

October, 1976

ASSOCIATED CONDITIONS:

POWER . . . FULL THROTTLE AT 2700 RPM
 MIXTURE . . . LEAN TO APPROPRIATE FUEL FLOW
 FLAPS . . . UP
 LANDING GEAR . . . RETRACT AFTER POSITIVE CLIMB ESTABLISHED
 COWL FLAPS . . . OPEN

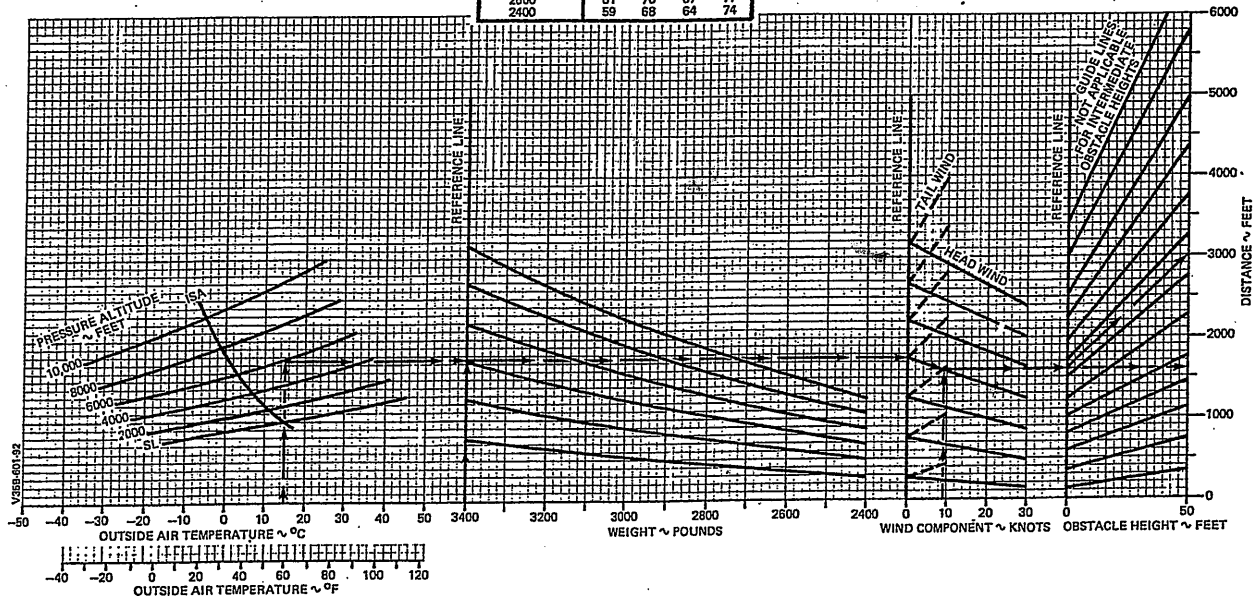
TAKE-OFF DISTANCE

WEIGHT ~ LBS	TAKE-OFF SPEED			
	LIFT-OFF		50 FT	
	KTS	MPH	KTS	MPH
3400	71	82	77	89
3200	69	79	75	86
3000	66	76	73	84
2800	64	74	70	81
2600	61	70	67	77
2400	59	68	64	74

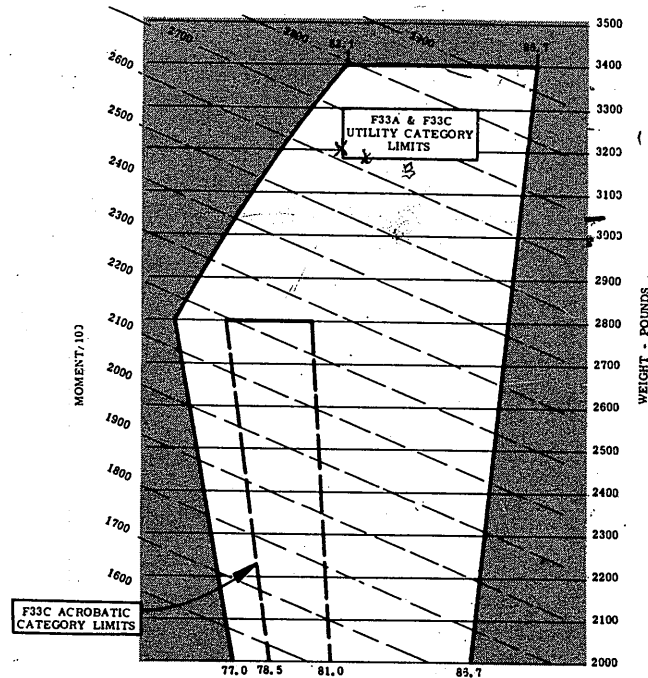
EXAMPLE:

OAT . . . 15°C (59°F)
 PRESSURE ALTITUDE . . . 5550 FT
 TAKE-OFF WEIGHT . . . 3400 LBS
 HEAD WIND COMPONENT . . . 9.5 KTS

GROUND ROLL . . . 1600 FT
 TOTAL DISTANCE OVER A 50 FT OBSTACLE . . . 3000 FT
 TAKE-OFF SPEED AT LIFT-OFF . . . 71 KTS (82 MPH)
 AT 50 FT . . . 77 KTS (89 MPH)



MOMENT LIMITS VS WEIGHT



CENTER OF GRAVITY - INCHES AFT OF DATUM
ENVELOPE BASED ON THE FOLLOWING WEIGHT AND
CENTER OF GRAVITY LIMIT DATA (LANDING GEAR DOWN)

	WEIGHT CONDITION	FORWARD C.G. LIMIT	AFT C.G. LIMIT
F33A & F33C UTILITY CATEGORY	3400 LB. (MAXIMUM TAKE-OFF OR LANDING)	82.1	86.7
	2800 LB. OR LESS	77.0	86.7
F33C ACROBATIC CATEGORY	2800 LB. OR LESS	78.5	81.0