

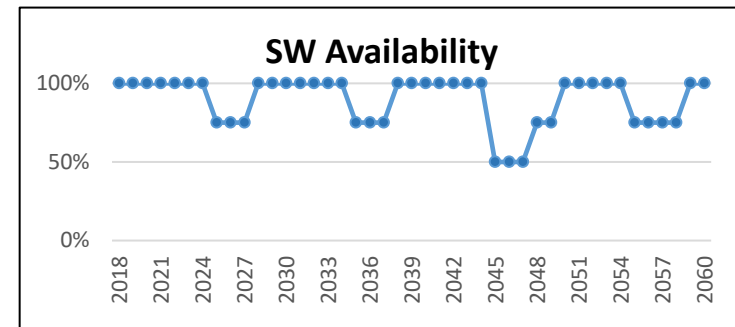
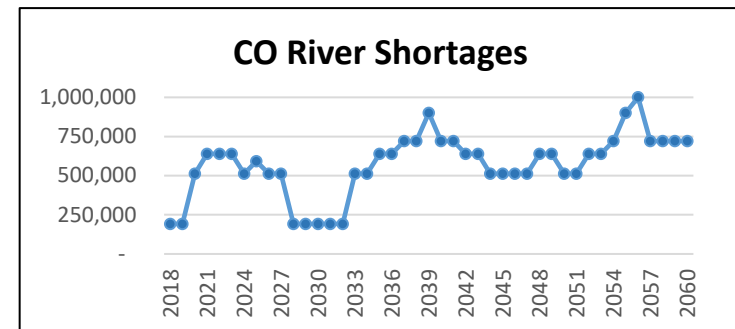
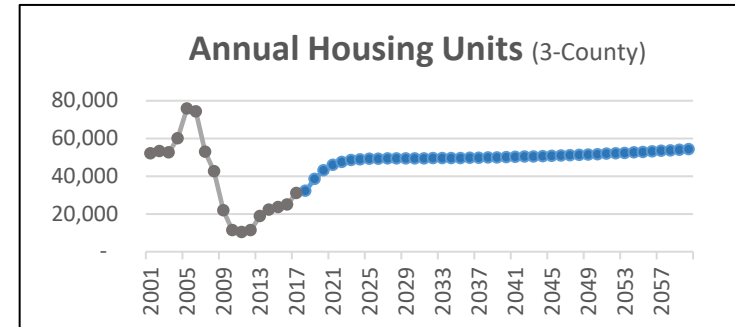
A. Highest Demand [EMSBS]

High growth rate, spillover (suburban) growth pattern, hotter and drier climate, Ag pumping capacity equals 1.5x the max gw use from 2010 to 2015

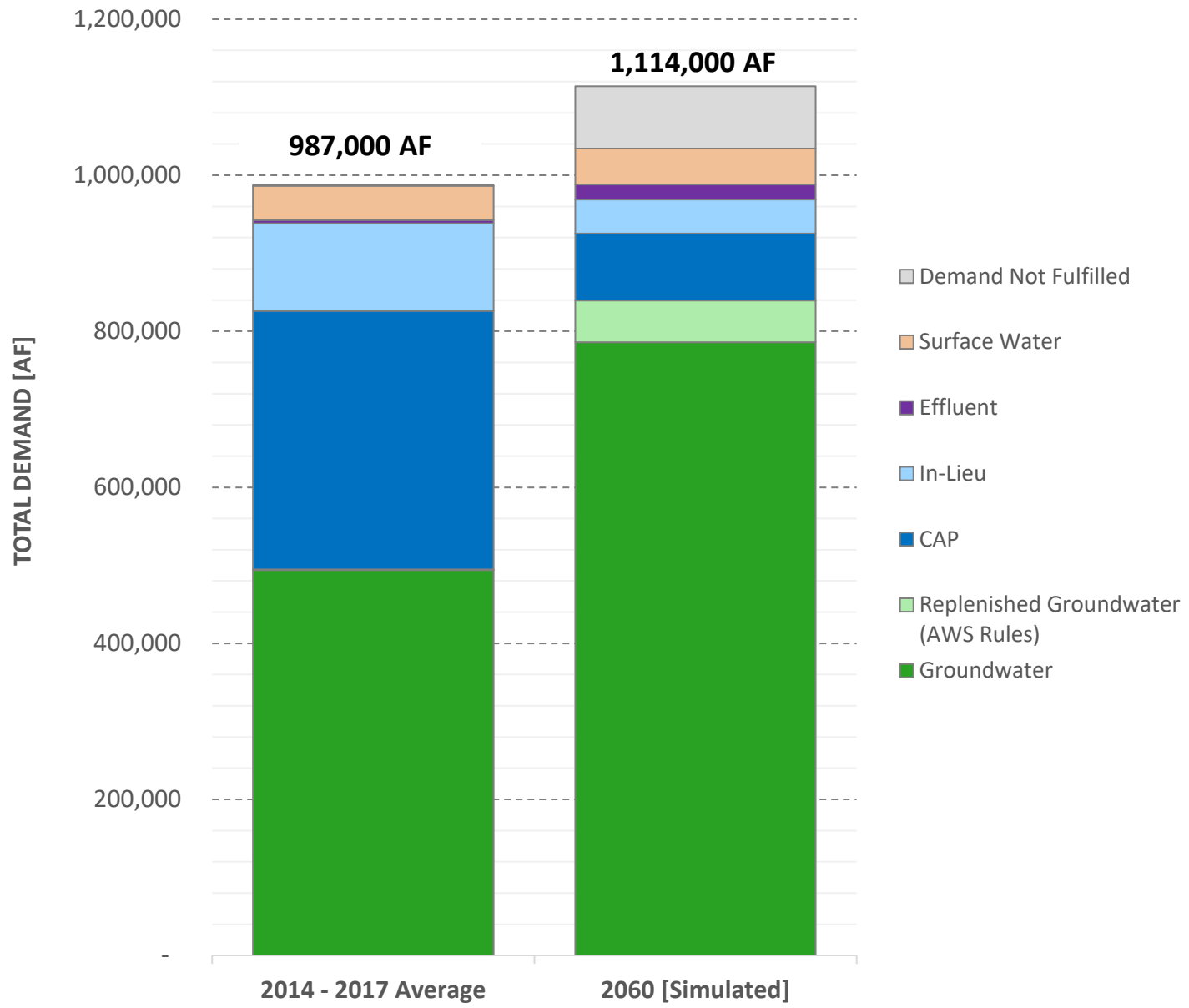
Allow Shortages	Yes	
Select CRSS Array	3	3=Synthetic
Use Specific Trace	Yes	
Selected Trace	2	1=Moderate; 2=Deep; 3=Slight
AWBA Max M&I	20%	
Surface Water Scenario	3	1=No Reduction; 2=Occational; 3=Frequent
Use CAP Buildup	Yes	
CAP Buildup Scenario	2	1=2035; 2=2045
HU Growth Pattern	3	4=Interior Growth
HU Forecast	2	1=Use Curve; 2=Eller Forecast
HU Curve	2	
HU Growth Start Rate	0%	
HU Ordinary Level	49,300	
HU Rate @ 50 yrs	1%	
GPHUD Change Existing	-0.3%	per year
GPHUD Max Change Existing	-12%	
GPHUD Min Existing	220	
GPHUD Scenario New	1	
GPHUD Change New	0.0%	per year
Ag Climate Adjustment	0.15	
Ag Efficiency Increase	0.1%	per year
Ag Efficiency Goal	80%	
Ag Replace Crop CU	2.66	
Ag Intensity Scenario	2	
Ag Develop on Crops	30%	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



A. Highest Demand [EMSBS]

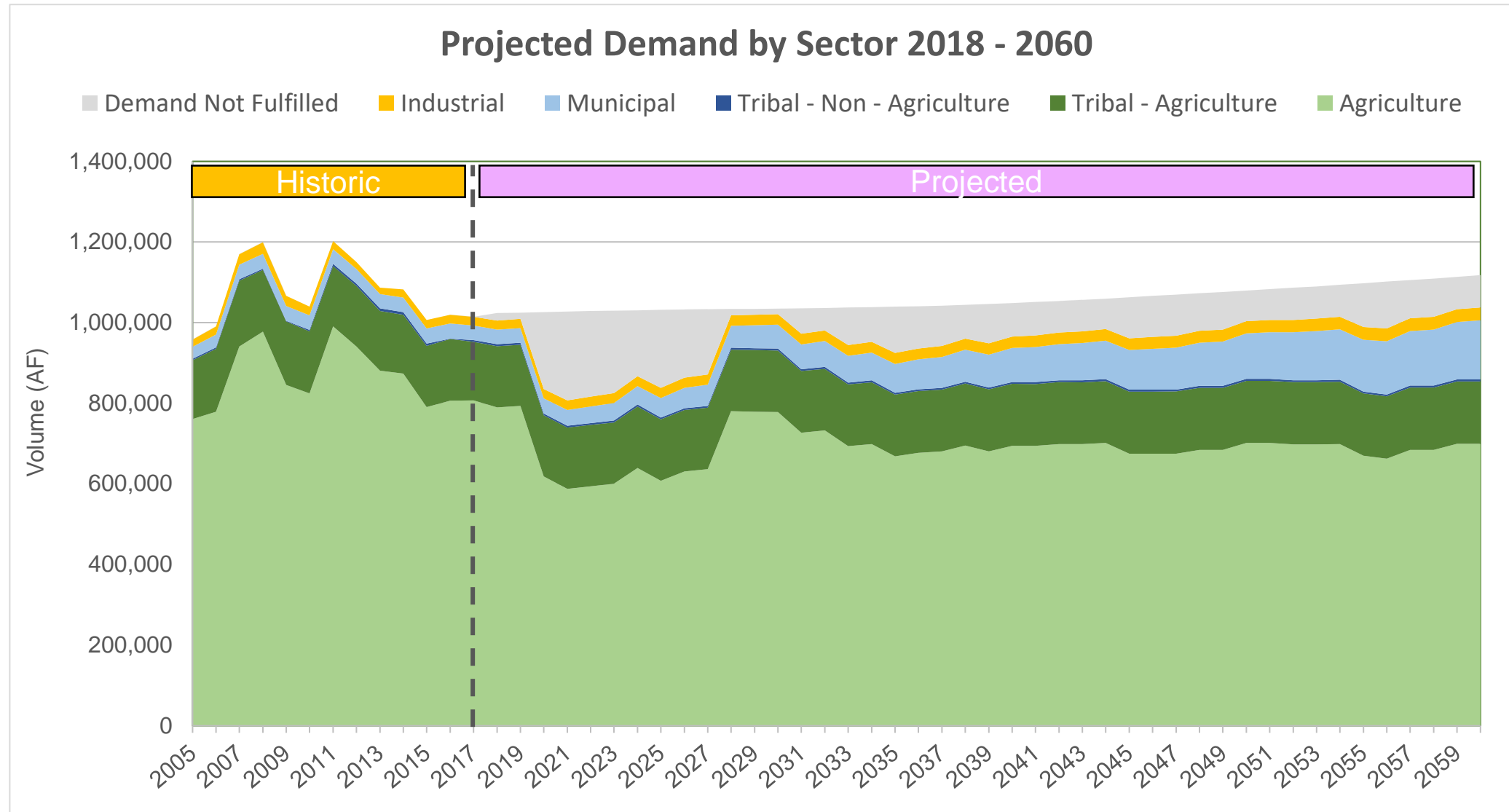


[Muni + Ag + Tribal + Industrial]

Central Arizona Project Service Area Model

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High growth rate, spillover (suburban) growth pattern, hotter and drier climate, Ag pumping capacity equals 1.5x the max gw use from 2010 to 2015



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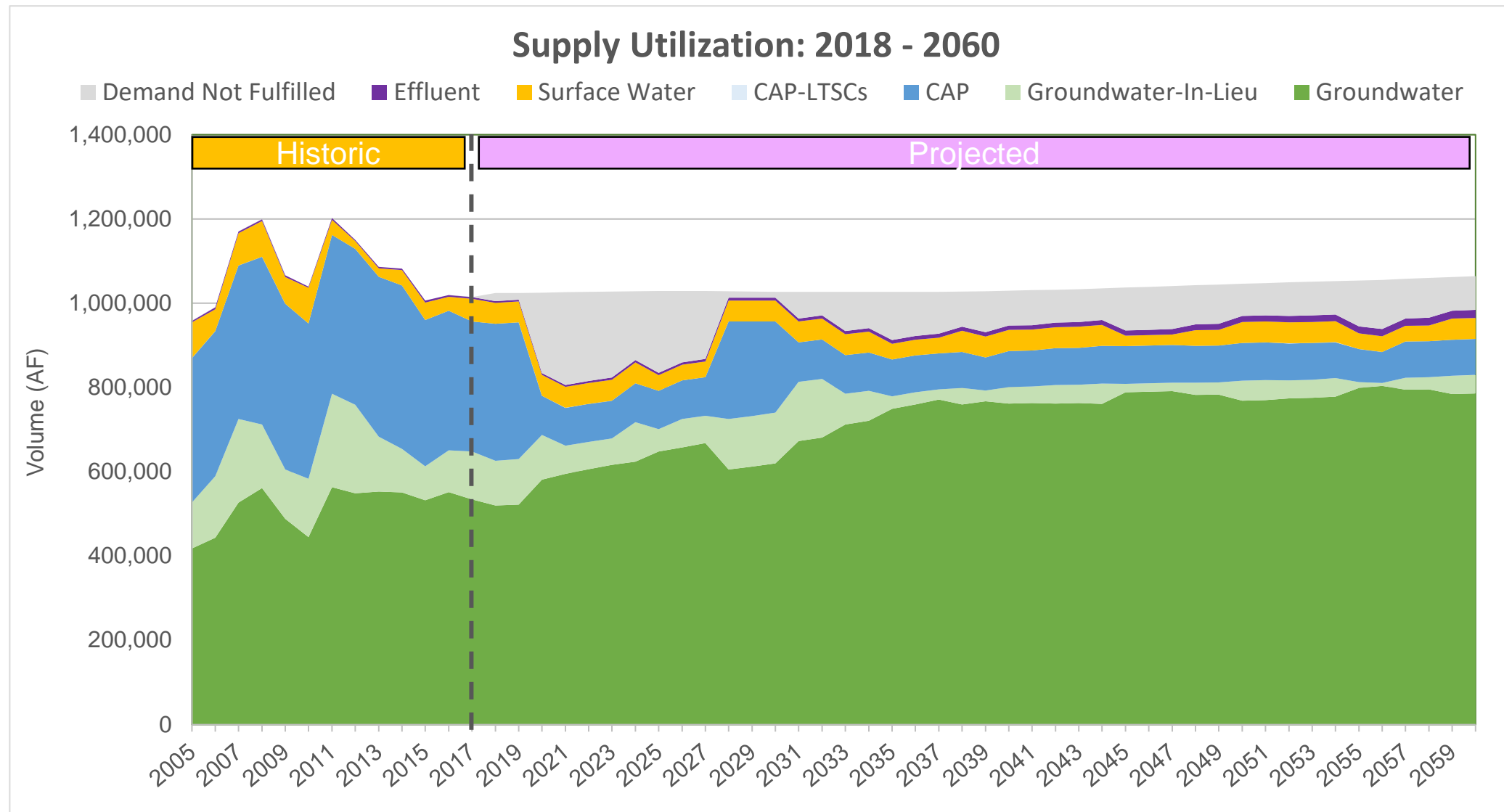
Demand By Sector

Date	Agriculture	Municipal	Industrial	Tribal
2018	789,923	36,156	22,274	156,499
2019	793,435	36,712	22,426	156,577
2020	618,204	37,594	22,596	156,654
2021	587,642	39,028	23,781	156,734
2022	594,294	41,083	24,554	156,813
2023	600,336	43,314	24,851	156,891
2024	639,858	45,597	25,044	156,965
2025	607,759	47,840	25,239	157,048
2026	630,662	50,117	25,434	157,127
2027	636,466	52,412	25,629	157,205
2028	780,392	54,771	25,825	157,277
2029	779,290	57,027	26,020	157,363
2030	778,137	59,330	26,215	157,442
2031	727,048	61,632	26,411	157,520
2032	732,635	64,081	26,607	157,590
2033	693,870	66,470	26,802	157,678
2034	699,035	68,960	26,999	157,757
2035	668,459	71,449	27,195	157,836
2036	676,803	74,041	27,391	157,903
2037	680,395	76,445	27,588	157,994
2038	695,499	79,050	27,786	158,073
2039	681,057	81,734	27,983	158,152
2040	694,760	84,551	28,181	158,217
2041	694,334	87,113	28,380	158,311
2042	698,733	89,809	28,579	158,390
2043	698,501	92,552	28,779	158,469
2044	701,385	95,541	28,979	158,531
2045	675,035	98,259	29,179	158,628
2046	675,110	101,143	29,381	158,707
2047	675,182	104,036	29,583	158,787
2048	684,132	107,127	29,786	158,846
2049	684,119	109,860	29,989	158,946
2050	701,505	112,807	30,194	159,025
2051	701,536	115,767	30,399	159,105
2052	698,056	118,959	30,605	159,162
2053	698,041	121,900	30,812	159,264
2054	698,820	125,268	31,020	159,344
2055	669,626	128,675	31,229	159,423
2056	662,283	132,357	31,439	159,478
2057	684,315	135,525	31,651	159,583
2058	684,300	138,955	31,863	159,663
2059	699,162	142,402	32,076	159,743
2060	699,303	146,472	32,291	159,795

Central Arizona Project Service Area Model

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High growth rate, spillover (suburban) growth pattern, hotter and drier climate, Ag pumping capacity equals 1.5x the max gw use from 2010 to 2015



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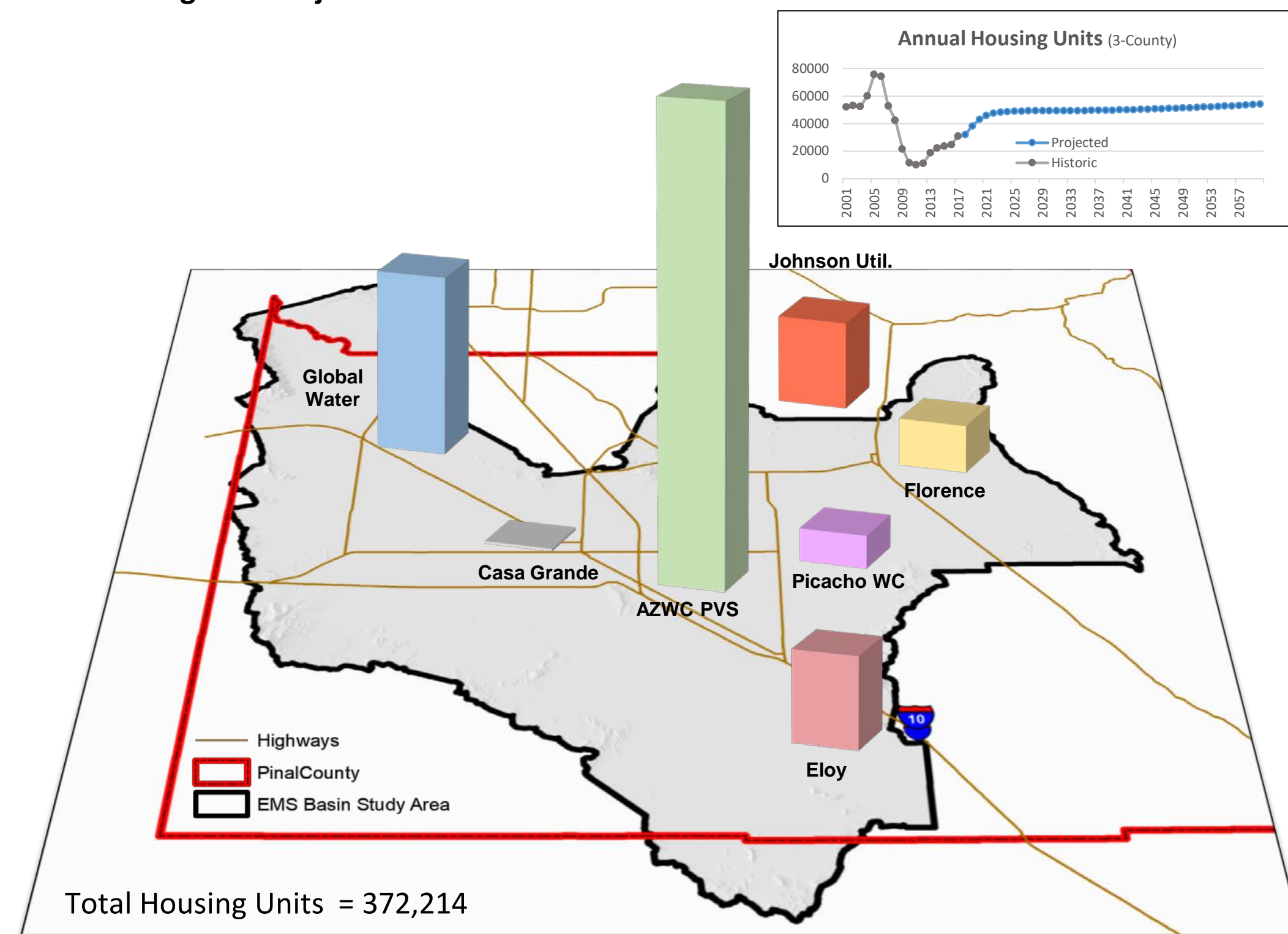
Supply Utilization

Date	Effluent	Surface Water	CAP	CAP LTSCs	Groundwater	Groundwater - In-Lieu	Groundwater - Replenished	Unknown
2018	3,984	49,650	324,593	136	519,323	106,759	407	19,373
2019	4,067	49,650	324,631	129	522,175	107,786	711	15,707
2020	4,227	49,650	92,974	123	581,025	106,137	913	190,712
2021	4,438	49,650	89,846	117	595,047	66,970	1,118	220,108
2022	4,689	49,650	89,657	111	606,082	65,098	1,458	211,944
2023	4,959	49,650	89,425	105	616,771	62,627	1,854	204,349
2024	5,240	49,650	92,168	100	624,339	93,647	2,322	163,243
2025	5,523	37,238	90,677	95	648,509	53,042	2,802	193,780
2026	5,811	37,238	91,774	91	657,624	67,439	3,364	169,224
2027	6,102	37,238	91,601	86	668,014	64,715	3,957	161,439
2028	6,399	49,650	231,619	82	605,405	119,951	5,158	15,497
2029	6,695	49,650	224,043	78	612,303	120,181	6,750	14,651
2030	6,996	49,650	216,532	74	619,951	120,237	7,685	13,817
2031	7,302	49,650	93,644	70	672,694	140,617	8,632	62,914
2032	7,624	49,650	93,677	67	680,984	139,301	9,609	55,498
2033	7,947	49,650	91,044	64	712,566	72,997	10,552	92,613
2034	8,279	49,650	90,959	61	721,058	71,207	11,537	85,744
2035	8,618	37,238	87,710	58	749,791	28,990	12,536	114,612
2036	8,970	37,238	87,682	55	759,665	28,953	13,576	104,500
2037	9,314	37,238	85,453	52	771,405	24,096	14,864	99,405
2038	9,661	49,650	85,429	50	759,859	39,450	16,310	83,696
2039	10,016	49,650	78,505	47	767,499	25,255	17,954	97,537
2040	10,390	49,650	85,377	45	762,192	39,221	18,835	83,161
2041	10,750	49,650	85,360	43	763,246	39,033	20,056	83,053
2042	11,118	49,650	87,554	41	761,725	44,064	21,358	78,039
2043	11,494	49,650	87,533	39	762,962	43,883	22,740	78,031
2044	11,887	49,650	89,392	37	761,088	48,140	24,242	75,241
2045	12,272	24,825	89,373	35	788,867	20,029	25,700	101,852
2046	12,672	24,825	89,409	33	790,120	20,066	27,215	101,951
2047	13,084	24,825	89,445	32	791,361	20,104	28,736	102,051
2048	13,519	37,238	87,436	30	782,314	29,034	30,321	93,179
2049	13,931	37,238	87,478	29	783,417	28,972	31,851	93,426
2050	14,352	49,650	89,554	27	768,708	47,676	33,564	76,165
2051	14,787	49,650	89,590	26	769,845	47,625	35,282	76,262
2052	15,252	49,650	87,570	25	774,378	42,835	37,073	79,755
2053	15,695	49,650	87,613	24	775,465	42,770	38,801	80,038
2054	16,165	49,650	85,356	23	778,672	43,517	41,069	79,415
2055	16,662	37,238	78,005	21	798,874	14,293	43,862	108,765
2056	17,192	37,238	73,919	20	803,831	6,939	46,419	116,144
2057	17,690	37,238	85,450	20	794,587	28,912	47,177	94,474
2058	18,200	37,238	85,482	19	795,746	28,862	49,235	94,719
2059	18,729	49,650	85,513	18	784,491	43,687	51,296	80,093
2060	19,319	49,650	85,534	17	785,991	43,819	53,532	80,024

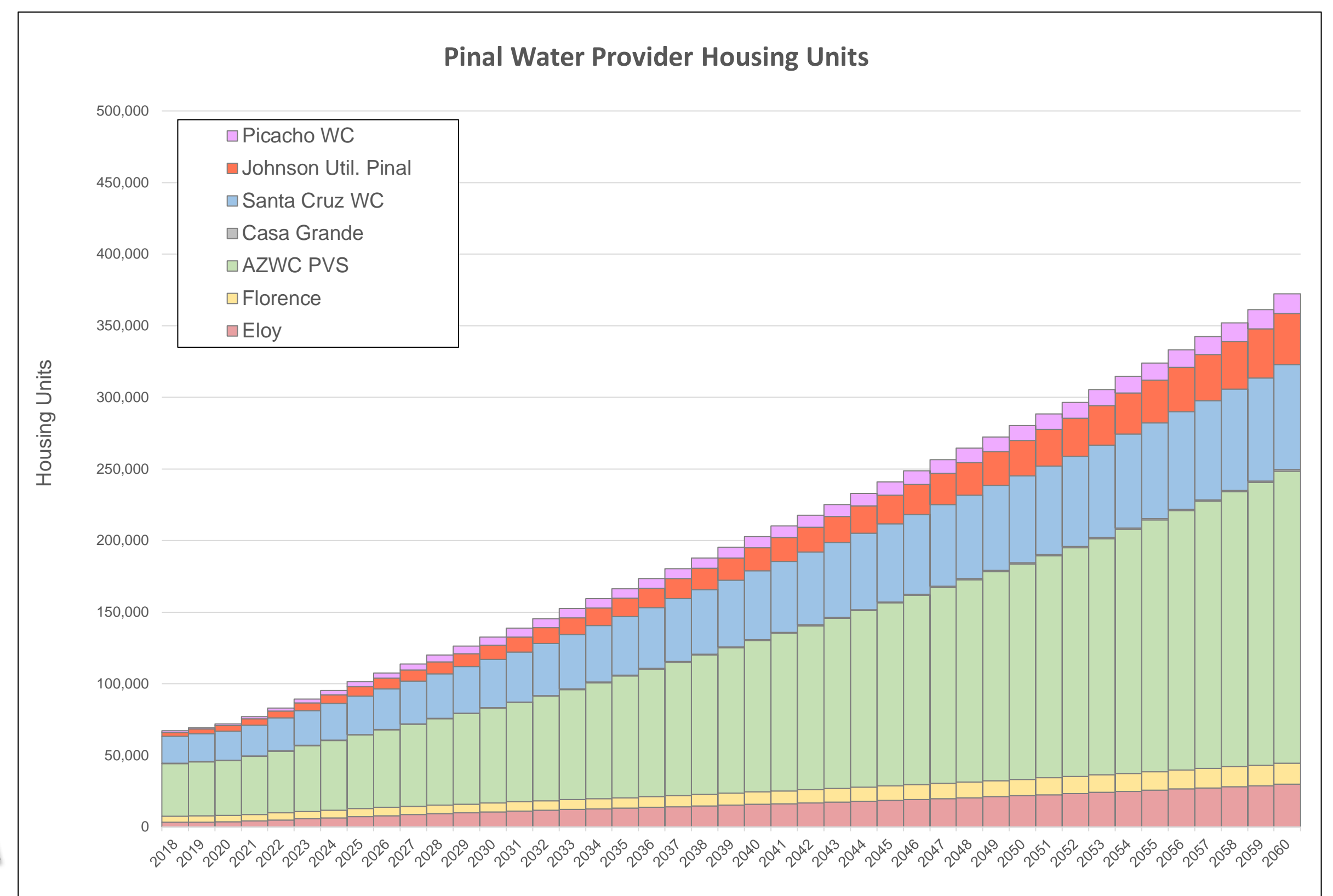
A. Highest Demand [EMSBS]

Supply Utilization, 2060

Housing Unit Projection: **Suburban Growth**

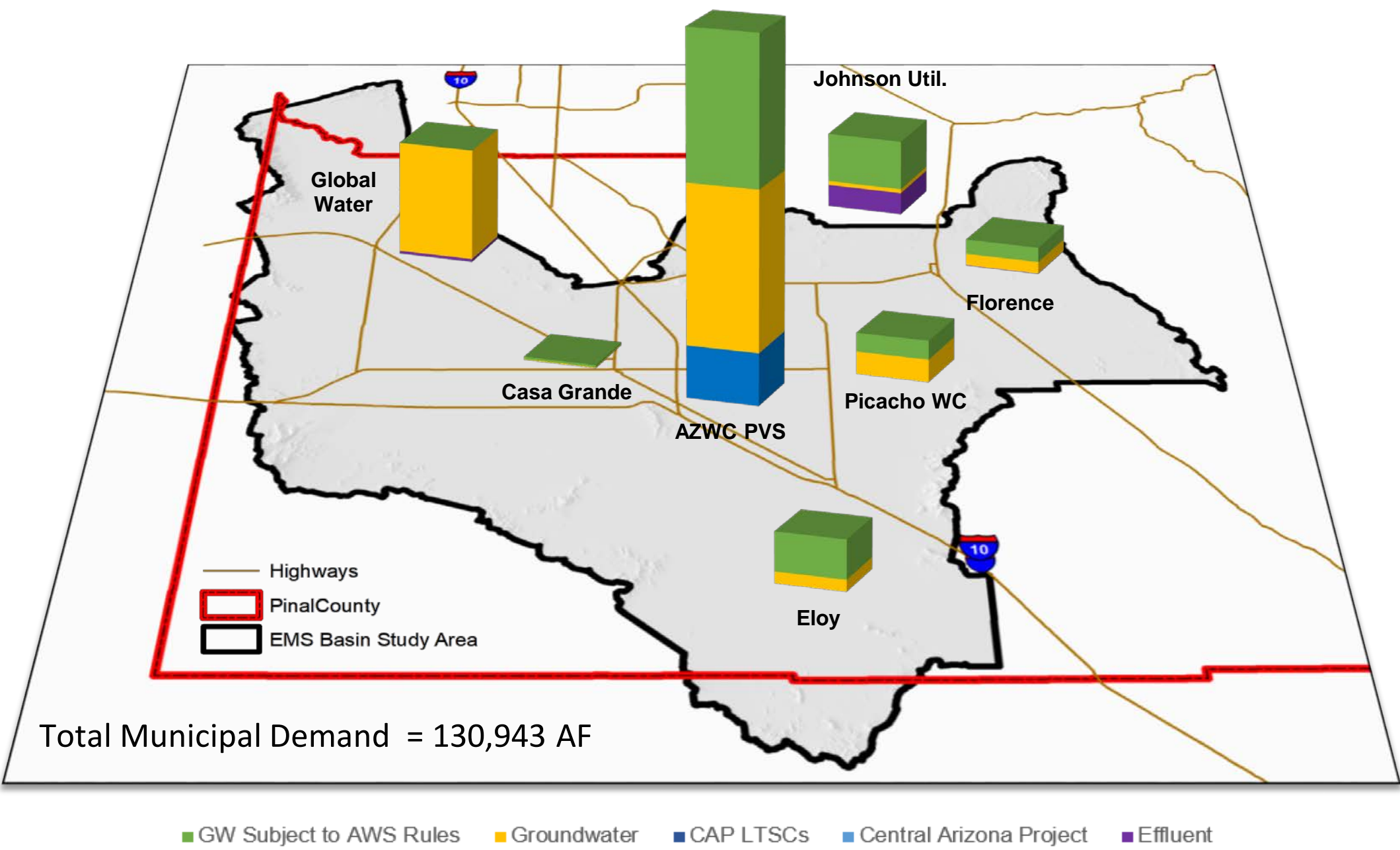


High growth rate, spillover (suburban) growth pattern, hotter and drier climate, Ag pumping capacity equals 1.5x the max gw use from 2010 to 2015

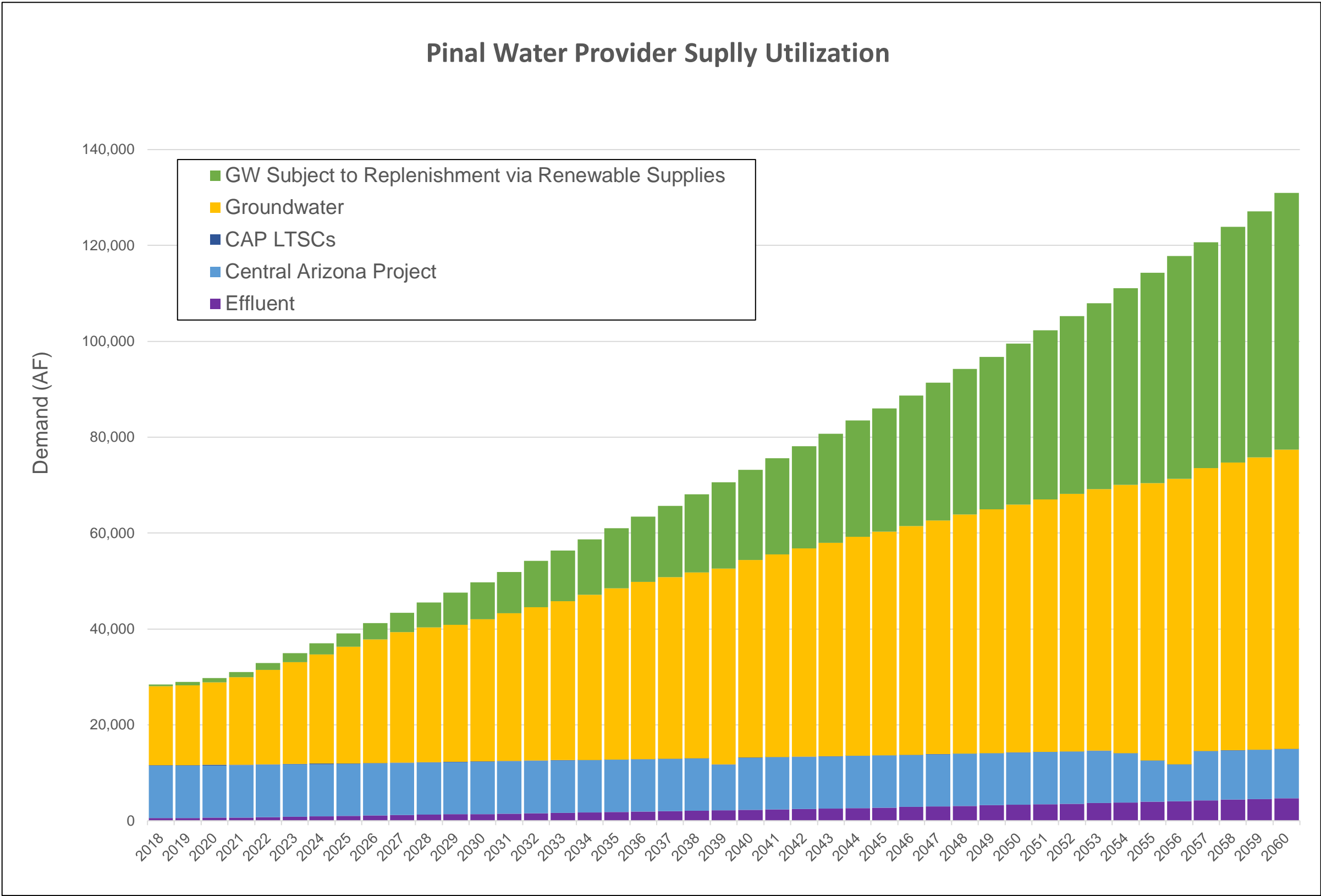


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Supply Utilization, 2060



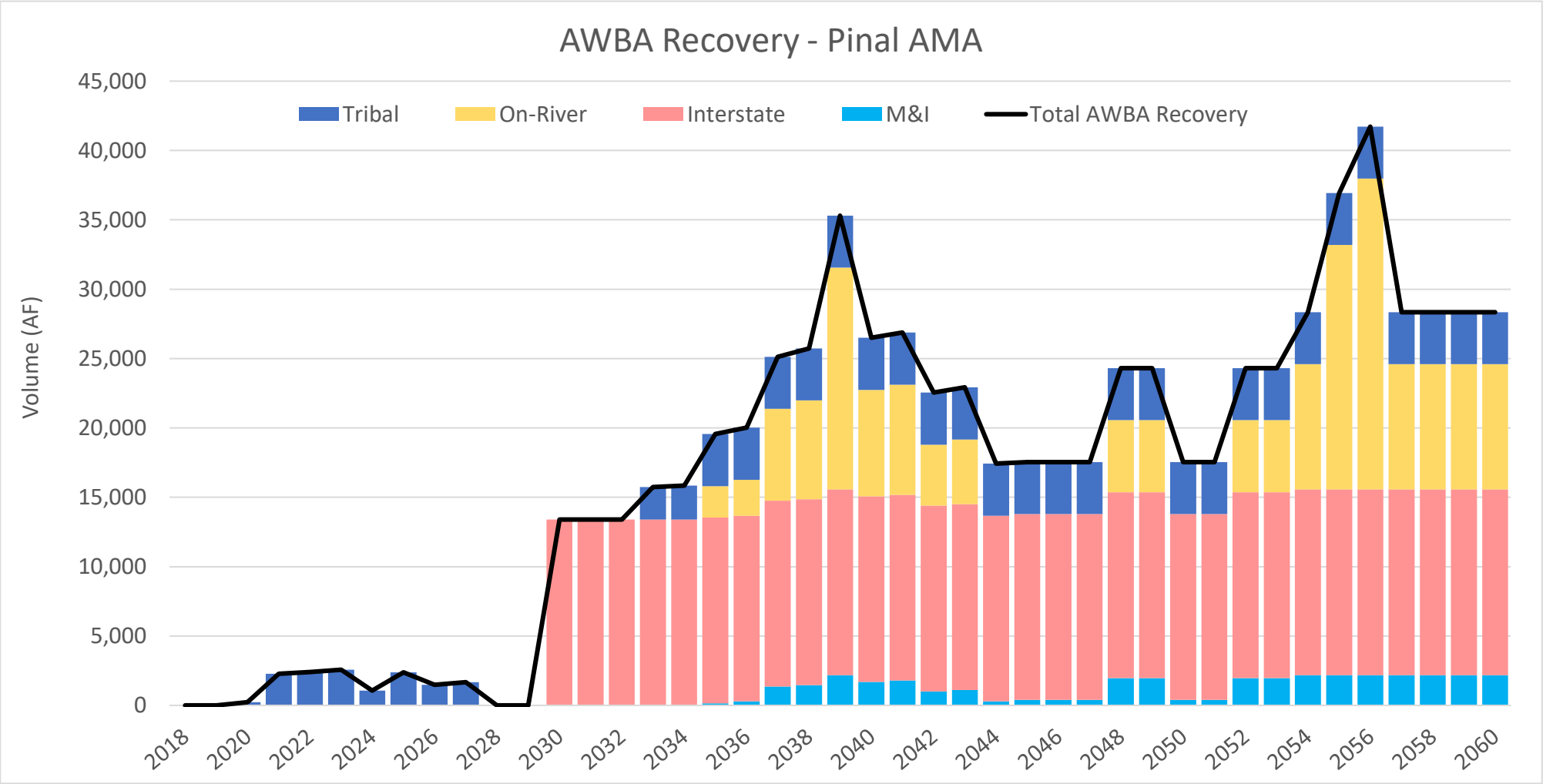
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Central Arizona Project Service Area Model

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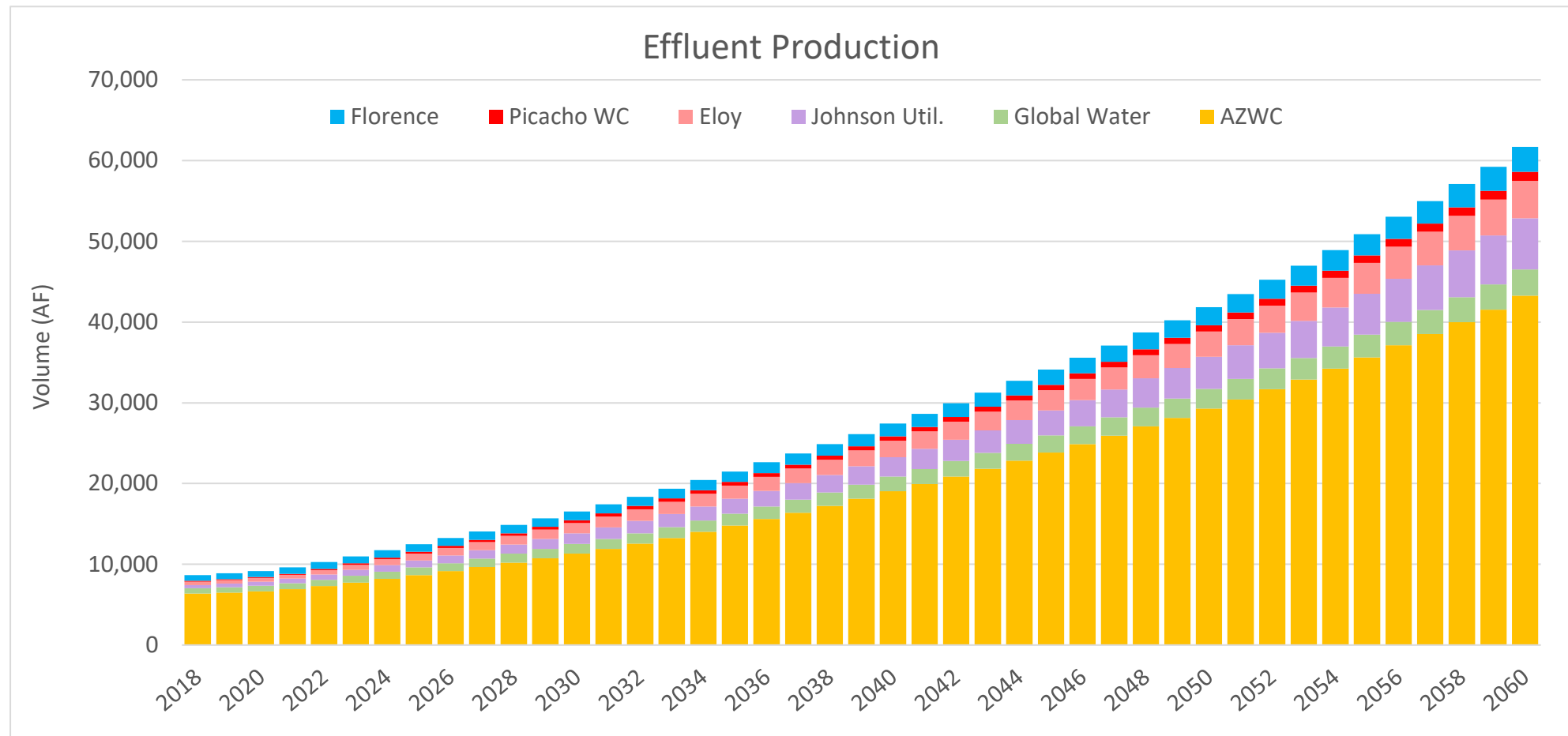
AWBA Recovery

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	2,411	2,411
2023	0	0	0	2,576	2,576
2024	0	0	0	1,072	1,072
2025	0	0	0	2,379	2,379
2026	0	0	0	1,483	1,483
2027	0	0	0	1,668	1,668
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	2,349	15,742
2034	0	13,393	0	2,457	15,849
2035	155	13,393	2,257	3,750	19,554
2036	285	13,393	2,593	3,750	20,021
2037	1,354	13,393	6,632	3,750	25,129
2038	1,467	13,393	7,122	3,750	25,732
2039	2,177	13,393	15,988	3,750	35,308
2040	1,685	13,393	7,672	3,750	26,500
2041	1,790	13,393	7,944	3,750	26,878
2042	1,006	13,393	4,396	3,750	22,545
2043	1,117	13,393	4,666	3,750	22,925
2044	286	13,393	0	3,750	17,429
2045	399	13,393	0	3,750	17,542
2046	399	13,393	0	3,750	17,542
2047	399	13,393	0	3,750	17,542
2048	1,963	13,393	5,205	3,750	24,311
2049	1,963	13,393	5,205	3,750	24,311
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	17,622	3,750	36,942
2056	2,177	13,393	22,398	3,750	41,718
2057	2,177	13,393	9,026	3,750	28,345
2058	2,177	13,393	9,026	3,750	28,345
2059	2,177	13,393	9,026	3,750	28,345
2060	2,177	13,393	9,026	3,750	28,345

Central Arizona Project Service Area Model

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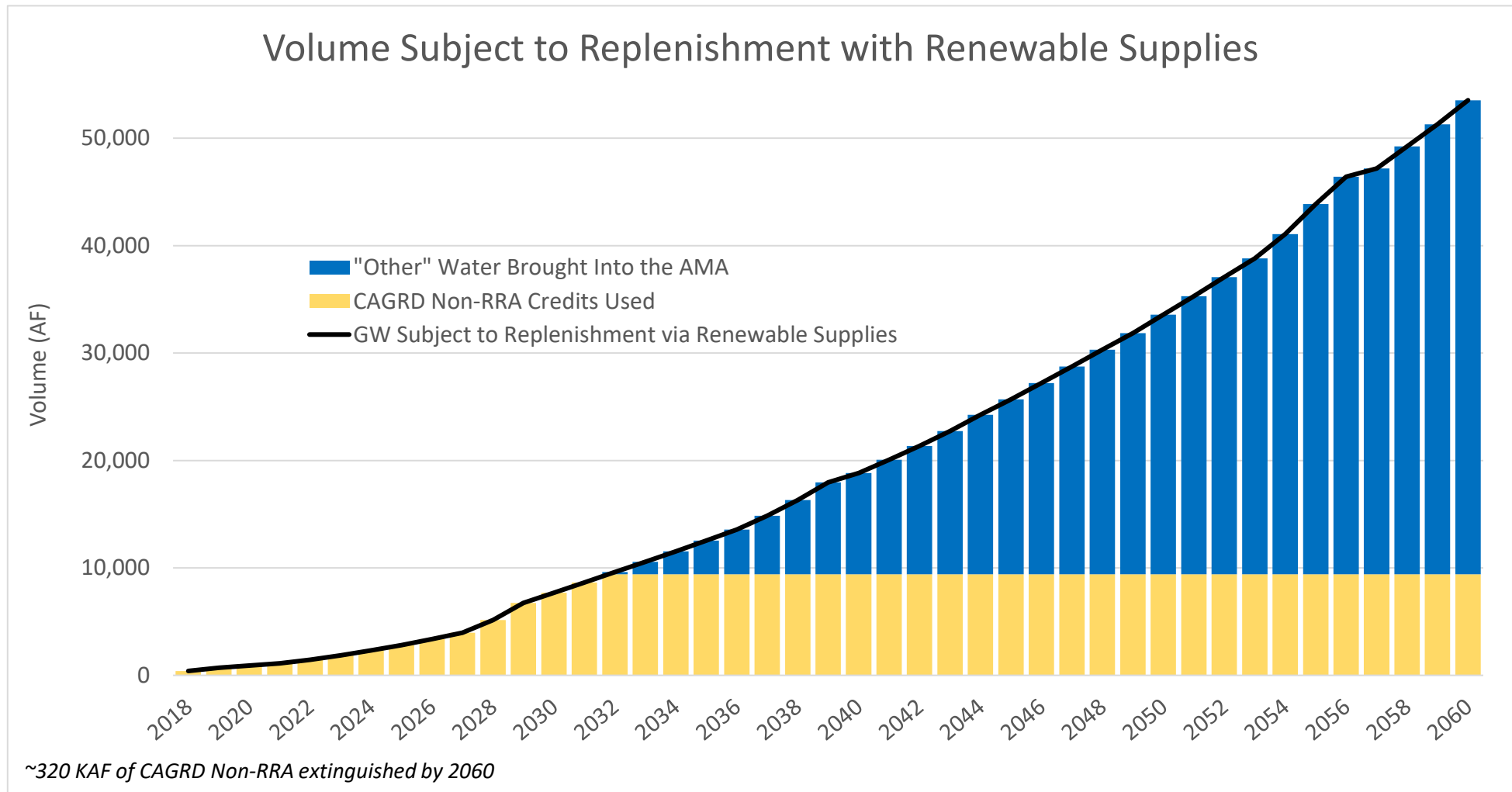
Effluent Production

Date	Eloy	Florence	AZWC	Casa Grande	Global Water	Johnson Utilities	Picaco WC	Total
2018	427	708	6,367	0	665	394	101	8,662
2019	435	729	6,484	0	685	434	107	8,874
2020	446	760	6,642	0	713	496	116	9,173
2021	485	794	6,905	0	748	564	130	9,625
2022	560	828	7,303	0	791	638	152	10,272
2023	647	863	7,747	0	838	716	176	10,987
2024	737	901	8,208	0	887	797	200	11,731
2025	829	937	8,673	0	936	879	225	12,479
2026	922	975	9,155	0	986	963	251	13,252
2027	1,009	1,006	9,668	0	1,036	1,051	279	14,049
2028	1,092	1,033	10,217	0	1,088	1,144	308	14,883
2029	1,174	1,059	10,758	0	1,138	1,236	337	15,702
2030	1,259	1,087	11,319	0	1,190	1,330	367	16,552
2031	1,346	1,114	11,890	0	1,243	1,427	398	17,418
2032	1,431	1,150	12,541	0	1,300	1,528	423	18,373
2033	1,504	1,192	13,253	0	1,357	1,625	435	19,366
2034	1,579	1,239	14,016	0	1,418	1,727	445	20,424
2035	1,655	1,287	14,795	0	1,479	1,830	456	21,502
2036	1,735	1,337	15,612	0	1,544	1,940	467	22,635
2037	1,811	1,386	16,400	0	1,605	2,044	478	23,724
2038	1,892	1,443	17,245	0	1,669	2,156	494	24,898
2039	1,975	1,505	18,123	0	1,733	2,272	514	26,121
2040	2,064	1,571	19,049	0	1,801	2,396	535	27,415
2041	2,145	1,633	19,930	0	1,865	2,511	554	28,639
2042	2,233	1,699	20,861	0	1,932	2,635	575	29,936
2043	2,326	1,765	21,818	0	2,000	2,768	598	31,274
2044	2,431	1,831	22,853	0	2,068	2,929	623	32,735
2045	2,531	1,891	23,835	0	2,128	3,088	647	34,120
2046	2,638	1,955	24,878	0	2,193	3,257	673	35,596
2047	2,748	2,020	25,943	0	2,260	3,430	700	37,101
2048	2,866	2,090	27,083	0	2,332	3,615	729	38,714
2049	2,979	2,156	28,139	0	2,395	3,789	754	40,213
2050	3,108	2,227	29,271	0	2,464	3,979	782	41,830
2051	3,240	2,300	30,426	0	2,533	4,174	810	43,482
2052	3,382	2,378	31,669	0	2,608	4,383	841	45,261
2053	3,518	2,453	32,869	0	2,677	4,585	868	46,969
2054	3,671	2,538	34,228	0	2,752	4,814	899	48,903
2055	3,828	2,625	35,627	0	2,829	5,050	931	50,890
2056	3,998	2,718	37,134	0	2,913	5,304	966	53,034
2057	4,148	2,804	38,513	0	2,987	5,538	997	54,987
2058	4,305	2,897	40,001	0	3,069	5,789	1,031	57,092
2059	4,466	2,991	41,522	0	3,152	6,046	1,065	59,242
2060	4,652	3,099	43,270	0	3,248	6,340	1,105	61,713

Central Arizona Project Service Area Model

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High growth rate, spillover (suburban) growth pattern, hotter and drier climate, Ag pumping capacity equals 1.5x the max gw use from 2010 to 2015



A. Highest Demand [EMSBS]

AWS Replenishment

Date	GW Subject to AWS Rules	CAGR Non-RRA LTSCs Used	Other Water
2018	407	407	0
2019	711	711	0
2020	913	913	0
2021	1,118	1,118	0
2022	1,458	1,458	0
2023	1,854	1,854	0
2024	2,322	2,322	0
2025	2,802	2,802	0
2026	3,364	3,364	0
2027	3,957	3,957	0
2028	5,158	5,158	0
2029	6,750	6,750	0
2030	7,685	7,685	0
2031	8,632	8,632	0
2032	9,609	9,419	190
2033	10,552	9,419	1,134
2034	11,537	9,419	2,118
2035	12,536	9,419	3,117
2036	13,576	9,419	4,157
2037	14,864	9,419	5,446
2038	16,310	9,419	6,891
2039	17,954	9,419	8,535
2040	18,835	9,419	9,416
2041	20,056	9,419	10,637
2042	21,358	9,419	11,939
2043	22,740	9,419	13,321
2044	24,242	9,419	14,823
2045	25,700	9,419	16,281
2046	27,215	9,419	17,796
2047	28,736	9,419	19,317
2048	30,321	9,419	20,902
2049	31,851	9,419	22,432
2050	33,564	9,419	24,145
2051	35,282	9,419	25,863
2052	37,073	9,419	27,654
2053	38,801	9,419	29,382
2054	41,069	9,419	31,650
2055	43,862	9,419	34,443
2056	46,419	9,419	37,000
2057	47,177	9,419	37,758
2058	49,235	9,419	39,816
2059	51,296	9,419	41,877
2060	53,532	9,419	44,113