



**ECLIPSE  
AEROSPACE**

# Eclipse 500 Jet Comparison Chart

Fly Today ...

Fly Tomorrow?

Comparison Item		Jets			Turbo Props			Jets of the Future?			
		Total Eclipse	Cessna Mustang	Embraer Phenom 100	Beechcraft King Air C90	EADS Socata TBM 850	Piper Meridian	Piper Jet	Cirrus Vision	Diamond Jet	HondaJet
COST	Price (2011 Economics)	\$2.15MM	\$3.198MM	\$3.91MM	\$3.77MM	\$3.29MM	\$2.07MM	\$2.5MM	\$1.72MM ??	\$1.99MM	\$4.5MM
	Year Available	Now	Now	Now	Now	Now	Now	2013?	2014?	2013?	2013?
PERFORMANCE	Max Cruise Speed	375 kt	340 kt	390 kt	272 kt	320 kt	257 kt	360 kt	300 kt	315 kt	420 kt
	NBAA IFR Range w/ 4 Occupants	1,125 nm	1,050 nm	1,048 nm	1,005nm	1,150 nm	579 nm	1,300 nm	800 nm	856 nm	1,180 nm
	Max Altitude / Ceiling	41,000 ft	41,000 ft	41,000 ft	30,000 ft	31,000 ft	30,000 ft	35,000 ft	25,000 ft	25,000 ft	43,000 ft
	Cruise Fuel Flow	48-51	75-91	78-127	50-91	38-65	20-36	N / A	N / A	40-80	N / A
	Available Payload w/ Max Fuel	702	590	580	737	624	318	800	N / A	500	644
	Takeoff Distance	2,394 ft	3,110 ft	3,400 ft	2,552 ft	2,035 ft	1,650 ft	2,438 ft	N / A	2,372 ft	3,120 ft
	Landing Distance	2,342 ft	2,390 ft	3,000 ft	2,363ft	1,840 ft	1,020 ft	2,110 ft	N / A	N / A	2,500 ft
	Time to Climb to 37,000 ft	25 min	20 min	23 min	Unable	Unable	Unable	20 min	Unable	Unable	N / A
	All Engine Rate of Climb	3,456 fpm	3,010 fpm	3,033 fpm	1,470 fpm	1,550 fpm	1,540 fpm	3,500 fpm	3,000 fpm	1,666 fpm	3,990 fpm
	One Engine Inop. Rate of Climb	1,010 fpm	870 fpm	844 fpm	474 fpm	Emergency Landing	Emergency Landing	Emergency Landing	Emergency Landing	Emergency Landing	N / A
	One Engine Inop. Service Ceiling	35,000 ft	26,900 ft	26,860 ft	19,170 ft	Emergency Landing	Emergency Landing	Emergency Landing	Emergency Landing	Emergency Landing	N / A
600 NM MISSION	Flight Time	1 + 48	1 + 56	1 + 50	2 + 22	1 + 59	2 + 32	N / A	N / A	N / A	N / A
	Fuel Used	885 lbs	1,133 lbs	1,213 lbs	1,351 lbs	900 lbs	661 lbs	N / A	N / A	N / A	N / A
	Mission Fuel Cost *	\$523	\$670	\$717	\$798	\$532	\$391	N / A	N / A	N / A	N / A
	Specific Range **	0.678	0.530	0.495	0.444	0.667	0.908	N / A	N / A	N / A	N / A
1,000 NM MISSION	Flight Time	3 + 15	3 + 19	3 + 04	3 + 56	3 + 15	4 + 34	N / A	N / A	N / A	N / A
	Fuel Used	1,140 lbs	1,717 lbs	1,870 lbs	1,996 lbs	1,430 lbs	920 lbs	N / A	N / A	N / A	N / A
	Mission Fuel Cost *	\$674	\$1014	\$1105	\$1179	\$845	\$544	N / A	N / A	N / A	N / A
	Specific Range **	0.877	0.582	0.535	0.501	0.699	1.087	N / A	N / A	N / A	N / A

INFORMATION UNCERTIFIED BY THE FAA

\* Fuel Cost at \$4.00 per gallon

\*\* Distance Flown / Total Fuel Burn = Nautical Miles / Pounds of Fuel

**Sources**

Conklin & de Decker Associations; Business & Commercial Aviation, May 2010; 2010 NBAA Light Business Airplane Buyer's Guide; AOPA Online; Plane & Pilot Magazine, October 2009, Vol 52 / No 10; Manufacturer's Aircraft specifications from their respective websites

N / A = Not Available