




Cessna Citation X



RANGE
2,890 nm



SPEED
525 kts



PASSENGERS
8 people



Cost			
ACQUISITION COST	ANNUAL COST	VARIABLE COST	FIXED COST
\$9,200,000	\$2,424,365	\$3,834/hr	\$890,791
MAX PAYLOAD	2,375 lb	ENGINES	2 Rolls Royce AE 3007C1
TOTAL CABIN AREA	538 cu ft	AVIONICS	Honeywell Primus Elite
WINGSPAN	63.9 ft	APU	Standard

Assumptions

⊛ This report uses custom assumptions that differ from Conklin & de Decker default values for Annual Utilization (Hours), Fuel Price (Jet A).

ANNUAL UTILIZATION (DISTANCE)	188,400 nm	FUEL PRICE (JET A)	\$4.45/gal
ANNUAL UTILIZATION (HOURS)	400 hrs	LABOR COST	\$136/hr
AVERAGE SPEED (STANDARD TRIP)	471 kts	ACQUISITION COST	\$9,200,000

Cessna Aircraft Company

The Cessna-Roos Aircraft Company was incorporated on September 7, 1927, by Clyde V. Cessna and Victor Roos. One month later, Roos resigned and sold his interest back to Cessna. Later that year, the company was renamed the Cessna Aircraft Company. Cessna continued work on the "A" series of aircraft he had begun during his partnership with Walter Beech, Lloyd Stearman and the Travel Air Aircraft Company. The partnership and Travel Air dissolved shortly before Cessna Aircraft Company was established.

The "A" series aircraft were single-wing aircraft that eliminated the need for wing struts. Cessna began offering five variations of this aircraft that were called the AW (the "W" represented the Wright engine these aircraft came equipped with). After the "A" series, Cessna developed the "B" and "C" series aircraft. In 1929, the success of these models led to the financing and development of the "D" series aircraft, Chief and Scout. All was going well, including the building of a 55,000-square-foot plant, until the stock market crash in October 1929 and the beginning of the Great Depression.

The economic conditions meant demand for private aircraft dried up and Cessna had to close its doors in 1931 and rent out the buildings. The company never went bankrupt but did not build aircraft for the next three years. In 1934, Cessna's nephews, Dwane and Dwight Wallace, took control of the company. Clyde Cessna sold his shares in the company to the Wallace brothers. With the Wallace brothers at the helm, the Cessna Aircraft Company built its first twin-engine aircraft, the T-50 Bobcat. In 1940, the U.S. Army ordered 33 of these specially equipped aircraft, which was Cessna Aircraft Company's largest order to date. Later in the year, the Royal

Canadian Air Force ordered an additional 180 T-50s.

During WWII, Cessna expanded from a company that employed 200 people in 1940 to 6,074 by 1944. At the end of the war, Cessna was able to continue producing aircraft to sustain a short-lived demand for small aircraft that could be used for short flights. Cessna entered the business aircraft market in 1954 with production of the T-37, its first jet-powered aircraft. The U.S. Air Force purchased more than 1,000 of these to use as trainers. The Citation line of aircraft was introduced in 1972, when the Citation 500 entered service. In 1985, Cessna became a wholly owned subsidiary of General Dynamics, who then sold Cessna to Textron in 1992. Although the economic downturn from 2008 to 2010 caused Cessna to lay off more than half its workforce, Cessna is still one of the top business and general aviation aircraft companies in the world.

Cessna Citation X

At its launch, the Citation X was Cessna's largest, fastest and longest-range aircraft, and the fastest business jet in production. The Citation X has a cabin that is 5 feet longer, with greater head and shoulder room than that of the Citation III.

The Citation X comes with FADEC-equipped Rolls-Royce AE 3007C1 engines that produce 6,000 pounds of thrust each. The Citation X also has a new technology wing with a sweep of 37 degrees. It has a Honeywell Primus 2000 electronic flight instrument system avionics suite with five color LCD displays.

The prototype flew for the first time on December 21, 1993. The first customer delivery was to the golfer, Arnold Palmer, in 1996.

1. Cost

ACQUISITION COST

\$9,200,000

ANNUAL COST

\$2,424,365

VARIABLE COST

\$3,834/hr

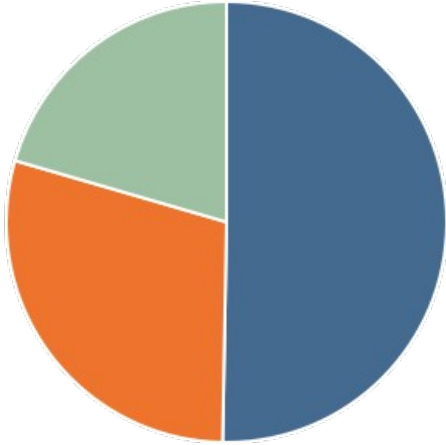
FIXED COST

\$890,791

Total Annual Cost With Market Depreciation

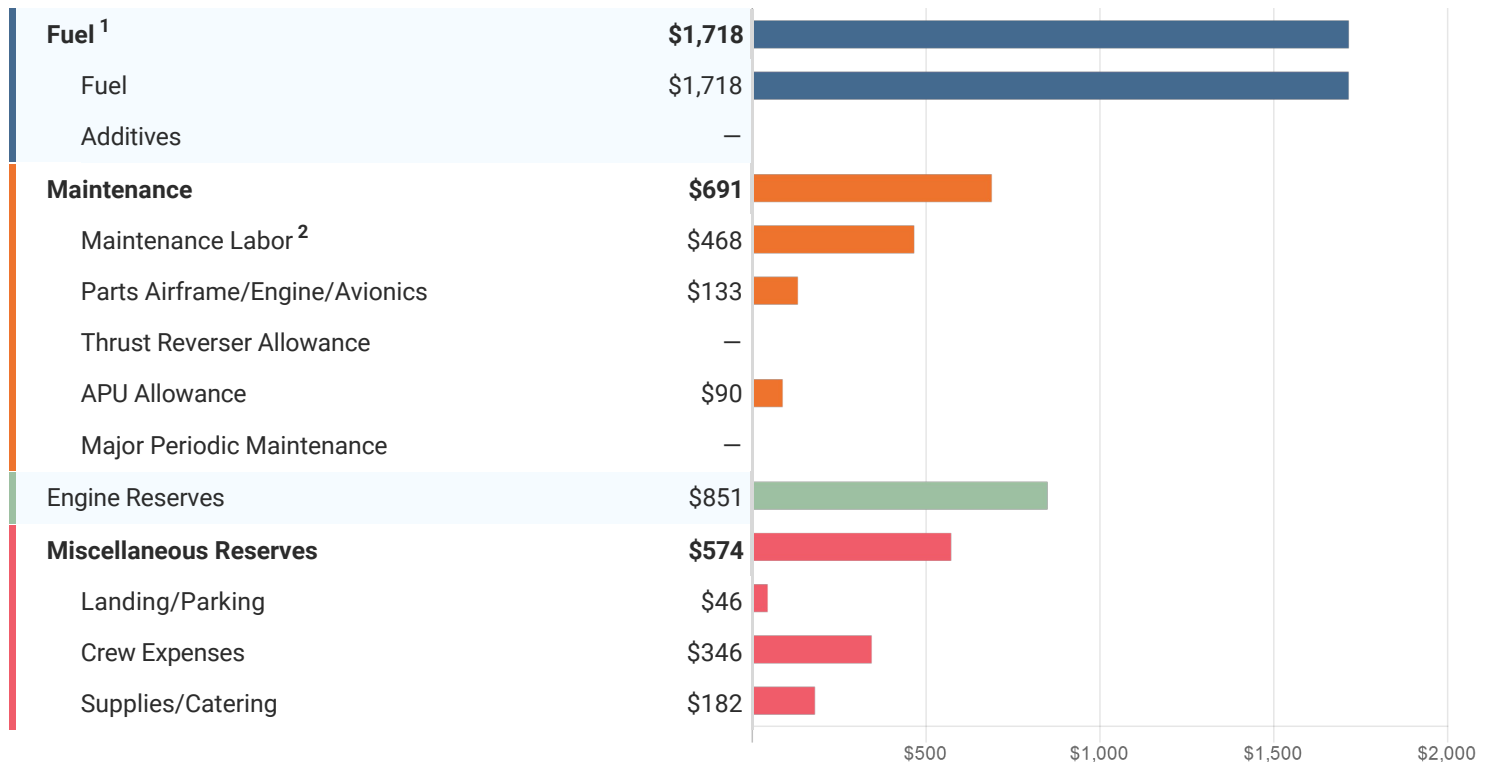
\$3,049,965

- 50% - Variable Cost - \$1,533,574
- 29% - Fixed Cost - \$890,791
- 21% - Market Depreciation - \$625,600



Hourly Variable Cost

PER FLIGHT HOUR

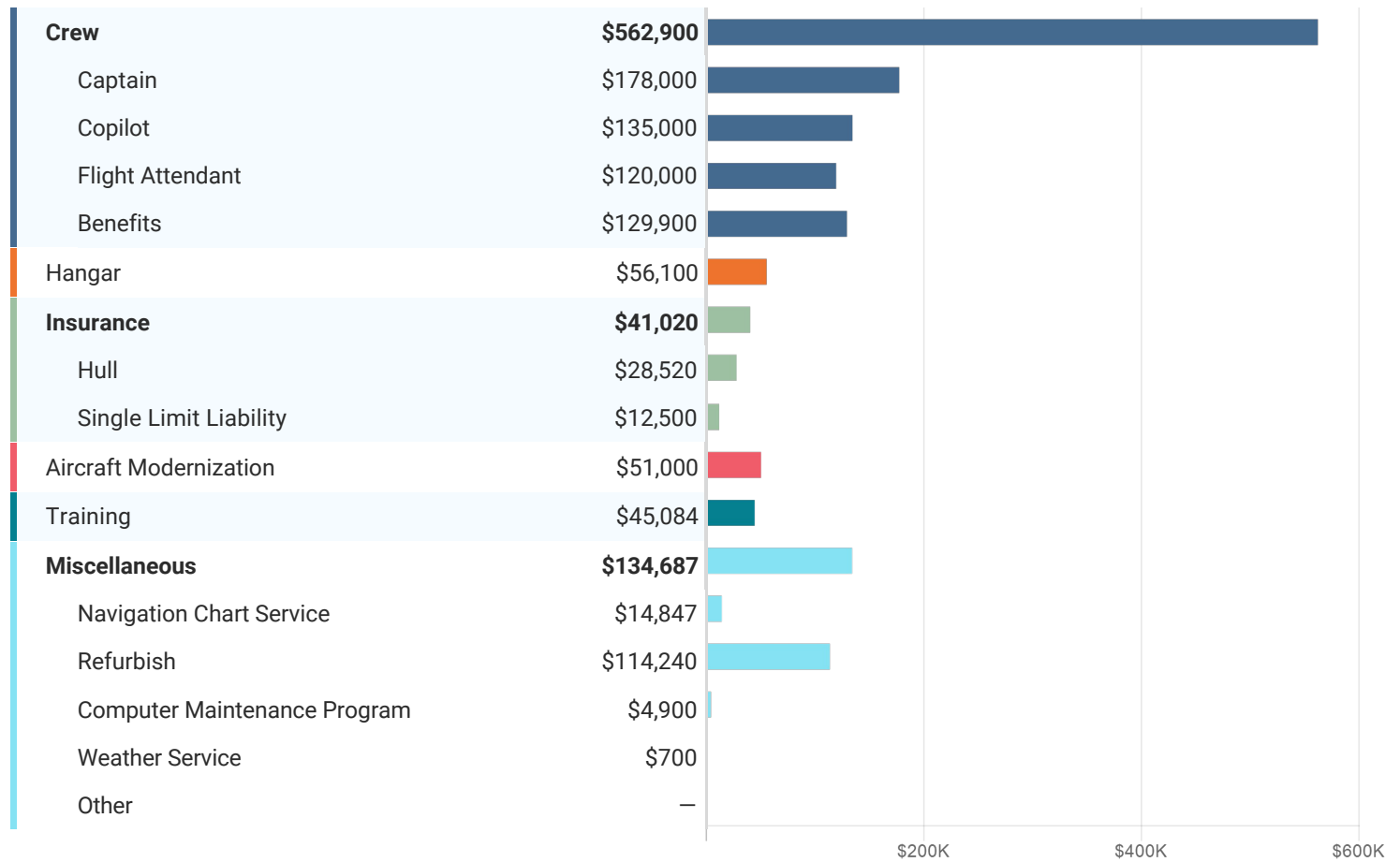
\$3,834/hr

1. Fuel is calculated using Fuel Cost x Fuel Burn + 15% - 386 gal/hr

2. Maintenance Labor Cost is calculated using the ratio of Maintenance Labor Hours per Flight Hour and the Labor Rate: 3.44 labor-hr/Fhr @ \$136/hr

Annual Fixed Cost

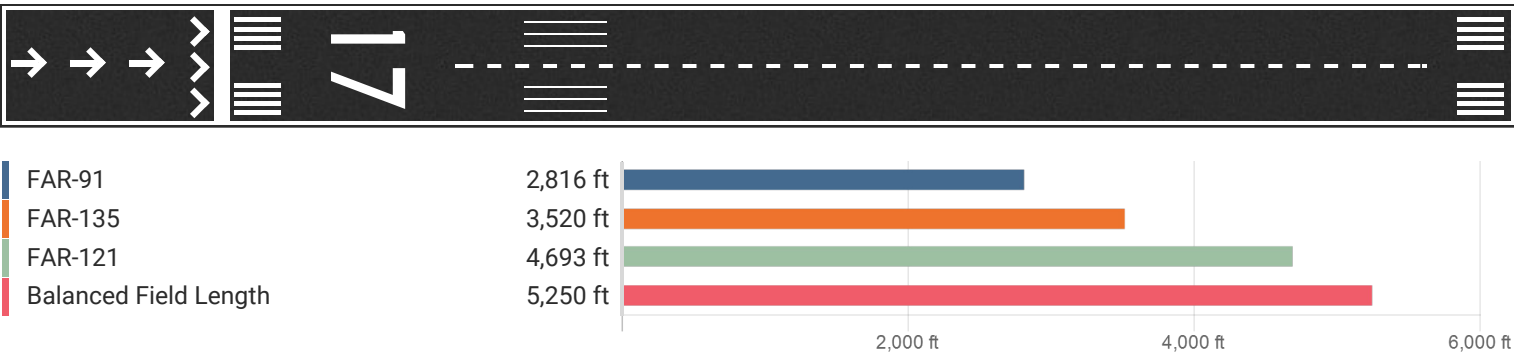
ANNUAL COST

\$890,791

2. Performance

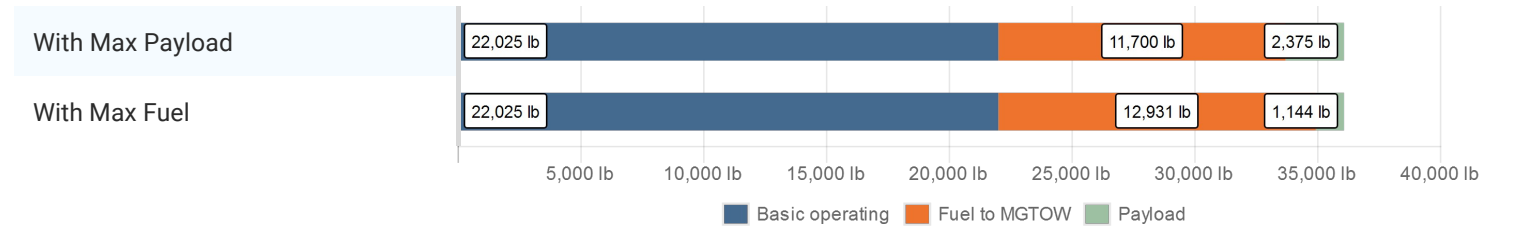
NORMAL CRUISE		LONG-RANGE CRUISE		MAXIMUM CRUISE	
525 kts		470 kts		525 kts	
RATE OF CLIMB		MAX CERT. ALTITUDE		INITIAL CRUISE ALTITUDE	
3,650 ft/min		51,000 ft		43,000 ft	
				TIME TO CRUISE ALTITUDE	
				28 min	
ENGINE OUT RATE OF CLIMB		ENGINE OUT CEILING			
1,120 ft/min		26,000 ft			

Field Length



3. Weight/Payload

Weight Breakdown



With Max Payload

MAXIMUM PAYLOAD	RANGE AT MAX PAYLOAD
2,375 lb	2,840 nm

With Max Fuel

AVAILABLE PAYLOAD	PASSENGER CAPACITY
1,444 lb	7.2 people

RAMP	36,400 lb	MAX TAKEOFF	36,100 lb
MAX LANDING	31,800 lb	ZERO FUEL	24,400 lb
BASIC OPERATING	22,025 lb	USABLE FUEL	12,931 lb
USEFUL LOAD	14,375 lb		

4. Range



Long-Range Cruise

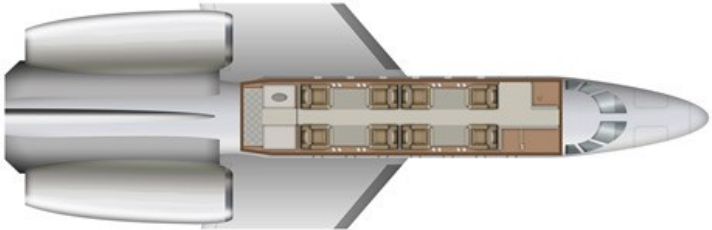
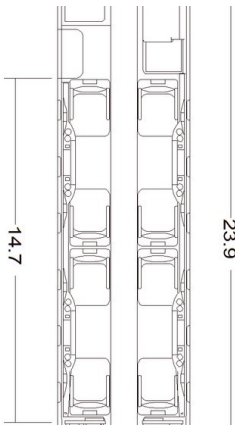
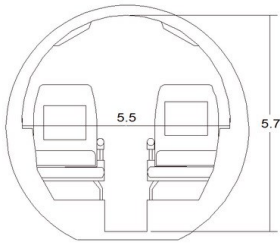
RANGE	AVERAGE SPEED
3,140 nm	470 kts
ENDURANCE	PASSENGERS
6.68 hrs	4 people

Maximum Cruise

RANGE	AVERAGE SPEED
2,915 nm	500 kts
ENDURANCE	PASSENGERS
5.83 hrs	4 people

SEATS FULL RANGE	2,890 nm
FERRY RANGE	3,125 nm

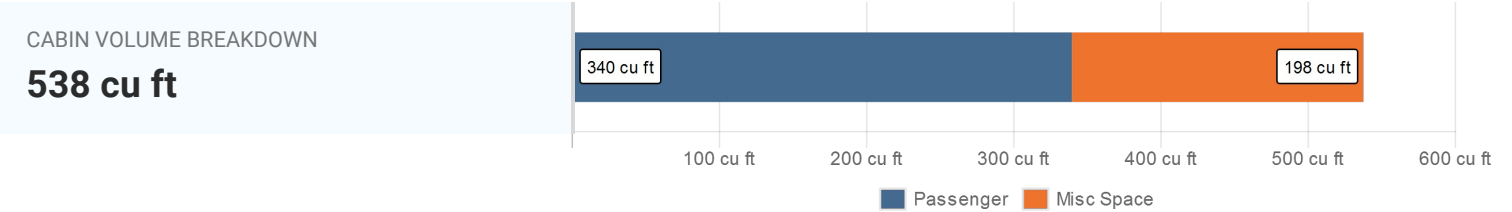
5. Interior



PASSENGERS
8 people

CREW
2 people

AREA PER PASSENGER
42.5 cu ft/person



TOTAL CABIN AREA
538 cu ft

PASSENGER AREA
340 cu ft

MISC SPACE (GALLEY, LAV, ETC.)
198 cu ft

CABIN WIDTH
5.5 ft

CABIN LENGTH
23.92 ft

CABIN HEIGHT
5.7 ft

TOTAL BAGGAGE AREA
82 cu ft

INTERNAL
—

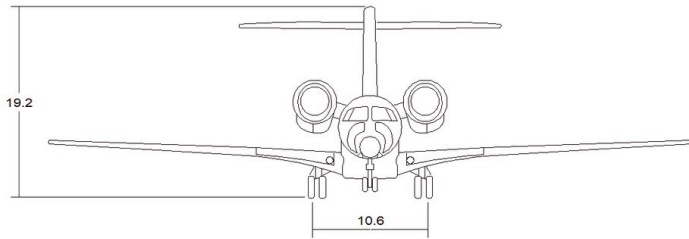
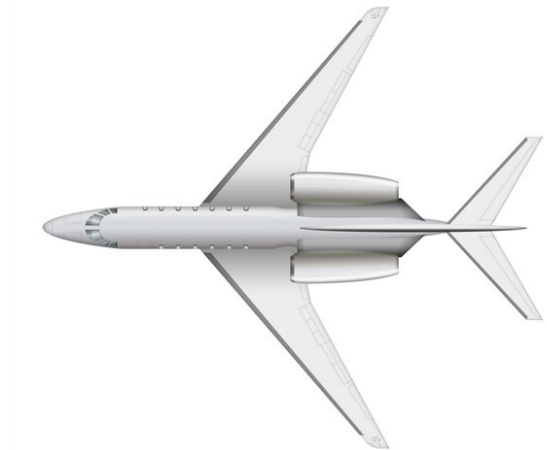
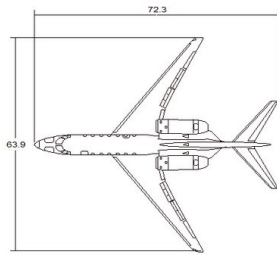
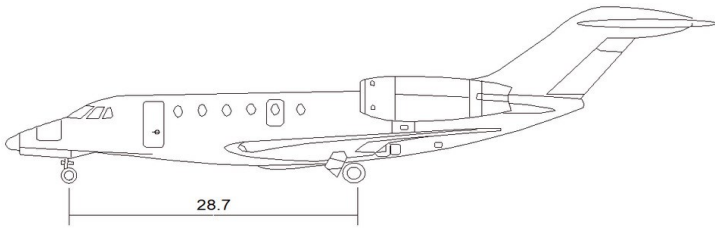
EXTERNAL
82 cu ft

DOOR
9.45 sq ft

WIDTH (DOOR)
2.1 ft

LENGTH (DOOR)
4.5 ft

6. Exterior



WINGSPAN

63.9 ft

FUSELAGE

72.3 ft

POWERPLANT

2 Rolls Royce AE 3007C1

THRUST

6,442 lb

THRUST REVERSER

Standard

7. Equipment

AVIONICS

Honeywell Primus Elite

COCKPIT VOICE RECORDER	Standard
FLIGHT DATA RECORDER	Optional
EICAS	Standard
GROUND WARNING SYSTEM	EPGWS
TRAFFIC WARNING SYSTEM	TCAS 2000
MAINT DIAG SYS	Standard
VHF 8KHZ SPACING	Standard

AUXILIARY POWER UNIT

Standard

MEETS STAGE 3 NOISE LEVELS	Yes
REGULATORY CERTIFICATION	1996
IFR CERTIFIED	Yes
PRODUCTION	1996 - 2012
SINGLE POINT REFUEL	Standard
EXTERNAL LAV. SERVICE	Standard