



## Learjet 75 vs. Phenom 300E

Prepared for Wayne Goshkarian



**BOMBARDIER LEARJET  
75**



**EMBRAER PHENOM 300E**

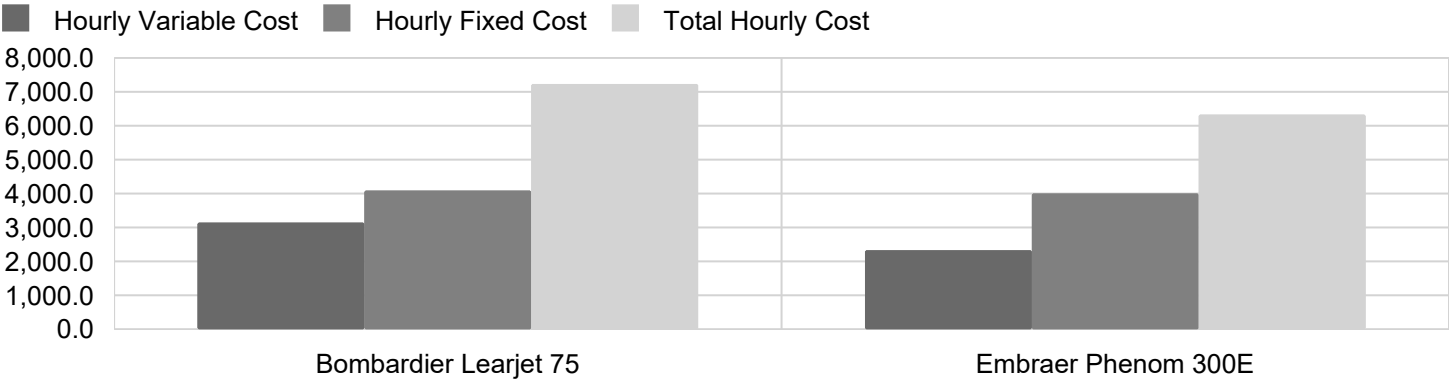
Based on \$5.00 per gallon and 150 hours per year annual utilization.

# BRIEF AIRCRAFT DETAILS, UTILIZATION LEVELS AND HOURLY VARIABLE COST



DETAILS	BOMBARDIER LEARJET 75	EMBRAER PHENOM 300E
TYPICAL PASSENGER CAPACITY	2/8	2/7
NORMAL CRUISE (KTS/MPH)	435/501	435/501
COST PER NM	\$ 7.23	\$ 5.35
SEATS FULL RANGE (NM/SM)	1,800/2,071	1,800/2,071
AVG.PRE-OWNED PRICE	\$ 7,123,870	\$ 12,223,500
ANNUAL UTILIZATION		
ANNUAL OWNER HRS	150	150
FUEL COST PER GALLON	\$ 5	\$ 5
TOTAL HRS	150	150
MILEAGE FOR OWNER HOURS (NM)	63,450	60,750
OWNER HOURLY COST ANALYSIS		
FUEL USAGE (GALLONS PER HOUR)	189	173
FUEL COST PER HRS	\$ 945	\$ 865
FUEL COST PER GALLON	\$ 5	\$ 5
AIRFRAME MAINTENANCE	\$ 915	\$ 437
ENGINE / APU MAINTENANCE	\$ 1,028	\$ 700
TOTAL MAINTENANCE	\$ 1,943	\$ 1,137
CREW MISC.	\$ 255	\$ 325
TOTAL VARIABLE COST PER HRS	\$ 3,143	\$ 2,327
TOTAL FIXED COST	\$ 4,088	\$ 4,000
TOTAL HOURLY COST	\$ 7,231	\$ 6,327

## HOURLY VARIABLE COST



# TOTAL ANNUAL VARIABLE COST(S)

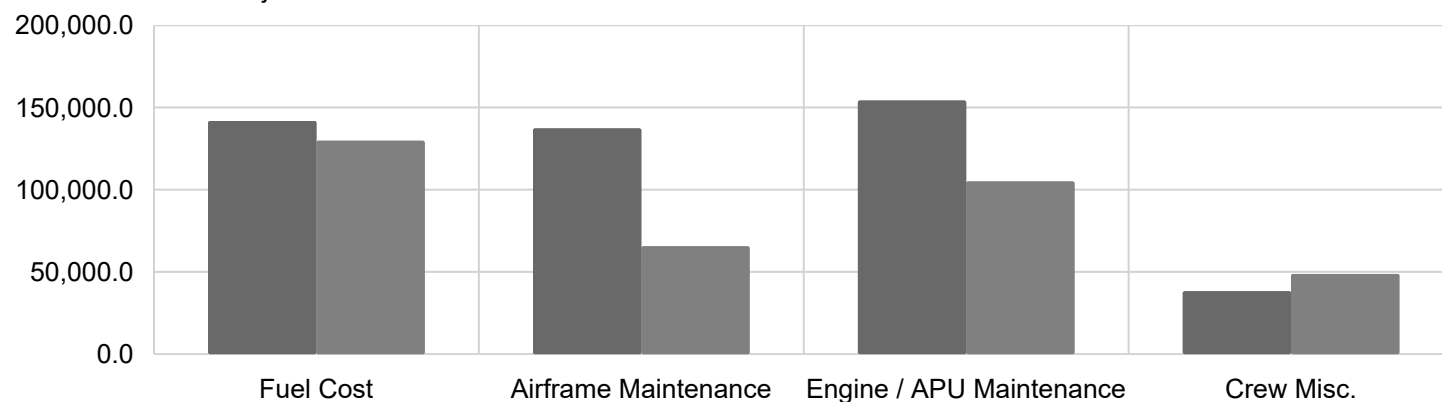
VARIABLES	BOMBARDIER LEARJET 75	EMBRAER PHENOM 300E
OWNER HOURS PER YEAR	150	150
TOTAL HOURS PER YEAR	150	150
FUEL COST PER GALLON	\$ 5.00	\$ 5.00
TOTAL FUEL GALLONS	28,350	25,950

## ANNUAL VARIABLE COSTS

FUEL COST	\$ 141,750	\$ 129,750
AIRFRAME MAINTENANCE	\$ 137,250	\$ 65,550
ENGINE AND APU MAINTENANCE	\$ 154,200	\$ 105,000
CREW MISC.	\$ 38,250	\$ 48,750
TOTAL ANNUAL VARIABLE COSTS	\$ 471,450	\$ 349,050

## Annual Variable Costs

■ Bombardier Learjet 75 ■ Embraer Phenom 300E

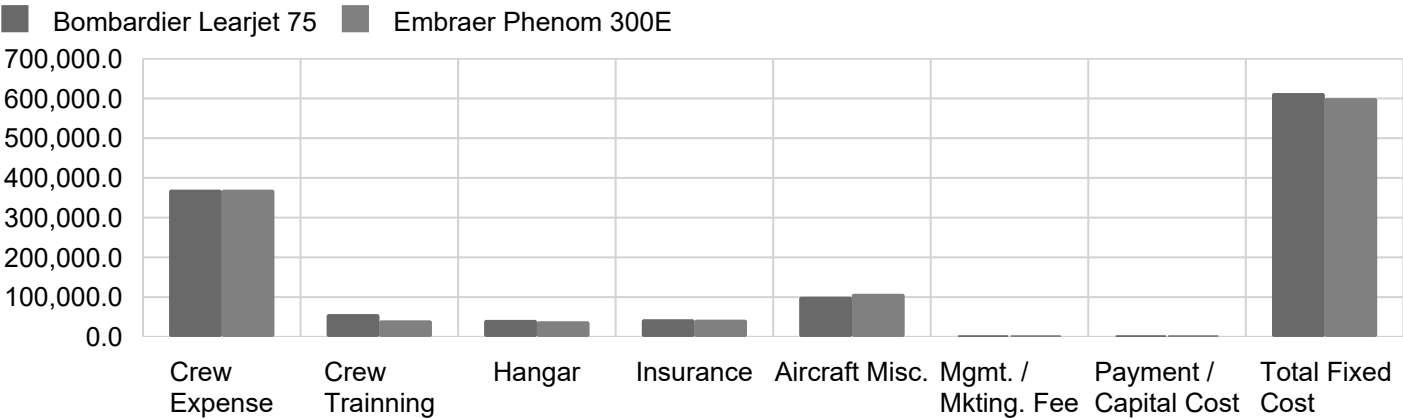


# TOTAL ANNUAL FIXED COST(S)



ANNUAL FIXED COSTS	BOMBARDIER LEARJET 75	EMBRAER PHENOM 300E
CAPTAIN SALARY	\$ 205,000	\$ 205,000
CO-PILOT SALARY	\$ 165,000	\$ 165,000
CREW TRAINING	\$ 56,700	\$ 40,800
HANGAR	\$ 42,400	\$ 38,500
INSURANCE	\$ 43,600	\$ 42,800
AIRCRAFT MISC.	\$ 100,500	\$ 108,000
TOTAL FIXED COST	\$ 613,200	\$ 600,100

Annual Fixed Costs

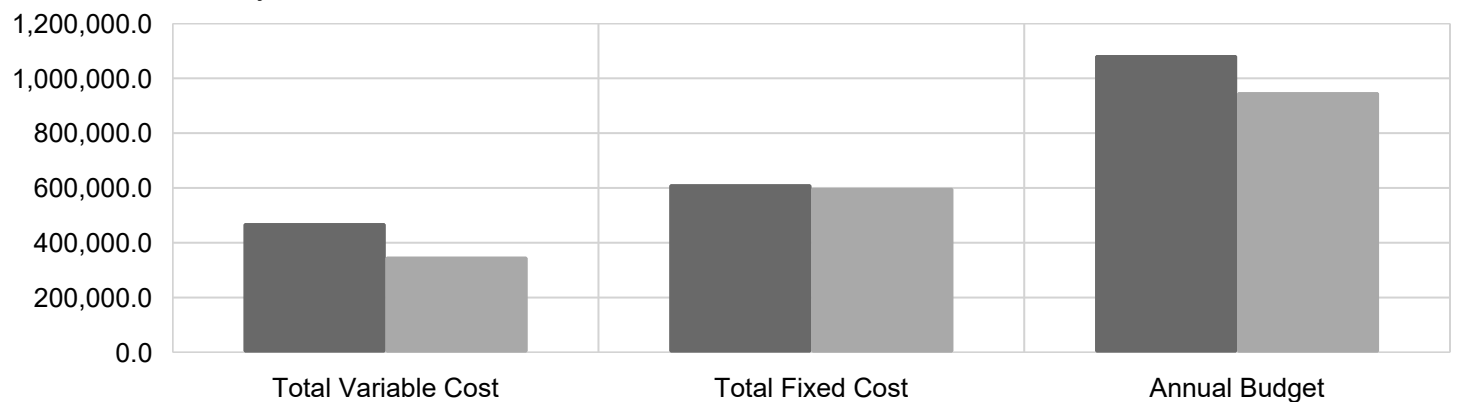


# ANNUAL OPERATIONAL COST

ANNUAL COST COMPARISON	BOMBARDIER LEARJET 75	EMBRAER PHENOM 300E
OWNER HOURS PER YEAR	150	150
TOTAL HOURS PER YEAR	150	150
FUEL COST PER GALLON	\$ 5	\$ 5
TOTAL FUEL GALLONS	28,350	25,950
<b>ANNUAL VARIABLE COSTS</b>		
FUEL COST	\$ 141,750	\$ 129,750
AIRFRAME MAINTENANCE	\$ 137,250	\$ 65,550
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AIRCRAFT MISCELLANEOUS	\$ 100,500	\$ 108,000
TOTAL FIXED COST	\$ 613,200	\$ 600,100
<b>ANNUAL BUDGET</b>		
ANNUAL BUDGET	\$ 1,084,650	\$ 949,150
<b>MONTHLY BUDGET</b>		
MONTHLY BUDGET	\$ 90,387	\$ 79,095
<b>HOURLY COST</b>		
TOTAL HOURLY COST	\$ 7,231	\$ 6,327

## Annual Operational Cost

■ Bombardier Learjet 75 ■ Embraer Phenom 300E



# SPECIFICATION SHEET



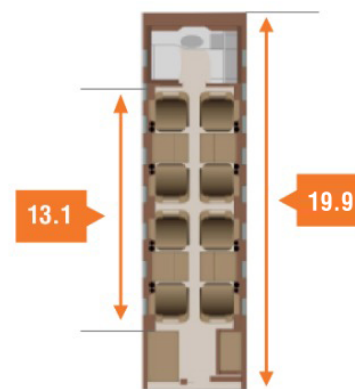
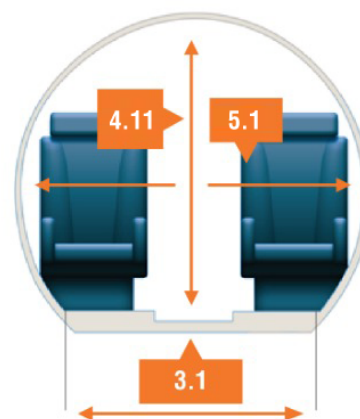
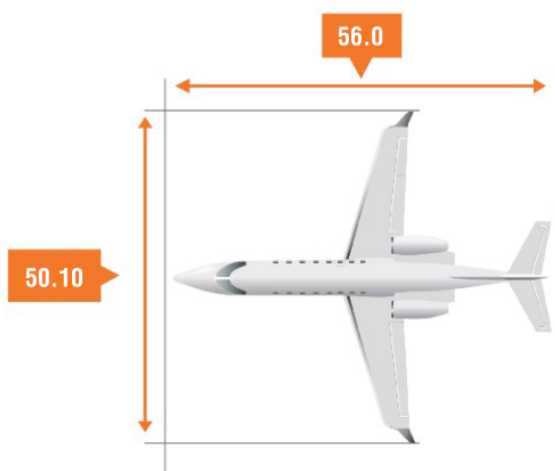
	BOMBARDIER LEARJET 75	EMBRAER PHENOM 300E
<b>BASIC VARIABLE COST DATA</b>		
AIRFRAME MAINTENANCE PER HOUR	\$ 915	\$ 437
ENGINE / APU MAINTENANCE PER HOUR	\$ 1,028	\$ 700
FUEL COST BASED ON GALLONS PER HOUR	\$ 945	\$ 865
OTHER VARIABLE COSTS	\$ 255	\$ 325
TOTAL VARIABLE COST PER HOUR	\$ 3,143	\$ 2,327
COST PER NM	\$ 7.23	\$ 5.35
<b>ADDITIONAL AIRCRAFT INFORMATION</b>		
BAGAGE CAPACITY EXT/INT FT^3	50 / 15	66 / 19
CABIN HEIGHT FEET	4'11"	4'11"
CABIN WIDTH FEET	5'1"	5'0"
CABIN LENGTH FEET	19'9"	17'2"
CABIN VOLUME FT^3	498	429
YEARS IN PRODUCTION	2013-2023	2017-Present
AVERAGE PRE-OWNED PRICE	\$ 7,123,870	\$ 12,223,500
AVIONICS	Garmin G5000	Garmin Prodigy
<b>BASIC AIRCRAFT PERFORMANCE DATA</b>		
SEATS FULL RANGE(NM / SM)	1,800 / 2,071	1,800 / 2,071
FERRY RANGE(NO PAYLOAD)(NM / SM)	2,000/2,302	2,000/2,302
BALANCE FIELD LENGTH * (TAKE - OFF DISTANCE IN FEET)	4,500	3,700
LANDING DISTANCE FEET	2,700	2,500
AVERAGE BLOCK SPEED (KTS / MPH)	423/487	405/466
NORMAL CRUISE (KTS/MPH)	435 / 501	435 / 501
LONG RANGE CRUISE SPEED (KTS / MPH)	430/495	395/455
MAXIMUM CRUISE SPEED (KTS / MPH)	465/535	460/529
FUEL USAGE (GPH)	189	173
SERVICE CEILING FEET	51,000	45,000
USEFUL PAYLOAD WITH FULL FUEL LBS	1,800	940
MAX RAMP WEIGHT LBS	21,750	18,497
MAXIMUM TAKE OFF WEIGHT LBS	21,500	18,387
MAXIMUM LANDING WEIGHT LBS	19,200	17,042
BASIC OPERATING WEIGHT LBS	13,790	11,780
TOTAL USABLE FUEL WEIGHT LBS	6,100	5,300
WINGSPAN FEET	50'10"	52'2"
FUSELAGE FEET	56'0"	51'3"
POWERPLANT MODEL	Honeywell Engines TFE 731-40BR-1B	Pratt & Whitney Canada PW535E
QUANTITY/THRUST (LBS)	2/3850	2/3360

Douglas Young

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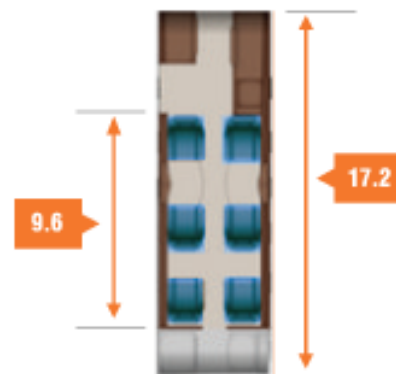
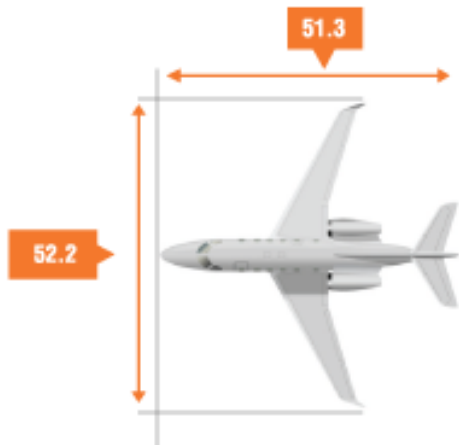
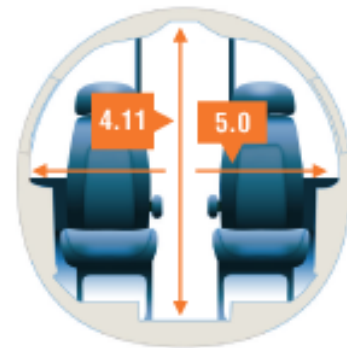
**BOMBARDIER LEARJET 75**

- ✓ Interior Floorplan
- ✓ Exterior
- ✓ Cross Section



## EMBRAER PHENOM 300E

- ✓ Interior Floorplan
- ✓ Exterior
- ✓ Cross Section





# DEPRECIATION ANALYSIS



## Bombardier Learjet 75

Full Price of Aircraft \$	7,123,870							
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Rate (%)	20.00	32.00	19.20	11.52	11.52	5.76	0.00	0.00
Depreciation \$	1,424,774	2,279,638	1,367,783	820,670	820,670	410,335	0	0
Depreciation Value \$	5,699,096	3,419,458	2,051,675	1,231,005	410,335	0	0	0
Cumulative Depreciation \$	1,424,774	3,704,412	5,072,195	5,892,865	6,713,535	7,123,870	7,123,870	7,123,870
Adjusted Cost Per Hrs \$	3,799	6,079	3,647	2,188	2,188	1,094	0	0
Total Adjusted Cost Per Hrs \$	3,432	1,152	3,584	5,043	5,043	6,137	7,231	7,231

## Embraer Phenom 300E

Full Price of Aircraft \$	12,223,500							
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Rate (%)	20.00	32.00	19.20	11.52	11.52	5.76	0.00	0.00
Depreciation \$	2,444,700	3,911,520	2,346,912	1,408,147	1,408,147	704,074	0	0
Depreciation Value \$	9,778,800	5,867,280	3,520,368	2,112,221	704,074	0	0	0
Cumulative Depreciation \$	2,444,700	6,356,220	8,703,132	10,111,279	11,519,426	12,223,500	12,223,500	12,223,500
Adjusted Cost Per Hrs \$	6,519	10,431	6,258	3,755	3,755	1,878	0	0
Total Adjusted Cost Per Hrs \$ (192)		(4,103)	69	2,573	2,573	4,450	6,328	6,328

Douglas Young

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RANGE MAP

Model	Category	Radius
<div></div> Bombardier Learjet 75	Light Jet	1800 Nm / 2071 Sm
<div></div> Embraer Phenom 300E	Midsized Jet	1800 Nm / 2071 Sm

