

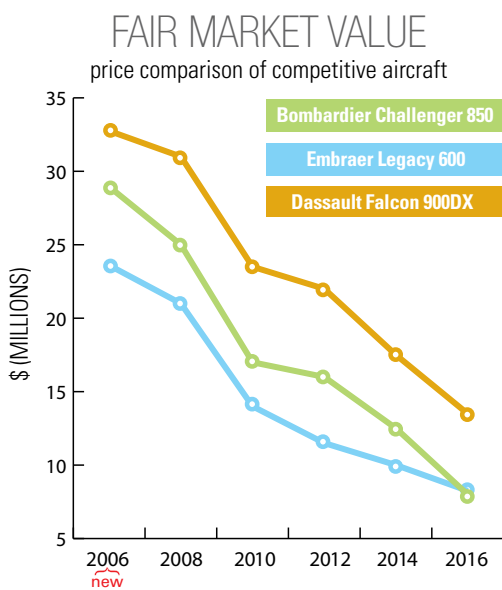
2006 Bombardier Challenger 850 Specifications

CABIN	
Height	6.08 ft
Width	8.17 ft
Length	48.42 ft
Volume	1,964 cu ft
Door height	5.8 ft
Door width	3.08 ft
Seats (crew/passengers)	2/15
BAGGAGE	
Internal	202 cu ft
WEIGHTS	
Maximum takeoff	53,000 lb
Basic operating	34,618 lb
Usable fuel	18,274 lb
Payload—full fuel	358 lb
Payload—maximum	9,382 lb

2006 Bombardier Challenger 850 Performance

RANGE (IFR NBAA 200 NM RESERVE)	
Seats full	2,456 nm
Ferry range (no pax)	3,096 nm
TAKEOFF & LANDING	
Rate of climb	3,395 ft/min
Rate of climb (one engine out)	443 ft/min
SPEEDS	
Maximum	459 kt
Long range	425 kt
CEILINGS	
Service at MTOW	37,760 ft
Service (one engine out)	19,370 ft

Source: Conklin & De Decker, Orleans, Mass.



2006 Bombardier Challenger 850 Economics

HOURLY DIRECT OPERATING COSTS	
Fuel (\$6/gal)	\$2,076
Maintenance labor (\$105/hour)	\$170
Parts, airframe, engine, avionics	\$206
Inspections, component overhauls, life limited parts	\$425
Engine restoration	\$499
APU overhaul	\$2
Landing and parking fees	\$63
Crew expenses	\$307
Supplies and catering	\$162
Total	\$3,910

ANNUAL FIXED OPERATING COSTS	
Crew Salaries (Est.)	
Captain	\$144,000
Copilot	\$108,000
Cabin attendant	\$76,966
Benefits	\$98,690
Hangar rental (typical)	\$71,300
Insurance (Insured Hull Value, \$31 million, Hull 0.15% of value)	\$46,500
Single-limit liability	\$12,500
Recurrent crew training	\$50,000
Aircraft modernization (avg. per year)	\$50,000
Navigational chart service	\$18,325
Refurbishing	\$165,375
Computer maintenance program	\$10,500
Aviation weather service (typical)	\$700
Total	\$852,856

TOTAL ANNUAL COSTS (WITHOUT DEPRECIATION)	
Variable costs	\$1,789,695
Fixed operating costs	\$852,856
Total	\$2,642,551
Per flight hour	\$5,872
Per nautical mile	\$15.10
Per seat nautical mile	\$1.01

TOTAL ANNUAL COSTS (WITH BOOK DEPRECIATION)	
Variable costs	\$1,789,695
Fixed operating costs	\$852,856
Depreciation (10%)	\$3,100,000
Total	\$5,742,551
Per hour	\$12,762
Per nautical mile	\$32.81
Per seat nautical mile	\$2.19

TOTAL ANNUAL COSTS (WITH MARKET DEPRECIATION)	
Variable costs	\$1,789,695
Fixed operating costs	\$852,856
Depreciation	\$1,240,000
Total	\$3,882,551
Per hour	\$8,628
Per nautical mile	\$22.19
Per seat nautical mile	\$1.48

ASSUMPTIONS	
Annual hours	450
Annual nautical miles	175,000
Seats	15

Source: Conklin & De Decker, Orleans, Mass.

Bombardier Challenger 850 compared with other aircraft

Model	First year produced	Variable cost/hour	Seats exec/max	Range (nm)	Normal cruise (kt)	Max takeoff weight (lb)
Challenger 850	2006	\$3,977	15/19	2,946	442	53,000
Legacy 600	2002	\$3,926	13/15	3,429	447	49,604
Falcon 900DX	2005	\$4,349	12/19	4,050	459	46,700

Assumptions: Aircraft are 2006 models. Jet fuel \$6/gal; variable cost: fuel plus maintenance reserves; four passengers; NBAA IFR 200 nm reserve fuel; passenger weight 200 lb includes baggage; two pilots.

Cost source: Conklin & de Decker Life Cycle Cost

Performance source: Conklin & de Decker Aircraft Performance Comparator, Orleans, Mass.