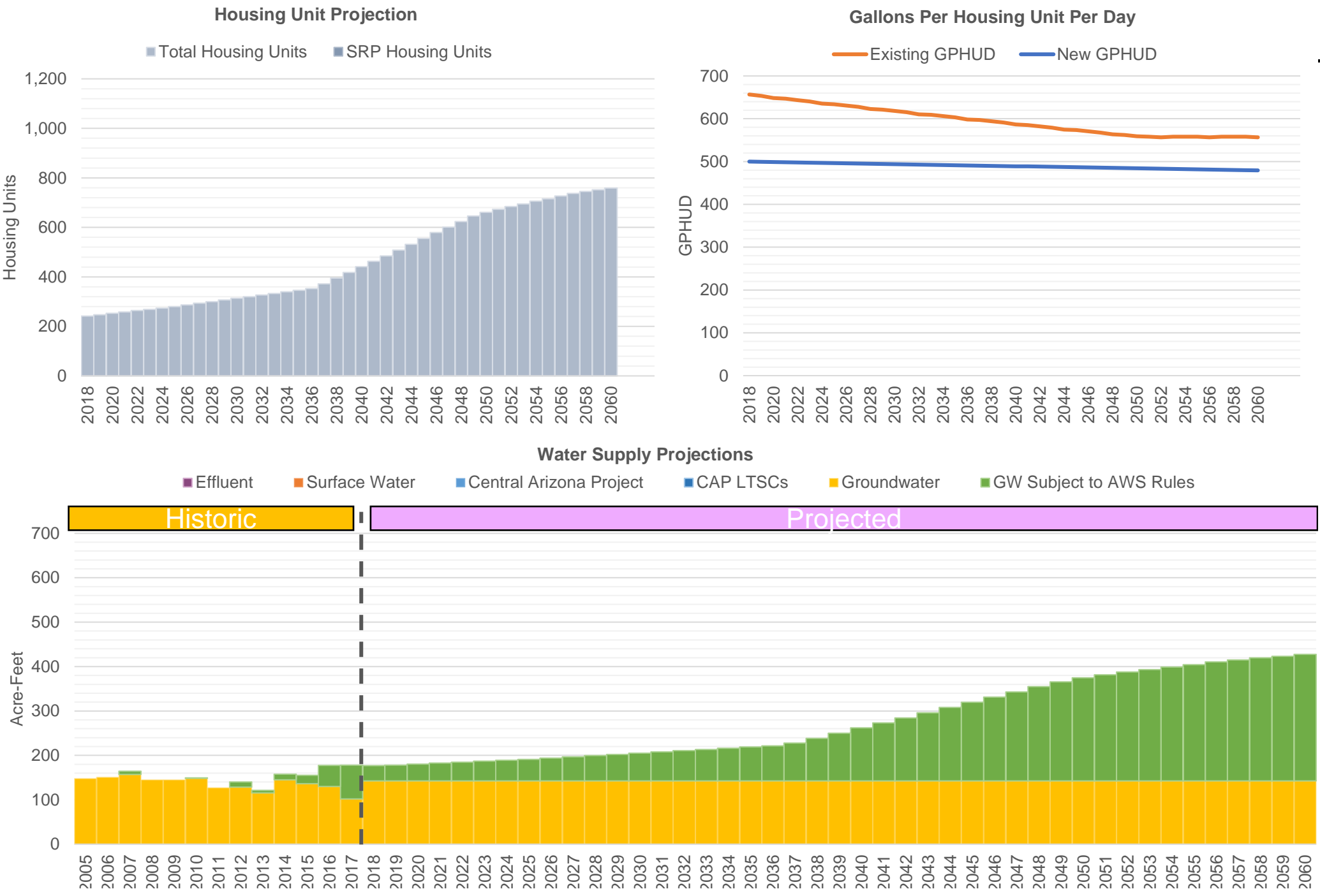
B. Having it All [EMSBS]

10/21/19 3:32 PM

Demand Assumptions					Water Supply Projections (Acre-Feet)									
Date	Housing Units		GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater		Unknown
	Total	SRP	Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-Repl.	Replenished	
2018	242	0	657	500	0	0	0	0	0	0	0	142	35	0
2019	246	0	653	500	0	0	0	0	0	0	0	142	35	0
2020	250	0	648	499	0	0	0	0	0	0	0	142	37	0
2021	255	0	647	499	0	0	0	0	0	0	0	142	38	0
2022	261	0	644	498	0	0	0	0	0	0	0	142	41	0
2023	267	0	640	498	0	0	0	0	0	0	0	142	43	0
2024	273	0	635	497	0	0	0	0	0	0	0	142	46	0
2025	280	0	634	497	0	0	0	0	0	0	0	142	48	0
2026	288	0	631	496	0	0	0	0	0	0	0	142	52	0
2027	296	0	628	496	0	0	0	0	0	0	0	142	55	0
2028	305	0	623	495	0	0	0	0	0	0	0	142	59	0
2029	313	0	621	495	0	0	0	0	0	0	0	142	63	0
2030	321	0	618	494	0	0	0	0	0	0	0	142	66	0
2031	332	0	615	494	0	0	0	0	0	0	0	142	71	0
2032	345	0	610	493	0	0	0	0	0	0	0	142	77	0
2033	358	0	609	493	0	0	0	0	0	0	0	142	83	0
2034	371	0	606	492	0	0	0	0	0	0	0	142	89	0
2035	383	0	603	492	0	0	0	0	0	0	0	142	95	0
2036	395	0	598	491	0	0	0	0	0	0	0	142	101	0
2037	420	0	597	491	0	0	0	0	0	0	0	142	110	0
2038	446	0	594	490	0	0	0	0	0	0	0	142	123	0
2039	472	0	591	490	0	0	0	0	0	0	0	142	137	0
2040	498	0	586	489	0	0	0	0	0	0	0	142	150	0
2041	523	0	585	489	0	0	0	0	0	0	0	142	163	0
2042	549	0	582	488	0	0	0	0	0	0	0	142	176	0
2043	573	0	579	488	0	0	0	0	0	0	0	142	189	0
2044	597	0	575	487	0	0	0	0	0	0	0	142	201	0
2045	621	0	574	487	0	0	0	0	0	0	0	142	213	0
2046	645	0	571	486	0	0	0	0	0	0	0	142	225	0
2047	668	0	568	486	0	0	0	0	0	0	0	142	237	0
2048	691	0	563	485	0	0	0	0	0	0	0	142	249	0
2049	710	0	562	485	0	0	0	0	0	0	0	142	259	0
2050	724	0	559	484	0	0	0	0	0	0	0	142	267	0
2051	737	0	558	484	0	0	0	0	0	0	0	142	273	0
2052	751	0	558	483	0	0	0	0	0	0	0	142	281	0
2053	764	0	558	483	0	0	0	0	0	0	0	142	287	0
2054	777	0	558	482	0	0	0	0	0	0	0	142	294	0
2055	790	0	558	482	0	0	0	0	0	0	0	142	301	0
2056	801	0	558	481	0	0	0	0	0	0	0	142	308	0
2057	810	0	558	481	0	0	0	0	0	0	0	142	312	0
2058	820	0	558	480	0	0	0	0	0	0	0	142	317	0
2059	829	0	558	480	0	0	0	0	0	0	0	142	322	0
2060	838	0	558	479	0	0	0	0	0	0	0	142	327	0

Central Arizona Project Service Area Model
C. Medium, Strong Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, unlimited Ag pumping capacity. Pairwise comparison to Scenario D.



Central Arizona Project Service Area Model

C. Medium, Strong Ag [EMSBS]

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Demand Assumptions					Water Supply Projections (Acre-Feet)									
Date	Housing Units		GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater		Unknown
	Total	SRP	Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-Repl.	Replenished	
2018	242	0	657	500	0	0	0	0	0	0	0	142	35	0
2019	247	0	653	500	0	0	0	0	0	0	0	142	36	0
2020	253	0	648	499	0	0	0	0	0	0	0	142	38	0
2021	258	0	647	499	0	0	0	0	0	0	0	142	40	0
2022	264	0	644	498	0	0	0	0	0	0	0	142	42	0
2023	269	0	640	498	0	0	0	0	0	0	0	142	45	0
2024	274	0	635	497	0	0	0	0	0	0	0	142	46	0
2025	280	0	634	497	0	0	0	0	0	0	0	142	49	0
2026	287	0	631	496	0	0	0	0	0	0	0	142	51	0
2027	294	0	628	496	0	0	0	0	0	0	0	142	54	0
2028	300	0	623	495	0	0	0	0	0	0	0	142	57	0
2029	307	0	621	495	0	0	0	0	0	0	0	142	60	0
2030	314	0	618	494	0	0	0	0	0	0	0	142	63	0
2031	320	0	615	494	0	0	0	0	0	0	0	142	66	0
2032	327	0	610	493	0	0	0	0	0	0	0	142	68	0
2033	333	0	609	493	0	0	0	0	0	0	0	142	71	0
2034	340	0	606	492	0	0	0	0	0	0	0	142	74	0
2035	346	0	603	492	0	0	0	0	0	0	0	142	76	0
2036	353	0	598	491	0	0	0	0	0	0	0	142	79	0
2037	372	0	597	491	0	0	0	0	0	0	0	142	85	0
2038	395	0	594	490	0	0	0	0	0	0	0	142	96	0
2039	418	0	591	490	0	0	0	0	0	0	0	142	108	0
2040	441	0	586	489	0	0	0	0	0	0	0	142	120	0
2041	463	0	585	489	0	0	0	0	0	0	0	142	131	0
2042	485	0	582	488	0	0	0	0	0	0	0	142	142	0
2043	508	0	579	488	0	0	0	0	0	0	0	142	153	0
2044	532	0	575	487	0	0	0	0	0	0	0	142	166	0
2045	555	0	574	487	0	0	0	0	0	0	0	142	177	0
2046	579	0	571	486	0	0	0	0	0	0	0	142	189	0
2047	601	0	568	486	0	0	0	0	0	0	0	142	201	0
2048	624	0	563	485	0	0	0	0	0	0	0	142	212	0
2049	646	0	562	485	0	0	0	0	0	0	0	142	223	0
2050	661	0	559	484	0	0	0	0	0	0	0	142	232	0
2051	673	0	558	484	0	0	0	0	0	0	0	142	239	0
2052	684	0	557	483	0	0	0	0	0	0	0	142	246	0
2053	695	0	558	483	0	0	0	0	0	0	0	142	251	0
2054	706	0	558	482	0	0	0	0	0	0	0	142	256	0
2055	716	0	558	482	0	0	0	0	0	0	0	142	262	0
2056	727	0	557	481	0	0	0	0	0	0	0	142	268	0
2057	737	0	558	481	0	0	0	0	0	0	0	142	273	0
2058	745	0	558	480	0	0	0	0	0	0	0	142	277	0
2059	752	0	558	480	0	0	0	0	0	0	0	142	281	0
2060	759	0	557	479	0	0	0	0	0	0	0	142	285	0

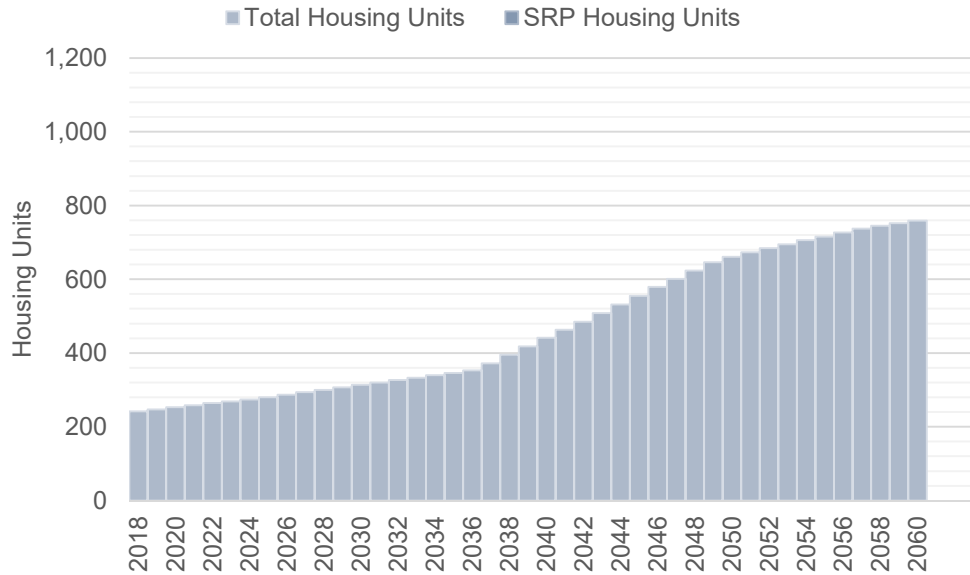
CasaGrande

Central Arizona Project Service Area Model

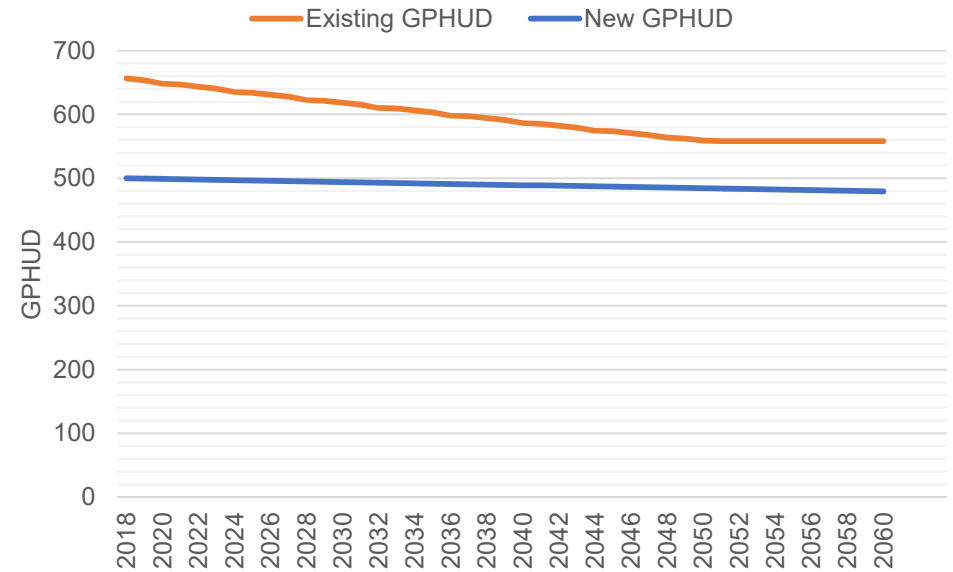
D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equal to 1.5x the max gw use from 2003 to 2013. Pairwise comparison to Scenario C.

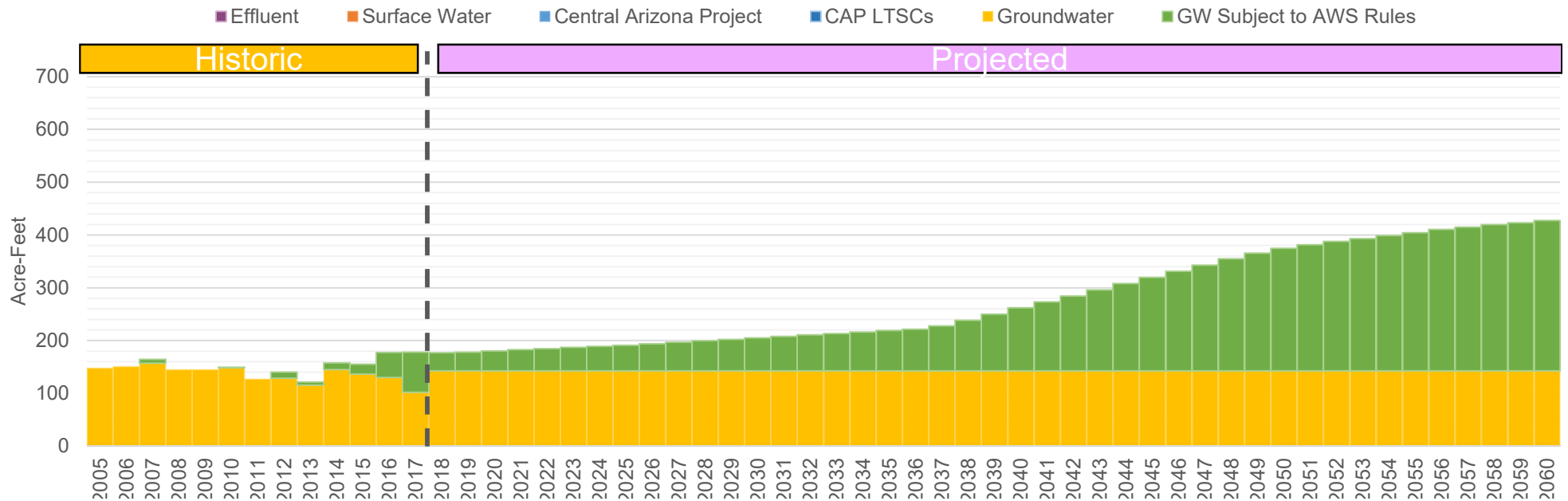
Housing Unit Projection



Gallons Per Housing Unit Per Day



Water Supply Projections



Central Arizona Project Service Area Model

D. Medium, Reduced Ag [EMSBS]

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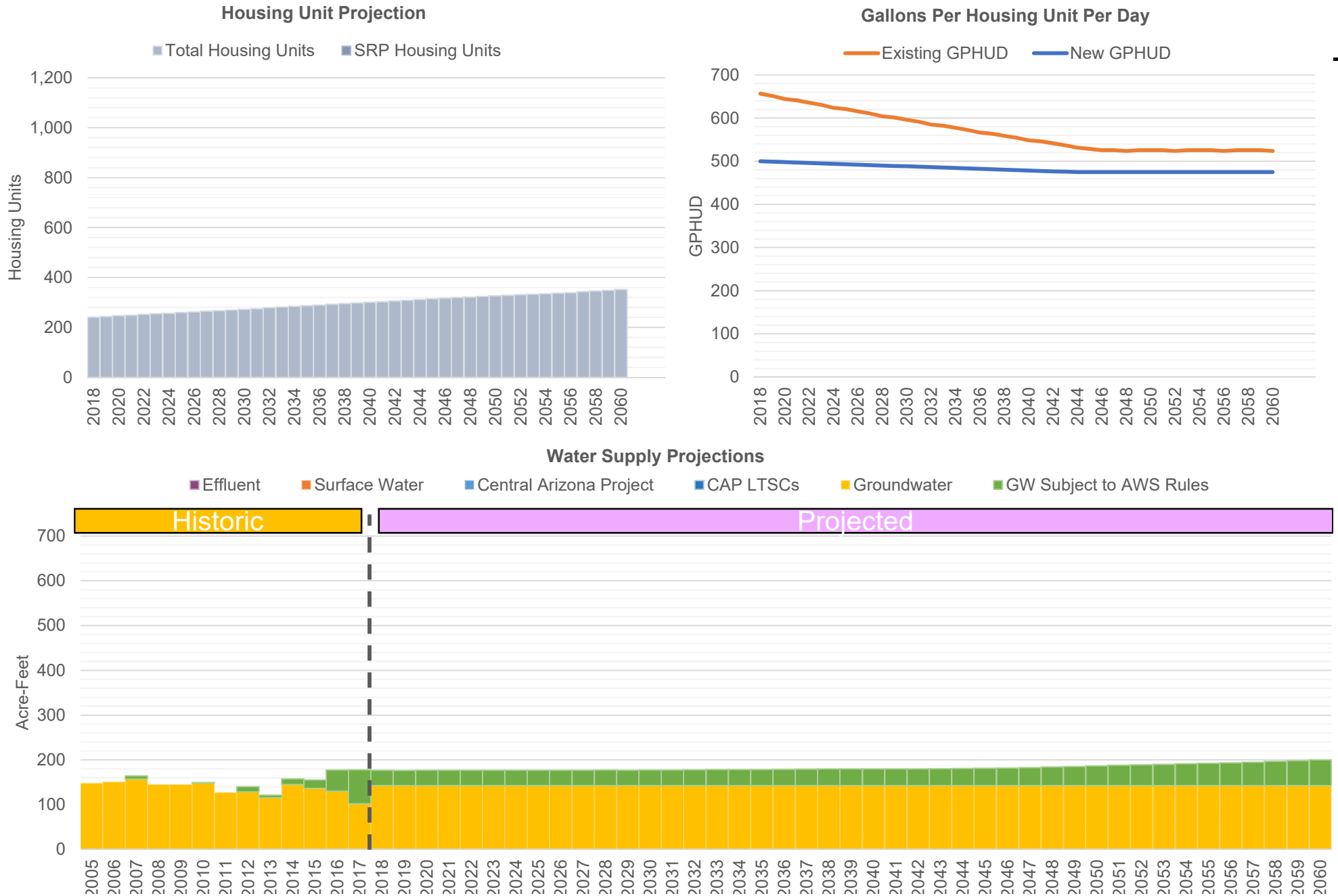
Demand Assumptions					Water Supply Projections (Acre-Feet)									
Date	Housing Units		GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater		Unknown
	Total	SRP	Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-Repl.	Replenished	
2018	242	0	657	500	0	0	0	0	0	0	0	142	35	0
2019	247	0	653	500	0	0	0	0	0	0	0	142	36	0
2020	253	0	648	499	0	0	0	0	0	0	0	142	38	0
2021	258	0	647	499	0	0	0	0	0	0	0	142	40	0
2022	264	0	644	498	0	0	0	0	0	0	0	142	42	0
2023	269	0	640	498	0	0	0	0	0	0	0	142	45	0
2024	274	0	635	497	0	0	0	0	0	0	0	142	46	0
2025	280	0	634	497	0	0	0	0	0	0	0	142	49	0
2026	287	0	631	496	0	0	0	0	0	0	0	142	51	0
2027	294	0	628	496	0	0	0	0	0	0	0	142	54	0
2028	300	0	623	495	0	0	0	0	0	0	0	142	57	0
2029	307	0	621	495	0	0	0	0	0	0	0	142	60	0
2030	314	0	618	494	0	0	0	0	0	0	0	142	63	0
2031	320	0	615	494	0	0	0	0	0	0	0	142	66	0
2032	327	0	610	493	0	0	0	0	0	0	0	142	68	0
2033	333	0	609	493	0	0	0	0	0	0	0	142	71	0
2034	340	0	606	492	0	0	0	0	0	0	0	142	74	0
2035	346	0	603	492	0	0	0	0	0	0	0	142	76	0
2036	353	0	598	491	0	0	0	0	0	0	0	142	79	0
2037	372	0	597	491	0	0	0	0	0	0	0	142	85	0
2038	395	0	594	490	0	0	0	0	0	0	0	142	96	0
2039	418	0	591	490	0	0	0	0	0	0	0	142	108	0
2040	441	0	586	489	0	0	0	0	0	0	0	142	120	0
2041	463	0	585	489	0	0	0	0	0	0	0	142	131	0
2042	485	0	582	488	0	0	0	0	0	0	0	142	142	0
2043	508	0	579	488	0	0	0	0	0	0	0	142	153	0
2044	532	0	575	487	0	0	0	0	0	0	0	142	166	0
2045	555	0	574	487	0	0	0	0	0	0	0	142	177	0
2046	579	0	571	486	0	0	0	0	0	0	0	142	189	0
2047	601	0	568	486	0	0	0	0	0	0	0	142	201	0
2048	624	0	563	485	0	0	0	0	0	0	0	142	212	0
2049	646	0	562	485	0	0	0	0	0	0	0	142	223	0
2050	661	0	559	484	0	0	0	0	0	0	0	142	232	0
2051	673	0	558	484	0	0	0	0	0	0	0	142	239	0
2052	684	0	558	483	0	0	0	0	0	0	0	142	246	0
2053	695	0	558	483	0	0	0	0	0	0	0	142	251	0
2054	706	0	558	482	0	0	0	0	0	0	0	142	256	0
2055	716	0	558	482	0	0	0	0	0	0	0	142	262	0
2056	727	0	558	481	0	0	0	0	0	0	0	142	268	0
2057	737	0	558	481	0	0	0	0	0	0	0	142	273	0
2058	745	0	558	480	0	0	0	0	0	0	0	142	277	0
2059	752	0	558	480	0	0	0	0	0	0	0	142	281	0
2060	759	0	558	479	0	0	0	0	0	0	0	142	285	0

CasaGrande

Central Arizona Project Service Area Model

E. Lowest Demand, Hot [EMSBS]

Slow growth rate, dense urbanization growth pattern, hotter and drier climate, Ag pumping capacity equal to the max gw use from 2003 to 2013 plus additional DCP pumping capacity. Pairwise comparison to Scenario F.



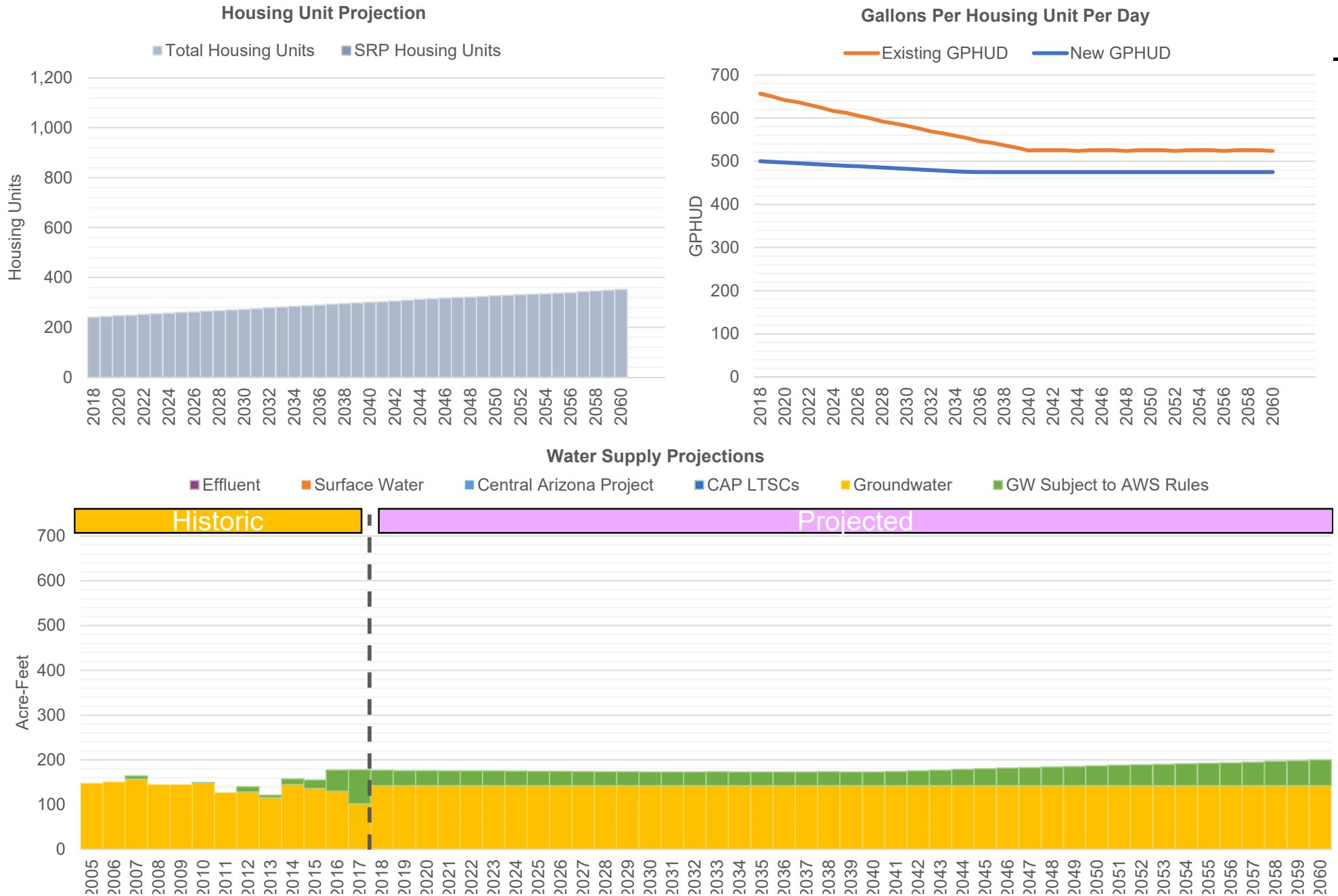
Demand Assumptions					Water Supply Projections (Acre-Feet)									
Date	Housing Units		GPHUD		Effluent	Surface Water		Central Arizona Project				Groundwater		Unknown
	Total	SRP	Existing	New		SRP	Non-SRP	Direct	ASR	Storage	Recovery	Non-Repl.	Replenished	
2018	241	0	657	500	0	0	0	0	0	0	0	142	34	0
2019	244	0	651	499	0	0	0	0	0	0	0	142	34	0
2020	247	0	644	498	0	0	0	0	0	0	0	142	34	0
2021	249	0	641	497	0	0	0	0	0	0	0	142	34	0
2022	252	0	636	496	0	0	0	0	0	0	0	142	34	0
2023	255	0	631	495	0	0	0	0	0	0	0	142	35	0
2024	257	0	624	494	0	0	0	0	0	0	0	142	35	0
2025	260	0	621	493	0	0	0	0	0	0	0	142	35	0
2026	262	0	616	492	0	0	0	0	0	0	0	142	35	0
2027	265	0	611	491	0	0	0	0	0	0	0	142	35	0
2028	267	0	604	490	0	0	0	0	0	0	0	142	35	0
2029	270	0	601	489	0	0	0	0	0	0	0	142	35	0
2030	272	0	596	488	0	0	0	0	0	0	0	142	35	0
2031	275	0	592	487	0	0	0	0	0	0	0	142	35	0
2032	279	0	585	486	0	0	0	0	0	0	0	142	36	0
2033	282	0	582	485	0	0	0	0	0	0	0	142	36	0
2034	284	0	577	484	0	0	0	0	0	0	0	142	36	0
2035	287	0	573	483	0	0	0	0	0	0	0	142	36	0
2036	290	0	567	482	0	0	0	0	0	0	0	142	37	0
2037	293	0	564	481	0	0	0	0	0	0	0	142	37	0
2038	296	0	559	480	0	0	0	0	0	0	0	142	37	0
2039	298	0	555	479	0	0	0	0	0	0	0	142	37	0
2040	301	0	549	478	0	0	0	0	0	0	0	142	37	0
2041	303	0	546	477	0	0	0	0	0	0	0	142	38	0
2042	306	0	542	477	0	0	0	0	0	0	0	142	38	0
2043	309	0	537	476	0	0	0	0	0	0	0	142	38	0
2044	312	0	531	475	0	0	0	0	0	0	0	142	38	0
2045	315	0	529	475	0	0	0	0	0	0	0	142	39	0
2046	317	0	525	475	0	0	0	0	0	0	0	142	39	0
2047	320	0	525	475	0	0	0	0	0	0	0	142	41	0
2048	322	0	524	475	0	0	0	0	0	0	0	142	42	0
2049	324	0	525	475	0	0	0	0	0	0	0	142	43	0
2050	327	0	525	475	0	0	0	0	0	0	0	142	44	0
2051	329	0	525	475	0	0	0	0	0	0	0	142	46	0
2052	331	0	524	475	0	0	0	0	0	0	0	142	47	0
2053	333	0	525	475	0	0	0	0	0	0	0	142	48	0
2054	335	0	525	475	0	0	0	0	0	0	0	142	49	0
2055	337	0	525	475	0	0	0	0	0	0	0	142	50	0
2056	339	0	524	475	0	0	0	0	0	0	0	142	51	0
2057	343	0	525	475	0	0	0	0	0	0	0	142	53	0
2058	346	0	525	475	0	0	0	0	0	0	0	142	54	0
2059	349	0	525	475	0	0	0	0	0	0	0	142	56	0
2060	352	0	524	475	0	0	0	0	0	0	0	142	58	0

CasaGrande

Central Arizona Project Service Area Model

F. Lowest Demand, Historic [EMSBS]

Slow growth rate, dense urbanization growth pattern, historic climate, Ag pumping capacity equal to the max gw use from 2003 to 2013 plus additional DCP pumping capacity. Pairwise comparison to Scenario E.



[illegible]