

OWNER FOLLOW-UP SYSTEM

+ 182 +

Your Cessna Dealer has an owner follow-up system to notify you when he receives information that applies to your Cessna. In addition, if you wish, you may choose to receive similar notification directly from the Cessna Service Department. A subscription card is supplied in your airplane file for your use, should you choose to request this service. Your Cessna Dealer will be glad to supply you with details concerning these follow-up programs, and stands ready through his Service Department to supply you with fast, efficient, low cost service.



Max glide speed - 80 mph.
Glide ratio - 9.7 - 1
every foot down - nine feet forward

Section

+ 182 +

V

OPERATIONAL DATA

The operational data charts on the following pages are presented for two purposes; first, so that you may know what to expect from your airplane under various conditions, and second, to enable you to plan your flights in detail and with reasonable accuracy.

The data in the charts has been compiled from actual flight tests with the airplane and engine in good condition and using average piloting techniques. Note also that the range charts make no allowances for wind, navigational errors, warm-up, take-off, climb, etc. You must estimate these variables for yourself and make allowances accordingly.

Remember that the charts contained herein are based on standard day conditions. For more precise power, fuel consumption, and endurance information, consult the Cessna Flight Guide (Power Computer) supplied with your aircraft. With the Flight Guide, you can easily take into account temperature variations from standard at any flight altitude.

AIRSPEED CORRECTION TABLE									
FLAPS UP	IAS	60	80	100	120	140	160	180	—
	CAS	68	83	100	118	137	156	175	—
*FLAPS DOWN 20°-40°	IAS	40	50	60	70	80	90	100	110
	CAS	58	63	68	75	84	92	101	110

*Maximum Flap Speed 110 MPH, CAS

Figure 5-1.

STALL SPEED, POWER OFF			
Gross Weight 2800 LBS.	ANGLE OF BANK		
	0°	30°	60°
CONFIGURATION			
FLAPS UP	64	69	91
FLAPS 20°	57	61	81
FLAPS 40°	55	59	78

SPEEDS ARE MPH, CAS

Figure 5-2.

137.4
135.25

2.2

135.25
133.94

1.31 Fuel

12/10/87

TAKE-OFF DATA

TAKE-OFF DISTANCE WITH 20° FLAPS FROM HARD SURFACE RUNWAY.

GROSS WEIGHT LBS.	AT SEA LEVEL & 59°F.		AT 5000 FT. & 41°F.		AT 10000 FT. & 23°F.		AT 15000 FT. & 5°F.		AT 20000 FT. & -12°F.	
	IAS MPH	HEAD WIND MPH	GROUND RUN	TOTAL TO CLEAR 50' OBS.	GROUND RUN	TOTAL TO CLEAR 50' OBS.	GROUND RUN	TOTAL TO CLEAR 50' OBS.	GROUND RUN	TOTAL TO CLEAR 50' OBS.
2000	52	0	295	655	350	745	415	855	500	1005
		15	160	425	195	490	235	570	280	660
		30	65	235	80	280	105	335	135	405
2400	57	0	440	895	525	1035	630	1210	765	1450
		15	255	600	310	705	380	835	470	1020
		30	115	355	150	425	190	515	245	645
2800	61	0	625	1205	745	1420	895	1695	1095	2090
		15	380	830	460	990	565	1200	700	1505
		30	190	515	240	530	305	780	350	1000

Note: Increase distances 10% for each 25°F above standard temperature for 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.		AT 15000 FT. & 5°F.		AT 20000 FT. & -12°F.					
	IAS MPH	RATE OF CLIMB FT/MIN	GAL. OF FUEL USED	IAS MPH	RATE OF CLIMB FT/MIN	IAS MPH	RATE OF CLIMB FT/MIN	IAS MPH	RATE OF CLIMB FT/MIN	IAS MPH	RATE OF CLIMB FT/MIN			
2000	84	1710	1.5	82	2.7	79	995	4.1	76	640	5.9	74	280	9.2
2400	86	1295	1.6	84	3.1	82	720	5.0	79	435	7.6	77	150	12.9
2800	88	980	1.5	86	3.7	84	510	6.3	82	280	10.2	80	50	20.5

Note: Flaps up, full throttle and 2600 RPM. Mixture leaned for smooth operation above 5000 ft. Fuel used includes warm-up and take-off allowance.

Figure 5-3.

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight-2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
2500 FEET								
2450	23	76	14.2	158	4.2	670	5.6	885
	22	72	13.4	154	4.5	690	5.9	910
	21	68	12.7	151	4.7	715	6.2	940
	20	63	12.0	148	5.0	730	6.6	965
2300	23	71	13.1	154	4.6	700	6.0	925
	22	67	12.2	149	4.9	740	6.5	970
	21	62	11.5	145	5.2	760	6.9	1005
	20	59	11.0	142	5.5	775	7.2	1020
2200	23	67	12.1	149	5.0	745	6.5	980
	22	63	11.4	146	5.3	770	6.9	1010
	21	59	10.8	142	5.6	790	7.3	1040
	20	55	10.2	138	5.9	810	7.7	1065
2000 MAXIMUM RANGE SETTINGS	20	47	8.7	126	6.9	865	9.1	1135
	19	43	8.2	121	7.3	890	9.6	1170
	18	39	7.5	113	8.0	900	10.5	1185
	17	35	7.0	105	8.6	905	11.3	1190
5000 FEET								
2450	23	78	14.5	163	4.1	670	5.4	885
	22	73	13.6	159	4.4	700	5.8	925
	21	70	13.0	156	4.6	720	6.1	950
	20	65	12.2	151	4.9	750	6.5	985
2300	23	73	13.4	158	4.5	710	5.9	930
	22	69	12.6	155	4.7	730	6.3	965
	21	64	11.9	151	5.0	760	6.6	1005
	20	60	11.2	146	5.4	785	7.1	1035
2200	23	68	12.4	155	4.8	750	6.4	985
	22	64	11.7	151	5.1	775	6.8	1020
	21	60	11.0	146	5.5	800	7.2	1050
	20	57	10.5	143	5.7	815	7.5	1075
2000 MAXIMUM RANGE SETTINGS	19	45	8.5	126	7.1	895	9.3	1175
	18	41	7.9	118	7.6	905	10.0	1190
	17	37	7.3	111	8.2	910	10.8	1200
	16	34	6.8	103	8.8	905	11.6	1190

Figure 5-4 (Sheet 1 of 3).

Flt 2/3/22 in 16235 - no gas bought about 16250

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight-2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
7500 FEET								
2450	21	71	13.1	161	4.6	730	6.0	960
	20	67	12.4	157	4.8	760	6.4	1005
	19	62	11.7	152	5.1	780	6.8	1025
	18	58	11.0	147	5.5	805	7.2	1055
2300	21	66	12.2	156	4.9	760	6.5	1005
	20	62	11.6	151	5.2	780	6.8	1025
	19	58	11.0	147	5.5	800	7.2	1050
	18	54	10.5	142	5.7	810	7.5	1085
2200	21	62	11.4	152	5.3	805	6.9	1055
	20	58	10.7	148	5.6	830	7.4	1090
	19	54	10.2	143	5.9	840	7.7	1105
	18	51	9.7	138	6.2	860	8.1	1130
2000 MAXIMUM RANGE SETTINGS	19	47	8.7	131	6.9	900	9.1	1185
	18	43	8.1	123	7.4	910	9.8	1200
	17	39	7.6	116	7.9	920	10.4	1210
	16	36	7.0	107	8.6	920	11.3	1210
10,000 FEET								
2450	19	63	11.9	156	5.0	785	6.6	1035
	18	60	11.2	152	5.3	810	7.1	1065
	17	55	10.6	146	5.7	830	7.5	1090
	16	51	10.0	141	6.0	840	7.9	1105
2300	19	60	11.1	152	5.4	820	7.1	1080
	18	56	10.5	147	5.7	840	7.5	1105
	17	51	9.8	141	6.1	860	8.1	1130
	16	47	9.2	134	6.5	870	8.6	1145
2200	19	56	10.4	148	5.7	850	7.6	1120
	18	52	9.8	142	6.1	875	8.1	1155
	17	49	9.3	136	6.5	880	8.5	1160
	16	45	8.7	129	6.9	895	9.1	1175
2000 MAXIMUM RANGE SETTINGS	18	44	8.4	128	7.1	910	9.4	1200
	17	40	7.8	120	7.7	925	10.1	1215
	16	38	7.4	114	8.1	925	10.7	1215
	15	35	6.9	105	8.7	910	11.4	1200

Figure 5-4 (Sheet 2 of 3).

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight-2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
15,000 FEET								
2450	16	54	10.4	150	5.8	865	7.6	1135
	15	50	9.8	142	6.1	875	8.1	1155
	14	46	9.2	135	6.5	880	8.6	1160
2300	16	50	9.6	143	8.2	890	8.2	1170
	15	47	9.1	136	6.6	900	8.7	1185
	14	42	8.5	127	7.1	900	9.3	1185
2200	16	47	9.1	138	6.6	910	8.7	1200
	15	44	8.6	130	7.0	910	9.2	1200
	14	40	8.0	120	7.5	905	9.9	1190
2000 MAXIMUM RANGE SETTINGS	16	40	7.8	122	7.7	940	10.1	1240
	15	37	7.3	112	8.2	920	10.8	1210
	14	34	6.8	101	8.8	895	11.6	1175
20,000 FEET								
2450	13	44	9.0	133	6.7	895	8.8	1175
	12	40	8.3	122	7.2	875	9.5	1155
2300	13	42	8.4	126	7.1	905	9.4	1190
	12	38	7.7	113	7.8	875	10.3	1155
2200	13	39	7.8	118	7.7	905	10.1	1190
	12	35	7.2	103	8.3	865	11.0	1135

Figure 5-4 (Sheet 3 of 3).

LANDING DISTANCE TABLE

LANDING DISTANCE WITH 40° FLAPS ON HARD SURFACED RUNWAY

GROSS WEIGHT POUNDS	APPROACH IAS MPH	@ SEA LEVEL & 59° F		@ 2500 FEET & 50° F		@ 5000 FEET & 41° F		@ 7500 FEET & 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.
2800	69	590	1350	640	1430	680	1505	740	1595

NOTE: Distances are based on zero wind, power off and heavy braking. Reduce landing distances 10% for each 6 MPH headwind.

Figure 5-5.