

Bombardier Global Express XRS



RANGE

6,055 nm



SPEED

511 kts



PASSENGERS

13 people



Cost

ACQUISITION COST

\$21,500,000

ANNUAL COST

\$3,211,621

VARIABLE COST

\$5,158/hr

FIXED COST

\$1,148,337

MAX PAYLOAD

4,800 lb

ENGINES

2 Rolls Royce BR 710-A2-20

TOTAL CABIN AREA

2,002 cu ft

AVIONICS

Honeywell Primus 2000XP

WINGSPAN

94 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)

171,600 nm

FUEL PRICE (JET A)

\$4.45/gal

ANNUAL UTILIZATION (HOURS)

400 hrs

LABOR COST

\$136/hr

AVERAGE SPEED (STANDARD TRIP)

429 kts

ACQUISITION COST

\$21,500,000

Bombardier Aerospace

Canadair, later acquired by Bombardier Aerospace, originated in 1911 as a subsidiary of the British shipbuilding company, Vickers, Sons and Maxim. They were initially known as Canadian Vickers and the company was established to contract with the Royal Canadian Navy to build large ships, including many that were used by the Canadian and British during World War I.

After World War I, Canadian Vickers began designing and manufacturing flying boats for the Royal Canadian Police to patrol the numerous lakes contained in Canada. The demand for these aircraft increased so rapidly, Vickers had to add an aircraft division to go with their shipbuilding division.

When the U.S. entered WWII, they contracted Canadian Vickers to design the amphibious aircraft known as the PBV-5. Because of the huge influx of contracts received to manufacture ships and the PBV-5s, Canadian Vickers informed the Canadian, British and American governments that it could not continue to manufacture ships and aircraft at the same time, and would stop manufacturing aircraft. All three governments could not lose the aircraft production, so a new company separate from Canadian Vickers was proposed. In October 1944, Canadair was formed.

In 1947, Canadair was purchased by the U.S. submarine manufacturer, Electric Boat Company. The two companies merged in 1952 and formed General Dynamics. During the 1950s, Canadair designed and manufactured the F-86 Sabre Jet, building close to 2,000 of these aircraft for the Canadian, British and American Air Forces during its 10-year production run.

In 1976, General Dynamics sold Canadair to the Canadian government following a slowdown in defense and military contracts. Canadair was eventually sold by the Canadian government to Bombardier in 1986. After acquiring Canadair, Bombardier acquired the Ireland-based Short Brothers aircraft manufacturing company in 1989. This was followed in 1990 by the acquisition of the Learjet Company and finally the de Havilland Aircraft Company in 1992.

Bombardier Global Express XRS

The Global Express is Bombardier's entry into the ultra-long-range jet category. Its cabin is 20 feet longer than its Challenger stablemate, providing a separate crew rest area and a roomier lavatory. Typical seating is for 14 and with all seats filled it has a maximum range of 6,250 nautical miles with NBAA IFR reserves.

The Global XRS was introduced in 2003 and has more range than the Global Express.

1. Cost

ACQUISITION COST

\$21,500,000

ANNUAL COST

\$3,211,621

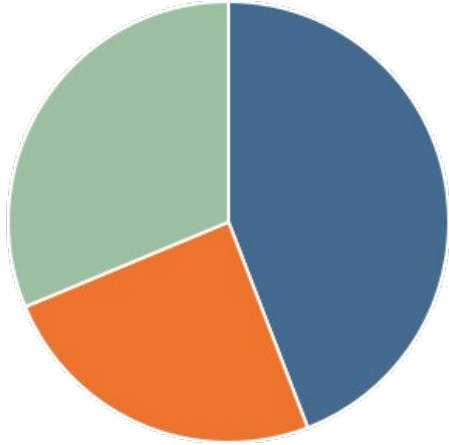
VARIABLE COST

\$5,158/hr

FIXED COST

\$1,148,337

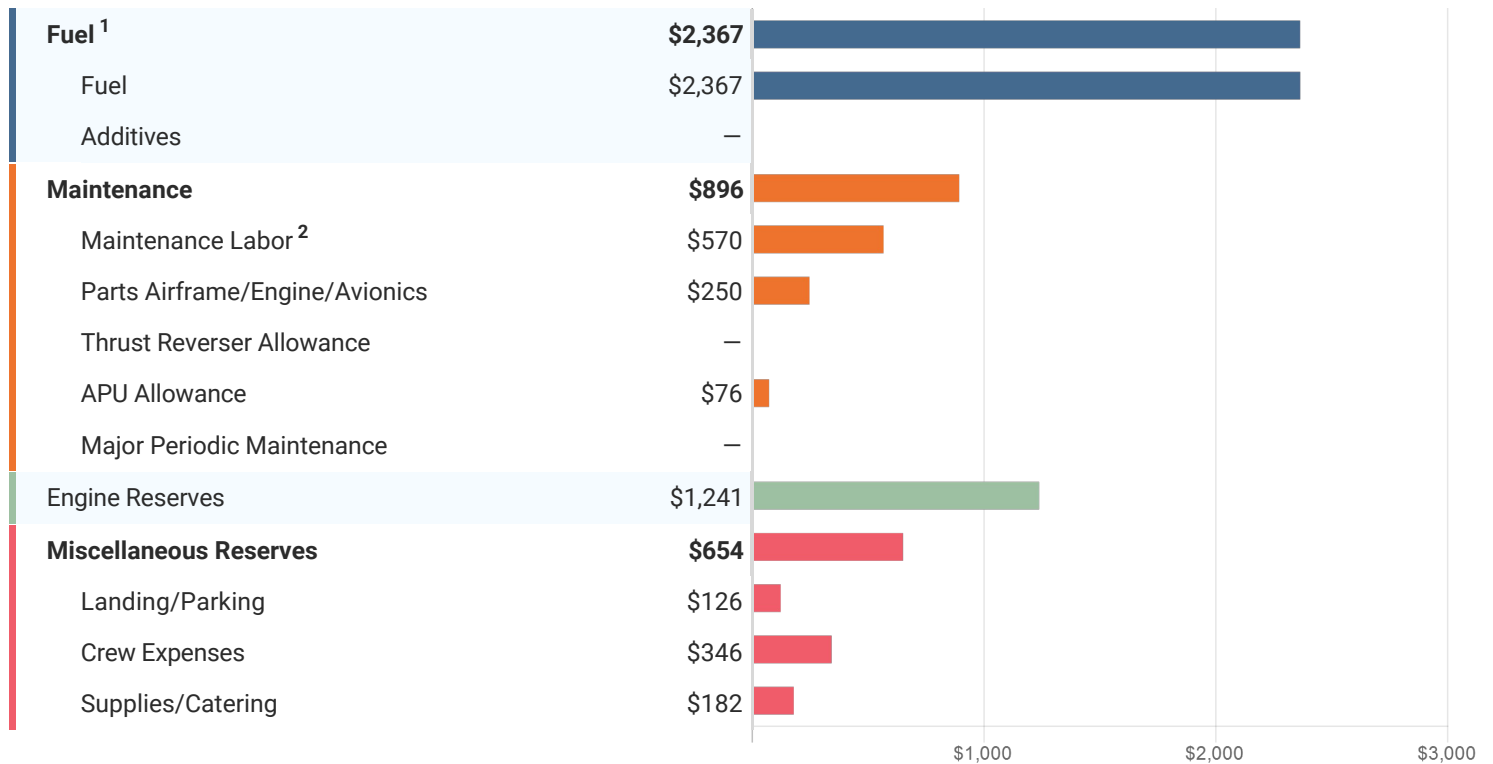
Total Annual Cost With Market Depreciation

**\$4,673,621**

- 44% - Variable Cost - \$2,063,284
- 25% - Fixed Cost - \$1,148,337
- 31% - Market Depreciation - \$1,462,000

Hourly Variable Cost

PER FLIGHT HOUR

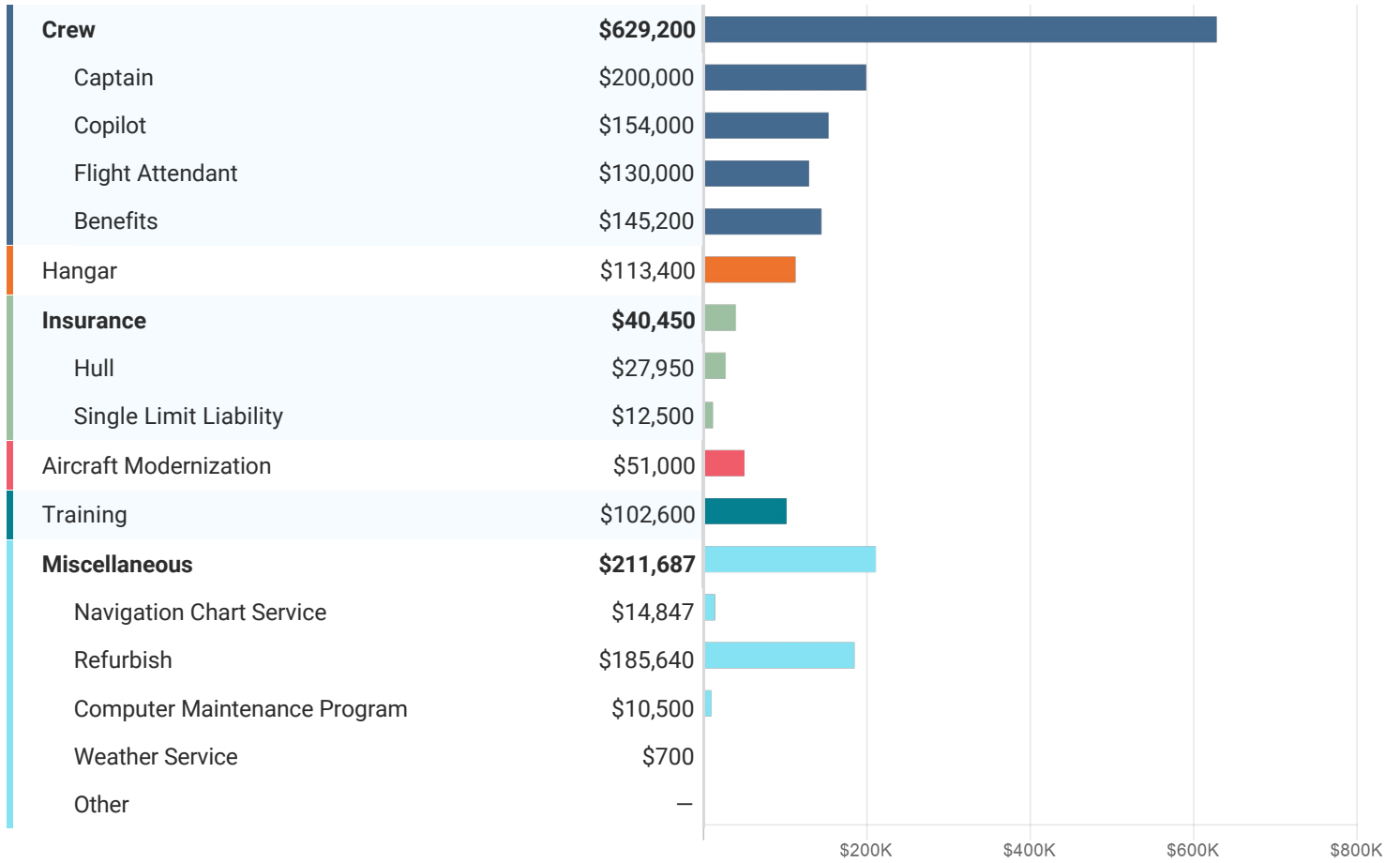
\$5,158/hr

1. Fuel is calculated using Fuel Cost x Fuel Burn + 15% - 532 gal/hr

2. Maintenance Labor Cost is calculated using the ratio of Maintenance Labor Hours per Flight Hour and the Labor Rate: 4.19 labor-hr/Fhr @ \$136/hr

Annual Fixed Cost

ANNUAL COST

\$1,148,337

2. Performance

NORMAL CRUISE

488 kts

LONG-RANGE CRUISE

471 kts

MAXIMUM CRUISE

511 kts

RATE OF CLIMB

3,300 ft/min

MAX CERT. ALTITUDE

51,000 ft

INITIAL CRUISE ALTITUDE

41,000 ft

TIME TO CRUISE ALTITUDE

26 min

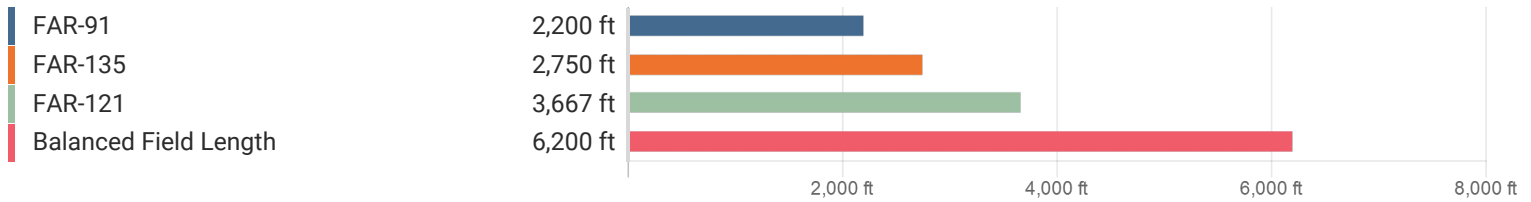
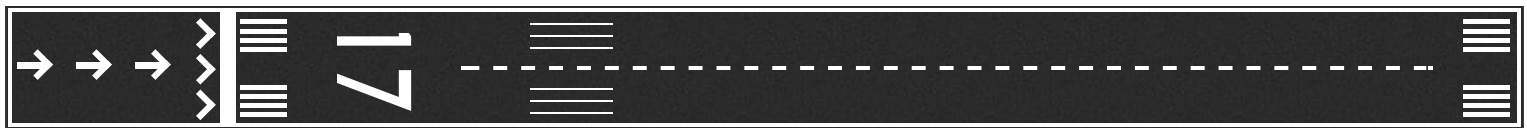
ENGINE OUT RATE OF CLIMB

474 ft/min

ENGINE OUT CEILING

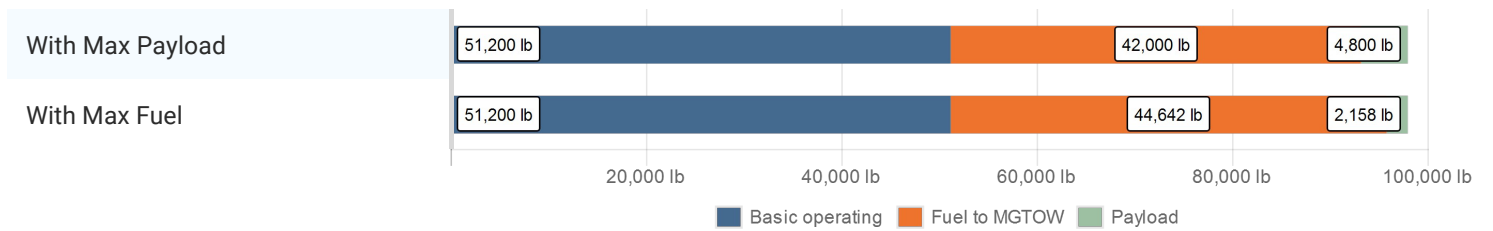
18,000 ft

Field Length



3. Weight/Payload

Weight Breakdown



With Max Payload

MAXIMUM PAYLOAD

4,800 lb

RANGE AT MAX PAYLOAD

6,013 nm

With Max Fuel

AVAILABLE PAYLOAD

2,408 lb

PASSENGER CAPACITY

12 people

RAMP	98,250 lb
MAX LANDING	78,600 lb
BASIC OPERATING	51,200 lb
USEFUL LOAD	47,050 lb

MAX TAKEOFF	98,000 lb
ZERO FUEL	56,000 lb
USABLE FUEL	44,642 lb

4. Range



Long-Range Cruise

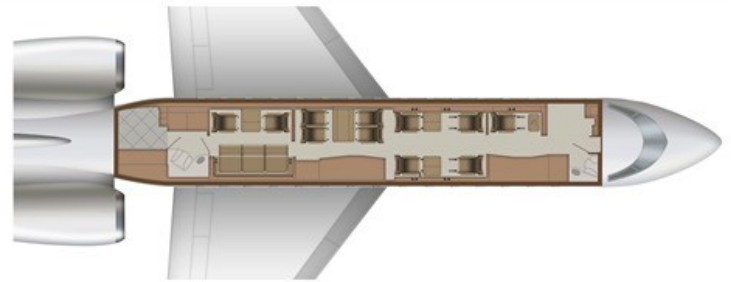
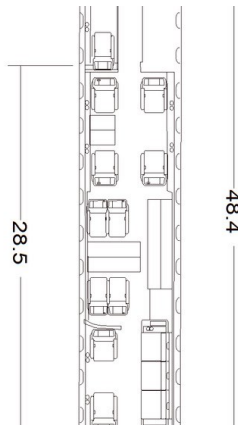
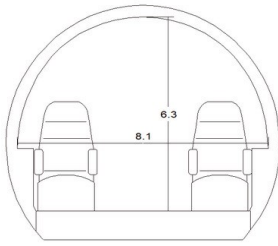
RANGE	AVERAGE SPEED
6,390 nm	470 kts
ENDURANCE	PASSENGERS
13.6 hrs	4 people

Maximum Cruise

RANGE	AVERAGE SPEED
4,976 nm	505 kts
ENDURANCE	PASSENGERS
9.85 hrs	4 people

SEATS FULL RANGE	6,055 nm
FERRY RANGE	6,226 nm

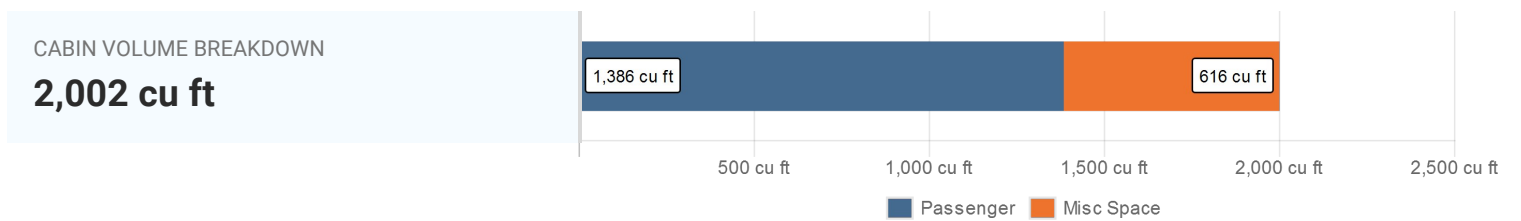
5. Interior



PASSENGERS
13 people

CREW
2 people

AREA PER PASSENGER
106.6 cu ft/person



TOTAL CABIN AREA
2,002 cu ft

PASSENGER AREA
1,386 cu ft

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

CABIN WIDTH
8.17 ft

CABIN LENGTH
48.35 ft

CABIN HEIGHT
6.25 ft

TOTAL BAGGAGE AREA
195 cu ft

INTERNAL
195 cu ft

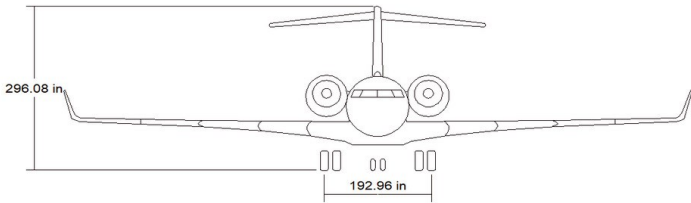
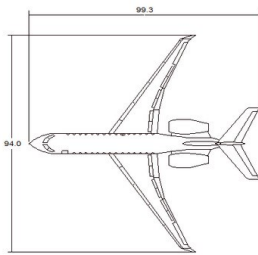
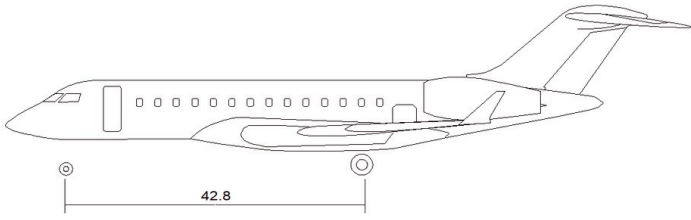
EXTERNAL
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DOOR
18.51 sq ft

WIDTH (DOOR)
3 ft

LENGTH (DOOR)
6.17 ft

6. Exterior



WINGSPAN

94 ft

FUSELAGE

99.3 ft

POWERPLANT

2 Rolls Royce BR 710-A2-20

THRUST

14,750 lb

THRUST REVERSER

Standard

7. Equipment

AVIONICS

Honeywell Primus 2000XP

COCKPIT VOICE RECORDER	Standard
FLIGHT DATA RECORDER	Standard
EICAS	Standard
GROUND WARNING SYSTEM	EGPWS
TRAFFIC WARNING SYSTEM	TCAS II
MAINT DIAG SYS	CAIMS
VHF 8KHZ SPACING	Standard

AUXILIARY POWER UNIT

Standard

MEETS STAGE 3 NOISE LEVELS	Yes
REGULATORY CERTIFICATION	2005
IFR CERTIFIED	Yes
PRODUCTION	2005 - 2012
SINGLE POINT REFUEL	Standard
EXTERNAL LAV. SERVICE	Standard