

Table A.1. Avoided Premature Mortality by State and Airport from SAF Use Using Pope III et al., 2019 (rounded to two significant figures)

State Name	Avoided Premature Deaths			Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
	2035	2050	Total (2025 - 2050)	Total Undiscounted ¹ (2025 - 2050)	Total Present Value ² (2025 - 2050)
Alabama	0.33	0.66	9.3	\$110	\$88
Birmingham-Shuttlesworth Intl	0.015	0.025	0.38	\$5.3	\$3.7
Huntsville Intl-Carl T Jones Fld	0.0018	0.0042	0.055	\$0.77	\$0.52
Arizona	1.6	4.3	52	\$620	\$490
Phoenix Sky Harbor Intl	0.018	0.051	0.61	\$8.6	\$5.8
Falcon Fld	0.0022	0.0059	0.072	\$1.0	\$0.68
Tucson Intl	0.0017	0.0047	0.056	\$0.78	\$0.53
Phoenix-Mesa Gateway	0.0007	0.0018	0.022	\$0.31	\$0.21
Scottsdale	0.00064	0.0016	0.021	\$0.29	\$0.19
Prescott Rgnl - Ernest A Love Fld	0.0003	0.001	0.011	\$0.15	\$0.1
Yuma Mcas/Yuma Intl	0.00025	0.00069	0.0084	\$0.12	\$0.079
Flagstaff Pulliam	0.0000099	0.000033	0.00037	\$0.0052	\$0.0035
Grand Canyon Ntl Park	0.0000005	0.000001	0.000014	\$0.00019	\$0.00013
Arkansas	0.19	0.38	5.3	\$63	\$51
Bill And Hillary Clinton Ntl/Adams Fld	0.0057	0.011	0.16	\$2.2	\$1.5
Northwest Arkansas Ntl	0.00045	0.0013	0.015	\$0.22	\$0.14
California	46	120	1,500	\$17,000	\$14,000
San Francisco Intl	2.8	6.7	86	\$1,200	\$810
Los Angeles Intl	2.6	6.4	81	\$1,100	\$770
John Wayne/Orange County	1.4	4.1	48	\$670	\$450
Norman Y Mineta San Jose Intl	1.1	2.9	36	\$510	\$340
Metro Oakland Intl	1.2	2.7	36	\$500	\$340
San Diego Intl	0.89	2.6	30	\$430	\$280
Bob Hope	0.35	0.85	11	\$150	\$100
Sacramento Intl	0.24	0.61	7.6	\$110	\$72

Avoided Premature Deaths				Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	Total Undiscounted¹ (2025 - 2050)	Total Present Value² (2025 - 2050)
Long Beach (Daugherty Fld)	0.14	0.36	4.5	\$63	\$42
Van Nuys	0.077	0.18	2.3	\$33	\$22
San Carlos	0.069	0.17	2.2	\$30	\$21
Sacramento Mather	0.068	0.15	2.0	\$28	\$19
Fresno Yosemite Intl	0.049	0.12	1.6	\$22	\$15
Palm Springs Intl	0.028	0.07	0.89	\$12	\$8.4
Ontario Intl	0.018	0.05	0.59	\$8.3	\$5.5
Santa Barbara Muni	0.013	0.03	0.4	\$5.5	\$3.7
Redding Muni	0.0095	0.024	0.3	\$4.2	\$2.8
Monterey Rgnl	0.007	0.014	0.2	\$2.8	\$1.9
San Luis County Rgnl	0.0057	0.016	0.19	\$2.6	\$1.8
Meadows Fld	0.0033	0.0072	0.097	\$1.4	\$0.93
Visalia Muni	0.0014	0.0033	0.043	\$0.61	\$0.41
Colorado	0.81	1.8	24	\$290	\$230
Centennial	0.013	0.041	0.47	\$6.6	\$4.4
Buckley Space Force Base	0.011	0.025	0.33	\$4.7	\$3.2
Denver Intl	0.0068	0.015	0.2	\$2.8	\$1.9
City Of Colorado Springs Muni	0.006	0.015	0.19	\$2.6	\$1.8
Grand Junction Rgnl	0.00085	0.0018	0.025	\$0.35	\$0.23
Aspen-Pitkin County/Sardy Fld	0.000055	0.00011	0.0015	\$0.021	\$0.015
Eagle County Rgnl	0.000019	0.000036	0.00053	\$0.0077	\$0.0052
Connecticut	0.97	2.1	28	\$340	\$270
Bradley Intl	0.012	0.025	0.34	\$4.8	\$3.3
Delaware	0.15	0.34	4.5	\$53	\$42
District of Columbia	0.28	0.63	8.3	\$99	\$79
Florida	5.7	16	190	\$2,300	\$1,800
Orlando Intl	0.26	1.0	10	\$150	\$97

Avoided Premature Deaths				Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	Total Undiscounted ¹ (2025 - 2050)	Total Present Value ² (2025 - 2050)
Fort Lauderdale/Hollywood Intl	0.16	0.47	5.4	\$76	\$51
Tampa Intl	0.098	0.24	3.1	\$43	\$29
Orlando Sanford Intl	0.083	0.26	2.9	\$41	\$27
Daytona Beach Intl	0.068	0.14	1.9	\$27	\$18
Palm Beach Intl	0.057	0.16	1.9	\$27	\$18
Vero Beach Rgnl	0.045	0.14	1.6	\$22	\$15
Miami Intl	0.042	0.056	1.2	\$16	\$12
Sarasota/Bradenton Intl	0.034	0.092	1.1	\$16	\$11
Southwest Florida Intl	0.033	0.089	1.1	\$15	\$10
St Pete-Clearwater Intl	0.026	0.043	0.69	\$9.6	\$6.6
Fort Lauderdale Exec	0.017	0.048	0.57	\$7.9	\$5.3
Jacksonville Intl	0.017	0.037	0.5	\$6.9	\$4.7
Pensacola Intl	0.011	0.025	0.33	\$4.6	\$3.1
Naples Muni	0.0078	0.03	0.31	\$4.3	\$2.9
Tallahassee Intl	0.0033	0.0082	0.1	\$1.4	\$0.97
Eglin Afb/Destin-Ft Walton Beach	0.002	0.0048	0.062	\$0.86	\$0.58
Key West Intl	0.00084	0.0019	0.025	\$0.35	\$0.24
Northwest Florida Beaches Intl	0.00045	0.001	0.014	\$0.19	\$0.13
Georgia	1.4	3.3	43	\$510	\$410
Hartsfield - Jackson Atlanta Intl	0.2	0.41	5.8	\$81	\$55
Savannah/Hilton Head Intl	0.0076	0.015	0.21	\$2.9	\$2.0
Idaho	0.076	0.19	2.4	\$28	\$22
Boise Air Trml/Gowen Fld	0.0064	0.018	0.21	\$3.0	\$2.0
Coeur D'Alene/Pappy Boyington Fld	0.0011	0.0032	0.038	\$0.53	\$0.36
Illinois	3.6	7.6	100	\$1,200	\$990
Chicago O'Hare Intl	0.46	0.95	13	\$180	\$130
Chicago Midway Intl	0.29	0.62	8.4	\$120	\$80

State Name	Avoided Premature Deaths			Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
	2035	2050	Total (2025 - 2050)	Total Undiscounted ¹ (2025 - 2050)	Total Present Value ² (2025 - 2050)
Chicago/Rockford Intl	0.011	0.021	0.3	\$4.2	\$2.8
Quad Cities Intl	0.009	0.019	0.26	\$3.6	\$2.5
Chicago Exec	0.007	0.014	0.2	\$2.7	\$1.9
Southern Illinois	0.0025	0.0046	0.069	\$0.96	\$0.66
Indiana	1.4	2.8	40	\$470	\$380
Indianapolis Intl	0.22	0.4	5.9	\$83	\$57
South Bend Intl	0.015	0.029	0.42	\$5.8	\$4.0
Fort Wayne Intl	0.013	0.026	0.38	\$5.3	\$3.6
Iowa	0.17	0.32	4.7	\$56	\$45
Des Moines Intl	0.0041	0.0078	0.11	\$1.6	\$1.1
The Eastern Iowa	0.003	0.0059	0.085	\$1.2	\$0.8
Kansas	0.13	0.25	3.7	\$44	\$35
Wichita Dwight D Eisenhower Ntl	0.0061	0.012	0.17	\$2.4	\$1.6
Salina Rgnl	0.0011	0.002	0.03	\$0.42	\$0.29
Kentucky	0.88	1.7	25	\$290	\$230
Louisville Muhammad Ali Intl	0.33	0.61	9.1	\$130	\$86
Cincinnati/Northern Kentucky Intl	0.11	0.21	3.0	\$42	\$28
Blue Grass	0.023	0.045	0.65	\$9.1	\$6.2
Louisiana	1.2	2.4	35	\$410	\$330
Louis Armstrong New Orleans Intl	0.59	1.1	16	\$230	\$150
Lafayette Rgnl/Paul Fournet Fld	0.046	0.1	1.4	\$19	\$13
Baton Rouge Metro, Ryan Fld	0.036	0.081	1.1	\$15	\$10
Abbeville Chris Crusta Meml	0.019	0.037	0.53	\$7.4	\$5.1
Houma-Terrebonne	0.018	0.036	0.52	\$7.3	\$4.9
Shreveport Rgnl	0.017	0.032	0.47	\$6.5	\$4.5
Maine	0.2	0.44	6.0	\$70	\$56
Auburn/Lewiston Muni	0.0021	0.0038	0.057	\$0.8	\$0.55

Avoided Premature Deaths			Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	Total Present Value ² (2025 - 2050)
Bangor Intl	0.0008	0.0017	0.023	\$0.32
Knox County Rgnl	0.0007	0.0015	0.021	\$0.29
Maryland	1.1	2.7	34	\$400
Baltimore/Washington Intl Thurgood Marshall	0.047	0.11	1.4	\$20
Massachusetts	1.2	2.6	36	\$420
General Edward Lawrence Logan Intl	0.34	0.74	9.9	\$140
Laurence G Hanscom Fld	0.0084	0.017	0.24	\$3.3
Cape Cod Gateway	0.0066	0.017	0.21	\$3.0
Martha'S Vineyard	0.00076	0.0023	0.027	\$0.37
Nantucket Meml	0.00079	0.0018	0.024	\$0.34
Michigan	1.3	2.5	36	\$430
Detroit Metro Wayne County	0.11	0.17	2.9	\$40
Gerald R Ford Intl	0.0072	0.015	0.21	\$2.9
Battle Creek Exec At Kellogg Fld	0.0018	0.0034	0.05	\$0.69
Capital Region Intl	0.0011	0.0025	0.034	\$0.48
Mackinac County	0.000028	0.000059	0.00082	\$0.011
Minnesota	0.67	1.4	19	\$230
Minneapolis-St Paul Intl/Wold-Chamberlain	0.23	0.47	6.6	\$93
Mississippi	0.35	0.74	10	\$120
Jackson-Medgar Wiley Evers Intl	0.034	0.073	0.99	\$14
Missouri	0.38	0.72	10	\$120
St Louis Lambert Intl	0.072	0.15	2.1	\$29
Kansas City Intl	0.0065	0.015	0.2	\$2.8
Springfield-Branson Ntl	0.0022	0.0045	0.063	\$0.88
Charles B Wheeler Downtown	0.0015	0.0031	0.044	\$0.62
Montana	0.048	0.11	1.5	\$17

Avoided Premature Deaths			Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	
Billings Logan Intl	0.00091	0.0023	0.029	
Bozeman Yellowstone Intl	0.00063	0.002	0.023	
Missoula Montana	0.00055	0.0012	0.016	
Great Falls Intl	0.00031	0.00063	0.0088	
Glacier Park Intl	0.00018	0.00047	0.0058	
Nebraska	0.084	0.16	2.3	
Eppley Airfield	0.0091	0.015	0.24	
Nevada	0.98	3.2	36	
Harry Reid Intl	0.022	0.076	0.82	
Reno/Tahoe Intl	0.004	0.01	0.13	
North Las Vegas	0.0019	0.0068	0.073	
Boulder City Muni	0.00085	0.0031	0.032	
Henderson Exec	0.00046	0.0015	0.017	
New Hampshire	0.17	0.39	5.2	
Manchester Boston Rgnl	0.0019	0.0042	0.057	
New Jersey	6.0	12	170	
Newark Liberty Intl	1.8	3.7	52	
Teterboro	0.4	0.86	12	
New Mexico	0.12	0.31	3.8	
Albuquerque Intl Sunport	0.012	0.028	0.36	
New York	8.3	19	250	
John F Kennedy Intl	0.81	2.0	25	
Laguardia	0.76	1.8	23	
Buffalo Niagara Intl	0.074	0.15	2.1	
Frederick Douglass/Greater Rochester Intl	0.033	0.071	0.98	
Albany Intl	0.033	0.065	0.93	
Syracuse Hancock Intl	0.024	0.048	0.69	

Avoided Premature Deaths				Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	Total Undiscounted ¹ (2025 - 2050)	Total Present Value ² (2025 - 2050)
Long Island Mac Arthur	0.0095	0.02	0.28	\$3.9	\$2.6
North Carolina	0.96	2.3	30	\$360	\$280
Charlotte/Douglas Intl	0.14	0.34	4.3	\$61	\$41
Raleigh-Durham Intl	0.042	0.11	1.4	\$20	\$13
Piedmont Triad Intl	0.0064	0.014	0.19	\$2.6	\$1.8
Wilmington Intl	0.0032	0.0089	0.11	\$1.5	\$1.
Fayetteville Rgnl/Grannis Fld	0.0025	0.0057	0.075	\$1.1	\$0.71
Asheville Rgnl	0.0021	0.005	0.064	\$0.9	\$0.6
North Dakota	0.018	0.038	0.52	\$6.2	\$4.9
Grand Forks Intl	0.0013	0.0024	0.036	\$0.5	\$0.34
Hector Intl	0.00093	0.0022	0.028	\$0.4	\$0.27
Ohio	2.0	4.0	57	\$670	\$540
Cleveland-Hopkins Intl	0.15	0.29	4.2	\$59	\$40
John Glenn Columbus Intl	0.087	0.17	2.4	\$34	\$23
James M Cox Dayton Intl	0.022	0.045	0.63	\$8.7	\$5.9
Ohio State University	0.021	0.043	0.61	\$8.5	\$5.8
Butler County Rgnl/Hogan Fld	0.017	0.03	0.45	\$6.3	\$4.3
Akron-Canton Rgnl	0.014	0.029	0.41	\$5.7	\$3.9
Toledo Exec	0.0099	0.02	0.28	\$3.9	\$2.7
Rickenbacker Intl	0.0049	0.0084	0.13	\$1.8	\$1.2
Erie-Ottawa Intl	0.0024	0.0053	0.071	\$0.99	\$0.67
Oklahoma	0.46	0.87	13	\$150	\$120
Will Rogers World	0.056	0.11	1.6	\$22	\$15
Tulsa Intl	0.051	0.094	1.4	\$19	\$13
Oregon	0.29	0.7	9.0	\$110	\$85
Portland Intl	0.1	0.25	3.2	\$45	\$30
Rogue Valley Intl - Medford	0.0043	0.011	0.14	\$1.9	\$1.3

Avoided Premature Deaths				Monetized Results, Including Non-Fatal Health Effects (millions \$2023)		
State Name	2035	2050	Total (2025 - 2050)	Total Undiscounted¹ (2025 - 2050)	Total Present Value² (2025 - 2050)	
Pennsylvania	Mahlon Sweet Fld	0.0021	0.0051	0.065	\$0.9	\$0.61
	Roberts Fld	0.0012	0.0046	0.047	\$0.66	\$0.44
		3.3	6.9	96	\$1,100	\$900
Rhode Island	Philadelphia Intl	0.23	0.46	6.4	\$90	\$61
	Allegheny County	0.037	0.071	1.0	\$14	\$9.8
	Pittsburgh Intl	0.037	0.07	1.0	\$14	\$9.7
	Harrisburg Intl	0.02	0.042	0.59	\$8.2	\$5.6
	Lehigh Valley Intl	0.013	0.031	0.41	\$5.7	\$3.9
		0.18	0.39	5.4	\$63	\$51
South Carolina	Rhode Island Tf Green Intl	0.011	0.025	0.33	\$4.6	\$3.1
		0.38	1.0	12	\$150	\$120
	South Dakota	Myrtle Beach Intl	0.013	0.041	0.46	\$6.5
Charleston Afb/Intl		0.007	0.022	0.25	\$3.5	\$2.4
Greenville Spartanburg Intl		0.0052	0.013	0.16	\$2.3	\$1.5
Columbia Metro		0.0039	0.011	0.13	\$1.8	\$1.2
		0.027	0.055	0.78	\$9.2	\$7.4
Tennessee	Joe Foss Fld	0.0027	0.0057	0.078	\$1.1	\$0.74
	Rapid City Rgnl	0.00059	0.0014	0.018	\$0.25	\$0.17
		0.94	1.9	27	\$320	\$260
Texas	Nashville Intl	0.12	0.24	3.4	\$47	\$32
	Memphis Intl	0.12	0.22	3.3	\$46	\$31
	Mc Ghee Tyson	0.022	0.053	0.68	\$9.5	\$6.4
	Lovell Fld	0.014	0.029	0.41	\$5.7	\$3.9
	John C Tune	0.0087	0.014	0.23	\$3.2	\$2.2
		8.1	20	250	\$3,000	\$2,400
	Dallas-Fort Worth Intl	0.46	1.1	14	\$200	\$130
	George Bush Intcntl/Houston	0.39	0.97	12	\$170	\$120

Avoided Premature Deaths				Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	Total Undiscounted ¹ (2025 - 2050)	Total Present Value ² (2025 - 2050)
San Antonio Intl	0.3	0.75	9.4	\$130	\$89
William P Hobby	0.13	0.33	4.1	\$58	\$39
Dallas Love Fld	0.11	0.25	3.4	\$47	\$32
El Paso Intl	0.087	0.27	3.0	\$42	\$28
Austin-Bergstrom Intl	0.047	0.11	1.4	\$20	\$14
Laredo Intl	0.0067	0.019	0.22	\$3.2	\$2.1
Ellington	0.0067	0.016	0.2	\$2.9	\$1.9
Lubbock Preston Smith Intl	0.0067	0.015	0.2	\$2.8	\$1.9
Midland Intl Air And Space Port	0.0061	0.015	0.19	\$2.7	\$1.8
Fort Worth Alliance	0.0034	0.0074	0.1	\$1.4	\$0.96
Utah	0.43	1.1	13	\$160	\$130
Salt Lake City Intl	0.087	0.22	2.7	\$39	\$26
Vermont	0.084	0.19	2.6	\$30	\$24
Burlington Intl	0.002	0.0053	0.065	\$0.91	\$0.61
Virginia	1.3	3.3	41	\$480	\$380
Ronald Reagan Washington Ntl	0.73	1.8	23	\$320	\$210
Washington Dulles Intl	0.073	0.25	2.8	\$39	\$26
Norfolk Intl	0.057	0.12	1.7	\$23	\$16
Richmond Intl	0.023	0.057	0.73	\$10	\$6.9
Charlottesville-Albemarle	0.0033	0.0072	0.099	\$1.4	\$0.94
Washington	1.3	3.1	40	\$480	\$380
Seattle-Tacoma Intl	0.1	0.26	3.2	\$45	\$31
Boeing Fld/King County Intl	0.017	0.045	0.55	\$7.7	\$5.1
Spokane Intl	0.0078	0.016	0.22	\$3.1	\$2.1
Bellingham Intl	0.0048	0.012	0.15	\$2.1	\$1.4
Tri-Cities	0.0027	0.0079	0.092	\$1.3	\$0.86
Friday Harbor	0.0021	0.0062	0.072	\$1.0	\$0.67

Avoided Premature Deaths			Monetized Results, Including Non-Fatal Health Effects (millions \$2023)	
State Name	2035	2050	Total (2025 - 2050)	
Grant County Intl	0.00048	0.0012	0.015	
West Virginia	0.15	0.3	4.2	
Morgantown Muni-Walter L Bill Hart Fld	0.00082	0.0018	0.024	
Wisconsin	0.38	0.79	11	
General Mitchell Intl	0.017	0.031	0.47	
Dane County Rgnl/Truax Fld	0.0037	0.008	0.11	
Green Bay/Austin Straubel Intl	0.0021	0.0043	0.061	
Wyoming	0.021	0.047	0.62	
Jackson Hole	0.000031	0.00008	0.00098	

Notes:

1. Valuation of premature mortality within BenMAP-CE applies a 20-year cessation lag with a discount rate of two percent.
2. Present Value is discounted to year 2023 at a two percent discount rate, consistent with the recommendations of the White House Office of Management and Budget's Circular A-4 (2023)