

CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight- 3800 Pounds

2500 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	25	79	155	16.4	3.9	604	5.4	838
	24	74	151	15.5	4.1	625	5.7	869
	23	70	148	14.7	4.4	643	6.1	895
	22	66	144	13.8	4.6	665	6.4	925
2500	25	76	153	15.9	4.0	617	5.6	856
	24	72	150	15.1	4.2	634	5.9	882
	23	68	146	14.3	4.5	656	6.2	912
	22	64	142	13.5	4.8	673	6.6	938
2400	25	71	148	14.9	4.3	638	6.0	891
	24	67	145	14.1	4.5	656	6.3	917
	23	64	142	13.4	4.8	678	6.7	938
	22	60	136	12.6	5.1	695	7.1	965
2300	25	67	144	14.0	4.6	660	6.4	921
	24	63	141	13.3	4.8	678	6.7	943
	23	60	136	12.6	5.1	695	7.1	969
	22	56	132	11.9	5.4	708	7.5	986
2200	25	62	139	13.0	4.9	686	6.9	956
	24	58	135	12.3	5.2	700	7.2	973
	23	55	130	11.7	5.5	712	7.6	990
	22	52	126	11.1	5.8	725	8.0	1008
	21	48	120	10.4	6.1	734	8.5	1021
	20	45	113	9.8	6.5	734	9.1	1175
	19	42	104	9.2	7.0	716	9.7	1008

CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight- 3800 Pounds

5000 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	25	81	162	16.9	3.8	613	5.3	856
	24	77	160	16.0	4.0	634	5.5	882
	23	73	155	15.2	4.2	656	5.9	912
	22	68	151	14.3	4.5	673	6.2	938
2500	25	78	160	16.4	3.9	625	5.4	869
	24	74	157	15.6	4.1	643	5.7	895
	23	70	153	14.7	4.3	665	6.0	925
	22	66	150	13.9	4.6	686	6.4	951
2400	25	73	155	15.3	4.2	652	5.8	908
	24	69	152	14.5	4.4	669	6.1	934
	23	66	148	13.8	4.6	686	6.5	956
	22	62	143	13.0	4.9	704	6.8	982
2300	25	69	151	14.4	4.4	673	6.2	938
	24	65	148	13.7	4.7	691	6.5	960
	23	62	143	13.0	4.9	708	6.9	982
	22	58	139	12.3	5.2	721	7.3	1003
2200	25	63	145	13.3	4.8	699	6.7	973
	24	60	142	12.7	5.0	712	7.0	990
	23	57	137	12.1	5.3	725	7.4	1012
	22	54	132	11.4	5.6	738	7.8	1030
	21	50	127	10.8	5.9	747	8.2	1042
	20	47	120	10.2	6.3	751	8.7	1042
	19	44	111	9.6	6.7	743	9.3	1034

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CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

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12,500 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	19	63	139	13.3	4.8	765	6.7	1064
	18	59	133	12.4	5.1	786	7.2	1090
	17	55	126	11.6	5.5	799	7.7	1108
	16	50	118	10.8	5.9	795	8.3	1108
2500	19	61	156	12.9	5.0	777	6.9	1077
	18	57	149	12.1	5.3	790	7.4	1103
	17	53	140	11.3	5.7	799	7.9	1108
	16	48	129	10.4	6.1	790	8.5	1103
2400	19	57	150	12.1	5.3	790	7.3	1099
	18	53	142	11.4	5.6	799	7.8	1108
	17	49	132	10.6	6.0	795	8.4	1103
	16	45	121	9.9	6.5	782	9.0	1086
2300	19	54	143	11.4	5.6	799	7.8	1108
	18	50	133	10.7	6.0	795	8.3	1103
	17	46	122	10.0	6.4	786	8.9	1095
2200	19	50	133	10.7	6.0	795	8.3	1103
	18	46	123	10.0	6.4	786	8.9	1095

CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight- 3800 Pounds

15,000 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	17	57	133	12.1	5.3	812	7.4	1130
	16	52	126	11.2	5.7	812	8.0	1130
	15	48	118	10.3	6.2	804	8.6	1116
2500	17	55	148	11.7	5.5	812	7.6	1130
	16	51	137	10.9	5.9	808	8.2	1125
	15	46	124	10.0	6.4	795	8.9	1108
2400	17	52	140	11.1	5.8	812	8.1	1130
	16	47	129	10.3	6.2	804	8.7	1116
2300	17	48	130	10.4	6.2	804	8.6	1121
	16	44	118	9.6	6.6	782	9.2	1090
2200	17	45	120	9.7	6.6	786	9.1	1095

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CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight- 3800 Pounds

7500 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	23	75	162	15.7	4.1	665	5.7	925
	22	71	160	14.8	4.3	686	6.0	951
	21	67	155	14.0	4.6	704	6.4	982
	20	63	149	13.2	4.9	725	6.8	1008
2500	23	73	161	15.2	4.2	678	5.8	938
	22	69	156	14.4	4.4	695	6.2	969
	21	65	152	13.6	4.7	712	6.5	995
	20	61	146	12.8	5.0	734	7.0	1021
2400	23	68	155	14.2	4.5	699	6.3	973
	22	64	151	13.5	4.8	717	6.6	999
	21	60	146	12.7	5.0	734	7.0	1021
	20	57	141	12.0	5.3	751	7.4	1042
2300	23	64	150	13.4	4.8	721	6.6	999
	22	60	146	12.7	5.0	734	7.0	1021
	21	57	141	12.0	5.3	751	7.4	1042
	20	53	135	11.3	5.7	760	7.9	1060
2200	23	59	144	12.4	5.1	743	7.2	1030
	22	56	139	11.8	5.4	756	7.5	1047
	21	52	131	11.2	5.7	764	7.9	1060
	20	49	127	10.6	6.1	764	8.4	1064
	19	46	118	9.9	6.4	760	9.0	1060

CRUISE PERFORMANCE

NORMAL LEAN MIXTURE

Standard Conditions \ Zero Wind \ Gross Weight- 3800 Pounds

10,000 FEET

RPM	MP	% BHP	TAS KN	GAL/HOUR	64 GAL(NO RESERVE)		89 GAL(NO RESERVE)	
					ENDR. HOURS	RANGE NMILES	ENDR. HOURS	RANGE NMILES
2550	21	69	162	14.5	4.4	717	6.1	995
	20	65	157	13.7	4.7	734	6.5	1021
	19	61	151	12.8	5.0	756	6.9	1051
	18	56	144	12.0	5.3	773	7.4	1073
2500	21	67	160	14.1	4.5	725	6.3	1008
	20	63	154	13.3	4.8	743	6.7	1034
	19	59	148	12.4	5.1	765	7.2	1060
	18	55	142	11.6	5.5	777	7.7	1082
2400	21	63	154	13.2	4.9	747	6.8	1038
	20	59	148	12.4	5.1	764	7.2	1060
	19	55	142	11.7	5.5	777	7.6	1082
	18	51	134	11.0	5.8	782	8.1	1086
2300	21	59	148	12.4	5.2	764	7.2	1064
	20	55	142	11.7	5.5	777	7.6	1082
	19	51	135	11.0	5.8	782	8.1	1086
	18	48	125	10.3	6.2	777	8.6	1082
2200	21	54	141	11.6	5.5	777	7.7	1082
	20	51	134	11.0	5.8	782	8.1	1086
	19	48	125	10.3	6.2	777	8.6	1082
	18	44	116	9.7	6.6	769	9.2	1068

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TAKE-OFF DATA										
TAKE-OFF DISTANCE WITH 10° FLAPS FROM HARD SURFACE RUNWAY										
GROSS WEIGHT POUNDS	IAS @50° KNOTS	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
3800	71	0	1100	1900	1325	2305	1600	2855	1955	3790
		10	820	1505	1000	1840	1215	2305	1505	3110
3400	67	0	850	1505	1020	1780	1225	2130	1495	2655
		10	620	1175	1400	1695	755	1130	2135	1665
3000	63	0	640	1190	765	1380	915	1610	1110	1940
		10	455	920	555	1070	675	1265	825	1535
		20	305	675	375	800	465	950	580	1170

NOTES:

1. Increase distances 10% for each 20°F above standard temperature for particular altitude.

2. For copy number of dry, icy, or wet runway, increase distances both "ground run" and "total to clear 50 ft. obstacle" by 5% of the "total to clear 50 ft. obstacle" figure.

NOTES: 1. Increase distances 10% for each 20° F above standard temperature for particular altitude.
2. For operation on a dry, grass runway, increase distances (both "ground run" and "total to clear 50 ft. obstacle") by 5% of the "total to clear 50 ft. obstacle" figure.

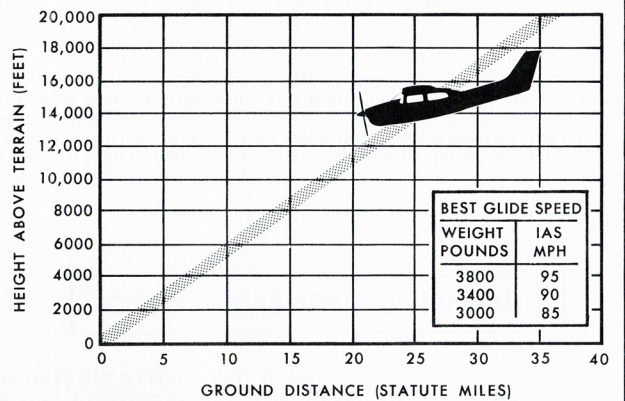
MAXIMUM RATE-OF-CLIMB DATA

GROSS WEIGHT POUNDS	AT SEA LEVEL & 59°F			AT 5000 FT & 41°F			AT 10,000 FT & 23°F			AT 15,000 FT & 5°F		
	RATE OF CLIMB FT/MIN.	GAL OF FUEL USED	FROM S.L. FUEL USED	RATE OF CLIMB FT/MIN.	IAS KNOTS	FROM S.L. FUEL USED	RATE OF CLIMB FT/MIN.	IAS KNOTS	FROM S.L. FUEL USED	RATE OF CLIMB FT/MIN.	IAS KNOTS	FROM S.L. FUEL USED
3800	880	2.0	4.4	610	91	4.4	365	89	7.7	85	120	14.0
	1025	2.0	770	770	86	6.5	505	86	6.5	83	250	10.3
	1230	2.0	950	950	86	3.6	670	83	5.6	80	395	8.2

NOTES: 1. Full throttle, 2700 RPM, mixture at recommended leaning schedule, flaps up.
2. Fuel used includes warm-up and take-off allowance.
3. For hot weather, decrease rate of climb 30 ft./min. for each 10° F above standard day temperature for particular altitude.

MAXIMUM GLIDE

- PROPELLER WINDMILLING
- GEAR UP • FLAPS UP
- ZERO WIND



LANDING DISTANCE TABLE

LANDING DISTANCE WITH 30° FLAPS ON HARD SURFACED RUNWAY

GROSS WEIGHT POUNDS	APPROACH IAS KNOTS	@ 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.
3800	71	765	1500	815	1595	865	1695	920	1805

NOTES: 1. Distances shown are based on zero wind, power off, and heavy braking.
2. Reduce landing distances 10% for each 5 knots headwind.
3. For operation on a dry, grass runway, increase distances (both "ground roll" and "total to clear 50 ft. obstacle") by 20% of the "total to clear 50 ft. obstacle" figure.

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