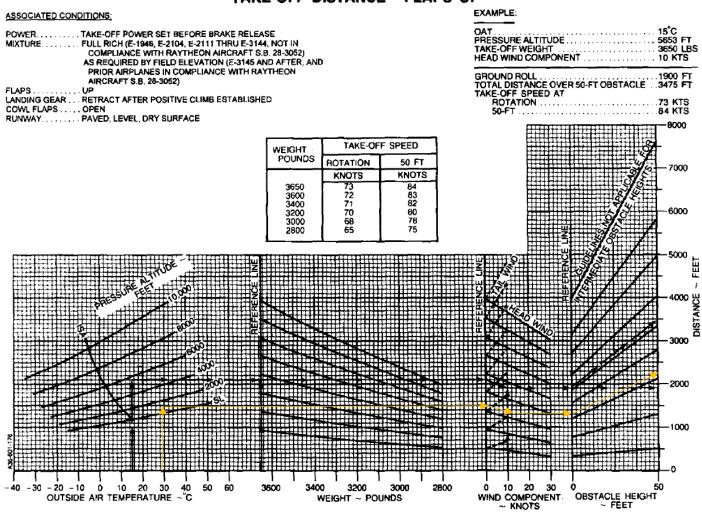
TAKE-OFF DISTANCE - FLAPS UP



5-22 November, 2002

Section 5. PERFORMANCE (Performance Section is not FAA Approved)

The performance of this airplane equipped with the Tornado Alley Turbo Whirlwind™ Turbonormalizing System is equal to or better than the performance as listed in the original Flight Manual *when operated in the Utility Category*.

When using noise abatement procedures for climb (rpm reduced to 2650), climb rate is not appreciably affected.

However, when operating at the <u>increased</u> weights authorized when operations are conducted in the NORMAL CATEGORY expect:

A. Increased Takeoff Distance of up to: 30%

B. Decreased Rate-of-Climb of up to: 13%

C. Increased Stall Speed of up to: 7%

D. Increased Landing Distance of up to: 15%

E. Increased Takeoff and Approach Speeds: Increase <u>2 Kts.</u>

F. Increased Vx and Vy speeds: Increase <u>2 Kts.</u>

CAUTION

OPERATIONS DURING VERY HOT WEATHER: Temperature Effects on Engine, Fuel Flow, and Aircraft Performance.

While turbocharged and turbonormalized engines will fully compensate for high altitude loss of ambient pressure, they do not normally provide any compensation for changes in air density due to elevated non-standard ambient temperatures.

Maximum power at 29.6 In. Hg. and 2700 RPM will be reduced by approximately 1% for each six (6) degrees F that the ambient temperature exceeds the ISA temperature for the altitude at which the aircraft is operating. This adverse effect on performance due to elevated ambient temperatures should be given careful consideration, especially when operating at higher aircraft gross weights (> 3,600 lbs). Pilots unfamiliar with the effects of reduced power and higher gross weights should be particularly careful to ensure adequate runway distance and initial climb rate in order to clear obstructions.