

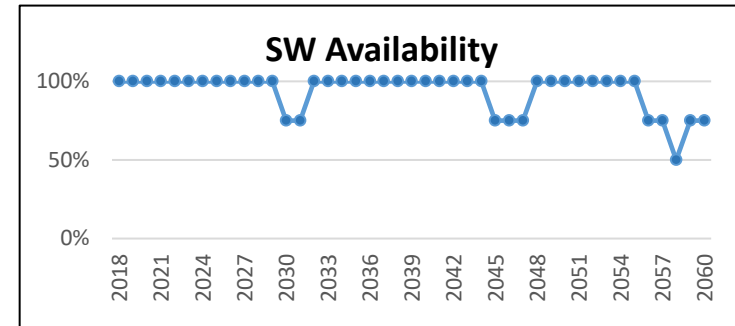
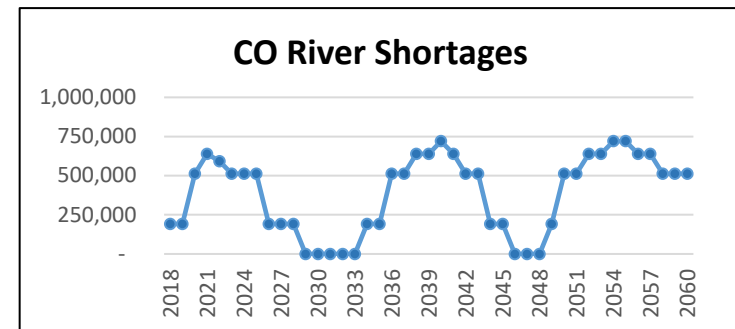
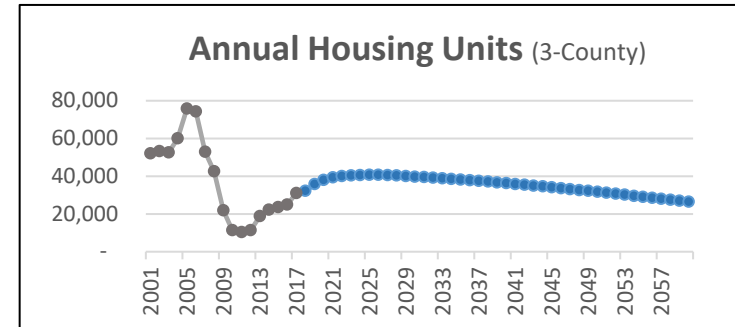
## D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate,  
Ag pumping capacity equals 1.25x the max gw use from 2010 to  
2015. Pairwise comparison to Scenario C.

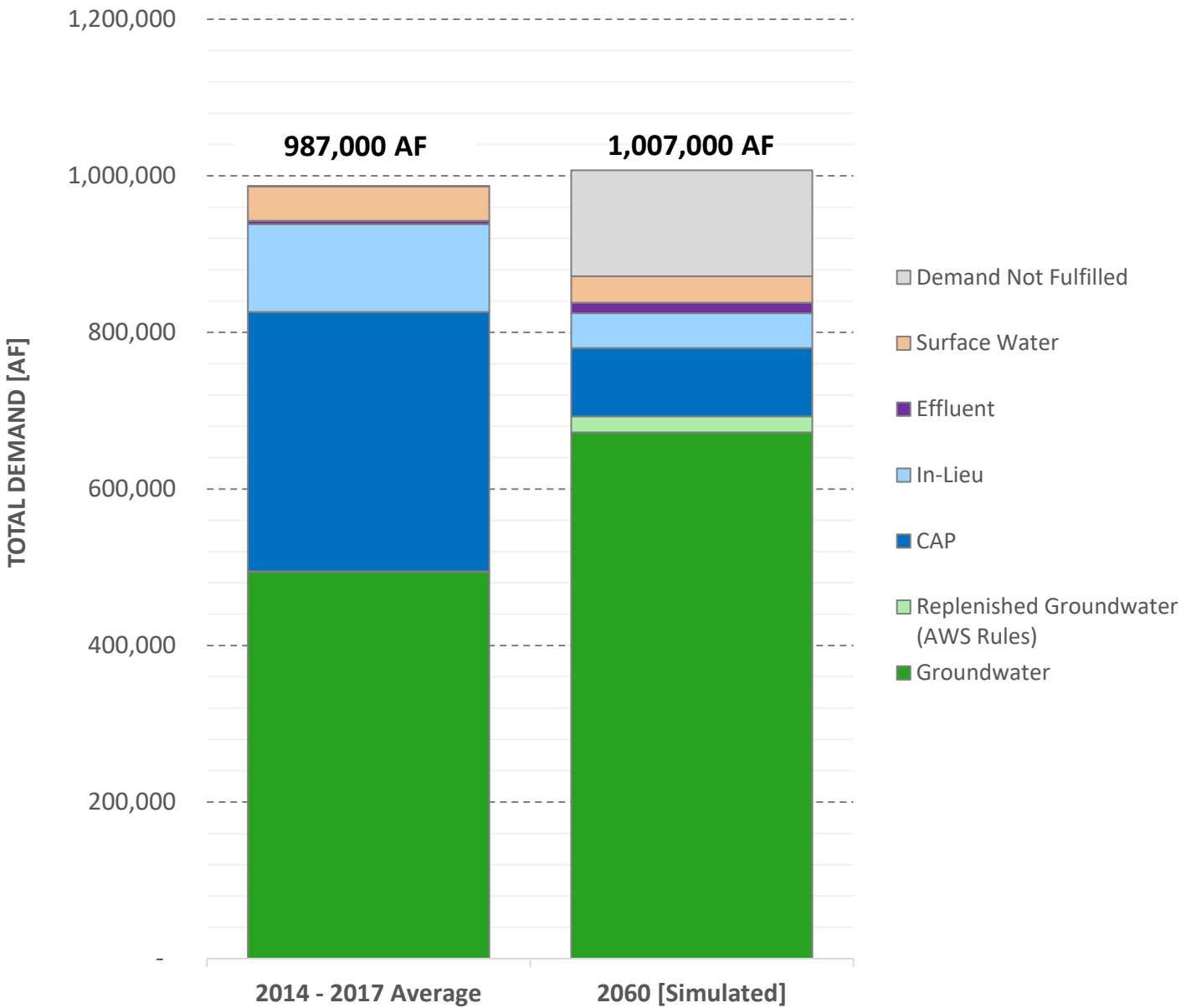
Allow Shortages	Yes	
Select CRSS Array	3	3=Synthetic
Use Specific Trace	Yes	
Selected Trace	1	1=Moderate; 2=Deep; 3=Slight
AWBA Max M&I	20%	
Surface Water Scenario	2	1=No Reduction; 2=Occasional; 3=Frequent
Use CAP Buildup	Yes	
CAP Buildup Scenario	2	1=2035; 2=2045
HU Growth Pattern	1	4=Interior Growth
HU Forecast	2	1=Use Curve; 2=Eller Forecast
HU Curve	2	
HU Growth Start Rate	-1%	
HU Ordinary Level	40,700	
HU Rate @ 50 yrs	-2%	
GPHUD Change Existing	-0.5%	per year
GPHUD Max Change Existing	-15%	
GPHUD Min Existing	200	
GPHUD Scenario New	1	
GPHUD Change New	-0.1%	per year
Ag Climate Adjustment	0.1	
Ag Efficiency Increase	0.2%	per year
Ag Efficiency Goal	80%	
Ag Replace Crop CU	2.66	
Ag Intensity Scenario	2	
Ag Develop on Crops	50%	Perecent of max on active Ag
Ag Acres Replace Percent	0%	
Ag Replace Crop Year	2025	

Run Date: 2/24/2020

Filename: CAPServiceArea\_v3.51\_ACv3.gsm



D. Medium, Reduced Ag [EMSBS]

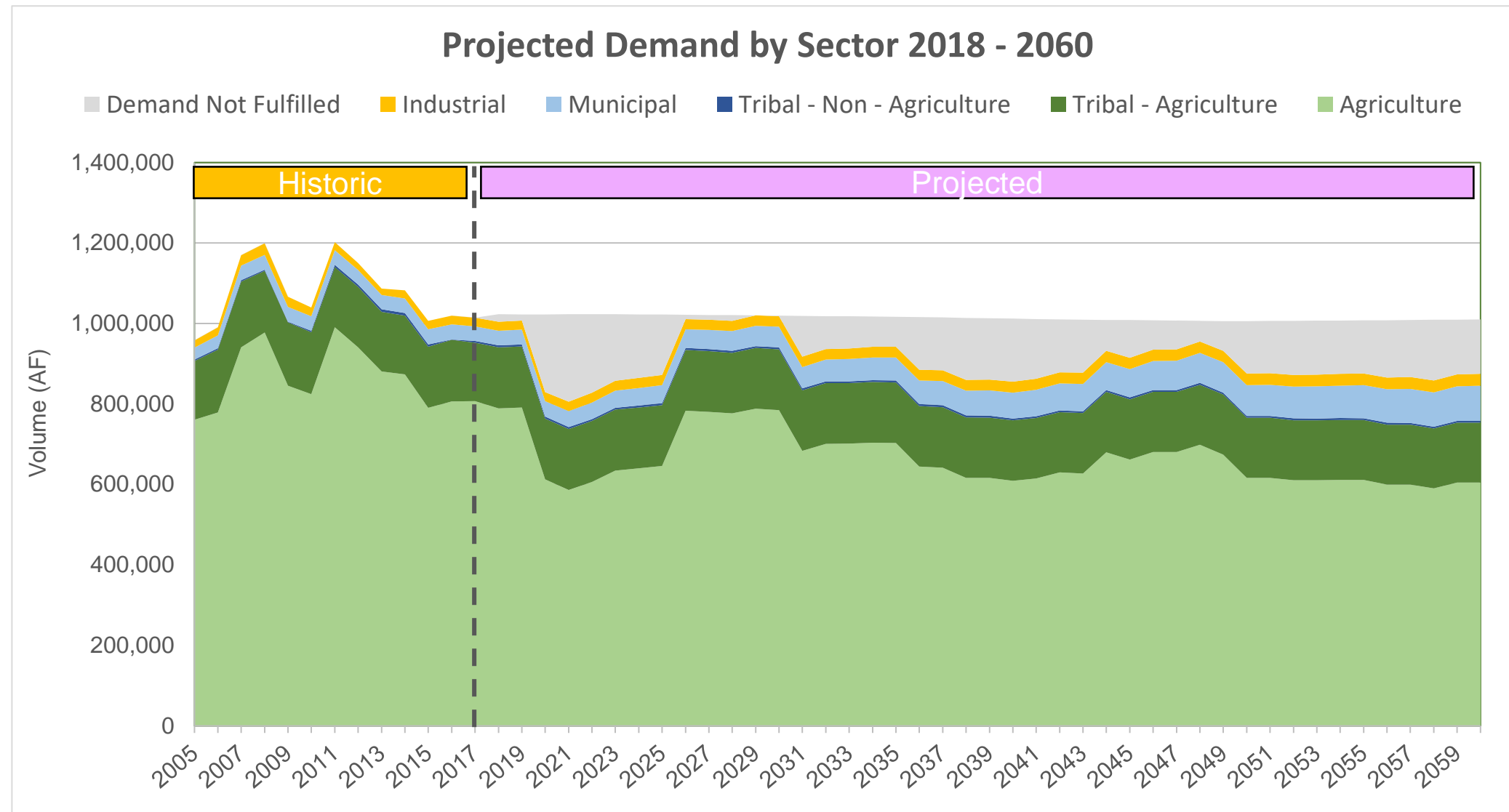


[ Muni + Ag + Tribal + Industrial ]

## Central Arizona Project Service Area Model

### D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.



## D. Medium, Reduced Ag [EMSBS]

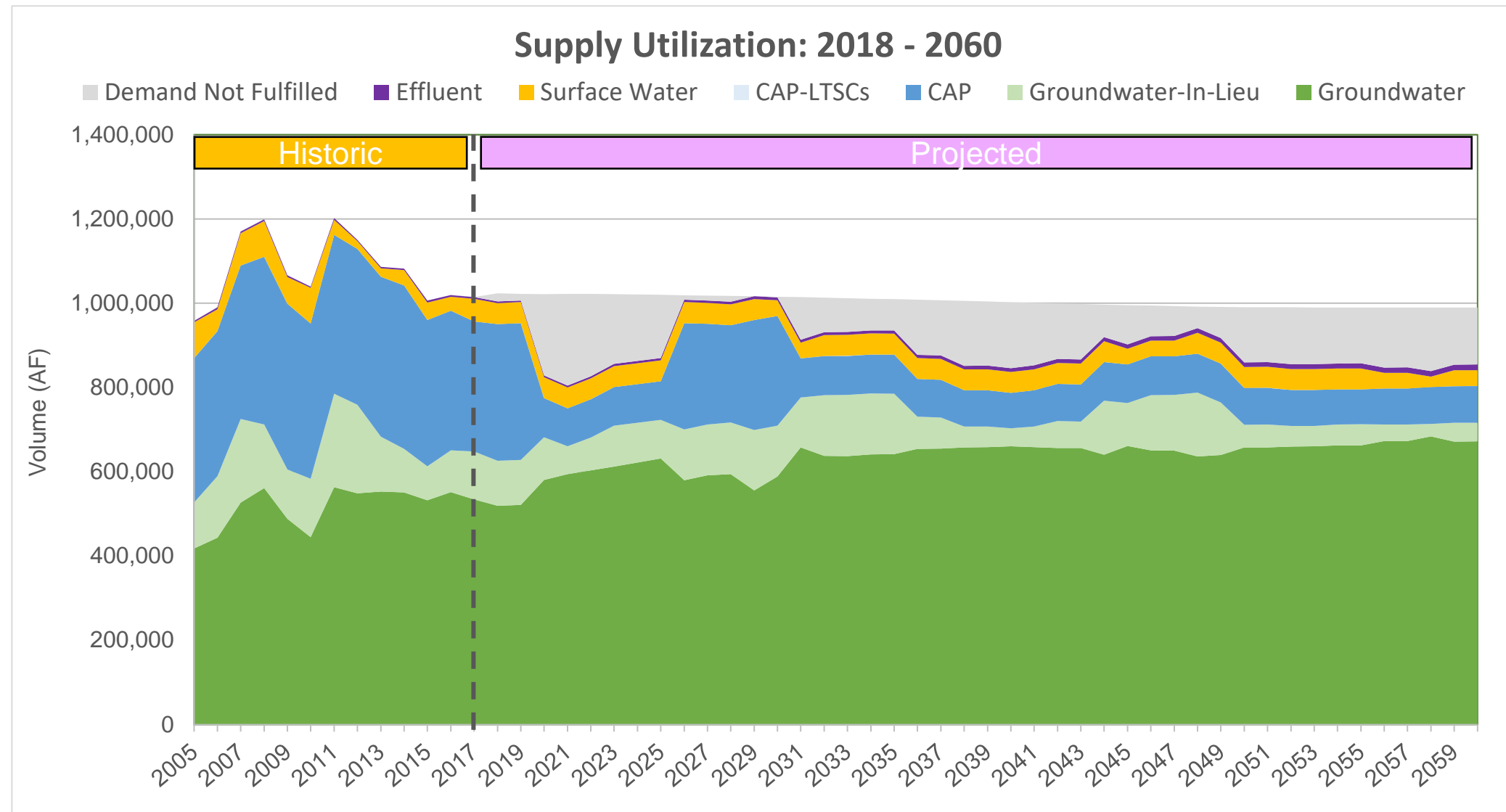
### Demand By Sector

Date	Agriculture	Municipal	Industrial	Tribal
2018	789,203	36,273	22,274	156,463
2019	791,536	37,122	22,415	156,385
2020	612,484	38,406	22,566	156,306
2021	586,269	39,740	23,724	156,229
2022	606,306	41,109	24,468	156,151
2023	634,475	42,489	24,733	156,073
2024	640,100	43,896	24,893	155,993
2025	645,907	45,243	25,054	155,918
2026	783,365	46,570	25,215	155,840
2027	780,689	47,864	25,376	155,762
2028	776,454	49,184	25,535	155,680
2029	788,416	50,417	25,694	155,607
2030	785,025	51,674	25,851	155,529
2031	683,239	52,917	26,007	155,452
2032	700,977	54,197	26,162	155,368
2033	701,300	55,359	26,316	155,297
2034	704,104	56,558	26,468	155,219
2035	703,026	57,742	26,620	155,142
2036	644,551	58,977	26,769	155,057
2037	641,961	60,156	26,917	154,987
2038	616,626	61,487	27,064	154,910
2039	616,119	62,820	27,209	154,833
2040	609,358	64,215	27,353	154,746
2041	615,122	65,428	27,495	154,679
2042	629,788	66,701	27,635	154,601
2043	627,543	67,963	27,773	154,524
2044	680,322	69,314	27,910	154,436
2045	661,957	70,460	28,045	154,370
2046	680,592	71,680	28,178	154,293
2047	680,656	72,878	28,309	154,216
2048	698,469	74,162	28,438	154,127
2049	674,389	75,207	28,565	154,063
2050	616,508	76,313	28,690	153,986
2051	616,351	77,448	28,813	153,909
2052	610,490	78,734	28,934	153,818
2053	610,337	79,754	29,054	153,756
2054	611,243	80,872	29,171	153,679
2055	611,096	81,968	29,286	153,602
2056	599,911	83,174	29,399	153,510
2057	599,755	84,090	29,509	153,449
2058	590,447	85,138	29,618	153,373
2059	604,779	86,182	29,725	153,296
2060	604,749	87,346	29,829	153,202

## Central Arizona Project Service Area Model

### D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.



## D. Medium, Reduced Ag [EMSBS]

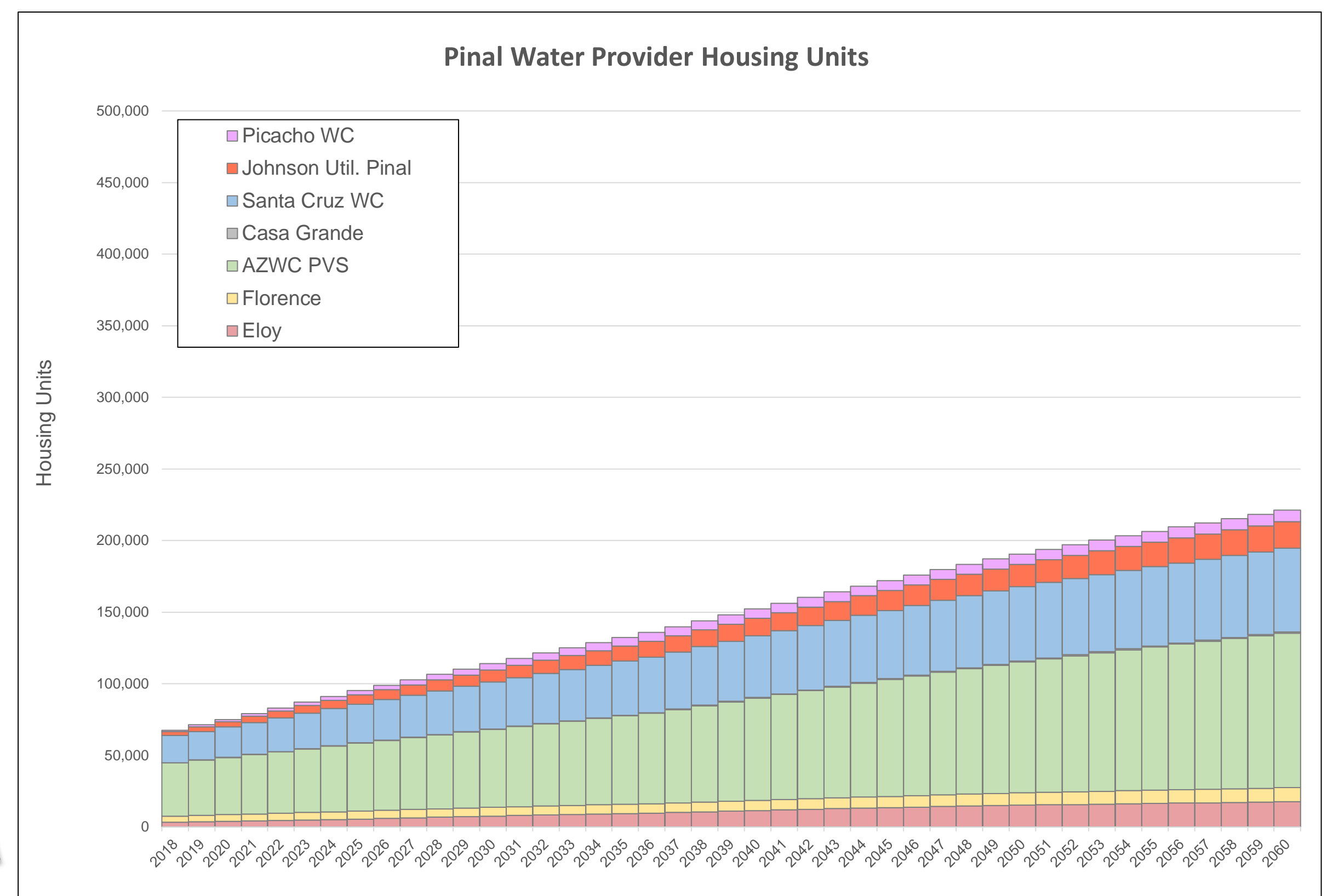
### Supply Utilization

Date	Effluent	Surface Water	CAP	CAP LTSCs	Groundwater	Groundwater - In Lieu	Groundwater - Replenished	Unknown
2018	3,992	49,650	324,558	136	518,961	106,505	411	19,172
2019	4,095	49,650	324,524	129	521,700	106,629	731	15,277
2020	4,284	49,650	92,793	123	580,944	101,003	964	192,687
2021	4,505	49,650	89,600	117	594,708	66,191	1,193	217,232
2022	4,735	49,650	90,912	111	603,508	77,656	1,463	195,400
2023	4,972	49,650	91,996	105	612,046	97,261	1,739	165,393
2024	5,217	49,650	91,697	100	621,838	94,328	2,051	157,908
2025	5,459	49,650	91,420	95	631,601	91,542	2,354	150,240
2026	5,695	49,650	252,628	91	579,650	120,595	2,681	10,831
2027	5,921	49,650	238,604	86	591,737	120,686	3,007	11,567
2028	6,148	49,650	230,864	82	594,350	122,397	3,363	13,853
2029	6,371	49,650	260,962	78	555,561	143,804	3,707	0
2030	6,594	37,238	260,926	74	588,808	120,372	4,069	1,484
2031	6,820	37,238	92,666	70	657,582	118,807	4,431	101,377
2032	7,053	49,650	92,628	67	637,760	144,241	5,306	81,730
2033	7,276	49,650	92,595	64	636,988	145,544	6,156	79,574
2034	7,501	49,650	92,559	61	641,376	144,569	6,635	74,916
2035	7,729	49,650	92,523	58	641,739	143,721	7,110	74,159
2036	7,966	49,650	89,431	55	654,677	75,976	7,600	130,772
2037	8,194	49,650	89,267	52	654,960	73,822	8,077	131,126
2038	8,423	49,650	86,253	50	658,142	48,957	8,612	154,076
2039	8,654	49,650	86,166	47	658,393	48,918	9,154	152,218
2040	8,895	49,650	83,978	45	660,763	42,626	9,715	156,594
2041	9,122	49,650	85,993	43	658,846	48,840	10,229	148,565
2042	9,352	49,650	88,502	41	656,455	63,959	10,769	131,611
2043	9,584	49,650	88,361	39	656,695	62,179	11,296	131,764
2044	9,824	49,650	91,999	37	640,515	127,901	12,056	77,037
2045	10,045	37,238	91,785	35	661,376	101,561	12,793	93,589
2046	10,270	37,238	92,129	33	650,811	130,902	13,360	73,103
2047	10,498	37,238	92,094	32	650,064	132,214	13,919	71,211
2048	10,740	49,650	92,052	30	636,276	151,944	14,503	51,533
2049	10,961	49,650	91,642	29	639,950	124,980	15,012	73,895
2050	11,179	49,650	87,238	27	657,632	54,230	15,541	130,628
2051	11,400	49,650	87,203	26	657,885	54,297	16,059	129,961
2052	11,643	49,650	85,279	25	660,094	48,672	16,613	134,932
2053	11,861	49,650	85,253	24	660,304	48,726	17,082	134,348
2054	12,084	49,650	83,106	23	662,471	49,847	17,784	132,643
2055	12,313	49,650	83,076	21	662,698	49,915	18,280	131,997
2056	12,558	37,238	85,593	20	673,022	38,954	18,607	142,318
2057	12,775	37,238	85,568	20	673,174	38,992	19,039	141,780
2058	13,002	24,825	87,436	19	684,016	29,763	19,516	150,635
2059	13,236	37,238	87,401	18	671,927	44,170	19,991	135,862
2060	13,493	37,238	87,358	17	672,295	44,230	20,496	135,369

**Housing Unit Projection:** Baseline, Council of Governments



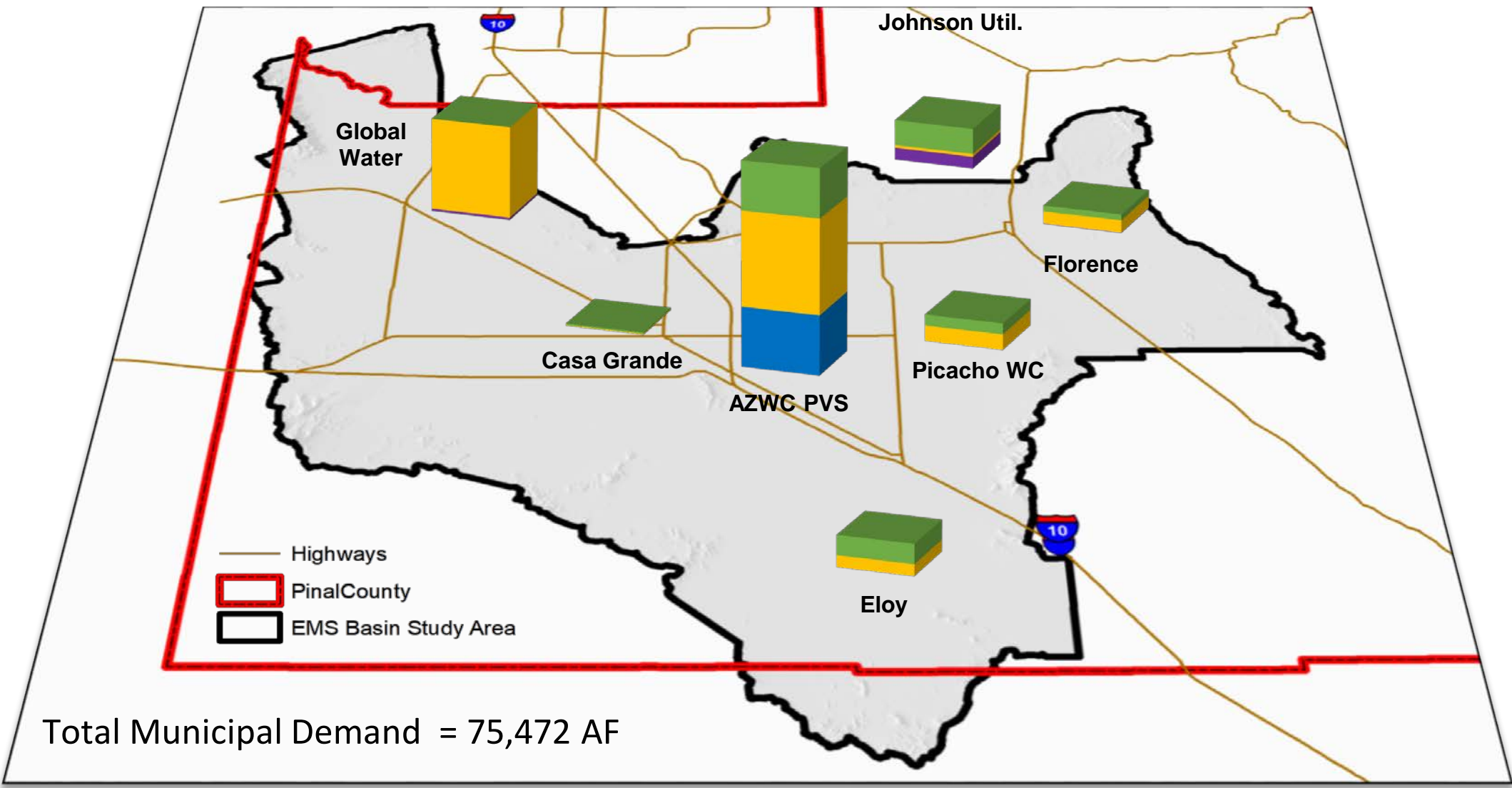
Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.





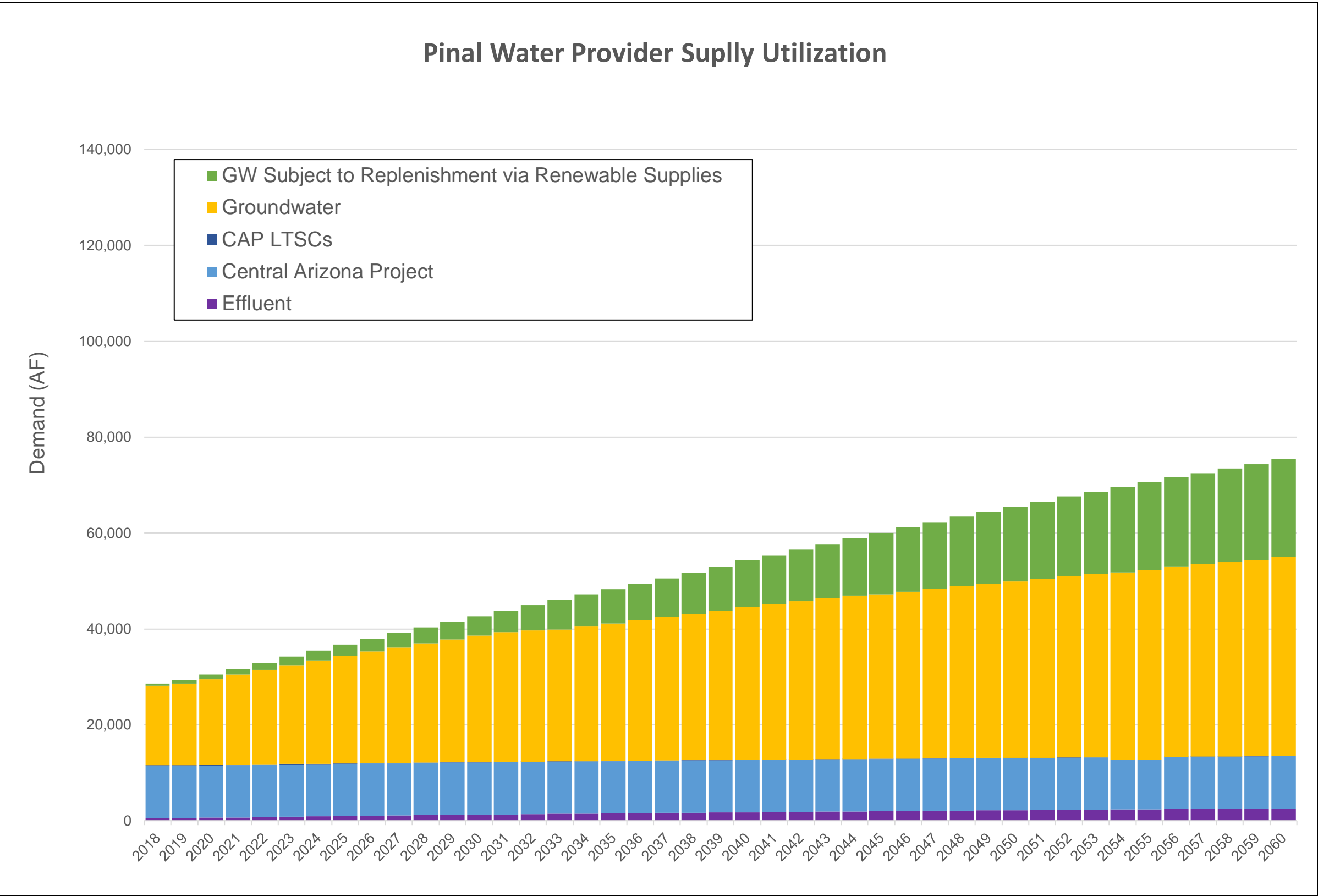
D. Medium, Reduced Ag [EMSBS]

Supply Utilization, 2060



■ GW Subject to AWS Rules ■ Groundwater ■ CAP LTSCs ■ Central Arizona Project ■ Effluent

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.

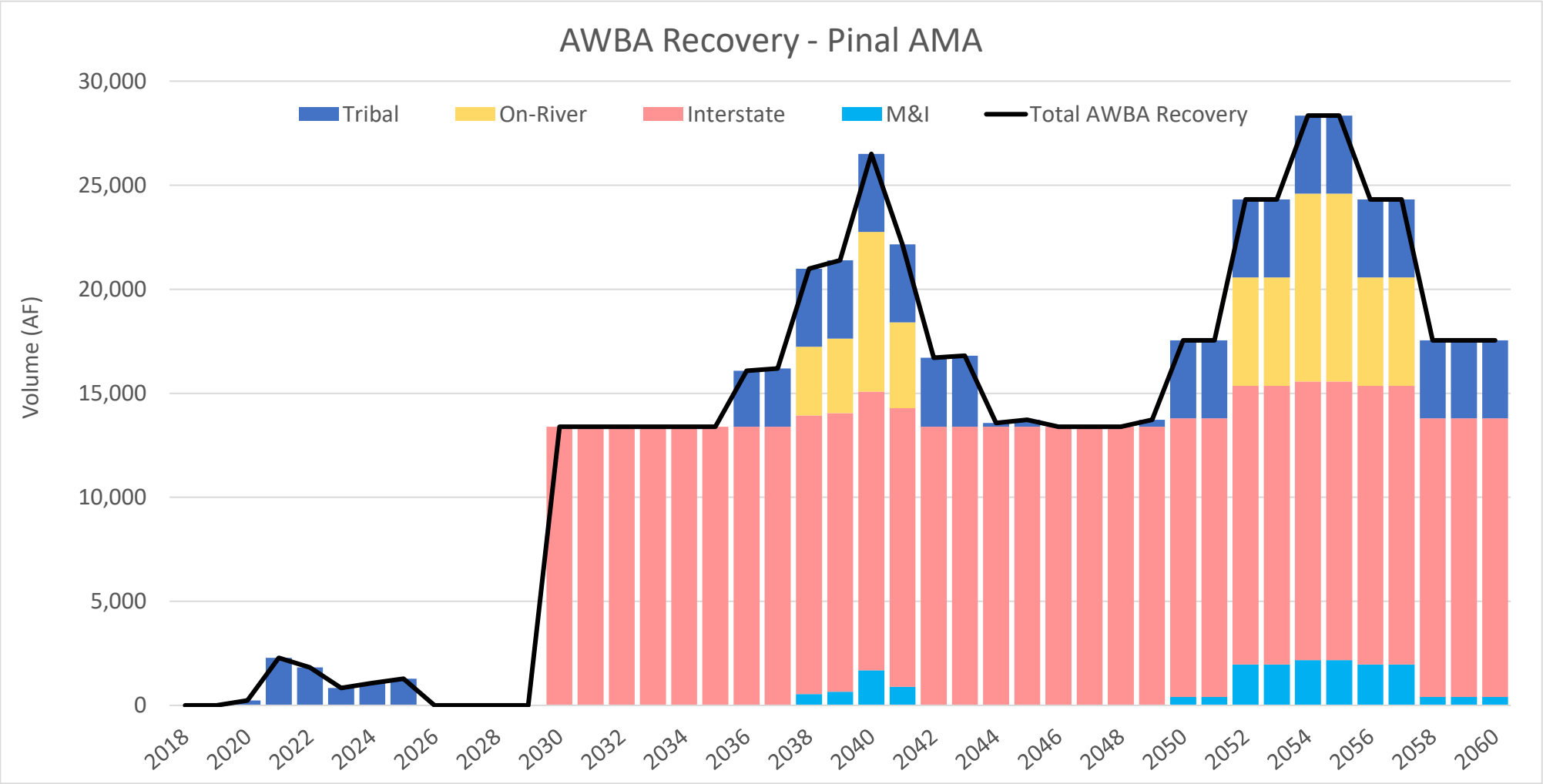




Central Arizona Project Service Area Model

D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.



## D. Medium, Reduced Ag [EMSBS]

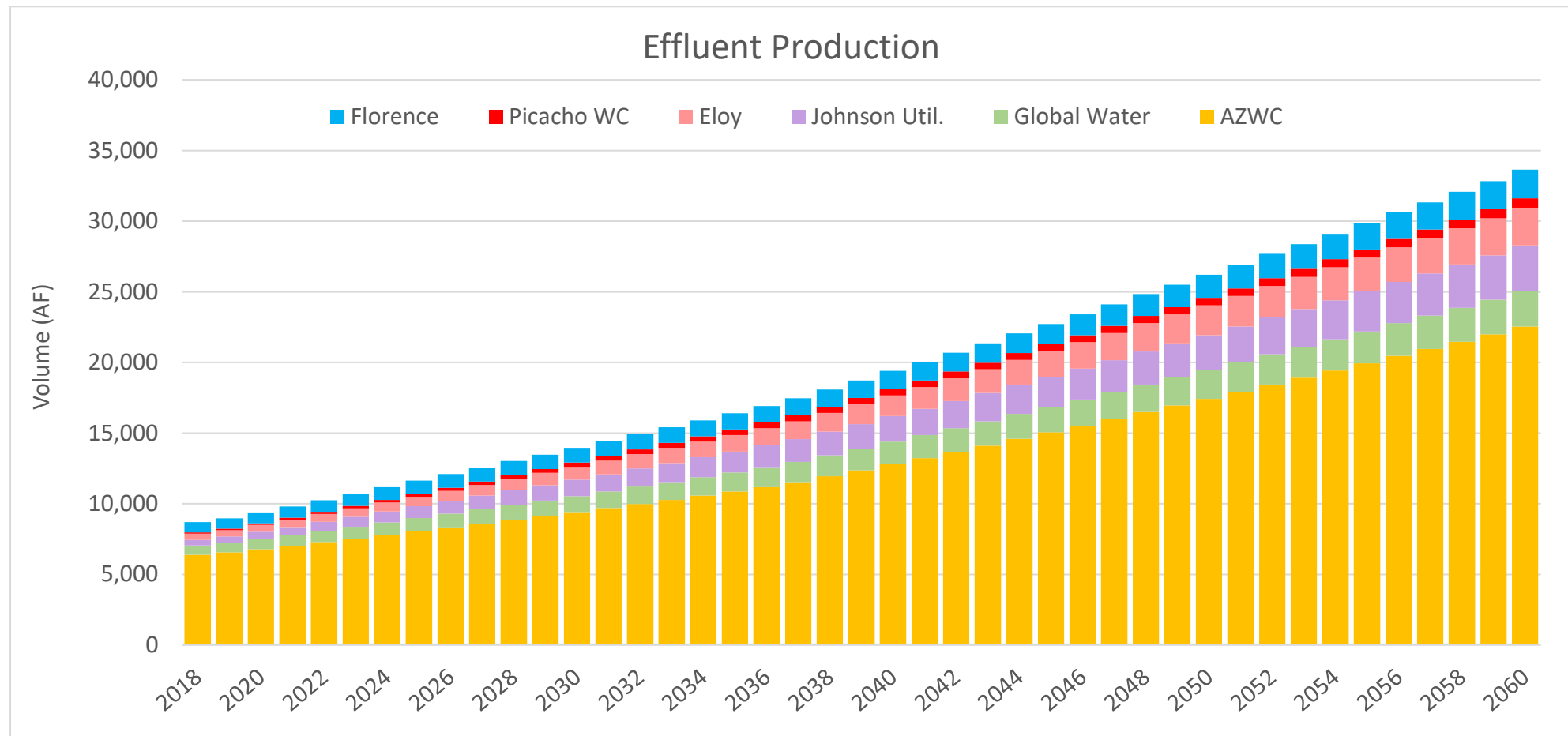
### AWBA Recovery

Date	M&I	Interstate	On-River	Tribal	Total
2018	0	0	0	0	0
2019	0	0	0	0	0
2020	0	0	0	236	236
2021	0	0	0	2,284	2,284
2022	0	0	0	1,826	1,826
2023	0	0	0	842	842
2024	0	0	0	1,072	1,072
2025	0	0	0	1,285	1,285
2026	0	0	0	0	0
2027	0	0	0	0	0
2028	0	0	0	0	0
2029	0	0	0	0	0
2030	0	13,393	0	0	13,393
2031	0	13,393	0	0	13,393
2032	0	13,393	0	0	13,393
2033	0	13,393	0	0	13,393
2034	0	13,393	0	0	13,393
2035	0	13,393	0	0	13,393
2036	0	13,393	0	2,683	16,075
2037	0	13,393	0	2,798	16,191
2038	537	13,393	3,306	3,750	20,986
2039	659	13,393	3,581	3,750	21,382
2040	1,685	13,393	7,672	3,750	26,500
2041	893	13,393	4,126	3,750	22,161
2042	0	13,393	0	3,313	16,706
2043	0	13,393	0	3,406	16,798
2044	0	13,393	0	173	13,565
2045	0	13,393	0	334	13,727
2046	0	13,393	0	0	13,393
2047	0	13,393	0	0	13,393
2048	0	13,393	0	0	13,393
2049	0	13,393	0	334	13,727
2050	399	13,393	0	3,750	17,542
2051	399	13,393	0	3,750	17,542
2052	1,963	13,393	5,205	3,750	24,311
2053	1,963	13,393	5,205	3,750	24,311
2054	2,177	13,393	9,026	3,750	28,345
2055	2,177	13,393	9,026	3,750	28,345
2056	1,963	13,393	5,205	3,750	24,311
2057	1,963	13,393	5,205	3,750	24,311
2058	399	13,393	0	3,750	17,542
2059	399	13,393	0	3,750	17,542
2060	399	13,393	0	3,750	17,542

## Central Arizona Project Service Area Model

### D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.



## D. Medium, Reduced Ag [EMSBS]

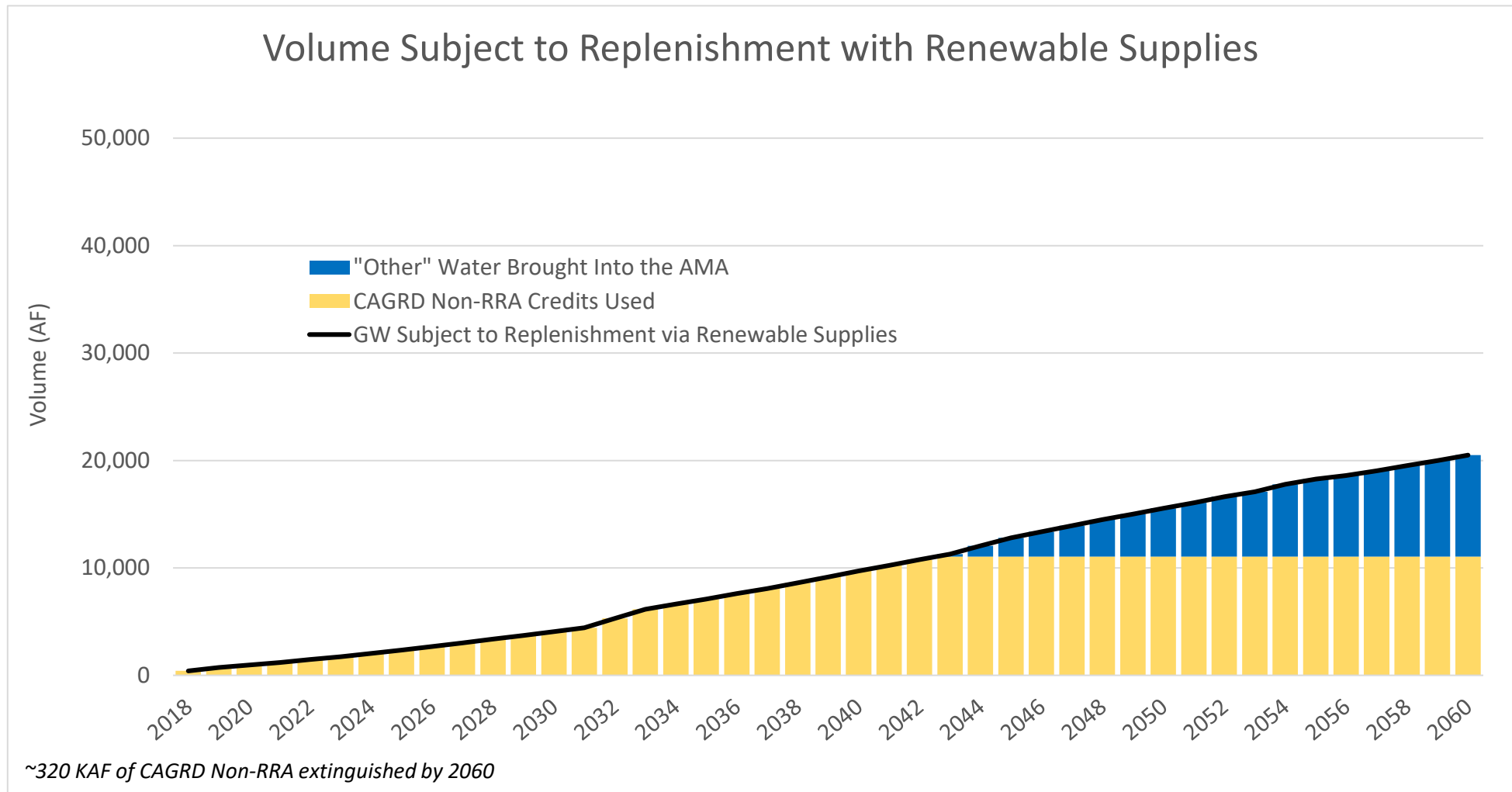
### Effluent Production

Date	Eloy	Florence	AZWC	Casa Grande	Global Water	Johnson Utilities	Picaco WC	Total
2018	432	709	6,385	0	667	396	102	8,690
2019	454	730	6,550	0	692	437	111	8,974
2020	486	761	6,782	0	728	498	125	9,380
2021	520	794	7,026	0	765	562	139	9,806
2022	555	827	7,278	0	805	630	154	10,249
2023	591	862	7,534	0	846	699	170	10,702
2024	628	898	7,799	0	888	771	186	11,170
2025	667	931	8,060	0	930	840	202	11,630
2026	713	957	8,325	0	971	904	220	12,090
2027	763	977	8,591	0	1,012	965	239	12,547
2028	815	999	8,866	0	1,054	1,029	258	13,020
2029	866	1,019	9,132	0	1,094	1,089	277	13,477
2030	918	1,040	9,406	0	1,136	1,152	296	13,949
2031	969	1,061	9,688	0	1,179	1,216	316	14,428
2032	1,019	1,082	9,986	0	1,222	1,283	336	14,929
2033	1,066	1,101	10,272	0	1,263	1,347	355	15,403
2034	1,115	1,120	10,569	0	1,306	1,413	375	15,898
2035	1,165	1,141	10,868	0	1,349	1,479	395	16,397
2036	1,217	1,162	11,182	0	1,394	1,550	416	16,920
2037	1,271	1,184	11,521	0	1,437	1,612	431	17,457
2038	1,337	1,212	11,935	0	1,482	1,676	439	18,081
2039	1,405	1,241	12,364	0	1,528	1,741	446	18,725
2040	1,476	1,271	12,813	0	1,576	1,809	454	19,399
2041	1,542	1,299	13,232	0	1,621	1,870	460	20,025
2042	1,612	1,328	13,671	0	1,667	1,935	468	20,681
2043	1,679	1,360	14,117	0	1,714	2,001	475	21,346
2044	1,746	1,399	14,599	0	1,763	2,071	483	22,060
2045	1,803	1,436	15,049	0	1,806	2,132	490	22,716
2046	1,864	1,476	15,521	0	1,852	2,199	497	23,409
2047	1,926	1,515	15,996	0	1,899	2,266	504	24,106
2048	1,992	1,557	16,497	0	1,949	2,338	513	24,846
2049	2,050	1,595	16,951	0	1,992	2,400	520	25,508
2050	2,109	1,634	17,423	0	2,038	2,468	528	26,200
2051	2,164	1,673	17,910	0	2,083	2,539	540	26,909
2052	2,224	1,716	18,441	0	2,132	2,617	554	27,685
2053	2,275	1,754	18,916	0	2,175	2,684	565	28,370
2054	2,331	1,795	19,422	0	2,221	2,758	578	29,105
2055	2,387	1,836	19,929	0	2,268	2,831	591	29,842
2056	2,449	1,880	20,473	0	2,318	2,911	605	30,637
2057	2,500	1,919	20,949	0	2,361	2,978	616	31,325
2058	2,557	1,958	21,466	0	2,409	3,055	630	32,075
2059	2,616	1,995	21,989	0	2,457	3,134	644	32,834
2060	2,680	2,035	22,552	0	2,510	3,220	660	33,657

## Central Arizona Project Service Area Model

### D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equals 1.25x the max gw use from 2010 to 2015. Pairwise comparison to Scenario C.



## D. Medium, Reduced Ag [EMSBS]

### AWS Replenishment

Date	GW Subject to AWS Rules	CAGR Non-RRA LTSCs Used	Other Water
2018	411	411	0
2019	731	731	0
2020	964	964	0
2021	1,193	1,193	0
2022	1,463	1,463	0
2023	1,739	1,739	0
2024	2,051	2,051	0
2025	2,354	2,354	0
2026	2,681	2,681	0
2027	3,007	3,007	0
2028	3,363	3,363	0
2029	3,707	3,707	0
2030	4,069	4,069	0
2031	4,431	4,431	0
2032	5,306	5,306	0
2033	6,156	6,156	0
2034	6,635	6,635	0
2035	7,110	7,110	0
2036	7,600	7,600	0
2037	8,077	8,077	0
2038	8,612	8,612	0
2039	9,154	9,154	0
2040	9,715	9,715	0
2041	10,229	10,229	0
2042	10,769	10,769	0
2043	11,296	11,042	254
2044	12,056	11,042	1,014
2045	12,793	11,042	1,751
2046	13,360	11,042	2,319
2047	13,919	11,042	2,877
2048	14,503	11,042	3,461
2049	15,012	11,042	3,970
2050	15,541	11,042	4,499
2051	16,059	11,042	5,017
2052	16,613	11,042	5,571
2053	17,082	11,042	6,040
2054	17,784	11,042	6,742
2055	18,280	11,042	7,238
2056	18,607	11,042	7,565
2057	19,039	11,042	7,997
2058	19,516	11,042	8,474
2059	19,991	11,042	8,950
2060	20,496	11,042	9,455