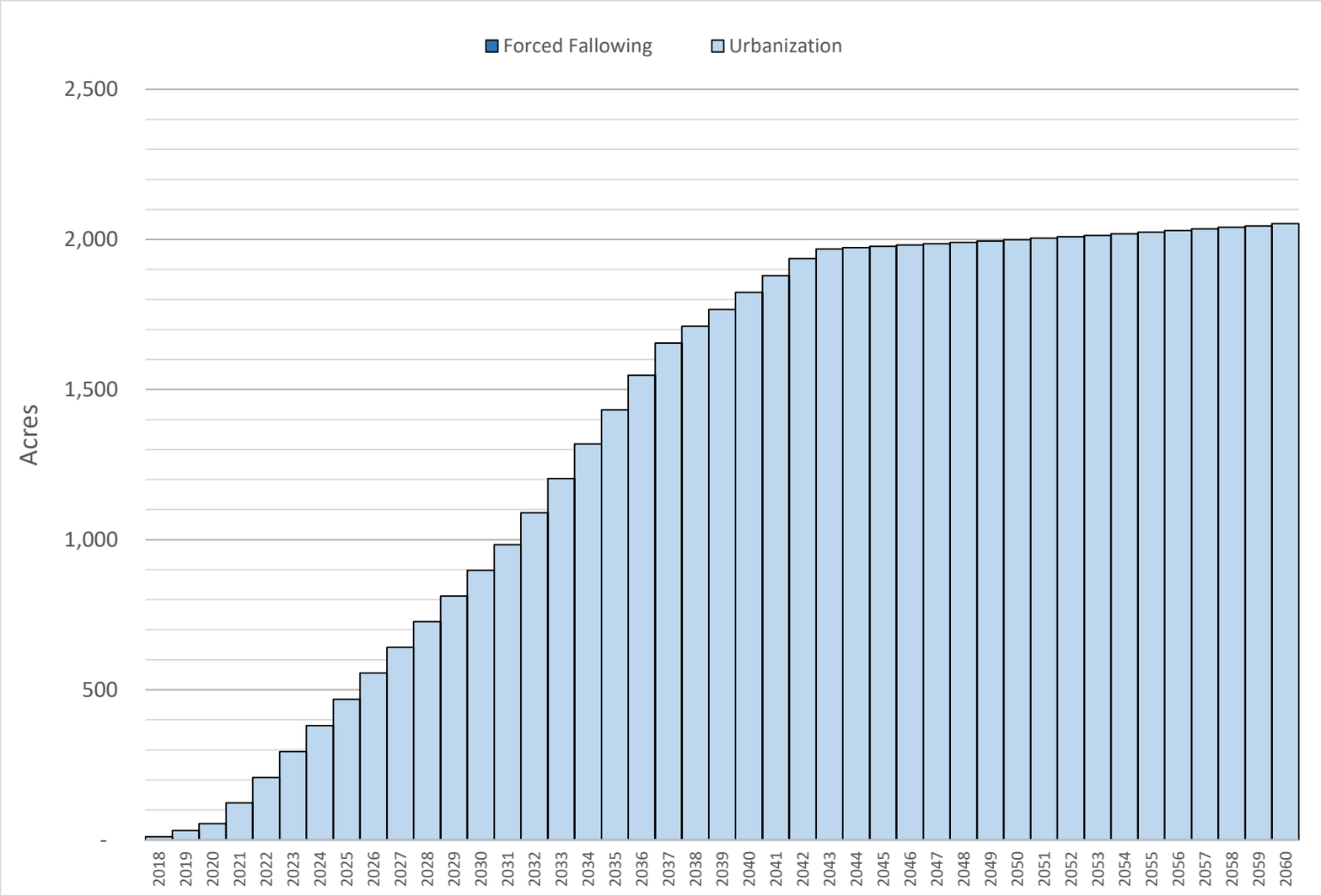
Central Arizona Project Service Area Model

Reduction in Agricultural Acres

A. Highest Demand [EMSBS]

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



SCIDD

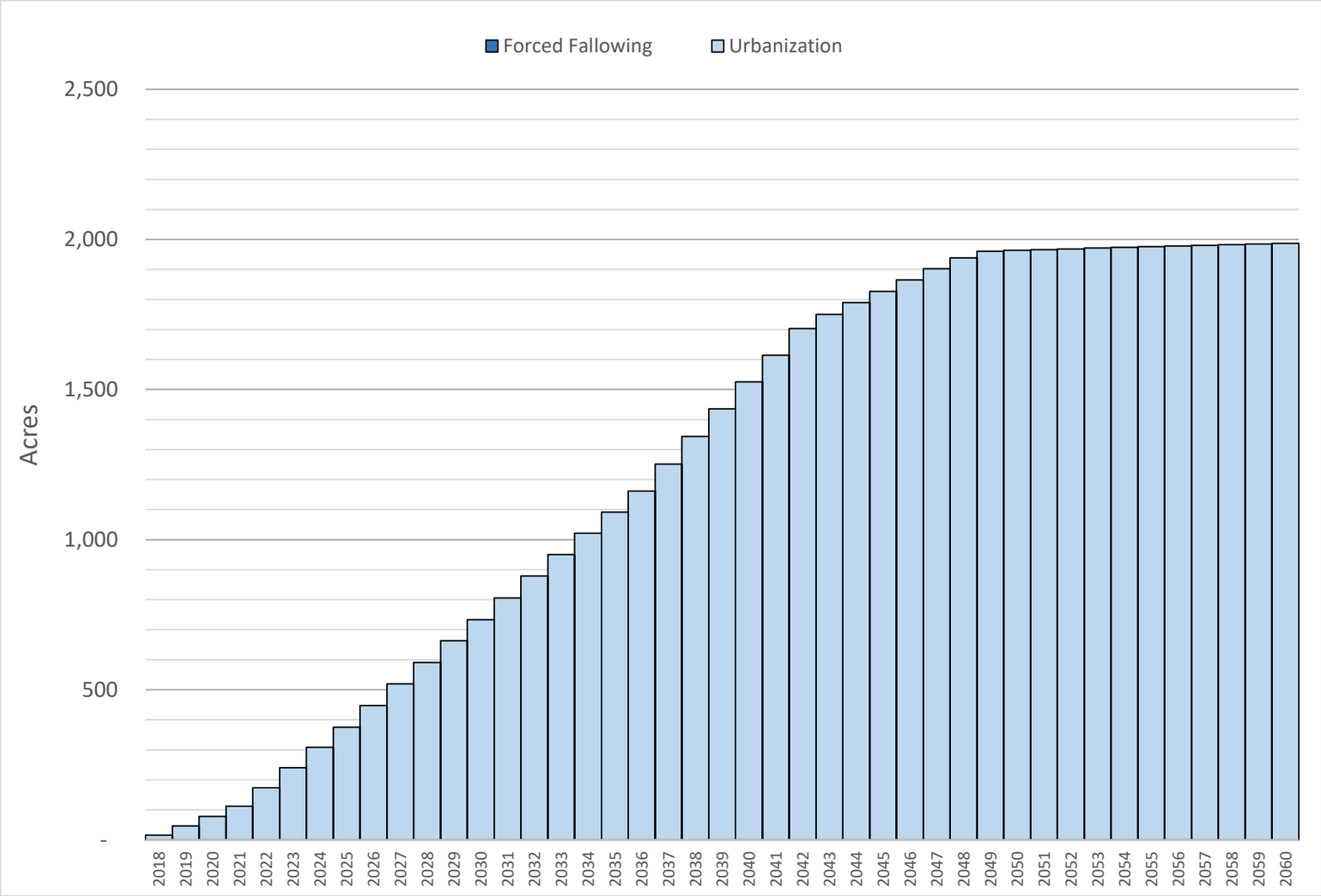
	Reduction in Ag Acres	
Date	Urbanization	Forced Fallowing
2018	11	0
2019	31	0
2020	54	0
2021	123	0
2022	208	0
2023	294	0
2024	381	0
2025	468	0
2026	556	0
2027	641	0
2028	727	0
2029	812	0
2030	898	0
2031	983	0
2032	1,089	0
2033	1,204	0
2034	1,318	0
2035	1,433	0
2036	1,548	0
2037	1,654	0
2038	1,711	0
2039	1,767	0
2040	1,823	0
2041	1,880	0
2042	1,936	0
2043	1,968	0
2044	1,972	0
2045	1,977	0
2046	1,981	0
2047	1,986	0
2048	1,991	0
2049	1,995	0
2050	1,999	0
2051	2,004	0
2052	2,009	0
2053	2,014	0
2054	2,019	0
2055	2,024	0
2056	2,030	0
2057	2,035	0
2058	2,040	0
2059	2,046	0
2060	2,052	0

Central Arizona Project Service Area Model

Reduction in Agricultural Acres

B. Having it All [EMSBS]

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



SCIDD

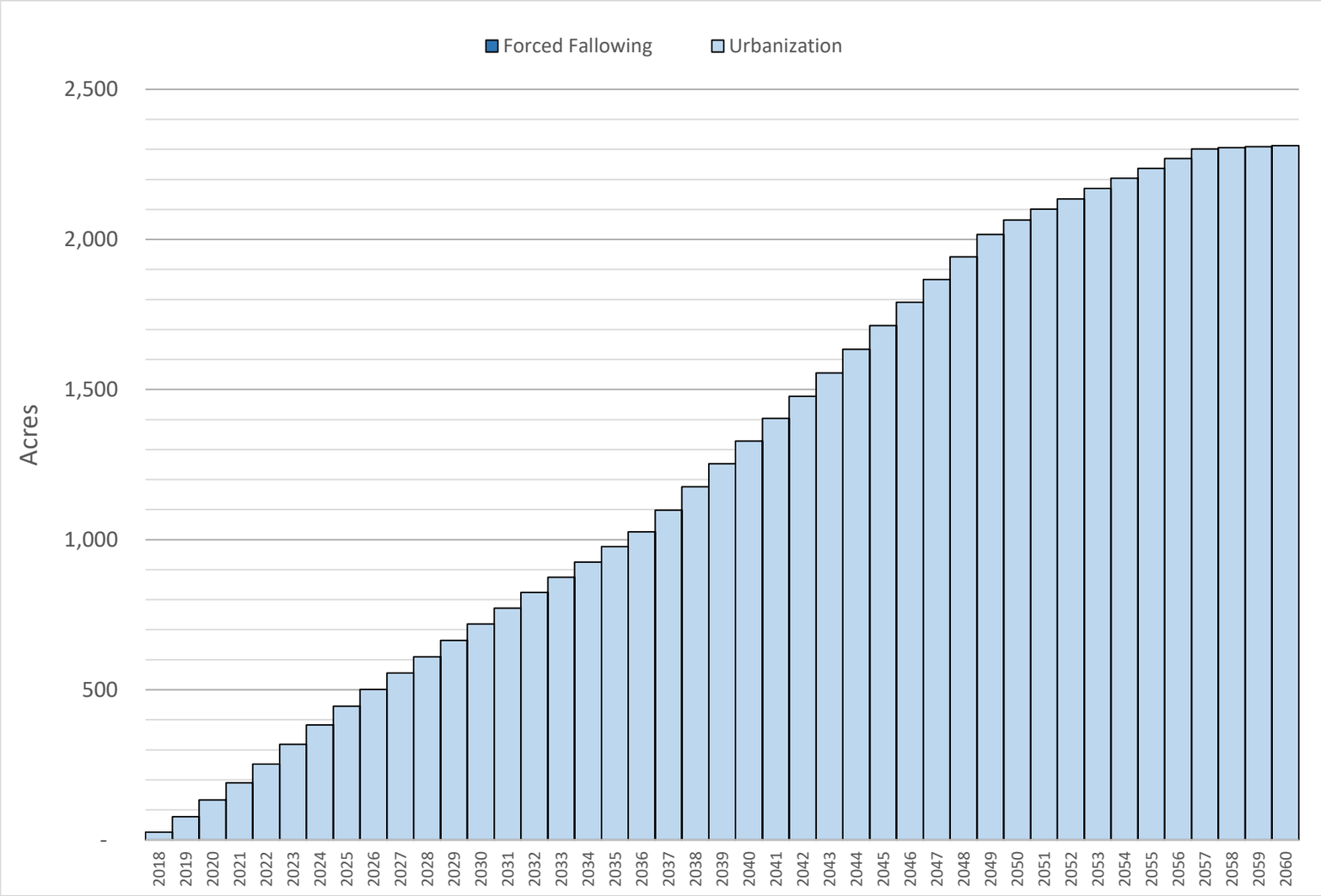
	Reduction in Ag Acres	
Date	**Urbanization**	**Forced Fallowing**
2018	15	0
2019	46	0
2020	79	0
2021	112	0
2022	174	0
2023	241	0
2024	308	0
2025	375	0
2026	448	0
2027	520	0
2028	591	0
2029	663	0
2030	734	0
2031	806	0
2032	879	0
2033	950	0
2034	1,021	0
2035	1,092	0
2036	1,162	0
2037	1,252	0
2038	1,344	0
2039	1,435	0
2040	1,525	0
2041	1,614	0
2042	1,703	0
2043	1,750	0
2044	1,789	0
2045	1,827	0
2046	1,865	0
2047	1,902	0
2048	1,939	0
2049	1,961	0
2050	1,964	0
2051	1,966	0
2052	1,969	0
2053	1,971	0
2054	1,974	0
2055	1,976	0
2056	1,978	0
2057	1,981	0
2058	1,983	0
2059	1,985	0
2060	1,987	0

Central Arizona Project Service Area Model

Reduction in Agricultural Acres

C. Medium, Strong Ag [EMSBS]

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



SCIDD

	Reduction in Ag Acres	
Date	Urbanization	Forced Fallowing
2018	25	0
2019	77	0
2020	132	0
2021	190	0
2022	252	0
2023	318	0
2024	383	0
2025	445	0
2026	501	0
2027	555	0
2028	610	0
2029	665	0
2030	719	0
2031	772	0
2032	824	0
2033	875	0
2034	926	0
2035	976	0
2036	1,026	0
2037	1,098	0
2038	1,176	0
2039	1,253	0
2040	1,329	0
2041	1,404	0
2042	1,478	0
2043	1,555	0
2044	1,635	0
2045	1,713	0
2046	1,791	0
2047	1,867	0
2048	1,942	0
2049	2,016	0
2050	2,065	0
2051	2,100	0
2052	2,135	0
2053	2,170	0
2054	2,204	0
2055	2,237	0
2056	2,270	0
2057	2,301	0
2058	2,306	0
2059	2,309	0
2060	2,312	0

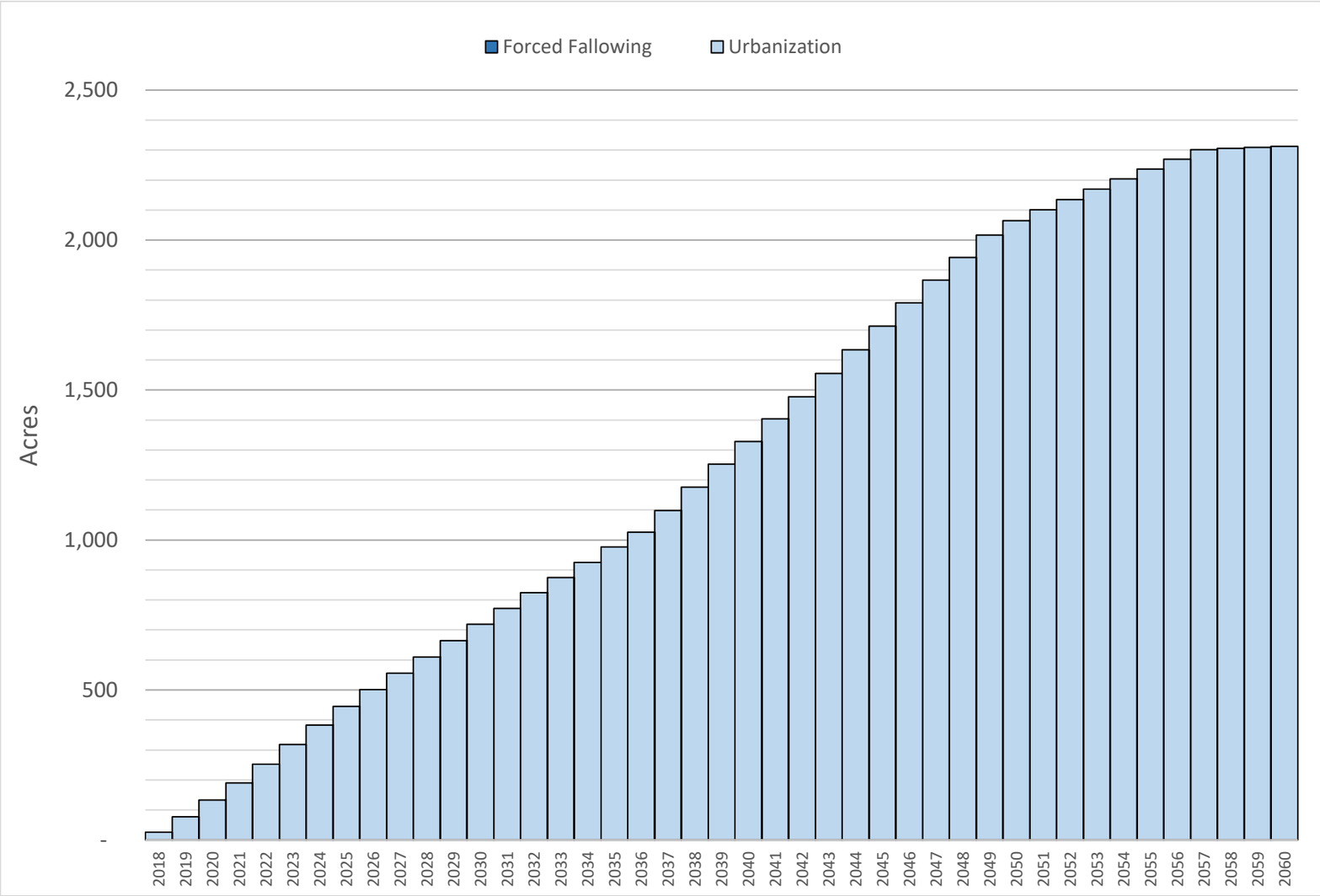
Central Arizona Project Service Area Model

Reduction in Agricultural Acres

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.



SCIDD

	Reduction in Ag Acres	
Date	Urbanization	Forced Fallowing
2018	25	0
2019	77	0
2020	132	0
2021	190	0
2022	252	0
2023	318	0
2024	383	0
2025	445	0
2026	501	0
2027	555	0
2028	610	0
2029	665	0
2030	719	0
2031	772	0
2032	824	0
2033	875	0
2034	926	0
2035	976	0
2036	1,026	0
2037	1,098	0
2038	1,176	0
2039	1,253	0
2040	1,329	0
2041	1,404	0
2042	1,478	0
2043	1,555	0
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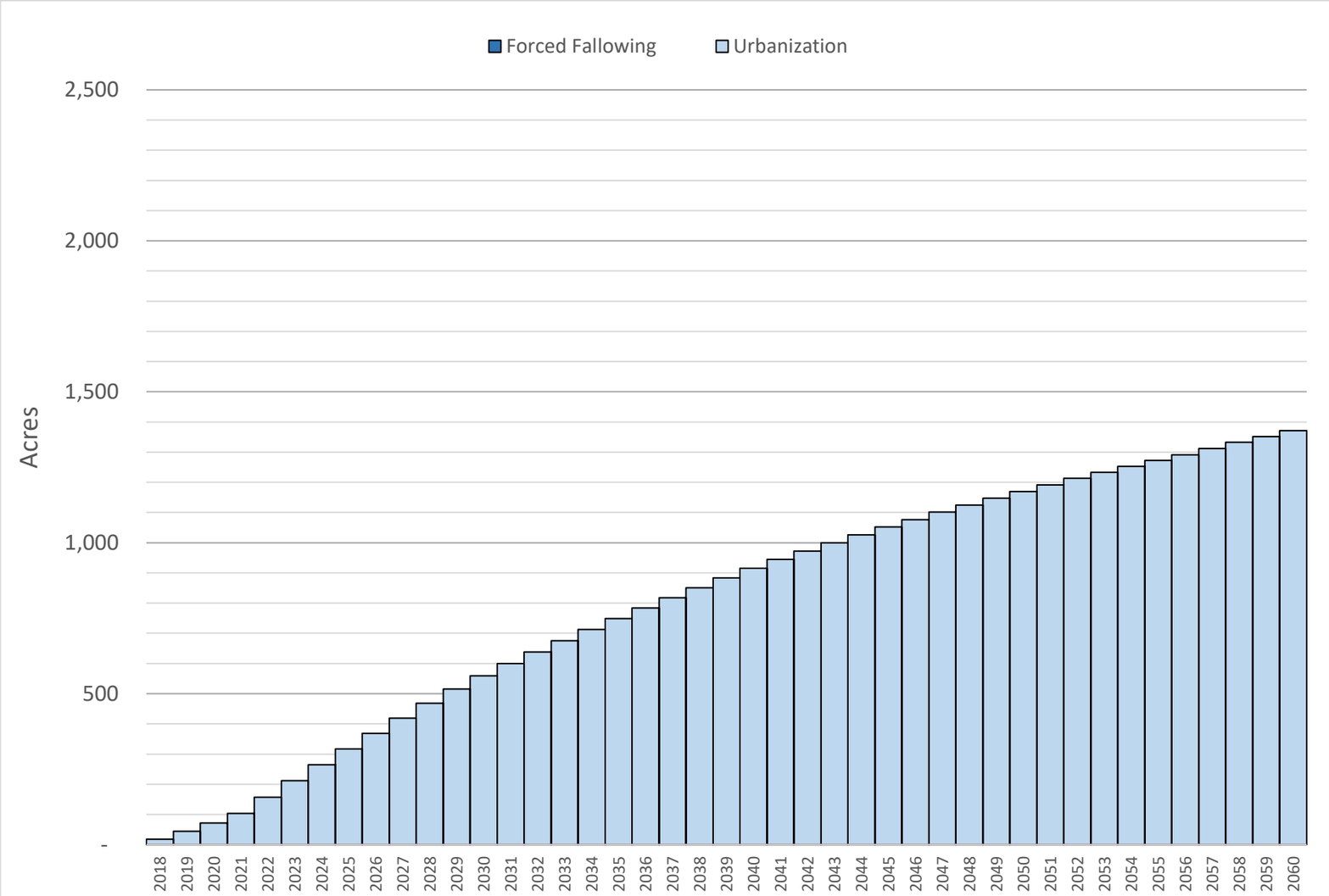
2047	1,867	0
2048	1,942	0
2049	2,016	0
2050	2,065	0
2051	2,100	0
2052	2,135	0
2053	2,170	0
2054	2,204	0
2055	2,237	0
2056	2,270	0
2057	2,301	0
2058	2,306	0
2059	2,309	0
2060	2,312	0

Central Arizona Project Service Area Model

Reduction in Agricultural Acres

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.



SCIDD

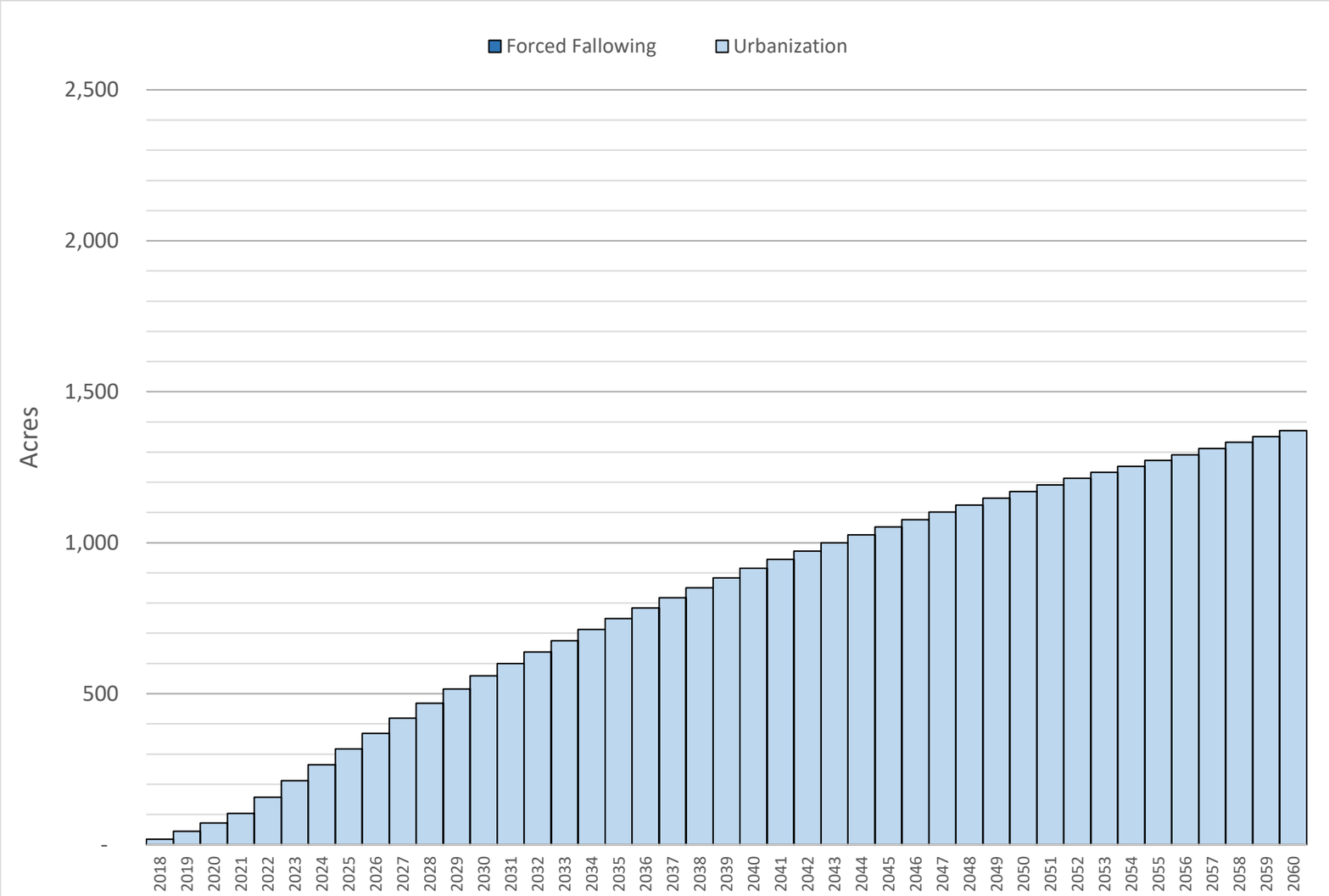
	Reduction in Ag Acres	
Date	Urbanization	Forced Fallowing
2018	17	0
2019	44	0
2020	71	0
2021	104	0
2022	157	0
2023	212	0
2024	265	0
2025	317	0
2026	368	0
2027	419	0
2028	468	0
2029	516	0
2030	560	0
2031	599	0
2032	638	0
2033	676	0
2034	712	0
2035	748	0
2036	783	0
2037	818	0
2038	851	0
2039	884	0
2040	915	0
2041	945	0
2042	973	0
2043	1,000	0
2044	1,026	0
2045	1,052	0
2046	1,077	0
2047	1,101	0
2048	1,125	0
2049	1,148	0
2050	1,170	0
2051	1,192	0
2052	1,213	0
2053	1,233	0
2054	1,253	0
2055	1,273	0
2056	1,292	0
2057	1,312	0
2058	1,333	0
2059	1,352	0
2060	1,371	0

Central Arizona Project Service Area Model

Reduction in Agricultural Acres

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.



SCIDD

	Reduction in Ag Acres	
Date	Urbanization	Forced Fallowing
2018	17	0
2019	44	0
2020	71	0
2021	104	0
2022	157	0
2023	212	0
2024	265	0
2025	317	0
2026	368	0
2027	419	0
2028	468	0
2029	516	0
2030	560	0
2031	599	0
2032	638	0
2033	676	0
2034	712	0
2035	748	0
2036	783	0
2037	818	0
2038	851	0
2039	884	0
2040	915	0
2041	945	0
2042	973	0
2043	1,000	0
2044	1,026	0
2045	1,052	0
2046	1,077	0
2047	1,101	0
2048	1,125	0
2049	1,148	0
2050	1,170	0
2051	1,192	0
2052	1,213	0
2053	1,233	0
2054	1,253	0
2055	1,273	0
2056	1,292	0
2057	1,312	0
2058	1,333	0
2059	1,352	0
2060	1,371	0