

2000 Citation VII

CABIN

Height	5.7
Width	5.5
Length	18.4
Volume	422.00
Door Height	5.7 ft
Door Width	2.7 ft
Seats (crew/passengers)	2/12

BAGGAGE

External	54
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WEIGHTS

Max Take-off	23,000 lb
Maximum Landing	20,000 lb
Basic Operating	14,250 lb
Usable Fuel	7,330 lb
Payload-Full Fuel	1,620 lb
Payload-Maximum	2,250 lb

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RANGE (IFR NBAA 200 NM RESERVE)

Seats Full	3,450 nm
Ferry Range (no pax)	4,080

TAKEOFF & LANDING

Balanced Field Length	5,170
Landing Field Length - FAR 121	4,500
Rate Of Climb	4,315 ft/min
Rate Of Climb (one engine out)	510

SPEEDS

Maximum	452
Normal	452
Long Range	417
Stall Speed (IAS)	89

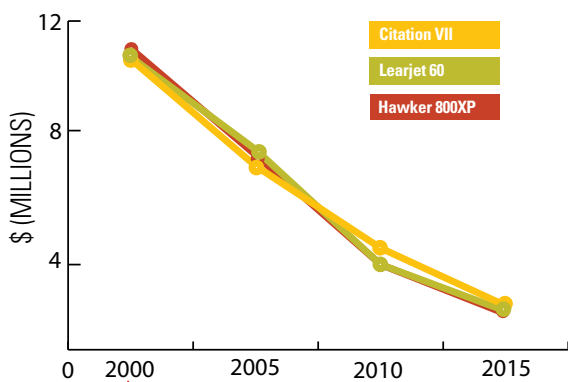
CEILINGS

Service At Mtow	43,000
Service (one engine out)	22,000

Source: Conklin & De Decker, Orleans, Mass.

FAIR MARKET VALUE

price comparison of competitive aircraft



Source: Vref Publications (vrefonline.com)

2000 Citation VII

HOURLY DIRECT OPERATING COSTS

Fuel (\$6.20/gal)	\$1,786
Maintenance labor (\$105/hour)	\$342
Parts, airframe, engine, avionics	\$273
Inspections, component overhauls, life limited parts	\$258
Engine restoration	\$608
APU overhaul	\$50
Landing and parking fees	\$27
Crew expenses	\$102
Supplies and catering	\$54
Total	\$3,500

ANNUAL FIXED OPERATING COSTS

Crew Salaries (Est.)	
Captain	\$120,000
Copilot	\$80,000
Benefits	\$60,000
Hangar rental (typical)	\$34,700
Insurance (Insured Hull Value, \$2.65 million, Hull 0.5% of value)	\$13,250
Single-limit liability	\$8,500
Recurrent crew training	\$26,200
Aircraft modernization (avg. per year)	\$52,500
Navigational chart service	\$3,986
Refurbishing	\$29,400
Computer maintenance program	\$4,000
Aviation weather service (typical)	\$700
Total	\$433,236

TOTAL ANNUAL COSTS (WITHOUT DEPRECIATION)

Variable costs	\$1,435,353
Fixed operating costs	\$433,236
Total	\$1,868,589
Per flight hour	\$4,558
Per nautical mile	\$10.68
Per seat nautical mile	\$1.53

TOTAL ANNUAL COSTS (WITH BOOK DEPRECIATION)

Variable costs	\$1,435,353
Fixed operating costs	\$433,236
Depreciation (10%)	\$220,000
Total	\$2,088,589
Per hour	\$5,094
Per nautical mile	\$11.93
Per seat nautical mile	\$1.70

TOTAL ANNUAL COSTS (WITH MARKET DEPRECIATION)

Variable costs	\$1,435,353
Fixed operating costs	\$433,236
Depreciation (5%)	\$110,000
Total	\$1,978,589
Per hour	\$4,826
Per nautical mile	\$11.31
Per seat nautical mile	\$1.62

ASSUMPTIONS

Annual hours	410
Annual nautical miles	175,000
Seats	7

Source: Conklin & De Decker, Orleans, Mass.

Cessna Citation VII compared with other aircraft

Model	First year produced	Variable cost/hour	Seats exec/max	Range (nm)	Normal cruise (kt)	Max takeoff weight (lb)
Citation VII	1992	\$3,501	2/7	1,742	452	23,000
Learjet 60	1993	\$2,746	2/7	2,134	465	23,500
Hawker 800XP	1984	\$3,661	2/8	2,539	449	28,000

Assumptions: Aircraft are 2000 models. Jet fuel \$6.20/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.