

performance

(2002 Beechjet 400A)

RANGE (IFR NBAA 200nm reserve)

- Seats full: 1,180 nm
- Ferry range: 1,519 nm

RATE OF CLIMB

- 4,020 fpm
- One engine not operating: 560 fpm

CRUISE SPEED

- Max: 458 kt
- Long range: 410 kt

SERVICE CEILING

- Both engines (max): 45,000 ft
- One engine: 20,600 ft

Source: Conklin & de Decker, Orleans, Mass.

specifications

(2002 Beechjet 400A)

CABIN DIMENSIONS

- Height: 4.8 ft
- Width: 4.9 ft
- Length: 15.6 ft
- Volume: 293 cu ft
- Door height: 4.16 ft
- Door width: 2.41 ft

BAGGAGE:

- Internal: 12 cu ft
- External: 33 cu ft

TYPICAL SEATS CREW/PASSENGERS: 2/7

MAXIMUM WEIGHTS

- Takeoff: 16,100 lb
- Basic operating: 10,915 lb
- Usable fuel: 4,912 lb
- Maximum payload: 2,085 lb

economics

(2002 Beechjet 400A)

HOURLY DIRECT OPERATING COSTS

- Fuel (\$7.13 per gal): \$1,582.86
- Maintenance labor (at \$90/hour): \$128.70
- Parts, airframe, engine, avionics: \$75.51
- Inspections, component overhauls, life limited parts: \$199.61
- Engine restoration: \$424.92
- Misc. expenses
 - Landing and parking fees: \$18.41
 - Crew expenses: \$71.36
 - Supplies & catering: \$33.96

TOTAL VARIABLE FLIGHT COSTS PER HOUR: \$2,535.33

Average speed: 412 knots

– Cost per nautical mile: \$6.15

ANNUAL FIXED OPERATING COSTS

- Crew salaries (estimates)
 - Captain: \$92,000
 - Copilot: \$60,000
 - Benefits: \$45,600
- Hangar rental (typical): \$28,700
- Insurance (insured hull value = \$1.25 million)
 - Hull (0.4% of value): \$5,000
 - Single limit liability: \$8,500
- Recurrent crew training: \$25,400
- Aircraft modernization (avg per year): \$45,000
- Navigational chart service: \$3,742
- Refurbishing: \$18,900
- Computer maintenance program: \$3,000
- Aviation weather service (typical): \$700

TOTAL FIXED COST PER YEAR: \$336,542

ANNUAL BUDGET—BASED ON 175,000 NM

(Utilization: 425 hours)

- Variable cost: \$1,077,515
- Fixed cost: \$336,542

TOTAL FIXED COST (WITHOUT DEPRECIATION): \$1,414,057

- Per hour: \$3,327
- Per nautical mile: \$8.08
- Per seat nautical mile: \$1.15

Total cost (without depreciation): \$1,414,057

– Book depreciation (10% per year): \$125,000

TOTAL COST (WITH BOOK DEPRECIATION): \$1,539,057

- Per hour: \$3,621
- Per nautical mile: \$8.79
- Per seat nautical mile: \$1.26

Total cost (without depreciation): \$1,414,057

– Market depreciation: \$50,000

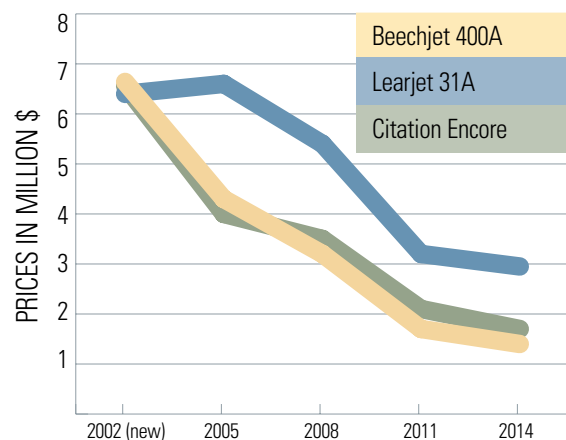
TOTAL COST (WITH MARKET DEPRECIATION): \$1,464,057

Per hour: \$3,445

- Per nautical mile: \$8.37
- Per nautical seat mile: \$1.20

Source: Conklin & de Decker, Orleans, Mass.

FAIR MARKET VALUE



Source: Vref Publications

BEECHJET 400A COMPARED WITH OTHER AIRCRAFT

Model	First year produced	Variable cost/hour	Seats exec/max	Range (nm)	Normal cruise (kt)	Max takeoff weight (lb)
Beechjet 400A	1986*	\$2,535	7/9	1,318	458	16,100
Learjet 31A	1988**	\$2,495	6/10	1,251	462	17,200
Citation Encore	2000	\$2,395	7/9	1,695	430	16,630

*Model 400 **Model 31

Assumptions: Aircraft are 2002 models. Jet fuel \$7.13/gal; variable cost: fuel plus maintenance reserves; four passengers; NBAA IFR 200-nm reserve fuel; passenger weight 200 lb includes baggage; two pilots, one cabin attendant.

Cost source: Conklin & de Decker Life Cycle Cost

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