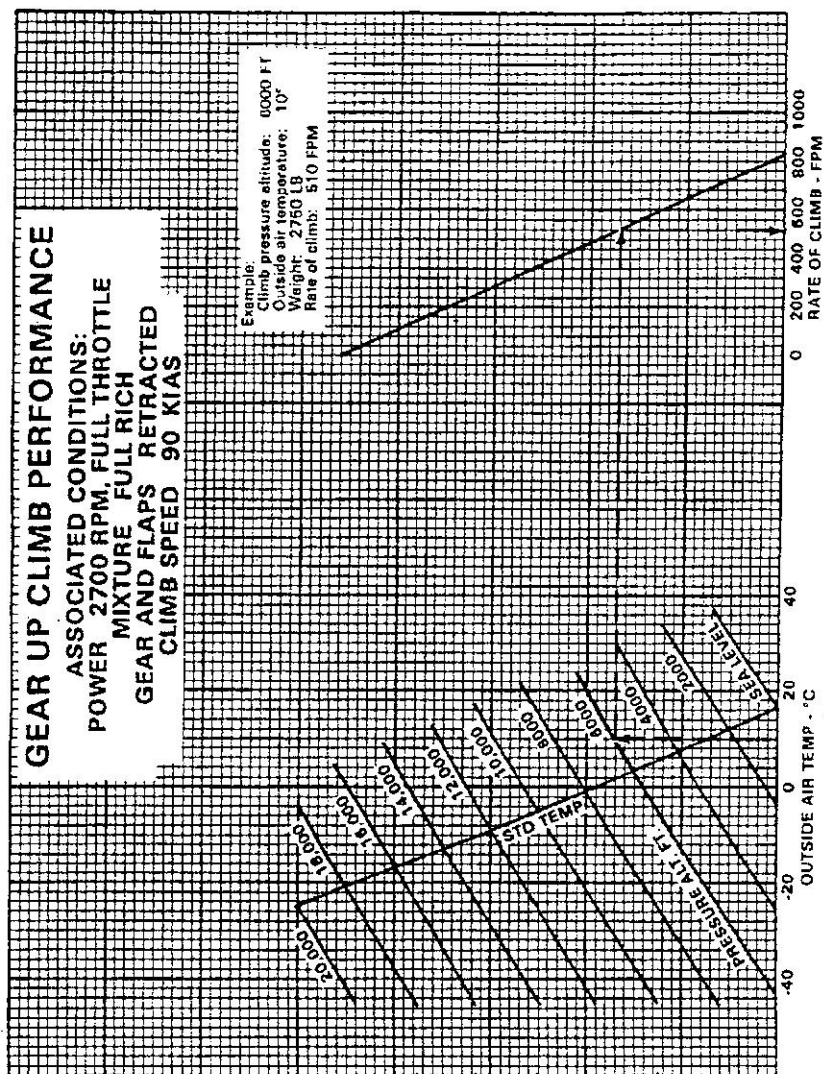
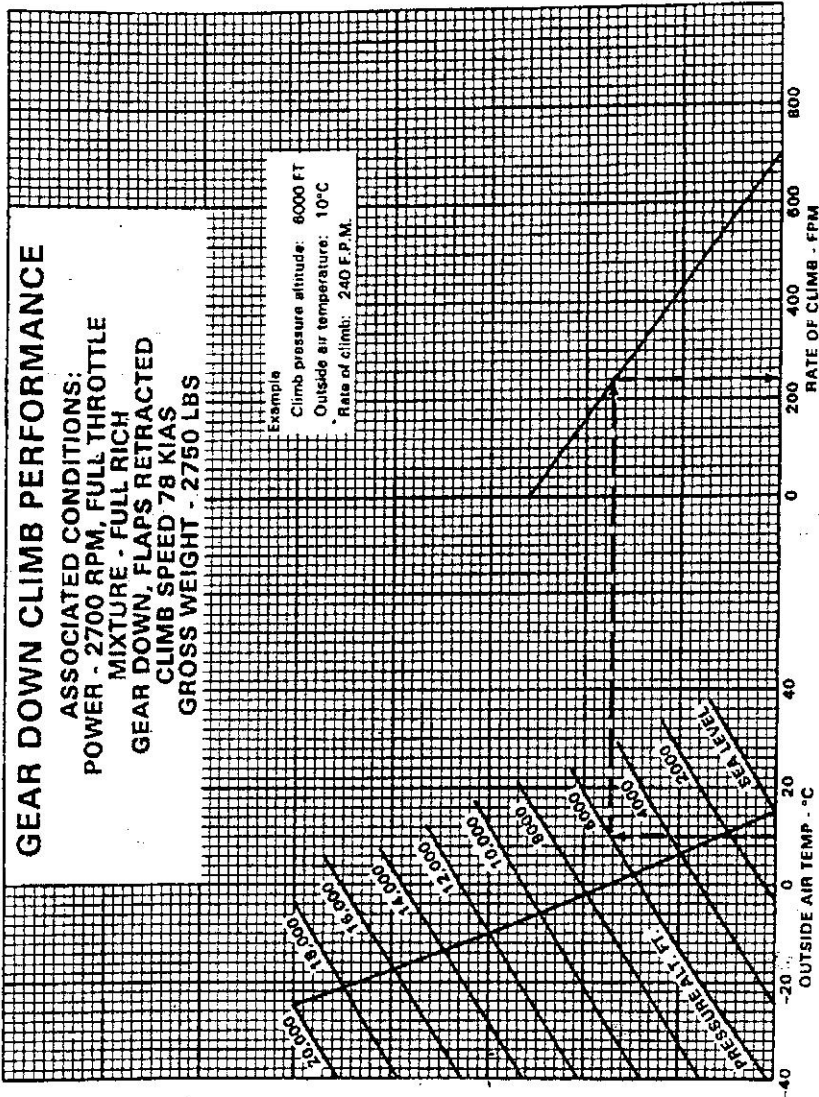


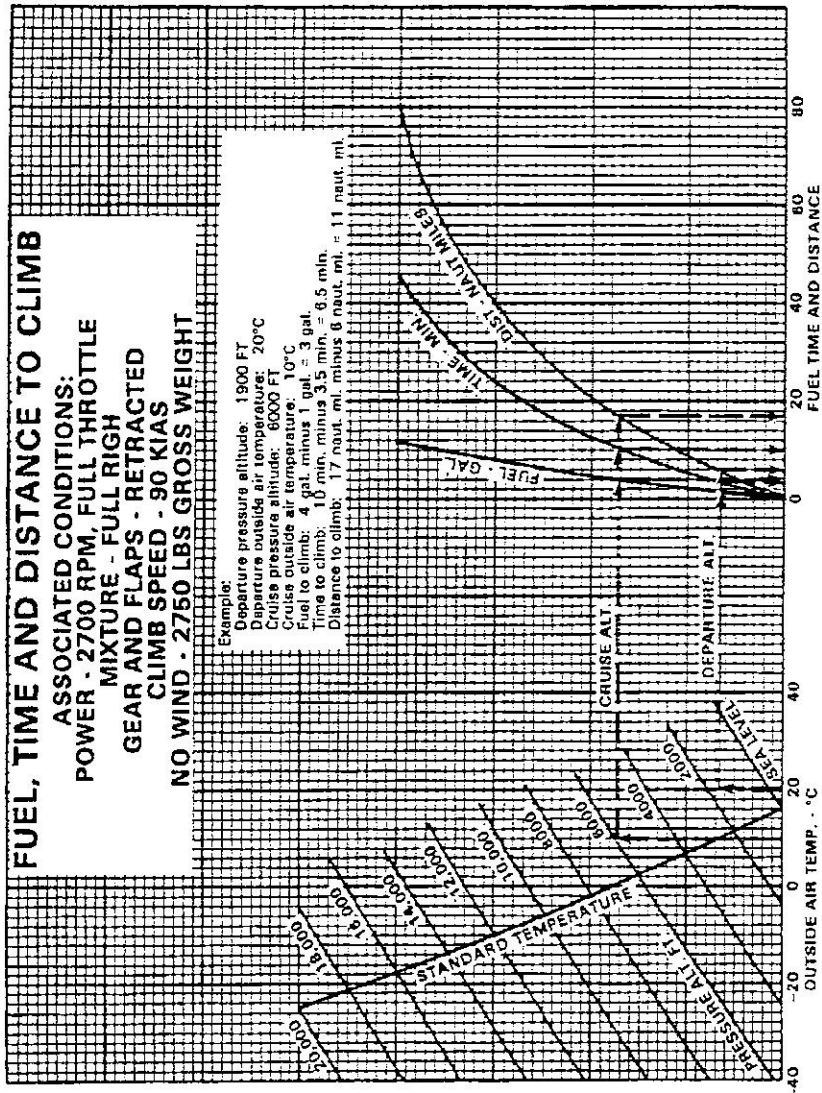


GEAR UP CLIMB PERFORMANCE

Figure 5-17



GEAR DOWN CLIMB PERFORMANCE
Figure 5-19



FUEL, TIME AND DISTANCE TO CLIMB

Figure 5-21

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**Power Setting Table for Lycoming Model IO-360-C1C6
Engine as Installed in PA-28R-201 Arrow Best Power Mixture**

Pressure Altitude	ISA Temperature	55% power 110 BHP @ Prop Mixture Peak EGT + 100° F RPM and Manifold Press.		65% power 130 BHP @ Prop Mixture Peak EGT + 100° F RPM and Manifold Press.		75% power 150 BHP @ Prop Mixture Peak EGT + 100° F RPM and Manifold Press.		Pressure Altitude
		°F	°C	2200 RPM	2500 RPM	2200 RPM	2500 RPM	
Feet								Feet
S.L.	59	15		23.7	21.7	26.1	24.1	S.L.
1000	55	13		23.4	21.4	25.8	23.7	1000
2000	52	11		23.0	21.1	25.4	23.4	2000
3000	48	9		22.6	20.8	25.1	23.1	3000
4000	45	7		22.3	20.5	24.7	22.8	4000
5000	41	5		21.9	20.2	24.3	22.4	5000
6000	38	3		21.6	19.9	24.0	22.1	6000
8000	35	2		21.3	19.7	23.7	21.9	8000
7000	34	1		21.2	19.6	23.6	21.8	7000
7500	32	0		21.0	19.4	F.T.	21.6	7500
8000	30	-1		20.8	19.3		21.5	8000
9000	27	-3		20.5	19.0		21.1	9000
9400	25	-4		20.3	18.9		F.T.	9400
10000	23	-5		F.T.	18.7			10000
11000	19	-7			18.4			11000
12000	16	-9			18.1			12000
13000	12	-11			17.8			13000
14000	9	-13			17.5			14000

Note:

To maintain constant power, correct manifold pressure approximately 0.16" Hg for each 10° F (5.5° C) variation in inlet air temperature from standard altitude temperature. Add manifold pressure for air temperatures above standard; subtract for temperatures below standard. Full throttle manifold pressure values may not be obtainable when atmospheric conditions are non-standard.

POWER SETTING TABLE (Best Power)

Figure 5-23

**Power Setting Table for Lycoming Model IO-360-C1C6
Engine as Installed in PA-28R-201 Arrow Best Economy Mixture**

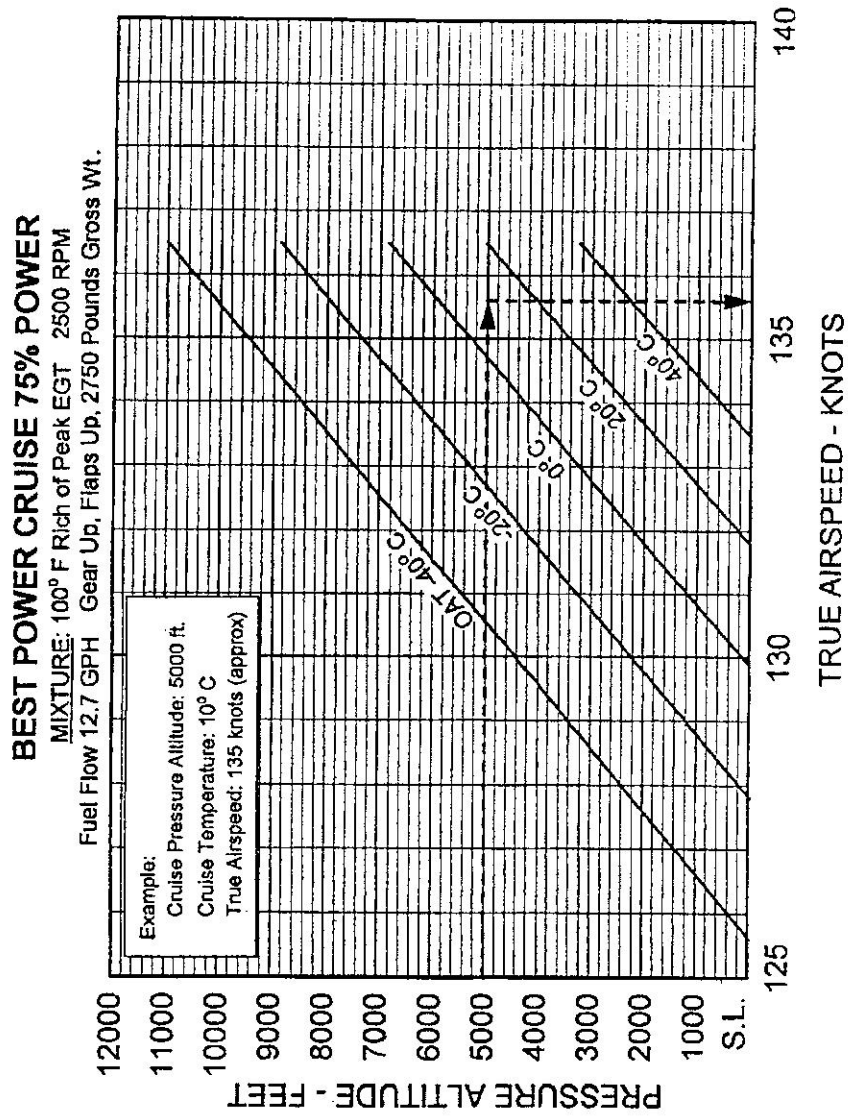
Pressure Altitude	ISA Temperature		55% Power 110 BHP @ Propeller Mixture Peak EGT Manifold Pressure - In. Hg		65% Power 130 BHP @ Propeller Mixture Peak EGT Manifold Pressure - In. Hg		Pressure Altitude
	°F	°C	2200 RPM	2500 RPM	2200 RPM	2500 RPM	
Feet							Feet
S.L.	59	15	24.8	22.2	27.5	24.5	S.L.
1000	55	13	24.4	22.0	27.1	24.3	1000
2000	52	11	24.0	21.8	26.7	24.1	2000
3000	48	9	23.7	21.5	26.3	23.8	3000
4000	45	7	23.3	21.3	26.0	23.6	4000
5000	41	5	22.9	21.1	25.6	23.3	5000
6000	38	3	22.5	20.8	F.T.	23.2	6000
7000	34	1	22.1	20.6		23.1	7000
8000	30	-1	21.8	20.4		22.8	8000
8750	28	-2	21.5	20.2		F.T.	8750
9000	27	-3	F.T.	20.1			9000
10000	23	-5		19.9			10000
11000	19	-7		19.7			11000
12000	16	-8		F.T.			12000

Note:

To maintain constant power, correct manifold pressure approximately 0.16" Hg for each 10° F (5.5° C) variation in inlet air temperature from standard altitude temperature. Add manifold pressure for air temperatures above standard; subtract for temperatures below standard. Full throttle manifold pressure values may not be obtainable when atmospheric conditions are non-standard.

POWER SETTING TABLE (Best Economy)

Figure 5-23a



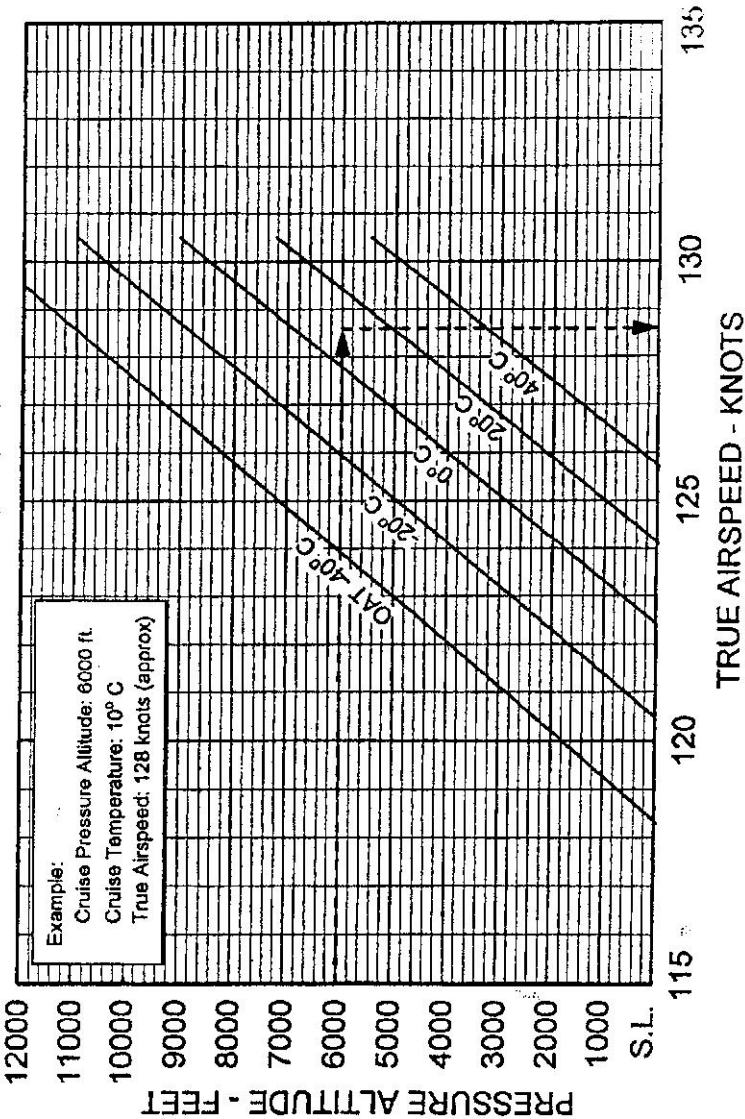
BEST POWER CRUISE (75% Power)

Figure 5-25

BEST POWER CRUISE 65% POWER

MIXTURE: 100° F Rich of Peak EGT 2500 RPM

Fuel Flow 11.4 GPH Gear Up, Flaps Up, 2750 Pounds Gross Wt.



BEST POWER CRUISE (65% Power)

Figure 5-25a

BEST POWER CRUISE 55% POWER

MIXTURE: 100° F Rich of Peak EGT 2500 RPM

Fuel Flow 10.2 GPH Gear Up, Flaps Up, 2750 Pounds Gross Wt.

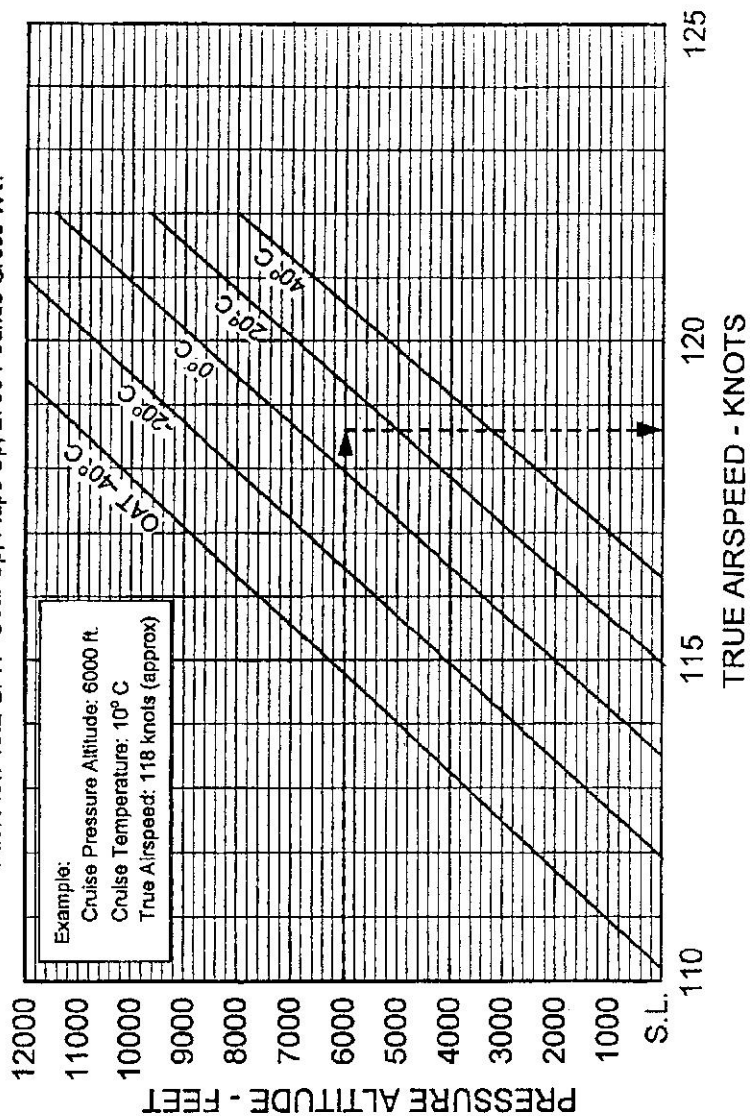
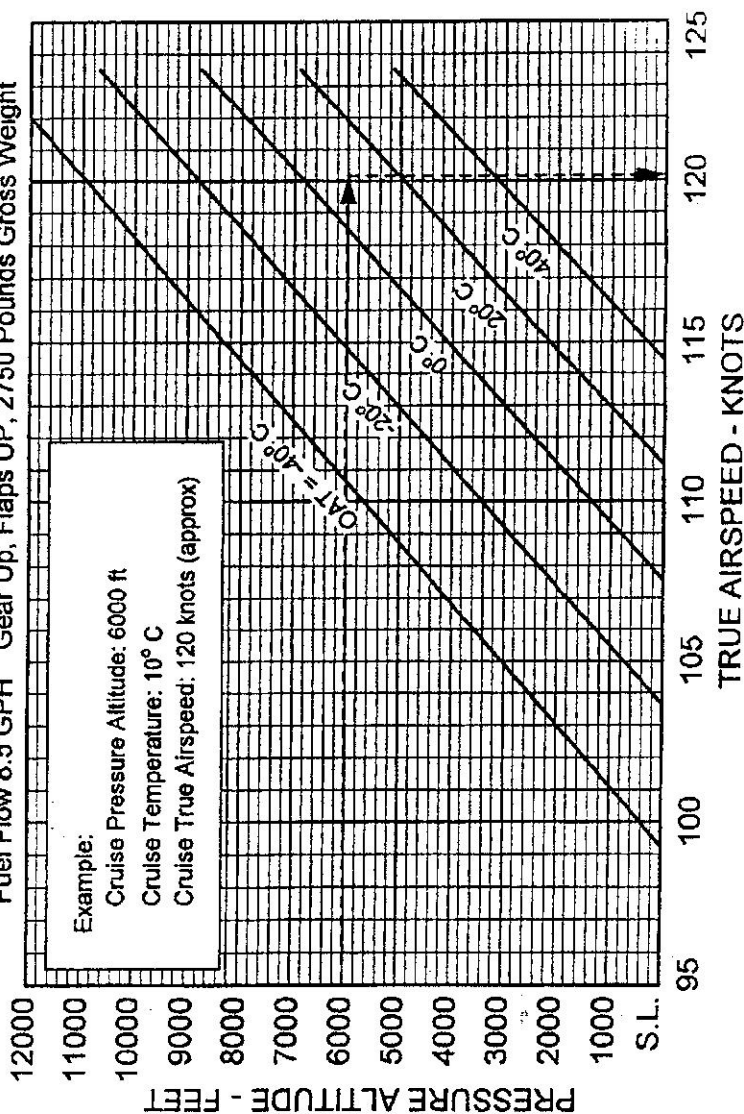
**BEST POWER CRUISE (55% Power)**

Figure 5-25b

ECONOMY CRUISE 55% POWER

MIXTURE: PEAK EGT CRUISE RPM: 2200

Fuel Flow 8.5 GPH Gear Up, Flaps UP, 2750 Pounds Gross Weight



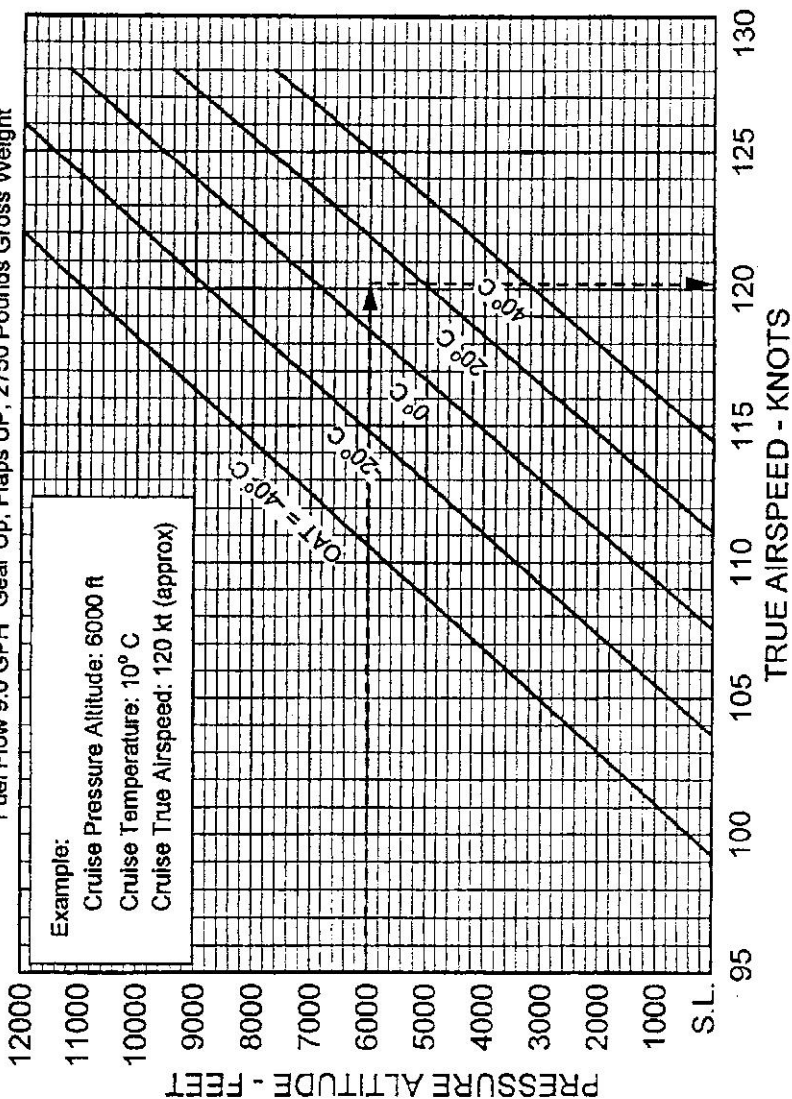
ECONOMY CRUISE (55% Power 2200 RPM)

Figure 5-27

ECONOMY CRUISE 55% POWER

MIXTURE: PEAK EGT CRUISE RPM: 2500

Fuel Flow 9.0 GPH Gear Up, Flaps UP, 2750 Pounds Gross Weight



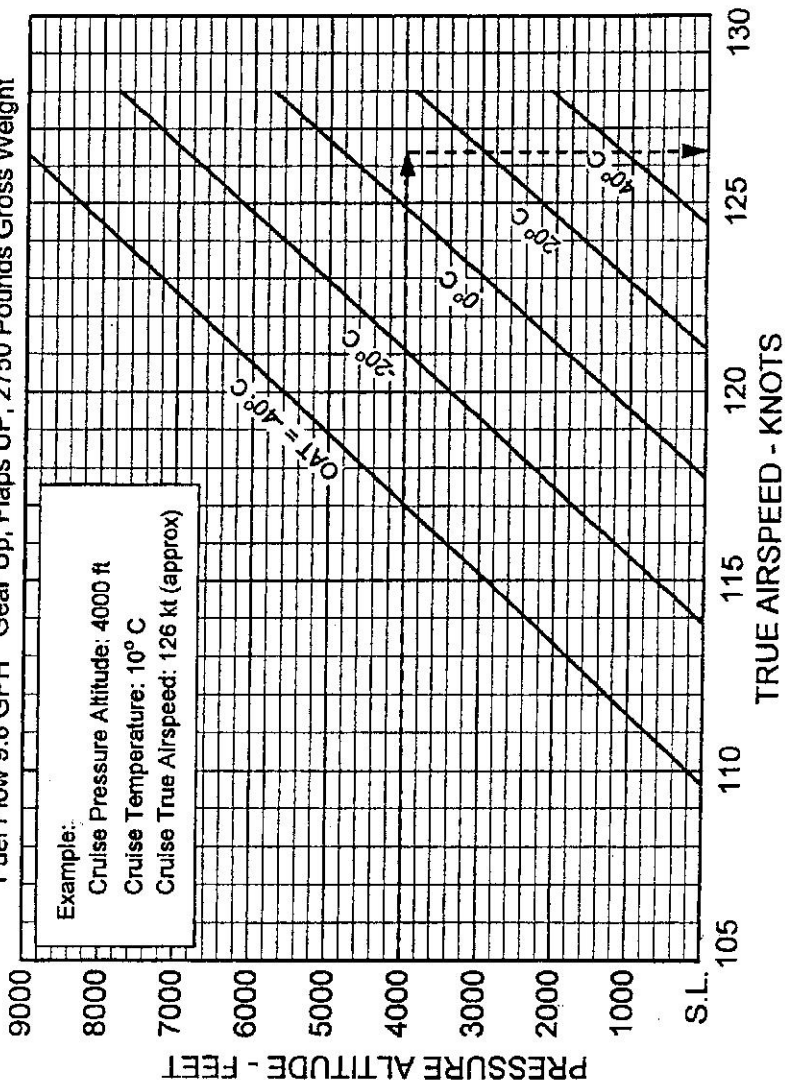
ECONOMY CRUISE (55% Power 2500 RPM)

Figure 5-27a

ECONOMY CRUISE 65% POWER

MIXTURE: PEAK EGT CRUISE RPM: 2200

Fuel Flow 9.8 GPH Gear Up, Flaps Up, 2750 Pounds Gross Weight

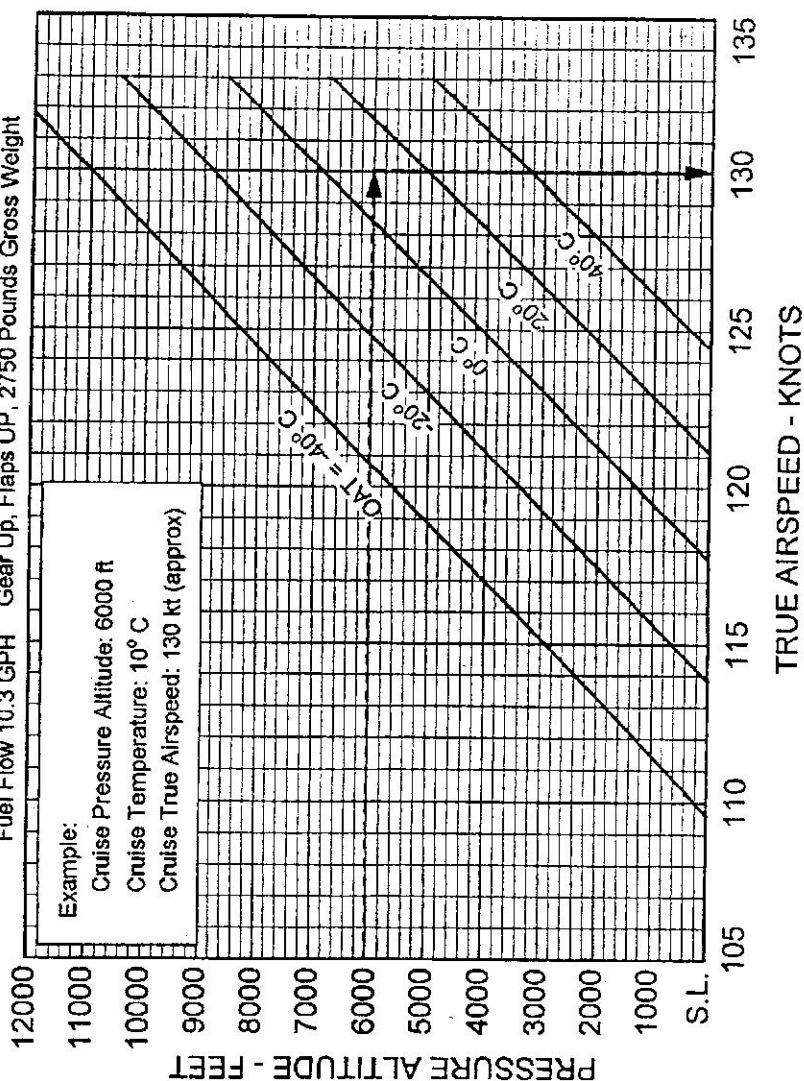


ECONOMY CRUISE (65% Power 2200 RPM)

Figure 5-27b

ECONOMY CRUISE 65% POWER

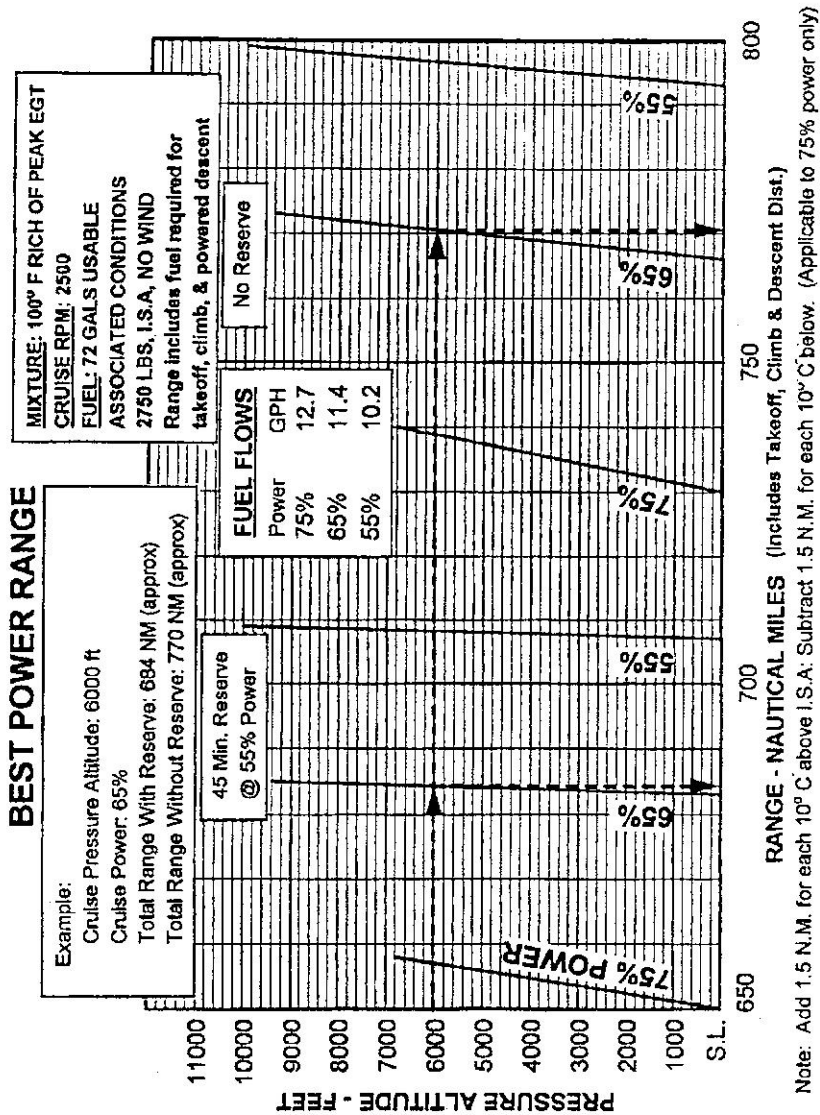
MIXTURE: PEAK EGT **CRUISE RPM:** 2500
Fuel Flow 10.3 GPH **Gear Up, Flaps UP, 2750 Pounds Gross Weight**



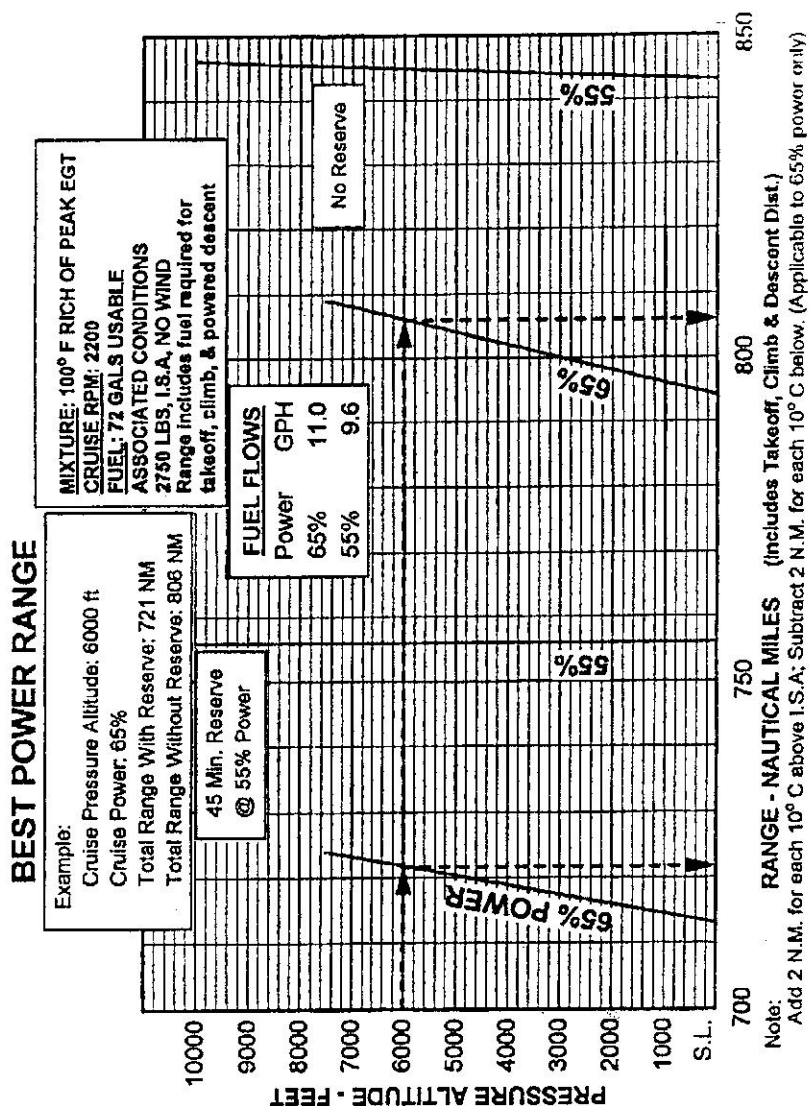
ECONOMY CRUISE (65% Power 2500 RPM)

Figure 5-27c

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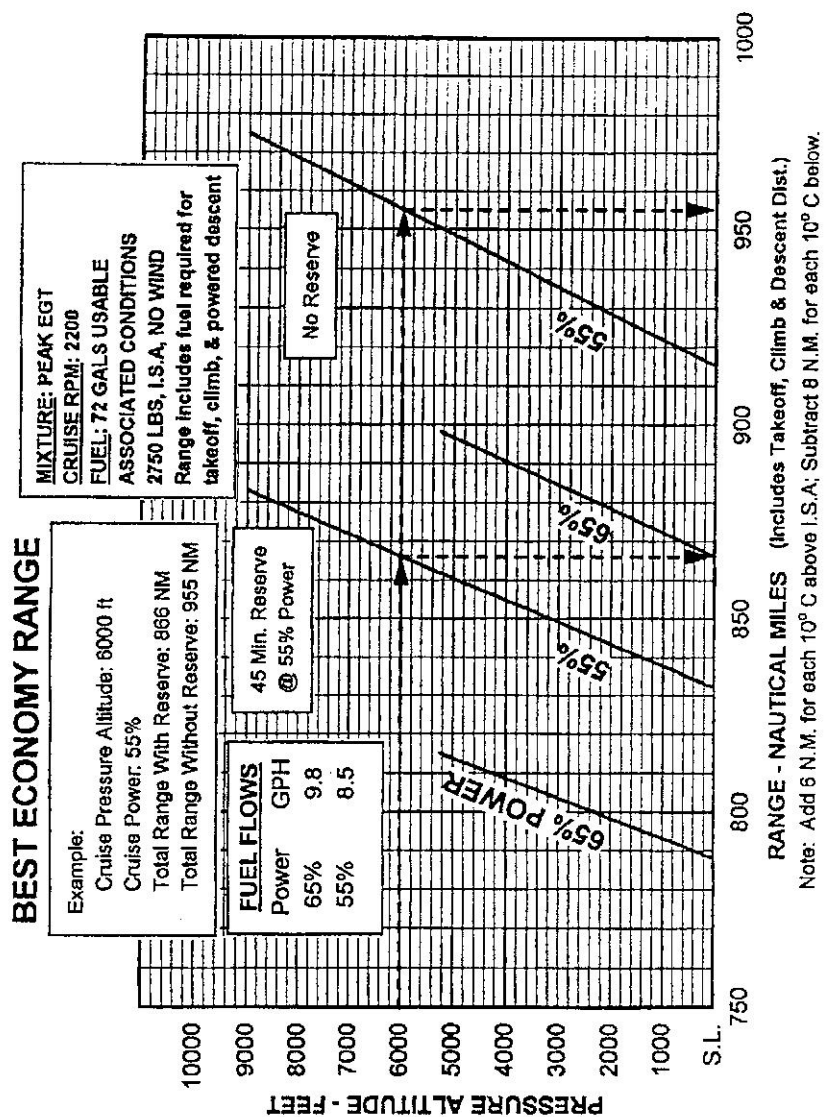


BEST POWER RANGE (2500 RPM)
Figure 5-29



BEST POWER RANGE (2200 RPM)

Figure 5-29a



BEST ECONOMY RANGE (2200 RPM)

Figure 5-31

PA-28R-201, ARROW



Figure 5-31a

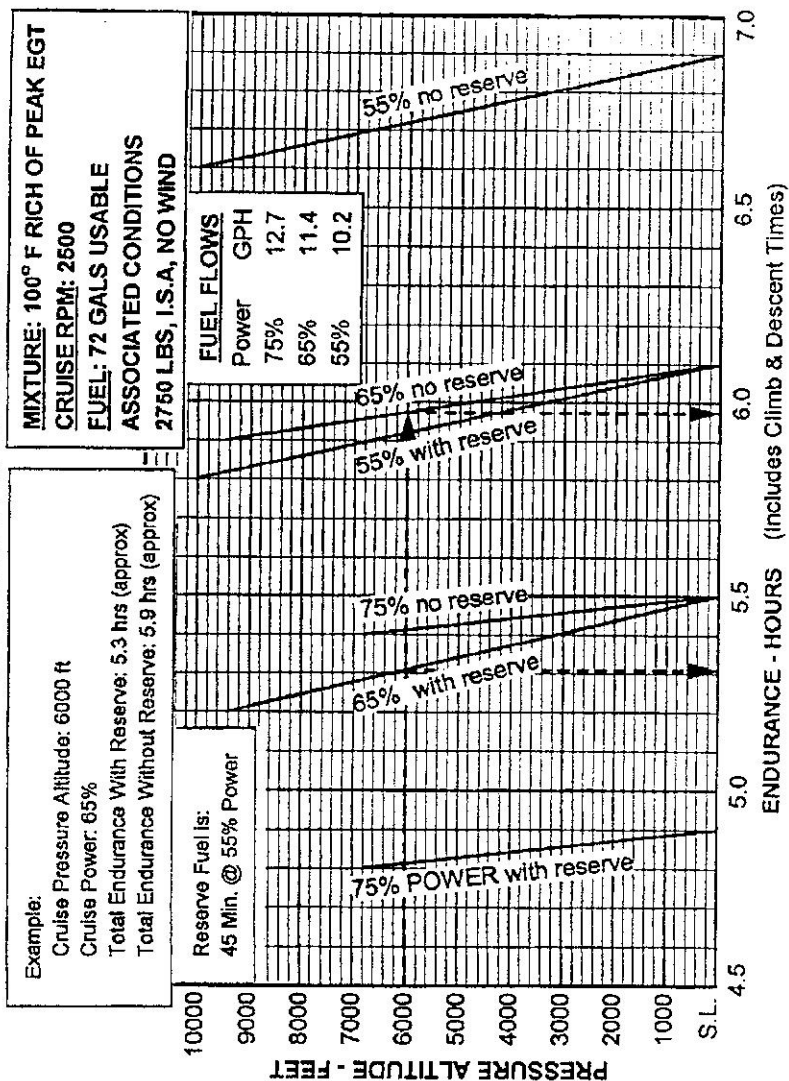
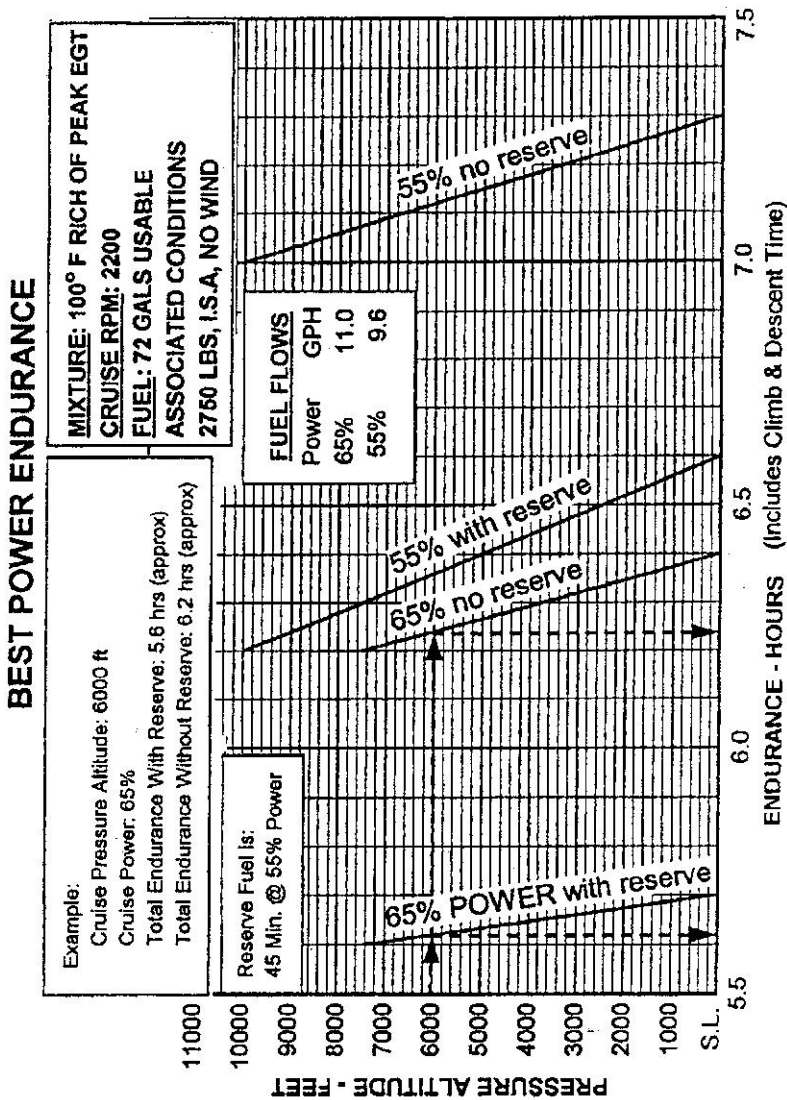
BEST POWER ENDURANCE**BEST POWER ENDURANCE (2500 RPM)**

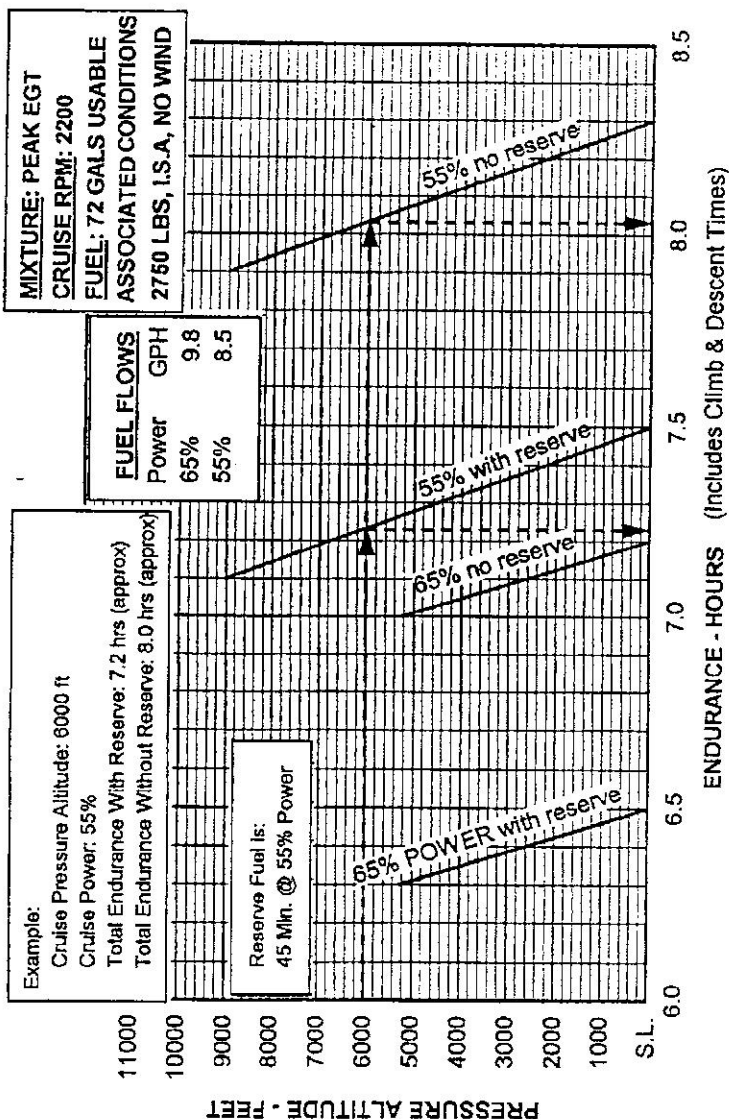
Figure 5-33



BEST POWER ENDURANCE (2200 RPM)

Figure 5-33a

BEST ECONOMY ENDURANCE



BEST ECONOMY ENDURANCE (2200 RPM)

Figure 5-33b