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SECTION 5
PERFORMANCE

WEIGHT LBS	TAKEOFF SPEED KIAS	LIFT AT 50 FT	FT ALT PRESS	0°C		10°C		20°C		30°C		40°C	
				TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL		
2100	50	56	S.L.	585	1070	630	1145	1220	725	1300	780	1390	1900
				585	1070	630	1145	1220	725	1300	780	1390	1900
				1000	1650	690	1245	1330	795	1420	850	1520	2100
				2000	1770	755	1360	1455	870	1555	935	1665	2100
				3000	1890	830	1490	1595	955	1710	1025	1830	2100
				4000	1980	890	1640	1755	1050	1880	1130	2015	2100
				5000	2075	910	1805	1935	1155	2075	1240	2230	2100
				6000	2305	1000	1990	2140	1275	2300	1370	2475	2100
				7000	2565	1100	2210	2380	1410	2560	1515	2755	2100
				8000	2870	1215	2460	2655	1560	2865	1680	3090	2100
1900	47	54	S.L.	865	1470	505	1345	1450	580	1045	620	1115	1900
				865	1470	505	1345	1450	580	1045	620	1115	1900
				1000	1620	550	1405	1500	635	1140	680	1215	1900
				2000	1740	605	1495	1600	695	1245	745	1330	1900
				3000	1830	660	1640	1755	760	1365	815	1455	1900
				4000	1980	725	1805	1935	835	1495	895	1595	1900
				5000	2075	785	1990	2140	920	1640	985	1755	1900
				6000	2305	855	2210	2380	995	1830	1085	1940	1900
				7000	2565	940	2460	2655	1115	2000	1195	2145	1900
				8000	2870	1035	2655	2865	1230	2220	1320	2385	1900

Figure 5-4. Takeoff Distance (Sheet 2 of 2)

CESSNA
MODEL 172N

TAKEOFF DISTANCE
2100 LBS AND 1900 LBS

SHORT FIELD

REFER TO SHEET 1 FOR APPROPRIATE CONDITIONS AND NOTES.

CESSNA
MODEL 172N

Figure 5-4. Takeoff Distance (Sheet 1 of 2)

WEIGHT LBS	TAKEOFF SPEED KIAS	LIFT AT 50 FT	FT ALT PRESS	0°C		10°C		20°C		30°C		40°C	
				TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL		
2300	52	59	S.L.	720	1300	775	1390	1490	895	1590	960	1700	2300
				720	1300	775	1390	1490	895	1590	960	1700	2300
				1000	1420	850	1525	1630	980	1745	1050	1865	2300
				2000	1555	930	1670	1790	1075	1915	1155	2055	2300
				3000	1710	1025	1835	1970	1185	2115	1270	2265	2300
				4000	1880	1125	2025	2175	1300	2335	1400	2510	2300
				5000	2075	1240	2240	2410	1435	2595	1540	2795	2300
				6000	2305	1365	2485	2680	1585	2895	1705	3125	2300
				7000	2565	1510	2770	3000	1755	3245	1890	3515	2300
				8000	2870	1675	3110	3375	1945	3670	2095	3990	2300

- NOTES:
- Short field technique as specified in Section 4.
 - Prior to takeoff from fields above 3000 feet elevation, the mixture should be leaned to give maximum RPM in a full throttle, static runup.
 - Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
 - For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

CONDITIONS:
Flaps Up
Full Throttle Prior to Brake Release
Paved, Level, Dry Runway
Zero Wind

TAKEOFF DISTANCE
MAXIMUM WEIGHT 2300 LBS

SHORT FIELD

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CRUISE PERFORMANCE

CONDITIONS:
2300 Pounds
Recommended Lean Mixture

PRESSURE ALTITUDE FT	RPM	20°C BELOW STANDARD TEMP			STANDARD TEMPERATURE			20°C ABOVE STANDARD TEMP		
		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2000	2500	---	---	---	75	116	8.4	71	115	7.9
	2400	72	111	8.0	67	111	7.5	63	110	7.1
	2300	64	106	7.1	60	105	6.7	56	105	6.3
	2200	56	101	6.3	53	100	6.1	50	99	5.8
4000	2500	---	---	---	75	118	8.4	71	118	7.9
	2400	76	116	8.5	71	115	8.0	67	115	7.5
	2300	68	111	7.6	64	110	7.1	60	109	6.7
	2200	54	100	6.1	51	99	5.9	48	98	5.7
6000	2500	---	---	---	75	120	8.4	71	120	7.9
	2400	72	116	8.1	67	115	7.6	64	114	7.1
	2300	64	110	7.2	60	109	6.8	57	109	6.4
	2200	51	99	5.9	49	98	5.7	47	97	5.5
8000	2500	---	---	---	75	122	8.4	71	122	7.9
	2400	76	120	8.6	71	120	8.0	67	119	7.5
	2300	68	115	7.7	64	114	7.2	60	113	6.8
	2200	55	104	6.2	52	103	6.0	50	102	5.8
10,000	2500	---	---	---	75	122	8.4	71	122	7.9
	2400	76	122	8.5	71	122	8.0	67	121	7.5
	2300	68	119	7.6	64	118	7.1	60	118	6.5
	2200	52	103	6.0	50	102	5.8	48	101	5.6
12,000	2500	---	---	---	75	122	8.4	71	122	7.9
	2400	68	119	7.7	64	118	7.2	61	117	6.8
	2300	62	114	6.9	58	113	6.5	55	111	6.2
	2200	50	102	5.8	48	101	5.6	46	100	5.5

RANGE PROFILE 45 MINUTES RESERVE 40 GALLONS USABLE FUEL

CONDITIONS:
2300 Pounds
Recommended Lean Mixture for Cruise
Standard Temperature
Zero Wind

NOTES:
1. This chart allows for the fuel used for engine start, taxi, takeoff and climb, and the distance during climb as shown in figure 5-6.
2. Reserve fuel is based on 45 minutes at 45% BHP and is 4.1 gallons.

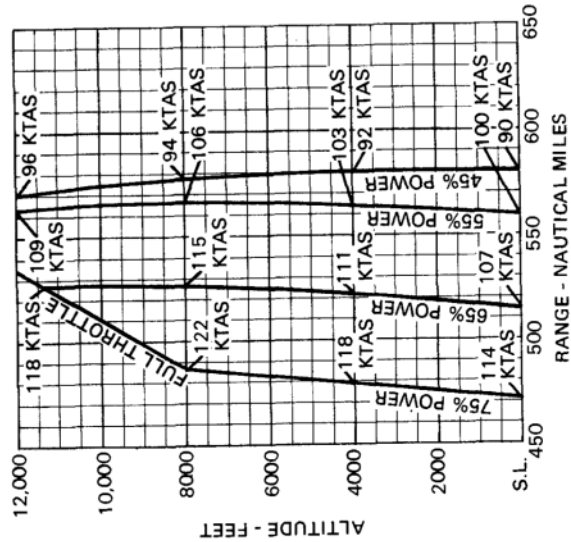


Figure 5-8. Range Profile (Sheet 1 of 2)

Figure 5-7. Cruise Performance

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CESSNA
MODEL 172N

CESSNA
MODEL 172N

SECTION 5
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ENDURANCE PROFILE
45 MINUTES RESERVE
50 GALLONS USABLE FUEL

CONDITIONS:
2300 Pounds
Recommended Lean Mixture for Cruise
Standard Temperature

NOTES:

1. This chart allows for the fuel used for engine start, taxi, takeoff and climb, and the time during climb as shown in figure 5-6.
2. Reserve fuel is based on 45 minutes at 45% BHP and is 4.1 gallons.

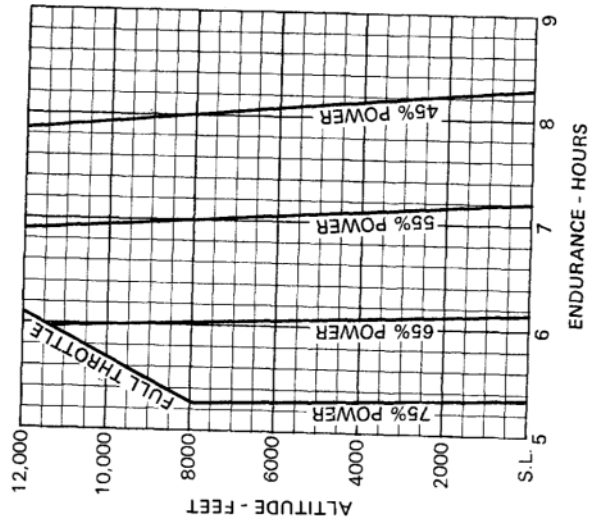


Figure 5-9. Endurance Profile (Sheet 2 of 2)

LANDING DISTANCE

SHORT FIELD

CONDITIONS:
Flaps 40°
Power Off
Maximum Braking
Paved, Level, Dry Runway
Zero Wind

NOTES:

1. Short field technique as specified in Section 4.
2. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
3. For operation on a dry, grass runway, increase distances by 45% of the "ground roll" figure.

WEIGHT LBS	SPEED AT 50 FT KIAS	PRESS FT	0°C		10°C		20°C		30°C		40°C	
			TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL	TOTAL TO CLEAR ROLL	GRND TO CLEAR ROLL		
2300	60		1205	510	1235	530	1265	545	1295	565	1330	585
2000	510	1205	1265	530	1300	550	1335	565	1370	585	1405	610
1000	510	1235	1300	550	1335	570	1370	590	1405	610	1440	630
3000	550	1300	1335	570	1370	590	1405	610	1445	635	1480	655
4000	570	1335	1370	590	1410	615	1445	635	1485	655	1525	680
5000	590	1370	1415	615	1450	635	1485	655	1535	685	1570	705
6000	615	1415	1455	640	1490	660	1525	685	1575	710	1615	730
7000	640	1455	1495	660	1535	685	1575	710	1620	735	1665	760
8000	665	1500	1540	690	1580	710	1620	735	1665	760	1710	785

Figure 5-10. Landing Distance