

JAVELIN T-X TRAINER AIRCRAFT COMPARISON



Manufacturer Aircraft	STAVATTI JAVELIN-TX	STAVATTI SM-47TX	NORTHROP T-38	LOCKHEED T-50	LEONARDO M-346
First Flight	2018	2018	1959	2002	2004
Crew	2	2	2	2	2
Powerplant(s)	1 x F125-GA-100	1 x F414 EFE	2 x J85-5A	1 x F404-GE-102	2 x F124-GA-200
Thrust (lbs)	9,850	26,600	6,600	17,775	12,560
Span (ft)	24.00	33.33	25.25	30.08	31.89
Length (ft)	41.67	42.00	46.38	42.58	37.71
Height (ft)	9.00	12.33	12.88	15.69	16.33
Wing Area (sq ft)	176	308	170	225	253
MTOW (lbs)	12,500	21,500	12,500	29,696	20,945
Empty Weight (lbs)	7,100	14,900	7,200	14,198	10,165
External Warload (lbs)	1,600	600	0	6,062	6,614
Internal Fuel (lbs)	3,800	6,000	3,982	4,861	4,409
Internal Fuel (USG)	567	896	594	726	658
Stores Stations (No.)	6	0	None	7	6
Internal Gun	None	None	None	1 x M61A1 20mm	None
Max Speed @ ALT (Mach)	1.54	2.27	1.30	1.50	0.89
Stall Speed @ SL (KTAS)	95	106	129	105	90
Max Climb Rate (ft/Min)	28,200	51,500	33,600	39,567	21,000
Service Ceiling (ft)	50,000	55,000	55,000	48,500	45,000
Tactical Radius, Internal Fuel (nm)	922	634	500	500	270
Maximum Range, Internal Fuel (nm)	1,771	1,359	1,093	1,150	1,100
Ferry Range, External Tanks (nm)	2,782	1,907	-	1,403	1,500
Wing Loading (lbs/sq ft)	71	70	74	132	83
Thrust to Weight Ratio	0.79	1.24	0.53	0.60	0.60
Load Limits (g)	9.00	15.00	7.33	8.00	8.00
Takeoff Distance (ft)	1,267	962	4,002	1,131	1,050
Landing Distance (ft)	1,823	1,829	4,904	2,319	1,540
Relative Fuel Burn Ratio	0.212	0.227	0.274	0.697	0.606

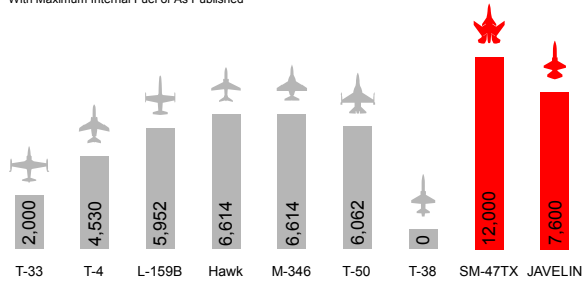


Manufacturer Aircraft	BAE Hawk 100	BOEING T-45A	AERO L-159B	KAWASAKI T-4	LOCKHEED T-33
First Flight	1974	1988	1997	1985	1948
Crew	2	2	2	2	2
Powerplant(s)	1 x Adour MK 871	1 x F405-RR-401	1 x F124-GA-100	2 x F3-IHI-30	1 x J33-A-35
Thrust (lbs)	5,845	5,845	6,330	7,360	5,400
Span (ft)	30.81	30.81	31.29	32.63	38.88
Length (ft)	38.33	38.33	41.73	42.67	37.75
Height (ft)	13.66	13.66	15.65	15.10	11.67
Wing Area (sq ft)	180	180	202.4	226	234.8
MTOW (lbs)	20,061	12,758	17,637	16,535	15,061
Empty Weight (lbs)	9,700	9,399	9,524	8,157	8,365
External Warload (lbs)	6,614	466	5,952	4,530	2,000
Internal Fuel (lbs)	2,875	2,893	2,806	3,848	5,447
Internal Fuel (USG)	429	432	419	574	813
Stores Stations (No.)	6	3	7	3	2
Internal Gun	1 x Aden MK4 30mm	None	None	None	None
Max Speed @ ALT (Mach)	0.88	0.85	0.76	0.90	0.79
Stall Speed @ SL (KTAS)	96	104	100	90	104
Max Climb Rate (ft/Min)	11,800	11,800	12220	10,000	4,870
Service Ceiling (ft)	44,500	42,250	43300	50,000	48,000
Tactical Radius, Internal Fuel (nm)	538	413	299	280	555
Maximum Range, Internal Fuel (nm)	1,400	826	659	700	1,109
Ferry Range, External Tanks (nm)	1,700	-	1242	900	1,275
Wing Loading (lbs/sq ft)	112	71	87.1	73	64.1
Thrust to Weight Ratio	0.29	0.46	0.36	0.45	0.36
Load Limits (g)	8.00	7.33	8.0	7.33	7.3
Takeoff Distance (ft)	2,100	3,744	4185	1,800	5600
Landing Distance (ft)	1,980	3,900	2675	2,200	4650
Relative Fuel Burn Ratio	0.310	0.286	0.802	0.674	1.512

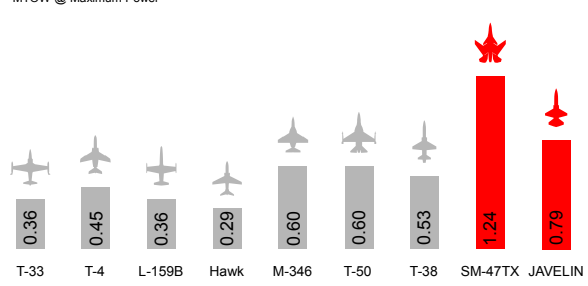
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JAVELIN T-X

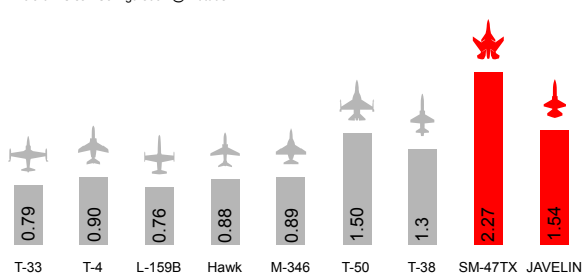
Maximum Warload (lbs)
With Maximum Internal Fuel or As Published



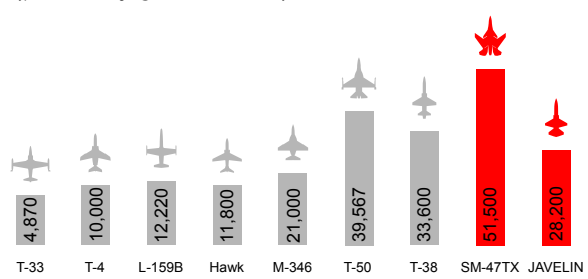
Thrust-to-Weight Ratio
MTOW @ Maximum Power



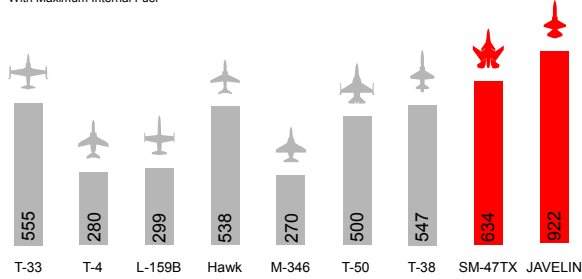
Maximum Level Speed (MACH)
Aircraft in Clean Configuration @ Altitude



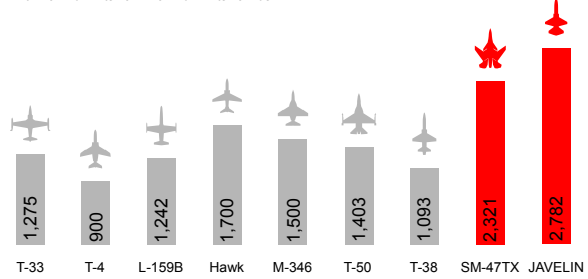
Maximum Climb Rate (ft/min)
Typical Combat Weight @ Sea Level, Standard Day



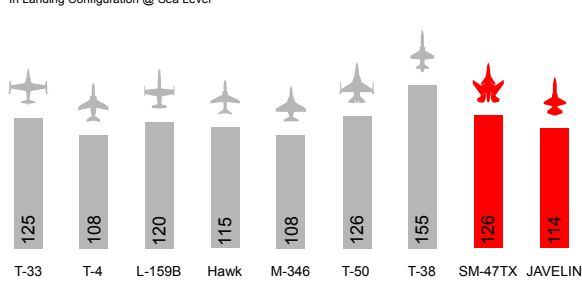
Tactical Radius (nm)
With Maximum Internal Fuel



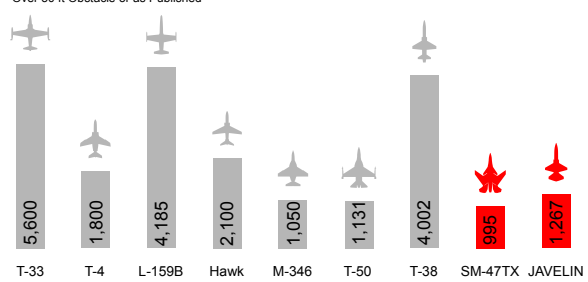
Maximum Range (nm)
With Maximum Internal + Maximum External Fuel



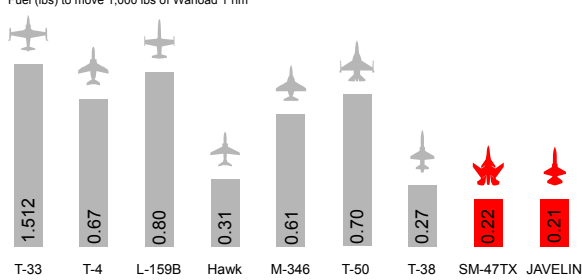
Approach Speed (KTAS)
In Landing Configuration @ Sea Level



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Landing Distance (ft)
Over 50 ft Obstacle or as Published

