LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT

Aeroplane Type:..... CESSNA 182T

Registration Marking:.... **VH-ZFB** Serial No: 18281606

ISSUE:.... ONE	DATE:..... 15-Mar-21	EXPIRY:..... INDEFINITE

AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:

ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	**915.2**	**988**	**904497**	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK SECTION SIX				
	(lb)	(in)	(in.lb/1000)	
EMPTY	**2017.7**	**38.9**	**78.51**	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and full oil

AeroWeigh Pty. Ltd.
BRUCE CUSSOLD
AUTHORITY NUMBER AN-9
MOBILE: 0412 58 5551

LOAD DATA SHEET - PAGE 2 OF 3 - EQUIPMENT LIST

This list details the items included in the empty weight shown in Page 1.

Aeroplane Type:..... CESSNA 182T
Registration Marking:..... **VH-ZFB** Serial No: 18281606

ISSUE:.... ONE DATE:..... 15-Mar-21

ENGINES/PROPELLERS
Lycoming IO-540-ABIA5... 1
McCauley B3D36C431..... 1

COMPASSES
Magnetic..... 1
Remote Indicating..... **1***

THERMOMETERS
Engine Temp(Cyl.Hd.)..... **1***
Oil Temp..... **1***
Outside Air Temp..... **1***

INDICATORS
Airspeed..... **1***
Airspeed (Standby)..... 1
Directional Gyro..... **1***
E.G.T..... **1***
Flight Hour..... 1
Fuel Flow..... **1***
Gyro Horizon..... **1***
Gyro Horizon (Standby).... 1
Stall Warning..... **1***
Tacho Non-recording..... **1***
Trim Indicator..... 2
Turn Co-ordinator (Blind).. 1
Vertical Speed..... **1***
Wing Flap Position..... 1
Assigned Altitude..... **1***

AVIONICS EQUIPMENT (TYPE)

ADF.....	0
Autopilot.....	KING KAP140
Speakers.....	1
G/slope.....	PART NAVS
Headsets.....	1
GPS/Com....	GARMIN GIA63 (x2)
Displays.....	GARMIN GDU1040 (x2)
Audio.....	GARMIN GMA1347
Txponder.....	GARMIN GTX345R
AHRS.....	GARMIN GRS77
Air Data.....	GARMIN GDC-74A
Analizer.....	GARMIN GEA71
Stormscope.	L3 COMM WX500
Magntomtr...	GARMIN GMU44
Datalink.....	GARMIN GDL-69A

INSTRUMENTS
Altimeters..... **1***
Altimeters (Standby)..... 1
Ammeters..... **1***
Voltmeters..... **1***
Clocks..... **1***

GAUGES
Engine Oil Pressure..... **1***
Fuel Contents..... **1***
Manifold Pressure..... **1***
Suction Pressure..... **1***

LIGHTS
Anti-collision..... 1
Inst. Full Panel Flood..... 1
Landing/Taxi..... 2
Map Reading..... 1
Navigation..... 3
White Strobes (tips)..... 2
Passenger Overhead..... 1
Wing Courtesy..... 2

RESTRAINT EQUIPMENT
Baggage Net..... 1
Inertia Reels..... 4
Lap-sash harnesses..... 4
Inflatable Restraints..... 4

MISCELLANEOUS EQUIPMENT
Dual Controls..... 1
Fire Ext.(Portable)..... 1
Cabin Heater..... 1
Vacuum Pumps..... 1
Heated Pitots..... 1
Alternate Static..... 1
Sun Visors..... Rosen
Standby Battery..... 1
Electric Trim..... 1
Wheel Fairings..... 3

DISPOSABLE LOAD LIST
First Aid Kit..... 0
Torch..... 1
V.S.Beacon/E.L.T..... Artex ME406

*** ITEMS MARKED ARE PART OF ELECTRONIC DISPLAYS**

LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... CESSNA 182T

Registration Marking:..... **VH-ZFB** Serial No: 18281606

ISSUE:.... ONE	DATE:..... 15-Mar-21

The following is valid only for the Empty Weight specified in Page 1 of 3 Aeroplane Weight dated.. 15-Mar-21 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

1. OCCUPANTS:-

Load Front to Rear (i.e. Front seats first)
Load Heaviest Passengers in front row

2. BAGGAGE COMPARTMENT LIMITATIONS:-

Number of Occupants	**Maximum *** Total Baggage
One(pilot)	90.7 Kg
Two	90.7 Kg
Three	78.3 Kg
Four	29.3 Kg

*For Baggage Bay Limits Refer POH Section 6

3. WING MAIN FUEL:-

Fuel is limited only by All Up Weight

MAXIMUM TAKE-OFF WEIGHT.....1406 Kg
MAXIMUM LANDING WEIGHT.....1338 Kg

*******OPTIONAL LOAD CHART******

If Loading can not conform to the above limitations, a full load check should be carried out on Load Chart BC/C182/5 for Cessna 182T (22 August 2017).

LOAD CHART

Aeroplane Type:..... CESSNA 182T

Registration Marking:..... **VH-ZFB** Serial No: 18281606

INSTRUCTIONS FOR LOAD CHART BC/C182/5 ISSUE ONE (22 August 2017)

1. Use standard trim sheet procedures.Enter top of chart using current Basic EMPTY empty Weight and Arm obtained from the Load Data Sheet.

2. Total load weights in left hand column obtaining Zero Fuel Weight and Take-off Weight.
   Draw horizontal lines on the C.G. Limits Graph at the bottom of the chart.

3. From the Basic Weight Versus Arm point at the top of the chart, draw a line VERTICALLY down until it intersects one of the oblique lines on the first load item scale.
   (NOTE: Front seats has "NIL" Scale)

4. Move HORIZONTALLY along the load item scale in the direction of the arrow and mark a point appropriate to the load indicated in the left hand column. [e.g. with 50 Kg/Div a 100 Kg load = 2 Div.]

5. Draw a VERTICAL line down to the next load item scale and repeat the above process. (Exercise care in plotting values of segments, noting that occupant scale segments are 50 Kg)

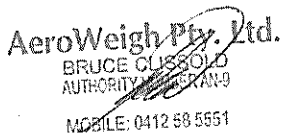
6. Proceed VERTICALLY down the load item scales, moving to left or right as indicated by the arrows and marking scale divisions as appropriate to each load.

7. From the last cabin load item scale draw a line VERTICALLY down to intersect the Zero Fuel line previously drawn on the limits graph.

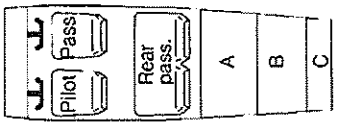
8. Continue down to the fuel scales and mark off the appropriate load, noting that FUEL has 50 Kg/Div scales, then draw a line VERTICALLY down from the last fuel point to intersect the Take-off Weight line previously drawn on the limits graph.

9. The two intersection points above must not exceed the boundaries of the limits graph (heavily lined). If either point does, then the load must be rearranged and loading rechecked with steps 2 to 8.

*****DO NOT EXCEED MAXIMUM WEIGHTS SHOWN ON THE CHART*****



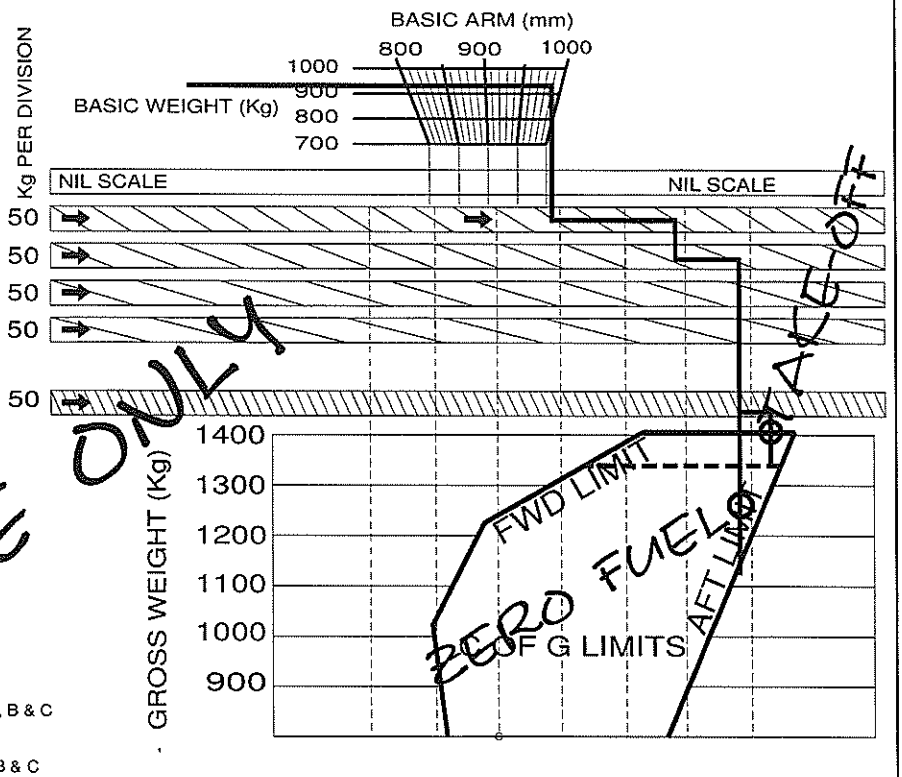
LOAD CHART BC/C182/5 CESSNA 182T SKYLANE



BASIC WEIGHT	915
FRONT SEATS	150
REAR SEATS	150
BAG A (MAX 54)	50
BAG B (MAX 36)	
BAG C (MAX 36)	
ZERO FUEL WT	1265
FUEL	141
TAKE-OFF WT	1406
FLIGHT FUEL	80
LANDING WT	1326

MAXIMUM TAKE-OFF WEIGHT
1406 Kg
MAXIMUM LANDING WEIGHT
1338 Kg

MAXIMUM COMBINED WEIGHT IN AREAS A, B & C
90 Kg
MAXIMUM COMBINED WEIGHT IN AREAS B & C
36 Kg



SAMPLE ONLY

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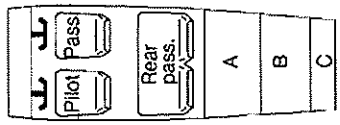
BC/C182/5 22 AUGUST 2017

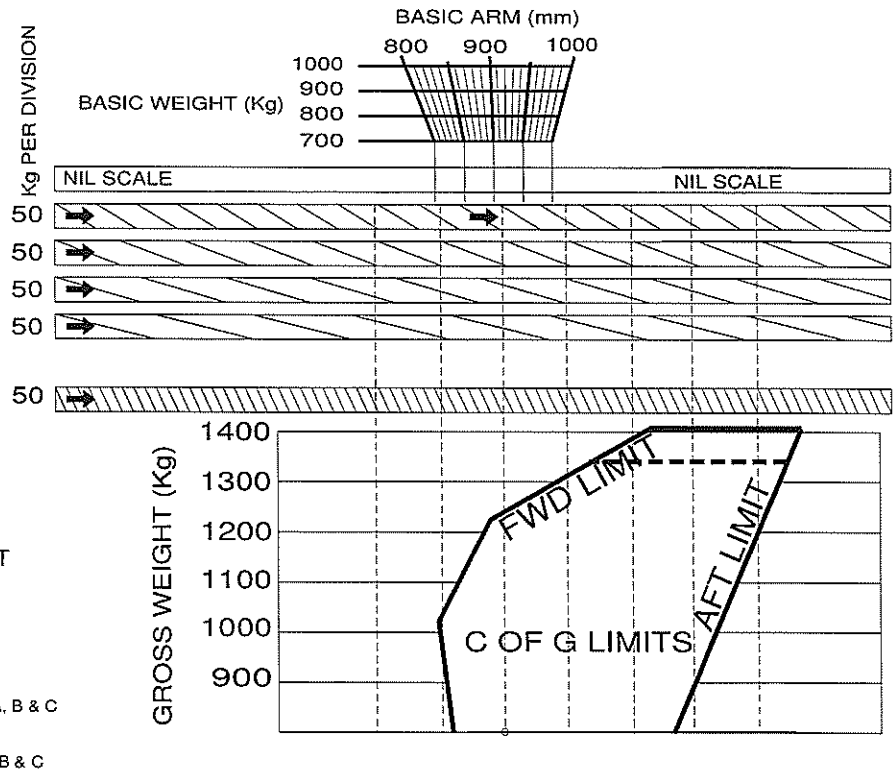
LOAD CHART BC/C182/5 CESSNA 182T SKYLANE



BASIC WEIGHT	
FRONT SEATS	
REAR SEATS	
BAG A (MAX 54)	
BAG B (MAX 36)	
BAG C (MAX 36)	
ZERO FUEL WT	
FUEL	
TAKE-OFF WT	
FLIGHT FUEL	
LANDING WT	

MAXIMUM TAKE-OFF WEIGHT
1406 Kg
MAXIMUM LANDING WEIGHT
1338 Kg

MAXIMUM COMBINED WEIGHT IN AREAS A, B & C
90 Kg
MAXIMUM COMBINED WEIGHT IN AREAS B & C
36 Kg



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BC/C182/5 22 AUGUST 2017

SHORT FIELD TAKEOFF DISTANCE AT 3100 POUNDS

CONDITIONS:
Flaps 20°
2400 RPM, Full Throttle and mixture set prior to brake release.
Cowl Flaps OPEN
Paved, Level, Dry Runway
Zero Wind

Lift Off: 49 KIAS
Speed at 50 Feet: 58 KIAS

Pressure Altitude - Feet	0°C		10°C		20°C		30°C		40°C	
	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst
Sea Level	715	1365	765	1460	825	1570	885	1680	945	1800
1000	775	1490	835	1600	900	1720	965	1845	1030	1980
2000	850	1635	915	1760	980	1890	1055	2035	1130	2190
3000	925	1800	995	1940	1070	2090	1150	2255	1235	2435
4000	1015	1990	1090	2150	1175	2325	1260	2515	1355	2720
5000	1110	2210	1195	2395	1290	2595	1385	2820	1485	3070
6000	1220	2470	1315	2690	1415	2930	1520	3200	1635	3510
7000	1340	2785	1445	3045	1560	3345	1675	3685	—	—
8000	1480	3175	1595	3500	1720	3880	—	—	—	—

NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- Where distance value have been deleted, climb performance after lift-off is less than 150 FPM at takeoff speed.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 1 of 3)*

SHORT FIELD TAKEOFF DISTANCE AT 2700 POUNDS

CONDITIONS:
Flaps 20°
2400 RPM, Full Throttle and mixture set prior to brake release.
Cowl Flaps OPEN
Paved, Level, Dry Runway
Zero Wind

Lift Off: 45 KIAS
Speed at 50 Feet: 54 KIAS

Pressure Altitude - Feet	0°C		10°C		20°C		30°C		40°C	
	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst
Sea Level	520	995	560	1065	600	1135	645	1215	690	1295
1000	565	1080	610	1155	655	1235	700	1320	750	1410
2000	615	1180	665	1260	710	1350	765	1445	820	1545
3000	675	1285	725	1380	775	1480	835	1585	895	1695
4000	735	1410	790	1510	850	1625	910	1740	975	1870
5000	805	1550	865	1665	930	1790	1000	1920	1070	2065
6000	880	1705	950	1840	1020	1980	1095	2135	1175	2300
7000	965	1890	1040	2040	1120	2205	1200	2380	1290	2575
8000	1060	2100	1145	2275	1230	2465	1320	2675	1420	2910

NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 2)*

SHORT FIELD TAKEOFF DISTANCE AT 2300 POUNDS

CONDITIONS:
Flaps 20°
2400 RPM, Full Throttle and mixture set prior to brake release.
Cowl Flaps OPEN
Paved, Level, Dry Runway — Lift Off: 42 KIAS
Zero Wind — Speed at 50 Feet: 50 KIAS

Pressure Altitude - Feet	0°C		10°C		20°C		30°C		40°C	
	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst
Sea Level	365	705	390	750	420	800	450	850	480	905
1000	395	765	425	815	455	870	490	925	520	985
2000	430	830	460	885	495	940	530	1005	565	1070
3000	470	900	505	960	540	1025	580	1090	620	1165
4000	510	980	550	1045	590	1115	630	1190	675	1270
5000	555	1065	600	1140	640	1220	690	1305	735	1390
6000	610	1165	655	1250	700	1335	755	1430	805	1530
7000	665	1275	715	1370	770	1470	825	1570	885	1685
8000	730	1405	785	1510	845	1620	905	1735	970	1865

NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 3)*

MAXIMUM RATE OF CLIMB AT 3100 POUNDS

CONDITIONS:

Flaps UP
2400 RPM, Full Throttle and mixture set to Maximum Power Fuel Flow Placard.
Cowl Flaps OPEN

Pressure Altitude - Feet	Climb Speed - KIAS	Rate of Climb - FPM			
		-20°C	0°C	20°C	40°C
Sea Level	80	1055	980	905	835
2000	79	945	875	805	735
4000	78	840	770	705	635
6000	77	735	670	605	535
8000	75	625	560	495	430
10,000	74	520	455	390	330
12,000	73	410	350	285	225
14,000	72	310	250	190	130

Figure 5-7*

CRUISE PERFORMANCE
PRESSURE ALTITUDE SEA LEVEL

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -5°C			STANDARD TEMPERATURE 15°C			20°C ABOVE STANDARD TEMP 35°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	27	---	---	---	---	---	---	---	---	---
	26	---	---	---	---	---	---	82	140	14.3
	25	84	134	14.5	81	136	14.0	78	138	13.5
	24	79	132	13.6	76	133	13.2	74	135	12.8
	23	74	129	12.8	71	130	12.4	69	131	12.1
	22	69	126	12.1	67	127	11.7	65	127	11.4
	21	65	122	11.4	62	122	11.1	60	123	10.8
	20	60	118	10.7	58	118	10.4	56	118	10.2
2300	27	—	---	—	---	—	—	84	141	14.5
	26	—	—	---	82	137	14.2	79	139	13.7
	25	80	133	13.9	78	135	13.4	75	136	13.0
	24	76	130	13.2	73	132	12.7	71	132	12.3
	23	71	127	12.4	69	128	12.0	67	129	11.7
	22	67	124	11.7	65	124	11.4	62	125	11.1
	21	62	120	11.1	60	120	10.8	58	121	10.5
	20	58	116	10.4	56	116	10.2	54	116	9.9
2200	27	—	—	—	83	137	14.4	80	139	13.9
	26	82	133	14.2	79	135	13.6	76	136	13.2
	25	77	131	13.4	75	133	12.9	72	134	12.6
	24	73	129	12.7	71	130	12.3	68	130	11.9
	23	69	126	12.0	66	126	11.7	64	126	11.3
	22	65	122	11.4	62	122	11.1	60	123	10.8
	21	60	118	10.8	58	119	10.5	56	118	10.2
	20	56	114	10.2	54	114	9.9	52	114	9.7

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 1 of 11)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE SEA LEVEL

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -5°C			STANDARD TEMPERATURE 15°C			20°C ABOVE STANDARD TEMP 35°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2100	27	82	133	14.2	79	135	13.7	76	136	13.2
	26	78	131	13.4	75	133	13.0	73	134	12.6
	25	74	129	12.8	71	130	12.4	69	130	12.0
	24	70	126	12.1	67	127	11.8	65	127	11.4
	23	66	123	11.5	63	123	11.2	61	123	10.9
	22	61	119	10.9	59	120	10.6	57	120	10.4
	21	57	115	10.4	55	116	10.1	54	115	9.9
	20	53	111	9.8	51	111	9.6	50	111	9.3
2000	27	78	131	13.4	75	133	13.0	72	134	12.6
	26	74	129	12.8	71	130	12.4	69	131	12.0
	25	70	126	12.2	67	127	11.8	65	127	11.5
	24	66	123	11.6	64	124	11.3	62	124	11.0
	23	62	120	11.0	60	120	10.7	58	121	10.5
	22	58	116	10.5	56	117	10.2	54	116	10.0
	21	54	113	10.0	53	112	9.7	51	112	9.5
	20	51	108	9.4	49	108	9.2	47	108	9.0

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 2)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 2000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -9°C			STANDARD TEMPERATURE 11°C			20°C ABOVE STANDARD TEMP 31°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	26	—	—	—	—	—	—	—	—	—
	25	—	—	—	83	140	14.4	80	142	13.9
	24	81	136	14.1	79	138	13.6	76	139	13.2
	23	77	133	13.3	74	134	12.8	71	135	12.4
	22	72	130	12.5	69	131	12.1	67	131	11.7
	21	67	126	11.8	65	126	11.4	63	127	11.1
	20	62	122	11.0	60	122	10.7	58	122	10.5
2300	26	—	—	—	—	—	—	82	143	14.2
	25	83	137	14.4	80	139	13.9	77	140	13.4
	24	78	134	13.6	76	136	13.1	73	137	12.7
	23	74	131	12.8	71	133	12.4	69	133	12.0
	22	69	128	12.1	67	128	11.7	65	129	11.4
	21	65	124	11.4	62	124	11.1	60	125	10.8
	20	60	120	10.7	58	120	10.5	56	120	10.2
2200	26	—	—	—	81	139	14.1	78	140	13.6
	25	80	135	13.8	77	137	13.3	74	138	12.9
	24	75	132	13.1	73	134	12.6	70	134	12.3
	23	71	129	12.4	69	130	12.0	66	130	11.6
	22	67	126	11.7	64	126	11.4	62	127	11.0
	21	62	122	11.1	60	122	10.8	58	122	10.5
	20	58	118	10.5	56	118	10.2	54	118	9.9

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 3)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 2000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -9°C			STANDARD TEMPERATURE 11°C			20°C ABOVE STANDARD TEMP 31°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2100	26	80	135	13.9	77	137	13.4	75	138	12.9
	25	76	133	13.1	73	134	12.7	71	134	12.3
	24	72	130	12.5	69	131	12.1	67	131	11.7
	23	68	127	11.8	65	127	11.5	63	127	11.2
	22	64	123	11.2	61	123	10.9	59	124	10.6
	21	59	119	10.6	57	119	10.4	55	119	10.1
	20	55	115	10.1	53	115	9.8	52	115	9.6
2000	26	76	133	13.1	73	134	12.7	71	134	12.3
	25	72	130	12.5	69	131	12.1	67	131	11.8
	24	68	127	11.9	66	127	11.5	64	128	11.2
	23	64	124	11.3	62	124	11.0	60	124	10.7
	22	60	120	10.8	58	120	10.5	56	120	10.2
	21	56	116	10.2	54	116	10.0	53	116	9.7
	20	52	112	9.7	51	112	9.4	49	111	9.2

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 4)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 4000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -13°C			STANDARD TEMPERATURE 7°C			20°C ABOVE STANDARD TEMP 27°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	25	—	—	—	—	—	—	83	146	14.4
	24	84	140	14.6	81	142	14.0	78	143	13.6
	23	79	138	13.7	76	139	13.2	74	139	12.8
	22	74	134	12.9	72	135	12.5	69	135	12.1
	21	70	130	12.1	67	131	11.7	65	131	11.4
	20	65	126	11.4	62	126	11.1	60	126	10.8
2300	25	—	—	—	83	143	14.3	80	144	13.8
	24	81	138	14.0	78	140	13.5	75	141	13.1
	23	76	135	13.2	74	137	12.8	71	137	12.4
	22	72	132	12.5	69	133	12.1	67	133	11.7
	21	67	128	11.7	65	128	11.4	62	129	11.1
	20	62	124	11.1	60	124	10.7	58	124	10.5
2200	25	82	139	14.2	79	141	13.7	77	142	13.2
	24	78	136	13.4	75	138	13.0	72	138	12.6
	23	73	133	12.7	71	134	12.3	68	134	11.9
	22	69	130	12.0	66	130	11.7	64	130	11.3
	21	65	126	11.4	62	126	11.0	60	126	10.7
	20	60	122	10.7	58	122	10.4	56	121	10.2

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 5)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 4000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -13°C			STANDARD TEMPERATURE 7°C			20°C ABOVE STANDARD TEMP 27°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2100	25	78	137	13.5	75	138	13.0	73	138	12.6
	24	74	134	12.8	71	135	12.4	69	135	12.0
	23	70	131	12.2	67	131	11.8	65	131	11.4
	22	66	127	11.5	63	127	11.2	61	127	10.9
	21	61	123	10.9	59	123	10.6	57	123	10.3
	20	57	119	10.3	55	119	10.1	53	118	9.8
2000	25	74	134	12.8	71	135	12.4	69	135	12.1
	24	70	131	12.2	68	131	11.8	65	132	11.5
	23	66	127	11.6	64	128	11.3	62	128	11.0
	22	62	124	11.0	60	124	10.7	58	124	10.4
	21	58	120	10.5	56	120	10.2	54	120	9.9
	20	54	116	9.9	52	115	9.7	51	115	9.4

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 6)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 6000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -17°C			STANDARD TEMPERATURE 3°C			20°C ABOVE STANDARD TEMP 23°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	23	82	142	14.2	79	143	13.6	76	144	13.2
	22	77	138	13.3	74	139	12.8	72	139	12.4
	21	72	135	12.5	69	135	12.1	67	135	11.7
	20	67	130	11.7	65	130	11.4	62	131	11.1
	19	62	126	11.0	60	126	10.7	58	125	10.4
2300	23	79	140	13.6	76	141	13.1	73	141	12.7
	22	74	136	12.8	71	137	12.4	69	137	12.0
	21	69	132	12.1	67	133	11.7	64	133	11.4
	20	65	128	11.4	62	128	11.0	60	128	10.7
	19	60	124	10.7	58	123	10.4	56	123	10.1
2200	23	76	137	13.1	73	138	12.6	70	138	12.3
	22	71	134	12.4	69	134	12.0	66	135	11.6
	21	67	130	11.7	64	130	11.3	62	130	11.0
	20	62	126	11.0	60	126	10.7	58	125	10.4
	19	58	121	10.4	56	121	10.1	54	120	9.9
2100	23	72	135	12.5	69	135	12.1	67	135	11.7
	22	68	131	11.8	65	131	11.5	63	131	11.1
	21	63	127	11.2	61	127	10.9	59	127	10.6
	20	59	123	10.6	57	122	10.3	55	122	10.0
	19	55	118	10.0	53	118	9.8	51	117	9.5
2000	23	68	131	11.9	66	132	11.5	63	132	11.2
	22	64	127	11.3	62	128	11.0	60	128	10.7
	21	60	124	10.7	58	123	10.4	56	123	10.2
	20	56	119	10.2	54	119	9.9	52	118	9.7
	19	52	115	9.6	50	114	9.4	48	113	9.1

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 7)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 8000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -21°C			STANDARD TEMPERATURE -1°C			20°C ABOVE STANDARD TEMP 19°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	21	74	139	12.9	72	139	12.5	69	140	12.1
	20	69	134	12.1	67	135	11.7	65	135	11.4
	19	64	130	11.4	62	130	11.0	60	130	10.7
	18	59	125	10.6	57	124	10.3	55	124	10.1
2300	21	72	136	12.5	69	137	12.0	67	137	11.7
	20	67	132	11.7	64	132	11.3	62	132	11.0
	19	62	128	11.0	60	127	10.7	58	127	10.4
	18	57	122	10.3	55	122	10.1	53	121	9.8
2200	21	69	134	12.0	66	134	11.6	64	134	11.3
	20	64	130	11.3	62	130	11.0	60	129	10.7
	19	60	125	10.7	57	125	10.4	55	124	10.1
	18	55	120	10.1	53	119	9.8	51	119	9.5
2100	21	65	131	11.5	63	131	11.2	61	131	10.8
	20	61	127	10.9	59	126	10.6	57	126	10.3
	19	57	122	10.3	55	121	10.0	53	121	9.7
	18	52	117	9.7	50	116	9.4	49	115	9.2
2000	21	62	128	11.0	60	127	10.7	58	127	10.4
	20	58	123	10.4	56	123	10.1	54	122	9.9
	19	54	118	9.9	52	118	9.6	50	117	9.4

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 8)*

CRUISE PERFORMANCE
PRESSURE ALTITUDE 10,000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -25°C			STANDARD TEMPERATURE -5°C			20°C ABOVE STANDARD TEMP 15°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	20	72	139	12.5	69	139	12.1	67	139	11.7
	19	67	134	11.7	64	134	11.3	62	134	11.0
	18	62	129	11.0	59	129	10.6	57	128	10.3
2300	21	74	141	12.8	71	141	12.4	69	142	12.0
	20	69	136	12.1	66	137	11.7	64	136	11.3
	19	64	132	11.3	62	132	11.0	60	131	10.7
	18	59	126	10.6	57	126	10.3	55	125	10.1
2200	20	66	134	11.6	64	134	11.3	62	133	10.9
	19	62	129	11.0	59	129	10.6	57	128	10.4
	18	57	124	10.3	55	123	10.0	53	123	9.8
2100	20	63	131	11.2	61	130	10.8	59	130	10.5
	19	59	126	10.5	56	125	10.2	54	125	10.0
	18	54	121	9.9	52	120	9.7	50	119	9.4
2000	20	60	127	10.7	58	127	10.4	55	126	10.1
	19	56	122	10.1	54	122	9.8	52	121	9.6
	18	51	117	9.6	50	116	9.3	48	115	9.0

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

Figure 5-9 (Sheet 9)*

SHORT FIELD LANDING DISTANCE AT 2950 POUNDS

CONDITIONS:

Flaps FULL
Power IDLE
Maximum Braking

Zero Wind
Paved, Level, Dry Runway
Speed at 50 ft: 60 KIAS

Pressure Altitude - Feet	0°C		10°C		20°C		30°C		40°C	
	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst
Sea Level	560	1300	580	1335	600	1365	620	1400	640	1435
1000	580	1335	600	1365	620	1400	645	1440	665	1475
2000	600	1370	625	1405	645	1440	670	1480	690	1515
3000	625	1410	645	1445	670	1485	695	1525	715	1560
4000	650	1450	670	1485	695	1525	720	1565	740	1600
5000	670	1485	695	1525	720	1565	745	1610	770	1650
6000	700	1530	725	1575	750	1615	775	1660	800	1700
7000	725	1575	750	1615	780	1665	805	1710	830	1750
8000	755	1625	780	1655	810	1715	835	1760	865	1805

NOTE

- Short field technique as specified in Section 4.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry grass runway, increase distances by 45% of the "ground roll" figure.
- If landing with flaps up, increase the approach speed by 10 KIAS and allow for 40% longer distances.

Figure 5-12*