

Today is January 12, 2011 and is a great day for a VFR flight with your friends and family since the Northeast has fully recovered from December's *Snowmageddon*. You will be using your Uncle Craig's 235HP Cessna 182R which has standard fuel tanks and is based at East Hampton (KHTO). You arrive at the airport at 1015Z and plan to depart 30 minutes later. After you depart, you will fly to Newport State (KUUU) to pick up Brian, your roommate from college. You will be on the ground for 20 minutes before the two of you proceed to Nantucket Memorial Airport (KACK), where your sister Michele lives, to spend the day sight-seeing and sampling fresh lobster. You will plan to depart at 16:00 local and reverse your route to drop Brian off at KUUU before continuing home. Sunrise is at 07:19 local and sunset is at 2149Z. The information for the flight is as follows:

Aircraft Records:

Annual Inspection: Completed February 2, 2010
 100 Hour: Completed 1136.9
 ELT Inspection: Completed February 2, 2010
 Transponder Inspection: Completed December 31, 2008
 Pitot-Static Inspection: Completed December 31, 2008
 Current Tach Time: 1254.3
 Current Hobbs Time: 1439.6

Personal Records:

D.O.B.: August 25, 1986
 Private Pilot Certificate: December 12, 2008
 Medical Certificate: Class II November 24, 2009
 Complex Endorsement: October 29, 2010
 High Performance Endorsement: Completed ground training November 3, 2010

<i>Date</i>	<i>Time</i>	<i>ASEL</i>	<i>AMEL</i>	<i>Day/Night</i>	<i>Landings</i>	<i>Remarks</i>
10/6/2010	1.3	1.3		Night	4	Touch and go's
10/29/2010	1.7	1.7		Day	2	Complex Endorsement
11/14/2010	.6	.6		Night	2	Took sister home
12/23/2010	1.4	1.4		Day	2	BFR with John Williams 2854730CFI
1/9/2011	.7	.7		Day	2	Local Flight

Weight and Balance Information:

Basic Empty Weight and moment: 1808 lbs/62,000 lb-ins.

Fuel: Depart KHTO with 54 gallons.

You: 187 lbs. will position your seat at the aft limit. 10 lb personal bag in Baggage Area B

Brian: 179 lbs. will sit in the front at station 45. 10 lb personal bag in Baggage Area B

For baggage area calculations, use the baggage area center of gravity.

The fuel arm is 46.6 inches.

Performance Information:

- Use *Time, Fuel, & Distance to Climb* chart and local METAR to determine all climb information. Assume calm winds.
- Use *Cruise Performance* chart and winds aloft forecast for all cruise information. Interpolate on the chart for your appropriate cruise altitude and temperature. Interpolate for winds at cruise altitude using appropriate FD. Assume cruise temperature is what is given on the FD at 6,000'. Your power setting will be 2300 RPM at 20" manifold pressure.
- All descents will be at 867 fpm, cruise KTAS, and 50% of cruise fuel flow. Use local winds for descent calculations.
- For takeoff and landing distances, interpolate as necessary for pressure altitude, temperature, and winds using the local METAR.
- Assume no additional time for traffic pattern. All descents will be from cruise altitude to field elevation.

Route of Flight:

Leg 1: KHTO - KUUU 5,500' MSL . Use Maximum Rate of Climb chart. Use BDL winds a loft for cruise.

Leg 2: KUUU - KACK 5,500' MSL. Use Normal Climb chart. Use ACK winds a loft for cruise.

Leg 3: KACK - KUUU 4,500' MSL. Use Normal Climb chart. Use ACK winds a loft for cruise.

Leg 4: KUUU - KHTO 6,500' MSL. Use Maximum Rate of Climb chart. Use BDL winds a loft for cruise.

Weather and NOTAM Package:

***** Surface Observations *****

METAR KHTO 121153Z 34016KT 10SM CLR 04/M14 A3018 RMK AO2 SLP217 58005

METAR KGON 121154Z 29008KT 10SM FEW040 BKN250 01/M13 A3020 RMK AO2 SLP224 58003 \$

METAR KOQU 121152Z AUTO 22010KT 10SM CLR 00/M13 A3020 RMK AO2 SLP228 58003

METAR KUUU 121253Z 26012KT 10SM BKN070 02/M07 A3019 RMK AO1

METAR KFMH 121156Z 24005KT 10SM CLR M07/M12 A3019 RMK AO2 SLP224 58003

METAR KMVY 121153Z 33003KT 10SM CLR M04/M11 A3020 RMK AO2 SLP226 58006

METAR KACK 121153Z 28010G17KT 10SM OVC075 03/M09 A3021 RMK AO2 SLP229 50003

METAR KACK 122053Z 28010G14KT 10SM OVC080 03/M09 A3021 RMK AO2 SLP229 50003

METAR KUUU 122053Z 26012KT 7SM BKN070 02/M07 A3019 RMK AO1

METAR KHTO 122153Z 34016KT 8SM CLR 04/M14 A3018 RMK AO2 SLP217 58005

***** Terminal Forecasts *****

TAF KGON 121139Z 1212/1318 30005KT P6SM SCT250
FM121200 23008KT 5SM BR SCT040
TEMPO 1213/1215 P6SM NSW SCT010
FM121600 21010KT 3SM -SN BR OVC015
FM121800 21011KT 6SM BR OVC035
FM122300 23012KT P6SM OVC075
TAF AMD KPVD 121135Z 1213/1312 35009KT 4SM -PLSN SCT015 BKN045
FM121300 30011KT 5SM BR OVC059
TEMPO1218/1220 1 1/2SM +SN BLSN OVC008
FM122000 29013KT 6SM BR OVC050
FM130000 31014KT P6SM OVC090
FM130600 30011KT P6SM BKN020

TAF KACK 121139Z 1212/1312 33006KT P6SM FEW250
FM121200 27010KT 1/2SM SN VV002
FM111400 23010KT 6SM BR SCT050
FM121600 21013KT P6SM OVC060
FM122300 24017KT 3SM -SN OVC025
FM130400 26016G26KT P6SM OVC050

***** FA Synopsis and VFR Clouds/Weather *****

BOSC FA 120945
SYNOPSIS AND VFR CLDS/WX
SYNOPSIS VALID UNTIL 130400
CLDS/WX VALID UNTIL 122200...OTLK VALID 122200-130400
ME NH VT MA RI CT NY LO NJ PA OH LE WV MD DC DE VA AND CSTL WTRS

SYNOPSIS...10Z GR TLKS SFC LOW OVR ERN LS WITH CDFNT THRU NRN IL.
HIGH PRES NC WITH RDG THRU ERN NY. 04Z SFC LOW FAR NERN NY WITH
CDFNT THRU CNTRL PA ACRS SW VA TO NRN MS.

CSTL WTRS
ACK NEWD...SCT-BKN050 TOP 065. OTLK...MVFR CIG.
SE OF ACK...SCT040 TOP 080 BKN CI. OTLK...VFR.
SW OF ACK...
NEAR SHORE...SCT050 BKN100 TOP FL200. OTLK...VFR.
OFFSHORE...SCT CI. TIL 13Z OCNL VIS 3-5SM BR. 15Z SCT050 BKN120 TOP
FL250. 22Z OVC030. VIS 3-5SM -SN BR. OTLK...IFR CIG SN BR.

***** Pilot Reports *****

GON UA /OV GON/TM 1139/FL025/TP CRJ2/WV 32422KT/TB MOD 024-040/RM WIND AT 040 24032
PVD UUA /OV PVD/TM 1157/FL005/TP C210/TB MOD BLO 005/RM RWY 24
SEY UA /OV SEY045010/TM 1312/FL070/TP C414/SK BKN-OVC070/TB MOD

***** FD Winds Aloft Forecast *****

DATA BASED ON 121200Z
VALID 121800Z FOR USE 1400-2100Z. TEMPS NEG ABV 24000
FT 3000 6000 9000
JFK 2226 2634-12 2745-12
BDL 2126 2330-14 1742-16
BOS 2422 2424-12 2531-13
ACK 2521 2935-11 3141-11

***** NOTAMs *****

GON 01/111 GON RWY 15/33 CLSD

GON 07/322 GON NAV VOR/DME 061-104 UNUSBL BYD 18 BLW 5000

HTO 01/192 HTO RWY 16/34 1 IN PTCHY SN OVR PTCHY THN ICE WEF 1101010101

HTO 06/008 HTO SVC HIWAS OUTLET OTS

MVY 11/003 MVY RWY 6 REIL PCL OTS

ACK 01/018 ACK RWY 6 SFL OTS

ACK 01/066 ACK OBST TOWER 1510 (1205 AGL) 8.69 NW LGTS OTS (ASR 1237074) TIL 1101280033

EAST HAMPTON (HTO) 3 W UTC-5(-4DT) N40°57.57' W72°15.10'

NEW YORK
COPTER
L-33C, 34I
IAP

55 B S4 **FUEL** 100LL, JET A NOTAM FILE HTO
RWY 10-28: H4255X100 (ASPH-GRVD) S-60 MIRL 0.6% up W

RWY 10: REIL. PAPI (P2L)—GA 3.0° TCH 55'. Trees.

RWY 28: REIL. PAPI(P2R)—GA 3.0°. Pole.

RWY 16-34: H2060X75 (ASPH) S-8 0.6% up NW

RWY 16: Road.

RWY 34: Tree.

AIRPORT REMARKS: Attended 1300Z±-SS. Deer on and invof arpt. Rwy 16-34 cracked with vegetation growing through, standing water. Noise abatement procedures in effect ctc arpt management for details at 631-537-1130. ACTIVATE MIRL Rwy 10-28, PAPI Rwy 10, PAPI Rwy 28, REIL Rwy 10, REIL Rwy 28—CTAF. Pilot-controlled lgt unavbl dalgt hrs. Ldg fee for all transient acft to include touch and go ops.

WEATHER DATA SOURCES: HIWAS 113.6 HTO.

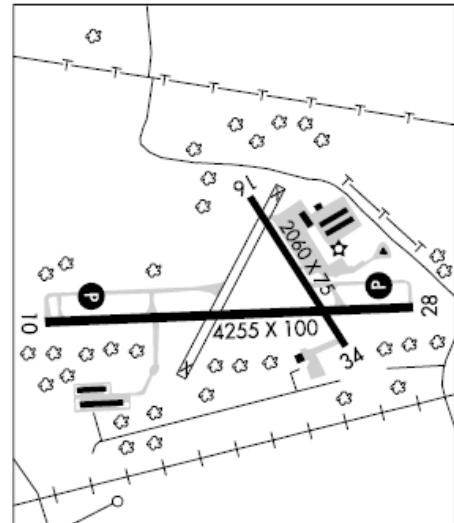
COMMUNICATIONS: CTAF/UNICOM 122.7

HAMPTON RCO 122.6 122.1R 113.6T (NEW YORK RADIO)

Ⓡ **NEW YORK APP/DEP CON** 125.975 **CLNC DEL** 118.95

RADIO AIDS TO NAVIGATION: NOTAM FILE ISP.

HAMPTON (H) VORTAC 113.6 HTO Chan 83 N40°55.14' W72°19.00' 064° 3.8 NM to fld. 22/13W. **HIWAS.**



BLOCK ISLAND STATE (BID) 1 W UTC-5(-4DT) N41°10.09' W71°34.67'

NEW YORK
L-33C
IAP

108 B NOTAM FILE BID

RWY 10-28: H2502X100 (ASPH) S-30 MIRL 0.3% up W

RWY 10: MALSF. PAPI(P4R)—GA 3.0° TCH 40'. Trees. **RWY 28:** REIL. PAPI(P4L)—GA 3.0° TCH 35'.

AIRPORT REMARKS: Attended May-Oct Sun-Thur 1300-0000Z±, Fri-Sat 1300-0130Z±, Nov-Apr 1300-2100Z±. Deer and birds on and invof arpt. Obstructions—lighted towers 1 NM north east of airport ½ NM apart. Rwy conditions may not be monitored or reported when arpt is unattended; call arpt manager 401-466-5511. ACTIVATE MIRL Rwy 10-28; MALSF Rwy 10 and REIL and PAPI Rwy 10 and Rwy 28—CTAF. Arpt parking and safety brief avbl on landing 122.85 MHz or call 401-466-5511. Ldg fee: commercial and non Rhode Island registered acft.

Overnight parking fee.

WEATHER DATA SOURCES: AWOS-3 134.775 (401) 466-5495.

COMMUNICATIONS: CTAF/UNICOM 123.0

Ⓡ **PROVIDENCE APP/DEP CON** 125.75 (1045-0500Z±) **CLNC DEL** 120.1

BOSTON CENTER APP/DEP CON 124.85 (0500-1045Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE BID.

SANDY POINT (L) VORW/DME 117.8 SEY Chan 125 N41°10.05' W71°34.56' at fld. 100/15W.

NEWPORT STATE (UUU) 2 NE UTC-5(-4DT) N41°31.95' W71°16.89'NEW YORK
L-33C
IAP172 B S4 FUEL 100LL NOTAM FILE UUU
RWY 04-22: H2999X75 (ASPH) S-30 MIRL 0.8% up NE

RWY 04: VASI(V4L)—GA 4.0°TCH 51'. Trees.

RWY 22: REIL. PAPI(P4L)—GA 4.0° TCH 30'. Trees.

RWY 16-34: H2623X75 (ASPH) S-30 MIRL 0.6% up S

RWY 16: VASI(V4L)—GA 3.75°TCH 40'. Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended Nov-Apr 1300-2130Z†, May-Oct 1300-2300Z†. Fuel avbl 24 hrs by credit card. Parachute Jumping. Deer and birds on and in/ov arpt. Rwy conditions may not be monitored or reported when arpt is unattended; call arpt manager 401-295-5020. PPR required for jet acft. Arpt located in noise sensitive area. Populated areas to the south. Noise abatement procedures in effect, ctc arpt manager 401-846-9400 for more information. ACTIVATE MIRL Rwy 04-22 and Rwy 16-34; REIL Rwy 22 Twys 'A' 'B' 'C' and ramp area—CTAF. Overngt parking fee. Ldg fee commercial and non Rhode Island registered acft.

WEATHER DATA SOURCES: ASOS 132.075 (401) 846-5910.

COMMUNICATIONS: CTAF/UNICOM 122.8

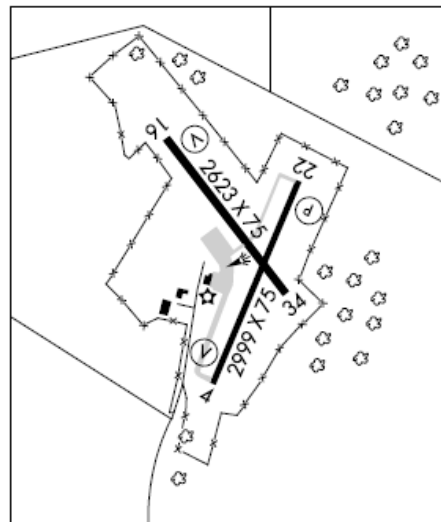
Ⓡ PROVIDENCE APP/DEP CON 128.7 (1045-0500Z†) CLNC DEL 127.25

BOSTON CENTER APP/DEP CON 124.85 (0500-1045Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE PVD.

PROVIDENCE (H) VORTACW 115.6 PVD Chan 103 N41°43.46' W71°25.78' 164° 13.3 NM to fld. 49/14W.
HIWAS.

ILS/DME 108.5 I-OTI CHAN 22 Rwy 22. LOC only. LOC unmonitored.

**VINEYARD HAVEN****MARTHAS VINEYARD** (MVY) 3 S UTC-5(-4DT) N41°23.58' W70°36.86'NEW YORK
H-10J, 12K, L-33D
IAP, AD67 B FUEL 100LL, JET A TPA-1067(1000) Class I, ARFF Index A NOTAM FILE MVY
RWY 06-24: H5504X100 (ASPH-GRVD) S-65, D-108, 2S-137, 2D-185 HIRL

RWY 06: REIL. PAPI(P4R)—GA 3.0°TCH 60'. Trees.

RWY 24: MALSR. Rgt tfc.

RWY 15-33: H3297X75 (ASPH) S-31, D-45, 2D-61 MIRL

0.3% up NW

RWY 15: Trees. RWY 33: REIL. Trees. Rgt tfc.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06: TORA-5504 TODA-5504 ASDA-5504 LDA-5504

RWY 15: TORA-3297 TODA-3297 ASDA-3297 LDA-3297

RWY 24: TORA-5504 TODA-5504 ASDA-5504 LDA-5504

RWY 33: TORA-3297 TODA-3297 ASDA-3297 LDA-3297

AIRPORT REMARKS: Attended 1100-0300Z†. Arpt has noise abatement procedures, ctc ops 508-693-7022. 24 hr PPR for unscheduled air carrier ops with more than 9 passenger seats call arpt manager 508-693-7022. Rwy 24 touchdown runway visual range avbl. Twy E clsd to acft with over 9 passengers. REIL Rwy 06 OTS indef. When twr clsd ACTIVATE HIRL Rwy 06-24, MALSR Rwy 24, MIRL Rwy 15-33, REIL Rwy 33—CTAF. ACTIVATE REIL Rwy 06 (24 hours)—CTAF. Parking fee all acft. Ldg fee all acft over 6000 lbs.

WEATHER DATA SOURCES: ASOS (508) 696-6988.

COMMUNICATIONS: CTAF 121.4 ATIS 126.25 508-693-7685.

UNICOM 122.95

RCO 122.1R 114.5T (BRIDGEPORT RADIO)

Ⓡ CAPE APP/DEP CON 133.75 119.7 (3000' to 14,000') (1100-0400Z†) May 15-Sept 30 (1100-0300Z†) Oct 1-May 14.

CLNC DEL 119.7 (when twr clsd)

BOSTON CENTER APP/DEP CON 128.75 (0400-1100Z†) May 15-Sept 30 (0300-1100Z†) Oct 1-May 14.

VINEYARD TOWER 121.4 (May 15-Oct 31 1100-0300Z†, Nov 1-May 14 1200-2200Z†) GND CON 124.35

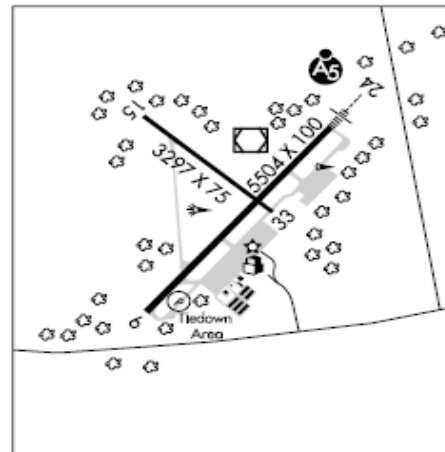
CLNC DEL 124.35

AIRSPACE: CLASS D svc May 15-Oct 31 1100-0300Z†, Nov 1-May 14 1200-2200Z† other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE MVY.

(L) VOR/DME 114.5 MVY Chan 92 N41°23.77' W70°36.76' at fld. 60/15W.

ILS/DME 108.7 I-MVY Chan 24 Rwy 24. Class 1E. ILS unmonitored.



NANTUCKET MEM (ACK) 3 SE UTC-5(-4DT) N41°15.19' W70°03.62'

NEW YORK

47 B FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE ACK

H-10J, 12K, L-33D

RWY 06-24: H6303X150 (ASPH) S-75, D-170, 2S-175, 2D-280 HIRL CL 0.3% up NE.

IAP, AD

RWY 06: MALSF. VASI(V4L)—GA 3.0°. Thld dspcd 537'.

RWY 24: SSALR. TDZL. PAPI(P4L)—GA 3.0° TCH 48'.

RWY 15-33: H4000X100 (ASPH) S-60, D-85, 2S-108, 2D-155
MIRL

RWY 15: REIL. Building.

RWY 33: REIL. VASI(V4R)—GA 3.0° TCH 43'.

RWY 12-30: H2696X50 (ASPH) S-12.5

LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 06	15-33	4316
RWY 33	06-24	3150

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06:	TORA-6303	TODA-6303	ASDA-6303	LDA-5752
RWY 12:	TORA-2696	TODA-2696	ASDA-2696	LDA-2696
RWY 15:	TORA-4000	TODA-4000	ASDA-4000	LDA-4000
RWY 24:	TORA-6303	TODA-6303	ASDA-6303	LDA-6303
RWY 30:	TORA-2696	TODA-2696	ASDA-2696	LDA-2696
RWY 33:	TORA-4000	TODA-4000	ASDA-4000	LDA-4000

AIRPORT REMARKS: Attended continuously. Be aware of hi-speed military

jet and heavy helicopter t/c vicinity of Cape Cod CGAS. Deer and birds on and invof arpt. Rwy 12-30 VFR/Day use only aircraft under 12,500 lbs. Arpt has noise abatement procedures ctc Noise Officer 508-325-5300.

PPR 2 hours for unscheduled air carrier ops with more than 9 passenger seat, call arpt manager

508-325-5300. Rwy 06 touchdown and rollout runway visual range avbl. Rwy 24 midpoint and rollout runway visual range avbl. When twr clsd ACTIVATE MALSF Rwy 06; SSALR Rwy 24; HIRL Rwy 06-24; MIRL Rwy 15-33;

PAPI Rwy 24 and twy lgts—CTAF. VASI Rwy 06 and Rwy 33 opr 24 hrs. Rwy 24 SSALR unmonitored when twr clsd. Twy F between A and B clsd indef. Twy F prohibited to air carrier acft with more than 9 passenger seats when twr clsd. Fee for non-commercial acft parking over 2 hrs or over 6000 lbs. NOTE: See Special

Notices—VFR Noise Abatement Procedures.

WEATHER DATA SOURCES: ASOS (508) 325-6082. LAWRS.

COMMUNICATIONS: CTAF 118.3 ATIS 127.5 (508-228-5375) UNICOM 122.95

RCO 122.1R 116.2T (BRIDGEPORT RADIO)

Ⓡ CAPE APP/DEP CON 126.1 (1100-0400Z‡) May 15-Sept 30, (1100-0300Z‡) Oct 1-May 14.

BOSTON CENTER APP/DEP CON 128.75 (0400-1100Z‡) May 15-Sept 30, (0300-1100Z‡) Oct 1-May 14.

TOWER 118.3 May 15-Sep 30 (1100-0300Z‡), Oct 1-May 14 (1100-0200Z‡).

GND CON 121.7 CLNC DEL 119.375

AIRSPACE: CLASS D svc May 15-Sep 30 1100-0300Z‡, Oct 1-May 14 1100-0200Z‡ other times CLASS G.

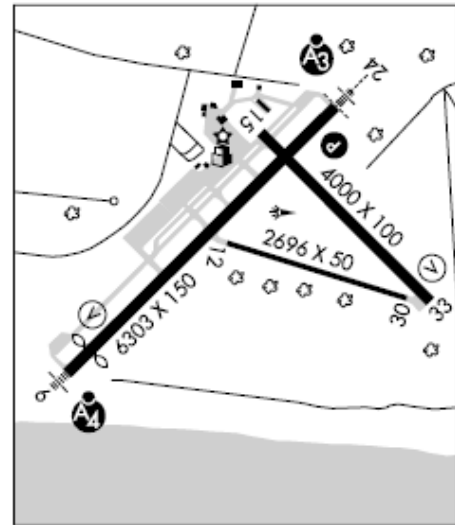
RADIO AIDS TO NAVIGATION: NOTAM FILE ACK.

(H) VOR/DME 116.2 ACK Chan 109 N41°16.91' W70°01.60' 236°2.3 NM to fld. 99/15W.

WAIVS NDB (LOM) 248 AC N41°18.68' W69°59.21' 240° 4.8 NM to fld.

ILS/DME 109.1 I-ACK Chan 28 Rwy 24. Class IE. LOM WAIVS NDB. ILS unmonitored when twr clsd.

ILS/DME 109.1 I-RNE Chan 28 Rwy 06. Class IE.



NORTH KINGSTOWN

QUONSET STATE (OQU)(KOQU) CIV/MIL/P/ARNG/ANG 3 NE UTC-5(-4DT)
 N41°35.83' W71°24.73'

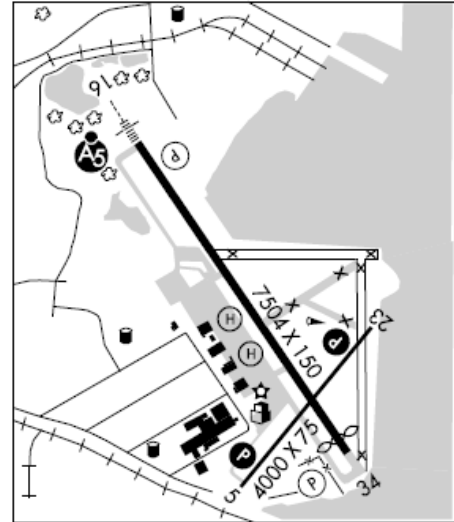
NEW YORK
 H-101, 110, 12K, L-33C
 IAP, DIAP, AD

18 B FUEL 100LL, JET A LRA NOTAM FILE OQU
RWY 16-34: H7504X150 (ASPH-GRVD) D-175, 2S-175 HIRL
RWY 16: MALSR. PAPI(P4L)—GA 3.0° TCH 58'. Trees.
RWY 34: PAPI(P4L)—GA 3.0° TCH 58'. Thld dspcd 403'.
RWY 05-23: H4000X75 (ASPH) S-12.5 MIRL
RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 40'. Pole.
RWY 23: REIL. PAPI(P4R)—GA 3.0° TCH 40'.

RUNWAY DECLARED DISTANCE INFORMATION
RWY 16: TORA-7100 TODA-7100 ASDA-7100 LDA-7100
RWY 34: TORA-7500 TODA-7500 ASDA-7500 LDA-7100

MILITARY SERVICE: FUEL J8 (Military) A+, Landmark Aviation, opr
 1100-0200Z±. PPR mandatory during non-duty hr. Ctc
 C401-295-5020 extension 3008.) (NC-100LL, A)

AIRPORT REMARKS: Attended Mon-Fri 1200-0300Z±, Sat-Sun
 1230-2230Z±. Noise abatement procedures for heavy acft; ctc
 arpt manager 401-295-5020. Heavy acft 255,000 gross weight.
 Twy R and Twy E clsd indef. Lgtd cranes 125' high at pier 1000'
 SE of Rwy 05. Deer and birds on and invof arpt. 180° turns for
 acft over 12,500 pounds gross weight prohibited on Rwy 16-34.
 Rwy 16 8000' avbl for military acft. Rwy conditions may not be
 monitored or reported when arpt is unattended; call arpt manager 401-295-5020. ACTIVATE MIRL Rwy 05-23,
 HIRL Rwy 16-34, MALSR Rwy 16, REIL Rwy 05 and Rwy 23, and PAPI Rwy 05 and Rwy 23, and twy lgts—CTAF.
 Ldg fee commercial and non Rhode Island registered acft/overnight parking fee. Flight Notification Service
 (ADCUS) available.



MILITARY REMARKS: RSTD 180° turns for acft over 12,500 lbs gross weight prohibited on Rwy 16-34. **MISC** Rwy 16
 8000' avbl for military acft only. **TFC PAT** Rotary/Wing 718 (700), Fixed/Wing 1018(1000). **ANG** PPR. Opr Tue-Fri
 1200-2230Z±, except holidays. Tran acft inbound to ANG ctc RHODY OPS 15 min out. ANG OPS DSN
 476-3405/3422, C401-886-1405/1422. Req all acft carrying Distinguished Visitors to coordinate with RHODY
 OPS for arrangements outside normal duty hr. Bird Aircraft Strike Hazard program in effect. 1 Aug-31 Oct is
 designated Phase II for Bird Watch Condition. Increased hazard from Canadian geese flying east to west over
 rwy. Inbound acft ctc twr for latest Bird Watch Condition. No communications security/weapons storage avbl.
 Acft req customs/agriculture ctc RHODY OPS 7 days prior arrival. No hot cargo parking avbl. **ARNG** Opr Tue-Fri
 1200-2230Z±, except holidays. Ltd tran maintenance, fuel and parking avbl. PPR fuel DSN 247-4539,
 C401-275-4539. Tran military acft ctc ARNG OPS 38.95 253.4 if landing ARNG ramp.

COMMUNICATIONS: CTAF 126.35 ATIS 118.6 (Tue-Fri 1300-0400Z±, Sat 1400-2200Z± Sun 1500-2300Z±.)
 UNICOM 122.95

RCO 122.3 (BRIDGEPORT RADIO)

Ⓡ PROVIDENCE APP/DEP CON 135.4 380.25 244.875 (1045-0500Z±)

BOSTON CENTER APP/DEP CON 124.85 307.9 (0500-1045Z±)

QUONSET TOWER 126.35 252.9 Tue-Fri 1300-0400Z±; Sat 1400-2200Z±; Sun 1500-2300Z±; clsd Mon and
 holidays GND CON 134.5 275.8 ARNG OPS 36.8 233.15

ANG OPS 383.3 (Call RHODY OPS)

AIRSPACE: CLASS D svc Tue-Fri 1300-0400Z±; Sat 1400-2200Z±; Sun 1500-2300Z±; except Mon and holidays other
 times CLASS G.

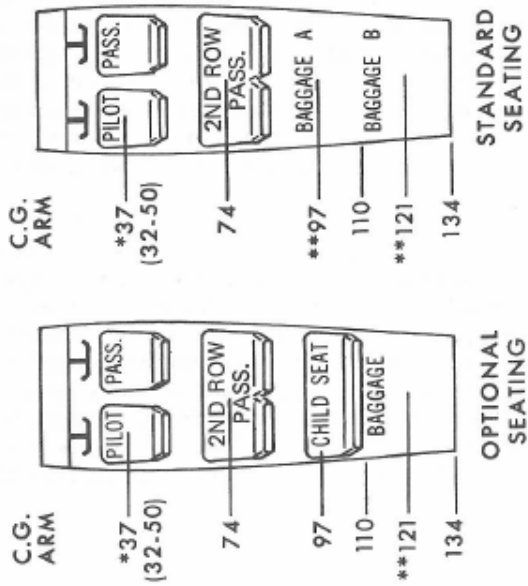
RADIO AIDS TO NAVIGATION: NOTAM FILE PVD.

PROVIDENCE (H) VORTACW 115.6 PVD Chan 103 N41°43.46' W71°25.78' 188° 7.7 NM to fld. 49/14W.
 HIWAS.

ILS/DME 109.5 I-OQU Chan 32 Rwy 16. Class IA. Unmonitored when twr clsd. Preventive
 maintenance scheduled Thu 1400-1600Z±.

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL R182



**LOADING
ARRANGEMENTS**

* Pilot or passenger center of gravity on adjustable seats positioned for average occupant. Numbers in parenthesis indicate forward and aft limits of occupant center of gravity range.

** Baggage area center of gravity.

NOTE: The aft baggage wall (approximate station 134) can be used as a convenient interior reference point for determining the location of baggage area fuselage stations.

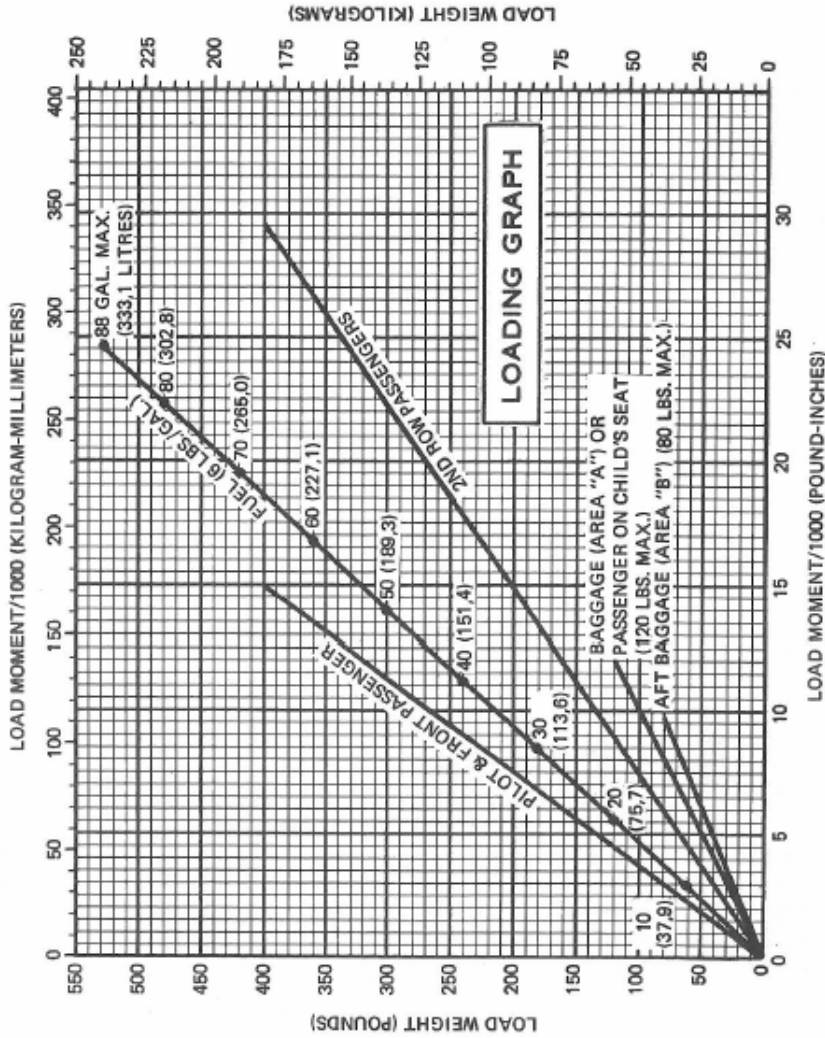
Figure 6-3. Loading Arrangements

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL R182

SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins. /1000)	Weight (lbs.)	Moment (lb.-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	1808	62.0		
2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (88 Gal. Maximum) Reduced Fuel (65 Gal.)	528	24.6		
3. Pilot and Front Passenger (Sta. 32 to 50)	340	12.6		
4. Second Row Passengers	340	25.2		
5. Baggage (Area "A") or Passenger on Child's Seat (Station 82 to 110) 120 Lbs. Maximum	96	9.3		
6. Baggage - Aft (Area "B") (Station 110 to 134) 80 Lbs. Maximum				
7. RAMP WEIGHT AND MOMENT	3112	133.7		
8. Fuel allowance for engine start, taxi and runup	-12	-.6		
9. TAKEOFF WEIGHT AND MOMENT (Subtract step 8 from step 7)	3100	133.1		
10. Locate this point (3100 at 133.1) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.				

Figure 6-5. Sample Loading Problem



NOTES: Line representing adjustable seats shows pilot and front seat passenger center of gravity on adjustable seats positioned for an average occupant. Refer to the Loading Arrangements diagram for forward and aft limits of occupant C.G. range.

Figure 6-6. Loading Graph

SECTION 6
WEIGHT & BALANCE/
EQUIPMENT LIST

CESSNA
MODEL R182

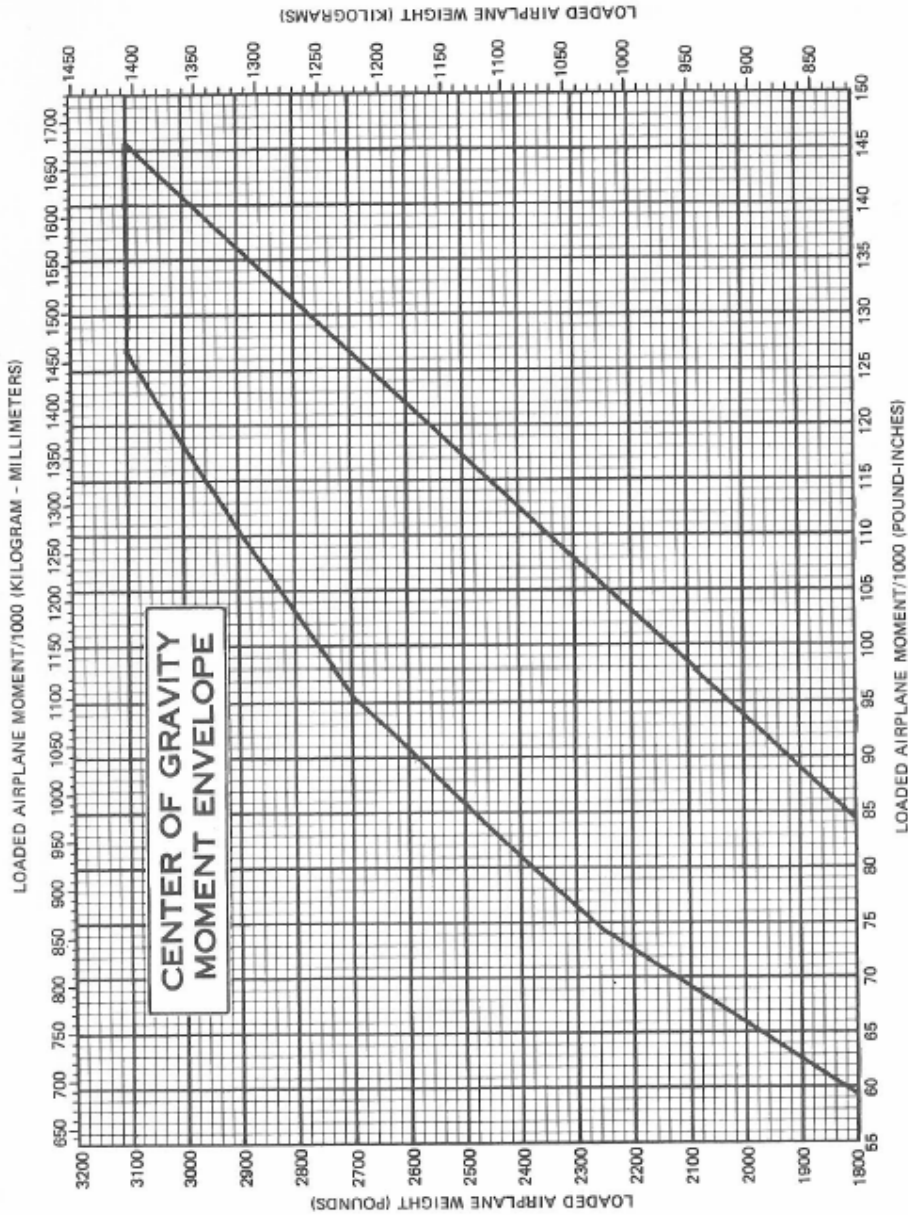


Figure 6-7. Center of Gravity Moment Envelope

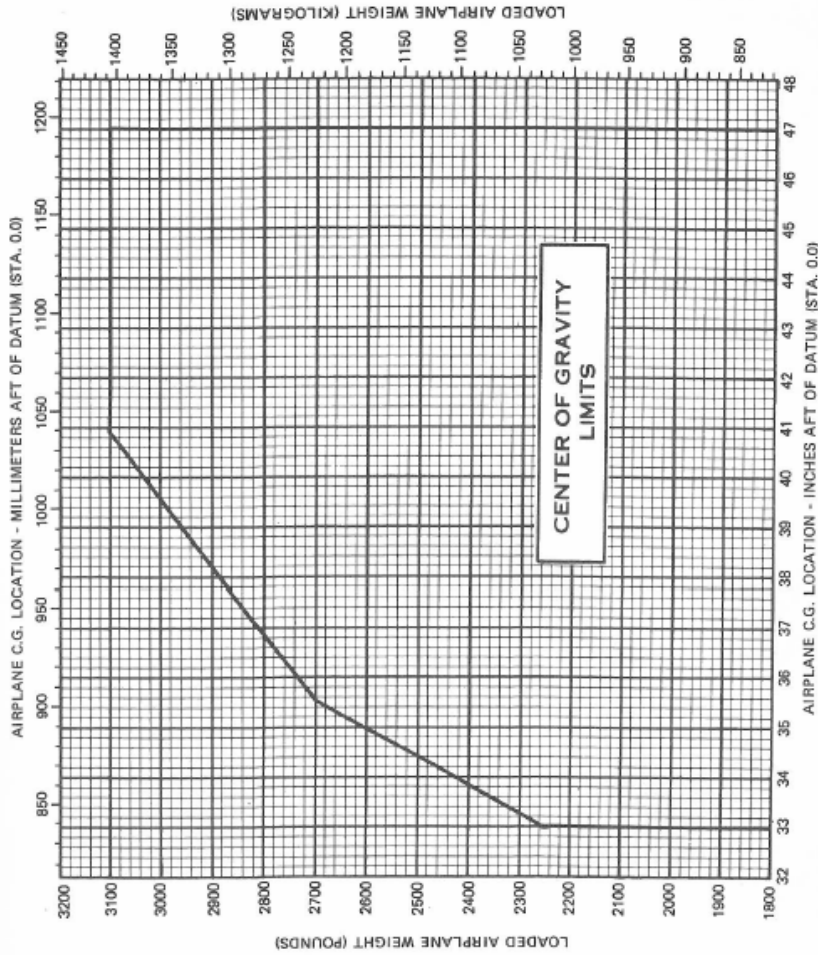


Figure 6-8. Center of Gravity Limits

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TAKEOFF DISTANCE
MAXIMUM WEIGHT 3100 LBS

SHORT FIELD

CONDITIONS:
Flaps 20°
2400 RPM and Full Throttle Prior to Brake Release
Cowl Flaps Open
Paved, Level, Dry Runway
Zero Wind

NOTES:

1. Short field technique as specified in Section 4.
2. Prior to takeoff from fields above 3000 feet elevation, the mixture should be leaned to give maximum power in a full throttle, static runup.
3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
4. Where distance value has been deleted, climb performance after lift-off is less than 150 fpm at takeoff speed.
5. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

WEIGHT LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	0°C			10°C			20°C			30°C			40°C		
	LIFT OFF 50 FT	AT 50 FT		GRND ROLL 50 FT OBS	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	
3100	47	55	S.L.	735	1410	790	1515	850	1625	910	1745	975	1870	1065	2060	1165	2275	
			1000	800	860	1660	925	1785	995	1915	1085	2110	1165	2275	1275	2525	1395	2825
			2000	875	940	1820	1010	1960	1085	2110	1190	2340	1300	2605	1430	2925	1535	3185
			3000	955	1030	2010	1105	2165	1190	2405	1300	2605	1430	2925	1535	3185	1685	3635
			4000	1045	1125	2225	1210	2405	1300	2605	1430	2925	1535	3185	1685	3635	---	---
			5000	1145	1235	2475	1330	2690	1460	3030	1570	3310	1730	3805	---	---	---	---
			6000	1255	2550	1355	2775	1460	3030	1570	3310	1730	3805	---	---	---	---	---
			7000	1390	2870	1490	3140	1605	3450	1730	3805	---	---	---	---	---	---	---
			8000	1520	3260	1640	3600	1770	3990	---	---	---	---	---	---	---	---	---

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

**TAKEOFF DISTANCE
2800 LBS AND 2500 LBS**

SHORT FIELD

REFER TO SHEET 1 FOR APPROPRIATE CONDITIONS AND NOTES.

WEIGHT LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	0°C		10°C		20°C		30°C		40°C	
	LIFT OFF	AT 50 FT		GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS
2800	45	53	S.L.	580	1115	625	1195	670	1275	720	1365	770	1460
			1000	635	1215	680	1300	730	1395	785	1490	840	1595
	50	53	2000	690	1325	745	1420	800	1520	855	1630	915	1750
			3000	755	1445	810	1555	870	1670	935	1790	1000	1920
			4000	820	1585	885	1705	950	1835	1020	1975	1095	2125
			5000	900	1745	970	1880	1040	2025	1120	2185	1200	2355
			6000	985	1925	1060	2080	1140	2250	1225	2430	1315	2630
			7000	1080	2140	1165	2315	1255	2510	1350	2725	1450	2960
			8000	1185	2385	1280	2595	1380	2825	1485	3080	1595	3365
			S.L.	450	870	485	925	520	990	555	1055	595	1125
1000	490	940	525	1005	565	1075	605	1145	645	1220			
2500	42	50	2000	530	1020	570	1090	615	1165	660	1245	705	1330
			3000	580	1110	625	1190	670	1270	720	1360	770	1455
			4000	630	1210	680	1300	730	1390	785	1490	840	1590
			5000	690	1325	745	1420	800	1525	855	1635	915	1750
			6000	755	1450	810	1560	875	1675	935	1800	1005	1930
			7000	825	1595	890	1715	955	1850	1025	1990	1100	2140
			8000	905	1760	975	1900	1050	2050	1130	2210	1210	2385
			S.L.	450	870	485	925	520	990	555	1055	595	1125

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

TIME, FUEL, AND DISTANCE TO CLIMB

MAXIMUM RATE OF CLIMB

CONDITIONS:

Flaps Up
Gear Up
2400 RPM
Full Throttle
Mixture Full Rich
Cowl Flaps Open
Standard Temperature

NOTES:

1. Add 2.0 gallons of fuel for engine start, taxi and takeoff allowance.
2. Mixture may be leaned above 3000 feet for increased power.
3. Increase time, fuel and distance by 10% for each 10°C above standard temperature.
4. Distances shown are based on zero wind.

WEIGHT LBS	PRESSURE ALTITUDE FT	TEMP °C	CLIMB SPEED KIAS	RATE OF CLIMB FPM	FROM SEA LEVEL		
					TIME MIN	FUEL USED GALLONS	DISTANCE NM
3100	S.L.	15	88	1140	0	0	0
	1000	13	86	1065	1	0.4	1
	2000	11	85	995	2	0.8	3
	3000	9	84	920	3	1.2	4
	4000	7	82	850	4	1.6	6
	5000	5	81	775	5	2.1	8
	6000	3	80	705	7	2.6	10
	7000	1	78	630	8	3.1	12
	8000	-1	77	560	10	3.7	15
	9000	-3	76	485	12	4.4	18
	10,000	-5	74	415	14	5.1	21
	11,000	-7	73	340	17	6.0	25
	12,000	-9	72	265	20	7.1	30

Figure 5-6. Time, Fuel, and Distance to Climb (Sheet 1 of 2)

TIME, FUEL, AND DISTANCE TO CLIMB

NORMAL CLIMB - 95 KIAS

CONDITIONS:

Flaps Up
Gear Up
2400 RPM
23 Inches Hg or Full Throttle
Mixture Full Rich
Cowl Flaps Open
Standard Temperature

NOTES:

1. Add 2.0 gallons of fuel for engine start, taxi and takeoff allowance.
2. Mixture may be leaned above 3000 feet for increased power.
3. Increase time, fuel and distance by 10% for each 10°C above standard temperature.
4. Distances shown are based on zero wind.

WEIGHT LBS	PRESSURE ALTITUDE FT	TEMP °C	RATE OF CLIMB FPM	FROM SEA LEVEL		
				TIME MIN	FUEL USED GALLONS	DISTANCE NM
3100	S.L.	15	680	0	0	0
	1000	13	680	1	0.5	2
	2000	11	680	3	1.0	5
	3000	9	680	4	1.5	7
	4000	7	680	6	2.0	10
	5000	5	680	7	2.6	12
	6000	3	640	9	3.1	15
	7000	1	565	11	3.7	18
	8000	-1	485	12	4.4	21
	9000	-3	410	15	5.2	25
	10,000	-5	330	18	6.1	30
	11,000	-7	255	21	7.3	37
12,000	-9	175	26	8.8	46	

Figure 5-6. Time, Fuel, and Distance to Climb (Sheet 2 of 2)

CRUISE PERFORMANCE
PRESSURE ALTITUDE 2000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps Closed

NOTE
For best fuel economy, operate at the leanest mixture that results in smooth engine operation or at peak EGT if an EGT indicator is installed.

		20°C BELOW STANDARD TEMP -9°C			STANDARD TEMPERATURE 11°C			20°C ABOVE STANDARD TEMP 31°C		
RPM	MP	% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2400	23	---	---	---	76	148	13.6	73	149	13.2
	22	74	143	13.3	71	145	12.8	69	146	12.4
	21	69	140	12.4	67	141	12.0	64	142	11.6
	20	64	136	11.6	62	137	11.3	60	138	10.9
2300	23	75	145	13.5	72	146	13.1	70	147	12.6
	22	71	141	12.7	68	142	12.3	66	143	11.9
	21	66	137	11.9	64	138	11.5	62	139	11.2
	20	61	134	11.2	59	135	10.8	57	135	10.5
2200	23	72	142	12.9	69	143	12.5	67	144	12.1
	22	67	139	12.1	65	140	11.7	63	141	11.4
	21	63	135	11.4	61	136	11.0	59	137	10.7
	20	59	131	10.7	57	132	10.3	55	133	10.0
2100	23	68	139	12.2	66	140	11.8	63	141	11.5
	22	64	136	11.5	62	137	11.2	60	137	10.8
	21	60	132	10.9	58	133	10.5	56	134	10.2
	20	55	128	10.1	54	129	9.8	52	129	9.5
	19	51	124	9.4	50	124	9.1	48	125	8.9
	18	47	119	8.7	45	119	8.5	44	120	8.2

Figure 5-7. Cruise Performance (Sheet 1 of 6)

CRUISE PERFORMANCE
PRESSURE ALTITUDE 4000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps Closed

NOTE
For best fuel economy, operate at the leanest mixture that results in smooth engine operation or at peak EGT if an EGT indicator is installed.

		20°C BELOW STANDARD TEMP -13°C			STANDARD TEMPERATURE 7°C			20°C ABOVE STANDARD TEMP 27°C		
RPM	MP	% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2400	23	---	---	---	78	153	14.0	75	154	13.0
	22	76	148	13.7	73	149	13.2	71	150	12.8
	21	71	144	12.8	69	145	12.4	66	146	12.0
	20	66	140	12.0	64	141	11.6	62	142	11.2
2300	23	77	149	14.0	75	150	13.5	72	151	13.0
	22	73	145	13.1	70	147	12.7	68	148	12.2
	21	68	142	12.3	66	143	11.9	64	144	11.5
	20	64	138	11.5	61	139	11.1	59	140	10.8
2200	23	74	146	13.3	71	148	12.9	69	149	12.4
	22	70	143	12.5	67	144	12.1	65	145	11.7
	21	65	139	11.8	63	140	11.4	61	141	11.0
	20	61	135	11.0	59	136	10.7	57	137	10.3
2100	23	70	143	12.7	68	145	12.2	65	146	11.8
	22	66	140	11.9	64	141	11.5	62	142	11.2
	21	62	136	11.2	60	137	10.9	58	138	10.5
	20	58	132	10.5	55	133	10.1	54	134	9.8
	19	53	128	9.8	51	129	9.5	50	129	9.2
	18	49	123	9.1	47	124	8.8	46	124	8.5

Figure 5-7. Cruise Performance (Sheet 2 of 6)

CRUISE PERFORMANCE
PRESSURE ALTITUDE 6000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps Closed

NOTE
For best fuel economy, operate at the leanest mixture that results in smooth engine operation or at peak EGT if an EGT indicator is installed.

RPM	MP	20°C BELOW STANDARD TEMP -17°C			STANDARD TEMPERATURE 3°C			20°C ABOVE STANDARD TEMP 23°C		
		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2400	22	---	---	---	75	154	13.6	73	155	13.1
	21	73	148	13.2	71	150	12.7	68	151	12.3
	20	69	145	12.3	66	146	11.9	64	147	11.5
	19	64	140	11.5	61	141	11.1	59	142	10.8
2300	23	---	---	---	77	155	13.9	74	156	13.4
	22	75	150	13.5	72	151	13.0	70	152	12.6
	21	70	146	12.7	68	147	12.2	66	148	11.8
	20	66	142	11.9	63	143	11.5	61	144	11.1
2200	23	76	151	13.7	74	152	13.3	71	153	12.8
	22	72	147	12.9	69	148	12.5	67	150	12.1
	21	67	144	12.1	65	145	11.7	63	146	11.4
	20	63	140	11.4	61	141	11.0	59	141	10.7
2100	23	72	148	13.1	70	149	12.6	68	150	12.2
	22	68	144	12.3	66	145	11.9	64	146	11.5
	21	64	141	11.6	62	142	11.2	60	142	10.8
	20	60	137	10.9	57	137	10.5	56	138	10.2
	19	55	132	10.1	53	133	9.8	52	133	9.5
	18	51	128	9.4	49	128	9.1	48	128	8.8

Figure 5-7. Cruise Performance (Sheet 3 of 6)

CRUISE PERFORMANCE

PRESSURE ALTITUDE 8000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps Closed

NOTE
For best fuel economy, operate at the leanest mixture that results in smooth engine operation or at peak EGT if an EGT indicator is installed.

RPM	MP	20°C BELOW STANDARD TEMP -21°C			STANDARD TEMPERATURE -1°C			20°C ABOVE STANDARD TEMP 19°C		
		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2400	21	76	153	13.6	73	154	13.1	70	155	12.7
	20	71	149	12.7	68	150	12.3	66	151	11.9
	19	66	145	11.9	63	146	11.5	61	147	11.1
	18	61	140	11.1	59	141	10.7	57	142	10.3
2300	21	73	151	13.1	70	152	12.6	68	153	12.2
	20	68	147	12.2	65	148	11.8	63	149	11.4
	19	63	142	11.4	61	143	11.1	59	144	10.7
	18	58	138	10.6	56	138	10.3	54	139	9.9
2200	21	70	148	12.5	67	149	12.1	65	150	11.7
	20	65	144	11.7	63	145	11.3	60	146	11.0
	19	60	140	11.0	58	141	10.6	56	141	10.3
	18	56	135	10.2	54	136	9.9	52	136	9.5
2100	21	66	145	11.9	64	146	11.5	61	147	11.2
	20	62	141	11.2	59	142	10.8	57	142	10.5
	19	57	137	10.5	55	137	10.1	53	138	9.8
	18	53	132	9.7	51	132	9.4	49	133	9.1
	17	49	127	9.0	47	127	8.7	45	127	8.4

Figure 5-7. Cruise Performance (Sheet 4 of 6)

ENDURANCE PROFILE

45 MINUTES RESERVE
88 GALLONS USABLE FUEL

CONDITIONS:
3100 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 a normal climb as shown in figure 5-6.
2. Reserve fuel is based on 45 minutes at 45% BHP and is 6.3 gallons.

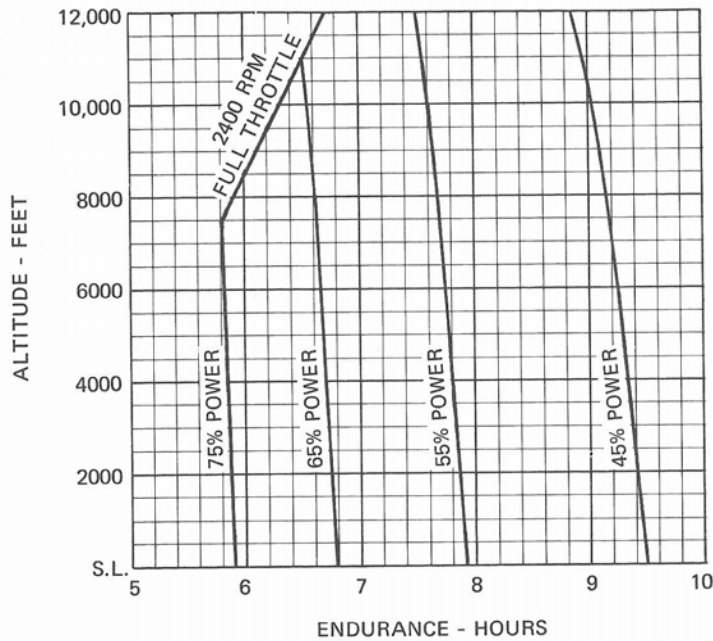


Figure 5-9. Endurance Profile

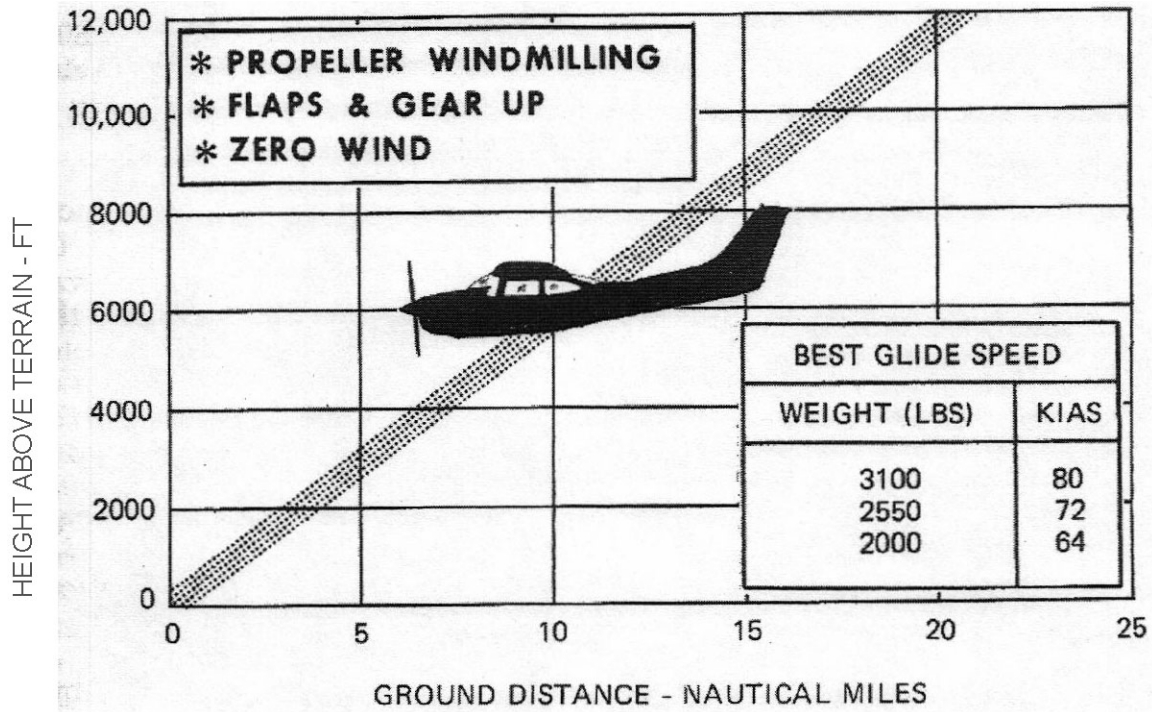


Figure 3-1. Maximum Glide

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 40% of the "ground roll" figure.

WEIGHT LBS	SPEED AT 50 FT KIAS	PRESS ALT FT	0°C		10°C		20°C		30°C		40°C	
			GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS	GRND ROLL	TOTAL TO CLEAR 50 FT OBS
3100	63	S.L.	570	1270	590	1305	610	1335	630	1370	650	1400
		1000	590	1305	610	1335	635	1375	655	1410	675	1440
		2000	610	1335	635	1375	655	1410	680	1450	700	1480
		3000	635	1375	660	1415	680	1450	705	1490	730	1530
		4000	660	1415	685	1455	705	1490	730	1530	755	1570
		5000	685	1455	710	1495	735	1535	760	1580	785	1620
		6000	710	1500	735	1540	760	1580	790	1625	815	1665
		7000	735	1540	765	1585	790	1630	820	1675	845	1715
8000	765	1585	795	1635	820	1675	850	1725	880	1770		

Figure 5-10. Landing Distance