

—TAKE-OFF DISTANCE—						FLAPS RETRACTED HARD SURFACE RUNWAY				
GROSS WT. LBS.	IAS 50 FT. MPH	HEAD WIND KNOTS	AT SEA LEVEL & 59° F.		AT 2500 FT. & 50° F.		AT 5000 FT. & 41° F.		AT 7500 FT. & 32° F.	
			GROUND RUN	TOTAL TO CLEAR 50 FT.OBS	GROUND RUN	TOTAL TO CLEAR 50 FT.OBS	GROUND RUN	TOTAL TO CLEAR 50 FT.OBS	GROUND RUN	TOTAL TO CLEAR 50 FT.OBS
1600	64	0	735	1385	910	1660	1115	1985	1360	2440
		10	500	1035	630	1250	780	1510	970	1875
		20	305	730	395	890	505	1090	640	1375
NOTE: Increase the distances 10% for each 35° F. increase in temperature above standard for the particular altitude.										

— MAXIMUM RATE-OF-CLIMB DATA —										
GROSS WEIGHT LBS.	AT SEA LEVEL & 59° F.			AT 5000 FT. & 41° F.			AT 10000 FT. & 23° F.			
	IAS, MPH	RATE OF CLIMB FT. /MIN.	FUEL USED, GAL.	IAS, MPH	RATE OF CLIMB FT. /MIN.	FUEL USED FROM S.L., GAL.	IAS, MPH	RATE OF CLIMB FT. /MIN.	FUEL USED FROM S.L., GAL.	
1600	72	670	.6	69	440	1.6	66	220	3.0	
NOTE: Flaps retracted, full throttle, mixture leaned to smooth operation above 5000 ft. Fuel used includes warm-up and take-off allowances.										

—LANDING DISTANCE—						FLAPS LOWERED TO 40° - POWER OFF HARD SURFACE RUNWAY - ZERO WIND			
GROSS WEIGHT LBS.	APPROACH SPEED, IAS, MPH	AT SEA LEVEL & 59° F.		AT 2500 FT. & 50° F.		AT 5000 FT. & 41° F.		AT 7500 FT. & 32° F.	
		GROUND ROLL	TOTAL TO CLEAR 50 FT.OBS	GROUND ROLL	TOTAL TO CLEAR 50 FT.OBS	GROUND ROLL	TOTAL TO CLEAR 50 FT.OBS	GROUND ROLL	TOTAL TO CLEAR 50 FT.OBS
1600	58	445	1075	470	1135	495	1195	520	1255
NOTE: Decrease the distances shown by 10% for each 4 knots of headwind. Increase the distance by 10% for each 60° F. temperature increase above standard.									

Figure 5-3.

CRUISE PERFORMANCE

MODEL 150 COMMUTER

WITH LEAN
MIXTURE

ALTITUDE	RPM	%BHP	TAS MPH	GAL/HR.	END. HOURS		RANGE, MILES	
					STANDARD	LONG RANGE	STANDARD	LONG RANGE
					22.5 GAL.	35 GAL.	22.5 GAL.	35 GAL.
2500	2750	94	126	7.2	3.1	4.9	395	610
	2700	89	124	6.8	3.3	5.2	410	640
	2600	79	119	6.0	3.8	5.9	450	700
	2500	71	114	5.3	4.3	6.6	485	755
	2400	63	108	4.7	4.8	7.4	515	805
	2300	56	102	4.2	5.3	8.3	540	845
	2200	50	95	3.8	5.9	9.1	555	865
	2100	45	87	3.5	6.4	10.0	560	870
5000	2750	87	126	6.6	3.4	5.3	430	670
	2700	82	124	6.2	3.6	5.6	450	700
	2600	74	119	5.5	4.1	6.3	485	755
	2500	66	113	4.9	4.6	7.1	515	800
	2400	58	107	4.4	5.1	7.9	545	845
	2300	53	100	4.0	5.6	8.7	555	865
	2200	47	92	3.7	6.1	9.5	560	875
	2100	44	86	3.4	6.6	10.2	565	875
7500	2700	76	123	5.7	3.9	6.1	485	755
	2600	68	117	5.1	4.4	6.8	515	805
	2500	61	111	4.6	4.9	7.6	540	845
	2400	55	104	4.2	5.4	8.3	555	865
	2300	50	97	3.8	5.9	9.1	565	880
	2200	46	90	3.6	6.3	9.7	560	875
	2100	44	85	3.4	6.6	10.2	560	870
10,000	2700	71	122	5.3	4.2	6.6	515	805
	2600	64	116	4.8	4.7	7.3	540	840
	2500	58	109	4.4	5.1	8.0	560	870
	2400	52	101	4.0	5.6	8.7	565	880
	2300	48	94	3.7	6.0	9.4	565	885
	2200	45	89	3.6	6.3	9.8	562	875
12,500	2650	63	117	4.7	4.8	7.4	555	860
	2600	60	113	4.5	5.0	7.7	560	875
	2500	55	105	4.2	5.4	8.4	570	885
	2400	51	99	3.9	5.8	9.0	570	890
	2300	48	89	3.7	6.1	9.5	545	845

- NOTES: 1. Maximum cruise is normally limited to 75% power.
2. In the above calculations of endurance in hours and range in miles, no allowances were made for take-off or reserve.
3. Cruise and range performance figures shown are applicable to the COMMUTER.
For the STANDARD and TRAINER versions, subtract 2 MPH from the higher cruise speeds and 1 MPH from the lower cruise speeds shown.

Figure 5-4.