

Eclipse 550 Jet Comparison Chart



		Fly Today ...						Fly Tomorrow?	
		Jets				Turbo Props		Jets of the Future?	
Comparison Item		Eclipse 550	Citation Mustang	Embraer Phenom 100	Citation M2	Daher TBM 900	Piper Meridian	Cirrus Vision	HondaJet
COST	Price (2013 Economics)	\$2.995MM	\$3.465MM	\$4.161MM	\$4.655MM	\$3.711MM	\$2.276MM	\$1.96MM	\$4.5MM
	Max Cruise Speed	375 kt	340 kt	390 kt	401 kt	320 kt	257 kt	300 kt	420 kt
PERFORMANCE	NBAA IFR Range w/ 4 Occupants	1,125 nm	1,050 nm	1,048 nm	1,198nm	1,150 nm	579 nm	900 nm	1,180 nm
	Max Altitude / Ceiling	41,000 ft	41,000 ft	41,000 ft	41,000 ft	31,000 ft	30,000 ft	25,000 ft	43,000 ft
	Cruise Fuel Flow	48-59 gal / hr	75-91 gal / hr	78-127 gal / hr	77 - 137 gal / hr	38-65 gal / hr	20-36 gal / hr	N / A	N / A
	Available Payload w/ Max Fuel	636 lbs	590 lbs	580 lbs	491 lbs	624 lbs	318 lbs	N / A	644
	Takeoff Distance	2,433 ft	3,110 ft	3,400 ft	3,210 ft	2,035 ft	1,650 ft	N / A	3,120 ft
	Landing Distance	2,790 ft	2,390 ft	3,000 ft	2,340 ft	1,840 ft	1,020 ft	N / A	2,500 ft
	Time to Climb to 37,000 ft	25 min	20 min	23 min	18 min	Unable	Unable	Unable	N / A
	All Engine Rate of Climb (@ Sea Level)	3,424 fpm	3,010 fpm	3,033 fpm	3,698 fpm	1,550 fpm	1,540 fpm	3,000 fpm	3,990 fpm
	One Engine Inop. Rate of Climb*	407 fpm	432 fpm	560 fpm	618 fpm	Emergency Landing	Emergency Landing	Emergency Landing	N / A
	One Engine Inop. Service Ceiling	35,000 ft	26,900 ft	26,860 ft	26,800 ft	Emergency Landing	Emergency Landing	Emergency Landing	N / A
1,000 NM MISSION Assumes 4 Passengers	Flight Time	1 + 48	1 + 56	1 + 50	1 + 38	1 + 59	2 + 32	N / A	N / A
	Fuel Used	885 lbs	1,133 lbs	1,213 lbs	1,362 lbs	900 lbs	661 lbs	N / A	N / A
	Mission Fuel Cost **	\$832	\$1,066	\$1,138	\$1,270	\$846	\$622	N / A	N / A
	Specific Range ***	0.678	0.530	0.495	0.441	0.667	0.908	N / A	N / A
600 NM MISSION	Flight Time	3 + 15	3 + 19	3 + 04	2 + 43	3 + 15	Unable	N / A	N / A
	Fuel Used	1,140 lbs	1,717 lbs	1,870 lbs	2,018 lbs	1,430 lbs	Unable	N / A	N / A
	Mission Fuel Cost **	\$1,072	\$1,614	\$1,757	\$1,886	\$1,345	Unable	N / A	N / A
	Specific Range ***	0.877	0.582	0.535	0.496	0.699	Unable	N / A	N / A

INFORMATION UNCERTIFIED BY THE FAA

* OEI Part 25 Performance calculation based on: Sea Level, ISA, MTOW, Takeoff second-segment net climb
 ** Fuel Cost at \$6.30 per gallon
 *** Distance Flown / Total Fuel Burn = Nautical Miles / Pounds of Fuel

Sources
 Conklin & de Decker Associations; Business & Commercial Aviation, August 2014; Manufacturer's Aircraft specifications from their respective websites