

N6644Y Performance Card

This performance card is designed for you to calculate performance, weight & balance numbers for your for your checkride.

Step 1

Import the aircraft profile for N6644Y into ForeFlight. Complete a weight and balance calculation using the following information.

Plot - **Your Weight**

Co-Pilot - **200 lbs.**

Seats 3 & 4 - **0 lbs.**

Seats 5 & 6 - **0 lbs.**

Nose Baggage - **10 lbs.**

Aft Baggage - **25 lbs.**

Fuel Tanks - **140 gallons**

Step 2

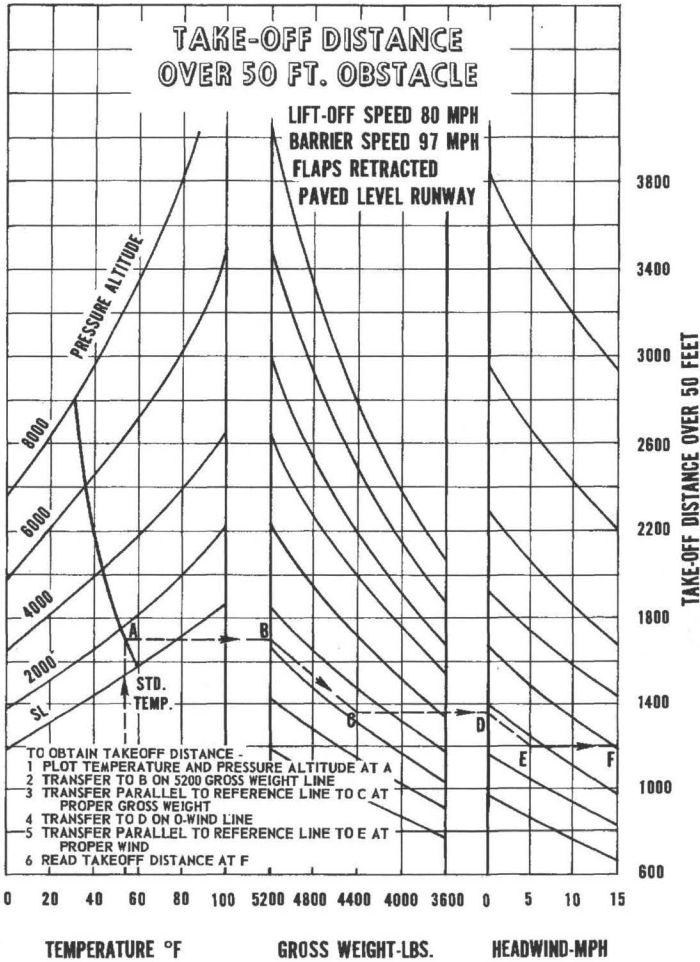
Email the Weight and Balance Summary to yourself and print out

Step 3

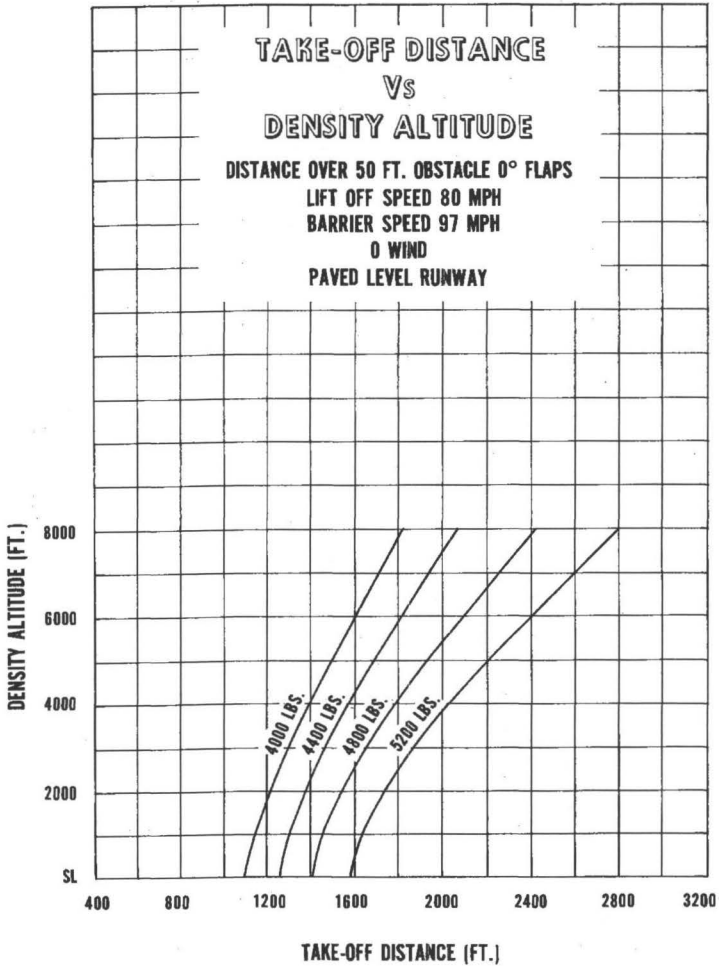
Complete the following performance calculations using the calculated weight from steps 1 & 2. Performance charts from the Owner's Manual are provided on subsequent pages.

Density Altitude	FT
Takeoff Distance over 50 ft. Obstacle	FT
Takeoff Distance Based on Density Altitude One for current/forecasted and one at 8000 ft density altitude	FT
Accelerate-Stop Distance	FT
Multi Engine Climb Rate	FPM
Single Engine Climb Rate	FPM
Range	NM
Stall Speed - Straight and Level	MPH
Stall Speed - 10, 20 30 degrees of bank	MPH
Landing Distance over 50 ft. Obstacle	FT
Landing Distance Based on Density Altitude One for current/forecasted and one at 8000 ft density altitude	FT
Fuel Consumption - 24" MP / 2400 RPM	GPH

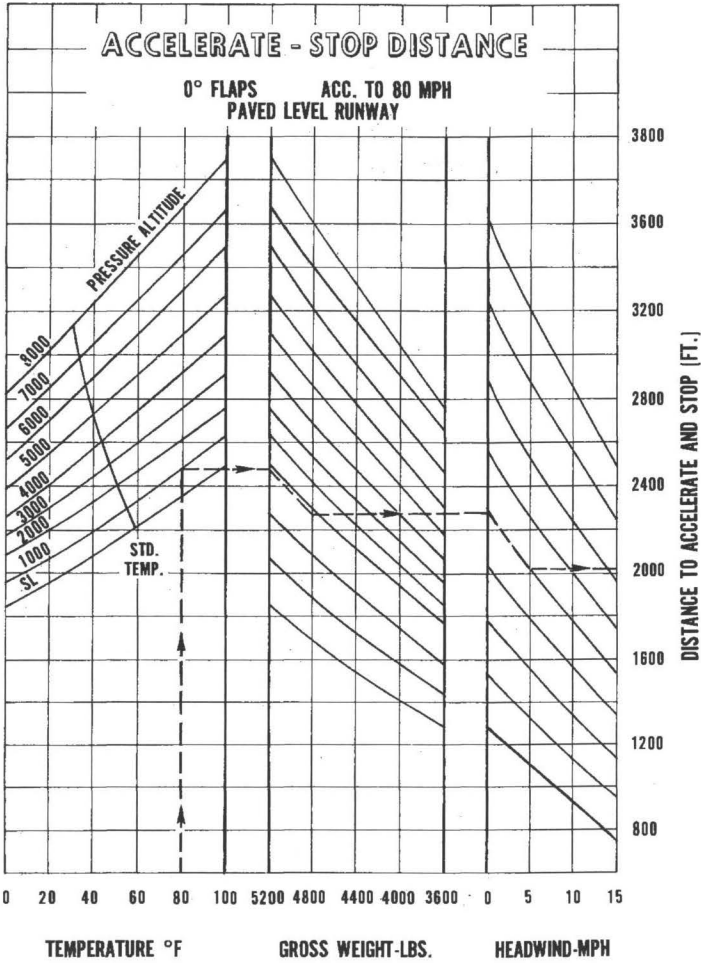
PA-23-250 AZTEC D



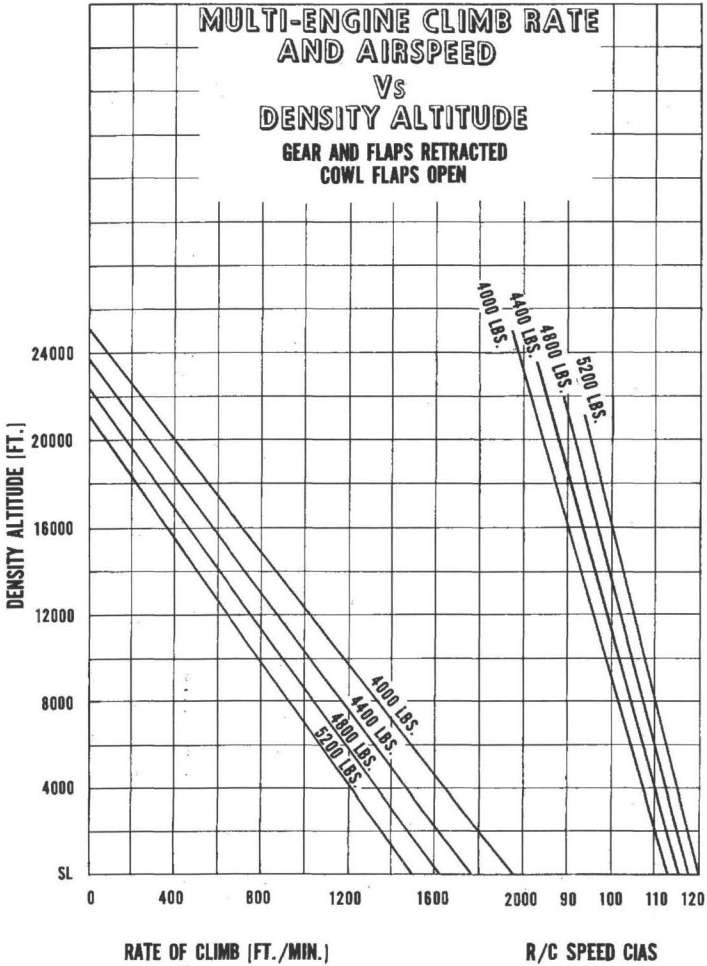
PA-23-250 AZTEC D



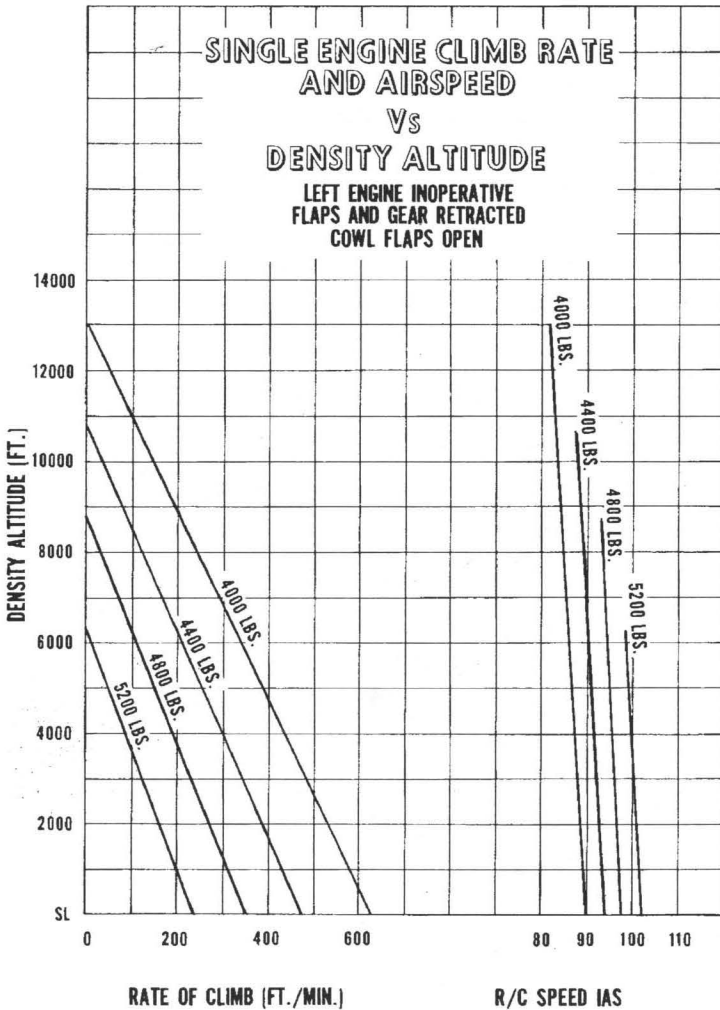
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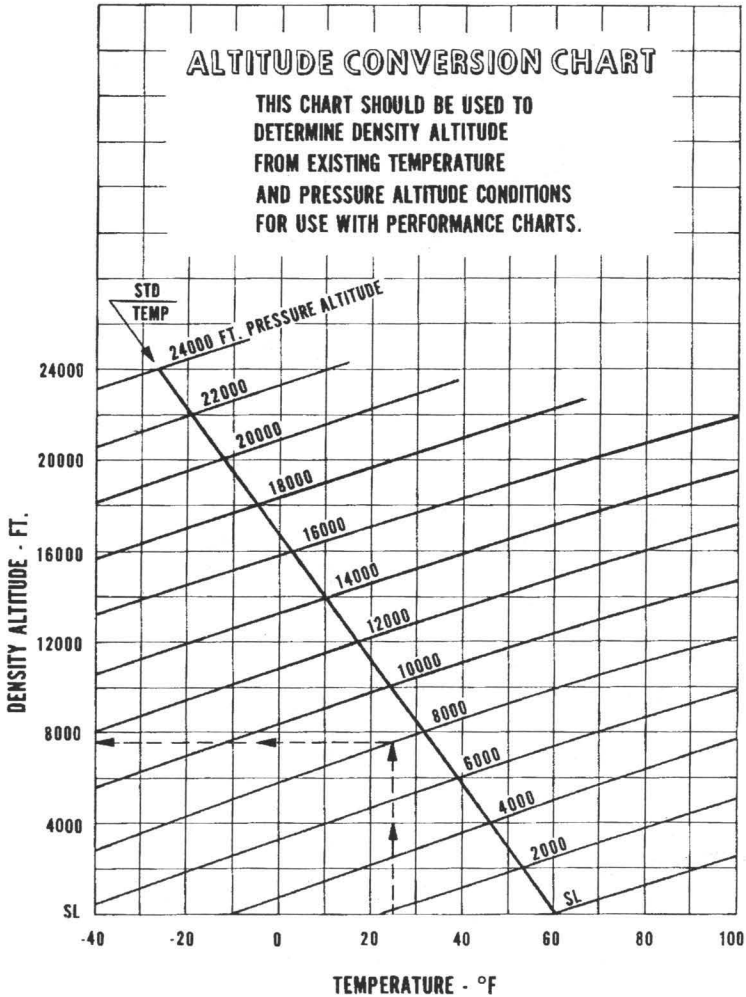
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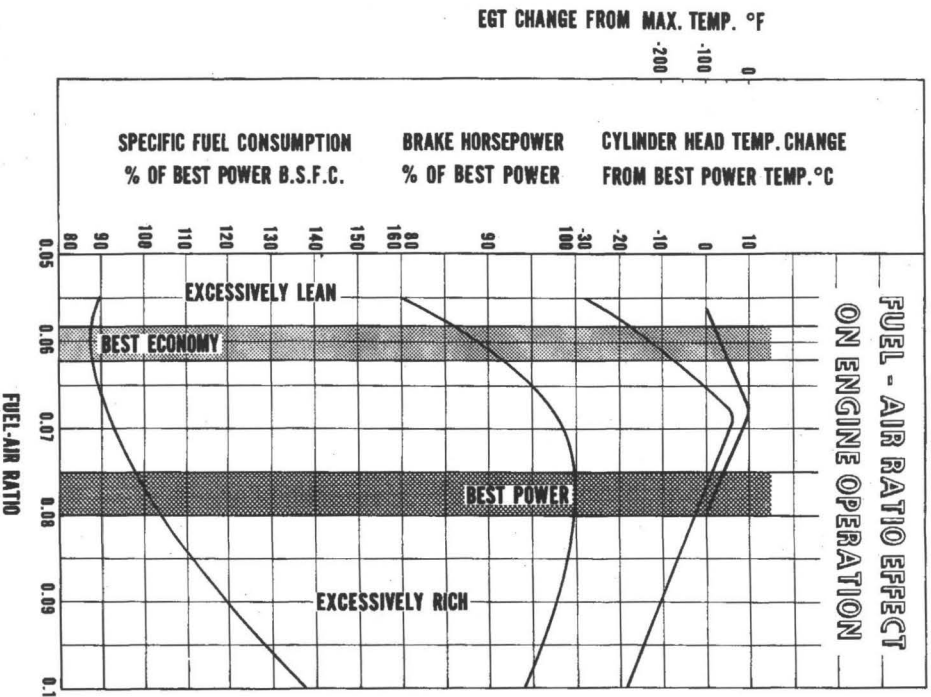
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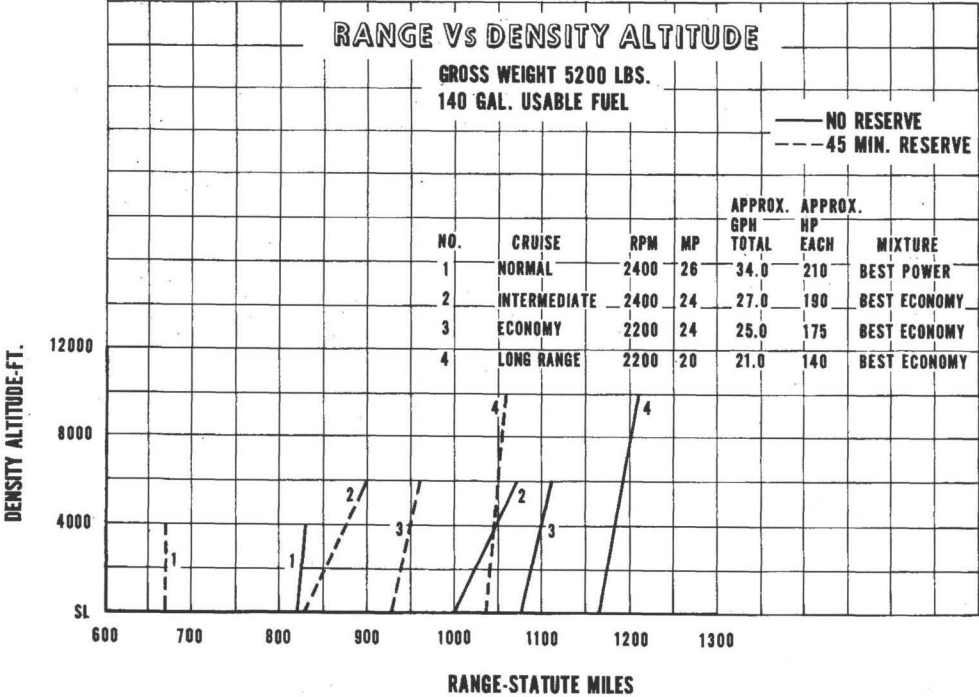
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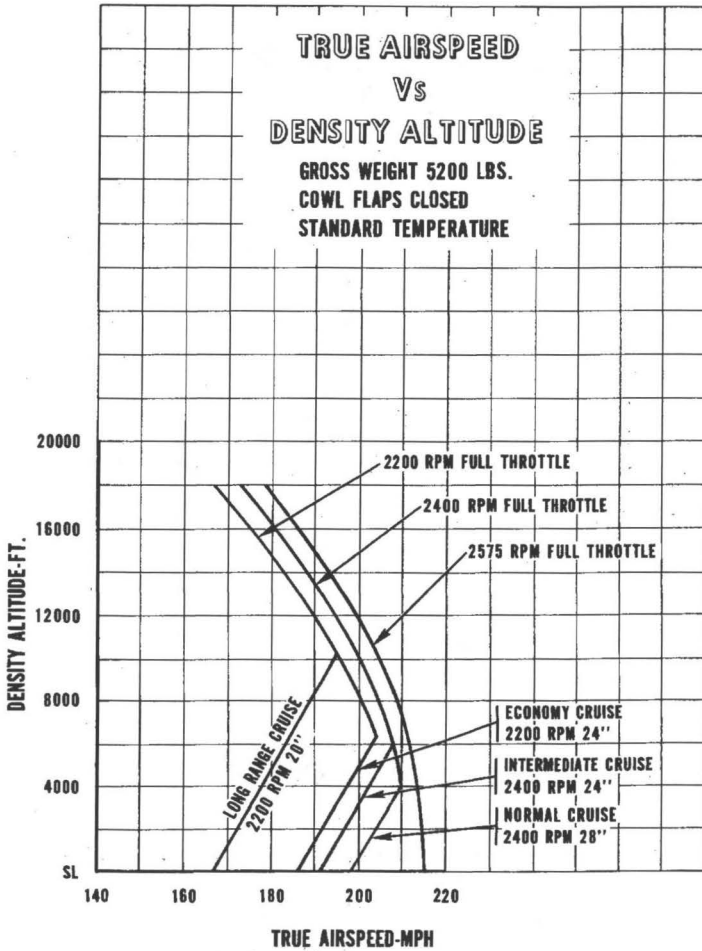
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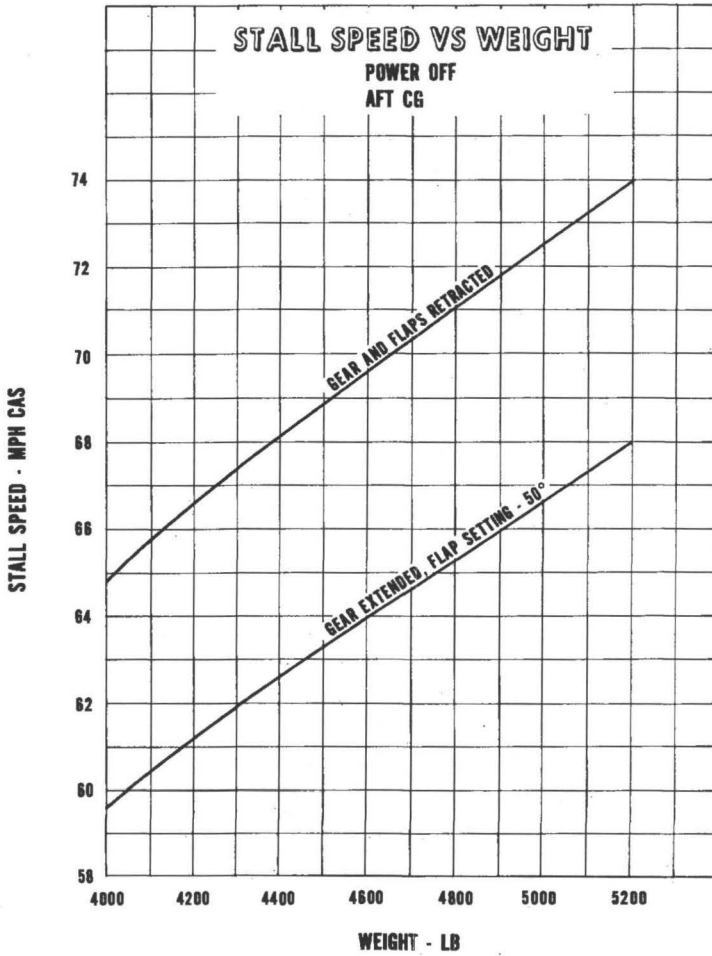
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AZTEC D**



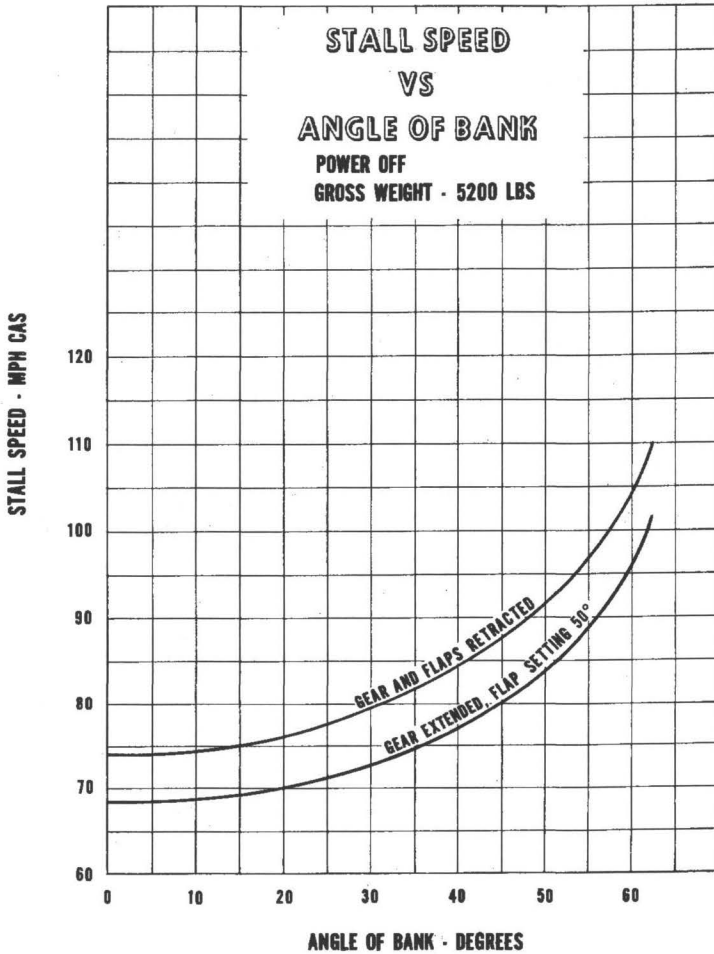
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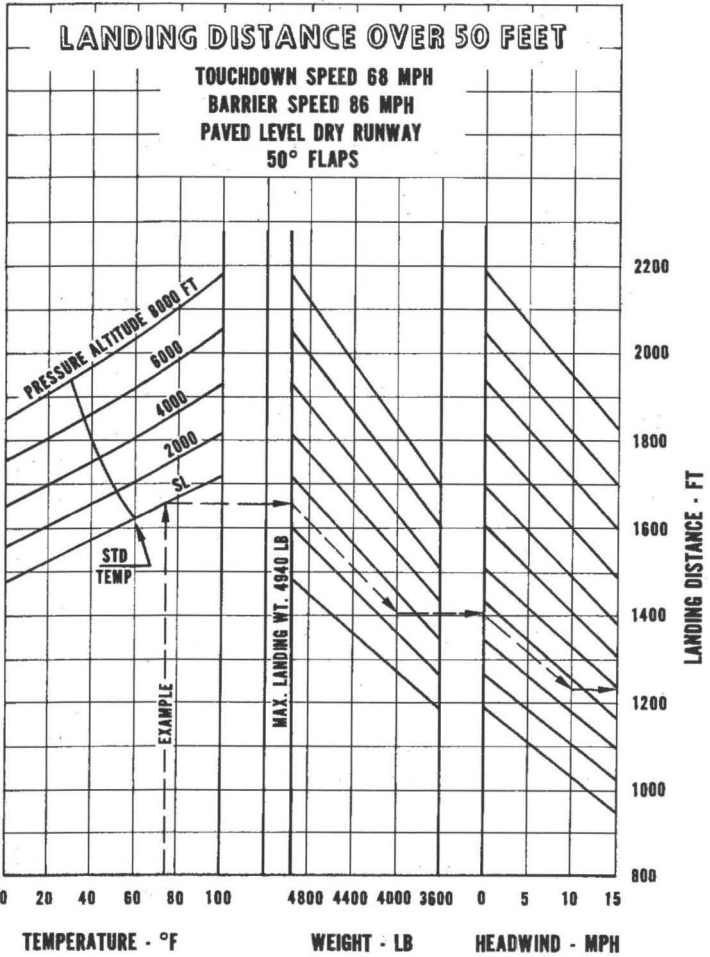
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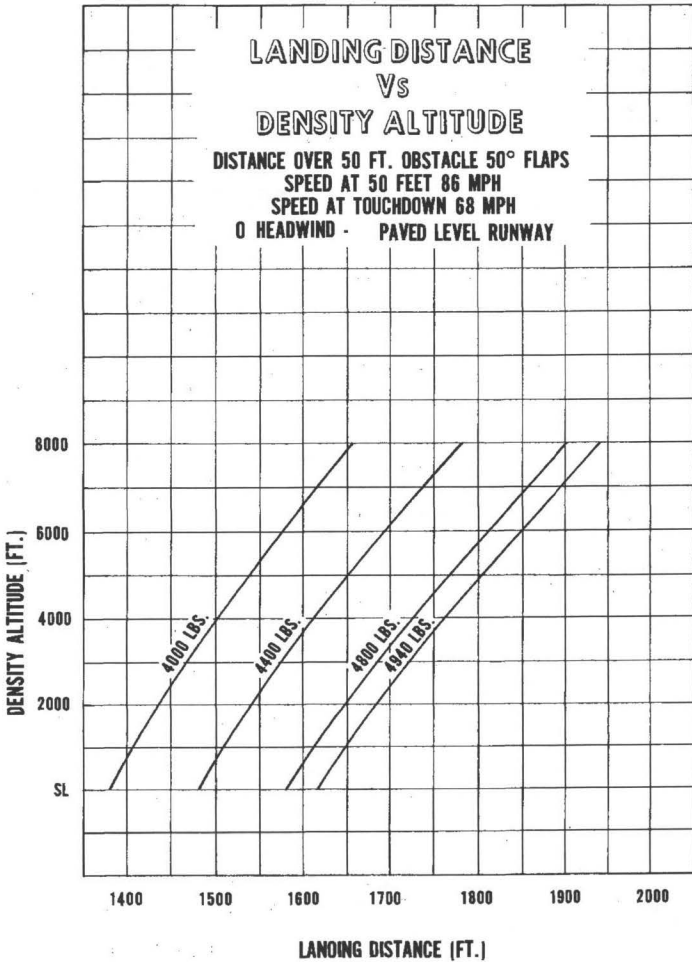
PA-23-250 AZTEC D



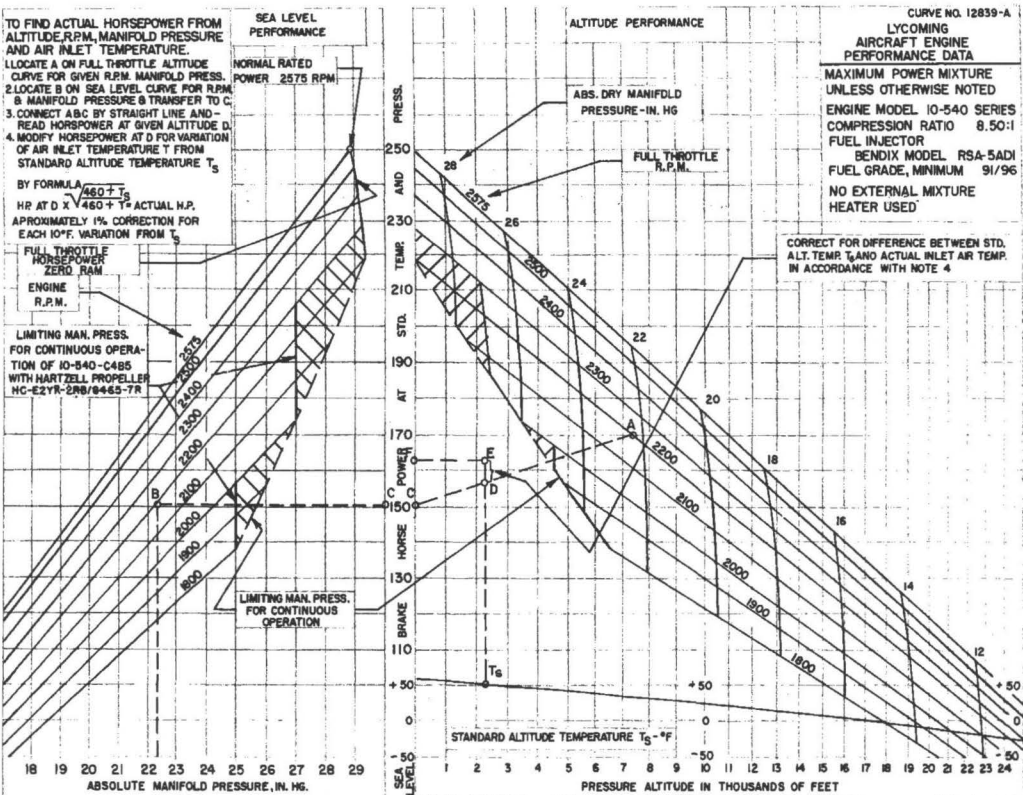
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Power Chart, Lycoming 10-540-C4B5



Power Setting Table (Cruise) - Lycoming Model IO-540-C4B5, 250 HP Engine

Normal Cruise		Intermediate Cruise		Economy Cruise		Long Range Cruise	
Approx 210 HP		Approx 190 HP		Approx 175 HP		Approx 140 HP	
RPM	MP	RPM	MP	RPM	MP	RPM	MP
2400	26.0	2200	26.0	2200	24.0	2100	21.0
		2300	25.0	2300	23.2	2200	20.0
		2400	24.0	2400	22.4	2300	19.3

1. To maintain constant Power, correct manifold pressure approximately 0.17" Hg. for each 10° F variation in induction air temperature from standard altitude temperature. Add manifold pressure for air temperatures above standard; subtract for temperatures below standard.
2. To determine fuel consumption for these power settings refer to the Fuel Consumption Chart.
3. When using Hartzell Propeller HC-E2YR-2RB/8465-7R with IO-540-C4B5 engine. DO NOT EXCEED 27" MANIFOLD PRESSURE BELOW 2300 RPM or 25" BELOW 2000 RPM.

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