

Today is March 1, 2005 and you are planning a flight to see some friends for the day and enjoy the fresh snow that fell overnight in the northeast. You get a thorough weather briefing from flight service, and they tell you that most of the snow has stopped across your route of flight, but there are still some lingering snow showers and low ceilings across northern and eastern parts of New England. Satisfied that the weather will remain nice for your route of flight, you head out to the airport to preflight your 1973 Bellanca 17-31ATC Turbo Viking 300A powered by a turbo-normalized 300hp Lycoming IO-540. (You have flaps, constant speed propeller, and retractable landing gear)

Aircraft Records

Annual Inspection: 04/21/2004
 ELT Inspection: 04/21/2004
 Transponder Insp: 02/17/2003
 Pitot-Static Insp: 02/17/2003

Licensed Empty Weight: 2,318.7 pounds with a moment of 37,331.07 in-lbs

Personal Records

Private Pilot Certificate: 05/22/1996
 High Performance endorsement: 01/21/1997 in your Turbo Viking 300A
 Wings Phase IV: 05/31/2004
 Class III Medical: 02/18/2005 (you weigh 193 lbs.)

<i>Date</i>	<i>Hours</i>	<i>ASEL</i>	<i>AMEL</i>	<i>Day/Night</i>	<i>Landings</i>	<i>Remarks</i>
02/02/1997	1.2	1.2		Day	3	Sightseeing
09/02/2004	3.2	3.2		Day	1	Tour of Long Island Sound
11/20/2004	1.0	1.0		Night	1	Sightseeing
12/01/2004	2.0	2.0		Night	2	Dinner on Martha's Vineyard
02/03/2005	0.5	0.5		Day	1	Flight after oil change
02/18/2005	1.0	1.0		Night	2	Picked up skis for Jane

General Notes

- *For climb, use rate of climb based on cruise altitude for the entire climb
- *Use 112 mph true airspeed for all climbs
- *Use weight **CLOSEST** to your ramp weight on climb chart to figure rate of climb
- *For descent, use your cruise true airspeed, 800 fpm, and 7.6 gph
- *Sunset is at 5:13 PM

Leg #1

Skylark Airpark (7B6) direct to Hopedale Industrial (1B6)

Altitude: 5,500 MSL

Cruise Power: 2,300 rpm at 24" manifold pressure

Wind: Use BDL 3,000 winds for climb, interpolate BDL winds for cruise

Use BOS 3,000 winds for descent

Burn fuel from the wing tanks only

Leg #2

Hopedale Industrial direct to Manchester, NH (MHT)

Altitude: 5,500 MSL or 6,500 MSL

Cruise Power: 2,200 rpm at 21" manifold pressure

Wind: Use BOS 3,000 winds for climb and descent, interpolate BOS winds for cruise

Burn fuel from the wing tanks only

Leg #3

Manchester, NH direct to Albany, NY (ALB)

Altitude: 14,500 MSL

Cruise Power: 2,400 rpm at 27" manifold pressure

Wind: Use BOS 9,000 winds for climb

Use ALB 9,000 winds for descent, interpolate ALB winds for cruise

Burn fuel from the auxiliary tank only

Leg #4

Albany, NY to Skylark Airpark via V130 to BDL, then direct to Skylark

Altitude: 9,500 MSL

Cruise Power: 2,300 rpm at 23" manifold pressure

Wind: Use ALB 3,000 winds for climb

Use BDL 3,000 winds for descent, interpolate BDL winds for cruise

Burn fuel from the wing tanks only

***** FA Hazards and Flight Precautions *****
current report not available

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

BOSC FA 011445 AMD
SYNOPSIS AND VFR CLDS/WX
SYNOPSIS VALID UNTIL 020400
CLDS/WX VALID UNTIL 012200...OTLK VALID 012200-020400
ME NH VT MA RI CT NY LO NJ PA OH LE WV MD DC DE VA AND CSTL WTRS

.
SEE AIRMET SIERRA FOR IFR CONDS AND MTN OBSCN.
TS IMPLY SEV OR GTR TURB SEV ICE LLWS AND IFR CONDS.
NON MSL HGTS DENOTED BY AGL OR CIG.

.
SYNOPSIS...11Z CDFNT FROM ERN ME TO E LN BGR-120S BOS. HI PRES RDG FM OH
TO SRN NY. LT SHSN ACRS MID/ERN ME MA. BY 05Z CDFNT FM 50E BGR TO 75E BOS. HI
OVR ERN PA NY. PCPN CTNG OVR ERN ME AND CSTL WTRS.

.
ME ...UPDT
OVC015-025 TOP FL250. VIS 3-5SM SN BR. 18Z OVC025. SCT VIS 5SM
SHSN. OTLK...MVFR CIG.

.
NH VT ...UPDT
NRN NH VT...BKN-OVC 025 TOP FL230 OCNL VIS 3-5SM SHSN. OTLK...MVFR CIG
SRN NH VT...SCT 200. OTLK...VFR.

.
MA RI CT ...UPDT
ERN...SCT150 SCT CI. OTLK...VFR.
WRN...SKC. 17Z SCT160. OTLK...VFR.

.
CSTL WTRS
N LN BOS-145ENE BOS
OVC010 TOP 150. VIS 3SM SN. WND VRB ARND LOW CRCLN G25KT. 1518
OVC010 TOP 120. VIS 3SM SN. WND VRB SHFTG TO W G25KT. 1922
BKN020 TOP 080. WND NW G25KT. OTLK..MVFR CIG WND.
E LN BGR-145SE BGR/S LN BOS-145ENE BOS..OVC010 TOP 100. OCNL RA.
1518 OVC015 TOP 100. WND W G25KT. 2022 BKN030 TOP 080. WND W
G30KT. OTLK..VFR WND.

RMNDR...UPDT
SCT150 SCT CI. 15Z SKC. OTLK...VFR.

***** FA Turbulence *****
current report not available

***** Severe Weather Outlook *****
SPC AC 011631
DAY 1 CONVECTIVE OUTLOOK
NWS STORM PREDICTION CENTER NORMAN OK
1031 AM CST TUE MAR 01 2005

VALID 011630Z - 021200Z

GEN TSTMS ARE FCST TO THE RIGHT OF A LINE FROM 50 S CRP 50 SE LRD 10
S LRD ...CONT... 35 ESE P07 45 NNW BGS 25 ENE PVW 50 N CDS 45 WNW
OKC 60 E OKC 30 E MLC 15 WSW TXK 50 ENE LFK 20 S BPT.

GEN TSTMS ARE FCST TO THE RIGHT OF A LINE FROM 50 S AST 30 N MFR 35
S RBL 15 NNW SFO.

GEN TSTMS ARE FCST TO THE RIGHT OF A LINE FROM 15 SW 4CR 15 W ONM 30
SSW GNT 45 SW CEZ 15 ESE VEL 35 SE RKS 35 WSW RWL 15 ESE RWL 15 SSE
LAR 25 NE DEN 45 SSE LHX 35 NNE TCC 35 WNW CVS 15 SW 4CR.

...NO SVR TSTM AREAS FORECAST...

...SRN PLAINS...

WELL DEFINED SHORTWAVE TROUGH /NOW OVER WRN NM/ WILL SHIFT EWD
ACROSS TX TONIGHT AND ENHANCE LARGE SCALE ASCENT ALONG NOSE OF
ASSOCIATED SLY LLJ WHICH WILL INCREASE THIS EVENING AND GRADUALLY
VEER OVERNIGHT. MODELS CONSISTENT IN DEVELOPING SCATTERED TO
WIDESPREAD THUNDERSTORMS LATER TODAY AHEAD OF THIS SYSTEM WHICH
SHOULD EXPAND INTO AN MCS AND SHIFT EWD ACROSS NRN/CENTRAL TX
TONIGHT. BOUNDARY LAYER WILL REMAIN RATHER COOL/DRY...SUGGESTING
STORMS WILL DEVELOP AFTER 00Z AND REMAIN ROOTED NEAR H85. STEEP
LAPSE RATES AND STRONG CLOUD-LAYER SHEAR WILL SUPPORT A THREAT OF
PERSISTENT UPDRAFTS AND HAIL AT OR BRIEFLY EXCEEDING SEVERE LEVELS.

...CENTRAL ROCKIES INTO THE NM HIGH PLAINS...

COOL MID LEVEL TEMPERATURES AND INCREASED VERTICAL MOTION AHEAD OF
STRONG SHORTWAVE TROUGH WILL SUPPORT STEEP MID LEVEL LAPSE RATES AND
MARGINAL INSTABILITY ACROSS SOME OF THE HIGHER TERRAIN OF CO/NM.
THUS...A FEW THUNDERSTORMS MAY DEVELOP OVER AND NEAR THESE AREAS.
ACTIVITY MAY BE MORE LIMITED OVER THE ERN NM PLAINS DUE TO VERY DRY
LOW LEVEL AIR...THOUGH AN ISOLATED STORM MAY FORM LATE IN THE DAY AS
MID LEVEL MOISTURE/LIFT AND WEAK INSTABILITY BECOME COLLOCATE.

...PAC NW...

MOIST ONSHORE FLOW ASSOCIATED WITH NEXT UPPER LOW NOW NEAR 41N/130W
WILL OVERSPREAD THE NRN CA/ORE COASTS LATER TODAY AND CONTINUE
OVERNIGHT. FORECAST SOUNDINGS AND CONVECTIVE PARAMETERS SUGGEST
LOW-TOPPED CONVECTION MAY BE CONDUCTIVE FOR A FEW LIGHTNING STRIKES.

..EVANS/BROYLES.. 03/01/2005

...NOTICE...

FOR USERS DECODING THE POINTS PARAGRAPH HEREIN...LATITUDE AND
LONGITUDE POINTS FOR THE CATEGORICAL AND PROBABILISTIC OUTLOOK
GRAPHICS ALSO ARE LOCATED IN A SEPARATE PRODUCT UNDER THE WMO
HEADINGS WUUS01 PTSDY1...WUUS02 PTSDY2...AND WUUS03 PTSDY3. THE
INCLUSION OF POINTS IN THIS PRODUCT WILL EVENTUALLY BE DISCONTINUED.

***** Severe Weather Warnings *****
current report not available

***** SIGMETs *****

BOSO WS 011545

SIGMET OSCAR 1 VALID UNTIL 011945

ME NH

FROM 60NNE CON TO 60W BGR TO 30S YSC TO 60NNE CON

OCNL SEV MXD/CLR ICGICIP BLW 100. RPRTD BY ACFT. CONDS ENDG

1945Z.

WDH

....

***** Convective SIGMET *****
MKCE WST 011655
CONVECTIVE SIGMET...NONE
OUTLOOK VALID 011855-012255
TS ARE NOT EXPD TO REQUIRE WST ISSUANCES.
FISCHER

***** Center Weather Advisory *****
current report not available

***** AIRMETs *****
BOSS WA 011445
AIRMET SIERRA UPDT 3 FOR IFR AND MTN OBSCN VALID UNTIL 012100
.
AIRMET IFR...ME NH VT CSTL WTRS
FROM 60NW CON TO MPV TO BGR TO 130E NHZ TO PWM TO 60NW CON
OCNL CIG BLW 010/VIS BLW 3SM PCPN/BR/FG. CONDS WDSPRD ME. CONDS
ENDG 19-23Z NH VT. CONDS ENDG 21-03Z ME. CONDS ENDG 21-05Z CSTL WTRS

.
AIRMET MTN OBSCN...ME NH VT NY
FROM 60NW CON TO MPV TO BGR TO 130E NHZ TO PWM TO 60NW CON
MTNS OCNL OBSC CLDS/PCPN/FG/BR. CONDS ENDG AFTR 19Z.

....
BOST WA 011450 COR
AIRMET TANGO UPDT 2 FOR TURB AND STG SFC WND VALID UNTIL 012100

.
AIRMET TURB...ME NH VT MA RI NY AND CSTL WTRS
FROM 60NW PQI TO PQI TO YSJ TO 140E ACK TO ACK TO PVD TO MSS TO
YSC TO 60NW PQI
OCNL MOD TURB BLW 150 DUE TO STG WND S ASSOCD WITH SFC LOW AND UPR
TROF. CONDS ENDG 17-18Z SW OF A YSC-ENE-YSJ LN. CONDS ENDG 21Z S
OF A YSC-MLT LN. CONDS CONTG BYD 21Z ENDG 03Z RMNDR ME.

.
AIRMET TURB...ME NH MA RI CT PA NJ MD DE DC VA AND CSTL WTRS
FROM HUL TO YSJ TO 140ENE ACK TO 140SE SIE TO 180E ECG TO ECG TO
40NE GSO TO SAX TO HUL
OCNL MOD TURB BTN 150 AND FL300 DUE TO WND SHR ASSOCD WITH JTST
AND UPR TROF. CONDS DVLPG N OF ACK 17-19Z. CONDS CONTG BYD 21Z
AND ENDG 00-02Z.

....
BOSZ WA 011545 AMD
AIRMET ZULU UPDT 3 FOR ICE AND FRZLVL VALID UNTIL 012100

.
...SEE SIGMET OSCAR FOR POSS SEV ICE... ...UPDT...
.
.

AIRMET ICE...ME NH VT AND CSTL WTRS
FROM 60NW CON TO MPV TO BGR TO 130E NHZ TO PWM TO 60NW CON
OCNL MOD RIME/MXD ICGICIP BTN FRZLVL AND FL180. FRZLVL SFC-040.
CONDS ENDG AFTR 22Z.

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

METAR KMHT 011653Z 03011KT 10SM FEW050 SCT100 02/M11 A3017 RMK AO2
SLP227 T00221106 10028 21072 58010
METAR KALB 011651Z 05008KT 10SM BKN150 M03/M06 A2936 RMK AO2 SLP946
P0000 T10281056
METAR KBDL 011651Z 00000KT 10SM FEW085 FEW110 06/M08 A3007
METAR KORH 011654Z 16007KT 10SM CLR 02/M09 A3011 RMK AO2
SLP197 T00181092 \$

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

BOS UA /OV BOS06015/TM 1721/FL050/TP BE35/TA M05/IC TRC RIME 070-035
BOS UA /OV BOS110020/TM 1640/FLDUGD/TP E145/SK OVC038 TOPS OVC060
MULTI LYRS/TA M11 @060/IC LGT RIME DUGD TO 038

***** Radar Summaries *****

BOX 1635 PPINE AUTO
LEX 1635 AREA 6S 6/91 45/77 112W MT 120 293/52 C0717
AUTO
^JK11 KJ111 LJ1111 MJ1111 NJ12221 OJ11111 PL111
ENX 1635 PPINE AUTO
GYX 1635 PPINE AUTO
TYX 1635 PPINE AUTO
AUTO
DIX 1635 PPINE AUTO
BGM 1635 AREA 3S 277/72 109/107 173W
AUTO
^JM1 JQ1 KN1111 LJ1111211 MK11221 NK1111 OL11 OO1 PN11

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

TAF AMD KMHT 011806Z 011818 18014G20KT P6SM FEW120
FM0100 17010KT P6SM SCT100
FM0700 VRB05KT P6SM BKN100
FM1400 22009KT P6SM SCT120 SCT200
TAF AMD KALB 011527Z 011512 VRB03KT P6SM FEW100 FEW250
FM2100 05010KT P6SM FEW250
TAF AMD KBDL 011428Z 011412 19014KT P6SM FEW250
FM0100 19009KT P6SM FEW250

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

DATA BASED ON 011200Z

VALID 011800Z FOR USE 1700-2100Z. TEMPS NEG ABV 24000FT

	3000	6000	9000	12000	18000	24000	30000	34000	39000
BOS	2609	2829-08	2425-11	2437-17	2334-28	2214-40	233946	234847	235148
ALB	9900	3113-10	2005-12	1208-18	1616-28	0412-39	121551	212450	234247
BDL	2411	2815-09	2531-11	2529-17	2224-30	1308-41	222746	234147	235047

DATA BASED ON 011200Z

VALID 020000Z FOR USE 2100-0600Z. TEMPS NEG ABV 24000FT

	3000	6000	9000	12000	18000	24000	30000	34000	39000
BOS	2726	2528-11	2633-15	2523-20	2416-32	0511-41	222145	233944	235145
ALB	2918	2919-12	2919-16	3116-20	3311-30	0229-40	081451	242248	243246
BDL	2627	2827-13	2730-16	2823-21	2912-32	0425-41	230947	243445	244445

***** NOTAMs *****

!BDR 03/007 BDR PTCHY THN SLR WEF 0503011607
!BDR 01/082 1B6 AP CLSD WEF 0501211930
!BDR 06/062 RI9 HELI CLSD EX 1 HR PPR 401-737-4000 EXTN 227 WEF
0406291600
!BDR 03/006 1B9 AP CLSD WEF 0503011235
!BDR 02/030 1B9 TOWER 483 (294 AGL) 6.2 W LGTS OTS (ASR 1003545)
TIL 0503021725
!BDR 02/029 1B9 TOWER 443 (254 AGL) 6.2 W LGTS OTS (ASR 1003544)
TIL 0503021719
!BDR 03/004 9B1 TOWER 2701 (1249 AGL) 2.5 NNE LGTS OTS
(ASR 1046935) TIL 0503161125
!BDR 05/027 9B4 AP CLSD WEF 0405181814
!MHT 03/005 MHT 6/24 1/4 IN LSR/PSR WEF 0503011345
!MHT 03/004 MHT 17/35 1/8 IN LSR/PSR WEF 0503011345
!MHT 02/063 MHT TOWER UNKN (205 AGL) 5.54 NNW LGTS OTS WEF 0503041620
!MHT 02/062 MHT TOWER UNKN (205 AGL) 5.50 NNW LGTS OTS WEF 0503041620
!MHT 02/061 MHT TOWER UNKN (205 AGL) 5.43 NNW LGTS OTS WEF 0503041620
!MHT 02/060 MHT TOWER UKN (205 AGL) 5.46 NNW LGTS OTS WEF 0503041620
!MHT 02/059 MHT TOWER UKN (205 AGL) 5.45 NNW LGTS OTS WEF 0503041620
!BDR 01/043 GDM PTCHY SIR WEF 0501121859
!ALB 03/016 ALB 1/19 OUTER 10 FT THN PSR 12 IN SBNKS WEF 0503011717
!ALB 03/017 ALB 10/28 CLSD
!ALB 09/019 ALB WSP (WEATHER SYSTEM PROCESSOR) CMSND WEF 0409301000
!ALB 02/074 ALB TOWER 364 (207 AGL) 5.7 SSE LGTS OTS TIL 0503141850
!ALB 02/037 ALB TOWER 559 (185 AGL) 4.5 SSE LGTS OTS (ASR 1005870)
TIL 0503020300
!BDL 03/003 BDL 6/24 PTCHY THN LSR SA WEF 0503011605
!BDL 10/013 BDL 22B AP CLSD PERM WEF 0410081335
!BDL 03/001 BDL 15/33 CLSD WEF 0503010137
!BDL 02/089 BDL 6/24 DEICED LIQUID WEF 0502281918
!BDL 02/020 BDL TACAN AZM OTS WEF 0502081712

***** FDC NOTAMS *****

!FDC 5/1193 ZBW MA.. GRANITEVILLE, MASSACHUSETTS.

LASER LIGHT ACTIVITY WILL BE CONDUCTED AT: THE SQUARE AREA, IN THE VICINITY OF GRANITEVILLE, MA, 2.0 MILES BY 2.0 MILES CENTERED ON MANCHESTER /MHT/ VORTAC 210 DEGREE RADIAL AT 16.3 NAUTICAL MILES AT 2,000 FT AMSL TO 40,000 FT AMSL 423642N/0712936W. FROM 0502140001 UTC UNTIL 0512310500 UTC.

THIS IS A DOWNWARD POINTING LASER ONLY. LASER LIGHT BEAM MAY BE INJURIOUS TO PILOTS/PASSENGERS EYES WITHIN 1080 FEET LATERALLY BELOW THE LIGHT SOURCE. FLASH BLINDNESS OR COCKPIT ILLUMINATION MAY OCCUR BEYOND THESE DISTANCES. BRIDGEPORT /BDR/ AFSS, PHONE 866-293-5149, IS THE FAA COORDINATION FACILITY.

!FDC 5/1170 ZBW MA.. BEDFORD, MASSACHUSETTS.

LASER LIGHT ACTIVITY WILL BE CONDUCTED AT: THE SQUARE AREA, OVER HANSCOM AIR FORCE BASE, IN THE VICINITY OF BOSTON, MA, 2.5 MILES BY 2.5 MILES CENTERED ON BOSTON /BOS/ VORTAC, 311 DEGREE RADIAL AT 14.4 NAUTICAL MILES AT 2000 FT AMSL TO 40,000 FT AMSL. 422748N/0711706W. 0001-0500 UTC DLY EFFECTIVE: 0502100001 UTC UNTIL 0512310500 UTC.

THIS IS A DOWNWARD POINTING LASER ONLY. LASER LIGHT BEAM MAY BE INJURIOUS TO PILOTS/PASSENGERS EYES WITHIN 1080 FEET LATERALLY BELOW THE LIGHT SOURCE. FLASH BLINDNESS OR COCKPIT ILLUMINATION MAY OCCUR BEYOND THESE DISTANCES. BRIDGEPORT /BDR/ AFSS, PHONE 866-293-5149, IS THE FAA COORDINATION FACILITY.

!FDC 4/3847 ZBW MA.. GRANITEVILLE, MA. LASER LIGHT ACTIVITY WILL BE CONDUCTED AT: THE AREA IN THE VICINITY OF GRANITEVILLE, MA. AT 700 FEET AMSL, 423703N/0712933W, THE BOSTON VORTAC /BOS/ VORTAC 321 DEGREE RADIAL AT 27 NAUTICAL MILES, 24 HOURS PER DAY, FROM 0501010500 UTC UNTIL 0507010400 UTC. LASER LIGHT BEAM MAY BE INJURIOUS TO PILOTS'/PASSENGERS' EYES AT 700 FEET AMSL, 300 FEET ABOVE GROUND LEVEL, WITHIN 300 FEET LATERALLY OF THE LIGHT SOURCE. FLASH BLINDNESS OR COCKPIT ILLUMINATION MAY OCCUR BEYOND THESE DISTANCES. THE BRIDGE-PORT AFSS, PHONE 866-292-5149, IS THE FAA COORDINATION FACILITY.

WAREHOUSE POINT

SKYLARK AIRPARK (7B6) 2 E UTC-5(-4DT) N41°55.76' W72°34.47'

NEW YORK
L-25C, 28I

120 S4 FUEL 100LL, MOGAS

RWY 10-28: H3242X60 (ASPH) S-9 LIRL (NSTD)

RWY 10: Thld dspcd 600'. P-line. RWY 28: Thld dspcd 175'. Trees.

AIRPORT REMARKS: Attended daylight hours. Arpt lgts OTS indef. Rwy 10-28 dspcd thld Rwy 10 not lgtd. ACTIVATE NSTD LIRL Rwy 10-28—122.8.

COMMUNICATIONS: CTAF/UNICOM 122.8

BRIDGEPORT FSS (BDR) TF 1-800-WX-BRIEF. NOTAM FILE BDR.

RADIO AIDS TO NAVIGATION: NOTAM FILE BDL.

BRADLEY (T) VORTACW 109.0 BDL Chan 27 N41°56.46' W72°41.32' 112° 5.2 NM to fld. 160/14W.

COMM/NAV/WEATHER REMARKS: Clnc del thru Bridgeport FSS (BDR) 1-866-293-5149.

WATERBURY (N41) 4 N UTC-5(-4DT) N41°38.01' W73°02.81'

NEW YORK

850

RWY 17-35: 2005X135 (TURF)

RWY 17: Trees. RWY 35: Road.

RWY 02-20: 1600X250 (TURF)

RWY 02: Trees. RWY 20: Trees.

AIRPORT REMARKS: Unattended. Extreme CAUTION Ldg/taxi app end Rwy 35 winter months and after heavy rain, poor drainage.

COMMUNICATIONS: CTAF 122.9

BRIDGEPORT FSS (BDR) TF 1-800-WX-BRIEF. NOTAM FILE BDR.

COMM/NAV/WEATHER REMARKS: Clnc del thru Bridgeport FSS (BDR) 1-866-293-5149.

WATERBURY N41°31.76' W73°08.62' NOTAM FILE BDR.

NEW YORK
L-25C, 28H

NDB (MHW) 257 TBY 187° 3.1 NM to Waterbury-Oxford. Unusable byd 10 NM.

92

MASSACHUSETTS

HOPEDALE INDUSTRIAL PARK (1B6) 3 SE UTC-5(-4DT) N42°06.39' W71°30.61'

NEW YORK
COPTER
L-25D, 28I
IAP

269 B S2 FUEL 100LL

RWY 18-36: H3172X90 (ASPH) S-12 LIRL 1.0% up N

RWY 18: Trees. RWY 36: REIL. Thld dspcd 110'. Trees.

AIRPORT REMARKS: Attended Mon-Fri dawn-dusk. Arpt CLOSED to transient acft SS-SR. Arpt CLOSED to transient student training. Arpt CLOSED to jets and ngt lgds except PPR call 508-478-1726. Rwy 18 two story house 27' AGL (291' MSL) located approximately 400' NW rwy thld. Rwy lgts and rotating bcn opr dusk-0300Z±.

COMMUNICATIONS: CTAF/UNICOM 122.8

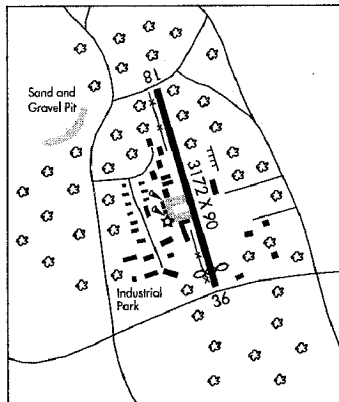
BRIDGEPORT FSS (BDR) TF 1-800-WX-BRIEF. NOTAM FILE BDR.

① BRADLEY APP/DEP CON 119.0

RADIO AIDS TO NAVIGATION: NOTAM FILE BDR.

PUTNAM (H) VOR/DME 117.4 PUT Chan 121 N41°57.33' W71°50.65' 073° 17.5 NM to fld. 650/14W.

COMM/NAV/WEATHER REMARKS: Clnc del thru Bridgeport FSS (BDR) 1-866-293-5149.



MANCHESTER (MHT) 3 S UTC-5(-4DT) N42°55.95' W71°26.14'

NEW YORK
H-11D, L-25D, 26F
IAP, AD

266 B S4 FUEL 100LL, JET A OX3 LRA ARFF Index C

RWY 17-35: H9250X150 (ASPH-GRVD) S-200, D-200, DT-350 HIRL CL

RWY 17: MALSR. TDZL. PAPI(P4R)—GA 3.1° TCH 49'. Thld dspcd 336'. Pole.

RWY 35: ALSF2. REIL. TDZL. PAPI(P4L)—GA 3.0° TCH 50'. Thld dspcd 850'. Trees.

RWY 06-24: H6850X150 (ASPH-GRVD) S-200, D-300, DT-350 HIRL

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 66'. Trees.

RWY 24: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 17: TORA-9250 TODA-9250 ASDA-9250 LDA-8914

RWY 35: TORA-9250 TODA-9250 ASDA-8500 LDA-7650

AIRPORT REMARKS: Attended continuously. Rwy 06-24 east of Twy J1 avbl for taxiing acft only. Crane unknown (265'AGL) 1,750' right of Rwy 06 centerline 1200-0000Z± daily. No touch and go lgds during snow removal opr. Noise abatement procedures: Turbojet acft should expect a right turn when departing Rwy 17. Twy A safety area S of Twy E to Twy P is 65' on the west side and 100' on the east side. First 300' SW of Rwy 06 thld avbl for taxiing acft only. Twy E clsd west of Twy G to air carrier acft with wingspans 125' or greater. Twy C clsd W of Twy A due to construction indef. Twys E and N west of G are non-visibility areas. Acft operators must notify twr of intentions prior to operating in these areas. Jet acft taxiing westbound across Rwy 17-35 at Twys C, D and E must use caution low settings due to lgt acft parked on the east ramp. No taxiing between pushed back acft and the airline terminal or cargo ramps. Acft not permitted to taxi between airline terminal bldg and acft that have pushed back or are taxiing on Twy G or N. Air carrier acft only permitted to oper on airline terminal ramp. Air carriers excluded from Twy L. Rwy 35 touchdown, midfield and rollout runway visual range avbl. Rwy 06 touchdown and rollout runway visual range avbl. Rwy 24 touchdown and rollout runway visual range avbl. Rwy 17 touchdown, midfield and rollout runway visual range avbl. Ldg fee for itinerant acft over 12,500 lbs. U.S. Customs user fee aprt.

WEATHER DATA SOURCES: ASOS 119.55 (603) 668-8992. LAWR5.

COMMUNICATIONS: ATIS 119.55 UNICOM 122.95

BANGOR FSS (BGR) TF 1-800-WX-BRIEF. NOTAM FILE MHT.

RCO 122.1R 114.4T (BANGOR FSS)

① BOSTON APP/DEP CON 124.9

TOWER 121.3 GND CON 121.9 CLNC DEL 135.9

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE MHT.

(L) VOR/DME 114.4 MHT Chan 91 N42°52.11' W71°22.17' 338° 4.8 NM to fld. 469/15W.

DERRY NDB (MHW) 338 DRY N42°52.20' W71°23.83' 352° 4.1 NM to fld. OTS indef.

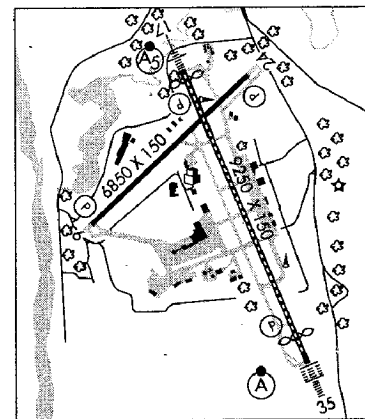
FITZY NDB (LOM) 209 MJ N42°51.85' W71°31.73' 061° 5.8 NM to fld.

ILS 109.95 I-MJE Rwy 06. LOM FITZY NDB. Localizer front course unusable from .8 NM to thld avb 1300'.

ILS/DME 109.1 I-MNA Chan 28 Rwy 17. Class IA.

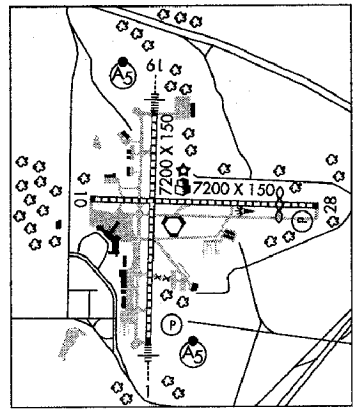
ILS/DME 109.1 I-MHT Chan 28 Rwy 35. Class IB. Localizer unusable byd 20° left side of course.

MM OTS indef. OM "GRENI" OTS indef.



ALBANY INTL (ALB) 6 NW UTC-5(-4DT) N42°44.90' W73°48.10'
 285 B S4 FUEL 100LL, JET A AOE ARFF Index C
 RWY 01-19: H7200X150 (ASPH-GRVD) S-140, D-200, DT-400 HIRL CL
 RWY 01: MALSR. PAPI(P4R)—GA 3.0° TCH 54'. Tree.
 RWY 19: MALSR.

NEW YORK
 H-101, 11C, L-25B, 26F, 28I
 IAP, AD



RWY 10-28: H7200X150 (ASPH-GRVD) S-140, D-200,
 DT-400 HIRL CL
 RWY 10: REIL. Trees.
 RWY 28: REIL. PAPI(P4L)—GA 3.35° TCH 50'. Thld dspcd 1201'.
 Tank.

RUNWAY DECLARED DISTANCE INFORMATION
 RWY 01: TORA-7200 TODA-7200 ASDA-7200 LDA-7200
 RWY 19: TORA-7200 TODA-7200 ASDA-7200 LDA-7200
 RWY 10: TORA-7200 TODA-7200 ASDA-6780 LDA-6780
 RWY 28: TORA-7200 TODA-7200 ASDA-7200 LDA-6000

AIRPORT REMARKS: Attended continuously. Birds and deer on and invof
 arpt. Weather balloon launches approximately 3 miles S of arpt at
 1100Z± and 2300Z±. Rwy 01 touchdown runway visual range avbl.
 Twy 'C' west of Twy 'A' non movement area. Twy D east of Rwy
 01-19 restricted to acct 12,500 lbs and less.
 Customs/Immigration's Flight Information Service adjacent to Twy
 E east of Rwy 01-19 on apron area; please follow markings. Ldg
 fee. Flight Notification Service (ADCUS) available. NOTE: See Land and Hold Short Operations Section.

WEATHER DATA SOURCES: ASOS (518) 464-6423.
COMMUNICATIONS: ATIS 120.45 (1-800-342-0120) UNICOM 122.95
 BURLINGTON FSS (BTY) TF 1-800-WX-BRIEF. NOTAM FILE ALB.
 RCO 122.1R 115.3T (BURLINGTON FSS) RCO 122.45 122.2 (BURLINGTON FSS)
 ® APP/DEP CON 125.0 (011°-194°) 118.05 (194°-011°) 127.15
 TOWER 119.5 GND CON 121.7 CLNC DEL 127.5
AIRSPACE: CLASS C svc continuous etc APP CON
RADIO AIDS TO NAVIGATION: NOTAM FILE ALB.

(L) VORTAC 115.3 ALB Chan 100 N42°44.84' W73°48.19' at fld. 275/13W.
 VOR unusable:
 330°-019° blo 3000' 100°-135° byd 8 NM blo 10000'
 byd 10 NM blo 6000' 120°-135° byd 37 NM blo 14500'
 byd 19 NM blo 9000' 136°-174° byd 8 NM blo 6000'
 byd 28 NM blo 10000' 175°-221° byd 8 NM blo 3000'
 020°-059° byd 13 NM blo 6000' 310°-320° byd 30 NM blo 5000'
 060°-080°
 DME unusable:
 030°-055° byd 10 NM 255°-340° byd 28 NM
 155°-195° byd 28 NM blo 5500'

HAWKY NDB (LOM) ±19 AL N42°49.04' W73°48.51' 189° 4.2 NM to fld. Unusable 160°-210° byd 10 NM.
 ILS 109.5 I-ALB Rwy 19. LOM HAWKY NDB.
 ILS 109.5 I-DEJ Rwy 01. Class IC.

COMM/NAVWEATHER REMARKS: CLASS C information available on ATIS frequency 20 NM.

OXYGEN SYSTEM OPERATION

The main shut - off valve and pressure gauge are located on the aft panel of the baggage compartment. See Fig. 1-14. To use the system, the valve must be opened fully.

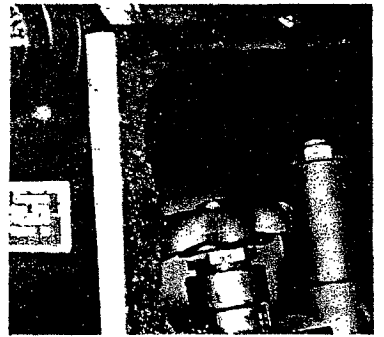


Fig. 1-14
 Oxygen Shut-off Valve

NOTE

The pressure gauge should not be used to determine the position of the shut-off valve, as pressure may be indicated when in the CLOSED position.

WARNING

Do Not Smoke When Oxygen System Is In Use.

When oxygen is desired, push and rotate the hose fitting into the distributor manifold, with the pilot using the foremost outlet.

When oxygen is flowing, a green band should be visible in the flow indicator which is a part of the oxygen mask flow line.

NOTE

The altitude compensating regulator, 2900B, will not allow oxygen flow below approximately 3000 feet MSL.

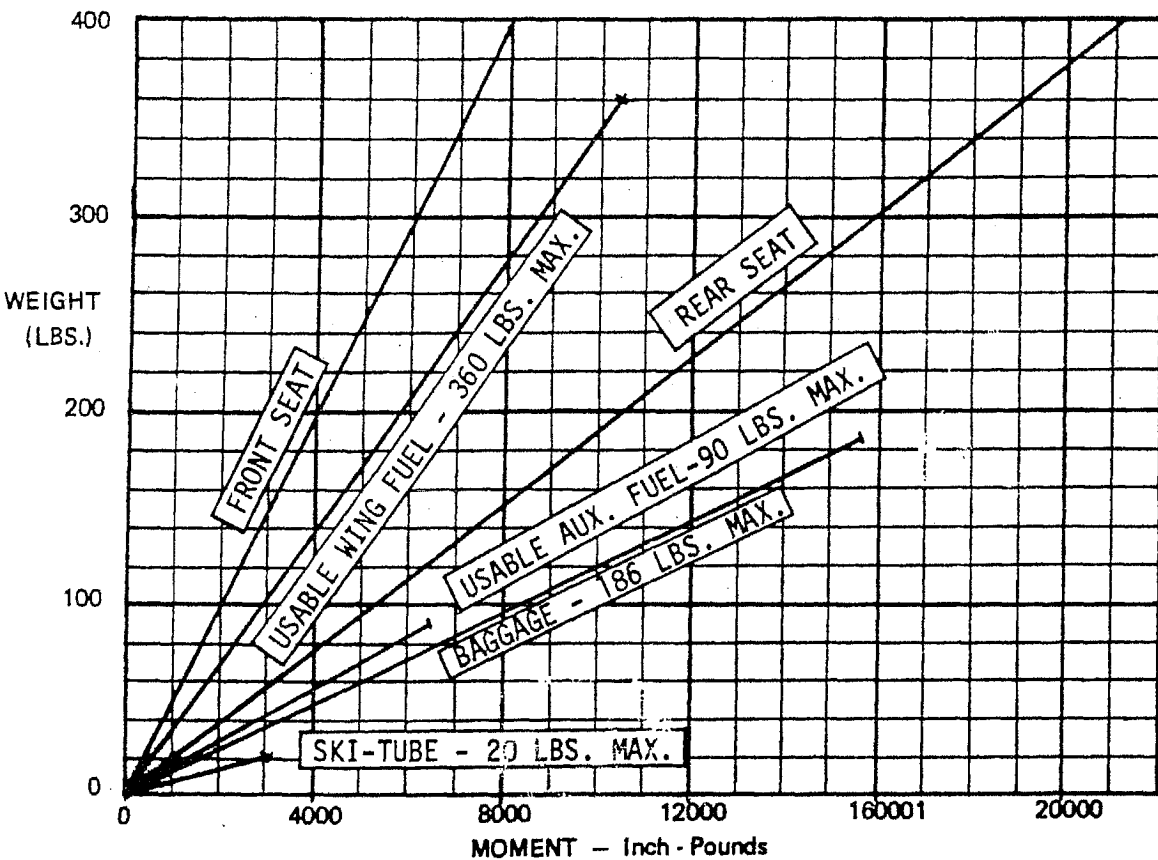
The shut off valve should be closed after the flight to prevent possible leakage.

OXYGEN DURATION CHART

	48 Cu. Ft.	63 Cu. Ft.
Pilot	7.5 hrs.	9.5 hrs.
Pilot + 1 Passenger	4.3 hrs.	5.4 hrs.
Pilot + 2 passengers	2.9 hrs.	3.7 hrs.
Pilot + 3 Passengers	2.3 hrs.	2.9 hrs.

NOTE

Valves shown are maximum flow rates at 24,000 MSL with 1800 psi gauge pressure. With altitude compensating regulator increase time approximately 10% per 5,000 feet below 24,000 feet MSL. Duration time is in direct proportion to gauge pressure when less than 1800 psi. (eg. When gauge pressure is 900 psi, duration is half).



SAMPLE LOADING PROBLEM	SAMPLE AIRPLANE		your AIRPLANE		
	Arm	Weight	Moment	Weight	Moment
1. Licensed Empty Weight	16.1	2202.5	35,460	2,318.7	37,331.07
2. Oil - 12 qts. @ 7.5 lbs./gal.	-41.1	22.5	-923	22.5	-923
Licensed Empty Weight and Moment With Oil		2225	34,538		
3. Pilot and Front Passengers	20.0	340	6,800		
Rear Passenger(s)	53.0	340	18,020		
Baggage - 186 lbs. Max. including hat shelf	84.0	40	3,360		
Ski-tube - 20 lbs. Max. - forward area only - full length	120.0 156.4	20 0	2,400		
Wing Fuel - Usable 60 gal. Max. @ 6 lbs./gal.	29.0	360	10,440		
Aux. Fuel - Usable 15 gal. Max. @ 6 lbs./gal.	72.0	0	0		
Gross Take-Off Weight and Moment		3325	75,558		

NOTE
To determine Take-Off Center of Gravity (inches aft of datum), divide the Gross Take-Off Moment by the Gross Take-Off Weight.

Figure 4-1 SAMPLE LOADING PROBLEM

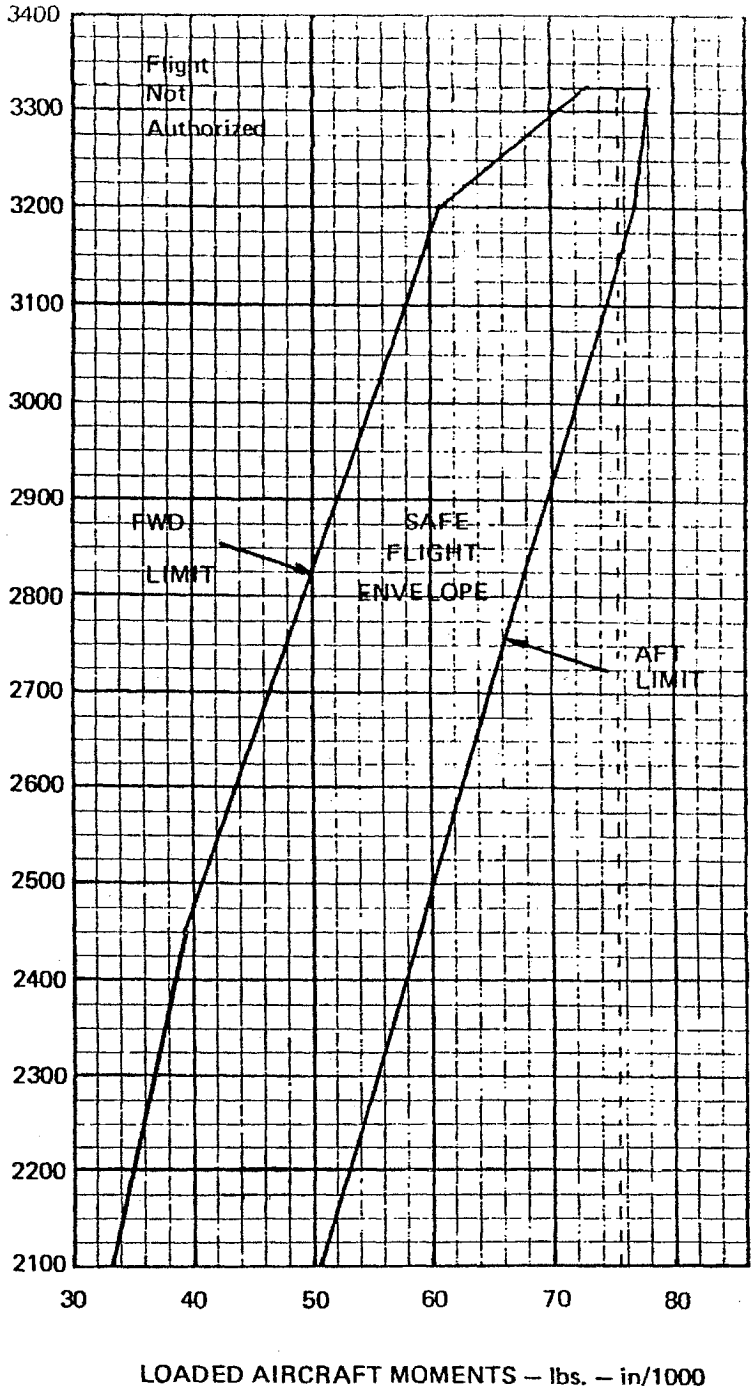


Fig. 4-3 FLIGHT ENVELOPE

TAKE-OFF PERFORMANCE - ALL MODELS (Normal Aspirated) * (Turbo-Charged - See Note 5)

Gross Weight Pounds	IAS @ 50 Ft.	Head Wind Knots	@ Sea Level & 59°F		@ 2500 Ft. & 50°F		@ 5000 Ft. & 41°F		@ 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.
3325	75	0	980	1420	1125	1680	1310	2110	1610	2965
		10	705	1075	785	1260	925	1610	1150	2305
		20	470	775	535	930	640	1210	810	1780
2900	70	0	705	1025	820	1220	1015	1595	1100	2135
		10	505	775	595	940	745	1240	865	1700
		20	340	555	410	690	515	1095	610	1585
2500	64	0	510	750	605	910	720	1160	880	1615
		10	340	535	405	660	495	830	610	1235
		20	210	365	255	455	320	590	405	915

NOTE

1. Throttle - FULL OPEN, Propeller - FULL INCREASE RPM
2. Flaps - HALF, Gear - DOWN
3. Hard Surface Runway
4. Increase Distance 10% for each 20°F above standard
5. With the turbo-charger operating, use Sea Level Performance Figures plus 4% for each 1000 ft. above sea level. Allowance for variation in OAT is still required. Assumes 29.5" MAP.

**MAXIMUM CONTINUOUS RATE OF CLIMB
17-31ATC (Turbo Charged)**

ALTITUDE MSL	GROSS WT. LBS.	IAS MPH	RATE OF CLIMB FT/Min.	FUEL USED FROM S.L. GALS.
5000 FT & 41°F	3325	108	810	4.5
	2900	102	1060	—
	2500	98	1365	—
10,000 FT & 23°F	3325	108	760	6.0
	2900	102	1015	—
	2500	98	1330	—
15,000 FT & 5°F	3325	108	700	8.0
	2900	102	960	—
	2500	98	1275	—
20,000 FT & -12°F	3325	108	640	11.0
	2900	102	895	—
	2500	98	1215	—
24,000 FT	3325	108	575	13.0
	2900	102	845	—
	2500	98	1165	—

NOTE

1. Gear and Flaps — UP
2. MAP — 27" Hg, 2400 RPM
3. Fuel includes warm-up and take-off
4. Decrease rate of climb 50 FT/Min. for each 10°F above standard

CRUISE PERFORMANCE

Standard Conditions, Zero Wind
Gross Weight — 3325 lbs.

Model No. 17-31A & 17-31ATC (Normal Aspirated — Lyc.)
2,500 FEET
Recommended Lean Mixture
No Reserve

RPM	M.P. IN. Hg.	% BHP	TAS, M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2500	26	82	190	17.3	3.5	660	4.3	825
	24	74	183	15.6	3.8	705	4.8	875
	23	70	179	15.1	4.0	710	5.0	890
	22	66	178	14.3	4.2	750	5.3	935
	26	79	187	16.6	3.6	675	4.5	845
	25	75	184	15.8	3.8	700	4.7	870
	24	71	180	15.0	4.0	720	5.0	900
2400	23	67	175	14.5	4.1	725	5.2	905
	22	63	171	13.6	4.4	755	5.5	940
	21	59	166	13.1	4.6	765	5.8	955
	20	55	161	12.2	4.9	795	6.2	990
	19	51	154	11.6	5.2	800	6.5	990
	18	47	145	11.1	5.4	780	6.7	980
	25	73	182	15.0	4.0	725	5.0	910
2300	24	68	177	14.3	4.2	740	5.2	925
	23	65	172	13.6	4.4	760	5.5	950
	22	61	168	12.8	4.7	785	5.9	985
	21	57	164	12.3	4.9	800	6.1	1000
	20	53	158	11.7	5.2	810	6.4	1010
	19	49	149	11.0	5.5	815	6.9	1020
	18	46	141	10.5	5.7	805	7.1	1005
2200	25	69	1771	14.1	4.3	755	5.3	940
	24	65	173	13.4	4.5	775	5.6	970
	23	62	169	13.0	4.6	785	5.8	980
	22	58	165	12.3	4.9	810	6.1	1010
	21	55	160	11.5	5.2	835	6.5	1045
	20	51	153	11.0	5.5	835	6.8	1045
	19	48	146	10.5	5.7	835	7.2	1045
18	44	135	10.1	5.9	800	7	1045	

CRUISE PERFORMANCE

Model No. 17-31A & 17-31ATC (Normal Aspirated - Lyc.)

Standard Conditions, Zero Wind
Gross Weight - 3325 lbs.

5,000 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS, M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2500	25	82	194	17.2	3.5	675	4.4	845
	23	73	185	15.4	3.9	720	4.9	900
	21	65	177	14.0	4.3	760	5.4	950
	19	56	158	12.6	4.8	750	5.0	940
	26	81	193	17.1	3.5	680	4.4	845
2400	25	78	191	16.5	3.7	695	4.6	870
	24	74	186	15.5	3.9	720	4.8	900
	23	70	182	14.7	4.1	745	5.1	930
	22	66	178	14.3	4.2	750	5.3	935
	21	62	173	13.3	4.5	780	5.6	975
2300	20	58	167	12.7	4.7	790	5.9	985
	19	54	161	12.1	5.0	800	6.2	1000
	18	50	153	11.5	5.2	800	6.5	1000
	24	71	183	14.8	4.0	740	5.1	925
	23	67	178	14.1	4.2	755	5.3	945
2200	22	63	175	13.3	4.5	790	5.6	985
	21	60	169	12.8	4.7	790	5.9	990
	20	55	164	11.9	5.0	825	6.3	1035
	19	50	156	11.1	5.4	845	6.8	1055
	18	48	144	10.8	5.6	830	7.0	1035
2200	25	71	183	14.6	4.1	755	5.2	945
	24	67	180	13.8	4.4	785	5.4	980
	23	63	175	13.1	4.6	805	5.8	1005
	22	60	171	12.7	4.7	810	5.9	1010
	21	57	166	11.9	5.0	835	6.3	1045
2200	20	54	161	11.5	5.2	835	6.5	1045
	20	50	152	10.9	5.5	835	6.9	1045
	19	46	142	10.4	5.8	825	7.3	1030

CRUISE PERFORMANCE

Model No. 17-31ATC

Standard Conditions, Zero Wind
Gross Weight - 3325 lbs.

7,500 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS, M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2400	27	79	196	16.6	3.6	710	4.5	885
	26	76	193	15.9	3.8	730	4.7	910
	25	73	189	15.3	3.9	740	4.9	930
	24	69	186	14.6	4.1	765	5.2	960
	23	66	183	14.3	4.2	770	5.3	980
2300	22	63	178	13.6	4.4	740	5.5	985
	21	60	174	12.9	4.7	810	5.8	1010
	27	76	193	16.0	3.8	725	4.7	905
	26	73	190	15.4	3.9	740	4.9	925
	25	71	187	14.8	4.0	755	5.1	945
2200	24	68	184	14.2	4.2	775	5.3	970
	23	65	180	13.7	4.4	790	5.5	990
	22	62	178	13.1	4.6	815	5.7	1020
	21	60	174	12.8	4.7	815	5.9	1015
	27	73	189	14.9	4.0	760	5.0	950
2200	26	70	187	14.4	4.2	780	5.2	975
	25	67	184	13.8	4.4	800	5.4	1000
	24	65	180	13.3	4.5	810	5.6	1015
	23	62	178	12.8	4.7	835	5.9	1045
	22	60	174	12.6	4.8	830	6.0	1035
2200	21	57	170	12.0	5.0	845	6.2	1060

CRUISE PERFORMANCE

Model No. 17-31ATC

Standard Conditions, Zero Wind
Gross Weight - 3325 lbs.

10,000 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS. M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2400	27	79	201	16.6	3.6	725	4.5	910
	26	76	198	15.9	3.8	745	4.7	935
	25	73	193	15.3	3.9	755	4.9	945
	24	69	191	14.6	4.1	785	5.1	980
	23	66	186	14.3	4.2	780	5.2	975
2300	22	63	182	13.5	4.4	810	5.6	1010
	21	60	177	12.9	4.7	825	5.8	1030
	27	76	198	16.0	3.8	745	4.7	930
	26	73	194	15.4	3.9	755	4.9	945
	25	71	192	14.8	4.1	780	5.1	970
2200	24	68	189	14.2	4.2	800	5.3	1000
	23	65	185	13.7	4.4	810	5.5	1015
	22	62	180	13.1	4.6	825	5.7	1030
	21	60	177	12.8	4.7	830	5.9	1035
	27	73	193	14.9	4.0	775	5.0	970
2100	26	70	191	14.4	4.2	795	5.2	995
	25	67	189	13.8	4.4	820	5.4	1025
	24	65	185	13.3	4.5	835	5.6	1045
	23	62	180	12.8	4.7	845	5.9	1055
	22	60	177	12.6	4.8	845	6.0	1055
2000	21	57	171	12.0	5.0	855	6.3	1070

CRUISE PERFORMANCE

Model No. 17-31ATC

Standard Conditions, Zero Wind
Gross Weight - 3325 lbs.

15,000 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS. M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2400	27	79	214	16.6	3.6	775	4.5	965
	26	76	207	15.9	3.8	780	4.7	975
	25	73	203	15.3	3.9	795	4.9	995
	24	69	198	14.6	4.1	815	5.1	1015
	23	66	194	14.3	4.2	815	5.2	1015
2300	22	63	188	13.5	4.4	835	5.6	1045
	21	60	183	12.5	4.7	850	5.8	1065
	27	76	207	16.0	3.8	775	4.7	970
	26	73	204	15.4	3.9	795	4.9	995
	25	71	199	14.8	4.1	805	5.1	1010
2200	24	68	195	14.2	4.2	825	5.3	1030
	23	65	192	13.7	4.4	840	5.5	1050
	22	62	187	13.1	4.6	855	5.7	1070
	21	60	182	12.8	4.7	855	5.9	1065
	27	73	203	14.9	4.0	815	5.0	1020
2100	26	70	199	14.9	4.2	830	5.2	1035
	25	67	195	13.8	4.4	850	5.4	1060
	24	65	192	13.3	4.5	865	5.6	1085
	23	62	187	12.8	4.7	875	5.9	1095
	22	60	183	12.6	4.8	870	6.0	1090
2000	21	57	175	12.0	5.0	875	6.3	1095

CRUISE PERFORMANCE

Model No. 17-31ATC

Standard Conditions, Zero Wind
Gross Weight — 3325 lbs.

20,000 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS. M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2400	27	79	221	16.5	3.6	800	4.5	1000
	26	76	216	15.9	3.8	815	4.7	1020
	25	73	211	15.3	3.9	830	4.9	1035
	24	69	206	14.6	4.1	850	5.2	1080
	23	66	200	14.3	4.2	840	5.3	1050
	22	63	193	13.6	4.4	855	5.5	1070
2300	21	60	185	12.9	4.7	860	5.8	1075
	27	76	216	16.0	3.8	810	4.7	1015
	26	73	212	15.4	3.9	825	4.8	1030
	25	71	208	14.8	4.0	840	5.0	1050
	24	68	203	14.2	4.2	855	5.3	1070
	23	65	197	13.7	4.4	865	5.5	1080
2200	22	62	192	13.1	4.6	880	5.7	1100
	21	60	185	12.8	4.7	865	5.9	1080
	27	73	211	14.9	4.0	860	5.0	1060
	26	70	207	14.4	4.2	865	5.2	1080
	25	67	203	13.8	4.4	885	5.4	1105
	24	65	197	13.3	4.5	885	5.6	1110
	23	62	192	12.8	4.7	900	5.9	1125
	23	60	185	12.6	4.8	880	6.0	1100
	22	60	185	12.0	5.0	880	6.2	1100
	21	57	178	12.0	5.0	885	6.2	1110

CRUISE PERFORMANCE

Model No. 17-31ATC

Standard Conditions, Zero Wind
Gross Weight — 3325 lbs.

24,000 FEET

Recommended Lean Mixture
No Reserve

RPM	M.P. IN. HG.	% BHP	TAS. M.P.H.	GAL./ HR.	60 Gal. Fuel		75 Gal. Fuel	
					Endurance	Range	Endurance	Range
2400	27	79	228	16.6	3.6	825	4.5	1030
	26	76	223	15.9	3.8	840	4.7	1050
	25	73	219	15.3	3.9	860	4.9	1075
	24	69	211	14.7	4.1	870	5.1	1075
	23	66	204	14.3	4.2	855	5.2	1070
	22	63	195	13.5	4.4	865	5.6	1085
2300	21	60	184	12.9	4.7	855	5.8	1070
	27	76	223	16.0	3.8	835	4.7	1045
	26	73	220	15.4	3.7	855	4.9	1070
	25	71	213	14.8	4.1	865	5.1	1080
	24	68	207	14.2	4.2	875	5.3	1095
	23	65	200	13.7	4.4	875	5.5	1095
2200	22	62	191	13.1	4.6	875	5.7	1095
	21	60	182	12.8	4.7	855	5.9	1065
	27	73	217	14.9	4.0	880	5.0	1100
	26	70	213	14.4	4.2	885	5.2	1110
	25	67	207	13.8	4.4	900	5.4	1125
	24	65	200	13.3	4.5	900	5.6	1130
	23	62	191	12.8	4.7	895	5.9	1120
	23	60	184	12.6	4.8	875	6.0	1095
	22	60	182	12.0	5.0	810	6.3	1015

LANDING PERFORMANCE – ALL MODELS

GROSS WEIGHT LBS.	IAS @ 50 Ft.	SEA LEVEL & 59°F		2500 FT. & 50°F		5000 FT. & 41°F		7500 FT. & 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.
3325	90	835	1340	890	1425	950	1520	1015	1625

NOTE

1. Flaps – FULL DOWN
2. Power OFF and maximum braking
3. Sero wind
4. Reduce distance 10% for each 5 KTS of headwind