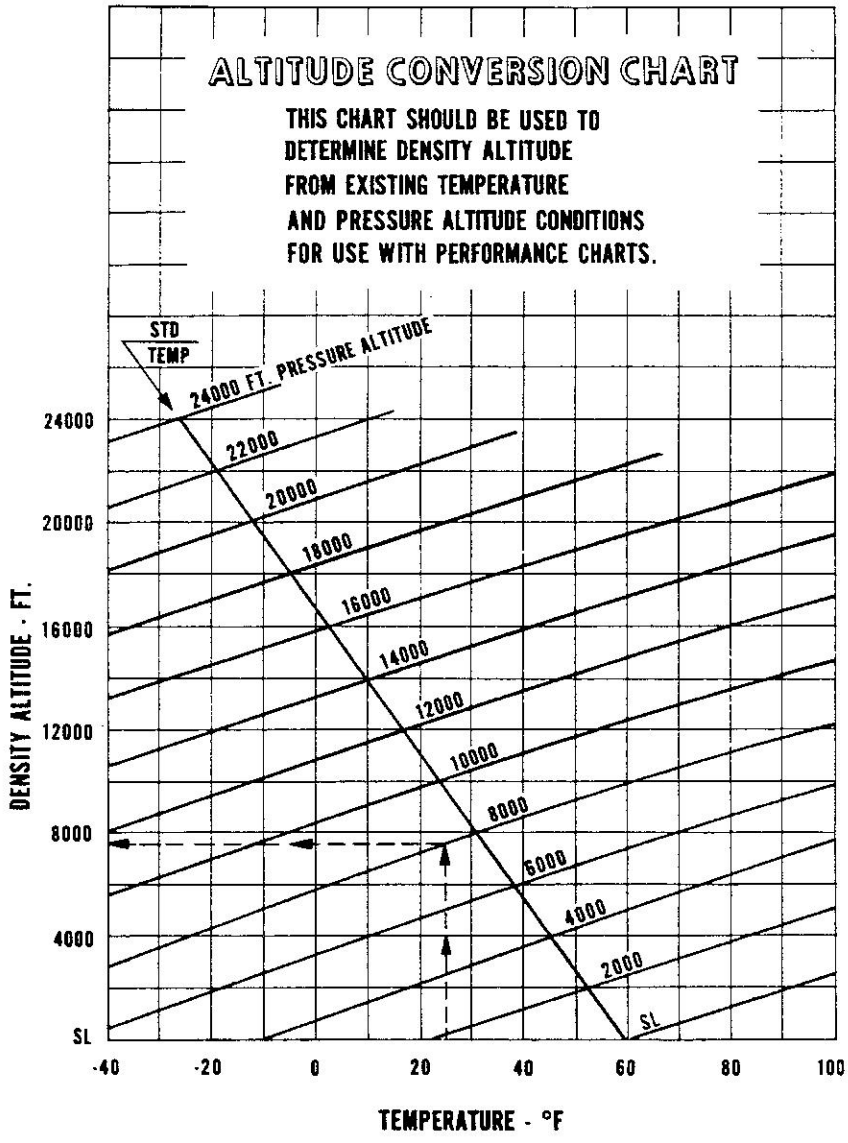
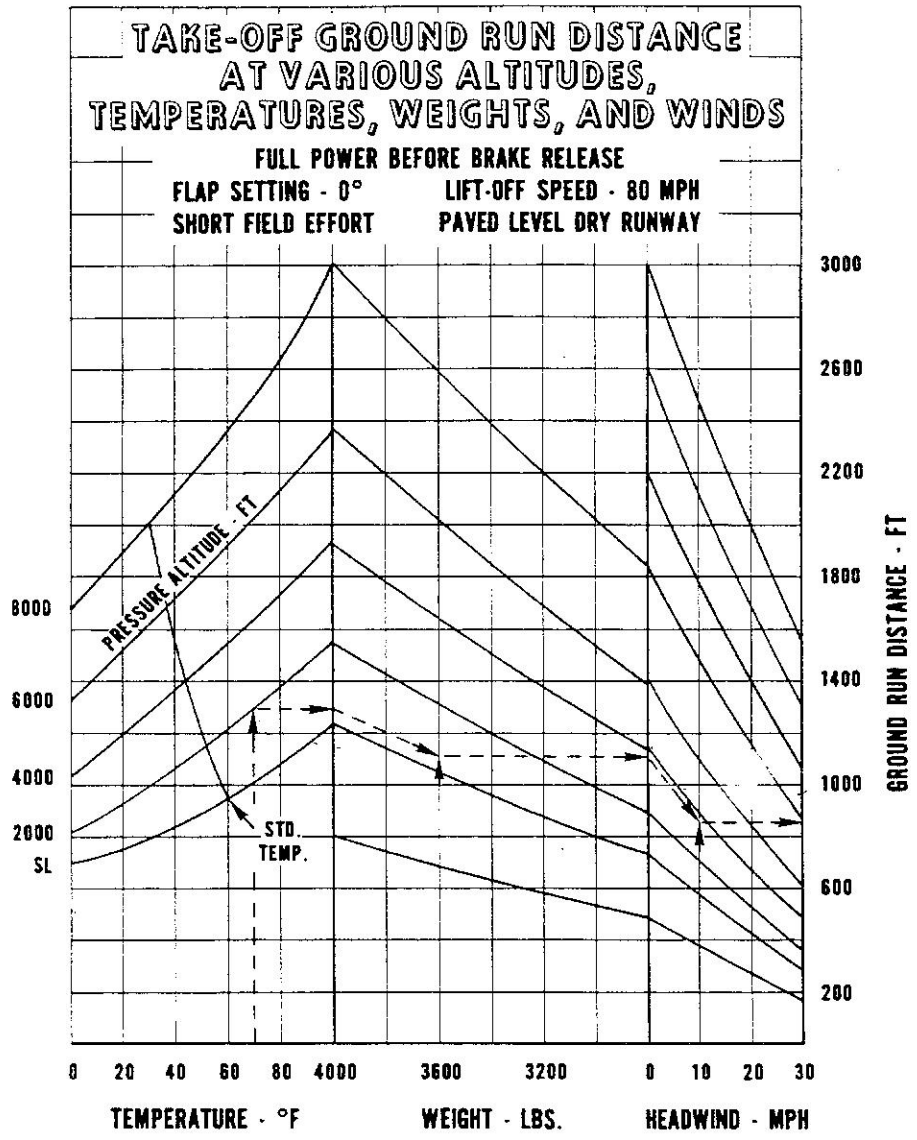
PERFORMANCE CHARTS

WARNING

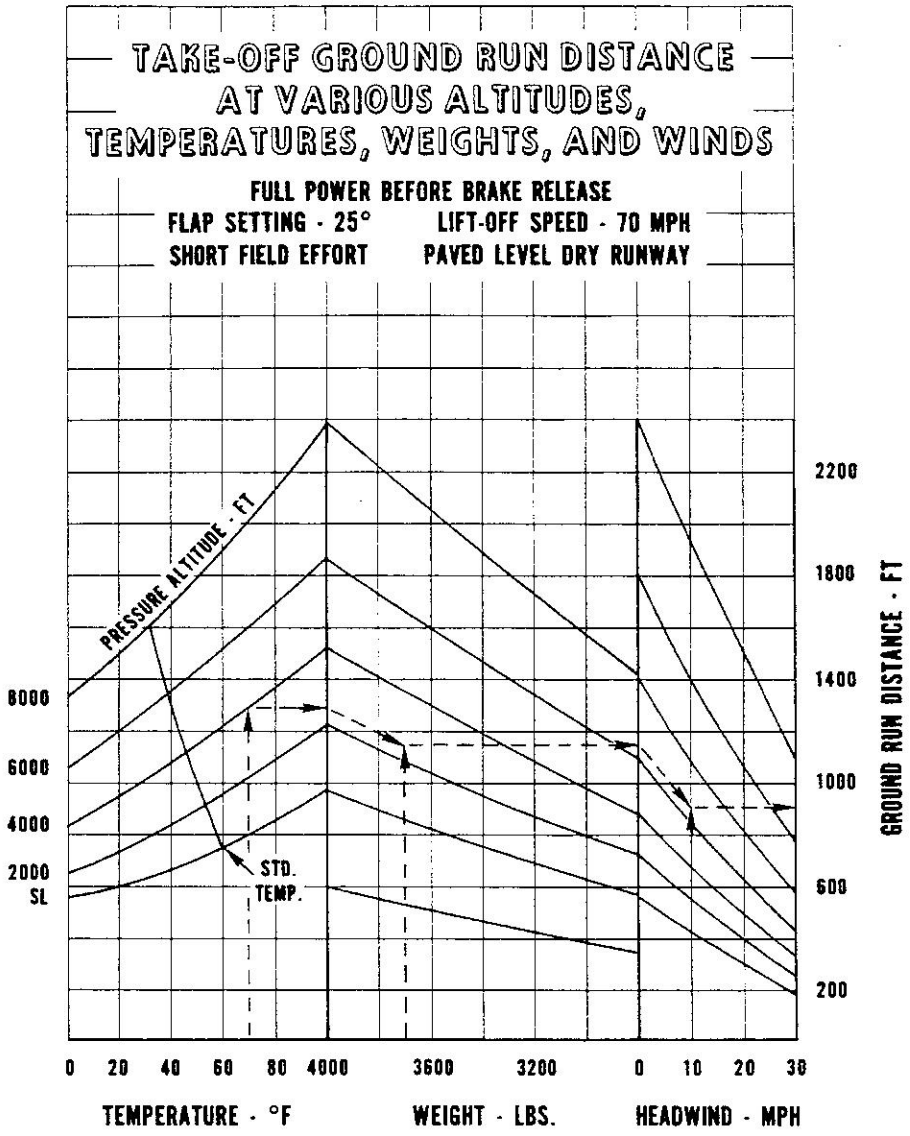
Performance information derived by extrapolation beyond the limits shown on the charts should not be used for flight planning purposes.



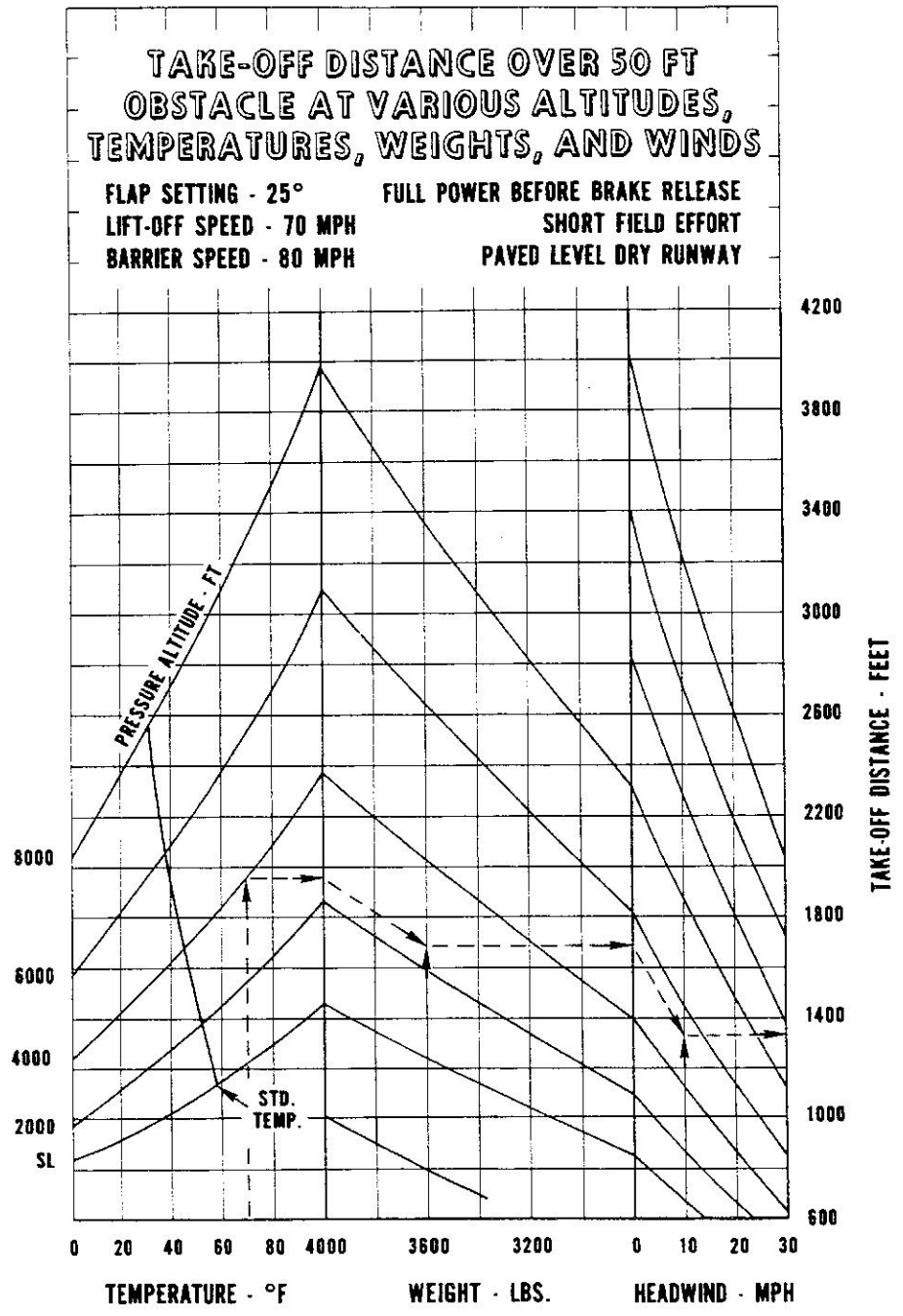
Example: Temp. 25° F Press. Alt. 8000 Ft.
Density Alt. 7500 Ft.



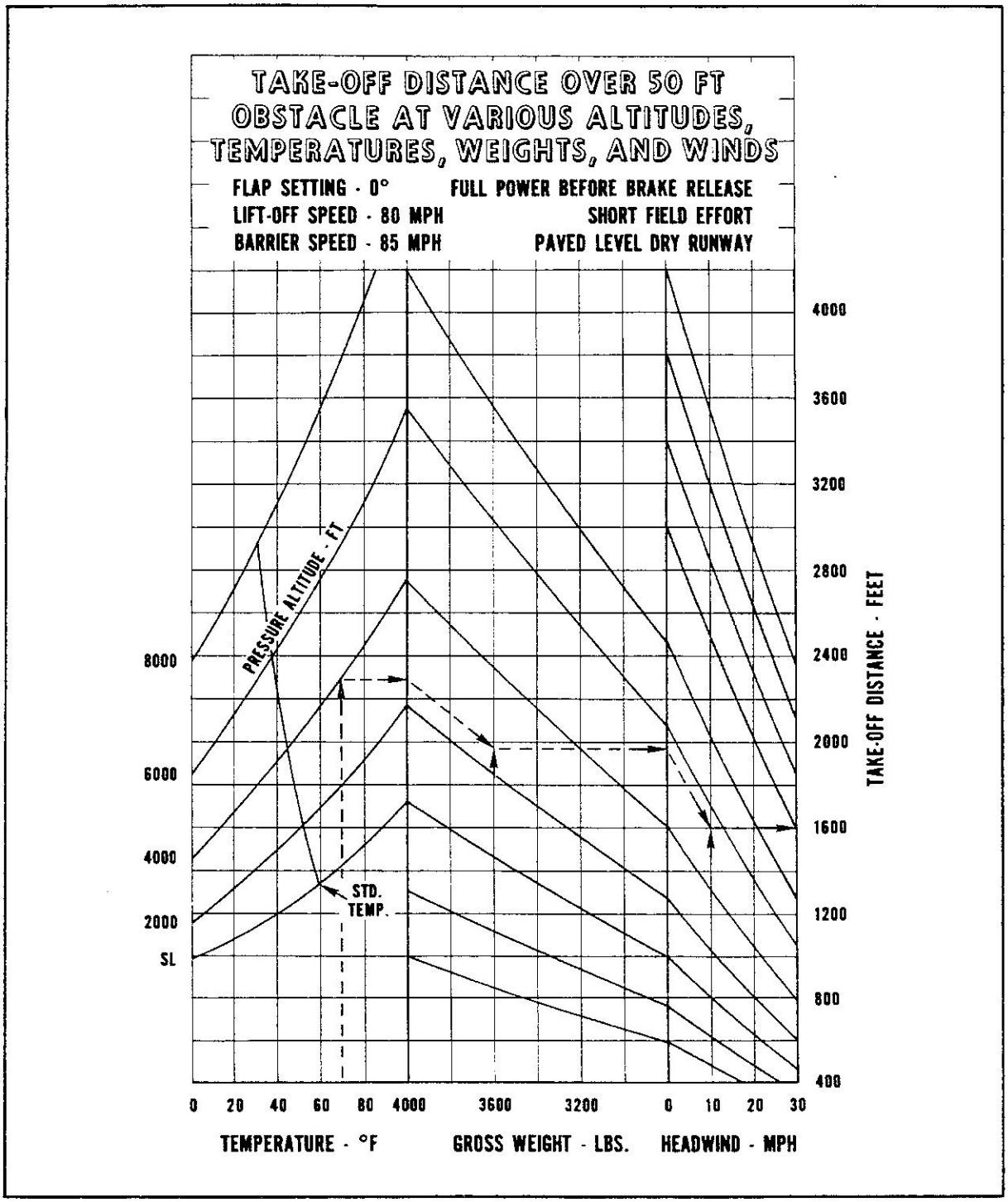
Example: Temp. 70° F Wt. 3600 lbs. Ground run 850 Ft.
Press. Alt. 2000 Ft. Hd. wind 10 MPH



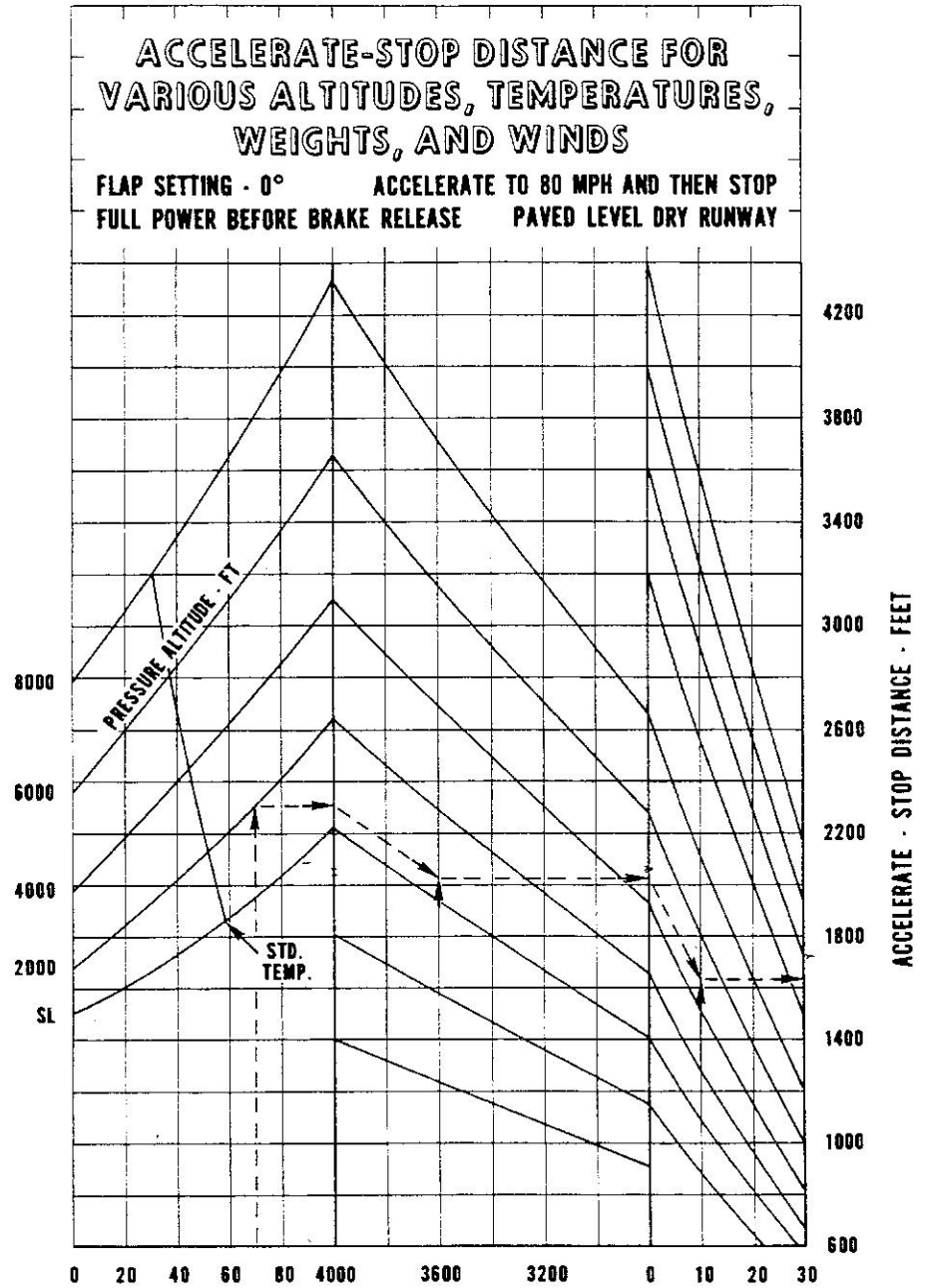
Example: Temp. 70° F Wt. 3700 lbs Ground Run 900 ft
Press. Alt. 4000 ft Hd. wind 10 MPH



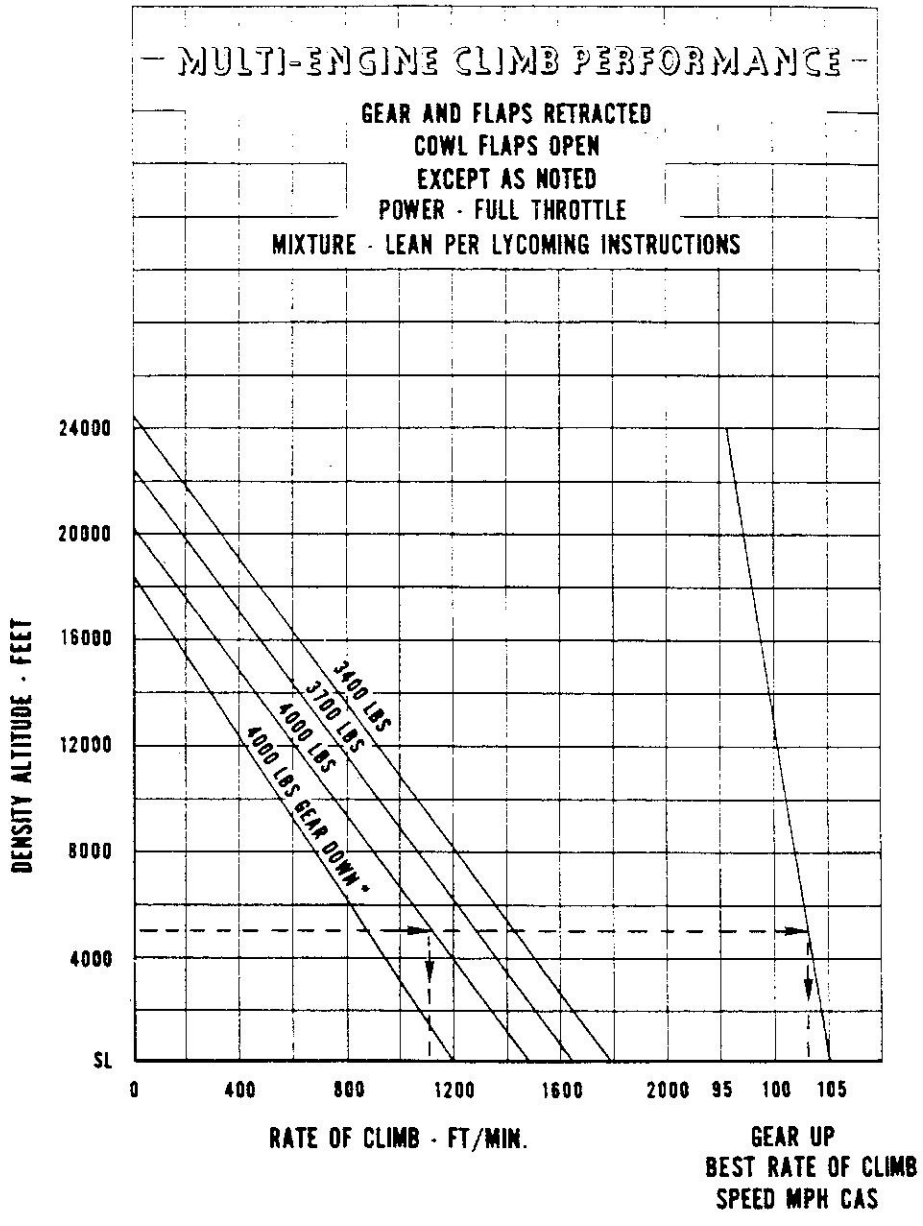
Example: Temp. 70° F Wt. 3600 lbs T. O. Dist. 1350 ft
Press. Alt. 4000 ft Hd. wind 10 MPH



Example: Temp. 70° F Wt. 3600 lbs T. O. Dist. 1600 ft
Press. Alt. 4000 ft Hd. wind 10 MPH

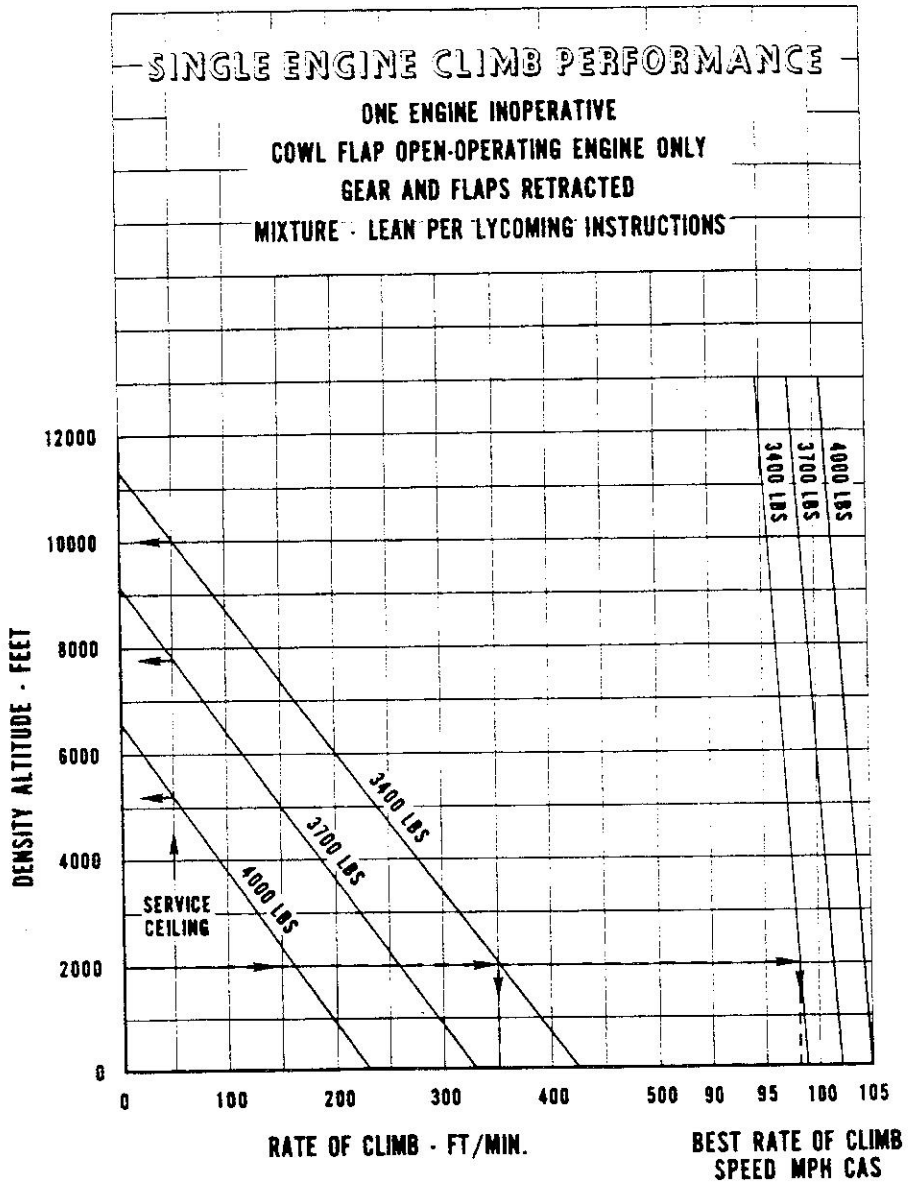


Example: Temp. 70° F Wt. 3600 lbs Accel. - Stop Dist. 1630 ft
Press. Alt. 2000 ft Hd. wind 10 MPH

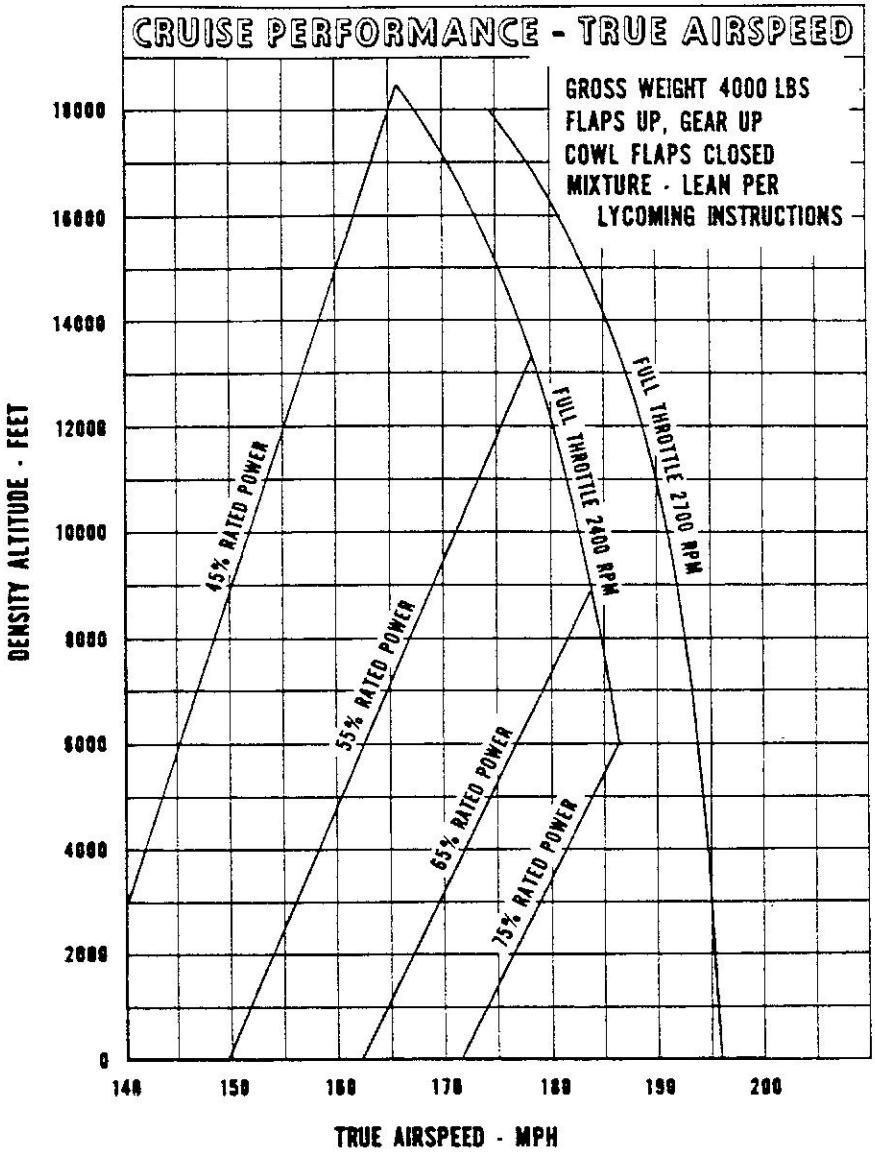


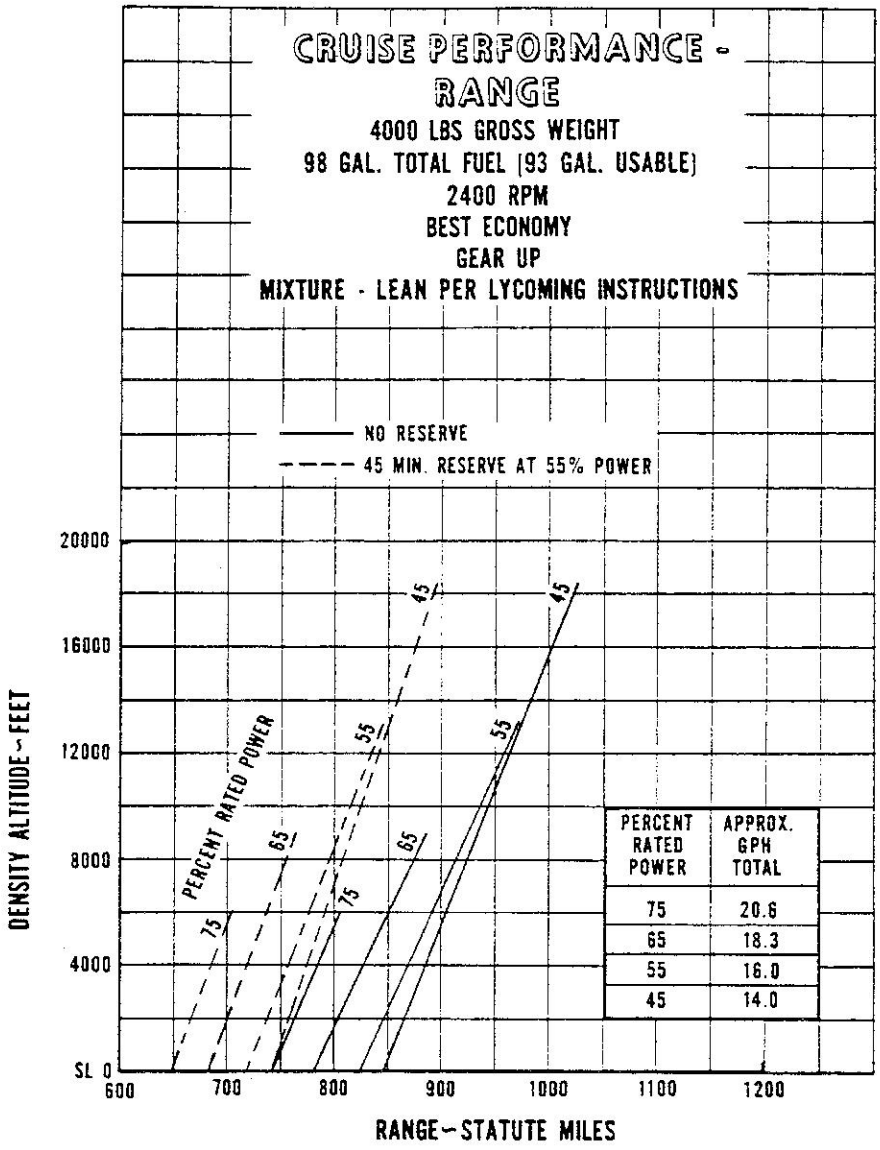
*Gear down best rate of climb speed is 92 MPH CAS at all altitudes.

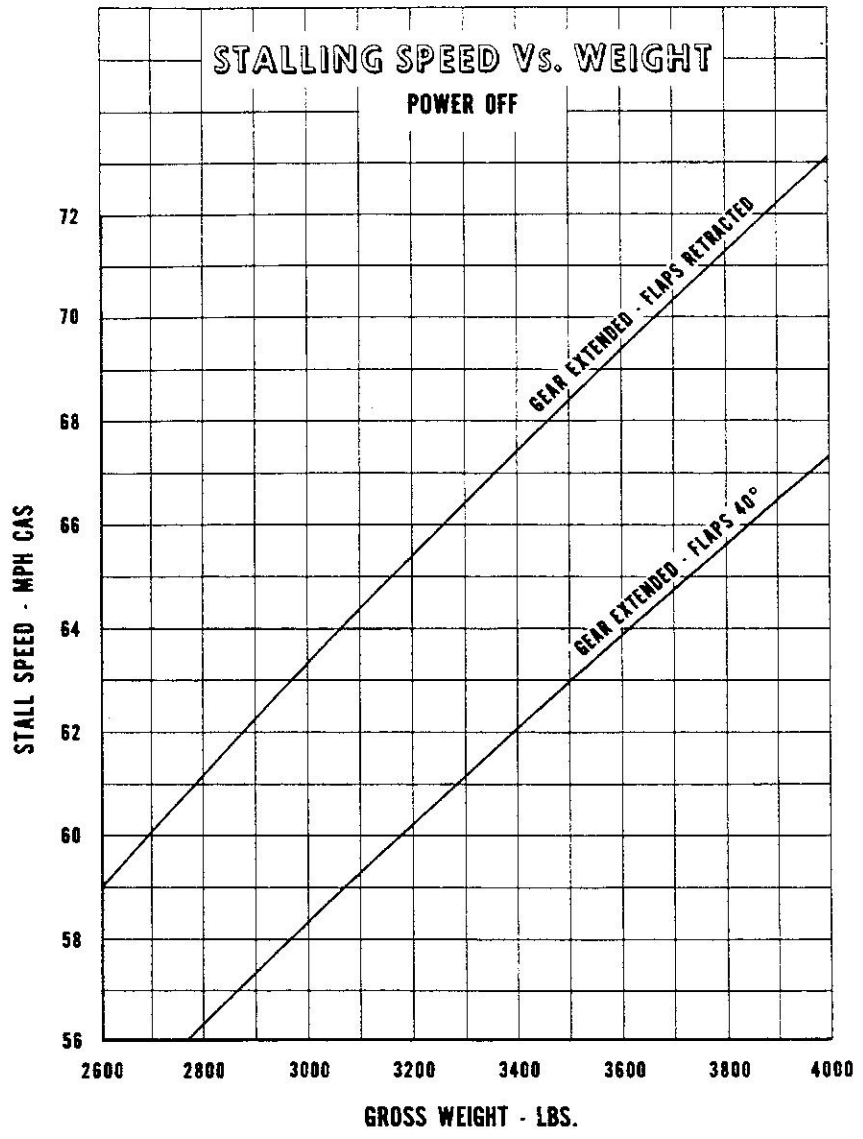
Example: Wt. 4000 lbs. Rate of Climb 1100 ft/min
Den. Alt. 5000 ft Best R/C Speed 103 MPH
(Gear Up)

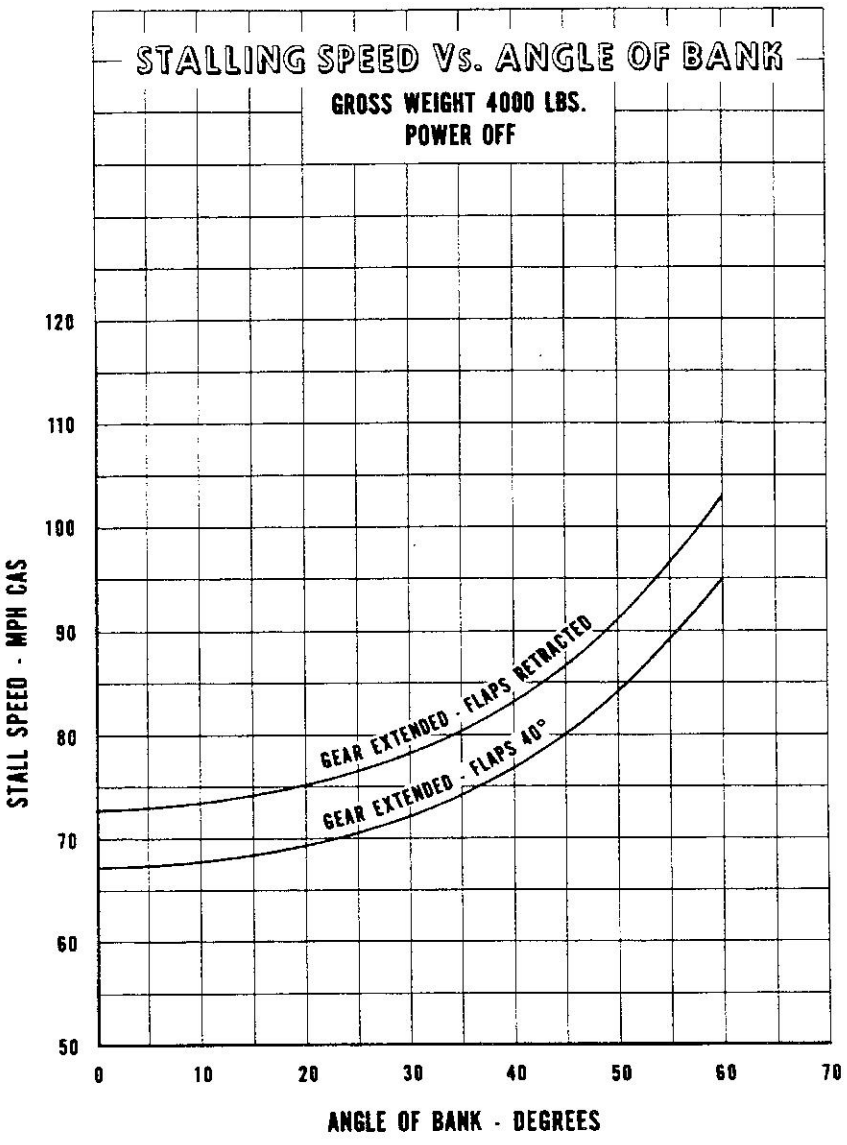


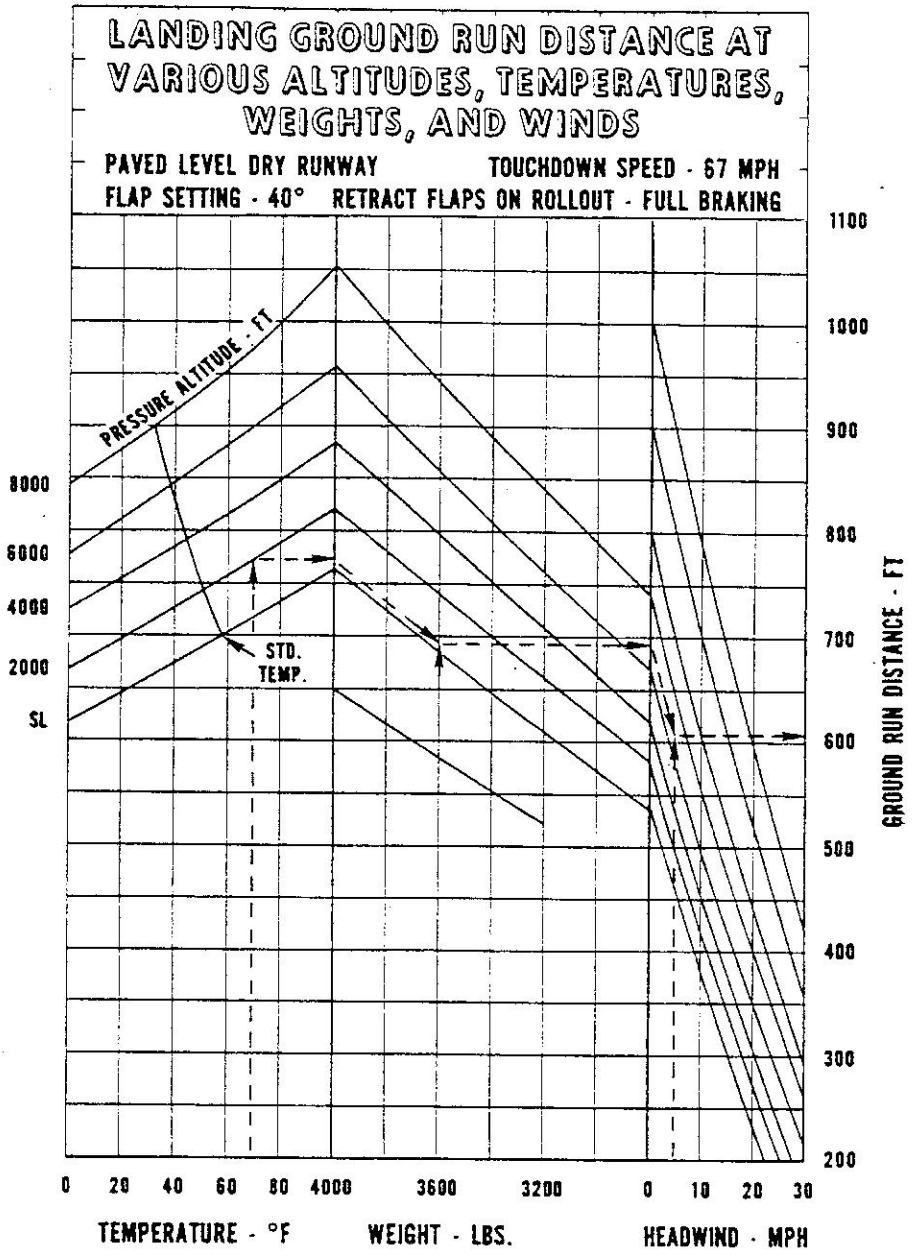
Example: Wt. 3400 lbs Rate of Climb 350 ft/min
Den. Alt. 2000 ft Best R/C Speed 98 MPH


CRUISE PERFORMANCE - TRUE AIRSPEED
GROSS WEIGHT 4000 LBS
FLAPS UP, GEAR UP
COWL FLAPS CLOSED
MIXTURE - LEAN PER
LYCOMING INSTRUCTIONS
DENSITY ALTITUDE - FEET
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
45% RATED POWER
55% RATED POWER
65% RATED POWER
75% RATED POWER
FULL THROTTLE 2400 RPM
FULL THROTTLE 2700 RPM
140
150
160
170
180
190
200
TRUE AIRSPEED - MPH


CRUISE PERFORMANCE - RANGE
4000 LBS GROSS WEIGHT
98 GAL. TOTAL FUEL (93 GAL. USABLE)
2400 RPM
BEST ECONOMY
GEAR UP
MIXTURE - LEAN PER LYCOMING INSTRUCTIONS
NO RESERVE
45 MIN. RESERVE AT 55% POWER
DENSITY ALTITUDE - FEET
20000
16000
12000
8000
4000
SL 0
600
700
800
900
1000
1100
1200
RANGE - STATUTE MILES
PERCENT RATED POWER
75
65
55
45
PERCENT RATED POWER
APPROX. GPH TOTAL
75 20.6
65 18.3
55 16.0
45 14.0

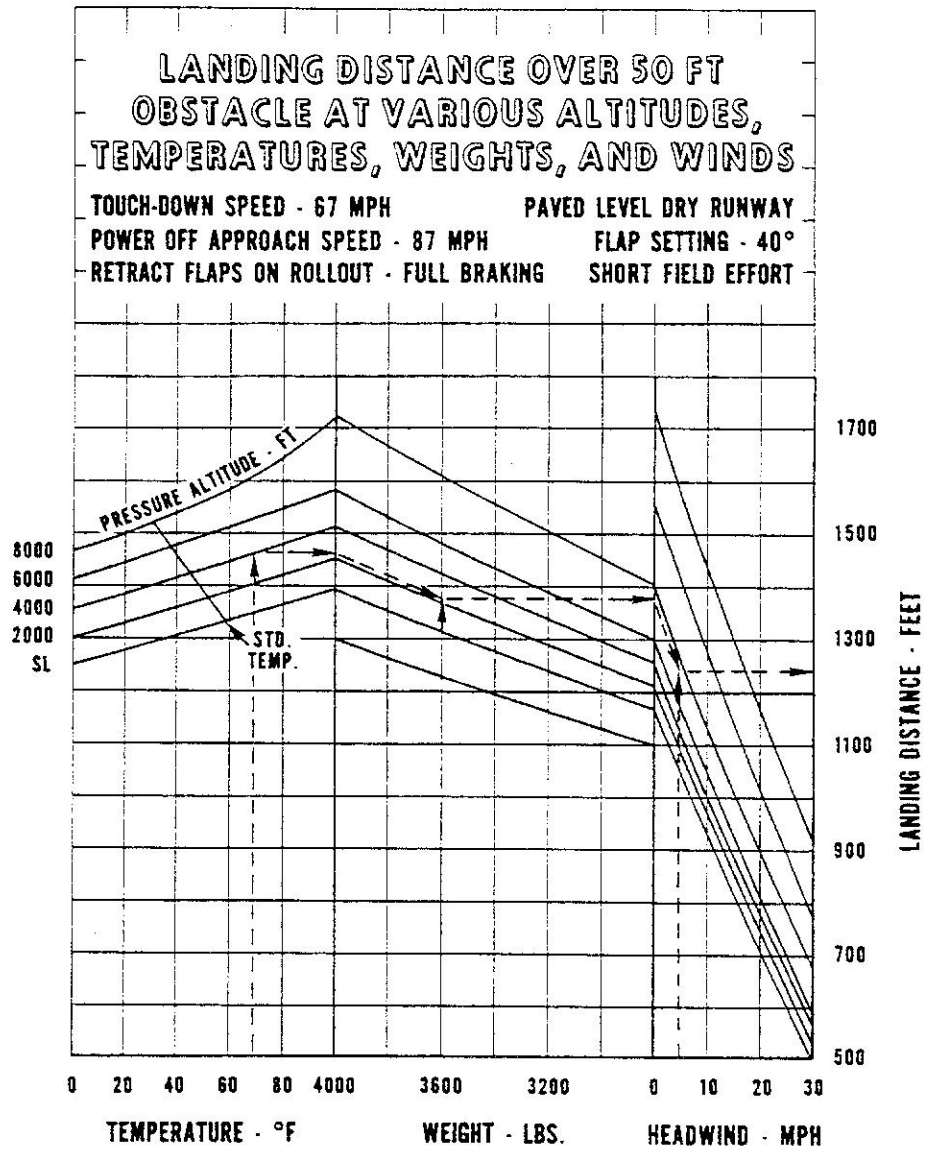

STALLING SPEED Vs. WEIGHT
POWER OFF
GEAR EXTENDED - FLAPS RETRACTED
GEAR EXTENDED - FLAPS 40°
STALL SPEED - MPH CAS
72
70
68
66
64
62
60
58
56
2600
2800
3000
3200
3400
3600
3800
4000
GROSS WEIGHT - LBS.


STALLING SPEED Vs. ANGLE OF BANK
GROSS WEIGHT 4000 LBS.
POWER OFF
STALL SPEED - MPH CAS
120
110
100
90
80
70
60
50
GEAR EXTENDED - FLAPS RETRACTED
GEAR EXTENDED - FLAPS 40°
0
10
20
30
40
50
60
70
ANGLE OF BANK - DEGREES



NOTE: The above distances may be reduced by approximately 25% when the aircraft is equipped with Heavy Duty Wheels, Tires and Brakes. (Reference Aircraft Equipment List in Weight and Balance Section of this Manual.)

Example: Temp. 70° F Wt. 3600 lbs Ground Run 615 ft
Press. Alt. 2000 ft Hd. wind 5 MPH



NOTE: The above distances may be reduced by approximately 12% when the aircraft is equipped with Heavy Duty Wheels, Tires and Brakes. (Reference Aircraft Equipment List in Weight and Balance Section of this Manual.)

Example: Temp. 70° F Wt. 3600 lbs. Landing Dist. 1240 ft
Press. Alt. 4000 ft Hd. wind 5 MPH

Power Setting Table - Lycoming Model IO-360-C Series, 200 HP Engine

Press. Alt Feet	Std. Alt Temp °F	110 HP – 55% Rated RPM AND MAN. PRESS. 2100	2400	130 HP – 65% Rated RPM AND MAN. PRESS. 2100	2400	150 HP – 75% Rated RPM AND MAN. PRESS. 2400	Press. Alt Feet
SL	59	22.9	20.4	25.9	22.9	25.5	SL
1,000	55	22.7	20.2	25.6	22.7	25.2	1,000
2,000	52	22.4	20.0	25.4	22.5	25.0	2,000
3,000	48	22.2	19.8	25.1	22.2	24.7	3,000
4,000	45	21.9	19.5	24.8	22.0	24.4	4,000
5,000	41	21.7	19.3	FT	21.7	FT	5,000
6,000	38	21.4	19.1	--	21.5	--	6,000
7,000	34	21.2	18.9	--	21.3	--	7,000
8,000	31	21.0	18.7	--	21.0		8,000
9,000	27	FT	18.5	--	FT		9,000
10,000	23	--	18.3				10,000
11,000	19	--	18.1				11,000
12,000	16	--	17.8				12,000
13,000	12	--	17.6				13,000
14,000	9	--	FT				14,000

To maintain constant power, correct manifold pressure approximately 0.16" Hg for each 10° F variation in inlet air temperature from standard altitude temperature. Add manifold pressure for air temperatures above standard; subtract for temperatures below standard.