# OPERATIONAL CLIMATIC DATA SUMMARY

SOLICITATION NO. FA4497-10-R-0005
CONTRACT NO.

STATION: DOVER AFB, DELAWARE
LOCATION: 3908N 7528W
PREPARED BY: AFCCC/DOS, SEP 1997

STATION #: 724088
ELEVATION (FEET): 30
PERIOD: 7301-9612

ICAO: DOV
LST = GMT -5

| SOURCE NO. | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1. TEMPERATURE ( F)** | | | | | | | | | | | | | |
| EXTREME MAX 2 | 72 | 76 | 87 | 90 | 97 | 100 | 103 | 101 | 97 | 91 | 83 | 74 | 103 |
| MEAN DAILY MAX 2 | 41 | 43 | 52 | 62 | 72 | 81 | 85 | 83 | 77 | 66 | 56 | 45 | 64 |
| MEAN 2 | 33 | 36 | 44 | 53 | 63 | 72 | 77 | 75 | 69 | 58 | 47 | 38 | 56 |
| MEAN DAILY MIN 2 | 26 | 28 | 35 | 44 | 54 | 63 | 68 | 67 | 60 | 49 | 39 | 30 | 47 |
| EXTREME MIN 2 | -5 | 0 | 9 | 21 | 33 | 43 | 52 | 48 | 39 | 24 | 14 | -4 | -5 |
| # DAYS GE 90 2 | 0 | 0 | 0 | # | 1 | 4 | 8 | 5 | 2 | 0 | 0 | 0 | 20 |
| # DAYS LE 32 2 | 24 | 20 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 19 | 86 |
| # DAYS LE 0 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| **2. PRECIPITATION (INCHES)** | | | | | | | | | | | | | |
| MAXIMUM 3 | 8.2 | 7.5 | 9.1 | 7.1 | 8.1 | 15.3 | 12.6 | 16.6 | 8.2 | 6.9 | 8.6 | 8.2 | 72.8 |
| MEAN 3 | 3.1 | 3.0 | 3.9 | 3.3 | 3.6 | 3.4 | 4.2 | 4.5 | 3.5 | 3.0 | 3.4 | 3.6 | 42.5 |
| MINIMUM 3 | 0.3 | 1.1 | 1.1 | 0.4 | 0.6 | 0.7 | 0.8 | 0.9 | 0.4 | # | 0.3 | 0.5 | 22.8 |
| MAX 24 HR 3 | 2.2 | 2.7 | 2.7 | 2.6 | 3.2 | 3.7 | 5.4 | 9.0 | 3.5 | 4.1 | 5.7 | 2.8 | 9.0 |
| # DAYS GE .004 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| # DAYS GE .5 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 28 |
| **3. SNOWFALL (INCHES)** | | | | | | | | | | | | | |
| MEAN 3 | 5.4 | 6.2 | 2.2 | 0.2 | 0 | 0 | 0 | 0 | 0 | # | 0.6 | 2.1 | 16.7 |
| MAXIMUM 3 | 27.0 | 33.9 | 20.2 | 2.2 | 0 | 0 | 0 | 0 | 0 | # | 9.0 | 13.6 | 58.3 |
| MAX 24 HR 3 | 14.0 | 17.9 | 8.2 | 2.2 | 0 | 0 | 0 | 0 | 0 | # | 9.0 | 9.1 | 17.9 |
| # DAYS GE 0.1 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| # DAYS GE 1.5 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| **4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT ( F)** | | | | | | | | | | | | | |
| RH ( 5 LST) 1 | 70 | 71 | 72 | 73 | 80 | 82 | 84 | 86 | 84 | 80 | 76 | 71 | 77 |
| RH (15 LST) 1 | 57 | 54 | 52 | 52 | 56 | 55 | 56 | 59 | 58 | 54 | 56 | 57 | 56 |
| VAPOR PRESS 1 | .14 | .15 | .20 | .27 | .42 | .56 | .67 | .67 | .53 | .35 | .26 | .18 | .37 |
| DEWPOINT 1 | 23 | 24 | 31 | 40 | 52 | 60 | 66 | 66 | 59 | 47 | 38 | 27 | 44 |
| **5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)** | | | | | | | | | | | | | |
| PVLG DRCTN 1 | WNW | N | N | WNW | $SSW | $SSW | $SSW | $SSW | $N | $N | $W | $WNW | $N |
| MEAN SPEED (PVLG DRCTN) 1 | 11 | 8 | 8 | 10 | 8 | 7 | 6 | 6 | 6 | 7 | 7 | 10 | 8 |
| MEAN SPEED (ALL OBS) 1 | 7 | 7 | 8 | 7 | 6 | 6 | 5 | 5 | 5 | 6 | 7 | 7 | 6 |
| MAX PEAK GUST 1 | 59 | 69 | 74 | 51 | 54 | 58 | 62 | 52 | 60 | 51 | 51 | 61 | 74 |
| PRESSURE ALT 1 | 1059 | 1009 | 1209 | 809 | 609 | 509 | 409 | 309 | 859 | 609 | 659 | 809 | 1209 |
| **6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)** | | | | | | | | | | | | | |
| CLD COVER 1 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| DAYS TSTMS 1 | # | # | 2 | 3 | 5 | 6 | 9 | 7 | 3 | 1 | 1 | # | 36 |
| DAYS FOG LT 7 1 | 14 | 12 | 14 | 14 | 17 | 16 | 19 | 20 | 18 | 16 | 15 | 13 | 187 |
| DAYS BNBD LT 7 1 | 0 | 0 | # | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)**

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 19 | 19 | 19 | 17 | 18 | 11 | 12 | 12 | 16 | 15 | 17 | 16 | 16 |
| 03-05 LST | 20 | 20 | 21 | 19 | 23 | 18 | 20 | 20 | 21 | 19 | 20 | 17 | 20 |
| 06-08 LST | 21 | 22 | 23 | 21 | 24 | 20 | 24 | 27 | 27 | 23 | 23 | 18 | 23 |
| 09-11 LST | 19 | 20 | 20 | 18 | 21 | 15 | 12 | 13 | 17 | 15 | 19 | 18 | 17 |
| 12-14 LST | 18 | 19 | 18 | 15 | 17 | 9 | 7 | 9 | 13 | 10 | 15 | 16 | 14 |
| 15-17 LST | 18 | 18 | 17 | 13 | 14 | 7 | 6 | 8 | 11 | 10 | 14 | 16 | 13 |
| 18-20 LST | 18 | 18 | 16 | 15 | 15 | 8 | 6 | 8 | 10 | 11 | 14 | 17 | 13 |
| 21-23 LST | 17 | 19 | 17 | 16 | 16 | 9 | 9 | 9 | 11 | 13 | 16 | 16 | 14 |
| ALL HOURS | 18 | 19 | 18 | 16 | 18 | 12 | 12 | 13 | 15 | 14 | 17 | 16 | 16 |



Attachment 7
30 June 2008

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 15 | 15 | 15 | 13 | 14 | 9 | 10 | 10 | 11 | 12 | 13 | 12 | 13 |
| 03-05 LST | 16 | 17 | 17 | 16 | 19 | 16 | 19 | 17 | 17 | 15 | 14 | 13 | 16 |
| 06-08 LST | 17 | 19 | 18 | 17 | 21 | 17 | 21 | 24 | 22 | 19 | 18 | 14 | 19 |
| 09-11 LST | 16 | 18 | 15 | 13 | 15 | 10 | 7 | 9 | 11 | 11 | 14 | 13 | 13 |
| 12-14 LST | 15 | 15 | 14 | 10 | 11 | 6 | 3 | 5 | 6 | 6 | 10 | 12 | 9 |
| 15-17 LST | 14 | 13 | 13 | 9 | 9 | 4 | 4 | 4 | 5 | 6 | 9 | 11 | 8 |
| 18-20 LST | 14 | 13 | 13 | 10 | 11 | 7 | 5 | 5 | 6 | 7 | 9 | 12 | 9 |
| 21-23 LST | 14 | 15 | 13 | 12 | 12 | 8 | 7 | 7 | 8 | 10 | 12 | 12 | 11 |
| ALL HOURS | 15 | 15 | 14 | 12 | 14 | 9 | 9 | 10 | 10 | 10 | 12 | 12 | 12 |

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 12 | 12 | 12 | 11 | 11 | 7 | 5 | 5 | 8 | 9 | 10 | 10 | 9 |
| 03-05 LST | 12 | 14 | 14 | 13 | 15 | 11 | 10 | 10 | 11 | 12 | 11 | 10 | 12 |
| 06-08 LST | 12 | 16 | 14 | 13 | 15 | 12 | 11 | 14 | 14 | 14 | 13 | 10 | 13 |
| 09-11 LST | 11 | 14 | 12 | 10 | 10 | 6 | 4 | 4 | 5 | 8 | 10 | 10 | 9 |
| 12-14 LST | 11 | 11 | 10 | 7 | 7 | 3 | 1 | 2 | 3 | 5 | 7 | 9 | 6 |
| 15-17 LST | 11 | 9 | 10 | 6 | 6 | 3 | 2 | 2 | 2 | 4 | 7 | 9 | 6 |
| 18-20 LST | 11 | 10 | 10 | 7 | 8 | 4 | 2 | 3 | 3 | 5 | 7 | 9 | 7 |
| 21-23 LST | 12 | 11 | 10 | 9 | 9 | 5 | 3 | 3 | 5 | 7 | 9 | 9 | 8 |
| ALL HOURS | 11 | 12 | 11 | 9 | 10 | 6 | 4 | 5 | 6 | 8 | 9 | 9 | 8 |

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 2 |
| 03-05 LST | 2 | 4 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 4 | 3 | 2 | 3 |
| 06-08 LST | 3 | 4 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 4 | 4 | 3 | 3 |
| 09-11 LST | 2 | 3 | 2 | 1 | # | # | 0 | 0 | # | 1 | 2 | 1 | 1 |
| 12-14 LST | 2 | 2 | # | # | 0 | # | 0 | 0 | # | # | # | # | # |
| 15-17 LST | 1 | 1 | # | 0 | 0 | # | # | 0 | 0 | # | # | 1 | # |
| 18-20 LST | 2 | 2 | 1 | 1 | 1 | # | # | 0 | # | 1 | 1 | 1 | 1 |
| 21-23 LST | 3 | 3 | 2 | 1 | 1 | 1 | # | # | # | 1 | 2 | 2 | 1 |
| ALL HOURS | 2 | 2 | 1 | 1 | 1 | # | # | # | # | 1 | 2 | 1 | 1 |

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 0 | # | # | 1 | 2 | 1 | 3 | 1 | 1 | # | # | 0 | 1 |
| 03-05 LST | 0 | 0 | # | 1 | 1 | 1 | 1 | 1 | 0 | # | # | 0 | # |
| 06-08 LST | 0 | 0 | # | # | 1 | 1 | 1 | 1 | # | # | 0 | # | # |
| 09-11 LST | 0 | 0 | # | 1 | # | 1 | 1 | 1 | # | # | # | # | # |
| 12-14 LST | # | # | # | # | 1 | 1 | 3 | 1 | 1 | # | 0 | 0 | 1 |
| 15-17 LST | # | # | 1 | 1 | 2 | 2 | 4 | 3 | 2 | # | # | # | 1 |
| 18-20 LST | # | # | # | 2 | 4 | 4 | 5 | 4 | 2 | # | # | # | 2 |
| 21-23 LST | # | 0 | 1 | 1 | 3 | 3 | 4 | 3 | 1 | # | # | # | 1 |
| ALL HOURS | # | # | # | # | 1 | 1 | 2 | 2 | # | # | # | # | # |

12. % FREQ RAIN AND/OR DRIZZLE:

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 10 | 11 | 12 | 12 | 11 | 6 | 5 | 6 | 8 | 9 | 10 | 11 | 9 |
| 03-05 LST | 10 | 11 | 12 | 12 | 11 | 6 | 5 | 6 | 8 | 10 | 11 | 11 | 9 |
| 06-08 LST | 9 | 10 | 14 | 13 | 11 | 7 | 6 | 6 | 8 | 9 | 10 | 10 | 9 |
| 09-11 LST | 10 | 9 | 13 | 11 | 10 | 7 | 5 | 5 | 7 | 8 | 12 | 12 | 9 |
| 12-14 LST | 10 | 8 | 12 | 10 | 9 | 5 | 6 | 6 | 6 | 7 | 10 | 9 | 8 |
| 15-17 LST | 9 | 10 | 12 | 11 | 9 | 7 | 7 | 7 | 7 | 7 | 9 | 10 | 9 |
| 18-20 LST | 10 | 9 | 12 | 12 | 10 | 9 | 8 | 7 | 8 | 8 | 10 | 11 | 9 |
| 21-23 LST | 10 | 10 | 13 | 13 | 12 | 7 | 7 | 8 | 8 | 9 | 11 | 11 | 10 |
| ALL HOURS | 9 | 9 | 12 | 11 | 10 | 6 | 6 | 6 | 7 | 8 | 10 | 10 | 9 |

13. % FREQ SNOW AND/OR ICE PELLETS:

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 4 | 4 | 2 | # | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| 03-05 LST | 6 | 4 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| 06-08 LST | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| 09-11 LST | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | # | 1 | 2 | 1 |
| 12-14 LST | 5 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | # | # | 2 | 1 |
| 15-17 LST | 4 | 4 | 2 | # | 0 | 0 | 0 | 0 | 0 | 0 | # | 2 | 1 |
| 18-20 LST | 4 | 4 | 2 | # | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| 21-23 LST | 4 | 4 | 2 | # | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 |
| ALL HOURS | 4 | 4 | 2 | # | 0 | 0 | 0 | 0 | 0 | # | # | 2 | 1 |

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-02 LST | 3 | 3 | 3 | 1 | # | # | # | # | # | # | 1 | 2 | 1 |
| 03-05 LST | 2 | 3 | 2 | 1 | # | 0 | 0 | # | # | # | 1 | 2 | 1 |
| 06-08 LST | 2 | 3 | 3 | 1 | # | 0 | 0 | # | # | 1 | 1 | 3 | 1 |
| 09-11 LST | 5 | 5 | 7 | 4 | 2 | # | # | # | 1 | 2 | 4 | 5 | 3 |
| 12-14 LST | 7 | 7 | 9 | 7 | 2 | 1 | # | # | 1 | 2 | 5 | 7 | 4 |
| 15-17 LST | 6 | 5 | 7 | 6 | 2 | 1 | 1 | # | 1 | 1 | 3 | 4 | 3 |
| 18-20 LST | 4 | 2 | 3 | 2 | 1 | 1 | # | # | # | 1 | 1 | 3 | 2 |
| 21-23 LST | 4 | 3 | 3 | 2 | # | # | # | # | # | # | 1 | 2 | 1 |
| ALL HOURS | 4 | 4 | 4 | 3 | # | # | # | # | # | # | 2 | 3 | 2 |

SOURCE(S):
1. AFCCC DATSAV DATABASE, 7301-9612, TOTAL OBS USED 212250
2. INTERNATIONAL STATION METEOROLOGICAL CLIMATE SUMMARY, CD-ROM, V 4.0 (ISMCS V 4.0 INCLUDES GHCN V 1.0 DATA)
3. SUMMARY OF DAY DATA FOR DOVER AFB DELEWARE, POR: DEC 42-SEP 46, JUL 49-JUN 97

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE $ = % CALM GT PVLGN DRCTN
= BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING