

PART IV

PERFORMANCE DATA

FIGURE 1
TAKE OFF AND CLIMB DATA

Alt. Feet	Temp. °F.	TAKE OFF WEIGHT 2200 LBS.				TAKE OFF WEIGHT 2575 LBS.			
		Ground Run Feet*	Total Dist. To Clear 50'*	Max. R/C Ft/Min	Best R/C Speed IAS	Ground Run Feet*	Total Dist. To Clear 50'*	Max. R/C Ft/Min	Best R/C Speed IAS
SEA LEVEL	100°	745	1290	895	97	1030	1760	695	97
	59°	620	1075	1000	100	815	1395	800	100
	20°	520	900	1110	103	660	1130	910	103
2500'	90°	900	1560	795	95	1345	2305	595	95
	50°	745	1290	900	98	1030	1760	700	98
	10°	615	1065	1010	100	805	1380	810	100
5000'	80°	1125	1955	700	93	1910	3275	500	93
	41°	900	1560	795	95	1340	2300	595	95
	0°	740	1280	910	98	1000	1715	710	98

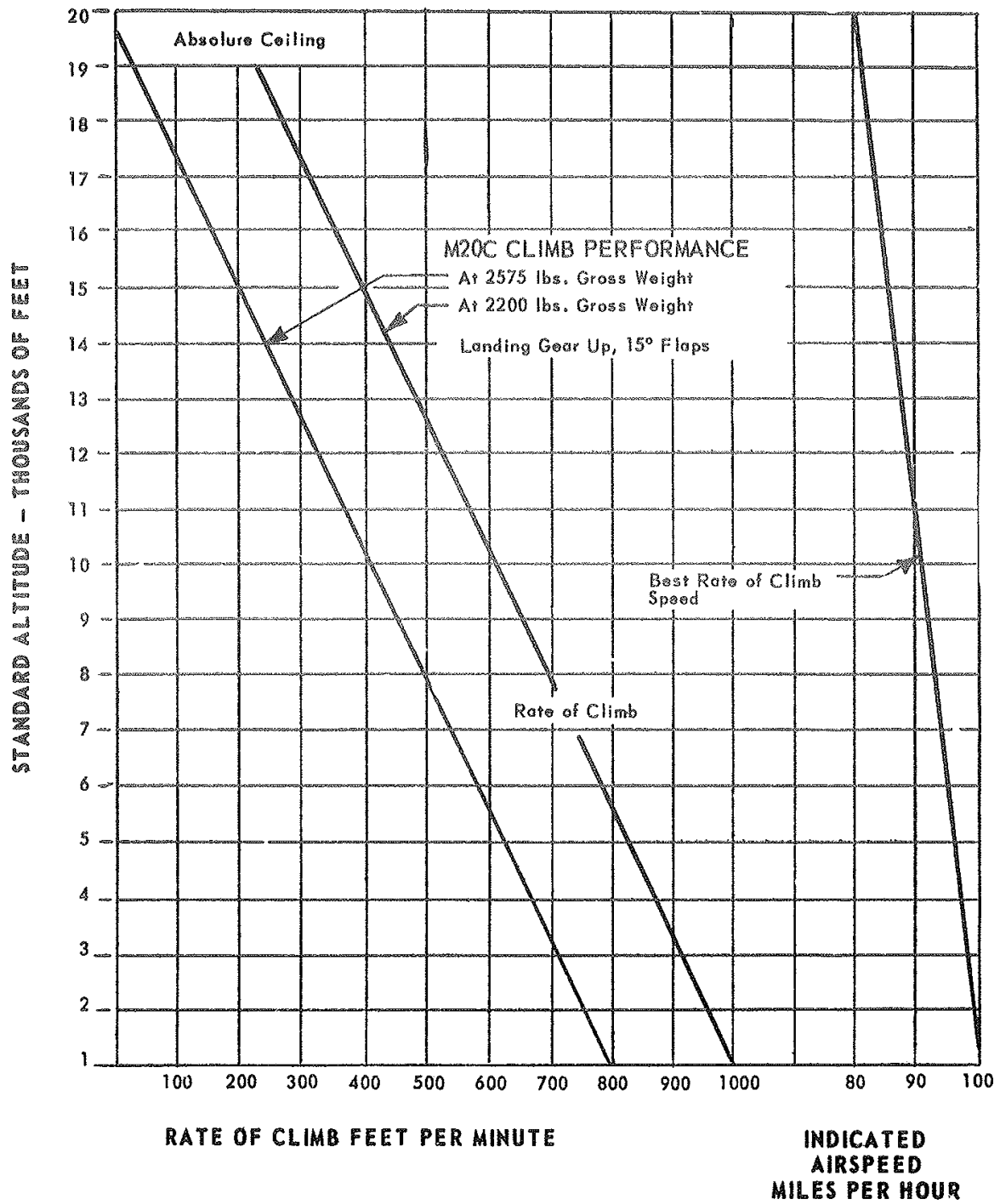
TAKE OFF CONFIGURATION:

- * Gear down, full rich mixture, 15° (take off position) flaps
- Wind calm — hard surface runway

CLIMB CONFIGURATION:

Gear Up — Best Power Mixture — Cowl Flaps Open — Flaps Up

FIGURE 2



CRUISE & RANGE DATA

WEIGHT = 2200 LBS.: BEST POWER MIXTURE

52 GAL. USABLE FUEL; NO RESERVE FOR RANGE CALCULATIONS

STANDARD ATMOSPHERE

ALTITUDE 2500' MSL

R.P.M.	M.P. IN.HG.	B.H.P.	% B.H.P.	GAL. HOUR	LBS. HOUR	TRUE AIR SPEED	ENDUR. HR:MIN.	RANGE Statute MILES
2600	27.0	170	95	14.4	86.4	185	3:37	667
	26.0	162	90	13.4	80.4	180	3:53	697
	25.0	155	86	12.8	76.8	175	4:04	710
	24.0	147	82	12.0	72.0	170	4:20	736
2500	26.0	159	88	13.1	78.6	178	3:58	705
	25.0	151	84	12.3	73.8	174	4:13	735
	24.0	144	80	11.6	69.6	168	4:29	752
	23.0	136	76	11.0	66.0	163	4:32	770
2400	25.0	148	82	11.7	70.2	171	4:26	759
	24.0	140	78	11.0	66.0	166	4:43	784
	23.0	132	73	10.4	62.4	160	5:00	800
	22.0	125	70	9.8	58.8	154	5:19	817
2300	24.0	136	76	10.7	64.2	163	4:52	792
	23.0	128	71	10.0	60.0	157	5:12	816
	22.0	121	67	9.5	57.0	152	5:28	831
	21.0	113	63	8.9	53.4	145	5:50	847
1800*	17.0	66	37	5.7	34.2	109	9:07	994

* MAXIMUM RANGE

ACCURACY OF DATA IS $\pm 3\%$

EACH 100 LBS. CHANGE IN AIRPLANE WEIGHT
WILL AFFECT TAS BY 1.2 MPH.

FIGURE 3A

CRUISE & RANGE DATA

WEIGHT = 2200 LBS.: BEST POWER MIXTURE

52 GAL. USABLE FUEL; NO RESERVE FOR RANGE CALCULATIONS

STANDARD ATMOSPHERE

ALTITUDE 5000' MSL

R.P.M.	M.P. IN.HG.	B.H.P.	% B.H.P.	GAL. HOUR	LBS. HOUR	TRUE AIR SPEED	ENDUR. HR:MIN.	RANGE Statute MILES
2600	24.5	156	87	12.9	77.4	185	4:02	745
	24.0	152	84	12.5	75.0	182	4:10	757
	23.0	144	80	11.8	70.8	177	4:25	779
	22.0	136	76	11.1	66.6	170	4:41	795
2500	24.5	153	85	12.4	74.4	183	4:11	765
	24.0	149	83	12.1	72.6	180	4:18	774
	23.0	141	78	11.4	68.4	175	4:34	798
	22.0	133	74	10.7	64.2	168	4:52	816
2400	24.5	149	83	11.9	71.4	180	4:22	785
	24.0	145	81	11.5	69.0	178	4:31	803
	23.0	138	77	10.9	65.4	172	4:46	820
	22.0	130	72	10.2	61.2	166	5:05	844
2300	24.0	141	78	11.2	67.2	175	4:39	813
	23.0	133	74	10.5	63.0	168	4:57	831
	22.0	126	70	9.9	59.4	163	5:15	856
	21.0	118	66	9.3	55.8	157	5:35	877
1800*	16.9	69	38	5.9	35.6	113	8:49	996

* MAXIMUM RANGE

ACCURACY OF DATA IS $\pm 3\%$

EACH 100 LBS. CHANGE IN AIRPLANE WEIGHT
WILL AFFECT TAS BY 1.2 MPH.

FIGURE 3B

CRUISE & RANGE DATA

WEIGHT = 2200 LBS.: BEST POWER MIXTURE

52 GAL. USABLE FUEL; NO RESERVE FOR RANGE CALCULATIONS

STANDARD ATMOSPHERE

ALTITUDE 7500' MSL

R.P.M.	M.P. IN.HG.	B.H.P.	% B.H.P.	GAL. HOUR	LBS. HOUR	TRUE AIR SPEED	ENDUR. HR:MIN.	RANGE Statute MILES
2600	22.5	145	81	11.8	70.8	184	4:25	811
	22.0	140	78	11.5	69.0	180	4:31	813
	21.0	132	73	10.8	64.8	173	4:49	831
	20.0	124	69	10.2	61.2	167	5:06	852
2500	22.5	142	79	11.4	68.4	182	4:34	829
	22.0	137	76	11.0	66.0	177	4:43	836
	21.0	129	72	10.4	62.4	171	5:00	855
	20.0	121	67	9.8	58.8	164	5:19	870
2400	22.5	138	77	10.8	64.3	178	4:49	855
	22.0	134	74	10.6	63.6	175	4:55	859
	21.0	126	70	9.9	59.4	169	5:15	888
	20.0	118	66	9.3	55.8	161	5:35	900
2300	22.5	134	74	10.6	63.6	175	4:55	859
	22.0	130	72	10.2	61.2	172	5:06	877
	21.0	122	68	9.6	57.6	165	5:25	893
	20.0	114	63	9.0	54.0	158	5:46	912
1800*	16.8	72	40	6.0	36.0	117	8:40	1013

* MAXIMUM RANGE

ACCURACY OF DATA IS $\pm 3\%$

EACH 100 LBS. CHANGE IN AIRPLANE WEIGHT
WILL AFFECT TAS BY 1.2 MPH.

FIGURE 3C

CRUISE & RANGE DATA

WEIGHT = 2200 LBS.: BEST POWER MIXTURE

52 GAL. USABLE FUEL; NO RESERVE FOR RANGE CALCULATIONS

STANDARD ATMOSPHERE

ALTITUDE 10,000' MSL

R.P.M.	M.P. IN.HG.	B.H.P.	% B.H.P.	GAL. HOUR	LBS. HOUR	TRUE AIR SPEED	ENDUR. HR:MIN.	RANGE Statute MILES
2600	20.25	130	72	10.6	63.6	178	4:55	873
	19.0	120	67	9.9	59.4	168	5:15	882
	18.0	112	62	9.3	55.8	161	5:35	900
	17.0	103	57	8.7	52.2	151	5:59	903
2500	20.25	128	71	10.3	61.8	176	5:03	888
	19.0	118	66	9.5	57.0	166	5:28	907
	18.0	109	61	9.0	54.0	158	5:46	912
	17.0	101	56	8.4	50.4	150	6:11	927
2400	20.25	124	69	9.8	58.8	171	5:19	907
	19.0	115	64	9.1	54.6	164	5:43	935
	18.0	107	59	8.5	51.0	156	6:07	954
	17.0	98	54	8.0	48.0	146	6:30	948
2300	20.25	120	67	9.4	56.4	168	5:32	929
	19.0	111	62	8.8	52.8	159	5:54	939
	18.0	103	57	8.2	49.2	151	6:20	956
	17.0	96	53	7.8	46.8	144	6:40	959
1800*	16.6	74	41	6.15	36.9	122	8:27	1031

* MAXIMUM RANGE

ACCURACY OF DATA IS $\pm 3\%$

EACH 100 LBS. CHANGE IN AIRPLANE WEIGHT
WILL AFFECT TAS BY 1.2 MPH.