



How to Use the Operating Costs Guide

A **benchmarking tool** to help flight department managers draft and **analyze budgets** for the coming year

Aircraft operating costs are presented in a format that separates the data into seven separate areas: Mission Costs, Variable Costs, Fixed Annual Costs, Periodic Costs, Personnel Costs, Training Costs and Facilities Costs.

Aircraft Category

Aircraft are grouped into six categories reflecting similarity of aircraft size, mission and operations. Category 1 aircraft are turboprops weighing less than 12,500 lb. and very light jets less than 10,000 lb.; Category 2 are multiengine turboprops 12,500 lb. or more and light jets 10,000 to 19,999 lb.; Category 3 aircraft are jets 20,000 to 29,999 lb.; Category 4 are jets weighing 30,000 to 40,999 lb.; Category 5 are jets 41,000 lb. and up; and Category 6 are ultra-long-range jets with NBAA IFR range above 6,000 nm. Certain data

are common to all aircraft in a category, including Miscellaneous Trip Expense, Miscellaneous Services, the Modernization/Modification/Upgrade allowance, annual Hangar/Office Lease Expense and Miscellaneous Office Expense.

BCA Equipped Price

This number is taken from the May 2016 *Purchase Planning Handbook* and reflects BCA-equipped, completed aircraft. Aircraft Bluebook prices are used for out-of-production aircraft and reflect average prices for a mid-time aircraft. The listed price is based on the latest model produced, with the price year in parentheses.

Mission Costs

Mission Costs are computed based on the business aircraft missions shown

in the May *Handbook*. Three missions are shown for each aircraft: 300 nm, 600 nm and 1,000 nm. Ultra-long-range aircraft (Category 6) missions are 1,000 nm, 3,000 nm and 6,000 nm. The fuel expense shown for each mission is based on the fuel burn figure for that mission, computed under conditions shown in the May *Handbook*. Missions are calculated utilizing a manufacturer recommended cruise setting; therefore, cruise settings may vary from aircraft to aircraft, i.e. max cruise versus long range. Where the aircraft cannot cover the mission distance with an 800-lb. (four-passenger) payload, BCA shows a reduction in payload or a reduction in mission length at the editor's option.

Direct Cost: Direct Cost adds the fuel expense for the mission to a bundling of maintenance labor, parts and miscellaneous costs from the Variable Costs



OUT-OF-PRODUCTION AIRCRAFT TABLES
can be found in the digital edition of
BCA or go to
bcadigital.com for a free download of the
2016 Operations Planning Guide

Research Group/U.S., and breaks utilization down by Category, Annual Flight Hours and Average Stage Length.

Fuel Expense: The hourly fuel expense shown is based on average hourly fuel consumption for an aircraft and the nationwide average price of \$4.90 per gallon for Jet-A at press time. The hourly fuel expense is figured utilizing the fuel consumption numbers for the aircraft missions that were computed for the May *Handbook*. Category 1 aircraft utilize the 300-nm fuel consumption figure to compute the average hourly fuel expense. Categories 2, 3 and 4 aircraft utilize the 600-nm fuel consumption figure to compute the average hourly fuel expense. Categories 5 and 6 aircraft utilize the 1,000-nm fuel consumption figure to compute the average hourly fuel expense. The fuel consumption figure accounts for taxi, takeoff, climb, cruise, descent and landing for a 300-, 600- or 1,000-nm mission as appropriate for the aircraft category. (Note: Longer missions will lower average hourly fuel burns due to more time in cruise; conversely, shorter missions will increase average hourly fuel burn figures since proportionally more time is spent in the takeoff and climb phase rather than cruise.)

Maintenance Hours/Flight Hour (in-production aircraft): A manufacturer-supplied ratio of maintenance hours per flight hour. The number reflects an average for the first five years of operation while under warranty (scheduled maintenance and consumable items), and unscheduled maintenance for any period not covered under warranty. Engine restoration and APU restoration (where applicable) are not included in this ratio.

Service Center Maintenance Expense (in-production aircraft): This hourly expense is computed by multiplying the Maintenance Hours/Flight Hour ratio by the nationwide average service center hourly maintenance labor cost (Category 1: \$95/hr.; Category 2: \$100/hr.; Category 3: @100/hr.; Category 4: \$105/hr.; Category 5: \$110/hr.; Category 6: \$110/hr.).

Maintenance Labor Expense (out-of-production aircraft): This hourly figure is perhaps the single most difficult number to derive, and there is significant room for variability from one operation to another. The figure shown for an aircraft is derived from actual reported operator experience compiled by Aviation Research Group/U.S. and includes both external maintenance

charges and a flight department's internal maintenance capability. It reflects both scheduled and unscheduled maintenance activity.

Some operators who have no inside maintenance capability may report lower maintenance labor expenses than the hourly average shown. Others who choose to rely on an inside maintenance capability for reasons of control and availability might report significantly higher maintenance labor numbers than those shown in the charts. Maintenance labor figures shown for an aircraft model reflect an average hourly cost over five years.

Engine restoration and APU restoration (where applicable) are not included in this cost.

Parts Expense (in-production aircraft): This hourly expense is derived from model-specific manufacturer quotes and includes parts expenses for the airframe, engines, avionics and consumables (oil, hydraulic fluid, etc.). Production aircraft parts expense is an average expense with warranty of the first five years of operation and includes scheduled, unscheduled and consumable items. Engine restoration parts expense and APU restoration parts expense (where applicable) are not included in this cost.

Parts Expense (out-of-production aircraft): This hourly expense is derived from model-specific operator data compiled by Aviation Research Group/U.S. and includes parts expenses for the airframe, engines, avionics and consumables (oil, hydraulic fluid, etc.). Production aircraft parts expense is an average expense with warranty of the first five years of operation and includes scheduled, unscheduled and consumable items. Engine restoration parts expense and APU restoration parts expense (where applicable) are not included in this cost.

Miscellaneous Trip Expense: This average hourly expense will be the same for all aircraft of a particular category, reflecting similar aircraft capabilities and utilization. Miscellaneous Trip Expense includes landing fees, catering, cabin supplies, handling fees and crew travel expenses.

Fixed Costs (Annual)

This area of expense includes those costs that must be borne by a flight department irrespective of the level of aircraft utilization. Included are Hull and Liability Insurance, Maintenance Software

section of this *Guide*, apportioned according to the actual flight time for the listed mission.

Per-Mile Cost: Per-Mile Cost divides the Direct Cost by the mission distance.

Variable Costs (Hourly)

These are expenses that are directly related to operation of the aircraft and are reported as an hourly cost figure. Included are Fuel Expense, Maintenance Labor Expense, Parts Expense and Miscellaneous Trip Expense. The basis for the figure reported is actual operator experience compiled by Aviation Research Group/U.S. if the aircraft is out-of-production. In the instance of an in-production aircraft with warranty remaining, the figure is based on manufacturer estimates with warranty effect included unless noted otherwise.

Variable Costs are hourly figures and are based on average utilizations and stage lengths, which are determined for each category of aircraft.

The resulting Aircraft Utilization table, included as part of the *Operations Planning Guide*, is derived from operator experience, tracked by Aviation

Programs and Miscellaneous Services. Insurance estimates are based on the aircraft flown by professional, simulator-trained flight crews.

Hull Insurance: This figure is derived from quotes of leading aviation insurers. The first number reported is the estimated annual cost of hull insurance for a particular aircraft based on its BCA-equipped price as reported in the May 2016 *Purchase Planning Handbook* (*Aircraft Bluebook* if out-of-production). The cost is computed by multiplying a cost per \$100 of hull insurance factor by the equipped aircraft price. The figure includes war risk coverage, which constitutes on average \$0.03 to \$0.05 per \$100 of hull insurance.

Hull Insurance per \$100: This is the factor used as a multiplier to arrive at the total annual cost of hull insurance for a particular aircraft. It is derived from actual aviation insurers' quotes. Insurance quotes can vary greatly depending upon if the aircraft is covered under a fleet policy or a standalone policy.

Liability Insurance: This figure represents the total annual cost for liability insurance for an aircraft model. Aircraft in Category 1 are assumed to carry \$25 million in liability insurance; Category 2 aircraft carry \$100 million; and Categories 3 through 6 carry \$200 million in liability insurance coverage. The annual cost is computed by multiplying the amount of liability coverage in millions by a per \$M factor supplied to Aviation Research Group/U.S. by leading providers of this type

of insurance coverage.

Liability Insurance per \$M: This is the factor used as a multiplier to arrive at the total annual cost of liability insurance. It is derived from actual aviation insurers' quotes for a particular aircraft model.

Maintenance Software Programs: The figure shown represents the average annual cost for a software program to track maintenance activities, intervals and expenses. This number represents an average cost as reported by various providers of maintenance software.

Miscellaneous Services: This figure represents an annual cost for items such as memberships, charts and approach plates, and weather services. It does not include the per-trip weather and handling fees that are included in Variable Costs-Miscellaneous Trip Expenses. The annual Miscellaneous Services Expense figures are derived from operator experience and will be the same for all aircraft in a category.

Periodic Costs

This area of expense reflects the current average costs for engine Hot-Section Inspection, Engine Overhaul, Airframe Stripping/Repainting, Interior Refurbishment and a Modernization/Modification/Upgrade allowance. The figures shown represent an average cost for the service provided, as the need arises, and are based on both shop quotes and operator experience.

Mid-Life/Hot-Section Inspection (in-production aircraft): The figure shown

Category	Annual Flight Hours	Average Stage Length (nm)
1	132	255
2	157	404
3	214	491
4	288	626
5	224	701
6	221	1,078

is based on engine OEM quotes unless noted otherwise and assumes a "routine" inspection. The mid-life/hot-section inspection is figured to be accomplished at the midpoint of the TBO interval. If the engine requires an MPI, the inspection is performed at the OEM-designated MPI interval.

Mid-Life/Hot-Section Inspection (out-of-production aircraft): The figure shown is based on shop quotes and operator experience and assumes a "routine" inspection. The mid-life/hot-section inspection is figured to be accomplished at the midpoint of the TBO interval. If the engine requires an MPI, the inspection is performed at the OEM-designated MPI interval.

Engine Overhaul (in-production aircraft): This figure is based on engine OEM quotes unless noted otherwise and also assumes a "routine" overhaul. The engine overhaul will normally be accomplished by the TBO or CZI interval.

Engine Overhaul (out-of-production aircraft): This figure is based on shop quotes and operator experience and also assumes a "routine" overhaul. The engine overhaul will normally be accomplished by the TBO or CZI interval.

Overhaul Interval: The number shown represents the TBO and is in hours of operation per engine. A "t" indicates a TBO while a "c" indicates a compressor zone inspection, as appropriate for the particular engine. If an engine can be maintained in an "on condition" basis without hard-time overhaul requirements, an "OC" will appear in the space for Overhaul Interval.

Paint: This is an average cost figure for an aircraft model and is based on quotes from paint shops for a two-color paint scheme that includes stripping the old paint and basic surface preparation. Any requirement for additional surface preparation or a highly customized paint scheme would require the paint cost to be adjusted higher.

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Interior Refurbishment:

Again, this is an average cost and is based on interior shop quotes for a basic replacement of soft goods like carpet and upholstery, and headliners, etc. Any customization in interior work, to include new seating, cabinetry and cabin electronics, can drive this cost up significantly and are not included in the basic interior refurbishment cost shown here.

Modernization/Modification/

Upgrade: The cost shown for this item is derived from operator experience compiled by Aviation Research Group/U.S.

It is an average expense and is the same for all aircraft in a category. The figure includes aircraft modernization and airframe, engine and avionics modifications or upgrades. Again, upgrade or installation of any of the wide spectrum of cabin electronics now available or new requirements such as 8.33 kHz spacing and RVSM compliance will significantly increase this number.

Personnel Costs

Personnel costs represent captain and first officer salaries not including benefits. The figures are based on a nationwide average of quotes taken from aircraft operators.

Training

Aircraft-specific training expenses are shown per-pilot and maintenance technician. The figures are average costs based on quotes from aircraft training suppliers.

Pilot Initial: This is a per-pilot estimate for initial aircraft-specific training cost. It includes a type rating where appropriate and crew resource management training.

Maintenance Initial: This estimated cost is per-technician and includes initial maintenance training on an aircraft model.

Facilities

The two areas of expenses shown here are based on national average annual costs reported by flight departments compiled and analyzed by Aviation Research Group/U.S. The figures shown in each cost area are broken down by

Maintenance Costs Breakdown

Aircraft Type		Category
Single-Engine Turboprop		
Multiengine Turboprop <12,500 lb.	\$95/hr	1
Jets <10,000 lb.		
Multiengine Turboprop >12,500 lb.	\$95/hr.	2
Jets > 10,000 lb.		
20,000 lb. to 30,000 lb.	\$100/hr.	3
30,000 lb. to 41,000 lb.	\$105/hr.	4
41,000 lb. and up	\$110/hr.	5
Ultra-Long Range, Heavy Jets	\$110/hr.	6
w/NBAA IFR Range >6,000 nm		

the six aircraft categories and will be the same for all aircraft of a particular category.

Hangar/Office Lease: This figure is an annual cost per aircraft and includes hangar and office rent as well as additional facilities costs such as utilities, ground upkeep, snow removal, janitorial service and insurance (other than

aircraft insurance).

For more than one aircraft, it is valid to multiply the figure by the number of aircraft to arrive at a total flight department cost. Actual rental costs will vary widely from area to area. It is an average expense and is the same for all aircraft in a category.

Miscellaneous Office Expense: This figure is reported by operators by category and includes office supplies, postage, basic legal and professional fees, data processing, etc. It is an average expense and is the same for all aircraft

in a category.

General

Abbreviations are used throughout the tables: "NA" means not available; "—" indicates the performance is not applicable; "NP" signifies that the specific performance is not possible. **BCA**

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Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General						
		Mahindra Aerospace	Textron Aviation	Piper Aircraft	Quest Aircraft	Textron Aviation
	Model	Airvan 10	Cessna Caravan	M500	Kodiak	Grand Caravan EX
	Category (1-6)	1	1	1	1	1
BCA Equipped Price		\$999,500	\$1,950,000	\$1,998,900	\$2,454,725	\$2,527,900

Mission Costs	300 nm	Flight Time	1+40	1+40	1+22	1+47	1+41
		Direct Cost	NA	\$725.84	NA	\$685.57	\$801.00
		Fuel Expense	\$473.91	\$473.91	\$277.18	\$429.30	\$548.51
		Per-Mile Cost	NA	\$2.42	NA	\$2.29	\$2.67
	600 nm	Flight Time	3+17	3+17	2+32	3+30	3+19
		Direct Cost	NA	\$1,417.79	NA	\$1,438.16	\$1,566.71
		Fuel Expense	\$921.49	\$921.49	\$483.42	\$833.73	\$1,069.22
		Per-Mile Cost	NA	\$2.36	NA	\$2.40	\$2.61
	1,000 nm	Flight Time	NP	NP	4+34	5+47	NP
		Direct Cost	NP	NP	NA	\$2,346.01	NP
		Fuel Expense	NP	NP	\$672.84	\$1,373.46	NP
		Per-Mile Cost	NP	NP	NA	\$2.35	NP

Variable Costs (Hourly)	Fuel Expense	\$284.35	\$284.35	\$202.81	\$240.73	\$325.85
	Maintenance Hours/Flight Hour	NA	0.43	NA	0.30	0.43
	Service Center Maintenance Labor Expense	NA	\$40.85	NA	\$28.50	\$40.85
	Scheduled Parts Expense	NA	\$30.10	NA	\$35.00	\$28.94
	Miscellaneous Trip Expense	\$80.21	\$80.21	\$80.21	\$80.21	\$80.21
	Total Variable	NA	\$435.50	NA	\$384.43	\$475.84

Fixed Costs (Annual)	Hull Insurance	NA	\$11,970	\$12,393	\$12,349	\$15,750
	Liability Insurance	NA	\$5,500	\$5,500	\$5,500	\$4,625
	Hull Insurance per \$100	NA	\$0.63	\$0.62	\$0.63	\$0.70
	Liability Insurance per \$M	NA	\$220	\$220	\$220	\$185
	Maintenance Software Programs	NA	\$1,523	NA	NA	NA
	Miscellaneous Services	\$3,066	\$3,066	\$3,066	\$3,066	\$3,066

Periodic Costs	Mid-Life/Hot-Section Inspection	NA	\$31,200	NA	\$20,000	\$31,200
	Engine Overhaul	NA	\$225,000	\$200,000	\$235,000	\$250,000
	Overhaul Interval	3,500t	3,600t	3,600t	4,000t	3,600t
	Paint	NA	\$32,226	NA	\$29,233	\$34,287
	Interior Refurbishment	NA	\$56,187	NA	\$45,509	\$103,331
	Modernization/Modification/Upgrade	\$23,248	\$23,248	NA	\$23,248	\$23,248

Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,511	\$40,511	\$40,511	\$40,511	\$40,511

Training	Pilot Initial (per pilot)	NA	\$6,972	\$5,507	\$9,498	\$6,972
	Maintenance Initial	NA	\$5,292	\$2,581	\$4,130	\$5,292

Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,507	\$2,507	\$2,507	\$2,507	\$2,507

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Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General						
		Piper Aircraft	Epic Aircraft	Socata	Socata	Pilatus
	Model	M600	Epic	TBM 900	TBM 930	PC-12 NG
	Category (1-6)	1	1	1	1	1
	BCA Equipped Price	\$2,853,000	\$2,995,000	\$3,889,626	\$4,099,277	\$4,888,275

Mission Costs	300 nm	Flight Time	1+22	1+00	1+00	1+00	1+10
		Direct Cost	NA	NA	\$493.25	\$493.25	\$654.82
		Fuel Expense	\$277.18	\$321.79	\$321.79	\$321.79	\$401.51
		Per-Mile Cost	NA	NA	\$1.64	\$1.64	\$2.18
	600 nm	Flight Time	2+32	1+55	1+55	1+55	2+16
		Direct Cost	NA	NA	\$960.02	\$960.02	\$1,205.21
		Fuel Expense	\$483.42	\$607.01	\$607.01	\$607.01	\$713.06
		Per-Mile Cost	NA	NA	\$1.60	\$1.60	\$2.01
	1,000 nm	Flight Time	4+34	3+10	3+10	3+10	3+46
		Direct Cost	NA	NA	\$1,508.31	\$1,508.31	\$1,929.47
		Fuel Expense	\$672.84	\$965.37	\$965.37	\$965.37	\$1,111.64
		Per-Mile Cost	NA	NA	\$1.51	\$1.51	\$1.93

Variable Costs (Hourly)	Fuel Expense	\$202.81	\$321.79	\$321.79	\$321.79	\$344.15
	Maintenance Hours/Flight Hour	NA	NA	0.75	0.75	0.68
	Service Center Maintenance Labor Expense	NA	NA	\$71.25	\$71.25	\$64.60
	Scheduled Parts Expense	NA	NA	\$20.00	\$20.00	\$72.32
	Miscellaneous Trip Expense	\$80.21	\$80.21	\$80.21	\$80.21	\$80.21
	Total Variable	NA	NA	\$493.25	\$493.25	\$561.27

Fixed Costs (Annual)	Hull Insurance	NA	NA	\$27,227	\$28,695	\$30,307
	Liability Insurance	NA	NA	\$5,500	\$5,500	\$5,500
	Hull Insurance per \$100	NA	NA	\$0.70	\$0.70	\$0.62
	Liability Insurance per \$M	NA	NA	\$220	\$220	\$220
	Maintenance Software Programs	NA	NA	NA	NA	\$2,581
	Miscellaneous Services	\$3,066	\$3,066	\$3,066	\$3,066	\$3,066

Periodic Costs	Mid-Life/Hot-Section Inspection	NA	NA	\$20,000	\$20,000	\$17,757
	Engine Overhaul	\$200,000	NA	\$300,000	\$300,000	\$394,091
	Overhaul Interval	3,600t	3,500t	3,500t	3,500t	3,500t
	Paint	NA	NA	NA	NA	\$32,899
	Interior Refurbishment	NA	NA	NA	NA	\$64,614
	Modernization/Modification/Upgrade	NA	NA	\$23,248	\$23,248	\$23,248

Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,511	\$40,511	\$40,511	\$40,511	\$40,511

Training	Pilot Initial (per pilot)	\$5,507	NA	NA	NA	\$12,054
	Maintenance Initial	\$2,581	NA	NA	NA	\$4,646

Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,507	\$2,507	\$2,507	\$2,507	\$2,507

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Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General						
		Vulcanair SpA	Nextant Aerospace	Evektor	Textron Aviation	Textron Aviation
	Model	Viator	G90XT	Outback	King Air C90GTx	King Air 250
	Category (1-6)	1	1	1	1	1
	BCA Equipped Price	\$2,485,900	\$2,750,000	\$3,000,000	\$3,595,000	\$5,995,000

Mission Costs	300 nm	Flight Time	1+35	1+06	1+26	1+13	1+03
		Direct Cost	\$601.79	NA	NA	\$864.44	\$910.52
		Fuel Expense	\$306.43	\$427.10	\$689.66	\$547.04	\$635.54
		Per-Mile Cost	\$2.01	NA	NA	\$2.88	\$3.04
	600 nm	Flight Time	3+18	2+12	2+22	2+22	2+03
		Direct Cost	\$1,248.93	NA	NA	\$1,606.90	\$1,629.50
		Fuel Expense	\$633.34	\$849.82	\$1,296.67	\$989.51	\$1,092.63
		Per-Mile Cost	\$2.08	NA	NA	\$2.68	\$2.72
	1,000 nm	Flight Time	NP	3+39	4+36	3+57	3+28
		Direct Cost	NP	NA	NA	\$2,485.81	\$2,478.07
		Fuel Expense	NP	\$1,417.34	\$2,107.00	\$1,455.37	\$1,570.19
		Per-Mile Cost	NP	NA	NA	\$2.49	\$2.48

Variable Costs (Hourly)	Fuel Expense	\$193.54	\$388.28	\$481.16	\$449.63	\$605.27
	Maintenance Hours/Flight Hour	0.99	NA	NA	0.97	0.97
	Service Center Maintenance Labor Expense	\$94.05	NA	NA	\$92.15	\$92.15
	Scheduled Parts Expense	\$12.29	NA	NA	\$88.52	\$89.53
	Miscellaneous Trip Expense	\$80.21	\$80.21	\$80.21	\$80.21	\$80.21
	Total Variable	\$380.08	NA	NA	\$710.50	\$867.16

Fixed Costs (Annual)	Hull Insurance	\$15,661	NA	\$18,900	\$5,752	\$23,980
	Liability Insurance	\$5,500	NA	\$5,500	\$3,875	\$3,875
	Hull Insurance per \$100	\$0.63	NA	\$0.63	\$0.16	\$0.40
	Liability Insurance per \$M	\$220	NA	\$220	\$155	\$155
	Maintenance Software Programs	NA	NA	NA	\$5,781	\$5,781
	Miscellaneous Services	\$3,066	\$3,066	\$3,066	\$3,066	\$3,066

Periodic Costs	Mid-Life/Hot-Section Inspection	\$11,356	NA	\$41,175	\$40,000	\$50,000
	Engine Overhaul	\$216,799	NA	\$233,998	\$275,000	\$350,000
	Overhaul Interval	3,500t	4,000t	3,600t	3,600t	3,600t
	Paint	\$29,531	\$30,700	\$33,100	\$36,043	\$42,052
	Interior Refurbishment	\$46,411	\$71,964	\$63,580	\$89,000	\$105,631
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248

Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,511	\$40,511	\$40,511	\$40,511	\$40,511

Training	Pilot Initial (per pilot)	\$7,611	\$8,500	\$7,743	\$8,672	\$12,716
	Maintenance Initial	\$4,134	\$5,500	\$4,130	\$8,001	\$6,091

Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,507	\$2,508 Estimated costs	\$2,507	\$2,507	\$2,507

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Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Piaggio Aero Industries		Cirrus Design	Eclipse Aerospace	Textron Aviation
	Model	Avanti Evo	Vision	Eclipse 550	Citation Mustang
	Category (1-6)	1	1	1	1
	BCA Equipped Price	\$7,395,000	\$1,960,000	\$2,995,000	\$3,350,000

Mission Costs	300 nm	Flight Time	0+53	1+10	0+58	1+00
		Direct Cost	\$931.13	NA	NA	\$636.31
		Fuel Expense	\$503.16	\$415.40	\$333.49	\$490.00
		Per-Mile Cost	\$3.10	NA	NA	\$2.12
	600 nm	Flight Time	1+44	2+15	1+46	1+56
		Direct Cost	\$1,676.43	NA	NA	\$1,112.93
		Fuel Expense	\$836.66	\$755.48	\$612.13	\$830.07
		Per-Mile Cost	\$2.79	NA	NA	\$1.85
	1,000 nm	Flight Time	3+02	3+36	3+04	3+19
		Direct Cost	\$2,641.95	NA	NA	\$1,768.02
		Fuel Expense	\$1,172.34	\$1,200.87	\$831.54	\$1,282.78
		Per-Mile Cost	\$2.64	NA	NA	\$1.77

Variable Costs (Hourly)	Fuel Expense	\$569.62	\$356.06	\$344.99	\$490.00
	Maintenance Hours/Flight Hour	1.80	NA	NA	0.30
	Service Center Maintenance Labor Expense	\$171.00	NA	NA	\$28.50
	Scheduled Parts Expense	\$233.28	NA	NA	\$37.60
	Miscellaneous Trip Expense	\$80.21	\$80.21	\$80.21	\$80.21
	Total Variable	\$1,054.11	NA	NA	\$636.31

Fixed Costs (Annual)	Hull Insurance	\$40,673	\$10,780	\$11,082	\$8,375
	Liability Insurance	\$5,000	\$5,000	\$4,375	\$4,125
	Hull Insurance per \$100	\$0.55	\$0.55	\$0.37	\$0.25
	Liability Insurance per \$M	\$200	\$200	\$175	\$165
	Maintenance Software Programs	NA	NA	NA	\$6,710
	Miscellaneous Services	\$3,066	\$3,066	\$3,066	\$3,066

Periodic Costs	Mid-Life/Hot Section Inspection	\$8,000	NA	\$66,898	\$60,000
	Engine Overhaul	\$275,000	NA	\$239,453	\$250,000
	Overhaul Interval	3,600t	3,500t	3,500t	3,500t
	Paint	NA	NA	\$33,638	\$39,637
	Interior Refurbishment	NA	NA	\$38,492	\$86,752
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248

Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,511	\$40,511	\$40,511	\$40,511

Training	Pilot Initial (per pilot)	NA	NA	NA	\$13,008
	Maintenance Initial	NA	NA	NA	\$4,600

Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,507	\$2,507	\$2,507	\$2,507

2016 Operations Planning Guide

Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General		Textron Aviation	Textron Aviation	Textron Aviation	Textron Aviation
	Model	King Air 250EP	King Air 350i	King Air 350HW	King Air 350iER
	Category (1-6)	2	2	2	2
	BCA Equipped Price	\$6,231,025	\$6,995,000	\$7,329,055	\$8,445,625

Mission Costs	300 nm	Flight Time	1+05	1+02	1+06	1+05
		Direct Cost	\$940.88	\$956.52	\$1,030.05	\$999.42
		Fuel Expense	\$620.18	\$644.31	\$697.70	\$672.10
		Per-Mile Cost	\$3.14	\$3.19	\$3.43	\$3.33
	600 nm	Flight Time	2+05	2+02	2+07	2+07
		Direct Cost	\$1,693.27	\$1,689.42	\$1,781.15	\$1,757.75
		Fuel Expense	\$1,076.54	\$1,075.07	\$1,141.63	\$1,118.22
		Per-Mile Cost	\$2.82	\$2.82	\$2.97	\$2.93
	1,000 nm	Flight Time	3+31	3+27	3+33	3+35
		Direct Cost	\$2,593.69	\$2,579.66	\$2,701.29	\$2,687.96
		Fuel Expense	\$1,552.64	\$1,537.28	\$1,628.70	\$1,605.30
		Per-Mile Cost	\$2.59	\$2.58	\$2.70	\$2.69

Variable Costs (Hourly)	Fuel Expense	\$516.74	\$528.73	\$539.35	\$528.29
	Maintenance Hours/Flight Hour	0.97	0.97	0.97	0.97
	Service Center Maintenance Labor Expense	\$92.15	\$92.15	\$92.15	\$92.15
	Scheduled Parts Expense	\$89.53	\$95.64	\$95.64	\$95.64
	Miscellaneous Trip Expense	\$114.35	\$114.35	\$114.35	\$114.35
	Total Variable	\$812.77	\$830.86	\$841.49	\$830.43

Fixed Costs (Annual)	Hull Insurance	\$23,678	\$26,581	\$27,850	\$32,093
	Liability Insurance	\$15,000	\$15,000	\$15,000	\$15,000
	Hull Insurance per \$100	\$0.38	\$0.38	\$0.38	\$0.38
	Liability Insurance per \$M	\$150	\$150	\$150	\$150
	Maintenance Software Programs	\$5,964	\$5,781	\$5,781	\$5,781
	Miscellaneous Services	\$5,924	\$5,924	\$5,924	\$5,924

Periodic Costs	Mid-Life/Hot-Section Inspection	\$50,000	\$60,000	\$60,000	\$60,000
	Engine Overhaul	\$350,000	\$375,000	\$375,000	\$375,000
	Overhaul Interval	3,600t	3,600t	3,600t	3,600t
	Paint	\$42,052	\$38,626	\$38,626	\$38,626
	Interior Refurbishment	\$105,631	\$105,526	\$106,780	\$105,631
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802

Personnel Costs	Captain Salary	\$76,580	\$76,580	\$76,580	\$76,580
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890

Training	Pilot Initial (per pilot)	NA	\$21,122	\$21,122	\$21,122
	Maintenance Initial	NA	\$6,542	\$6,542	\$6,542

Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314

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Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Embraer		Honda Aircraft Co.	Textron Aviation	Nextant Aerospace
	Model	Phenom 100E	HondaJet	Cessna Citation M2	Nextant 400 XTi
	Category (1-6)	2	2	2	2
	BCA Equipped Price	\$4,161,600	\$4,500,000	\$4,500,000	\$5,304,500

Mission Costs	300 nm	Flight Time	0+55	0+53	0+52	0+48
		Direct Cost	\$748.45	NA	\$846.77	\$779.52
		Fuel Expense	\$541.93	\$494.39	\$588.00	\$574.84
		Per-Mile Cost	\$2.49	NA	\$2.82	\$2.60
	600 nm	Flight Time	1+46	1+38	1+38	1+30
		Direct Cost	\$1,321.72	NA	\$1,483.77	\$1,351.34
		Fuel Expense	\$923.69	\$862.25	\$996.09	\$967.57
		Per-Mile Cost	\$2.20	NA	\$2.47	\$2.25
	1,000 nm	Flight Time	3+05	2+40	2+42	2+28
		Direct Cost	\$2,065.21	NA	\$2,282.02	\$2,199.83
		Fuel Expense	\$1,370.54	\$1,362.49	\$1,475.85	\$1,568.73
		Per-Mile Cost	\$2.07	NA	\$2.28	\$2.20

Variable Costs (Hourly)	Fuel Expense	\$522.84	\$527.91	\$609.85	\$645.04
	Maintenance Hours/Flight Hour	0.66	NA	0.80	0.70
	Service Center Maintenance Labor Expense	\$62.70	NA	\$76.00	\$66.50
	Scheduled Parts Expense	\$48.25	NA	\$108.23	\$75.00
	Miscellaneous Trip Expense	\$114.35	\$80.21	\$114.35	\$114.35
	Total Variable	\$748.14	NA	\$908.43	\$900.89

Fixed Costs (Annual)	Hull Insurance	\$10,404	NA	\$11,250	\$20,157
	Liability Insurance	\$16,500	NA	\$16,500	\$15,000
	Hull Insurance per \$100	\$0.25	NA	\$0.25	\$0.38
	Liability Insurance per \$M	\$165	NA	\$165	\$150
	Maintenance Software Programs	\$3,355	NA	NA	NA
	Miscellaneous Services	\$5,924	\$5,924	\$5,924	\$5,924

Periodic Costs	Mid-Life/Hot-Section Inspection	NA	NA	\$75,000	NA
	Engine Overhaul	NA	NA	\$300,000	NA
	Overhaul Interval	3,500t	NA	5,000t	5,000t
	Paint	\$39,518	NA	\$40,219	\$42,482
	Interior Refurbishment	\$92,100	NA	\$88,028	\$103,179
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802

Personnel Costs	Captain Salary	\$76,580	\$76,580	\$76,580	\$76,580
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890

Training	Pilot Initial (per pilot)	NA	NA	\$15,261	\$21,396
	Maintenance Initial	NA	NA	\$8,139	\$7,711

Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314

2016 Operations Planning Guide

Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Textron Aviation		SyberJet Aircraft		Embraer		Textron Aviation	
	Model	Cessna Citation CJ3+	SJ30i	Phenom 300	Cessna Citation CJ4			
	Category (1-6)	2	2	2	2			
	BCA Equipped Price	\$7,995,000	\$8,306,452	\$8,955,000	\$8,995,000			

Mission Costs	300 nm	Flight Time	0+49	0+45	0+47	0+46
		Direct Cost	\$912.64	\$859.32	\$989.40	\$982.11
		Fuel Expense	\$708.67	\$618.72	\$773.76	\$794.97
		Per-Mile Cost	\$3.04	\$2.86	\$3.30	\$3.27
	600 nm	Flight Time	1+35	1+26	1+29	1+27
		Direct Cost	\$1,544.38	\$1,420.07	\$1,677.21	\$1,717.89
		Fuel Expense	\$1,148.94	\$960.25	\$1,268.88	\$1,363.96
		Per-Mile Cost	\$2.57	\$2.37	\$2.80	\$2.86
	1,000 nm	Flight Time	2+36	2+21	2+26	2+23
		Direct Cost	\$2,342.42	\$2,201.94	\$2,477.00	\$2,646.34
		Fuel Expense	\$1,693.06	\$1,448.06	\$1,807.15	\$2,064.58
		Per-Mile Cost	\$2.34	\$2.20	\$2.48	\$2.65

Variable Costs (Hourly)	Fuel Expense	\$725.65	\$669.94	\$855.43	\$940.66
	Maintenance Hours/Flight Hour	0.60	1.05	0.75	0.30
	Service Center Maintenance Labor Expense	\$57.00	\$99.75	\$71.25	\$28.50
	Scheduled Parts Expense	\$78.40	\$106.70	\$89.68	\$101.24
	Miscellaneous Trip Expense	\$114.35	\$114.35	\$114.35	\$114.35
	Total Variable	\$975.40	\$990.74	\$1,130.70	\$1,184.75

Fixed Costs (Annual)	Hull Insurance	\$18,389	\$20,766	\$22,388	\$22,488
	Liability Insurance	\$16,500	\$16,500	\$16,500	\$16,500
	Hull Insurance per \$100	\$0.23	\$0.25	\$0.25	\$0.25
	Liability Insurance per \$M	\$165	\$165	\$165	\$165
	Maintenance Software Programs	\$1,911	\$1,755	\$3,355	\$1,755
	Miscellaneous Services	\$5,924	\$5,924	\$5,924	\$5,924

Periodic Costs	Mid-Life/Hot-Section Inspection	\$85,000	\$63,935	NA	\$100,000
	Engine Overhaul	\$350,000	\$288,099	NA	\$425,000
	Overhaul Interval	5,000t	3,500t	5,000t	5,000t
	Paint	\$42,444	\$34,360	\$43,777	\$43,308
	Interior Refurbishment	\$105,069	\$79,898	\$126,042	\$105,103
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802

Personnel Costs	Captain Salary	\$76,580	\$76,580	\$76,580	\$76,580
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890

Training	Pilot Initial (per pilot)	\$20,131	\$11,356	NA	\$16,628
	Maintenance Initial	\$5,918	\$4,646	NA	\$5,366

Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314

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Production Aircraft – Category 3 – Jets 20,000 lb. to 30,000 lb.

General	Bombardier		Textron Aviation		Bombardier	Gulfstream Aerospace
	Model	Learjet 70	Cessna Citation XLS+		Learjet 75	Gulfstream 150
	Category (1-6)	3	3		3	3
	BCA Equipped Price	\$11,300,000	\$12,750,000		\$13,800,000	\$15,700,000

Mission Costs	300 nm	Flight Time	0+45	0+46	0+45	0+50
		Direct Cost	\$1,011.18	\$1,305.38	\$1,013.38	\$1,350.46
		Fuel Expense	\$784.00	\$911.25	\$786.19	\$899.55
		Per-Mile Cost	\$3.37	\$4.35	\$3.38	\$4.50
	600 nm	Flight Time	1+24	1+29	1+23	1+32
		Direct Cost	\$1,744.15	\$2,293.97	\$1,742.76	\$2,273.34
		Fuel Expense	\$1,320.07	\$1,531.43	\$1,323.73	\$1,443.67
		Per-Mile Cost	\$2.91	\$3.82	\$2.90	\$3.79
	1,000 nm	Flight Time	2+18	2+26	2+18	2+28
		Direct Cost	\$2,734.95	\$3,599.25	\$2,738.60	\$3,527.26
		Fuel Expense	\$2,038.25	\$2,348.34	\$2,041.91	\$2,192.57
		Per-Mile Cost	\$2.73	\$3.60	\$2.74	\$3.53

Variable Costs (Hourly)	Fuel Expense	\$942.91	\$1,032.43	\$956.91	\$941.52
	Maintenance Hours/Flight Hour	0.52	1.20	0.52	0.99
	Service Center Maintenance Labor Expense	\$52.00	\$120.00	\$52.00	\$99.00
	Scheduled Parts Expense	\$48.52	\$191.68	\$48.52	\$239.70
	Miscellaneous Trip Expense	\$202.39	\$202.39	\$202.39	\$202.39
	Total Variable	\$1,245.82	\$1,546.50	\$1,259.82	\$1,482.61

Fixed Costs (Annual)	Hull Insurance	\$25,990	\$26,010	\$31,740	\$31,400
	Liability Insurance	\$26,600	\$26,600	\$26,600	\$26,000
	Hull Insurance per \$100	\$0.23	\$0.20	\$0.23	\$0.20
	Liability Insurance per \$M	\$133	\$133	\$133	\$130
	Maintenance Software Programs	\$1,736	\$1,755	\$1,755	\$6,297
	Miscellaneous Services	\$10,890	\$10,890	\$10,890	\$10,890

Periodic Costs	Mid-Life/Hot-Section Inspection	\$108,556	\$115,000	\$108,556	\$133,524
	Engine Overhaul	\$392,664	\$780,000	\$392,664	\$303,957
	Overhaul Interval	6,000t	5,000t	6,000t	6,000t
	Paint	\$55,736	\$64,340	\$55,736	\$55,245
	Interior Refurbishment	\$120,298	\$157,773	\$120,298	\$121,813
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555	\$42,555

Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899	\$103,899
	First Officer Salary	\$73,730	\$73,730	\$73,730	\$73,730

Training	Pilot Initial (per pilot)	\$24,209	\$25,862	\$24,209	\$45,154
	Maintenance Initial	\$10,368	\$9,977	\$10,368	\$11,358

Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345	\$34,345
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268	\$10,268

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Production Aircraft – Category 4 – Jets 30,000 lb. to 41,000 lb.

General	Textron Aviation		Textron Aviation	Embraer	Textron Aviation
	Model	Cessna Citation X Elite	Cessna Citation Latitude	Legacy 450	Citation Sovereign+
	Category (1-6)	4	4	4	4
	BCA Equipped Price	\$6,500,000	\$16,250,000	\$16,570,000	\$17,895,000

Mission Costs	300 nm	Flight Time	0+41	0+46	NA	0+45
		Direct Cost	NA	NA	NA	\$1,508.98
		Fuel Expense	\$1,343.48	\$1,177.46	NA	\$1,101.40
		Per-Mile Cost	NA	NA	NA	\$5.03
	600 nm	Flight Time	1+16	1+29	1+26	1+26
		Direct Cost	NA	NA	\$2,477.84	\$2,537.07
		Fuel Expense	\$2,087.99	\$1,150.40	\$1,812.27	\$1,758.15
		Per-Mile Cost	NA	NA	\$4.13	\$4.23
	1,000 nm	Flight Time	2+03	2+25	NA	2+21
		Direct Cost	NA	NA	NA	\$4,019.60
		Fuel Expense	\$3,268.37	\$2,917.33	NA	\$2,742.54
		Per-Mile Cost	NA	NA	NA	\$4.02

Variable Costs (Hourly)	Fuel Expense	\$1,648.41	\$775.55	\$1,264.37	\$1,226.62
	Maintenance Hours/Flight Hour	NA	0.60	0.47	0.90
	Service Center Maintenance Labor Expense	NA	\$63.00	\$49.35	\$94.50
	Scheduled Parts Expense	NA	NA	\$97.82	\$82.87
	Miscellaneous Trip Expense	\$365.62	\$365.62	\$366.06	\$366.06
	Total Variable	NA	NA	\$1,777.61	\$1,770.05

Fixed Costs (Annual)	Hull Insurance	\$11,700	\$29,250	\$29,826	\$32,211
	Liability Insurance	\$22,400	\$22,400	\$11,200	\$22,400
	Hull Insurance per \$100	\$0.18	\$0.18	\$0.18	\$0.18
	Liability Insurance per \$M	\$112	\$112	\$112	\$112
	Maintenance Software Programs	\$1,755	\$1,755	NA	\$1,755
	Miscellaneous Services	\$11,925	\$11,925	\$11,925	\$11,925

Periodic Costs	Mid-Life/Hot Section Inspection	NA	\$150,000	NA	\$150,000
	Engine Overhaul	NA	\$725,000	NA	\$725,000
	Overhaul Interval	OC	6,000t	OC	6,000t
	Paint	\$82,754	\$82,754	NA	\$79,835
	Interior Refurbishment	\$152,196	\$154,984	NA	\$157,773
	Modernization/Modification/Upgrade	\$65,581	\$65,581	NA	\$65,581

Personnel Costs	Captain Salary	\$126,969	\$126,969	\$126,969	\$126,969
	First Officer Salary	\$83,656	\$83,656	\$83,656	\$83,656

Training	Pilot Initial (per pilot)	\$27,965	\$29,692	NA	\$31,418
	Maintenance Initial	\$11,563	\$9,911	NA	\$8,259

Facilities (Annual)	Hangar/Office Lease Expense	\$57,813	\$57,813	\$57,813	\$57,813
	Miscellaneous Office Expense	\$18,518	\$18,518	\$18,518	\$18,518

2016 Operations Planning Guide

Production Aircraft – Category 4 – Jets 30,000 lb. to 41,000 lb.

General					
		Embraer	Textron Aviation	Gulfstream Aerospace	Bombardier
	Model	Legacy 500	Cessna Citation X+	Gulfstream 280	Challenger 350
	Category (1-6)	4	4	4	4
	BCA Equipped Price	\$19,995,000	\$23,365,000	\$24,500,000	\$26,673,000

Mission Costs	300 nm	Flight Time	0+45	0+41	0+47	0+47
		Direct Cost	\$1,517.13	\$1,724.03	\$1,545.61	\$1,540.84
		Fuel Expense	\$1,129.93	\$1,336.16	\$1,100.67	\$1,157.72
		Per-Mile Cost	\$5.06	\$5.75	\$5.15	\$5.14
	600 nm	Flight Time	1+26	1+16	1+26	1+26
		Direct Cost	\$2,552.26	\$2,866.93	\$2,578.14	\$2,585.71
		Fuel Expense	\$1,812.27	\$2,147.96	\$1,764.00	\$1,884.67
		Per-Mile Cost	\$4.25	\$4.78	\$4.30	\$4.31
	1,000 nm	Flight Time	2+21	2+02	2+18	2+18
		Direct Cost	\$3,955.78	\$4,576.84	\$3,972.15	\$3,995.44
		Fuel Expense	\$2,742.54	\$3,422.69	\$2,665.75	\$2,870.52
		Per-Mile Cost	\$3.96	\$4.58	\$3.97	\$4.00

Variable Costs (Hourly)	Fuel Expense	\$1,264.37	\$1,695.75	\$1,230.70	\$1,314.89
	Maintenance Hours/Flight Hour	0.48	0.90	\$0.78	0.77
	Service Center Maintenance Labor Expense	\$50.40	\$94.50	\$81.90	\$80.85
	Scheduled Parts Expense	\$99.81	\$107.49	\$120.04	\$42.18
	Miscellaneous Trip Expense	\$366.06	\$365.62	\$366.06	\$366.06
	Total Variable	\$1,780.65	\$2,263.37	\$1,798.70	\$1,803.98

Fixed Costs (Annual)	Hull Insurance	\$35,991	\$42,992	\$31,850	\$34,675
	Liability Insurance	\$22,400	\$22,400	\$22,400	\$23,400
	Hull Insurance per \$100	\$0.18	\$0.18	\$0.13	\$0.13
	Liability Insurance per \$M	\$112	\$112	\$112	\$117
	Maintenance Software Programs	NA	\$1,755	\$11,501	\$8,142
	Miscellaneous Services	\$11,925	\$11,925	\$11,925	\$11,925

Periodic Costs	Mid-Life/Hot Section Inspection	NA	\$310,094	NA	NA
	Engine Overhaul	NA	\$698,101	NA	NA
	Overhaul Interval	OC	OC	OC	OC
	Paint	NA	\$85,674	\$84,551	\$117,338
	Interior Refurbishment	NA	\$152,196	\$191,708	\$236,433
	Modernization/Modification/Upgrade	\$65,581	\$65,581	\$65,581	\$65,581

Personnel Costs	Captain Salary	\$126,969	\$126,969	\$126,969	\$126,969
	First Officer Salary	\$83,656	\$83,656	\$83,656	\$83,656

Training	Pilot Initial (per pilot)	NA	\$27,965	NA	\$76,592
	Maintenance Initial	NA	\$11,563	NA	\$12,251

Facilities (Annual)	Hangar/Office Lease Expense	\$57,813	\$57,813	\$57,813	\$57,813
	Miscellaneous Office Expense	\$18,518	\$18,518	\$18,518	\$18,518

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Production Aircraft – Category 5 – Jets >41,000 lb.

General	Embraer		Dassault	Embraer	Bombardier
	Model	Legacy 600	Falcon 2000S	Legacy 650	Challenger 650
	Category (1-6)	5	5	5	5
	BCA Equipped Price	\$26,000,000	\$28,900,000	\$31,600,000	\$32,350,000

Mission Costs	300 nm	Flight Time	0+48	0+47	0+49	0+47
		Direct Cost	\$2,026.69	\$1,721.60	\$1,920.44	\$1,640.11
		Fuel Expense	\$1,385.16	\$1,115.30	\$1,296.67	\$1,166.49
		Per-Mile Cost	\$6.76	\$5.74	\$6.40	\$5.47
	600 nm	Flight Time	1+37	1+27	1+34	1+27
		Direct Cost	\$3,522.62	\$2,925.07	\$3,497.42	\$2,950.05
		Fuel Expense	\$2,226.21	\$1,802.76	\$2,300.81	\$2,073.36
		Per-Mile Cost	\$5.87	\$4.88	\$5.83	\$4.92
	1,000 nm	Flight Time	2+36	2+20	2+33	2+19
		Direct Cost	\$5,544.94	\$4,552.20	\$5,469.09	\$4,715.14
		Fuel Expense	\$3,459.99	\$2,746.19	\$3,521.42	\$3,314.45
		Per-Mile Cost	\$5.54	\$4.55	\$5.47	\$4.72

Variable Costs (Hourly)	Fuel Expense	\$1,330.76	\$1,176.94	\$1,380.95	\$1,430.70
	Maintenance Hours/Flight Hour	1.81	2.14	1.73	0.79
	Service Center Maintenance Labor Expense	\$199.10	\$235.40	\$190.30	\$86.90
	Scheduled Parts Expense	\$140.20	\$76.00	\$110.89	\$55.11
	Miscellaneous Trip Expense	\$462.60	\$462.60	\$462.60	\$462.60
	Total Variable	\$2,132.67	\$1,950.94	\$2,144.74	\$2,035.31

Fixed Costs (Annual)	Hull Insurance	\$33,800	\$37,570	\$41,080	\$42,055
	Liability Insurance	\$22,400	\$22,400	\$22,400	\$22,400
	Hull Insurance per \$100	\$0.13	\$0.13	\$0.13	\$0.13
	Liability Insurance per \$M	\$112	\$112	\$112	\$112
	Maintenance Software Programs	\$8,142	\$8,362	\$8,142	\$8,142
	Miscellaneous Services	\$13,486	\$13,486	\$13,486	\$13,486

Periodic Costs	Mid-Life/Hot-Section Inspection	\$278,349	\$275,081.47	NA	NA
	Engine Overhaul	\$508,522	\$642,086.03	NA	NA
	Overhaul Interval	OC	7,000c	OC	OC
	Paint	\$167,979	\$88,695	\$167,979	NA
	Interior Refurbishment	\$315,320	\$223,107	\$315,320	NA
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406

Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576

Training	Pilot Initial (per pilot)	\$32,313	\$34,481	\$32,593	NA
	Maintenance Initial	\$13,085	\$10,049	\$12,905	NA

Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558

2016 Operations Planning Guide

Production Aircraft – Category 5 – Jets >41,000 lb.

General	Dassault		Gulfstream Aerospace		Dassault		Gulfstream Aerospace	
	Model	Falcon 2000LXS	Gulfstream 450		Falcon 900LX		Gulfstream 500	
	Category (1-6)	5	5		5		5	
	BCA Equipped Price	\$34,150,000	\$43,150,000		\$43,800,000		\$44,650,000	

Mission Costs	300 nm	Flight Time	0+47	0+46	0+47	0+45
		Direct Cost	\$1,721.60	\$2,462.40	\$1,814.86	NA
		Fuel Expense	\$1,115.30	\$1,900.76	\$1,166.49	\$1,663.07
		Per-Mile Cost	\$5.74	\$8.21	\$6.05	NA
	600 nm	Flight Time	1+27	1+25	1+27	1+22
		Direct Cost	\$2,925.07	\$4,045.83	\$3,119.95	NA
		Fuel Expense	\$1,802.76	\$3,008.01	\$1,919.78	\$2,604.31
		Per-Mile Cost	\$4.88	\$6.74	\$5.20	NA
	1,000 nm	Flight Time	2+20	2+18	2+20	2+12
		Direct Cost	\$4,552.20	\$6,201.70	\$4,907.88	NA
		Fuel Expense	\$2,746.19	\$4,516.78	\$2,976.57	\$3,885.63
		Per-Mile Cost	\$4.55	\$6.20	\$4.91	NA

Variable Costs (Hourly)	Fuel Expense	\$1,176.94	\$1,963.82	\$1,275.67	\$1,766.19
	Maintenance Hours/Flight Hour	2.14	1.52	2.31	NA
	Service Center Maintenance Labor Expense	\$235.40	\$167.20	\$254.10	NA
	Scheduled Parts Expense	\$76.00	\$102.77	\$111.00	NA
	Miscellaneous Trip Expense	\$462.60	\$462.60	\$462.60	\$462.60
	Total Variable	\$1,950.94	\$2,696.39	\$2,103.38	NA

Fixed Costs (Annual)	Hull Insurance	\$44,395	\$47,465	\$56,940	\$49,115
	Liability Insurance	\$22,400	\$22,400	\$22,400	\$22,400
	Hull Insurance per \$100	\$0.13	\$0.11	\$0.13	\$0.11
	Liability Insurance per \$M	\$112	\$112	\$112	\$112
	Maintenance Software Programs	\$8,362	\$9,395	\$8,362	\$9,395
	Miscellaneous Services	\$13,486	\$13,486	\$13,486	\$13,486

Periodic Costs	Mid-Life/Hot-Section Inspection	\$281,408.01	\$553,489	\$148,856	NA
	Engine Overhaul	\$656,854.08	\$1,212,235	\$357,708	NA
	Overhaul Interval	7,000c	12,000t or OC	6,000c	10,000t
	Paint	\$88,695	\$142,715	\$114,996	NA
	Interior Refurbishment	\$223,107	\$301,160	\$248,631	NA
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	NA

Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576

Training	Pilot Initial (per pilot)	\$35,885	\$76,592	\$37,746	NA
	Maintenance Initial	\$11,315	\$20,827	\$10,633	NA

Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558

2016 Operations Planning Guide

Production Aircraft – Category 5 – Jets >41,000 lb.

General					
		Bombardier	Embraer	Dassault	Airbus
	Model	Global 5000	Lineage 1000E	Falcon 7X	ACJ320ceo*
	Category (1-6)	5	5	5	5
	BCA Equipped Price	\$50,441,000	\$53,000,000	\$53,800,000	\$95,000,000

Mission Costs	300 nm	Flight Time	0+46	0+48	0+46	0+55
		Direct Cost	\$2,518.37	\$3,176.67	\$2,069.92	NA
		Fuel Expense	\$2,028.01	\$2,505.58	\$1,517.54	\$3,119.18
		Per-Mile Cost	\$8.39	\$10.59	\$6.90	NA
	600 nm	Flight Time	1+23	1+26	1+25	1+34
		Direct Cost	\$4,135.59	\$5,489.49	\$3,423.18	NA
		Fuel Expense	\$3,250.82	\$4,287.13	\$2,402.46	\$5,177.91
		Per-Mile Cost	\$6.89	\$9.15	\$5.71	NA
	1,000 nm	Flight Time	2+13	2+20	2+17	2+28
		Direct Cost	\$6,355.80	\$8,585.49	\$5,261.64	NA
		Fuel Expense	\$4,938.03	\$6,628.16	\$3,616.49	\$8,022.84
		Per-Mile Cost	\$6.36	\$8.59	\$5.26	NA

Variable Costs (Hourly)	Fuel Expense	\$2,227.68	\$2,840.64	\$1,583.87	\$3,252.50
	Maintenance Hours/Flight Hour	1.11	1.54	1.49	NA
	Service Center Maintenance Labor Expense	\$122.10	\$169.40	\$163.90	NA
	Scheduled Parts Expense	\$54.89	\$206.85	\$94.00	\$183.00
	Miscellaneous Trip Expense	\$462.60	\$462.60	\$462.60	\$462.60
	Total Variable	\$2,867.28	\$3,679.50	\$2,304.37	NA

Fixed Costs (Annual)	Hull Insurance	\$65,573	\$68,900	\$64,560	\$123,500
	Liability Insurance	\$22,400	\$22,400	\$22,400	\$22,400
	Hull Insurance per \$100	\$0.13	\$0.13	\$0.12	\$0.13
	Liability Insurance per \$M	\$112	\$112	\$112	\$112
	Maintenance Software Programs	NA	\$8,142	\$8,362	NA
	Miscellaneous Services	\$13,486	\$13,486	\$13,486	\$13,486

Periodic Costs	Mid-Life/Hot-Section Inspection	\$461,369	NA	NA	NA
	Engine Overhaul	\$919,563	NA	NA	\$1,909,895
	Overhaul Interval	OC	OC	7,200c	OC
	Paint	\$181,678	\$160,161	NA	\$307,101
	Interior Refurbishment	\$315,320	\$293,857	NA	\$582,543
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406

Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576

Training	Pilot Initial (per pilot)	\$36,443	NA	NA	\$36,831
	Maintenance Initial	\$13,627	NA	NA	\$21,976

Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558 *Current engine option

2016 Operations Planning Guide

Production Aircraft – Category 6 – Ultra-Long-Range Jets

General		Dassault	Gulfstream Aerospace	Bombardier	Gulfstream Aerospace
	Model	Falcon 8X	Gulfstream 550	Global 6000	Gulfstream 650
	Category (1-6)	6	6	6	6
	BCA Equipped Price	\$57,500,000	\$61,500,000	\$62,310,000	\$66,800,000

Mission Costs	1,000 nm	Flight Time	2+17	2+20	2+13	2+10
		Direct Cost	\$5,264.01	\$6,103.21	\$6,529.12	\$6,112.50
		Fuel Expense	\$3,539.70	\$4,094.79	\$5,003.85	\$4,345.64
		Per-Mile Cost	\$5.26	\$6.10	\$6.53	\$6.11
	3,000 nm	Flight Time	6+39	6+42	6+20	6+17
		Direct Cost	\$15,044.95	\$17,083.84	\$18,646.90	\$17,030.15
		Fuel Expense	\$10,023.06	\$11,316.81	\$14,288.99	\$11,906.27
		Per-Mile Cost	\$5.01	\$5.69	\$6.22	\$5.68
	6,000 nm	Flight Time	13+12	13+15	12+39	12+28
		Direct Cost	\$31,824.46	\$35,852.30	\$38,728.19	\$35,486.78
		Fuel Expense	\$21,856.19	\$24,447.34	\$30,023.84	\$25,320.57
		Per-Mile Cost	\$5.30	\$5.98	\$6.45	\$5.91

Variable Costs (Hourly)	Fuel Expense	\$1,550.23	\$1,754.91	\$2,257.38	\$2,005.68
	Maintenance Hours/Flight Hour	1.46	2.02	1.10	1.64
	Service Center Maintenance Labor Expense	\$160.60	\$222.20	\$121.00	\$180.40
	Scheduled Parts Expense	\$82.00	\$125.98	\$54.52	\$122.50
	Miscellaneous Trip Expense	\$512.57	\$512.57	\$512.57	\$512.57
	Total Variable	\$2,305.41	\$2,615.66	\$2,945.47	\$2,821.15

Fixed Costs (Annual)	Hull Insurance	\$68,109	\$67,650	\$71,657	\$86,840
	Liability Insurance	\$22,400	\$22,400	\$22,400	\$22,400
	Hull Insurance per \$100	\$0.12	\$0.11	\$0.12	\$0.13
	Liability Insurance per \$M	\$112	\$112	\$112	\$112
	Maintenance Software Programs	\$8,264	\$9,395	NA	\$9,395
	Miscellaneous Services	\$19,236	\$19,236	\$19,236	\$19,236

Periodic Costs	Mid-Life/Hot-Section Inspection	\$268,418	\$716,778	\$461,369	NA
	Engine Overhaul	\$640,073	\$1,144,149	\$933,164	NA
	Overhaul Interval	7,200c	8,000t or OC	OC	10,000t
	Paint	\$114,996	\$205,820	\$196,050	\$213,547
	Interior Refurbishment	\$248,631	\$350,380	\$350,380	\$347,286
	Modernization/Modification/Upgrade	\$79,837	\$79,837	\$79,837	\$79,837

Personnel Costs	Captain Salary	\$150,175	\$150,175	\$150,175	\$150,175
	First Officer Salary	\$125,042	\$125,042	\$125,042	\$125,042

Training	Pilot Initial (per pilot)	\$53,496	\$64,057	\$40,841	NA
	Maintenance Initial	\$20,613	\$12,896	\$20,529	NA

Facilities (Annual)	Hangar/Office Lease Expense	\$104,063	\$104,063	\$104,063	\$104,063
	Miscellaneous Office Expense	\$62,141	\$62,141	\$62,141	\$62,141

2016 Operations Planning Guide

Production Aircraft – Category 6 – Ultra-Long-Range Jets

General	Gulfstream Aerospace		Boeing	Airbus
	Model	Gulfstream 650ER	BBJ	ACJ319ceo*
	Category (1-6)	6	6	6
	BCA Equipped Price	\$68,800,000	\$79,000,000	\$87,000,000

Mission Costs	1,000 nm	Flight Time	2+10	2+27	2+26
		Direct Cost	\$6,112.50	\$9,761.57	NA
		Fuel Expense	\$4,345.64	\$7,663.01	\$7,584.03
		Per-Mile Cost	\$6.11	\$9.76	NA
	3,000 nm	Flight Time	6+17	6+54	6+54
		Direct Cost	\$17,030.15	\$27,509.70	NA
		Fuel Expense	\$11,906.27	\$21,599.49	\$21,991.49
		Per-Mile Cost	\$5.68	\$9.17	NA
	6,000 nm	Flight Time	12+28	13+34	13+35
		Direct Cost	\$35,486.78	\$57,922.62	NA
		Fuel Expense	\$25,320.57	\$46,302.07	\$47,923.46
		Per-Mile Cost	\$5.91	\$9.65	NA

Variable Costs (Hourly)	Fuel Expense	\$2,005.68	\$3,127.76	\$3,116.72
	Maintenance Hours/Flight Hour	1.64	2.35	NA
	Service Center Maintenance Labor Expense	\$180.40	\$258.50	NA
	Scheduled Parts Expense	\$122.50	\$85.48	\$179.00
	Miscellaneous Trip Expense	\$512.57	\$512.57	\$512.57
	Total Variable	\$2,821.15	\$3,984.31	NA

Fixed Costs (Annual)	Hull Insurance	\$89,440	\$105,781	\$113,100
	Liability Insurance	\$22,400	\$22,400	\$22,400
	Hull Insurance per \$100	\$0.13	\$0.13	\$0.13
	Liability Insurance per \$M	\$112	\$112	\$112
	Maintenance Software Programs	\$9,395	\$12,389	NA
	Miscellaneous Services	\$19,236	\$19,236	\$19,236

Periodic Costs	Mid-Life/Hot-Section Inspection	NA	NA	NA
	Engine Overhaul	NA	NA	\$1,909,895
	Overhaul Interval	10,000t	OC	OC
	Paint	\$213,547	\$279,928	\$279,928
	Interior Refurbishment	\$347,286	\$560,406	\$610,038
	Modernization/Modification/Upgrade	\$79,837	\$79,837	\$79,837

Personnel Costs	Captain Salary	\$150,175	\$150,175	\$150,175
	First Officer Salary	\$125,042	\$125,042	\$125,042

Training	Pilot Initial (per pilot)	NA	\$42,194	\$36,340
	Maintenance Initial	NA	\$24,825	\$24,215

Facilities (Annual)	Hangar/Office Lease Expense	\$104,063	\$104,063	\$104,063
	Miscellaneous Office Expense	\$62,141	\$62,141	\$62,141 *Current engine option



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2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Beechcraft		Piper Aircraft		Piper Aircraft		Beechcraft	
	Model	King Air A100	Cheyenne I	Cheyenne II	Cheyenne II	Cheyenne II	King Air B100	King Air B100
	Category (1-6)	1	1	1	1	1	1	1
	Aircraft Bluebook Retail Price (Model Year)	\$400,000 (1979)	\$460,000 (1983)	\$505,000 (1983)	\$505,000 (1983)	\$505,000 (1983)	\$520,000 (1983)	\$520,000 (1983)
Mission Costs	300 nm	Flight Time	1+40	1+29	1+28	1+28	1+15	1+15
		Direct Cost	\$1,248.88	\$1,050.74	\$1,158.82	\$1,158.82	\$1,103.04	\$1,103.04
		Fuel Expense	\$421.99	\$522.20	\$519.26	\$519.26	\$583.60	\$583.60
		Per-Mile Cost	\$4.16	\$3.50	\$3.86	\$3.86	\$3.68	\$3.68
	600 nm	Flight Time	3+05	2+47	2+39	2+39	2+35	2+35
		Direct Cost	\$2,552.18	\$1,969.54	\$2,095.87	\$2,095.87	\$2,282.07	\$2,282.07
		Fuel Expense	\$1,022.45	\$977.80	\$940.30	\$940.30	\$1,208.56	\$1,208.56
		Per-Mile Cost	\$4.25	\$3.28	\$3.49	\$3.49	\$3.80	\$3.80
	1,000 nm	Flight Time	5+02	4+31	4+14	4+14	4+10	4+10
		Direct Cost	\$4,081.28	\$3,199.31	\$3,346.25	\$3,346.25	\$3,680.97	\$3,680.97
		Fuel Expense	\$1,584.10	\$1,589.95	\$1,500.24	\$1,500.24	\$1,949.50	\$1,949.50
		Per-Mile Cost	\$4.08	\$3.20	\$3.35	\$3.35	\$3.68	\$3.68
Variable Costs (Hourly)	Fuel Expense	\$253.20	\$352.05	\$354.04	\$354.04	\$354.04	\$466.88	\$466.88
	Maintenance Labor Expense	\$237.61	\$141.69	\$223.45	\$223.45	\$223.45	\$216.90	\$216.90
	Parts Expense	\$177.22	\$133.32	\$131.32	\$131.32	\$131.32	\$117.35	\$117.35
	Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30	\$81.30	\$81.30	\$81.30	\$81.30
	Total Variable	\$749.33	\$708.36	\$790.11	\$790.11	\$790.11	\$882.43	\$882.43
Fixed Costs (Annual)	Hull Insurance	\$2,800	\$6,670	\$6,818	\$6,818	\$6,818	\$3,640	\$3,640
	Liability Insurance	\$4,625	\$4,625	\$4,625	\$4,625	\$4,625	\$4,625	\$4,625
	Hull Insurance per \$100	\$0.70	\$1.45	\$1.35	\$1.35	\$1.35	\$0.70	\$0.70
	Liability Insurance per \$M	\$185	\$185	\$185	\$185	\$185	\$185	\$185
	Maintenance Software Programs	\$5,795	NA	NA	NA	NA	\$5,781	\$5,781
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	\$3,121	\$3,121	\$3,121
Periodic Costs	Mid-Life/Hot-Section Inspection	\$40,469	\$58,150	\$41,627	\$41,627	\$41,627	\$34,325	\$34,325
	Engine Overhaul	\$326,884	\$219,689	\$333,850	\$333,850	\$333,850	\$221,455	\$221,455
	Overhaul Interval	3,600t	3,600t	3,600t	3,600t	3,600t	5,400t	5,400t
	Paint	\$31,493	\$30,474	\$30,474	\$30,474	\$30,474	\$34,212	\$34,212
	Interior Refurbishment	\$92,819	\$55,392	\$55,392	\$55,392	\$55,392	\$83,201	\$83,201
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	\$40,512	\$40,512	\$40,512
Training	Pilot Initial (Per Pilot)	\$9,995	\$6,125	\$8,226	\$8,226	\$8,226	\$7,676	\$7,676
	Maintenance Initial	\$5,301	\$5,167	\$5,758	\$5,758	\$5,758	\$5,753	\$5,753
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	\$2,508	\$2,508	\$2,508

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Beechcraft		Fairchild Aerospace	Beechcraft	Mitsubishi	
	Model	King Air E90	Merlin IIIB	King Air 200	Solitaire	
	Category (1-6)	1	1	1	1	
	Aircraft Bluebook Retail Price (Model Year)	\$550,000 (1981)	\$550,000 (1981)	\$600,000 (1981)	\$600,000 (1985)	
Mission Costs	300 nm	Flight Time	1+12	1+06	1+07	1+06
		Direct Cost	\$938.36	\$958.18	\$967.30	\$939.63
		Fuel Expense	\$436.60	\$440.92	\$579.97	\$458.55
		Per-Mile Cost	\$3.13	\$3.19	\$3.22	\$3.13
	600 nm	Flight Time	2+43	2+13	2+13	2+05
		Direct Cost	\$2,126.81	\$1,953.34	\$1,920.05	\$1,781.07
		Fuel Expense	\$990.88	\$910.98	\$1,151.16	\$869.93
		Per-Mile Cost	\$3.54	\$3.26	\$3.20	\$2.97
	1,000 nm	Flight Time	5+16	3+41	3+39	3+28
		Direct Cost	\$4,122.35	\$3,246.23	\$3,161.73	\$2,964.37
		Fuel Expense	\$1,920.18	\$1,514.18	\$1,895.66	\$1,448.24
		Per-Mile Cost	\$4.12	\$3.25	\$3.16	\$2.96
	Variable Costs (Hourly)	Fuel Expense	\$363.83	\$400.83	\$519.37	\$416.86
		Maintenance Labor Expense	\$217.47	\$272.71	\$173.59	\$248.54
		Parts Expense	\$119.36	\$116.22	\$91.97	\$107.50
Miscellaneous Trip Expense		\$81.30	\$81.30	\$81.30	\$81.30	
Total Variable		\$781.96	\$871.07	\$866.24	\$854.21	
Fixed Costs (Annual)	Hull Insurance	\$3,850	\$7,810	\$4,200	\$12,000	
	Liability Insurance	\$4,625	\$4,625	\$4,625	\$7,125	
	Hull Insurance per \$100	\$0.70	\$1.42	\$0.70	\$2.00	
	Liability Insurance per \$M	\$185	\$185	\$185	\$285	
	Maintenance Software Programs	\$5,781	\$3,613	\$5,781	NA	
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$41,261	\$38,627	\$47,518	\$33,218	
	Engine Overhaul	\$331,124	\$214,516	\$296,574	\$218,687	
	Overhaul Interval	3,600t	5,400t	3,600t	5,400t	
	Paint	\$30,474	\$32,739	\$33,079	\$35,685	
	Interior Refurbishment	\$71,964	\$89,557	\$102,157	\$54,370	
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	
Training	Pilot Initial (Per Pilot)	\$7,550	\$11,132	\$9,601	\$17,024	
	Maintenance Initial	\$5,859	\$5,301	\$5,472	\$5,025	
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,535	\$2,508	

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Mitsubishi		Fairchild Aerospace		Beechcraft	Twin Commander
	Model	Marquise	Merlin IIIC /23	King Air F90	Twin Commander 900	
	Category (1-6)	1	1	1	1	
	Aircraft Bluebook Retail Price (Model Year)	\$625,000 (1985)	\$700,000 (1983)	\$725,000 (1983)	\$750,000 (1985)	
Mission Costs	300 nm	Flight Time	1+06	1+06	1+11	1+15
		Direct Cost	\$1,029.37	\$898.19	\$1,026.77	\$1,032.96
		Fuel Expense	\$537.50	\$451.24	\$579.96	\$460.75
		Per-Mile Cost	\$3.43	\$2.99	\$3.42	\$3.44
	600 nm	Flight Time	2+06	2+13	2+20	2+25
		Direct Cost	\$1,909.22	\$1,809.71	\$2,024.87	\$1,863.23
		Fuel Expense	\$970.20	\$909.05	\$1,143.82	\$756.96
		Per-Mile Cost	\$3.18	\$3.02	\$3.37	\$3.11
	1,000 nm	Flight Time	3+49	3+41	3+56	3+58
		Direct Cost	\$3,088.88	\$3,010.77	\$3,413.01	\$3,005.74
		Fuel Expense	\$1,382.24	\$1,514.18	\$1,927.81	\$1,189.94
		Per-Mile Cost	\$3.09	\$3.01	\$3.41	\$3.01
Variable Costs (Hourly)	Fuel Expense	\$488.63	\$410.22	\$490.10	\$368.60	
	Maintenance Labor Expense	\$250.82	\$206.90	\$207.13	\$260.18	
	Parts Expense	\$115.04	\$118.11	\$89.17	\$116.29	
	Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30	\$81.30	
	Total Variable	\$935.79	\$816.53	\$867.70	\$826.36	
Fixed Costs (Annual)	Hull Insurance	\$12,500	\$10,150	\$5,075	\$10,875	
	Liability Insurance	\$7,125	\$4,875	\$4,625	\$4,625	
	Hull Insurance per \$100	\$2.00	\$1.45	\$0.70	\$1.45	
	Liability Insurance per \$M	\$285	\$195	\$185	\$185	
	Maintenance Software Programs	NA	\$3,613	\$5,781	NA	
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$33,219	\$42,192	\$35,433	\$31,558	
	Engine Overhaul	\$218,687	\$215,414	\$240,572	\$204,005	
	Overhaul Interval	5,400t	5,400t	3,600t	5,400t	
	Paint	\$34,779	\$36,704	\$26,735	\$21,751	
	Interior Refurbishment	\$53,121	\$62,202	\$89,557	\$23,269	
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	
Training	Pilot Initial (Per Pilot)	\$17,002	\$11,132	\$8,247	\$11,555	
	Maintenance Initial	\$4,981	\$7,743	\$5,936	\$4,982	
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Beechcraft		Twin Commander		Beechcraft	Twin Commander
	Model	King Air C90A	Twin Commander 980	King Air C90SE	Twin Commander 840	
	Category (1-6)	1	1	1	1	
	Aircraft Bluebook Retail Price (Model Year)	\$800,000 (1992)	\$805,000 (1981)	\$825,000 (2000)	\$825,000 (1984)	
Mission Costs	300 nm	Flight Time	1+20	1+21	1+20	1+11
		Direct Cost	\$954.88	\$1,202.61	\$988.40	\$1,034.17
		Fuel Expense	\$520.73	\$551.45	\$514.17	\$464.43
		Per-Mile Cost	\$3.18	\$4.01	\$3.29	\$3.45
	600 nm	Flight Time	2+36	2+22	2+37	2+17
		Direct Cost	\$1,863.84	\$2,022.81	\$1,942.09	\$1,916.29
		Fuel Expense	\$1,017.25	\$881.28	\$1,011.41	\$816.93
		Per-Mile Cost	\$3.11	\$3.37	\$3.24	\$3.19
	1,000 nm	Flight Time	4+19	3+40	4+18	3+45
		Direct Cost	\$3,094.90	\$3,106.93	\$3,190.90	\$3,095.61
		Fuel Expense	\$1,689.34	\$1,338.36	\$1,661.50	\$1,290.09
		Per-Mile Cost	\$3.09	\$3.11	\$3.19	\$3.10
	Variable Costs (Hourly)	Fuel Expense	\$390.55	\$408.49	\$385.62	\$392.47
		Maintenance Labor Expense	\$160.59	\$276.06	\$148.52	\$275.80
		Parts Expense	\$83.73	\$124.98	\$125.86	\$124.37
		Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30	\$81.30
Total Variable		\$716.16	\$890.82	\$741.30	\$873.94	
Fixed Costs (Annual)	Hull Insurance	\$5,600	\$11,673	\$5,775	\$11,963	
	Liability Insurance	\$4,625	\$4,625	\$4,625	\$4,625	
	Hull Insurance per \$100	\$0.70	\$1.45	\$0.70	\$1.45	
	Liability Insurance per \$M	\$185	\$185	\$185	\$185	
	Maintenance Software Programs	\$5,781	NA	\$5,781	NA	
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$41,998	\$31,046	\$41,998	\$31,558	
	Engine Overhaul	\$247,346	\$206,514	\$248,477	\$211,229	
	Overhaul Interval	3,600t	5,400t	3,600t	5,400t	
	Paint	\$30,700	\$21,751	\$30,700	\$33,306	
	Interior Refurbishment	\$71,964	\$23,269	\$79,796	\$58,229	
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	
Training	Pilot Initial (Per Pilot)	\$8,468	\$10,892	\$9,177	\$10,523	
	Maintenance Initial	\$5,936	\$4,914	\$5,936	\$4,982	
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Cessna		Beechcraft		Beechcraft		Piper Aircraft
	Model	Conquest I	King Air F90-1	King Air C90B	King Air C90B	King Air C90B	Cheyenne IIIA
	Category (1-6)	1	1	1	1	1	1
	Aircraft Bluebook Retail Price (Model Year)	\$900,000 (1986)	\$925,000 (1986)	\$950,000 (1994)	\$950,000 (1994)	\$950,000 (1994)	\$975,000 (1991)
Mission Costs	300 nm	Flight Time	1+18	1+11	1+21	1+21	1+08
		Direct Cost	\$865.57	\$1,143.25	\$1,129.60	\$1,129.60	\$1,071.94
		Fuel Expense	\$421.99	\$579.97	\$519.99	\$519.99	\$547.78
		Per-Mile Cost	\$2.89	\$3.81	\$3.77	\$3.77	\$3.57
	600 nm	Flight Time	2+29	2+20	2+38	2+38	2+09
		Direct Cost	\$1,655.02	\$2,256.93	\$2,128.88	\$2,128.88	\$2,035.82
		Fuel Expense	\$807.67	\$1,146.24	\$939.77	\$939.77	\$1,041.45
		Per-Mile Cost	\$2.76	\$3.76	\$3.55	\$3.55	\$3.39
	1,000 nm	Flight Time	4+02	3+56	4+25	4+25	3+31
		Direct Cost	\$2,685.33	\$3,804.22	\$3,695.48	\$3,695.48	\$3,329.73
		Fuel Expense	\$1,309.11	\$1,931.92	\$1,701.08	\$1,701.08	\$1,703.29
		Per-Mile Cost	\$2.69	\$3.80	\$3.70	\$3.70	\$3.33
Variable Costs (Hourly)	Fuel Expense	\$324.61	\$490.11	\$385.18	\$385.18	\$385.18	\$483.34
	Maintenance Labor Expense	\$158.90	\$249.03	\$180.67	\$180.67	\$180.67	\$265.72
	Parts Expense	\$101.01	\$145.68	\$189.60	\$189.60	\$189.60	\$115.47
	Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30	\$81.30	\$81.30	\$81.30
	Total Variable	\$665.82	\$966.12	\$836.74	\$836.74	\$836.74	\$945.83
Fixed Costs (Annual)	Hull Insurance	\$6,300	\$6,475	\$6,650	\$6,650	\$6,650	\$14,138
	Liability Insurance	\$4,625	\$4,625	\$4,625	\$4,625	\$4,625	\$4,625
	Hull Insurance per \$100	\$0.70	\$0.70	\$0.70	\$0.70	\$0.70	\$1.45
	Liability Insurance per \$M	\$185	\$185	\$185	\$185	\$185	\$185
	Maintenance Software Programs	\$1,549	\$5,781	\$5,781	\$5,781	\$5,781	\$3,613
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	\$3,121	\$3,121
Periodic Costs	Mid-Life/Hot-Section Inspection	\$33,670	\$35,433	\$41,998	\$41,998	\$41,998	\$38,755
	Engine Overhaul	\$236,692	\$240,572	\$248,477	\$248,477	\$248,477	\$307,665
	Overhaul Interval	3,500t	3,600t	3,600t	3,600t	3,600t	3,600t
	Paint	\$32,853	\$33,759	\$30,700	\$30,700	\$30,700	\$37,044
	Interior Refurbishment	\$62,202	\$77,639	\$71,964	\$71,964	\$71,964	\$67,764
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248	\$23,248
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	\$40,512	\$40,512
Training	Pilot Initial (Per Pilot)	\$7,072	\$8,248	\$8,251	\$8,251	\$8,251	\$8,474
	Maintenance Initial	\$4,104	\$5,678	\$5,936	\$5,936	\$5,936	\$5,758
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	\$2,508	\$2,508

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Eclipse Aviation		Beechcraft	Socata TBM S.A.	Twin Commander
	Model	Eclipse 500	King Air B200SE	TBM 700B	Twin Commander 1000
	Category (1-6)	1	1	1	1
	Aircraft Bluebook Retail Price (Model Year)	\$1,100,000 (2008)	\$1,225,000 (1995)	\$1,250,000 (2002)	\$1,250,000 (1985)
Mission Costs	300 nm	Flight Time	0+59	1+07	1+12
		Direct Cost	\$625.23	\$982.61	\$1,026.13
		Fuel Expense	\$372.99	\$577.03	\$460.75
		Per-Mile Cost	\$2.08	\$3.28	\$3.42
	600 nm	Flight Time	1+48	2+12	2+16
		Direct Cost	\$1,108.97	\$1,937.97	\$1,810.27
		Fuel Expense	\$647.24	\$1,138.93	\$742.31
		Per-Mile Cost	\$1.85	\$3.23	\$3.02
	1,000 nm	Flight Time	3+15*	3+38	3+42
		Direct Cost	\$1,667.41	\$3,200.97	\$2,890.78
		Fuel Expense	\$833.73	\$1,881.34	\$1,147.50
		Per-Mile Cost	\$1.67	\$3.20	\$2.89
Variable Costs (Hourly)	Fuel Expense	\$379.31	\$516.75	\$266.58	\$383.96
	Maintenance Labor Expense	\$95.39	\$177.73	\$92.93	\$304.87
	Parts Expense	\$79.82	\$104.17	\$71.33	\$84.99
	Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30	\$81.30
	Total Variable	\$635.83	\$879.95	\$512.14	\$855.11
Fixed Costs (Annual)	Hull Insurance	\$3,190	\$5,513	\$8,750	\$18,125
	Liability Insurance	\$4,375	\$4,375	\$5,500	\$4,625
	Hull Insurance per \$100	\$0.29	\$0.45	\$0.70	\$1.45
	Liability Insurance per \$M	\$175	\$175	\$220	\$185
	Maintenance Software Programs	\$2,323	\$5,781	NA	NA
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121
Periodic Costs	Mid-Life/Hot-Section Inspection	\$82,411	\$61,433	\$17,618	\$30,731
	Engine Overhaul	\$222,743	\$364,706	\$245,193	\$208,396
	Overhaul Interval	3,500t	3,600t	3,500t	5,400t
	Paint	\$39,870	\$36,365	\$30,474	\$32,173
	Interior Refurbishment	\$82,085	\$89,898	\$49,149	\$60,840
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512
Training	Pilot Initial (Per Pilot)	\$17,860	\$9,187	\$6,776	\$11,555
	Maintenance Initial	\$8,259	\$6,710	\$4,388	\$4,982
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,508 *3 passengers	\$2,508	\$2,508	\$2,508

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Piper Aircraft		Beechcraft	Cessna	Cessna	
	Model	Cheyenne 400LS	King Air 300LW	Conquest II	Grand Caravan	
	Category (1-6)	1	1	1	1	
	Aircraft Bluebook Retail Price (Model Year)	\$1,300,000 (1991)	\$1,400,000 (1994)	\$1,400,000 (1986)	\$1,425,000 (2008)	
Mission Costs	300 nm	Flight Time	1+00	1+01	1+10	1+43
		Direct Cost	\$1,011.69	\$1,061.04	\$894.91	\$1,280.00
		Fuel Expense	\$488.53	\$624.56	\$433.70	\$426.89
		Per-Mile Cost	\$3.37	\$3.54	\$2.98	\$4.27
	600 nm	Flight Time	1+54	2+00	2+12	3+23
		Direct Cost	\$1,924.04	\$1,934.45	\$1,689.11	\$2,708.72
		Fuel Expense	\$930.04	\$1,075.80	\$819.41	\$1,027.35
		Per-Mile Cost	\$3.21	\$3.22	\$2.82	\$4.51
	1,000 nm	Flight Time	3+07	3+18	3+35	NP
		Direct Cost	\$3,156.48	\$3,127.39	\$2,751.91	NP
		Fuel Expense	\$1,525.97	\$1,710.61	\$1,335.35	NP
		Per-Mile Cost	\$3.16	\$3.13	\$2.75	NP
	Variable Costs (Hourly)	Fuel Expense	\$488.53	\$614.32	\$371.75	\$248.68
		Maintenance Labor Expense	\$303.49	\$214.66	\$190.91	\$239.98
		Parts Expense	\$138.37	\$133.36	\$123.11	\$175.67
Miscellaneous Trip Expense		\$81.30	\$81.30	\$81.30	\$81.30	
Total Variable		\$1,011.69	\$1,043.65	\$767.06	\$745.63	
Fixed Costs (Annual)	Hull Insurance	\$18,850	\$6,300	\$9,800	\$9,975	
	Liability Insurance	\$4,625	\$4,375	\$4,625	\$4,625	
	Hull Insurance per \$100	\$1.45	\$0.45	\$0.70	\$0.70	
	Liability Insurance per \$M	\$185	\$175	\$185	\$185	
	Maintenance Software Programs	NA	\$5,781	\$1,549	\$5,952	
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$39,862	\$39,746	\$41,541	\$40,469	
	Engine Overhaul	\$203,893	\$379,396	\$217,485	\$326,884	
	Overhaul Interval	3,000t	3,600t	5,000t	3,600t	
	Paint	\$36,931	\$32,739	\$32,853	\$31,493	
	Interior Refurbishment	\$67,764	\$111,691	\$65,267	\$106,016	
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	
Training	Pilot Initial (Per Pilot)	\$8,061	\$15,006	\$6,972	\$7,999	
	Maintenance Initial	\$5,130	\$6,065	\$5,292	\$5,771	
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

		Socata TBM S.A.	Piaggio Aero	Pilatus	Socata	
General	Model	TBM 700C2	Avanti P180	PC-12	TBM 850	
	Category (1-6)	1	1	1	1	
	Aircraft Bluebook Retail Price (Model Year)	\$1,450,000 (2006)	\$1,900,000 (2002)	\$2,300,000 (2005)	\$2,400,000 (2013)	
Mission Costs	300 nm	Flight Time	1+10	0+53	1+15	1+01
		Direct Cost	\$560.83	\$863.12	\$816.39	\$958.77
		Fuel Expense	\$317.42	\$481.22	\$356.18	\$584.87
		Per-Mile Cost	\$1.87	\$2.88	\$2.72	\$3.20
	600 nm	Flight Time	2+12	1+44	2+25	1+59
		Direct Cost	\$1,047.73	\$1,548.01	\$1,578.68	\$1,704.83
		Fuel Expense	\$588.74	\$798.63	\$688.94	\$975.41
		Per-Mile Cost	\$1.75	\$2.58	\$2.63	\$2.84
	1,000 nm	Flight Time	3+33	3+01	4+00	3+15
		Direct Cost	\$1,684.83	\$2,420.25	\$2,612.10	\$2,739.67
		Fuel Expense	\$944.18	\$1,116.03	\$1,139.43	\$1,544.41
		Per-Mile Cost	\$1.68	\$2.42	\$2.61	\$2.74
	Variable Costs (Hourly)	Fuel Expense	\$272.08	\$544.78	\$284.94	\$575.28
		Maintenance Labor Expense	\$86.54	\$154.80	\$150.76	\$146.53
		Parts Expense	\$40.79	\$196.23	\$136.11	\$139.95
Miscellaneous Trip Expense		\$81.30	\$81.30	\$81.30	\$81.30	
Total Variable		\$480.71	\$977.12	\$653.11	\$943.06	
Fixed Costs (Annual)	Hull Insurance	\$10,150	\$23,040	\$14,490	\$10,800	
	Liability Insurance	\$5,500	\$4,550	\$5,500	\$4,375	
	Hull Insurance per \$100	\$0.70	\$0.48	\$0.63	\$0.45	
	Liability Insurance per \$M	\$220	\$182	\$220	\$175	
	Maintenance Software Programs	NA	\$5,575	\$2,581	\$5,781	
	Miscellaneous Services	\$3,121	\$3,121	\$3,121	\$3,121	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$18,774	\$17,472	\$20,007	\$56,884	
	Engine Overhaul	\$244,928	\$265,294	\$336,952	\$391,337	
	Overhaul Interval	3,500t	3,600t	3,500t	3,500t	
	Paint	\$30,474	\$33,756	\$33,193	\$36,365	
	Interior Refurbishment	\$49,149	\$88,073	\$65,267	\$89,898	
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248	\$23,248	
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496	\$65,496	
	First Officer Salary	\$40,512	\$40,512	\$40,512	\$40,512	
Training	Pilot Initial (Per Pilot)	\$6,808	\$11,396	\$12,054	\$9,559	
	Maintenance Initial	\$4,388	\$5,960	\$4,646	\$9,046	
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610	\$15,610	
	Miscellaneous Office Expense	\$2,508	\$2,508	\$2,508	\$2,508	

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 1 – Turboprops and Jets Under 10,000 lb.

General	Eclipse Aerospace		Pilatus	Beechcraft
	Model	Total Eclipse 500	PC-12/47	King Air B200
	Category (1-6)	1	1	1
	Aircraft Bluebook Retail Price (Model Year)	\$2,600,000 (2013)	\$2,600,000 (2008)	\$3,200,000 (2012)
Mission Costs	300 nm	Flight Time	0+58	1+07
		Direct Cost	\$526.06	\$990.65
		Fuel Expense	\$333.49	\$579.97
		Per-Mile Cost	\$1.75	\$3.30
	600 nm	Flight Time	1+48	2+13
		Direct Cost	\$1,005.82	\$1,785.75
		Fuel Expense	\$647.24	\$970.51
		Per-Mile Cost	\$1.68	\$2.98
	1,000 nm	Flight Time	3+15*	3+39
		Direct Cost	\$1,481.16	\$2,881.88
		Fuel Expense	\$833.74	\$1,539.51
		Per-Mile Cost	\$1.48	\$2.88
Variable Costs (Hourly)	Fuel Expense	\$344.99	\$284.94	\$519.38
	Maintenance Labor Expense	\$67.65	\$119.50	\$146.53
	Parts Expense	\$50.26	\$81.73	\$139.95
	Miscellaneous Trip Expense	\$81.30	\$81.30	\$81.30
	Total Variable	\$544.20	\$567.48	\$887.15
Fixed Costs (Annual)	Hull Insurance	\$9,620	\$16,380	\$14,400
	Liability Insurance	\$5,750	\$5,500	\$4,375
	Hull Insurance per \$100	\$0.37	\$0.63	\$0.45
	Liability Insurance per \$M	\$230	\$220	\$175
	Maintenance Software Programs	\$2,323	\$2,581	\$5,781
	Miscellaneous Services	\$3,121	\$3,121	\$3,121
Periodic Costs	Mid-Life/Hot-Section Inspection	\$67,924	\$18,528	\$56,884
	Engine Overhaul	\$157,826	\$336,952	\$391,337
	Overhaul Interval	3,500t	3,500t	3,600t
	Paint	\$33,697	\$33,193	\$36,365
	Interior Refurbishment	\$37,456	\$65,267	\$89,898
	Modernization/Modification/Upgrade	\$23,248	\$23,248	\$23,248
Personnel Costs	Captain Salary	\$65,496	\$65,496	\$65,496
	First Officer Salary	\$40,512	\$40,512	\$40,512
Training	Pilot Initial (Per Pilot)	\$17,860	\$12,054	\$9,559
	Maintenance Initial	\$5,936	\$4,646	\$9,046
Facilities (Annual)	Hangar/Office Lease Expense	\$15,610	\$15,610	\$15,610
	Miscellaneous Office Expense	\$2,508 *3 passengers	\$2,508	\$2,508

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Mitsubishi		Bombardier		Bombardier		Cessna
	Model	Diamond IA	Learjet 24F	Learjet 25D	Learjet 25D	Learjet 25D	Citation I
	Category (1-6)	2	2	2	2	2	2
	Aircraft Bluebook Retail Price (Model Year)	\$200,000 (1985)	\$245,000 (1978)	\$340,000 (1984)	\$340,000 (1984)	\$340,000 (1984)	\$440,000 (1982)
Mission Costs	300 nm	Flight Time	0+50	0+59	0+44	0+44	0+58
		Direct Cost	\$1,249.67	\$1,701.72	\$1,642.38	\$1,642.38	\$1,189.65
		Fuel Expense	\$779.59	\$1,053.87	\$1,131.41	\$1,131.41	\$798.65
		Per-Mile Cost	\$4.17	\$5.67	\$5.47	\$5.47	\$3.97
	600 nm	Flight Time	1+35	1+40	1+27	1+27	1+50
		Direct Cost	\$2,238.10	\$2,884.01	\$2,903.05	\$2,903.05	\$2,082.10
		Fuel Expense	\$1,344.95	\$1,785.95	\$1,892.72	\$1,892.72	\$1,340.54
		Per-Mile Cost	\$3.73	\$4.81	\$4.84	\$4.84	\$3.47
	1,000 nm	Flight Time	2+35	2+45	2+06	2+06	3+05
		Direct Cost	\$3,652.00	\$4,758.38	\$4,204.30	\$4,204.30	\$3,501.91
		Fuel Expense	\$2,194.76	\$2,946.58	\$2,741.07	\$2,741.07	\$2,254.73
		Per-Mile Cost	\$3.65	\$4.76	\$4.20	\$4.20	\$3.50
Variable Costs (Hourly)	Fuel Expense	\$417.57	\$1,071.57	\$1,305.33	\$1,305.33	\$1,305.33	\$731.20
	Maintenance Labor Expense	\$277.43	\$231.19	\$332.74	\$332.74	\$332.74	\$178.96
	Parts Expense	\$172.43	\$313.41	\$249.79	\$249.79	\$249.79	\$111.29
	Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24	\$114.24	\$114.24	\$114.24
	Total Variable	\$981.66	\$1,730.40	\$2,002.10	\$2,002.10	\$2,002.10	\$1,135.69
Fixed Costs (Annual)	Hull Insurance	\$700	\$4,900	\$6,800	\$6,800	\$6,800	\$1,452
	Liability Insurance	\$15,500	\$23,000	\$23,000	\$23,000	\$23,000	\$16,000
	Hull Insurance per \$100	\$0.35	\$2.00	\$2.00	\$2.00	\$2.00	\$0.33
	Liability Insurance per \$M	\$155	\$230	\$230	\$230	\$230	\$160
	Maintenance Software Programs	\$3,586	\$3,500	\$3,584	\$3,584	\$3,584	\$1,755
	Miscellaneous Services	\$6,030	\$6,030	\$6,030	\$6,030	\$6,030	\$6,030
Periodic Costs	Mid-Life/Hot-Section Inspection	\$57,961	\$58,685	\$58,685	\$58,685	\$58,685	\$60,900
	Engine Overhaul	\$347,275	\$351,005	\$354,327	\$354,327	\$354,327	\$328,860
	Overhaul Interval	3,500t	5,000t	5,000t	5,000t	5,000t	3,000t
	Paint	\$43,615	\$37,837	\$41,193	\$41,193	\$41,193	\$37,271
	Interior Refurbishment	\$102,838	\$97,162	\$108,622	\$108,622	\$108,622	\$89,898
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802	\$32,802	\$32,802
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579	\$76,579	\$76,579	\$76,579
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890	\$55,890	\$55,890
Training	Pilot Initial (Per Pilot)	\$20,990	\$17,486	\$17,389	\$17,389	\$17,389	\$12,116
	Maintenance Initial	\$7,271	\$6,002	\$5,920	\$5,920	\$5,920	\$4,985
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314	\$5,314	\$5,314

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Dassault		Beechcraft		Cessna		Bombardier	
	Model	Falcon 10	Beechjet 400A	Citation II SP	Learjet 36A			
	Category (1-6)	2	2	2	2			
	Aircraft Bluebook Retail Price (Model Year)	\$570,000 (1983)	\$600,000 (1992)	\$725,000 (1987)	\$750,000 (1984)			
Mission Costs	300 nm	Flight Time	0+47	0+46	0+55	0+45		
		Direct Cost	\$1,481.28	\$1,092.85	\$1,219.51	\$1,258.57		
		Fuel Expense	\$830.06	\$749.65	\$831.53	\$814.72		
		Per-Mile Cost	\$4.94	\$3.64	\$4.07	\$4.20		
	600 nm	Flight Time	1+24	1+27	1+45	1+27		
		Direct Cost	\$2,615.59	\$1,983.81	\$2,157.29	\$2,088.93		
		Fuel Expense	\$1,451.72	\$1,334.71	\$1,416.59	\$1,230.83		
		Per-Mile Cost	\$4.36	\$3.31	\$3.60	\$3.48		
	1,000 nm	Flight Time	2+23	2+24	2+55	2+23		
		Direct Cost	\$4,065.68	\$3,103.12	\$3,595.28	\$3,327.29		
		Fuel Expense	\$2,084.33	\$2,028.75	\$2,360.78	\$1,916.85		
		Per-Mile Cost	\$4.07	\$3.10	\$3.60	\$3.33		
Variable Costs (Hourly)	Fuel Expense	\$1,036.95	\$331.60	\$809.48	\$848.85			
	Maintenance Labor Expense	\$440.60	\$188.38	\$195.97	\$234.35			
	Parts Expense	\$276.50	\$145.04	\$113.06	\$243.21			
	Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24	\$114.24			
	Total Variable	\$1,868.28	\$779.26	\$1,232.74	\$1,440.64			
Fixed Costs (Annual)	Hull Insurance	\$1,881	\$1,980	\$2,393	\$2,475			
	Liability Insurance	\$15,000	\$16,000	\$16,000	\$16,000			
	Hull Insurance per \$100	\$0.33	\$0.33	\$0.33	\$0.33			
	Liability Insurance per \$M	\$150	\$160	\$160	\$160			
	Maintenance Software Programs	\$3,613	\$5,678	\$1,755	\$6,710			
	Miscellaneous Services	\$6,030	\$6,030	\$6,030	\$6,030			
Periodic Costs	Mid-Life/Hot-Section Inspection	\$105,302	\$43,858	\$49,827	\$94,118			
	Engine Overhaul	\$261,226	\$284,060	\$317,182	\$260,574			
	Overhaul Interval	4,200c	3,600t	3,500t	4,200c			
	Paint	\$43,841	\$42,482	\$42,482	\$39,990			
	Interior Refurbishment	\$100,340	\$103,178	\$106,243	\$87,628			
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802			
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579	\$76,579			
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890			
Training	Pilot Initial (Per Pilot)	\$12,934	\$21,396	\$16,208	\$16,615			
	Maintenance Initial	\$5,381	\$7,711	\$6,890	\$5,678			
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830			
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314			

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Dassault		Cessna		Fairchild Aerospace		Cessna
	Model	Falcon 100	Citation S/II		Merlin IVC		Citation II
	Category (1-6)	2	2		2		2
	Aircraft Bluebook Retail Price (Model Year)	\$775,000 (1990)	\$800,000 (1988)		\$920,000 (1983)		\$975,000 (1994)
Mission Costs	300 nm	Flight Time	0+47	0+53	1+07		0+55
		Direct Cost	\$1,397.89	\$1,355.68	\$1,128.24		\$1,328.45
		Fuel Expense	\$837.41	\$839.57	\$637.75		\$868.84
		Per-Mile Cost	\$4.66	\$4.52	\$3.76		\$4.43
	600 nm	Flight Time	1+25	1+39	2+14		1+45
		Direct Cost	\$2,479.23	\$2,394.56	\$2,259.18		\$2,536.58
		Fuel Expense	\$1,465.59	\$1,430.50	\$1,278.19		\$1,659.14
		Per-Mile Cost	\$4.13	\$3.99	\$3.77		\$4.23
	1,000 nm	Flight Time	2+26	2+45	3+46		2+55
		Direct Cost	\$4,258.36	\$3,990.94	\$3,806.09		\$4,227.62
		Fuel Expense	\$2,517.28	\$2,384.18	\$2,151.59		\$2,765.21
		Per-Mile Cost	\$4.26	\$3.99	\$3.81		\$4.23
Variable Costs (Hourly)	Fuel Expense	\$1,034.53	\$866.97		\$410.97		\$948.08
	Maintenance Labor Expense	\$339.78	\$221.39		\$206.90		\$204.47
	Parts Expense	\$261.50	\$248.65		\$118.11		\$182.69
	Miscellaneous Trip Expense	\$114.24	\$114.24		\$114.24		\$114.24
	Total Variable	\$1,750.05	\$1,451.25		\$850.22		\$1,449.48
Fixed Costs (Annual)	Hull Insurance	\$2,558	\$2,640		\$13,340		\$3,218
	Liability Insurance	\$16,000	\$16,000		\$18,500		\$16,000
	Hull Insurance per \$100	\$0.33	\$0.33		\$1.45		\$0.33
	Liability Insurance per \$M	\$160	\$160		\$185		\$160
	Maintenance Software Programs	\$3,677	\$1,755		\$3,613		\$1,755
	Miscellaneous Services	\$6,030	\$6,030		\$6,030		\$6,030
Periodic Costs	Mid-Life/Hot-Section Inspection	\$105,302	\$49,105		\$39,646		\$49,827
	Engine Overhaul	\$261,226	\$312,587		\$214,517		\$317,182
	Overhaul Interval	4,200c	3,500t		5,400t		3,500t
	Paint	\$43,841	\$41,978		\$55,057		\$42,595
	Interior Refurbishment	\$100,340	\$94,972		\$106,810		\$96,368
	Modernization/Modification/Upgrade	\$32,802	\$32,802		\$32,802		\$32,802
Personnel Costs	Captain Salary	\$76,579	\$76,579		\$76,579		\$76,579
	First Officer Salary	\$55,890	\$55,890		\$55,890		\$55,890
Training	Pilot Initial (Per Pilot)	\$18,193	\$13,984		\$11,132		\$14,969
	Maintenance Initial	\$6,900	\$6,890		\$7,743		\$6,890
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830		\$19,830		\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314		\$5,314		\$5,314

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Cessna		Beechcraft		Bombardier		Cessna					
	Model		Citation V		King Air 300		Learjet 35A		CitationJet			
	Category (1-6)		2		2		2		2			
	Aircraft Bluebook Retail Price (Model Year)		\$975,000 (1994)		\$1,100,000 (1990)		\$1,150,000 (1992)		\$1,300,000 (1999)			
Mission Costs	300 nm	Flight Time	0+50	1+02	0+44	0+55						
		Direct Cost	\$1,468.61	\$1,153.66	\$1,187.40	\$1,035.14						
		Fuel Expense	\$882.00	\$621.67	\$765.72	\$609.95						
		Per-Mile Cost	\$4.90	\$3.85	\$3.96	\$3.45						
	600 nm	Flight Time	1+36	2+01	1+24	1+46						
		Direct Cost	\$2,552.38	\$2,276.11	\$2,158.73	\$1,824.29						
		Fuel Expense	\$1,426.09	\$1,237.87	\$1,353.72	\$1,004.84						
		Per-Mile Cost	\$4.25	\$3.79	\$3.60	\$3.04						
	1,000 nm	Flight Time	2+36	3+18	2+20	3+01						
		Direct Cost	\$4,147.84	\$3,688.74	\$3,597.88	\$3,114.98						
		Fuel Expense	\$2,317.63	\$1,989.81	\$2,256.19	\$1,715.73						
		Per-Mile Cost	\$4.15	\$3.69	\$3.60	\$3.11						
	Variable Costs (Hourly)	Fuel Expense		\$891.31	\$364.74	\$966.95	\$568.78					
		Maintenance Labor Expense		\$337.76	\$267.83	\$240.18	\$221.68					
		Parts Expense		\$251.93	\$132.76	\$220.59	\$127.92					
Miscellaneous Trip Expense		\$114.24	\$114.24	\$114.24	\$114.24							
Total Variable		\$1,595.24	\$879.57	\$1,541.95	\$1,032.62							
Fixed Costs (Annual)	Hull Insurance		\$3,218	\$4,950	\$3,795	\$4,290						
	Liability Insurance		\$16,000	\$17,500	\$16,000	\$16,000						
	Hull Insurance per \$100		\$0.33	\$0.45	\$0.33	\$0.33						
	Liability Insurance per \$M		\$160	\$175	\$160	\$160						
	Maintenance Software Programs		\$1,755	\$5,781	\$6,710	\$1,755						
	Miscellaneous Services		\$6,030	\$6,030	\$6,030	\$6,030						
Periodic Costs	Mid-Life/Hot-Section Inspection		\$42,875	\$39,746	\$94,118	\$55,278						
	Engine Overhaul		\$496,644	\$379,396	\$260,574	\$255,635						
	Overhaul Interval		3500t	3,600t	4,200c	3,500t						
	Paint		\$44,861	\$43,290	\$44,748	\$38,290						
	Interior Refurbishment		\$103,292	\$106,810	\$102,951	\$98,297						
	Modernization/Modification/Upgrade		\$32,802	\$32,802	\$32,802	\$32,802						
Personnel Costs	Captain Salary		\$76,579	\$76,579	\$76,579	\$76,579						
	First Officer Salary		\$55,890	\$55,890	\$55,890	\$55,890						
Training	Pilot Initial (Per Pilot)		\$14,924	\$15,006	\$15,872	\$15,208						
	Maintenance Initial		\$6,795	\$6,065	\$6,717	\$5,374						
Facilities (Annual)	Hangar/Office Lease Expense		\$19,830	\$19,830	\$19,830	\$19,830						
	Miscellaneous Office Expense		\$5,314	\$5,314	\$5,314	\$5,314						

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 2 – Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Bombardier		Beechcraft		Cessna	
	Model	Learjet 31A	Premier I	Citation Ultra	CJ1	
	Category (1-6)	2	2	2	2	
	Aircraft Bluebook Retail Price (Model Year)	\$1,450,000 (2003)	\$1,500,000 (2005)	\$1,500,000 (1999)	\$1,900,000 (2005)	
Mission Costs	300 nm	Flight Time	0+44	0+48	0+48	0+54
		Direct Cost	\$1,150.13	\$1,165.29	\$1,330.25	\$1,241.48
		Fuel Expense	\$753.28	\$894.45	\$894.45	\$894.45
		Per-Mile Cost	\$3.83	\$3.88	\$4.43	\$4.14
	600 nm	Flight Time	1+25	1+33	1+32	1+47
		Direct Cost	\$1,998.22	\$1,572.77	\$2,301.61	\$1,699.83
		Fuel Expense	\$1,231.57	\$1,048.01	\$1,466.33	\$1,012.20
		Per-Mile Cost	\$3.33	\$2.62	\$3.84	\$2.83
	1,000 nm	Flight Time	2+20	2+30	2+33	3+00
		Direct Cost	\$3,291.47	\$2,478.00	\$3,827.40	\$2,859.32
		Fuel Expense	\$2,028.75	\$1,631.63	\$2,438.30	\$1,702.56
		Per-Mile Cost	\$3.29	\$2.48	\$3.83	\$2.86
	Variable Costs (Hourly)	Fuel Expense	\$869.34	\$467.83	\$956.30	\$567.59
		Maintenance Labor Expense	\$283.07	\$105.11	\$241.20	\$171.54
		Parts Expense	\$143.86	\$119.21	\$189.31	\$99.81
		Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24	\$114.24
Total Variable		\$1,410.51	\$806.38	\$1,501.05	\$953.17	
Fixed Costs (Annual)	Hull Insurance	\$4,785	\$3,750	\$4,950	\$6,270	
	Liability Insurance	\$16,000	\$16,500	\$16,000	\$16,000	
	Hull Insurance per \$100	\$0.33	\$0.25	\$0.33	\$0.33	
	Liability Insurance per \$M	\$160	\$165	\$160	\$160	
	Maintenance Software Programs	\$1,729	\$1,755	\$1,755	\$1,755	
	Miscellaneous Services	\$6,030	\$6,030	\$6,030	\$6,030	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$80,942	\$65,793	\$42,875	\$55,278	
	Engine Overhaul	\$290,397	\$300,619	\$496,644	\$255,635	
	Overhaul Interval	4,200c	3,500t	3,500t	3,500t	
	Paint	\$45,541	\$44,861	\$44,861	\$38,290	
	Interior Refurbishment	\$102,497	\$102,611	\$103,292	\$98,184	
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802	\$32,802	
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579	\$76,579	
	First Officer Salary	\$55,890	\$55,890	\$55,890	\$55,890	
Training	Pilot Initial (Per Pilot)	\$20,424	\$20,727	\$22,501	\$19,877	
	Maintenance Initial	\$5,805	\$8,081	\$6,308	\$5,745	
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830	\$19,830	
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314	\$5,314	

2016 Operations Planning Guide

Out-of-Production Aircraft — Category 2 — Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Hawker Beechcraft		Cessna	Hawker Beechcraft
	Model	Hawker 400XP	Citation Bravo	Premier IA
	Category (1-6)	2	2	2
	Aircraft Bluebook Retail Price (Model Year)	\$2,450,000 (2010)	\$2,500,000 (2006)	\$2,600,000 (2012)
Mission Costs	300 nm	Flight Time	0+46	0+48
		Direct Cost	\$1,197.90	\$914.46
		Fuel Expense	\$894.45	\$656.75
		Per-Mile Cost	\$3.99	\$3.05
	600 nm	Flight Time	1+27	1+33
		Direct Cost	\$1,934.22	\$1,547.34
		Fuel Expense	\$1,360.30	\$1,048.01
		Per-Mile Cost	\$3.22	\$2.58
	1,000 nm	Flight Time	2+24	2+30
		Direct Cost	\$2,975.01	\$2,436.99
		Fuel Expense	\$2,025.07	\$1,631.63
		Per-Mile Cost	\$2.98	\$2.44
Variable Costs (Hourly)	Fuel Expense	\$938.14	\$736.50	\$676.14
	Maintenance Labor Expense	\$155.67	\$173.51	\$105.57
	Parts Expense	\$125.90	\$232.38	\$102.34
	Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24
	Total Variable	\$1,333.94	\$1,256.63	\$998.29
Fixed Costs (Annual)	Hull Insurance	\$6,125	\$8,250	\$6,500
	Liability Insurance	\$16,500	\$16,000	\$16,500
	Hull Insurance per \$100	\$0.25	\$0.33	\$0.25
	Liability Insurance per \$M	\$165	\$160	\$165
	Maintenance Software Programs	\$5,781	\$1,755	\$1,755
	Miscellaneous Services	\$6,030	\$6,030	\$6,030
Periodic Costs	Mid-Life/Hot-Section Inspection	\$58,903	\$82,734	\$64,314
	Engine Overhaul	\$337,988	\$612,568	\$293,861
	Overhaul Interval	3,600t	4,000t	3,500t
	Paint	\$43,615	\$42,595	\$44,861
	Interior Refurbishment	\$102,951	\$96,368	\$102,691
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579
	First Officer Salary	\$55,890	\$55,890	\$55,890
Training	Pilot Initial (Per Pilot)	\$21,467	\$16,141	\$25,396
	Maintenance Initial	\$9,309	\$6,986	\$8,081
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314

2016 Operations Planning Guide

Out-of-Production Aircraft — Category 2 — Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Cessna		Cessna	Cessna
	Model	CJ2	Citation CJ1+	Citation Encore
	Category (1-6)	2	2	2
	Aircraft Bluebook Retail Price (Model Year)	\$2,800,000 (2005)	\$3,200,000 (2011)	\$3,500,000 (2006)
Mission Costs	300 nm	Flight Time	0+51	0+53
		Direct Cost	\$1,278.16	\$927.54
		Fuel Expense	\$894.45	\$620.91
		Per-Mile Cost	\$4.26	\$3.09
	600 nm	Flight Time	1+37	1+41
		Direct Cost	\$1,825.34	\$1,589.20
		Fuel Expense	\$1,095.54	\$1,004.87
		Per-Mile Cost	\$3.04	\$2.65
	1,000 nm	Flight Time	2+40	2+51
		Direct Cost	\$3,010.94	\$2,481.26
		Fuel Expense	\$1,807.15	\$1,491.94
		Per-Mile Cost	\$3.01	\$2.48
Variable Costs (Hourly)	Fuel Expense	\$677.65	\$596.95	\$883.87
	Maintenance Labor Expense	\$182.42	\$128.21	\$249.59
	Parts Expense	\$154.76	\$104.68	\$235.00
	Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24
	Total Variable	\$1,129.07	\$944.08	\$1,482.70
Fixed Costs (Annual)	Hull Insurance	\$9,240	\$8,000	\$11,550
	Liability Insurance	\$16,000	\$16,500	\$16,000
	Hull Insurance per \$100	\$0.33	\$0.25	\$0.33
	Liability Insurance per \$M	\$160	\$165	\$160
	Maintenance Software Programs	\$1,755	\$1,755	\$1,755
	Miscellaneous Services	\$6,030	\$6,030	\$6,030
Periodic Costs	Mid-Life/Hot-Section Inspection	\$65,793	\$56,548	\$89,689
	Engine Overhaul	\$300,620	\$257,905	\$647,606
	Overhaul Interval	3,500t	3,500t	5,000t
	Paint	\$39,763	\$38,290	\$44,861
	Interior Refurbishment	\$101,135	\$98,184	\$103,292
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579
	First Officer Salary	\$55,890	\$55,890	\$55,890
Training	Pilot Initial (Per Pilot)	\$18,378	\$16,737	\$23,196
	Maintenance Initial	\$5,844	\$5,301	\$6,560
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314

2016 Operations Planning Guide

Out-of-Production Aircraft — Category 2 — Turboprops Over 12,500 lb. - Jets Under 20,000 lb.

General	Hawker Beechcraft		Cessna	Cessna
	Model	King Air 350	Citation Encore+	Citation CJ3
	Category (1-6)	2	2	2
	Aircraft Bluebook Retail Price (Model Year)	\$3,500,000 (2009)	\$4,500,000 (2009)	\$6,000,000 (2014)
Mission Costs	300 nm	Flight Time	1+02	0+47
		Direct Cost	\$1,293.49	\$1,246.99
		Fuel Expense	\$894.45	\$894.45
		Per-Mile Cost	\$4.31	\$4.16
	600 nm	Flight Time	2+01	1+31
		Direct Cost	\$1,852.40	\$2,009.97
		Fuel Expense	\$1,073.61	\$1,327.39
		Per-Mile Cost	\$3.09	\$3.35
	1,000 nm	Flight Time	3+26	2+31
		Direct Cost	\$2,860.96	\$3,109.46
		Fuel Expense	\$1,535.09	\$1,976.82
		Per-Mile Cost	\$2.86	\$3.11
Variable Costs (Hourly)	Fuel Expense	\$532.37	\$875.20	\$665.00
	Maintenance Labor Expense	\$141.76	\$207.42	\$109.00
	Parts Expense	\$130.18	\$128.39	\$114.86
	Miscellaneous Trip Expense	\$114.24	\$114.24	\$114.24
	Total Variable	\$918.54	\$1,325.26	\$1,003.10
Fixed Costs (Annual)	Hull Insurance	\$14,000	\$11,250	\$13,800
	Liability Insurance	\$15,000	\$16,500	\$16,500
	Hull Insurance per \$100	\$0.40	\$0.25	\$0.23
	Liability Insurance per \$M	\$150	\$165	\$165
	Maintenance Software Programs	\$5,781	\$1,755	\$1,755
	Miscellaneous Services	\$6,030	\$6,030	\$6,030
Periodic Costs	Mid-Life/Hot-Section Inspection	\$36,856	\$90,485	\$64,005
	Engine Overhaul	\$379,396	\$633,563	\$288,099
	Overhaul Interval	3,600t	5,000t	4,000t
	Paint	\$38,970	\$44,759	\$42,444
	Interior Refurbishment	\$106,697	\$103,292	\$105,069
	Modernization/Modification/Upgrade	\$32,802	\$32,802	\$32,802
Personnel Costs	Captain Salary	\$76,579	\$76,579	\$76,579
	First Officer Salary	\$55,890	\$55,890	\$55,890
Training	Pilot Initial (Per Pilot)	\$21,886	\$17,654	\$20,131
	Maintenance Initial	\$6,194	\$6,710	\$5,918
Facilities (Annual)	Hangar/Office Lease Expense	\$19,830	\$19,830	\$19,830
	Miscellaneous Office Expense	\$5,314	\$5,314	\$5,314

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Out-of-Production Aircraft — Category 3 — Jets 20,000 lb. to 30,000 lb.

		Rockwell	Israel Aircraft Industries	Israel Aircraft Industries	Hawker Beechcraft	
General	Model	Sabreliner 65	Westwind I	Westwind II	125-700 A	
	Category (1-6)	3	3	3	3	
	Aircraft Bluebook Retail Price (Model Year)	\$400,000 (1981)	\$450,000 (1987)	\$475,000 (1987)	\$550,000 (1984)	
Mission Costs	300 nm	Flight Time	0+51	0+50	0+47	0+52
		Direct Cost	\$1,647.81	\$1,691.84	\$1,627.35	\$1,967.06
		Fuel Expense	\$1,139.44	\$812.51	\$843.24	\$1,130.68
		Per-Mile Cost	\$5.49	\$5.64	\$5.42	\$6.56
	600 nm	Flight Time	1+38	1+34	1+32	1+39
		Direct Cost	\$2,688.93	\$3,105.59	\$2,979.29	\$3,744.42
		Fuel Expense	\$1,712.05	\$1,452.46	\$1,444.42	\$2,152.07
		Per-Mile Cost	\$4.48	\$5.18	\$4.97	\$6.24
	1,000 nm	Flight Time	2+42	2+32	2+31	2+44
		Direct Cost	\$4,344.89	\$5,009.07	\$4,890.20	\$6,203.13
		Fuel Expense	\$2,730.06	\$2,335.92	\$2,371.01	\$3,565.29
		Per-Mile Cost	\$4.34	\$5.01	\$4.89	\$6.20
	Variable Costs (Hourly)	Fuel Expense	\$1,048.20	\$927.10	\$942.01	\$1,304.28
		Maintenance Labor Expense	\$198.77	\$518.68	\$477.58	\$371.92
		Parts Expense	\$197.12	\$334.32	\$321.23	\$390.95
Miscellaneous Trip Expense		\$202.19	\$202.19	\$202.19	\$202.19	
Total Variable		\$1,646.28	\$1,982.29	\$1,943.01	\$2,269.35	
Fixed Costs (Annual)	Hull Insurance	\$7,600	\$2,160	\$2,280	\$2,805	
	Liability Insurance	\$44,000	\$30,000	\$30,000	\$36,000	
	Hull Insurance per \$100	\$1.90	\$0.48	\$0.48	\$0.51	
	Liability Insurance per \$M	\$220	\$150	\$150	\$180	
	Maintenance Software Programs	\$4,646	\$3,584	\$3,586	\$8,865	
	Miscellaneous Services	\$11,085	\$11,085	\$11,085	\$11,085	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$114,029	\$82,628	\$114,029	\$118,938	
	Engine Overhaul	\$296,211	\$235,169	\$296,211	\$334,158	
	Overhaul Interval	4,200c	4,200c	4,200c	4,200c	
	Paint	\$60,154	\$38,857	\$47,483	\$64,912	
	Interior Refurbishment	\$114,529	\$97,049	\$103,973	\$125,766	
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555	\$42,555	
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899	\$103,899	
	First Officer Salary	\$73,730	\$73,730	\$73,730	\$73,730	
Training	Pilot Initial (Per Pilot)	\$18,441	\$16,776	\$16,776	\$27,261	
	Maintenance Initial	\$5,550	\$5,385	\$6,064	\$9,153	
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345	\$34,345	
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268	\$10,268	

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Out-of-Production Aircraft — Category 3 — Jets 20,000 lb. to 30,000 lb.

General	Dassault		Gulfstream Aerospace		Cessna	Bombardier	
	Model	Falcon 20F	Astra	Citation III	Learjet 55		
	Category (1-6)	3	3	3	3		
	Aircraft Bluebook Retail Price (Model Year)	\$780,000 (1991)	\$850,000 (1990)	\$950,000 (1991)	\$1,000,000 (1986)		
Mission Costs	300 nm	Flight Time	0+53	0+41	0+44	0+45	
		Direct Cost	\$2,024.77	\$1,302.02	\$1,697.83	\$1,464.10	
		Fuel Expense	\$1,363.95	\$809.57	\$1,040.70	\$804.48	
		Per-Mile Cost	\$6.75	\$4.34	\$5.66	\$4.88	
	600 nm	Flight Time	1+40	1+27	1+25	1+28	
		Direct Cost	\$3,535.17	\$2,382.59	\$2,943.48	\$2,642.16	
		Fuel Expense	\$2,288.34	\$1,337.64	\$1,674.03	\$1,352.24	
		Per-Mile Cost	\$5.89	\$3.97	\$4.91	\$4.40	
	1,000 nm	Flight Time	2+42	2+28	2+22	2+25	
		Direct Cost	\$5,727.06	\$3,842.91	\$4,923.36	\$4,358.61	
		Fuel Expense	\$3,707.19	\$2,065.29	\$2,802.63	\$2,233.18	
		Per-Mile Cost	\$5.73	\$3.84	\$4.92	\$4.36	
	Variable Costs (Hourly)	Fuel Expense	\$1,373.00	\$922.51	\$1,181.67	\$921.98	
		Maintenance Labor Expense	\$258.67	\$255.88	\$395.62	\$416.94	
		Parts Expense	\$287.24	\$262.58	\$298.27	\$260.37	
Miscellaneous Trip Expense		\$202.19	\$202.19	\$202.19	\$202.19		
Total Variable		\$2,121.10	\$1,643.17	\$2,077.75	\$1,801.47		
Fixed Costs (Annual)	Hull Insurance	\$3,900	\$2,635	\$2,755	\$2,900		
	Liability Insurance	\$38,000	\$28,000	\$28,000	\$28,000		
	Hull Insurance per \$100	\$0.50	\$0.31	\$0.29	\$0.29		
	Liability Insurance per \$M	\$190	\$140	\$140	\$140		
	Maintenance Software Programs	\$11,356	\$4,456	\$1,755	\$3,613		
	Miscellaneous Services	\$11,085	\$11,085	\$11,085	\$11,085		
Periodic Costs	Mid-Life/Hot-Section Inspection	\$180,572	\$113,274	\$111,465	\$114,029		
	Engine Overhaul	\$452,564	\$288,849	\$294,105	\$296,211		
	Overhaul Interval	5,000t	5,000c	4,200c	4,200c		
	Paint	\$61,627	\$60,608	\$60,721	\$52,678		
	Interior Refurbishment	\$128,717	\$112,486	\$117,253	\$110,783		
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555	\$42,555		
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899	\$103,899		
	First Officer Salary	\$73,730	\$73,730	\$73,730	\$73,730		
Training	Pilot Initial (Per Pilot)	\$16,127	\$22,746	\$17,406	\$17,694		
	Maintenance Initial	\$7,005	\$6,641	\$7,524	\$6,627		
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345	\$34,345		
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268	\$10,268		

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Out-of-Production Aircraft — Category 3 — Jets 20,000 lb. to 30,000 lb.

General	Bombardier		Gulfstream Aerospace		Hawker Beechcraft		Cessna			
	Model		Learjet 55C		Astra SP		Hawker 800A		Citation VI	
	Category (1-6)		3		3		3		3	
	Aircraft Bluebook Retail Price (Model Year)		\$1,300,000 (1990)		\$1,400,000 (1995)		\$1,450,000 (1995)		\$1,500,000 (1995)	
Mission Costs	300 nm	Flight Time	0+44	0+46	0+50	0+44				
		Direct Cost	\$1,431.48	\$1,399.83	\$1,789.36	\$1,695.87				
		Fuel Expense	\$785.47	\$898.07	\$1,036.30	\$1,007.78				
		Per-Mile Cost	\$4.77	\$4.67	\$5.96	\$5.65				
	600 nm	Flight Time	1+24	1+23	1+31	1+24				
		Direct Cost	\$2,706.71	\$2,362.16	\$3,256.00	\$2,964.28				
		Fuel Expense	\$1,473.42	\$1,456.81	\$1,885.42	\$1,650.65				
		Per-Mile Cost	\$4.51	\$3.94	\$5.43	\$4.94				
	1,000 nm	Flight Time	2+17	2+20	2+28	2+21				
		Direct Cost	\$4,414.65	\$3,984.42	\$5,296.32	\$4,976.06				
		Fuel Expense	\$2,403.21	\$2,457.31	\$3,067.25	\$2,771.05				
		Per-Mile Cost	\$4.41	\$3.98	\$5.30	\$4.98				
	Variable Costs (Hourly)	Fuel Expense	\$1,052.44	\$1,053.11	\$1,243.14	\$1,179.03				
		Maintenance Labor Expense	\$418.37	\$252.98	\$414.97	\$401.83				
		Parts Expense	\$260.37	\$199.30	\$286.52	\$334.28				
		Miscellaneous Trip Expense	\$202.19	\$202.19	\$202.19	\$202.19				
Total Variable		\$1,933.37	\$1,707.59	\$2,146.81	\$2,117.34					
Fixed Costs (Annual)	Hull Insurance	\$3,770	\$4,340	\$3,915	\$4,350					
	Liability Insurance	\$28,000	\$28,000	\$27,000	\$28,000					
	Hull Insurance per \$100	\$0.29	\$0.31	\$0.27	\$0.29					
	Liability Insurance per \$M	\$140	\$140	\$135	\$140					
	Maintenance Software Programs	\$3,613	\$4,559	\$8,142	\$1,755					
	Miscellaneous Services	\$11,085	\$11,085	\$11,085	\$11,085					
Periodic Costs	Mid-Life/Hot-Section Inspection	\$114,029	\$114,407	\$127,991	\$113,274					
	Engine Overhaul	\$296,211	\$294,512	\$468,522	\$288,849					
	Overhaul Interval	4,200c	5,000c	4,200c	4,200c					
	Paint	\$52,678	\$55,850	\$64,912	\$60,721					
	Interior Refurbishment	\$110,783	\$123,042	\$125,766	\$117,253					
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555	\$42,555					
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899	\$103,899					
	First Officer Salary	\$73,730	\$73,730	\$73,730	\$73,730					
Training	Pilot Initial (Per Pilot)	\$17,694	\$20,250	\$22,637	\$19,029					
	Maintenance Initial	\$6,627	\$6,900	\$8,948	\$6,758					
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345	\$34,345					
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268	\$10,268					

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Out-of-Production Aircraft — Category 3 — Jets 20,000 lb. to 30,000 lb.

General	Bombardier		Gulfstream Aerospace		Bombardier	Cessna	
	Model	Learjet 60	Astra SPX	Learjet 40	Citation VII		
	Category (1-6)	3	3	3	3		
	Aircraft Bluebook Retail Price (Model Year)	\$2,400,000 (2003)	\$2,400,000 (2001)	\$2,550,000 (2007)	\$2,550,000 (2000)		
Mission Costs	300 nm	Flight Time	0+44	0+48	0+44	0+44	
		Direct Cost	\$1,371.24	\$1,340.17	\$1,155.43	\$1,627.70	
		Fuel Expense	\$867.35	\$823.49	\$869.55	\$1,053.83	
		Per-Mile Cost	\$4.57	\$4.47	\$3.85	\$5.43	
	600 nm	Flight Time	1+25	1+31	1+24	1+24	
		Direct Cost	\$2,379.08	\$2,329.57	\$1,914.10	\$2,817.86	
		Fuel Expense	\$1,405.65	\$1,350.04	\$1,368.32	\$1,722.29	
		Per-Mile Cost	\$3.97	\$3.88	\$3.19	\$4.70	
	1,000 nm	Flight Time	2+19	2+28	2+18	2+19	
		Direct Cost	\$3,890.44	\$3,788.57	\$3,144.81	\$4,662.94	
		Fuel Expense	\$2,298.59	\$2,195.49	\$2,248.17	\$2,850.04	
		Per-Mile Cost	\$3.89	\$3.79	\$3.14	\$4.66	
	Variable Costs (Hourly)	Fuel Expense		\$992.22	\$890.14	\$977.37	\$1,230.21
Maintenance Labor Expense		\$252.76	\$209.16	\$76.19	\$301.60		
Parts Expense		\$232.18	\$234.49	\$111.47	\$278.76		
Miscellaneous Trip Expense		\$202.19	\$202.19	\$202.19	\$202.19		
Total Variable		\$1,679.35	\$1,535.98	\$1,367.22	\$2,012.76		
Fixed Costs (Annual)	Hull Insurance		\$6,960	\$7,440	\$7,395	\$7,395	
	Liability Insurance		\$27,000	\$28,000	\$28,000	\$27,000	
	Hull Insurance per \$100		\$0.29	\$0.31	\$0.29	\$0.29	
	Liability Insurance per \$M		\$135	\$140	\$140	\$135	
	Maintenance Software Programs		\$1,729	\$6,272	\$1,729	\$1,755	
	Miscellaneous Services		\$11,085	\$11,085	\$11,085	\$11,085	
Periodic Costs	Mid-Life/Hot-Section Inspection		\$260,477	\$137,309	\$111,633	\$142,611	
	Engine Overhaul		\$757,785	\$312,572	\$433,539	\$301,409	
	Overhaul Interval		7,200t	5,000c	5,000c	4,200c	
	Paint		\$79,768	\$54,877	\$54,929	\$68,661	
	Interior Refurbishment		\$121,259	\$121,259	\$118,463	\$157,055	
	Modernization/Modification/Upgrade		\$42,555	\$42,555	\$42,555	\$42,555	
Personnel Costs	Captain Salary		\$103,899	\$103,899	\$103,899	\$103,899	
	First Officer Salary		\$73,730	\$73,730	\$73,730	\$73,730	
Training	Pilot Initial (Per Pilot)		\$23,106	\$22,284	\$20,877	\$20,435	
	Maintenance Initial		\$13,287	\$7,007	\$10,218	\$8,434	
Facilities (Annual)	Hangar/Office Lease Expense		\$34,345	\$34,345	\$34,345	\$34,345	
	Miscellaneous Office Expense		\$10,268	\$10,268	\$10,268	\$10,268	

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Out-of-Production Aircraft — Category 3 — Jets 20,000 lb. to 30,000 lb.

General	Hawker Beechcraft		Bombardier	Cessna	Gulfstream Aerospace	
	Model	Hawker 800XP	Learjet 45	Citation Excel	G100	
	Category (1-6)	3	3	3	3	
	Aircraft Bluebook Retail Price (Model Year)	\$2,600,000 (2004)	\$3,300,000 (2007)	\$3,400,000 (2004)	\$3,500,000 (2006)	
Mission Costs	300 nm	Flight Time	0+49	0+44	0+47	0+48
		Direct Cost	\$1,737.18	\$1,434.91	\$1,468.83	\$1,223.42
		Fuel Expense	\$1,071.43	\$872.49	\$974.17	\$835.93
		Per-Mile Cost	\$5.79	\$4.78	\$4.90	\$4.08
	600 nm	Flight Time	1+31	1+25	1+31	1+31
		Direct Cost	\$3,093.29	\$2,458.48	\$2,568.19	\$2,113.90
		Fuel Expense	\$1,856.90	\$1,371.99	\$1,610.42	\$1,379.29
		Per-Mile Cost	\$5.16	\$4.10	\$4.28	\$3.52
	1,000 nm	Flight Time	2+25	2+18	2+30	2+28
		Direct Cost	\$4,931.27	\$3,991.63	\$4,233.50	\$3,437.78
		Fuel Expense	\$2,961.19	\$2,227.69	\$2,654.77	\$2,243.02
		Per-Mile Cost	\$4.93	\$3.99	\$4.23	\$3.44
	Variable Costs (Hourly)	Fuel Expense	\$1,224.33	\$968.46	\$1,061.82	\$909.42
		Maintenance Labor Expense	\$356.23	\$270.63	\$228.51	\$208.46
		Parts Expense	\$256.78	\$294.11	\$200.80	\$73.71
Miscellaneous Trip Expense		\$202.19	\$202.19	\$202.19	\$202.19	
Total Variable		\$2,039.53	\$1,735.39	\$1,693.31	\$1,393.78	
Fixed Costs (Annual)	Hull Insurance	\$7,020	\$9,570	\$9,180	\$10,850	
	Liability Insurance	\$27,000	\$27,000	\$27,000	\$28,000	
	Hull Insurance per \$100	\$0.27	\$0.29	\$0.27	\$0.31	
	Liability Insurance per \$M	\$135	\$135	\$135	\$140	
	Maintenance Software Programs	\$8,362	\$1,729	\$1,755	\$6,272	
	Miscellaneous Services	\$11,085	\$11,085	\$11,085	\$11,085	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$126,137	\$111,633	\$100,470	\$139,327	
	Engine Overhaul	\$403,384	\$433,539	\$696,548	\$317,167	
	Overhaul Interval	4,200c	5,000t	5,000t	5,000c	
	Paint	\$63,907	\$54,877	\$62,518	\$55,684	
	Interior Refurbishment	\$123,944	\$118,472	\$153,476	\$123,042	
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555	\$42,555	
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899	\$103,899	
	First Officer Salary	\$73,730	\$73,730	\$73,730	\$73,730	
Training	Pilot Initial (Per Pilot)	\$24,807	\$34,858	\$21,595	\$22,299	
	Maintenance Initial	\$10,209	\$10,320	\$7,180	\$7,209	
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345	\$34,345	
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268	\$10,268	

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Out-of-Production Aircraft – Category 3 – Jets 20,000 lb. to 30,000 lb.

General	Hawker Beechcraft		Hawker Beechcraft	Bombardier
	Model	Hawker 850XP	Hawker 750	Learjet 40XR
	Category (1-6)	3	3	3
	Aircraft Bluebook Retail Price (Model Year)	\$4,200,000 (2009)	\$4,300,000 (2011)	\$4,600,000 (2012)
Mission Costs	300 nm	Flight Time	0+49	0+43
		Direct Cost	\$1,335.64	\$1,173.73
		Fuel Expense	\$998.28	\$914.18
		Per-Mile Cost	\$4.45	\$3.91
	600 nm	Flight Time	1+30	1+24
		Direct Cost	\$2,372.68	\$1,914.87
		Fuel Expense	\$1,753.03	\$1,407.84
		Per-Mile Cost	\$3.95	\$3.19
	1,000 nm	Flight Time	2+24	2+16
		Direct Cost	\$3,789.57	\$3,017.14
		Fuel Expense	\$2,798.12	\$2,196.22
		Per-Mile Cost	\$3.79	\$3.02
Variable Costs (Hourly)	Fuel Expense	\$1,168.69	\$1,143.79	\$1,005.60
	Maintenance Labor Expense	\$121.34	\$161.01	\$95.62
	Parts Expense	\$89.58	\$141.73	\$64.36
	Miscellaneous Trip Expense	\$202.19	\$202.19	\$202.19
	Total Variable	\$1,581.79	\$1,648.72	\$1,367.76
Fixed Costs (Annual)	Hull Insurance	\$11,340	\$9,890	\$10,580
	Liability Insurance	\$27,000	\$26,000	\$26,000
	Hull Insurance per \$100	\$0.27	\$0.23	\$0.23
	Liability Insurance per \$M	\$135	\$130	\$130
	Maintenance Software Programs	\$8,362	\$8,362	\$1,736
	Miscellaneous Services	\$11,085	\$11,085	\$11,085
Periodic Costs	Mid-Life/Hot-Section Inspection	\$127,991	\$130,154	\$110,727
	Engine Overhaul	\$409,313	\$445,223	\$400,517
	Overhaul Interval	4,200c	4,200c	5,000c
	Paint	\$64,912	\$64,912	\$55,736
	Interior Refurbishment	\$136,921	\$125,766	\$120,298
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899
	First Officer Salary	\$73,730	\$73,730	\$73,730
Training	Pilot Initial (Per Pilot)	\$28,390	\$26,893	\$23,805
	Maintenance Initial	\$11,577	\$7,536	\$10,368
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268

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Out-of-Production Aircraft – Category 3 – Jets 20,000 lb. to 30,000 lb.

General	Cessna		Bombardier		Hawker Beechcraft	
	Model	Citation XLS	Learjet 45XR	Hawker 900XP		
	Category (1-6)	3	3	3		
	Aircraft Bluebook Retail Price (Model Year)	\$5,200,000 (2008)	\$6,000,000 (2012)	\$7,000,000 (2012)		
Mission Costs	300 nm	Flight Time	0+46	0+44	0+47	
		Direct Cost	\$1,379.43	\$1,186.53	\$1,326.03	
		Fuel Expense	\$910.52	\$917.84	\$941.97	
		Per-Mile Cost	\$4.60	\$3.96	\$4.42	
	600 nm	Flight Time	1+29	1+24	1+29	
		Direct Cost	\$2,438.67	\$1,927.38	\$2,394.72	
		Fuel Expense	\$1,531.43	\$1,414.42	\$1,667.46	
		Per-Mile Cost	\$4.06	\$3.21	\$3.99	
	1,000 nm	Flight Time	2+26	2+17	2+23	
		Direct Cost	\$3,835.89	\$3,037.22	\$3,806.47	
		Fuel Expense	\$2,347.61	\$2,200.61	\$2,637.96	
		Per-Mile Cost	\$3.84	\$3.04	\$3.81	
	Variable Costs (Hourly)	Fuel Expense	\$1,032.43	\$1,010.30	\$1,124.13	
		Maintenance Labor Expense	\$242.54	\$96.68	\$159.37	
		Parts Expense	\$166.89	\$67.53	\$128.73	
Miscellaneous Trip Expense		\$202.19	\$202.19	\$202.19		
Total Variable		\$1,644.05	\$1,376.70	\$1,614.42		
Fixed Costs (Annual)	Hull Insurance	\$11,960	\$13,800	\$16,100		
	Liability Insurance	\$26,000	\$26,000	\$26,000		
	Hull Insurance per \$100	\$0.23	\$0.23	\$0.23		
	Liability Insurance per \$M	\$130	\$130	\$130		
	Maintenance Software Programs	\$1,755	\$1,736	\$8,362		
	Miscellaneous Services	\$11,085	\$11,085	\$11,085		
Periodic Costs	Mid-Life/Hot-Section Inspection	\$101,947	\$110,727	\$131,628		
	Engine Overhaul	\$630,153	\$400,517	\$315,907		
	Overhaul Interval	5,000t	5,000t	6,000c		
	Paint	\$64,912	\$55,736	\$64,912		
	Interior Refurbishment	\$159,364	\$120,298	\$125,864		
	Modernization/Modification/Upgrade	\$42,555	\$42,555	\$42,555		
Personnel Costs	Captain Salary	\$103,899	\$103,899	\$103,899		
	First Officer Salary	\$73,730	\$73,730	\$73,730		
Training	Pilot Initial (Per Pilot)	\$28,081	\$34,858	\$27,926		
	Maintenance Initial	\$7,185	\$10,368	\$10,324		
Facilities (Annual)	Hangar/Office Lease Expense	\$34,345	\$34,345	\$34,345		
	Miscellaneous Office Expense	\$10,268	\$10,268	\$10,268		

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Out-of-Production Aircraft – Category 4 – Jets 30,000 lb. to 41,000 lb.

General	Bombardier		Dassault		Dassault		Hawker Beechcraft					
	Model		Challenger 600		Falcon 200		Falcon 20F-5		Hawker 1000A			
	Category (1-6)		4		4		4		4			
	Aircraft Bluebook Retail Price (Model Year)		\$800,000 (1983)		\$820,000 (1991)		\$1,000,000 (1990)		\$2,200,000 (1996)			
Mission Costs	300 nm	Flight Time	0+58	0+50	0+50	0+49						
		Direct Cost	\$2,762.76	\$2,003.45	\$1,896.13	\$2,207.86						
		Fuel Expense	\$1,354.45	\$1,121.90	\$1,136.51	\$984.39						
		Per-Mile Cost	\$9.21	\$6.68	\$6.32	\$7.36						
	600 nm	Flight Time	1+40	1+34	1+35	1+30						
		Direct Cost	\$4,568.03	\$3,526.60	\$3,611.73	\$3,954.87						
		Fuel Expense	\$2,139.91	\$1,869.29	\$2,168.45	\$1,707.69						
		Per-Mile Cost	\$7.61	\$5.88	\$6.02	\$6.59						
	1,000 nm	Flight Time	2+40	2+32	2+35	2+24						
		Direct Cost	\$7,341.28	\$5,584.81	\$5,892.34	\$6,327.80						
		Fuel Expense	\$3,456.29	\$2,904.90	\$3,537.51	\$2,732.30						
		Per-Mile Cost	\$7.34	\$5.58	\$5.89	\$6.33						
	Variable Costs (Hourly)	Fuel Expense		\$1,283.95	\$1,193.16	\$1,369.54	\$1,138.46					
		Maintenance Labor Expense		\$515.92	\$404.26	\$258.66	\$487.95					
		Parts Expense		\$575.25	\$287.90	\$287.19	\$644.47					
Miscellaneous Trip Expense		\$365.70	\$365.70	\$365.70	\$365.70							
Total Variable		\$2,740.82	\$2,251.02	\$2,281.09	\$2,636.58							
Fixed Costs (Annual)	Hull Insurance		\$2,080	\$2,378	\$5,000	\$5,500						
	Liability Insurance		\$27,000	\$28,000	\$37,000	\$28,000						
	Hull Insurance per \$100		\$0.26	\$0.29	\$0.50	\$0.25						
	Liability Insurance per \$M		\$135	\$140	\$185	\$140						
	Maintenance Software Programs		\$8,033	\$10,930	\$11,356	\$8,142						
	Miscellaneous Services		\$13,211	\$13,211	\$13,211	\$13,211						
Periodic Costs	Mid-Life/Hot-Section Inspection		\$404,556	\$127,193	\$177,164	\$264,307						
	Engine Overhaul		\$809,112	\$466,256	\$283,185	\$768,924						
	Overhaul Interval		4,000t	0C	4,200t	6,000t						
	Paint		\$93,687	\$60,268	\$60,721	\$65,517						
	Interior Refurbishment		\$231,214	\$125,766	\$128,717	\$189,652						
	Modernization/Modification/Upgrade		\$65,581	\$65,581	\$65,581	\$65,581						
Personnel Costs	Captain Salary		\$116,639	\$116,639	\$116,639	\$116,639						
	First Officer Salary		\$83,656	\$83,656	\$83,656	\$83,656						
Training	Pilot Initial (Per Pilot)		\$31,337	\$20,395	\$16,105	\$34,349						
	Maintenance Initial		\$8,415	\$7,103	\$7,020	\$15,120						
Facilities (Annual)	Hangar/Office Lease Expense		\$57,813	\$57,813	\$57,813	\$57,813						
	Miscellaneous Office Expense		\$18,518	\$18,518	\$18,518	\$18,518						

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Out-of-Production Aircraft – Category 4 – Jets 30,000 lb. to 41,000 lb.

General	Dassault		Fairchild Dornier	Hawker Beechcraft	Dassault	
	Model	Falcon 50	Envoy 3	Hawker 4000	Falcon 50EX	
	Category (1-6)	4	4	4	4	
	Aircraft Bluebook Retail Price (Model Year)	\$2,300,000 (1996)	\$2,900,000 (2004)*	\$5,600,000 (2012)	\$6,400,000 (2007)	
Mission Costs	300 nm	Flight Time	0+46	0+52	0+47	0+47
		Direct Cost	\$2,188.16	\$2,039.30	\$1,760.20	\$2,198.10
		Fuel Expense	\$1,234.06	\$1,265.96	\$1,265.22	\$1,189.16
		Per-Mile Cost	\$7.29	\$6.80	\$5.87	\$7.33
	600 nm	Flight Time	1+29	1+41	1+26	1+27
		Direct Cost	\$4,234.72	\$3,690.25	\$2,955.66	\$4,068.20
		Fuel Expense	\$2,388.74	\$2,188.18	\$2,049.96	\$2,200.59
		Per-Mile Cost	\$7.06	\$6.15	\$4.93	\$6.78
	1,000 nm	Flight Time	2+27	2+46	2+18	2+21
		Direct Cost	\$6,992.38	\$5,904.55	\$4,584.21	\$6,594.30
		Fuel Expense	\$3,943.40	\$3,435.81	\$3,130.88	\$3,567.49
		Per-Mile Cost	\$6.99	\$5.90	\$4.58	\$6.59
	Variable Costs (Hourly)	Fuel Expense	\$1,610.39	\$1,299.91	\$1,430.20	\$1,517.65
		Maintenance Labor Expense	\$478.41	\$188.25	\$81.44	\$478.95
		Parts Expense	\$400.37	\$338.36	\$184.74	\$443.35
		Miscellaneous Trip Expense	\$365.70	\$365.70	\$365.70	\$365.70
Total Variable		\$2,854.87	\$2,192.23	\$2,062.09	\$2,805.65	
Fixed Costs (Annual)	Hull Insurance	\$5,290	\$7,540	\$10,080	\$14,720	
	Liability Insurance	\$27,000	\$27,000	\$23,000	\$27,000	
	Hull Insurance per \$100	\$0.23	\$0.26	\$0.18	\$0.23	
	Liability Insurance per \$M	\$135	\$135	\$115	\$135	
	Maintenance Software Programs	\$11,976	\$10,530	\$11,872	\$11,976	
	Miscellaneous Services	\$13,211	\$13,211	\$13,211	\$13,211	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$140,785	\$169,911	\$154,681	\$156,997	
	Engine Overhaul	\$271,858	\$526,723	\$458,699	\$277,295	
	Overhaul Interval	4,200c	0C	6000t	4,200c	
	Paint	\$86,550	\$92,327	\$122,801	\$87,762	
	Interior Refurbishment	\$204,881	\$218,501	\$269,851	\$207,749	
	Modernization/Modification/Upgrade	\$65,581	\$65,581	\$65,581	\$65,581	
Personnel Costs	Captain Salary	\$116,639	\$116,639	\$116,639	\$116,639	
	First Officer Salary	\$83,656	\$83,656	\$83,656	\$83,656	
Training	Pilot Initial (Per Pilot)	\$29,407	\$34,251	\$34,955	\$29,578	
	Maintenance Initial	\$13,417	\$6,573	\$9,395	\$12,363	
Facilities (Annual)	Hangar/Office Lease Expense	\$57,813	\$57,813	\$57,813	\$57,813	
	Miscellaneous Office Expense	\$18,518	\$18,518 *Estimated value	\$18,518	\$18,518	

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Out-of-Production Aircraft – Category 4 – Jets 30,000 lb. to 41,000 lb.

General	Gulfstream Aerospace		Dassault		Cessna		Bombardier	
	Model	G200	Falcon 2000	Citation Sovereign	Challenger 300			
	Category (1-6)	4	4	4	4			
	Aircraft Bluebook Retail Price (Model Year)	\$8,500,000 (2011)	\$8,800,000 (2006)	\$11,500,000 (2013)	\$17,000,000 (2014)			
Mission Costs	300 nm	Flight Time	0+48	0+47	0+45	0+47		
		Direct Cost	\$1,519.57	\$1,937.67	\$1,574.70	\$1,703.17		
		Fuel Expense	\$995.34	\$1,080.93	\$1,088.24	\$1,154.05		
		Per-Mile Cost	\$5.07	\$6.46	\$5.25	\$5.68		
	600 nm	Flight Time	1+30	1+27	1+27	1+26		
		Direct Cost	\$2,694.26	\$3,599.27	\$2,694.98	\$2,882.85		
		Fuel Expense	\$1,711.33	\$2,013.38	\$1,754.49	\$1,878.07		
		Per-Mile Cost	\$4.49	\$6.00	\$4.49	\$4.80		
	1,000 nm	Flight Time	2+26	2+20	2+22	2+18		
		Direct Cost	\$4,296.84	\$5,792.58	\$4,277.59	\$4,471.87		
		Fuel Expense	\$2,702.30	\$3,240.58	\$2,742.54	\$2,859.54		
		Per-Mile Cost	\$4.30	\$5.79	\$4.28	\$4.47		
	Variable Costs (Hourly)	Fuel Expense	\$1,140.88	\$1,388.54	\$1,209.99	\$1,310.28		
		Maintenance Labor Expense	\$139.01	\$488.96	\$201.45	\$159.84		
		Parts Expense	\$150.58	\$239.05	\$81.46	\$175.47		
		Miscellaneous Trip Expense	\$365.70	\$365.70	\$365.70	\$365.70		
Total Variable		\$1,796.17	\$2,482.25	\$1,858.61	\$2,011.29			
Fixed Costs (Annual)	Hull Insurance	\$15,300	\$20,240	\$23,000	\$22,100			
	Liability Insurance	\$23,000	\$27,000	\$23,000	\$23,000			
	Hull Insurance per \$100	\$0.18	\$0.23	\$0.20	\$0.13			
	Liability Insurance per \$M	\$115	\$135	\$115	\$115			
	Maintenance Software Programs	\$11,501	\$8,362	\$1,755	\$8,143			
	Miscellaneous Services	\$13,211	\$13,211	\$13,211	\$13,211			
Periodic Costs	Mid-Life/Hot-Section Inspection	\$158,584	\$226,657	\$155,019	NA			
	Engine Overhaul	\$481,135	\$773,218	\$470,318	NA			
	Overhaul Interval	6,000t	6,000t	6,000t	OC			
	Paint	\$85,304	\$89,484	\$80,546	\$117,338			
	Interior Refurbishment	\$193,643	\$225,359	\$159,489	\$236,433			
	Modernization/Modification/Upgrade	\$65,581	\$65,581	\$65,581	\$65,581			
Personnel Costs	Captain Salary	\$116,639	\$116,639	\$116,639	\$116,639			
	First Officer Salary	\$83,656	\$83,656	\$83,656	\$83,656			
Training	Pilot Initial (Per Pilot)	\$33,914	\$32,528	\$31,418	\$29,609			
	Maintenance Initial	\$13,834	\$14,275	\$8,259	\$12,251			
Facilities (Annual)	Hangar/Office Lease Expense	\$57,813	\$57,813	\$57,813	\$57,813			
	Miscellaneous Office Expense	\$18,518	\$18,518	\$18,518	\$18,518			

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Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

General	Gulfstream Aerospace		Gulfstream Aerospace	Gulfstream Aerospace	Bombardier
	Model	GII-B	GII	GIII	Challenger 601-1A
	Category (1-6)	5	5	5	5
	Aircraft Bluebook Retail Price (Model Year)	\$600,000 (1979)*	\$625,000 (1979)	\$1,050,000 (1987)	\$1,600,000 (1987)
Mission Costs	300 nm	Flight Time	0+46	1+03	0+46
		Direct Cost	\$3,244.94	\$4,717.61	\$3,588.06
		Fuel Expense	\$2,105.73	\$2,977.30	\$2,327.14
		Per-Mile Cost	\$10.82	\$15.73	\$11.96
	600 nm	Flight Time	1+26	1+53	1+26
		Direct Cost	\$5,722.70	\$8,461.05	\$6,347.68
		Fuel Expense	\$3,592.88	\$5,339.54	\$3,990.33
		Per-Mile Cost	\$9.54	\$14.10	\$10.58
	1,000 nm	Flight Time	2+21	2+43	2+21
		Direct Cost	\$9,411.65	\$12,205.13	\$10,407.44
		Fuel Expense	\$5,919.74	\$7,702.41	\$6,542.48
		Per-Mile Cost	\$9.41	\$12.21	\$10.41
Variable Costs (Hourly)	Fuel Expense	\$1,053.13	\$837.28	\$890.07	\$1,363.06
	Maintenance Labor Expense	\$506.54	\$603.03	\$685.89	\$446.39
	Parts Expense	\$517.24	\$592.27	\$496.62	\$519.12
	Miscellaneous Trip Expense	\$462.15	\$462.15	\$462.15	\$462.15
	Total Variable	\$2,539.06	\$2,494.72	\$2,534.73	\$2,790.71
Fixed Costs (Annual)	Hull Insurance	\$1,680	\$1,750	\$2,940	\$2,720
	Liability Insurance	\$25,000	\$25,000	\$29,000	\$27,000
	Hull Insurance per \$100	\$0.28	\$0.28	\$0.28	\$0.17
	Liability Insurance per \$M	\$125	\$125	\$145	\$135
	Maintenance Software Programs	\$7,056	\$7,056	\$7,056	\$8,120
	Miscellaneous Services	\$13,727	\$13,727	\$13,727	\$13,727
Periodic Costs	Mid-Life/Hot-Section Inspection	\$487,387	\$487,387	\$487,387	\$347,027
	Engine Overhaul	\$1,096,383	\$1,096,383	\$1,096,383	\$1,030,678
	Overhaul Interval	8,000t	8,000t	8,000t	6,000t
	Paint	\$173,667	\$173,667	\$173,667	\$98,672
	Interior Refurbishment	\$303,290	\$303,290	\$303,290	\$251,598
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406
Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576
Training	Pilot Initial (Per Pilot)	\$25,293	\$25,293	\$25,293	\$31,410
	Maintenance Initial	\$11,501	\$11,501	\$11,501	\$16,064
Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282
	Miscellaneous Office Expense	\$59,558 *Estimated value	\$59,558	\$59,558	\$59,558

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Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

		Bombardier	Embraer	Bombardier	Gulfstream Aerospace	
General	Model	Challenger 601-3A	Legacy Shuttle	Challenger 601-3R	GIV	
	Category (1-6)	5	5	5	5	
	Aircraft Bluebook Retail Price (Model Year)	\$2,500,000 (1993)	\$2,500,000 (2005)*	\$3,300,000 (1996)	\$3,500,000 (1992)	
Mission Costs	300 nm	Flight Time	0+48	0+51	0+48	0+45
		Direct Cost	\$2,533.91	\$2,052.50	\$2,553.41	\$3,100.04
		Fuel Expense	\$1,216.96	\$1,418.81	\$1,215.49	\$2,063.82
		Per-Mile Cost	\$8.45	\$6.84	\$8.51	\$10.33
	600 nm	Flight Time	1+31	1+35	1+31	1+25
		Direct Cost	\$4,800.45	\$3,598.96	\$4,841.67	\$5,282.75
		Fuel Expense	\$2,303.73	\$2,418.55	\$2,305.19	\$3,325.43
		Per-Mile Cost	\$8.00	\$6.00	\$8.07	\$8.80
	1,000 nm	Flight Time	2+27	2+32	2+27	2+17
		Direct Cost	\$7,753.49	\$5,664.58	\$7,821.55	\$8,515.05
		Fuel Expense	\$3,720.33	\$3,775.93	\$3,724.17	\$5,360.32
		Per-Mile Cost	\$7.75	\$5.66	\$7.82	\$8.52
	Variable Costs (Hourly)	Fuel Expense	\$1,518.50	\$1,490.50	\$1,520.07	\$909.33
		Maintenance Labor Expense	\$574.44	\$134.64	\$494.82	\$437.90
		Parts Expense	\$609.60	\$148.73	\$715.44	\$481.58
Miscellaneous Trip Expense		\$462.15	\$462.15	\$462.15	\$462.15	
Total Variable		\$3,164.69	\$2,236.02	\$3,192.47	\$2,290.97	
Fixed Costs (Annual)	Hull Insurance	\$4,250	\$4,250	\$5,610	\$5,250	
	Liability Insurance	\$27,000	\$25,000	\$27,000	\$27,000	
	Hull Insurance per \$100	\$0.17	\$0.17	\$0.17	\$0.15	
	Liability Insurance per \$M	\$135	\$125	\$135	\$135	
	Maintenance Software Programs	\$8,120	\$8,142	\$8,120	\$11,072	
	Miscellaneous Services	\$13,727	\$13,727	\$13,727	\$13,727	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$294,513	\$287,891	\$294,513	\$583,542	
	Engine Overhaul	\$1,045,110	\$528,060	\$1,045,110	\$898,061	
	Overhaul Interval	6,000t	0C	6,000t	8,000t	
	Paint	\$98,672	\$169,474	\$98,672	\$173,146	
	Interior Refurbishment	\$251,598	\$318,501	\$251,598	\$304,199	
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406	
Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790	
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576	
Training	Pilot Initial (Per Pilot)	\$33,615	\$32,004	\$34,196	\$32,783	
	Maintenance Initial	\$14,164	\$12,905	\$14,146	\$17,728	
Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282	
	Miscellaneous Office Expense	\$59,558	\$59,558 *Estimated value	\$59,558	\$59,558	

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Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

General	Dassault		Gulfstream Aerospace		Dassault		Gulfstream Aerospace	
	Model	Falcon 900	G300	Falcon 900B	GIV-SP			
	Category (1-6)	5	5	5	5			
	Aircraft Bluebook Retail Price (Model Year)	\$3,700,000 (1990)	\$5,800,000 (2004)	\$7,400,000 (1999)	\$7,400,000 (2002)			
Mission Costs	300 nm	Flight Time	0+45	0+45	0+48	0+45		
		Direct Cost	\$2,507.58	\$2,490.28	\$2,439.52	\$2,850.72		
		Fuel Expense	\$1,366.90	\$1,924.91	\$1,249.83	\$1,911.74		
		Per-Mile Cost	\$8.36	\$8.30	\$8.13	\$9.50		
	600 nm	Flight Time	1+24	1+25	1+27	1+25		
		Direct Cost	\$4,383.26	\$4,157.12	\$4,226.74	\$4,838.69		
		Fuel Expense	\$2,253.99	\$3,089.19	\$2,070.43	\$3,065.05		
		Per-Mile Cost	\$7.31	\$6.93	\$7.04	\$8.06		
	1,000 nm	Flight Time	2+15	2+17	2+20	2+17		
		Direct Cost	\$6,765.74	\$6,404.01	\$7,435.22	\$7,504.93		
		Fuel Expense	\$3,343.69	\$4,682.76	\$3,965.30	\$4,646.23		
		Per-Mile Cost	\$6.77	\$6.40	\$7.44	\$7.50		
Variable Costs (Hourly)	Fuel Expense	\$874.54	\$1,110.53	\$1,034.50	\$2,835.24			
	Maintenance Labor Expense	\$487.79	\$142.42	\$492.10	\$376.55			
	Parts Expense	\$570.98	\$149.27	\$532.86	\$413.29			
	Miscellaneous Trip Expense	\$462.15	\$462.15	\$462.15	\$462.15			
	Total Variable	\$2,395.45	\$1,864.37	\$2,521.61	\$4,087.23			
Fixed Costs (Annual)	Hull Insurance	\$5,550	\$8,700	\$11,100	\$11,100			
	Liability Insurance	\$27,000	\$25,000	\$27,000	\$25,000			
	Hull Insurance per \$100	\$0.15	\$0.15	\$0.15	\$0.15			
	Liability Insurance per \$M	\$135	\$125	\$135	\$125			
	Maintenance Software Programs	\$8,142	\$9,395	\$8,362	\$9,395			
	Miscellaneous Services	\$13,727	\$13,727	\$13,727	\$13,727			
Periodic Costs	Mid-Life/Hot-Section Inspection	\$175,575	\$583,542	\$177,164	\$583,542			
	Engine Overhaul	\$459,217	\$898,061	\$277,633	\$898,061			
	Overhaul Interval	4,200c	8,000t	4,200c	8,000t			
	Paint	\$114,418	\$143,553	\$114,418	\$173,667			
	Interior Refurbishment	\$247,673	\$304,199	\$247,673	\$304,202			
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406			
Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790			
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576			
Training	Pilot Initial (Per Pilot)	\$38,645	\$35,548	\$39,116	\$35,843			
	Maintenance Initial	\$13,487	\$20,570	\$13,487	\$17,307			
Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282			
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558			

2016 Operations Planning Guide

Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

General	Bombardier		Gulfstream Aerospace	Gulfstream Aerospace	Dassault	
	Model	Challenger 604	G400	G350	Falcon 900C	
	Category (1-6)	5	5	5	5	
	Aircraft Bluebook Retail Price (Model Year)	\$9,000,000 (2007)	\$9,000,000 (2004)	\$9,250,000 (2007)	\$10,000,000 (2004)	
Mission Costs	300 nm	Flight Time	0+48	0+45	0+46	0+48
		Direct Cost	\$2,190.34	\$2,534.15	\$2,373.26	\$2,375.75
		Fuel Expense	\$1,165.76	\$1,924.91	\$1,894.91	\$1,382.98
		Per-Mile Cost	\$7.30	\$8.45	\$7.91	\$7.92
	600 nm	Flight Time	1+27	1+25	1+25	1+27
		Direct Cost	\$3,928.24	\$4,239.99	\$3,881.68	\$4,306.46
		Fuel Expense	\$2,071.18	\$3,089.19	\$2,997.78	\$2,507.07
		Per-Mile Cost	\$6.55	\$7.07	\$6.47	\$7.18
	1,000 nm	Flight Time	2+19	2+17	2+18	2+21
		Direct Cost	\$6,350.22	\$6,537.57	\$5,935.72	\$6,970.78
		Fuel Expense	\$3,383.21	\$4,682.76	\$4,500.69	\$4,054.53
		Per-Mile Cost	\$6.35	\$6.54	\$5.94	\$6.97
	Variable Costs (Hourly)	Fuel Expense		\$1,460.38	\$2,519.04	\$2,784.04
Maintenance Labor Expense		\$338.78	\$215.47	\$116.43	\$312.41	
Parts Expense		\$479.80	\$134.71	\$45.35	\$466.41	
Miscellaneous Trip Expense		\$462.15	\$462.15	\$462.15	\$462.15	
Total Variable		\$2,741.10	\$3,331.37	\$3,407.96	\$2,613.99	
Fixed Costs (Annual)	Hull Insurance		\$13,500	\$10,350	\$12,025	\$13,000
	Liability Insurance		\$25,000	\$24,000	\$22,000	\$24,000
	Hull Insurance per \$100		\$0.15	\$0.12	\$0.13	\$0.13
	Liability Insurance per \$M		\$125	\$120	\$110	\$120
	Maintenance Software Programs		\$10,840	\$9,395	\$9,188	\$8,362
	Miscellaneous Services		\$13,727	\$13,727	\$13,727	\$13,727
Periodic Costs	Mid-Life/Hot-Section Inspection		\$330,045	\$583,542	\$589,261	\$177,164
	Engine Overhaul		\$1,122,657	\$877,870	\$1,212,235	\$277,633
	Overhaul Interval		6,400t or OC	8,000t	12,000t or OC	4,200c
	Paint		\$122,680	\$143,984	\$143,985	\$114,418
	Interior Refurbishment		\$247,429	\$304,200	\$304,437	\$247,673
	Modernization/Modification/Upgrade		\$70,406	\$70,406	\$70,406	\$70,406
Personnel Costs	Captain Salary		\$143,790	\$143,790	\$143,790	\$143,790
	First Officer Salary		\$103,576	\$103,576	\$103,576	\$103,576
Training	Pilot Initial (Per Pilot)		\$48,165	\$35,483	\$39,649	\$38,645
	Maintenance Initial		\$10,804	\$20,906	\$18,634	\$13,487
Facilities (Annual)	Hangar/Office Lease Expense		\$98,282	\$98,282	\$98,282	\$98,282
	Miscellaneous Office Expense		\$59,558	\$59,558	\$59,558	\$59,558

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Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

General	Dassault		Bombardier	Dassault	Dassault	
	Model	Falcon 2000DX	Challenger 850	Falcon 2000EX	Falcon 900DX	
	Category (1-6)	5	5	5	5	
	Aircraft Bluebook Retail Price (Model Year)	\$11,500,000 (2008)	\$13,000,000 (2012)	\$15,500,000 (2009)	\$18,000,000 (2010)	
Mission Costs	300 nm	Flight Time	0+48	0+48	0+48	0+47
		Direct Cost	\$1,730.96	\$2,162.32	\$1,723.64	\$1,812.79
		Fuel Expense	\$1,122.61	\$1,567.27	\$1,115.30	\$1,173.81
		Per-Mile Cost	\$5.77	\$7.21	\$5.75	\$6.04
	600 nm	Flight Time	1+27	1+28	1+27	1+27
		Direct Cost	\$2,956.58	\$3,725.96	\$2,930.98	\$3,139.14
		Fuel Expense	\$1,853.96	\$2,635.02	\$1,828.36	\$1,956.34
		Per-Mile Cost	\$4.93	\$6.21	\$4.88	\$5.23
	1,000 nm	Flight Time	2+21	2+21	2+21	2+20
		Direct Cost	\$4,650.22	\$5,878.63	\$4,591.71	\$4,938.43
		Fuel Expense	\$2,863.21	\$4,130.65	\$2,804.70	\$3,035.07
		Per-Mile Cost	\$4.65	\$5.88	\$4.59	\$4.94
	Variable Costs (Hourly)	Fuel Expense	\$1,369.36	\$1,757.72	\$1,146.67	\$1,609.55
		Maintenance Labor Expense	\$169.57	\$144.32	\$169.57	\$199.68
		Parts Expense	\$128.72	\$137.35	\$128.72	\$153.90
		Miscellaneous Trip Expense	\$462.15	\$462.15	\$462.15	\$462.15
Total Variable		\$2,129.79	\$2,501.54	\$1,907.10	\$2,425.28	
Fixed Costs (Annual)	Hull Insurance	\$14,950	\$16,900	\$17,825	\$23,400	
	Liability Insurance	\$22,000	\$22,000	\$24,000	\$22,000	
	Hull Insurance per \$100	\$0.13	\$0.13	\$0.12	\$0.13	
	Liability Insurance per \$M	\$110	\$110	\$120	\$110	
	Maintenance Software Programs	\$8,362	\$8,362	\$8,362	\$8,362	
	Miscellaneous Services	\$13,727	\$13,727	\$13,727	\$13,727	
Periodic Costs	Mid-Life/Hot-Section Inspection	\$287,036	\$311,751	\$287,036	\$151,833	
	Engine Overhaul	\$656,854	\$869,306	\$656,854	\$357,708	
	Overhaul Interval	4,200c	0C	4,200c	4,200c	
	Paint	\$88,249	\$167,979	\$88,249	\$112,761	
	Interior Refurbishment	\$219,028	\$343,246	\$219,028	\$244,085	
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406	
Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790	
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576	
Training	Pilot Initial (Per Pilot)	\$35,711	\$31,591	\$35,711	\$40,287	
	Maintenance Initial	\$10,324	\$12,182	\$10,324	\$10,626	
Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282	
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558	

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Out-of-Production Aircraft – Category 5 – Jets >41,000 lb.

General	Gulfstream Aerospace		Bombardier	Dassault	Dassault		
	Model	G500	Challenger 605	Falcon 2000LX	Falcon 900EX		
	Category (1-6)	5	5	5	5		
	Aircraft Bluebook Retail Price (Model Year)	\$18,500,000 (2007)	\$21,000,000 (2015)	\$21,000,000 (2012)	\$22,000,000 (2010)		
Mission Costs	300 nm	Flight Time	0+47	0+47	0+48	0+47	
		Direct Cost	\$2,641.18	\$1,746.56	\$1,774.94	\$1,820.08	
		Fuel Expense	\$1,740.60	\$1,165.02	\$1,186.00	\$1,181.10	
		Per-Mile Cost	\$8.80	\$5.82	\$5.92	\$6.07	
	600 nm	Flight Time	1+27	1+25	1+28	1+27	
		Direct Cost	\$4,373.02	\$3,297.76	\$3,051.93	\$3,150.10	
		Fuel Expense	\$2,705.97	\$2,241.55	\$1,972.20	\$1,967.30	
		Per-Mile Cost	\$7.29	\$5.50	\$5.09	\$5.25	
	1,000 nm	Flight Time	2+20	2+16	2+21	2+20	
		Direct Cost	\$6,713.04	\$5,417.61	\$4,788.26	\$4,956.70	
		Fuel Expense	\$4,030.43	\$3,727.68	\$3,058.24	\$3,053.34	
		Per-Mile Cost	\$6.71	\$5.42	\$4.79	\$4.96	
	Variable Costs (Hourly)	Fuel Expense	\$2,347.59	\$1,644.56	\$1,388.82	\$1,518.08	
		Maintenance Labor Expense	\$348.63	\$146.06	\$165.46	\$199.68	
		Parts Expense	\$338.91	\$137.35	\$108.57	\$153.90	
Miscellaneous Trip Expense		\$462.15	\$462.15	\$462.15	\$462.15		
Total Variable		\$3,497.27	\$2,390.12	\$2,125.00	\$2,333.81		
Fixed Costs (Annual)	Hull Insurance	\$21,275	\$27,300	\$27,300	\$28,600		
	Liability Insurance	\$22,000	\$22,000	\$22,000	\$22,000		
	Hull Insurance per \$100	\$0.12	\$0.13	\$0.13	\$0.13		
	Liability Insurance per \$M	\$110	\$110	\$110	\$110		
	Maintenance Software Programs	\$9,395	\$8,362	\$8,362	\$8,362		
	Miscellaneous Services	\$13,727	\$13,727	\$13,727	\$13,727		
Periodic Costs	Mid-Life/Hot-Section Inspection	\$731,114	\$316,113	\$281,408	\$151,833		
	Engine Overhaul	\$1,243,118	\$1,097,415	\$656,854	\$357,708		
	Overhaul Interval	8,000t	OC	4,200c	4,200c		
	Paint	\$204,643	\$134,219	\$88,695	\$112,761		
	Interior Refurbishment	\$349,173	\$248,388	\$223,107	\$244,085		
	Modernization/Modification/Upgrade	\$70,406	\$70,406	\$70,406	\$70,406		
Personnel Costs	Captain Salary	\$143,790	\$143,790	\$143,790	\$143,790		
	First Officer Salary	\$103,576	\$103,576	\$103,576	\$103,576		
Training	Pilot Initial (Per Pilot)	\$36,458	\$32,726	\$35,711	\$40,287		
	Maintenance Initial	\$21,344	\$8,584	\$10,324	\$10,626		
Facilities (Annual)	Hangar/Office Lease Expense	\$98,282	\$98,282	\$98,282	\$98,282		
	Miscellaneous Office Expense	\$59,558	\$59,558	\$59,558	\$59,558		

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Out-of-Production Aircraft – Category 6 – Ultra-Long-Range Jets

General	Gulfstream Aerospace		Bombardier	Bombardier
	Model	GV	Global Express	Global Express XRS
	Category (1-6)	6	6	6
	Aircraft Bluebook Retail Price (Model Year)	\$14,500,000 (2002)	\$16,500,000 (2005)	\$29,500,000 (2011)
Mission Costs	1,000 nm	Flight Time	2+19	2+13
		Direct Cost	\$7,081.31	\$7,842.95
		Fuel Expense	\$4,219.10	\$4,842.96
		Per-Mile Cost	\$7.08	\$7.84
	3,000 nm	Flight Time	6+42	6+17
		Direct Cost	\$20,050.21	\$22,756.17
		Fuel Expense	\$11,772.45	\$14,252.43
		Per-Mile Cost	\$6.68	\$7.59
	6,000 nm	Flight Time	13+15	12+32
		Direct Cost	\$41,869.95	\$46,205.11
		Fuel Expense	\$25,499.75	\$29,242.76
		Per-Mile Cost	\$6.98	\$7.70
Variable Costs (Hourly)	Fuel Expense	\$1,821.19	\$2,184.80	\$2,256.06
	Maintenance Labor Expense	\$380.67	\$545.96	\$244.83
	Parts Expense	\$342.75	\$295.35	\$87.30
	Miscellaneous Trip Expense	\$512.06	\$512.06	\$512.06
	Total Variable	\$3,056.68	\$3,538.17	\$3,100.25
Fixed Costs (Annual)	Hull Insurance	\$16,675	\$18,975	\$33,925
	Liability Insurance	\$24,000	\$24,000	\$24,000
	Hull Insurance per \$100	\$0.12	\$0.12	\$0.12
	Liability Insurance per \$M	\$120	\$120	\$120
	Maintenance Software Programs	\$9,395	\$7,787	\$7,787
	Miscellaneous Services	\$19,578	\$19,578	\$19,578
Periodic Costs	Mid-Life/Hot-Section Inspection	\$723,138	\$481,416	\$481,416
	Engine Overhaul	\$1,244,421	\$951,090	\$951,090
	Overhaul Interval	8,000t	7,000t	7,000t
	Paint	\$207,652	\$197,796	\$197,796
	Interior Refurbishment	\$353,916	\$353,916	\$353,916
	Modernization/Modification/Upgrade	\$79,837	\$79,837	\$79,837
Personnel Costs	Captain Salary	\$150,175	\$150,175	\$150,175
	First Officer Salary	\$125,042	\$125,042	\$125,042
Training	Pilot Initial (Per Pilot)	\$40,174	\$37,728	\$49,191
	Maintenance Initial	\$19,029	\$25,993	\$26,575
Facilities (Annual)	Hangar/Office Lease Expense	\$104,063	\$104,063	\$104,063
	Miscellaneous Office Expense	\$62,141	\$62,141	\$62,141