

September 17, 2025

Response to FAA request for public comment on U.S. Air Force Proposal to lower floors of Military Operations Areas (MOA) and military support of training that requires supersonic flight at lower altitudes.

Arizona Aviation Safety Advisory Group

The Arizona Aviation Safety Advisory Group is a 501 (c) 3 collaborating with all users of Arizona's airspace. We wish to support the Air Force's mission but feel the lowering of the MOA floors to 500 feet AGL, and in the case of the Tombstone MOA proposing 100' AGL, as is currently allowed in Jackal Low and Fuzzy, and proposing "adjusting the attributes to allow for supersonic speed at lower altitude" ¹ are serious impediments to safe use of Arizona's airspace by General Aviation Pilots.

Our concerns are:

1. Current General Aviation flight instruction practice areas extensively use the airspace below the existing MOA floors as shown in Figure 1. The Gladden and Bagdad MOAs overlap the practice areas used by the Prescott area flight schools that include Embry-Riddle Aeronautical University, Leighnor, and Yavapai Community College. The proposed expansion of these MOAs will eliminate approximately 25% of the available airspace currently in use, and force flight activity into already saturated areas. This increases the potential for a mid-air collision which has happened multiple times among training aircraft in our state.² The Prescott area also sits close to noise-sensitive areas and the flight schools must be mindful of noise complaints over many of their eastern practice areas. Moving one quarter of the flight operations to other areas will only exacerbate the noise problem. Prescott Airport ranks fourth in the state behind Mesa, Falcon, and Phoenix Deer Valley, and is 24th in the nation for all airports for total traffic counts. See Table 2. Student and general aviation VFR southwest cross-country flights to locations such as Wickenburg, Parker, Blythe, Yuma, and southern California will not be possible under the proposed MOA expansion.

¹¹ Draft EIS Cover Sheet page 7 of the 212-page document.

² NTSB Investigation WPR13FA254, WPR13LA004, WPR09FA437, WPR22FA001,

2. The Outlaw MOA expansion will have a similar impact to flight operations using the airspace in the Southeast Practice Area as shown in Figure 1. This area is primarily used by pilots and dozens of flight schools based out of Gateway, Chandler, and Falcon Fields, but also sees use from flight schools and pilots based at any of the seven Phoenix area general aviation airports. These schools include University of North Dakota, Arizona State University, CAE Oxford Academy, ATP Flight Schools, California Aeronautical University, Aeroguard Training Academy, Sierra Charlie Flight Academy, United Aviate Academy, Lufthansa's Flight Training Academy, as well as many smaller training schools. Together, Falcon, Gateway, and Chandler account for 818,732 operations as shown in Table 1. The Phoenix area has four airports in the top 100 busiest in the nation, with Phoenix Sky Harbor 9th, Mesa Falcon 20th, Phoenix Deer Valley 21st, and Scottsdale 72nd. If we include Prescott, as previously mentioned, the state has five of the busiest airports in the top 100. Aviation Performance Systems, based at IWA, provides upset recovery training for various airlines and government operators globally. They operate a fleet of Extra 300s and jet trainers, operating southeast of IWA and are equally concerned with the mid-air collision potential with today's traffic intensity and the MOA expansion will impact them negatively. In addition, there are military contractor training providers using both Falcon and Gateway airports providing high speed flight maneuvering using the airspace around the Outlaw MOA. Also affected will be Superior Airport glider operations, training high school students for Glider ratings which is located inside the western part of the Outlaw MOA. Figure 2 shows the traffic tracks for the Phoenix area during a 24-hour period. Figure 3 depicts the traffic out of IWA for a 24hour period and as pointed out, over 800 aircraft a day transit below 5000'AGL in or near the western area of the Outlaw MOA. Figure 4 shows the area between Phoenix and Tucson and the gray circles show the Notice to Airmen for active parachute drop operations. Many of these operations are conducted by other government agencies and contractors operating around the clock. ASAG, the jump operators, FAA, and flight training providers are genuinely concerned about the potential for a mid-air collision between aircraft and jumpers and we have an extensive education program in place to try and mitigate the risk. The expansion of the Outlaw MOA will force more aircraft into an already dangerous airspace.

3. ASAG is concerned about access to any airport underlying the MOA. Many of these airports are used for student cross-country training as well as by other general aviation pilots. Under the proposed lowering of the floor to 500 feet AGL, VFR access to these airports is almost impossible and is impossible under IFR if the MOA is active. Numerous backcountry airstrips are used by slow-moving aircraft that generally operate between 1000 to 2000 AGL. Access will be impossible for these pilots. The mountains east of IWA are used annually in the spring for wild-

Firefox

land fire training with extensive flight training taking place for air-attack lead and bomber pilots.

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- 4. Due to the floor of the MOAs being lowered to 500 AGL and lower, ASAG is concerned about the extent of supersonic flight within the MOAs. With the large amount of training activity by both military and civilian pilots in and around the MOAs, the task saturation, and demands of maneuvering flight, will leave truly little time for pilots to devote to traffic awareness or avoidance. Will pilots be counting on Air Traffic Control to separate VFR traffic in the MOA? This will not be possible when aircraft are maneuvering below ATC's RADAR coverage at 500 feet AGL. Using Luke AFB's own Mid-Air Collision Avoidance charts, see Figures 5,6, and 7, and speeds for the F-16, the time to see and react to a target is 12.5 seconds. This presumes clear conditions and clearing for traffic. These numbers cannot be counted on while maneuvering, at higher speeds, at lower altitudes, with terrain and ground clutter obscuring the view of other airplanes. How do supersonic speeds affect the times shown in Figure 7? Will a civilian or military pilot have any hope of picking up a converging aircraft? Very unlikely.
- 5. According to the FAA's FY2024, see Table 5, Albuquerque Center has experienced a 40% increase in Loss of Standard Separation counts ranking among the highest centers in the country along with Salt Lake City, Chicago, and Boston.³ The majority of the MOA expansion is within Albuquerque Center's area of responsibility and there has been little increase in manning levels as shown in Table 6.⁴

ASAG wishes to support the U.S. Air Force's mission; however, the proposed expansion of the floors to 500 AGL, and in the case of Tombstone to 100 AGL, and aircraft maneuvering at supersonic speeds, creates hazards for which we do not see a safe way of mitigating the risks and we cannot endorse this plan as it is currently proposed.

Cary B. Grant

Eny B. Shart

President, Arizona Aviation Safety Advisory Group

³ Federal Aviation Administration, Air Traffic By The Numbers, June 2025, page 33

 $^{^{4}}$ Federal Aviation Administration, Air Traffic By The Numbers, June 2025, page 4

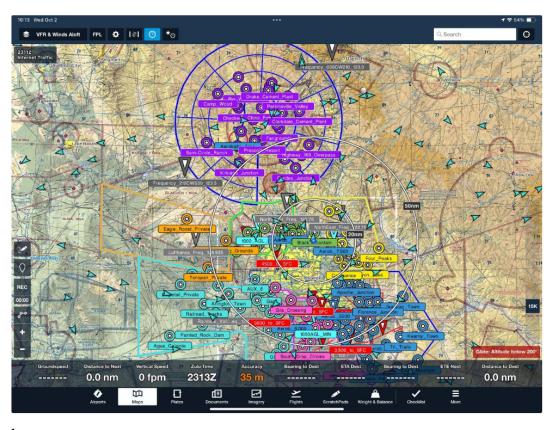


Figure 1.

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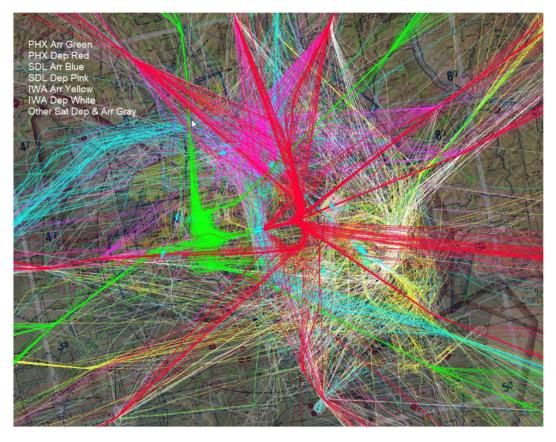


Figure 2

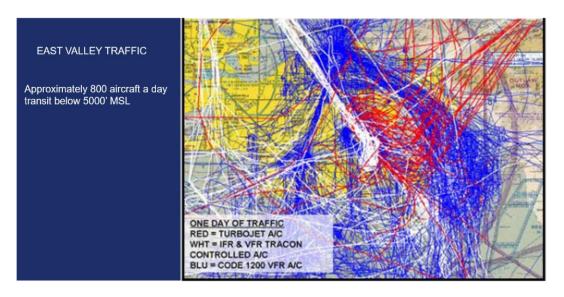


Figure 3.

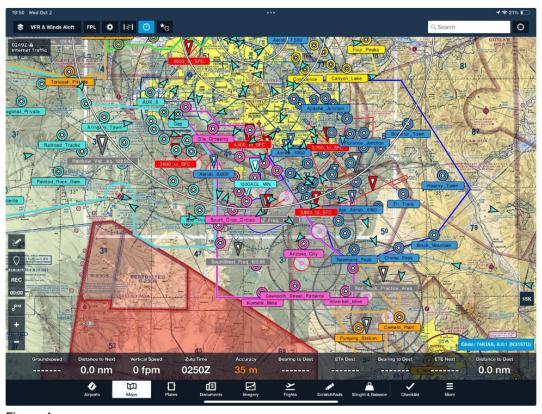


Figure 4.

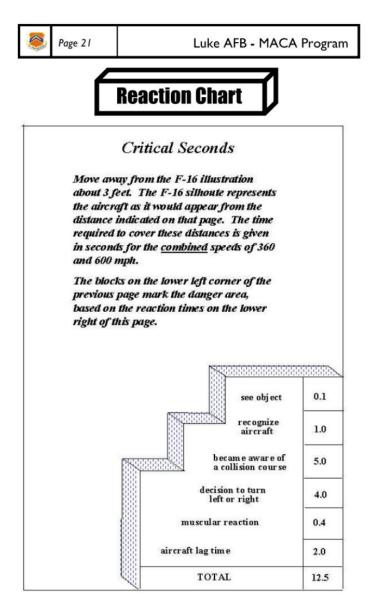


Figure 5.

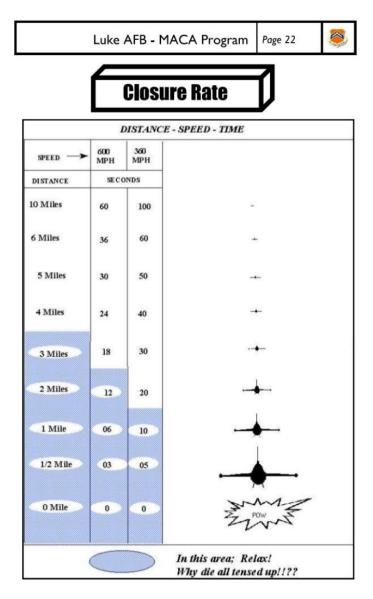


Figure 6.

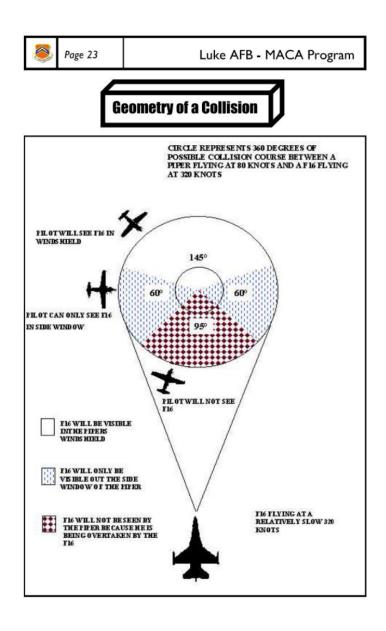


Figure 7

							Total
		IFR	IFR	VFR	VFR	Local	Tower
ID	YEAR	Itinerants	Overflights	Itinerants	Overflights	VFR	Ops
DVT	2023	13241	1387	101402	6027	229743	351800
FFZ	2023	6600	542	134926	5050	207341	354459
PHX	2023	443440	5954	11225	29447	0	490066
PRC	2023	18174	37	82542	1149	234864	336766
SDL	2023	61469	132	69137	4672	45212	180622
TUS	2023	69880	125	48718	4057	27535	150315
CHD	2023	4,211	47	70,636	2,792	140,874	218,560
FLG	2023	6,972	4	18,087	1,694	5,701	32,458
GEU	2023	2,420	669	33,565	2,289	72,115	111,058
GYR	2023	5,650	374	75,218	3,034	119,641	203,917
IFP	2023	1,398	12	7,000	1,197	2,378	11,985
IWA	2023	23,976	252	68,855	4,153	148,477	245,713
RYN	2023	2,409	10	31,999	325	66,206	100,949

Table 1.

OPSNET: Tower Operations: Ranking Report

From 05/01/2023 To 05/31/2024 | FAA Only Ranked by : Tower Operations

	Δir	IFR Air	t Itinerant General			Air		R Overfligh	nt		Air	VF Air	R Itinerant			Δir	VF Air	R Overflig	ht			Local			
# Facility 1 ATL	Carrier 837.597			Military 237	Total 852,752	Carrier 721			Military	Total 1.589		Taxi 56		Military 31	Total	Carrier	Taxi 2.392		Military 238	Total 4.756	Civil	Military	Total	Airport Operations 854,442	Tower Operations 860.787
2 ORD 3 DEW	654,664 747.561	134,985	3,650	110	793,409 769,278	175	174	71 810	3 25	423 4.635	3 23	64 207	824 927	17	908	0	300	335 2,265	19	654 3,330	0	0	0	794,317 770,512	795,394 778,477
4 DEN 5 LAS	648,948 448,679	83,915 56,659	3,190 38,617	163 9,896	736,216 553,851	1,254	381	117	10 52	1,762	21	116 108,875	366 2.552	16 697	519 112,127	0	257 10,903	546 6.677	136	939	0	0	0	736,735 665,978	739,436 687,628
6 LAX 7 CLT	593,499 483,143	21,751	13,115 21.836	355 813	628,720 599.019	436 468	71	59 201	3	569 834	18	21 595	680 4.839	141	860 5.500	0	169	15,552 5,190	1,248	16,969 7,268	0	0	0	629,580 604.519	647,118 612.621
8 EWR	438,104	10,022	4,784	43	452,953	275	307	407	24 1.683	1,013	28 35	968	10,848	111	11,955	1	12,288	96,086	6,496	114,871	0	0	0	464,908	580,792
10 JFK 11 MIA	493,438 475,283	5,637 26,521	3,358 12,461	244 431	502,677 514,696	427 364	61	77	4	569 400	5 1,193	1,297	12,497	169 67	13,968 3,973	0	767 53	19,515 7,432	543 220	20,825	0	0	0	516,645 518,669	538,039 526,777
12 IAH 13 I GA	402,036 376,742	55,597	7,874	54	465,561 384 702	592	164	82 106	4	842	2	335 391	638	76 77	1,051	0	796 11 748	3,959	826 5 982	5,581 76,993	0	0	0	466,612 386,965	473,035 465 139
14 SEA 15 MCO	455,491 428.760	4,190 16.595	1,014 12,769	38 186	460,733 458.310	418 194	622	369	21	1,430	9 21	22 971	353 1.888	12 65	396 2.945	0	64 286	595 366	14	673 661	0	0	0	461,129 461,255	463,232 462,122
16 BOS 17 LGB	362,013 38,387	51,100 8,752	8,428 24,820	163 420	421,704 72,379	251 30	1,322 76	1,268	26 17	2,867	39	9,977 6,043	2,251 94,826	159 297	12,426	0	7,357 203	5,730 14,013	276 473	13,363 14,689	241,626	0	241,639	434,130 415,185	450,360 430,277
18 VNY 19 SFO	93	36,841 25,929	41,131 6,841	106	78,171 413,534		10,925 75	5,945 608	108	48,364	ó	745 972	95,972 672	391 2.527	97,108	0	312 487	19,640	298 115	20,250	180,596	7	180,603	355,882 417,706	424,496 423,656
20 FFZ 21 DVT	15	2,746	3,839 8,045	125	6,725	335	85 736	93 835	19	532 1,575	0	79,108	70,846	1,371	151,325 121,595	0	1,267	3,796 4,362	79	5,142	254,939 272,118	8 274	254,947	412,997 408,710	418,671 416,656
22 APA 23 MYF	34 0	32,888 3,086	38,908 27,619	2,278 529	74,108 31,234	4	43 89	97 259	34 99	178 458	56	24,527	85,116 89,604	1,447	111,146 94,837	2	422 352	999	90	1,513 9,713	209,428 259,885	332 232	209,760	395,014 386,188	396,705 396,359
24 PRC 25 MSP	7 325.997	14,030	7,173 8.508	270 1.928	21,480 358,033	112	30	10 3.960	4	44 5.594	0	57,759	34,190	229	92,178	0	1,087	237	33	1,357	259,171	140	259,311	372,969 358,805	374,370 372,365
26 DCA 27 SLC	315,629 257,493	3,136	2,225 24,647	387	321,377 322,035	350	21	553 131	44	968 174	7	64 3,586	48 18,630	2,084 3,244	2,203 25,469	24	12,532 4,673	17,533 10,595	16,179 601	46,268 15,870	984	0	984	323,580 348,488	370,816 364,532
28 HNL 29 DAB	182,700	44,125 44.672	7,477	13,917	248,219 66,572	0	11 46	4	19	34	1	59,695 137,186	52,009	2,020	113,725	0	17	4	6	1,379	44 124.449	5	49 124.458	361,993 356.853	362,054 358.332
30 FLL 31 SNA	264,659	30,903	27,714	581	323,857	784 877	60	98	29 59	971	791	3,408	9,096	1,236	14,531	7	447 82	16,398	759 153	17,611	94.015	0	94.077	338,388 335,255	356,970 342 264
32 PHL 33 TMB	244,458	67,591 5.403	10,785	226 123	323,060	300	234	148	8	690	0	250 797	1,734	274	2,258	0	5,544 40	3,388	347 43	9,279	172.030	203	172,233	325,318 328,608	335,287 331,736
34 TEB 35 GFK	69 2,370	102,689 35,109	72,040 4,738	149		123,691	2,454	1,304	9	127,458	2 24	4,537 90,938	12,353 8,676	295 45	17,187 99,683	18	2,377	3,481 342	393 14	6,269 448	180,203	0	180,203	192,134 322,191	325,861 322,687
36 DTW 37 IAD	305,371 212,845	6,748	4,491	81 527	316,691 312 101	892 294	673 384	601 348	8	2,174	5 12	15	606	13	639	0	62	851 2 507	23	936 5.217	0	0	0	317,330 313,366	320,440 319.664
38 ANC 39 BNA	144,335 222,511	50,725	14,214 26,818	3,880	213,154 283,164	443 420	437 622	543 1.629	4,155 58	5,578	45	28,710 413	54,903 10.939	3,296 1.961	86,954 13,316	0	851 3,558	2,734	420 402	4,005	9,725	0	9,725	309,833 296,488	319,416 313,281
40 BJC 41 SFB	13 19,986	13,590	16,514 11,846	343 564	30,460 58.547	8	139	293	9	449 117	35 3	9,417 50,626	95,324 24,432	1,093	105,869	0	501 146	2,388	58	2,947	171,846 175,621	1,441 158	173,287 175,779	309,616 309,547	313,012 310,308
42 AUS 43 DAL	213,517	26,261 56,064	37,044	2,663 616	279,485 266,678	990 176	415 1.736	492 5.682	67 26	1,964	79	1,057	10,046	3,158	14,340	1	2,813	5,084 11,685	3,332 432	11,230 22,426	366	226	592	294,417 273,484	307,611 303,530
44 FRG	163,713	11,285	12,839	74	24,301	11,749	110	191	9	12,059	35	16,990	81,397	899	99,321	17	1,029	2,739	569	4,354 10.396	135,585	78	135,663	259,285	275,698
45 BWI 46 SAN 47 CNO	234,871 213,981	15,558 16,037 732	9,647 8,668 12,046	711 317 606	260,787 239,003 13,430	426 116 29	73 47 657	335 22 1,128	94 60	841 279 1.874	13	250 143 602	1,683 1,112 56.432	223 744 1,154	2,157 2,012 58,188	1	3,040 1,234 220	6,712 17,253 11,089	644 13,148 439	31,636 11,748	0 1 182.063	0 0 849	0 1 182.912	262,944 241,016 254,530	274,181 272,931 268,152
47 CNO 48 TPA 49 VRB	197,603	24,218	22,697	366	244,884	268 0	66	194	28	1,874 556 305	173	900	6,839	392	8,304	3	1,019	7,306	1,229	9,557	34	0	34	253,222	263,335
49 VRB 50 MDW 51 PDX	1,409 188,080	16,339 32,138 17,184	16,274 20,299	155 96 2,777	34,177 240,613	173	106 63	199 86	0 24 27	305 346 1,197	3	46,168 761	39,367 8,358	69 251 314	85,606 9,373	0	803	1,929 2,449	52 334 177	2,037 3,586 42,506	132,507 0 1,993	84	132,591 0 1,993	252,374 249,986	254,716 253,918
52 RVS	168,603	12,118	7,349 10,203	37	195,913 22,361	86 25	52 17	1,032 54	9	105	1	4,049 45,622	4,910 35,152	136	9,277 80,911	0	1,594 825	40,735 2,037	82	2,944	143,398	8	143,406	207,183 246,678	250,886 249,727
53 VGT 54 HOU 55 OAK	132,826	5,915 31,417	6,588 40,471	93 142	12,599 204,856	253 88	29 356	14 487	61 83	105 1,179	9	16,136 578	69,501 14,064	1,295 487	86,933 15,138	0	2,380 11,640	1,443 6,185	339 1,603	4,163 19,428	139,729 0	583 0	140,312 0	239,844 219,994	244,112 240,601
56 MEM	121,525 199,317	24,403 13,624	11,472 15,535	175 996	157,575 229,472	328	792 62	2,075 138	5 9	2,960 537	4	2,659 309	18,730 1,323	297 159	21,692 1,795	18	1,041 975	11,772 2,455	340 174	13,155 3,622	43,538 0	97 0	43,635 0	222,902 231,267	239,017 235,426
57 FTW 58 RDU	212 147,241	11,267 20,421	33,022 25,760	1,449	45,950 195,045	1,067 233	446 22	1,120 33	1,177	3,810 292	7	789 5,823	47,301 24,274	394 3,102	48,485 33,206	1 0	3,663 83	6,183 730	138 82	9,985 895	123,032 981	1,035 198	124,067 1,179	218,502 229,430	232,297 230,617
59 MYR 60 IND 61 SEE	32,081 135,367	7,283 16,399	8,574 13,993	4,037 1,068 906	51,975 166,827 10,312	33 41	96 151 1 262	424 749 8 863	49 9	950 10 476	22	94,235 40,124 207	11,343 2,681	388 204 230	105,988 43,013 58,596	0	63,878 1,525 358	1,073 1,689 7,074	130 109 399	65,082 3,323	5,839 0 126,502	940 0 55	6,779 0 126,557	164,742 209,840	230,426 214,113
62 FXE	27	293 22,442	9,113 41,968	125	64,562	7	144	1,093	350 7	1,251	6	6,539	58,157 81,367	272	88,184	1	278	5,312	196	7,831 5,787	52,927	18	52,945	195,465 205,691	213,772 212,729
63 PDK 64 BUR	35 68,222	27,672 26,575	45,158 12,728	322 213	73,187 107,738	10,710	217 3,997	291 1,907	98 17	607 16,631	3	1,896	59,874 16,801	137 213	61,910 18,194	14	2,227 920	9,829 34,457	208 700	12,264 36,091	62,267 28,985	43 13	62,310 28,998	197,407 154,930	210,278 207,652
65 HIO 66 CMA	10 33	3,127 3,170	10,514 25,141	63 299	13,714 28,643	3	123 13	415 5,283	3,056	541 8,355	13 99	844 162	57,319 60,637	119 161	58,295 61,059	1 6	236	3,415 4,356	67 334	3,719 4,696	130,622 103,190	122 113	130,744 103,303	202,753 193,005	207,013 206,056
67 LVK 68 SDF	5 157,965	3,180 14,650	9,699 8,594	48 1,230	12,932 182,439	0 126	13 111	44 1,113	6 8	63 1,358	0	89 1,006	53,369 2,011	58 727	53,516 3,748	0	155 7,796	1,839 6,651	48 463	2,042 14,910	134,017 51	47 13	134,064 64	200,512 186,251	202,617 202,519
69 ORL 70 PBI	19 65,456	12,159 55,483	27,392 43,650	50 439	39,620 165,028	13 24	18 79	36 131	41	70 275	16	2,230 2,392	55,505 19,959	38 1,164	57,773 23,531	0	4,571 844	2,642 6,807	15 742	7,228 8,393	96,199 576	3	96,202 576	193,595 189,135	200,893 197,803
71 BFI 72 SDL	6,892 17	24,919 31,819	26,841 36,048	613 294	59,265 68,178	707 0	523 59	3,482 112	49 3	4,761 174	12	14,910 33,590	48,635 40,679	350 176	63,900 74,456	9 6	6,690 2,025	8,707 3,127	453 27	15,859 5,185	53,491 47,309	124 1	53,615 47,310	176,780 189,944	197,400 196,303
73 SJU 74 COS	95,885 25,373	30,767 12,991	9,262 16,896	765 5,261	136,679 60,521	0 65	80 56	17 97	95	99 313	69 15	35,017 5,899	6,273 34,410	236 7,780	41,595 48,104	3	8,065 1,639	6,787 422	335 1,015	15,190 3,076	816 70,909	14 10,820	830 81,729	179,104 190,354	194,393 193,743
75 SJC 76 PIE	118,085 16,780	24,827 19,912	20,152 22,171	92 2,807	163,156 61,670	38 37	2,492 93	2,270 810	264 14	5,064 954	2	374 3,990	8,192 24,606	65 3,408	8,633 32,007	3	1,175 193	8,685 4,924	530 533	10,390 5,653	5,868 87,452	12 1,732	5,880 89,184	177,669 182,861	193,123 189,468
77 RHV 78 MRI	34 1	52 2,396	2,506 2,466	13	2,592 4,876	48 31	15 77	25 50	0 386	88 544	1	478 14,436	63,489 69,236	6 32	63,974 83,705	0	158 334	3,614 2,265	21 511	3,793 3,112	118,031 95,254	0 4	118,031 95,258	184,597 183,839	188,478 187,495
79 SRQ 80 DWH	36,405 7	16,482 2,704	32,453 16,996	919 506	86,259 20,213	36 19	16 12	32 57	5	89 92	5	917 1,328	47,991 56,839	602 1,901	49,515 60,069	0	195 237	2,262 1,651	188 70	2,645 1,958	48,307 103,432	282 1,050	48,589 104,482	184,363 184,764	187,097 186,814
81 SAT 82 STL	105,737 152,112	18,711 16,031	33,498 5,293	2,463 940	160,409 174,376	229 166	33 1,843	164 2,107	80 111	506 4,227	14 595	7,169 232	11,331 798	1,186 495	19,700 2,120	1	1,181 1,166	3,692 2,333	735 16	5,608 3,516	32 142	697	39 839	180,148 177,335	186,262 185,078
83 PAE 84 TOA	8,614 0	2,917 575	13,843 11,477	395 39	25,769 12,091	18 4	70 18	247 169	8	343 194	95 0	567 21	54,739 77,644	20 67	55,421 77,732	0	606 12	3,176 6,958	9 285	3,791 7,255	97,507 84,975	557 7	98,064 84,982	179,254 174,805	183,388 182,254
85 CVG 86 ISP	168,624 11,222	6,011 7,213	3,775 10,571	49 290	178,459 29,296	154 16	286 1	459 12	7	906 30	6	262 7,257	1,566 41,768	35 1,035	1,869 50,060	0 52	190 166	353 946	30 82	573 1,246	216 98,712	0 322	216 99,034	180,544 178,390	182,023 179,666
87 HPN 88 PAO	29,651 4	51,263 218	34,167 4,842	44	115,125 5,064	94 600	93 2,041	158 2,155	37	345 4,833	3	4,752 646	36,614 54,263	52 22	41,418 54,934	2	325 1,191	2,871 4,532	50 298	3,246 6,023	17,052 105,710	0	17,054 105,710	173,597 165,708	177,188 176,564
89 CRQ 90 HWD	4 33	14,093 1,612	36,392 9,115	287 9	50,776 10,769	1 39,137	64 1,448	427 634	7 16	499 41,235	27 0	5,445 578	47,359 34,886	83 183	52,914 35,647	1 4	724 231	4,390 2,305	315 177	5,430 2,717	65,004 81,448	70 2	65,074 81,450	168,764 127,866	174,693 171,818
91 ABQ 92 DPA	58,609 21	20,000 10,758	12,582 19,554	3,498 56	94,689 30,389	40 8	18 33	16 99	12 0	86 140	11 7	5,318 1,516	25,453 43,818	9,851 84	40,633 45,425	3 0	5,116 59	2,331 2,572	562 3	8,012 2,634	23,067 90,871	4,250 240	27,317 91,111	162,639 166,925	170,737 169,699
93 PTK 94 PNS	386 26,818	11,525 8,497	34,053 19,552	44 9,220	46,008 64,087	1 15	79 29	816 54	21 84	917 182	38 2	1,576 1,525	38,449 36,343	97 11,051	40,160 48,921	0	81 2,607	2,469 645	13 3,106	2,563 6,359	79,027 45,818	3,123	79,027 48,941	165,195 161,949	168,675 168,490
96 PUB 96 FPR	77 40	4,577 14,039	6,143 16,482	1,828 72	12,625 30,633	0	5 156	13 190	14 0	32 349	4	3,911 23,362	22,198	51,562 69	66,251 45,633	1 15	85 626	173 2,464	109 176	368 3,281	13,590 86,568	75,149 80	88,739 86,648	167,615 162,914	168,015 166,544
97 SUS 98 BOI	76 60,012	17,034 8,924	22,123 20,559	778 2,023	40,011 91,518	67	36 55	155 28	13	200 163	7 67	6,025 3,322	37,697 33,827	429 4,630	44,158 41,846	0	156 4,445	1,937 761	33 54	2,126 5,260	73,180 18,072	244 854	73,424 18,926	157,593 152,290	159,919 157,713
99 FCM 100 LOU	5 1	6,247 635	22,719 8,858	16 30	28,987 9,524	12	52 75	127 86	5	182 178	4	2,383 6,486	46,128 45,931	80 746	48,593 53,167	2	387 687	1,277 1,073	33 181	1,697 1,943	70,395 84,871	56 0	70,451 84,871	148,031 147,562	149,910 149,683

Table 2.

In summary, the floor of several MOAs would be lowered to provide additional airspace for low-altitude training for the current missions of the primary aircraft using each MOA. The proposed floor compared to the existing floor of the MOAs is presented in **Table 2.1-2**. In addition, required training terrain variety in the region would be improved by establishing new low-altitude training airspace that covers a variety of vertical terrain features. The only vertical change to the ATCAAs would be the default scheduling for Outlaw and Jackal ATCAAs to FL510.

Table 2.1-2 Summary of Proposed Altitude Changes

MOA	Existing Floor (No Action)	Proposed Floor
Tombstone	500 feet AGL	100 feet AGL
Outlaw	8,000 feet MSL or 3,000 feet AGL, whichever is higher	500 feet AGL
Jackal	11,000 feet MSL or 3,000 feet AGL, whichever is higher	500 feet AGL
Jackal Low	100 feet AGL	No change
Morenci	1,500 feet AGL	No change
Reserve	5,000 feet AGL	No change
Bagdad	7,000 feet MSL or 5,000 feet AGL, whichever is higher	500 feet AGL
Gladden	7,000 feet MSL or 5,000 feet AGL, whichever is higher	500 feet AGL
Sells	10,000 feet MSL	No change
Sells Low	3,000 feet AGL	No change
Ruby	10,000 feet MSL	No change
Fuzzy	100 feet AGL	No change

Legend: AGL = above ground level; ATCAA = Air Traffic Control Assigned Airspace; FL = Flight Level; MOA = Military MSL = mean sea level.

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Table 3.

Supersonic flight is currently authorized in Gladden, Bagdad, and Sells MOAs at 10,000 feet MSL and above and would remain unchanged with the Proposed Action. The Proposed Action includes authorizing supersonic flight down to 5,000 feet AGL in Tombstone, Outlaw, Jackal, Morenci, and Reserve MOAs. The existing and proposed supersonic flight authorizations are provided in **Table 2.1-3**. These changes would increase the capacity of the regional airspace to support non-hazardous training that requires supersonic flight at lower altitudes.

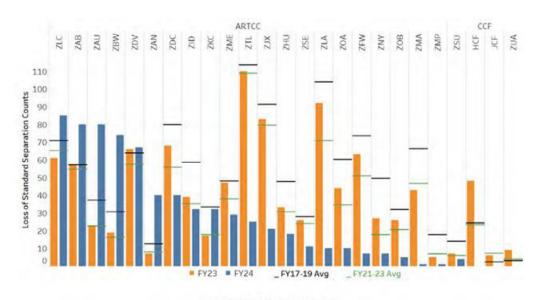
Table 2.1-3 Existing and Proposed Supersonic Flight Authorization

The state of the s										
MOA/ATCAA	Existing Minimum Altitude (No Action)	Proposed Minimum Altitude								
Tombstone	FL300	5,000 feet AGL								
Outlaw	FL300	5,000 feet AGL								
Jackal	FL300	5,000 feet AGL								
Morenci	FL300	5,000 feet AGL								
Reserve	FL300	5,000 feet AGL								
Bagdad	10,000 feet MSL	No change								
Gladden	10,000 feet MSL	No change								
Sells	10,000 feet MSL	No change								
Ruby	Not authorized	No change								
Fuzzy	Not authorized	No change								

Legend: AGL = above ground level; ATCAA = Air Traffic Control Assigned Airspace; FL = Flight Level; MOA = Military Operations Area; MSL = mean sea level.

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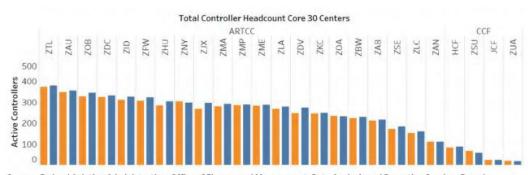
Table 4.



			Total	Losses of St	andard S	eparation			
FY17-19 Avg 1,221		FY21	FY21-23 Avg				FY24	% Chan	ge
		9	1,0	026		679	-33.89	6	
Center	FY17-19 Avg	FY21-23 Avg	FY23	FY24	Center	FY17-19 Avg	FY21-23 Avg	FY23	FY24
HCF	24	23	48	0	ZLA	104	71	92	10
JCF	2	7	6	0	ZLC	71	65	61	85
ZAB	57	55	57	80	ZMA	66	47	43	1
ZAN	13	8	7	40	ZME	48	38	47	29
ZAU	37	23	23	80	ZMP	18	7	5	1
ZBW	31	16	19	74	ZNY	50	18	27	7
ZDC	80	56	68	40	ZOA	60	35	44	10
ZDV	64	58	66	67					
ZFW	74	51	63	7	ZOB	32	21	26	5
ZHU	48	31	33	18	ZSE	28	24	26	11
ZID	59	35	39	32	ZSU	14	6	7	4
ZJX	91	80	83	21	ZTL	114	109	110	25
ZKC	33	18	17	32	ZUA	3	4	9	0

Source: Federal Aviation Administration, Air Traffic Organization, Safety and Technical Training, Office of Policy and Performance (AJI-3), unpublished Airborne Loss Event data, April 30, 2025.

Table 5



Source: Federal Aviation Administration, Office of Finance and Management, Data Analysis and Reporting Services Branch (ABP-230), Air Traffic Controller and Academy Movement Report - September FY2024, September 29, 2024.

Table 6.