USAFETAC/DS-90/213

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SURFACE OBSERVATION CLIMATIC SUMMARIES

FOR

LANGLEY AFB, VIRGINIA

Prepared by

OL-A, USAFETAC
ASHEVILLE, NORTH CAROLINA
28801-2723

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APRIL 1990

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13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.

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PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSWO (REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE OBSERVATION CLIMATIC SUMMARY). RUSSWOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SFCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSWO" AND THE "LISOCS." IT FINALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARIES" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.

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INTRODUCTION

STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: NOV 79 - OCT 89 (AIRWAYS).

SUMMARY OF DAY DATA: OCT 36 - OCT 89 (FULL TIME).

HOURS SUMMARIZED: 0000 LST THROUGH 2300 LST.

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/ OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44-73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SNOWFALL AMOUNT GREATER THAN A TRACE.

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUMBER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

PRECIPITATION: A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER EQUIVALENT.

STANDARD DEVIATION: A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

TIME CONVENTIONS: ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE FOLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

0000-0200	1200-1400
0300-0500	1500-1700
0600-0800	1800-2000
0900-1100	2100-2300

ABBREVIATIONS USED:

AMT	AMOUNT	LT	LESS THAN
ANN	ANNUAL	M	METER
BARO	BAROMETER	MB	MILLIBAR
C	CENTIGRADE (CELSIUS)	MPS	METERS PER SECOND
DEG	DEGREE	MSL	MEAN SEA LEVEL
DB	DRY BULB TEMPERATURE	MEAS	MEASURABLE
DP	DEW POINT TEMPERATURE	NO.	NUMBER
EQ	EQUAL	OBS	OBSERVATION
F	FAHRENHEIT	OBST	OBSTRUCTION
FRZG	FREEZING	POF	PERCENT OCCURRENCE FREQUENCY
FT	FEET	PRECIP	PRECIPITATION
GE	GREATER THAN OR EQUAL TO	SD	STANDARD DEVIATION
GMT	GREENWICH MEAN TIME	SOD	SUMMARY OF DAY
GT	GREATER THAN	TEMP	TEMPERATURE
HG	INCHES OF MERCURY	TSTM	THUNDERSTORM
HT	HEIGHT	VSBY	VISIBILITY
KTS	KNOTS	VSN	VISION
LE	LESS THAN OR EQUAL TO	WB	WET BULB TEMPERATURE
LST	LOCAL STANDARD TIME	WBAN	AWS FORM 10/10A
		UTC	*COORDINATED UNIVERSAL TIME

SUMMARY DESCRIPTION: A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

* UTC REPLACED GMT ON 1 AUGUST 1988

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FLD ELEV (FT)	CALL SIGN	WMO NMBR
745980	LANGLEY AFB/HAMPTON, VA	N 37 05	W 076 22	11	LFI	74598

STATION LOCATION AND INSTRUMNTATION HISTORY

Nmbr of Loc	GEOGRAPHICAL LOCATION & NAME	Type of Station	At This Location From	At This Location To	LATITUDE	LONGITUDE	Elev Above MSL FLD (FT)	Elev Above MSL BARO (FT)	OBS PER DAY
1	Langley Field/Hampton, VA	AAF	Mar 46	May 48	N 37 05	W 076 21	5	9	24
2	Langley AFB/Hampton, VA	AFB	Jun 48	Jan 58	Same	Same	10	12	24
3	Same	Same	Feb 58	Nov 73	Same	Same	Same	31	24
4	Same	Same	Dec 73	Nov 78	Same	W 076 22	Same	13	24
5	Same	Same	Dec 78	Feb 79	Same	W 076 21	Same	Same	24
6	Same	Same	Mar 79	Jan 88	Same	W 076 22	11	10	24

Nmbr of Loc	Date of Change	SURFACE WIND EQUIPMENT INFORMATION: LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1	Mar 46	Atop control tower	Selsyn	ML-144D	80 ft	
2	May 54	Atop BaseOps building	Same	ML-144A	74 ft	
3	Apr 55	Atop Hangar 5336	Same	Same	96 ft	
4	Mar 60	830'N of rwy07/25	AN/GMQ-11	RO-2	13 ft	
5	Mar 61	1000'NW intersection rwy 07/25	Same	Same	Same	
6	May 65	1.900'NNW TD pt rwy 25	Same	Same	Same	
		2.900'SE TD pt rwy 07	Same		Same	
7	Mar 70	1.850'NE TD pt rwy 25	AN/GMQ-20	RO-362	13 ft	
		2.800'SSE TD pt rwy 07	Same		13 ft	
8	Jan 88	1.850'NE TD pt rwy 26	Same	Same	22 ft	
		2.800'SSE TD pt rwy 08	Same		21 ft	

```
PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT              AAAAAA
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT             AAAAAAAA
PP      PP     AA      AA   RR      RR        TT                AA      AA
PP      PP     AA      AA   RR      RR        TT                AA      AA
PPPPPPPPP      AA      AA   RRRRRRRRR         TT                AA      AA
PPPPPPPP       AAAAAAAAAA   RRRRRRRR          TT                AAAAAAAAAA
PP             AAAAAAAAAA   RR    RR          TT                AAAAAAAAAA
PP             AA      AA   RR     RR         TT                AA      AA
PP             AA      AA   RR      RR        TT                AA      AA
PP             AA      AA   RR       RR       TT                AA      AA
```

PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBIATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO ISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).
THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.
THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.

SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.

NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		12.0	.2	1.4		13.7	17.6	3.7	.5		35.5	930
03-05		10.8	.3	1.8		12.9	18.5	2.6			34.0	930
06-08		11.3	5	2.6		14.4	21.5	4.7	.2		40.9	930
09-11		11.7	.5	3.0		15.3	22.8	8.1	.1		46.2	930
12-14		10.9	.5	2.5		13.9	17.8	6.2	.2		38.2	930
15-17		8.6	.3	2.0		11.0	17.5	5.2			33.7	930
18-20	.1	9.7	.3	2.7		12.7	17.4	3.3			33.4	930
21-23	.1	11.4	.3	1.8		13.5	17.2	2.8	.2		33.8	930
ALL HOURS	.0	10.8	.4	2.2		13.4	18.8	4.6	.2		36.9	7440

MONTH: FEB

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		11.0	.1	3.3		14.4	20.8	2.4	.6		38.2	849
03-05	.1	11.3		2.1		13.4	25.3	2.7			41.5	849
06-08	.2	11.1		1.9		13.0	29.1	4.6	.4		47.0	849
09-11		12.4		3.1		15.4	21.1	9.4	.5		46.4	849
12-14	.2	13.0		3.4		16.4	16.8	5.5	.4		39.1	849
15-17	.1	13.0	.1	3.4		16.5	16.7	5.7	.6		39.5	849
18-20	.1	13.0	.1	3.7		16.7	18.0	4.8	.4		39.9	849
21-23	.1	13.2		4.2		17.4	19.2	3.1	.2		39.9	849
ALL HOURS	.1	12.2	.0	3.1		15.4	20.9	4.8	.4		41.4	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.5	11.0	.1	1.2		12.3	14.8	2.5	.6		30.2	930
03-05	.1	11.4	.2	1.3		12.9	17.7	1.8	.6		33.1	930
06-08	.2	10.9	.6	1.2		12.7	21.2	6.0	1.0		40.9	930
09-11		11.6	.5	1.5		13.7	15.7	5.9	.9		36.1	930
12-14	.2	12.9	.2	1.6		14.7	11.9	6.0	.6		33.3	930
15-17	.8	11.3	.3	1.3		12.9	13.0	5.2	.6		31.7	930
18-20	1.0	11.8		1.2		13.0	13.8	3.5	.6		31.0	930
21-23	1.5	12.8	.3	1.3		14.4	14.4	2.3	.8		31.8	930
ALL HOURS	.5	11.7	.3	1.3		13.3	15.3	4.2	.7		33.5	7440

MONTH: APR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.2	10.2		.1		10.3	14.6	3.1			28.0	900
03-05	.4	8.7		.4		9.1	17.6	3.4			30.1	900
06-08	.2	8.2		.4		8.7	22.8	9.1			40.6	900
09-11	.2	8.8		.2		.0	14.2	6.8			30.0	900
12-14	.4	8.3				8.3	7.6	7.4			23.3	900
15-17	.9	10.0		.3		10.3	7.7	9.9		.6	28.4	900
18-20	1.9	11.9		.3		12.2	11.6	8.9		.3	33.0	900
21-23	2.3	10.7				10.7	12.2	3.7		.2	26.8	900
ALL HOURS	1.0	9.6		.2		9.8	13.5	6.5		.1	30.0	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.4	9.6				9.6	13.3	7.0			29.9	930
03-05	.9	10.0				10.0	24.5	9.7			44.2	930
06-08	.8	9.2				9.2	28.5	18.6			56.3	930
09-11	.8	7.0				7.0	12.4	18.3			37.6	930
12-14	.8	5.7				5.7	6.8	17.3			29.8	930
15-17	3.0	7.7			.1	7.8	6.2	22.0		.1	36.2	930
18-20	3.9	9.5				9.5	9.8	17.3			36.6	930
21-23	2.0	9.0				9.0	9.6	9.4			28.0	930
ALL HOURS	1.7	8.5			.0	8.5	13.9	14.9		.0	37.3	7440

MONTH: JUN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.6	4.1				4.1	9.9	16.7			30.7	900
03-05	.7	2.7				2.7	19.8	19.7			42.1	900
06-08	.3	4.8				4.8	21.0	32.1			57.9	900
09-11	.2	3.1				3.1	5.1	29.6			37.8	900
12-14	1.0	3.3				3.3	1.2	28.7			33.2	900
15-17	2.8	4.7				4.7	1.8	29.4			35.9	900
18-20	5.7	7.4				7.4	4.1	26.7			38.2	900
21-23	3.6	6.3				6.3	5.2	15.3			26.9	900
ALL HOURS	2.0	4.6				4.6	8.5	24.8			37.8	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.8	5.3				5.3	9.9	23.9			39.0	930
03-05	.8	4.0				4.0	19.6	28.6			52.2	930
06-08	.5	3.5				3.5	26.0	42.7			72.3	930
09-11	.6	3.0				3.0	7.5	41.2			51.7	930
12-14	1.4	4.8				4.8	3.3	42.2			50.3	930
15-17	4.0	7.4				7.4	3.0	42.5			52.9	930
18-20	4.5	8.4				8.4	5.4	37.2			51.0	930
21-23	3.1	5.6				5.6	6.0	26.2			37.8	930
ALL HOURS	2.1	5.3				5.3	10.1	35.6			50.9	7440

MONTH: AUG

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	1.8	6.1				6.1	13.8	22.9			42.8	930
03-05	1.0	5.2				5.2	25.4	24.4			54.9	930
06-08	.6	5.8				5.8	34.8	36.7			77.3	930
09-11	.1	5.1				5.1	12.9	38.2			56.1	930
12-14	1.2	5.3				5.3	5.6	37.4			48.3	930
15-17	3.7	7.1				7.1	4.8	37.1			49.0	930
18-20	3.4	6.5				6.5	7.0	33.0			46.5	930
21-23	2.0	7.7				7.7	8.9	25.1			41.7	930
ALL HOURS	1.7	6.1				6.1	14.2	31.8			52.1	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.3	5.8				5.8	14.1	12.7			32.6	900
03-05	.3	6.2				6.2	21.4	13.1			40.8	900
06-08	.1	6.3				6.3	37.1	24.7			68.1	900
09-11	.2	6.1				6.1	12.4	25.0			43.6	900
12-14		6.2				6.2	4.9	21.8			32.9	900
15-17	.9	7.6				7.6	6.7	20.4			34.7	900
18-20	.7	8.6				8.6	10.2	18.1			36.9	900
21-23	1.0	8.1				8.1	11.3	13.2			32.7	900
ALL HOURS	.4	6.9				6.9	14.8	18.6			40.3	7200

MONTH: OCT

00-02	.1	7.5				7.5	15.8	5.6			28.9	930
03-05	.2	7.0				7.0	21.5	6.0			34.5	930
06-08	.1	8.8				8.8	31.5	12.7			53.0	930
09-11		6.2				6.2	13.3	12.7			32.3	930
12-14		6.7				6.7	7.7	8.2			22.6	930
15-17	.2	8.3				8.3	9.1	8.3			25.7	930
18-20	.4	7.3				7.3	8.9	7.1			23.4	928
21-23	.6	8.1				8.1	12.2	6.7			27.0	927
ALL HOURS	.2	7.5				7.5	15.0	8.4			30.9	7435

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.1	10.0				10.0	18.0	4.8			32.8	900
03-05	.2	9.6				9.6	21.4	3.4			34.4	900
06-08		10.4				10.4	27.6	7.9			45.9	900
09-11	.1	9.7				9.7	18.6	11.2			39.4	900
12-14		10.1				10.1	11.1	7.8			29.0	900
15-17		9.4		.2		9.7	12.2	7.3			29.2	900
18-20		11.4		.3		11.8	12.7	4.6			29.0	900
21-23	.1	10.0		.3		10.3	14.2	5.2			29.8	900
ALL HOURS	.1	10.1		.1		10.2	17.0	6.5			33.7	7200

MONTH: DEC

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		9.7		.4		10.1	16.1	3.4			29.7	930
03-05		11.5		.6		12.2	17.8	2.6			32.6	930
06-08		12.0		1.1		13.1	21.4	4.1			38.6	930
09-11	.1	11.1		2.2		13.2	21.1	6.6			40.9	930
12-14		10.4		1.7		12.2	14.0	4.4			30.5	930
15-17		10.5		1.0		11.5	14.8	4.6			31.0	930
18-20	.2	9.7	.1	.5		10.3	15.4	3.9			29.6	930
21-23		10.1		.1		10.2	14.9	3.5			28.7	930
ALL HOURS	.0	10.6	.0	1.0		11.6	16.9	4.1			32.7	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.0	10.8	.4	2.2		13.4	18.8	4.6	.2		36.9	7440
FEB	.1	12.2	.0	3.1		15.4	20.9	4.8	.4		41.4	6792
MAR	.5	11.7	.3	1.3		13.3	15.3	4.2	.7		33.5	7440
APR	1.0	9.6		.2		9.8	13.5	6.5		.1	30.0	7200
MAY	1.7	8.5			.0	8.5	13.9	14.9		.0	37.3	7440
JUN	2.0	4.6				4.6	8.5	24.8			37.8	7200
JUL	2.1	5.3				5.3	10.1	35.6			50.9	7440
AUG	1.7	6.1				6.1	14.2	31.8			52.1	7440
SEP	.4	6.9				6.9	14.8	18.6			40.3	7200
OCT	.2	7.5				7.5	15.0	8.4			30.9	7435
NOV	.1	10.1		.1		10.2	17.0	6.5			33.7	7200
DEC	.0	10.6	.0	1.0		11.6	16.9	4.1			32.7	7440
ANNUAL	.8	8.6	.1	.7	.0	9.3	14.9	13.8	.1	.0	38.1	87667

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 4901-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.8	40.4	2.4	13.5		45.6	43.0	39.7	1.9		66.3	1271
FEB	2.3	43.2	1.6	11.9	.3	47.7	43.6	39.1	1.6		65.9	1157
MAR	6.7	46.8	.6	6.4	.6	48.6	40.6	35.7	.6		64.4	1270
APR	10.8	47.5	.1	.7	.4	47.5	36.5	39.5			64.8	1230
MAY	17.5	46.8			.6	46.8	45.2	50.1		.1	72.0	1271
JUN	20.9	42.0			.3	42.0	43.0	58.4			76.5	1230
JUL	29.1	47.9			.2	47.9	46.6	63.5			80.4	1270
AUG	22.7	44.8			.2	44.8	51.1	64.7		.1	82.5	1271
SEP	9.9	35.7				35.7	49.7	52.7			71.1	1229
OCT	4.3	35.4		.1	.1	35.4	48.8	42.7			66.4	1270
NOV	2.4	39.6		2.6		40.2	43.3	42.5	.1		67.5	1200
DEC	1.4	39.1	.6	6.9		41.4	41.2	37.4	.		62.1	1239
ANNUAL	10.8	42.4	.4	3.5	.2	43.6	44.4	47.2	.4	.0	70.0	14908

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
00-02			.5	1.2	1.4	1.6	1.8	1.8	.3	.1	.1	
03-05		.1	.1	.4	.9	.7	.8	1.0	.3	.2	.2	
06-08		.2	.2	.2	.8	.3	.5	.6	.1	.1		
09-11				.2	.8	.2	.6	.1	.2		.1	.1
12-14		.2	.2	.4	.8	1.0	1.4	1.2				
15-17		.1	.8	.9	3.0	2.8	4.0	3.7	.9	.2		
18-20	.1	.1	1.0	1.9	3.9	5.7	4.5	3.4	.7	.4		.2
21-23	.1	.1	1.5	2.3	2.0	3.6	3.1	2.0	1.0	.6	.1	
ALL HOURS	.0	.1	.5	1.0	1.7	2.0	2.1	1.7	.4	.2	.1	.0
TOTAL OBS	7440	6792	7440	7200	7440	7200	7440	7440	7200	7435	7200	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS			50.0				50.0	2
LIQUID PRECIP	7.9		47.4	5.8	8.3	11.2	19.4	810
FREEZING PRECIP			69.0		6.9		24.1	29
FROZEN PRECIP	5.8		36.8	3.5	4.1	6.4	43.3	171
FOG	13.9		35.2	3.5	6.1	13.7	27.6	1388
FOG WITH VIS GE 1/2 MILES	13.4		35.6	3.6	6.1	13.9	27.4	1290
TOTAL OBS	949	0	2325	210	407	1435	2114	7440

MONTH: FEB HOURS: ALL

TSTMS	12.5			12.5	12.5	50.0	12.5	8
LIQUID PRECIP	5.8		54.3	4.9	10.8	9.2	15.0	834
FREEZING PRECIP			100.0					3
FROZEN PRECIP	8.6		70.5	2.3	1.8	2.7	14.1	220
FOG	14.3		46.9	5.0	7.9	9.9	16.1	1400
FOG WITH VIS GE 1/2 MILES	13.6		47.4	4.5	7.8	9.9	16.8	1276
TOTAL OBS	746	0	2269	307	731	1179	1560	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS	5.0		30.0	2.5	12.5	25.0	25.0	40
LIQUID PRECIP	4.0		43.8	9.8	15.8	10.6	16.1	841
FREEZING PRECIP			100.0					22
FROZEN PRECIP			88.8	1.0			10.2	98
FOG	10.1		40.2	9.1	12.4	10.6	17.6	1136
FOG WITH VIS GE 1/2 MILES	9.2		41.5	8.6	12.1	10.6	18.1	1058
TOTAL OBS	614	0	2246	507	1019	1380	1674	7440

MONTH: APR HOURS: ALL

TSTMS	5.8		20.3	10.1	23.2	21.7	18.8	69
LIQUID PRECIP	5.4		39.7	9.3	17.2	12.4	16.0	645
FREEZING PRECIP								
FROZEN PRECIP	23.5		41.2		11.8	5.9	17.6	17
FOG	13.4		41.0	8.6	14.1	10.3	12.6	970
FOG WITH VIS GE 1/2 MILES	13.3		40.0	8.6	14.2	10.8	13.1	923
TOTAL OBS	760	0	1617	639	1117	1460	1607	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC HENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS	11.1		15.9	7.1	27.8	17.5	20.6	126
LIQUID PRECIP	5.5		378	9.8	18.3	16.4	12.2	542
FREEZING PRECIP								
FROZEN PRECIP								
FOG	17.8		28.3	9.8	19.2	14.4	10.5	1030
FOG WITH VIS GE 1/2 MILES	17.6		28.5	9.1	19.6	14.5	10.7	996
TOTAL OBS	901	0	1502	671	1222	1923	1221	7440

MONTH: JUN HOURS: ALL

TSTMS	4.9		14.1	8.5	19.0	29.6	23.9	142
LIQUID PRECIP	6.2		31.4	9.9	14.0	27.3	11.2	242
FREEZING PRECIP								
FROZEN PRECIP								
FOG	21.0		14.2	5.6	12.2	29.7	17.3	606
FOG WITH VIS GE 1/2 MILES	20.9		14.1	5.6	12.3	29.8	17.4	604
TOTAL OBS	816	0	1127	628	1102	2240	1287	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS	3.2		14.1	6.4	20.5	28.2	27.6	156
LIQUID PRECIP	8.5		23.2	8.5	14.4	28.5	16.9	284
FREEZING PRECIP								
FROZEN PRECIP								
FOG	24.8		11.5	4.3	8.9	28.9	21.5	729
FOG WITH VIS GE 1/2 MILES	24.8		11.5	4.3	8.9	28.9	21.5	729
TOTAL OBS	1051	0	1062	531	998	2423	1375	7440

MONTH: AUG HOURS: ALL

TSTMS	10.1		16.3	3.9	24.0	24.0	21.7	129
LIQUID PRECIP	6.8		42.0	14.1	9.8	16.0	11.4	369
FREEZING PRECIP								
FROZEN PRECIP								
FOG	28.8		19.0	5.0	7.2	21.4	18.6	1026
FOG WITH VIS GE 1/2 MILES	28.6		19.1	5.0	7.3	21.6	18.4	1019
TOTAL OBS	1238	0	1662	663	964	1869	1044	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS	3.1		25.0	6.3	15.6	18.8	31.3	32
LIQUID PRECIP	6.1		49.3	12.9	9.3	8.9	13.5	473
FREEZING PRECIP								
FROZEN PRECIP								
FOG	29.6		27.0	8.4	7.2	15.4	12.4	1029
FOG WITH VIS GE 1/2 MILES	29.4		27.2	8.4	7.2	15.4	12.4	1022
TOTAL OBS	1281	0	2059	787	633	1455	985	7200

MONTH: OCT HOURS: ALL

TSTMS	18.8		6.3	12.5		31.3	31.3	16
LIQUID PRECIP	5.5		49.5	14.9	9.9	7.5	12.7	545
FREEZING PRECIP								
FROZEN PRECIP								
FOG	28.7		29.0	6.9	8.7	14.6	12.1	1108
FOG WITH VIS GE 1/2 MILES	25.7		30.3	7.3	9.0	15.2	12.5	1051
TOTAL OBS	1229	0	2295	425	565	1497	1424	7435

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS			20.0		20.0	60.0		5
LIQUID PRECIP	3.6		45.1	11.9	13.0	8.1	18.3	725
FREEZING	PRECIP							
FROZEN PRECIP							100.0	9
FOG	22.0		33.9	7.0	9.6	11.8	15.8	1216
FOG WITH VIS GE 1/2 MILES	18.7		35.6	7.2	10.1	11.5	16.8	1105
TOTAL OBS	1079	0	1864	325	647	1580	1705	7200

MONTH: DEC HOURS: ALL

TSTMS			66.7			33.3		3
LIQUID PRECIP	7.0		41.0	8.0	7.6	17.8	18.7	788
FREEZING PRECIP			100.0					1
FROZEN PRECIP	1.4		76.4			1.4	20.8	72
FOG	18.6		35.5	4.1	7.0	14.0	20.8	1252
FOG WITH VIS GE 1/2 MILES	17.8		36.6	4.3	6.5	13.3	21.5	1187
TOTAL OBS	965	0	1926	227	405	1842	2075	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTHS: ALL

PHENOMENA	CALM	VARIABLE	341 - 060	061 - 100	101 - 189	190 - 240	241 - 340	NO OF OBS
TSTMS	6.9		16.8	6.7	21.0	25.1	23.5	728
LIQUID PRECIP	5.8		43.9	9.5	12.2	12.9	15.7	7098
FREEZING PRECIP			83.6		3.6		12.7	55
FROZEN PRECIP	5.8		62.5	2.0	2.2	3.2	24.2	587
FOG	19.8		31.9	6.4	9.8	15.1	17.1	12890
FOG WITH VISGE 1/2 MILES	19.0		32.2	6.3	9.8	15.3	17.4	12260
TOTAL OBS	11629	0	21954	5920	9810	20283	18071	87667

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          BBBBBBBBB
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT          BBBBBBBBBB
PP      PP    AA      AA    RR      RR        TT              BB       BB
PP      PP    AA      AA    RR      RR        TT              BB       BB
PPPPPPPPP     AA      AA    RRRRRRRRR         TT              BBBBBBBBBB
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT              BBBBBBBBBB
PP            AAAAAAAAAA    RR    RR          TT              BB       BB
PP            AA      AA    RR     RR         TT              BB       BB
PP            AA      AA    RR      RR        TT              BBBBBBBBBB
PP            AA      AA    RR       RR       TT              BBBBBBBBB
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PART B

PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH NO AMOUNTS, PERCENT OF DAYS WITH TRACES, AND PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOWFALL RESPECTIVELY. THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE OBSERVATIONS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. INCOMPLETE MONTHS/YEARS ARE NOT INCLUDED IN STATISTICAL COMPUTATIONS. NOTE: LEAST AMOUNTS ARE DERIVED FROM COMPLETE MONTHS/YEARS ONLY. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH.

DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEAR-MONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (*) INDICATES A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH, AND "0" MEANS NO SNOW DEPTH FOR THE MONTH.

SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE THE YEAR. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST) MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A (OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT. THIS SUMMARY IS NOT PROVIDED WHEN NO SNOWFALL OCCURS DURING THE GIVEN POR.

NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.

NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN FIVE (5) OR MORE SETS OF COMPLETE MONTHS ARE AVAILABLE.

NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.

NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.

NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HAIL.

NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

AIR FORCE		NAVY AND NATIONAL WEATHER SERVICE	
THROUGH 1945:	0800 LST	THROUGH JUN 1952:	0030 GMT
JAN 1946 TO MAY 1957:	1230 LST	JUN 1952 TO MAY 1957:	1230 GMT
JUN 1957 TO PRESENT:	1200 GMT	JUN 1957 TO PRESENT:	1200 GMT

CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS
- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3802-8910
MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	54.8	53.3	52.2	53.5	54.0	56.7	51.8	56.1	64.2	65.1	59.7	58.9	56.7
TRACE	13.1	12.7	14.3	15.7	14.5	14.0	13.9	13.6	11.2	10.8	12.2	12.2	13.2
.01	2.0	2.3	2.9	2.2	1.9	1.7	2.2	3.1	2.1	1.7	2.5	1.7	2.2
.02-.05	5.4	5.6	5.2	6.0	5.5	4.4	6.2	4.8	4.0	4.4	4.8	5.4	5.1
.06-.10	4.2	3.8	4.6	3.9	3.9	3.1	3.3	2.7	2.6	3.4	3.2	3.7	3.5
.11-.25	7.3	6.6	6.5	7.1	6.6	6.6	6.6	5.1	4.0	4.6	5.6	5.3	6.0
.26-.50	6.4	6.7	5.7	5.1	5.7	5.9	6.3	5.2	3.8	3.1	4.9	5.5	5.4
.51-1.00	4.4	6.3	5.3	4.3	4.8	4.4	4.8	4.7	4.1	3.8	4.7	5.3	4.7
1.01-2.50	2.3	2.8	3.1	2.1	3.0	2.6	4.2	3.8	3.0	2.9	2.2	1.9	2.8
2.51-5.00	.1		.2	.1	.2	.4	.7	.9	.9	.2	.2	.1	.3
5.01-10.00						.1			.2				.0
10.01-20.00													
OVER 20.00													
DAYS WITH MEAS AMTS	32.1	34.1	33.5	30.8	31.6	29.3	34.3	30.3	24.6	24.1	28.1	28.8	30.1
TOTAL NO. OF OBSERVATIONS	1581	1462	1604	1557	1610	1558	1610	1612	1560	1612	1530	1578	18874

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3802-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
38		.94*	.60*	2.92	3.55	6.61	5.04	2.39	5.55	2.25	1.85	.88	32.58*
39	2.90	6.06	4.06	4.34	1.43	4.95	7.30	8.76	.16	4.19	2.85	.69	47.69
40	1.70	2.85	1.90	4.61	3.42	.74	5.02	9.49	3.64	2.90	5.49	1.72	43.48
41	2.59	2.60	2.17	2.70	1.05	5.45	4.58	2.88	1.49	.73	1.33	2.32	29.89
42	3.03	1.47	5.40	.53	1.16	3.11	3.92	7.26	5.37	4.90	.59	3.47	40.21
43	3.22	2.39	3.10	2.45	4.20	5.01	4.88	1.34	6.68	5.86	1.09	1.45	41.67
44	4.61	5.33	6.76	2.38	1.15	.82	2.96	3.89	5.69	2.28	3.80	2.22	41.89
45	1.77	4.90	1.20	3.60	3.46	5.81	12.52	2.78	3.03	2.93	2.46	4.85	49.31
46	2.21	3.05	1.55	2.08	7.67	2.47	3.68	3.04	4.52	1.25	1.85	.85	34.22
47	2.85	.31	.95	3.95	1.48	2.86	1.66	1.33	7.12	3.04	6.88	2.28	34.71
48	3.23	3.63	2.38	4.69	13.03	2.60	2.75	6.17	2.66	2.56	5.23	4.03	52.96
49	1.10	5.30	2.27	.72	3.89	1.53	8.04	8.13	2.98	1.84	2.19	2.02	40.01
50	2.34	1.45	2.53	2.01	2.21	2.22	3.59	9.24	5.37	2.13	1.82	2.26	37.17
51	1.27	2.16	3.21	2.00	1.32	4.86	1.40	3.18	.63	3.63	5.88	2.94	32.48
52	6.50	4.98	4.32	2.19	2.69	1.40	4.85	2.64	2.96	1.66	5.30	2.83	42.32
53	1.58	4.15	3.55	4.23	2.11	3.10	1.71	5.70	5.72	.52	3.21	3.00	38.58
54	5.18	2.54	4.62	2.45	7.27	.36	7.50	2.04	3.41	3.66	2.08	2.79	43.90
55	2.94	2.75	4.19	2.71	1.63	3.74	1.70	8.93	6.43	1.79	1.94	1.59	40.34
56	2.68	5.01	2.50	2.17	2.72	2.52	7.35	4.05	1.99	6.45	1.57	2.49	41.50
57	4.01	4.39	5.31	3.01	1.39	2.22	1.66	6.15	4.59	2.96	4.89	4.03	44.61
58	4.02	3.53	6.76	3.59	5.17	5.11	4.86	7.13	.64	4.72	1.95	4.24	51.72
59	1.97	1.97	3.30	5.51	1.04	1.55	10.89	.83	5.62	7.51	2.34	2.44	44.97
60	3.64	3.20	3.45	1.51	5.34	2.42	5.12	9.19	4.59	2.93	.72	1.98	44.09
61	3.15	4.90	4.30	1.84	8.20	5.10	1.23	4.84	1.73	5.40	1.44	4.39	46.52
62	4.21	2.66	3.39	3.20	2.38	5.95	9.55	3.39	4.35	5.08	4.81	2.84	51.81
63	2.90	3.33	3.42	.85	2.44	10.26	1.41	3.78	5.90	.35	5.02	2.84	42.50
64	3.46	4.98	2.69	2.47	2.17	1.57	2.56	3.74	10.03	3.64	1.81	3.46	42.58
65	2.53	1.80	3.51	2.50	.44	5.91	6.68	3.03	1.08	1.22	.29	.74	29.73
66	3.82	4.04	1.67	2.68	5.58	5.14	5.39	7.15	6.31	1.15	.98	3.36	47.27
67	2.89	3.89	1.86	1.11	4.03	1.20	5.89	10.62	3.25	1.44	1.99	6.19	44.36
68	3.23	1.26	4.31	2.61	3.81	4.82	2.70	1.42	2.43	2.97	3.23	2.88	35.67
69	3.21	3.75	4.59	3.05	1.88	4.99	7.21	3.87	3.29	1.42	2.37	4.86	44.49
70	2.77	4.49	4.26	4.72	1.83	2.83	6.32	4.37	2.56	1.15	2.69	3.96	41.95

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3802-8910
MONTH: ALL OURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	4.22	3.95	3.12	2.38	7.04	2.30	5.31	5.42	6.28	12.49	2.38	2.50	57.39
72	3.68	4.20	3.24	3.54	3.57	6.09	5.09	3.65	11.49	5.05	6.25	5.19	61.04
73	3.48	3.05	5.38	3.37	3.69	8.97	3.59	9.47	2.40	3.30	2.01	7.53	56.24
74	4.84	4.15	5.51	3.13	3.28	5.00	4.77	5.82	4.91	1.63	1.11	3.21	47.36
75	6.06	5.18	10.94	4.20	3.29	1.66	10.53	5.67	9.65	3.49	2.46	4.09	67.22
76	4.44	.78	2.97	.62	4.10	2.76	4.55	1.39	6.85	3.59	1.55	3.32	36.92
77	3.73	3.06	4.77	1.55	4.00	2.27	5.71	3.88	1.44	5.33	4.61	3.41	43.76
78	4.76	1.33	7.21	3.93	6.22	3.57	3.39	2.25	1.59	2.28	4.07	3.19	43.79
79	6.13	4.77	4.62	5.79	8.64	3.83	3.53	5.57	14.68	2.60	6.51	.45	67.12
80	4.26	2.87	5.00	2.23	3.38	.56	1.85	4.48	1.01	4.28	1.88	1.78	33.58
81	.72	2.20	2.02	3.11	3.75	6.52	6.56	7.57	4.92	3.59	1.79	5.72	48.47
82	3.52	5.34	4.00	2.17	2.29	6.67	2.54	4.08	3.18	3.88	3.83	5.32	46.82
83	1.61	5.92	4.11	8.38	3.65	2.13	2.25	2.25	5.09	4.89	3.67	6.91	50.86
84	3.39	3.88	4.65	4.68	5.56	3.14	7.07	.53	.94	.65	2.30	2.12	38.91
85	4.29	3.79	3.62	.46	3.70	3.30	8.52	1.17	6.88	1.98	6.05	1.10	44.86
86	1.59	2.73	1.05	1.32	1.05	1.03	2.15	7.75	.54	1.53	2.16	4.80	27.70
87	8.43	2.50	3.50	3.17	3.61	7.54	3.71	2.70	3.44	1.26	4.82	3.42	48.10
88	2.59	3.78	2.95	4.09	6.80	3.21	3.67	3.65	3.54	3.32	4.67	.57	42.84
89	2.41	5.83	8.65	5.82	3.05	4.24	3.80	8.37	5.43	3.75			51.35*

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3802-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
LEAST	.72	.31	.95	.46	.44	.36	1.23	.53	.16	.35	.29	.45	27.70
GREATEST	8.43	6.06	10.94	8.38	13.03	10.26	12.52	10.62	14.68	12.49	6.88	7.53	67.22
MEAN	3.36	3.50	3.86	2.99	3.69	3.73	4.82	4.78	4.35	3.18	3.02	3.09	44.15
MEDIAN	3.22	3.63	3.51	2.71	3.44	3.18	4.68	3.97	4.00	2.95	2.37	2.88	43.78
SD	1.453	1.405	1.888	1.528	2.393	2.190	2.621	2.697	2.886	2.090	1.736	1.619	8.383
TOTAL OBS	1581	1462	1604	1557	1610	1558	1610	1612	1560	1612	1530	1578	18874

THE GREATEST VALUE OF 14.68 OCCURRED ON 09/79

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3802-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
38		.73*	.59*	1.23	1.43	1.80	2.87	2.01	1.97	.67	.72	.40	2.87*
39	.98	1.25	.99	.87	.59	1.60	1.99	3.04	.15	1.55	1.04	.33	3.04
40	.56	.71	.81	1.79	.92	.27	1.41	2.81	1.69	1.59	2.00	.77	2.81
41	1.15	1.00	.97	1.27	.29	1.48	1.28	1.42	.88	.58	1.11	.84	1.48
42	.62	.59	1.40	.44	.79	.91	.93	1.50	1.82	1.06	.25	.60	1.82
43	1.07	.88	.96	1.93	1.94	1.40	1.15	.75	3.54	2.20	.47	1.26	3.54
44	2.65	1.01	1.90	.71	.60	.64	.84	1.21	1.70	1.66	1.30	.83	2.65
45	.58	1.33	.70	1.18	.90	3.41	2.90	1.26	1.17	1.77	1.13	1.24	3.41
46	.67	1.17	.64	1.13	1.26	.44	1.78	1.14	1.85	.50	.53	.77	1.85
47	.76	.25	.25	1.60	.74	.65	1.02	.65	2.44	.87	4.66	.84	4.66
48	.90	1.42	.87	1.25	4.43	1.13	1.00	2.48	.94	2.05	.65	1.58	4.43
49	.54	1.54	.59	.32	1.37	.49	2.71	2.49	1.03	.93	1.44	.51	2.71
50	.95	.31	.63	.85	.56	1.03	1.05	2.69	3.57	.70	.80	.68	3.57
51	.57	.57	1.08	.78	.47	1.16	.40	1.35	.36	1.26	1.61	.86	1.61
52	2.34	1.00	1.32	.88	.71	.65	1.48	.49	1.75	.89	2.82	1.14	2.82
53	.27	1.41	1.11	1.41	.57	1.59	.88	1.92	2.35	.20	1.10	.72	2.35
54	1.40	2.32	1.90	1.07	1.73	.24	3.57	.64	2.12	1.80	.53	.67	3.57
55	1.54	.76	.89	.93	.86	.71	1.20	4.80	2.32	.63	.67	.86	4.80
56	.81	1.27	1.34	.55	.67	1.58	1.37	1.37	.86	1.92	.50	.46	1.92
57	.96	.93	1.29	1.57	.68	1.12	.92	3.39	.96	1.86	1.14	1.83	3.39
58	1.29	1.05	2.79	1.48	2.22	1.18	1.43	2.58	.60	2.58	.55	1.20	2.79
59	.69	.83	.80	2.04	.45	.99	3.11	.45	3.83	2.47	.85	.68	3.83
60	1.06	1.28	1.81	.66	1.39	.88	2.97	3.97	3.38	1.09	.21	1.22	3.97
61	1.07	1.81	1.08	.68	2.52	1.65	.30	1.84	.90	2.20	.51	1.07	2.52
62	1.18	.61	1.56	1.16	.66	1.80	2.68	.99	2.03	3.37	1.46	.61	3.37
63	.59	1.06	.72	.44	.63	5.63	1.04	.95	4.51	.16	1.92	.92	5.63
64	.74	1.01	.79	.73	.55	.87	1.06	1.43	5.15	1.41	1.00	1.31	5.15
65	.64	.44	.95	.57	.20	2.08	3.14	1.13	.53	1.01	.16	.42	3.14
66	.90	1.08	.51	.88	1.44	1.72	2.65	1.54	3.48	.60	.71	1.26	3.48
67	1.24	1.55	.82	.63	1.88	.70	1.67	3.55	1.07	.82	.62	1.26	3.55
68	1.55	.95	1.57	.76	1.58	1.42	.52	.39	2.01	1.16	.78	.64	2.01
69	1.66	.83	1.14	.98	1.24	1.67	1.50	1.21	1.57	1.08	1.02	1.34	1.67
70	.95	1.73	1.02	1.01	.96	1.57	1.45	1.49	1.33	.61	1.04	1.70	1.73

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3802-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	1.71	.42	1.28	1.68	1.29	.97	1.45	3.43	2.79	3.93	1.01	.85	3.93
72	1.36	1.15	.89	1.75	1.07	1.14	1.53	.93	6.51	1.66	1.58	1.69	6.51
73	1.51	1.62	1.31	.69	.77	4.12	1.96	4.88	2.04	2.18	1.32	1.80	4.88
74	1.24	1.53	1.30	.91	1.09	1.66	2.17	2.33	3.61	1.33	.57	.85	3.61
75	1.77	1.56	2.73	3.07	.97	1.12	1.89	2.23	4.03	.77	1.23	1.06	4.03
76	2.33	.55	1.92	.50	1.94	1.13	1.57	.87	1.96	1.21	.62	1.06	2.33
77	1.32	1.54	1.44	.48	1.55	.86	3.02	2.14	.73	1.39	2.13	.92	3.02
78	1.29	.80	1.84	2.29	1.50	1.15	1.68	.97	1.18	2.13	.80	.91	2.29
79	1.74	1.39	2.99	2.08	2.11	2.76	1.58	2.95	5.92	1.01	3.31	.19	5.92
80	1.01	1.47	1.10	.72	1.44	.23	.70	2.39	.68	1.50	.53	.65	2.39
81	.48	.56	.63	.78	1.34	3.08	3.40	3.29	1.56	2.02	.87	1.87	3.40
82	.70	1.60	1.32	.71	.63	3.11	.70	2.00	1.80	1.71	1.02	1.38	3.11
83	.42	2.24	1.48	2.25	1.39	.41	.83	.78	1.46	1.99	.99	2.61	2.61
84	1.47	2.05	1.53	1.12	2.27	1.29	1.53	.47	.41	.55	.91	1.20	2.27
85	1.98	1.35	1.17	.18	1.48	2.45	3.44	.33	3.51	1.11	1.83	.78	3.51
86	.42	.46	.52	.35	.38	.70	.50	1.65	.42	.65	.41	2.16	2.16
87	2.46	1.06	1.67	.98	2.00	3.24	1.51	.80	1.18	.56	1.16	.86	3.24
88	.94	1.05	1.10	1.01	1.77	1.12	1.64	1.46	1.67	1.06	2.03	.40	2.03
89	.78	1.22	1.84	1.60	1.04	.71	.92	3.69	1.54	1.00			3.69*
GREATEST	2.65	2.32	2.99	3.07	4.43	5.63	3.57	4.88	6.51	3.93	4.66	2.61	6.51
TOTAL OBS	1581	1462	1604	1557	1610	1558	1610	1612	1560	1612	1530	1578	18874

THE GREATEST VALUE OF 6.51 OCCURRED ON 09/21/72

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4601-8910
MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	86.3	88.2	93.6	99.4	100.0	100.0	100.0	100.0	100.0	99.9	97.7	93.5	96.6
TRACE	8.5	6.8	4.3	.5						.1	2.1	4.4	2.2
0.1-0.4	1.1	1.5	.2								.1	.5	.3
0.5-1.4	1.3	.8	.7								.1	.6	.3
1.5-2.4	1.2	1.0	.4								.1	.5	.3
2.5-3.4	.7	.6	.4									.2	.2
3.5-4.4	.4	.2	.1									.2	.1
4.5-6.4	.1	.4											.0
6.5-10.4	.3	.4	.1	.1								.1	.1
10.5-15.4		.1	.1									.1	.0
15.5-25.4													
25.5-50.4													
OVER 50.4													
DAYS WITH MEAS AMTS	5.2	5.1	2.1	.1							.2	2.0	1.2
TOTAL NO. OF OBSERVATIONS	1364	1242	1364	1320	1364	1320	1364	1364	1320	1363	1290	1333	16008

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4601-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
46	1.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
47	.0	3.3	11.1	.0	.0	.0	.0	.0	.0	.0	TRACE	1.4	15.8
48	10.8	9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	19.8
49	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
50	TRACE	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	5.0
51	TRACE	.2	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	.2
52	TRACE	5.7	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	5.7
53	TRACE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	1.0
54	4.2	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	4.0	8.2
55	9.2	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0	10.2
56	.1	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.1
57	4.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	2.2	6.6
58	4.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	22.0	28.0
59	1.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	1.0
60	TRACE	5.7	10.5	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	16.2
61	3.7	3.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	6.8
62	15.1	1.6	4.5	.0	.0	.0	.0	.0	.0	.0	TRACE	7.6	28.8
63	1.7	7.6	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.4	9.7
64	TRACE	11.8	1.1	TRACE	.0	.0	.0	.0	.0	.0	.3	.0	13.2
65	16.3	6.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	23.3
66	15.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.2	16.4
67	3.5	7.3	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0	12.8
68	.2	TRACE	.8	.0	.0	.0	.0	.0	.0	.0	TRACE	2.6	3.6
69	TRACE	1.7	3.6	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	5.3
70	4.8	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	7.6
71	1.0	1.7	8.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	10.9
72	.0	.2	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	.0	.2
73	7.9	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.2	10.1
74	TRACE	2.4	3.1	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	5.5
75	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
76	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0	2.0
77	6.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	6.8
78	2.5	9.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0
79	.4	12.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5
80	12.3	16.4	21.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	50.1

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4601-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.1
82	3.4	1.3	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.2
83	TRACE	3.5	TRACE	6.5	.0	.0	.0	.0	.0	.0	TRACE	TRACE	10.0
84	TRACE	1.8	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.8
85	7.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	7.0
86	4.0	3.6	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	7.6
87	1.5	4.9	.1	TRACE	.0	.0	.0	.0	.0	.0	1.7	TRACE	8.2
88	3.7	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.7
89	TRACE	21.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0			21.4*
LEAST	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
GREATEST	16.3	21.4	21.3	6.5	.0	.0	.0	.0	.0	TRACE	1.7	22.0	50.1
MEAN	3.3	3.4	1.6	.1	.0	.0	.0	.0	.0	TRACE	.1	1.3	9.6
MEDIAN	1.3	1.7	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	7.6
SD	4.582	4.803	4.028	.980	.000	.000	.000	.000	.000	.000	.300	3.578	9.502
TOTAL OBS	1364	1242	1364	1320	1364	1320	1364	1364	1320	1363	1290	1333	16008

THE GREATEST VALUE OF 22.0 OCCURRED ON 12/58

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4601-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
46	1.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
47	.0	3.3	4.2	.0	.0	.0	.0	.0	.0	.0	TRACE	1.4	4.2
48	4.4	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	4.4
49	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
50	TRACE	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	3.0
51	TRACE	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	.1
52	TRACE	4.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	4.0
53	TRACE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	1.0
54	2.0	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	4.0	4.0
55	2.8	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.0	2.8
56	.1	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.0
57	2.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	2.2	2.2
58	4.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	12.0
59	1.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	1.0
60	TRACE	5.7	3.8	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	5.7
61	2.7	1.6	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.7
62	8.9	1.6	2.8	.0	.0	.0	.0	.0	.0	.0	TRACE	4.2	8.9
63	1.1	6.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.0
64	TRACE	5.4	1.1	TRACE	.0	.0	.0	.0	.0	.0	.3	.0	5.4
65	6.4	6.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	6.4
66	7.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.1	7.9
67	3.5	6.9	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0	6.9
68	.1	TRACE	.8	.0	.0	.0	.0	.0	.0	.0	TRACE	2.6	2.6
69	TRACE	1.7	2.4	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.4
70	1.9	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.1
71	.9	.8	7.9	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	7.9
72	.0	.2	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE	.0	.2
73	7.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.7
74	TRACE	2.4	3.1	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	3.1
75	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
76	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.0	2.0
77	2.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.9
78	2.5	8.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0
79	.4	7.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
80	9.3	9.4	11.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.1

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4601-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
81	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0
82	3.0	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0
83	TRACE	1.8	TRACE	6.5	.0	.0	.0	.0	.0	.0	TRACE	TRACE	6.5
84	TRACE	1.8	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	1.8
85	2.3	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.3
86	2.2	2.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	2.8
87	1.1	2.8	.1	TRACE	.0	.0	.0	.0	.0	.0	1.7	TRACE	2.8
88	3.2	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.0
89	TRACE	12.2	TRACE	TRACE	.0	.0	.0	.0	.0	.0			12.2*
GREATEST	9.3	12.2	11.1	6.5	.0	.0	.0	.0	.0	TRACE	1.7	12.0	12.2
TOTAL OBS	1364	1242	1364	1320	1364	1320	1364	1364	1320	1363	1290	1333	16008

THE GREATEST VALUE OF 12.2 OCCURRED ON 02/18/89

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3702-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	88.3	89.8	96.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	99.9	96.2	97.6
TRACE	4.4	4.2	1.8	.1							.1	1.5	1.0
1	1.9	1.7	.6									.7	.4
2	2.4	1.0	.4									.7	.4
3	1.2	1.0	.2									.4	.2
4-6	1.4	1.2	.2									.1	.2
7-12	.2	.8	.1									.3	.1
13-24	.1	.3	.2									.1	.1
25-36													
37-48													
49-60													
61-120													
OVER 120													
DAYS WITH MEAS AMTS	7.4	6.0	1.6									2.3	1.4
TOTAL NO. OF OBSERVATIONS	1601	1486	1641	1589	1643	1590	1643	1643	1590	1642	1560	1596	19224

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3702-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
37		2	0	0	0	0	0	0	0	0	0	0	2*
38	0	0	0	0	0	0	0	0	0	0	0	0	0
39	4	0	0	0	0	0	0	0	0	0	0	1	4
40	5*	3*	1	0	0	0	0	0	0	0	0	0	5*
41	2	5	5	0	0	0	0	0	0	0	0	0	5
42	3	0	0	0	0	0	0	0	0	0	0	3	3
43	3	0	0	0	0	0	0	0	0	0	0	0*	3*
44	2	0	0	0	0	0	0	0	0	0	0	0	2
45	0	0	0	0	0	0	0	0	0	0	0	2*	2*
46	2	0	0	0	0	0	0	0	0	0	0	0	2
47	0	3	3	0	0	0	0	0	0	0	0	0	3
48	4	6	0	0	0	0	0	0	0	0	0	TRACE	6
49	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	TRACE	2	0	0	0	0	0	0	0	TRACE	0	2
51	0	TRACE	0	0	0	0	0	0	0	0	0	0	TRACE
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	1	0	0	0	0	0	0	0	0	0	1
54	3	0	0	0	0	0	0	0	0	0	0	3	3
55	2	0	0	0	0	0	0	0	0	0	0	TRACE	2
56	0	0	0	0	0	0	0	0	0	0	0	0	0
57	3	0	0	0	0	0	0	0	0	0	0	TRACE	3
58	4	1	0	0	0	0	0	0	0	0	0	13	13
59	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
60	TRACE	3	4	0	0	0	0	0	0	0	0	TRACE	4
61	2	TRACE	0	0	0	0	0	0	0	0	0	0	2
62	6	1	2	0	0	0	0	0	0	0	0	2	6
63	1	6	TRACE	0	0	0	0	0	0	0	0	0	6
64	0	6	0	0	0	0	0	0	0	0	0	0	6
65	6	4	0	0	0	0	0	0	0	0	0	0	6
66	13	13	0	0	0	0	0	0	0	0	0	1	13
67	4	7	0	0	0	0	0	0	0	0	0	2	7
68	0	0	2	0	0	0	0	0	0	0	0	3	3
69	0	0	1	0	0	0	0	0	0	0	0	0	1
70	1	2	0	0	0	0	0	0	0	0	0	0	2

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3702-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	TRACE	2	3	0	0	0	0	0	0	0	0	0	3
72	0	TRACE	0	0	0	0	0	0	0	0	0	0	TRACE
73	8	TRACE	0	0	0	0	0	0	0	0	0	2	8
74	0	2	1	0	0	0	0	0	0	0	0	0	2
75	1	0	TRACE	0	0	0	0	0	0	0	0	0	1
76	TRACE	0	0	0	0	0	0	0	0	0	0	2	2
77	3	0	0	0	0	0	0	0	0	0	0	0	3
78	1	6	2	0	0	0	0	0	0	0	0	0	6
79	0	5	0	0	0	0	0	0	0	0	0	0	5
80	5	12	19	0	0	0	0	0	0	0	0	0	19
81	0	0	TRACE	0	0	0	0	0	0	0	0	0	TRACE
82	3	0	0	0	0	0	0	0	0	0	0	1	3
83	0	1	0	TRACE	0	0	0	0	0	0	0	0	1
84	TRACE	1	TRACE	0	0	0	0	0	0	0	0	0	1
85	2	0	0	0	0	0	0	0	0	0	0	TRACE	2
86	3	3	0	0	0	0	0	0	0	0	0	0	3
87	2	5	TRACE	0	0	0	0	0	0	0	TRACE	0	5
88	2	0	0	0	0	0	0	0	0	0	0	TRACE	2
89	0	13	TRACE	TRACE	0	0	0	0	0	0			13*
GREATEST	13	13	19	TRACE	0	0	0	0	0	0	TRACE	13	19
TOTAL OBS	1601	1486	1641	1589	1643	1590	1643	1643	1590	1642	1560	1596	19224

THE GREATEST VALUE OF 19 OCCURRED ON 03/03/80

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA

PERIOD OF RECORD: 3702-8910
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
36 - 37			FEB 16			FEB 17
38 - 39			JAN 16			JAN 17
39 - 40			DEC 24			MAR 25
40 - 41			JAN 28			MAR 01
41 - 42			JAN 08			JAN 12
42 - 43			DEC 17			JAN 10
43 - 44			JAN 09			JAN 10
45 - 46	JAN 01	JAN 20	DEC 16	FEB 11	JAN 20	JAN 20
46 - 47	FEB 04	FEB 23	FEB 24	MAR 28	MAR 28	MAR 28
47 - 48	NOV 30	DEC 25	JAN 24	FEB 10	FEB 10	FEB 13
48 - 49	DEC 25			MAR 18		
49 - 50	DEC 10	FEB 26	MAR 17	MAR 17	MAR 16	MAR 17
50 - 51	NOV 11	FEB 03		MAR 26	FEB 10	
51 - 52	NOV 03	FEB 24		FEB 27	FEB 26	
52 - 53	NOV 30	MAR 02	MAR 02	MAR 08	MAR 02	MAR 02
53 - 54	NOV 06	JAN 11	JAN 23	APR 04	JAN 23	JAN 23
54 - 55	DEC 06	DEC 06	DEC 06	FEB 11	JAN 30	JAN 24
55 56	NOV 19	DEC 30		MAR 24	JAN 19	
56 - 57	NOV 24	NOV 24	JAN 16	MAR 05	AN 17	JAN 20
57 - 58	NOV 25	DEC 11	JAN 08	MAR 21	MAR 09	FEB 02
58 - 59	DEC 11	DEC 11	DEC 12	MAR 28	JAN 08	DEC 20
59 - 60	NOV 29	FEB 13	FEB 13	MAR 21	MAR 20	MAR 13
60 - 61	DEC 12	JAN 21	JAN 22	MAR 21	FEB 08	JAN 31
61 - 62	NOV 19	JAN 01	JAN 02	MAR 07	MAR 07	MAR 07
62 - 63	NOV 26	DEC 11	DEC 12	MAR 21	FEB 26	FEB 28
63 - 64	DEC 09	DEC 18	FEB 08	APR 01	MAR 30	FEB 29
64 - 65	NOV 30	NOV 30	JAN 16	MAR 20	MAR 20	FEB 16
65 - 66	DEC 21	JAN 16	JAN 16	FEB 02	FEB 01	FEB 10

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA

PERIOD OF RECORD: 3702-8910
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
66 - 67	NOV 29	DEC 24	DEC 25	FEB 18	FEB 10	FEB 11
67 - 68	NOV 30	DEC 23	DEC 23	MAR 13	MAR 01	MAR 02
68 - 69	NOV 12	DEC 07	DEC 08	MAR 09	MAR 09	MAR 10
69 - 70	DEC 16	JAN 06	JAN 08	FEB 25	FEB 25	FEB 05
70 - 71	DEC 26	DEC 26	FEB 01	MAR 26	MAR 26	MAR 27
71 - 72	DEC 18	FEB 19		APR 08	FEB 19	
72 - 73	OCT 19	JAN 08	JAN 09	MAR 22	JAN 09	JAN 16
73 - 74	DEC 11	DEC 11	DEC 18	MAR 25	MAR 25	MAR 26
74 - 75	NOV 13		JAN 21	MAR 10		JAN 21
75 - 76	JAN 17			FEB 03		
76 - 77	NOV 08	DEC 08	DEC 09	FEB 18	FEB 18	JAN 19
77 - 78	NOV 26	JAN 09	JAN 10	MAR 16	MAR 03	MAR 03
78 - 79	JAN 06	JAN 31	FEB 07	MAR 11	FEB 18	FEB 21
79 - 80	JAN 05	JAN 05	JAN 06	MAR 03	MAR 03	MAR 07
80 - 81	DEC 26	DEC 27		MAR 19	DEC 27	
81 - 82	DEC 09	DEC 18	JAN 15	MAR 15	FEB 27	JAN 18
82 - 83	DEC 12	DEC 12	DEC 13	APR 19	APR 18	FEB 06
83 - 84	NOV 13	FEB 06	FEB 07	MAR 09	FEB 06	FEB 07
84 - 85	DEC 05	JAN 10	JAN 17	MAR 22	JAN 28	JAN 29
85 - 86	DEC 20	JAN 27	JAN 28	APR 23	FEB 26	FEB 16
86 - 87	DEC 18	JAN 25	JAN 27	APR 05	MAR 10	FEB 19
87 - 88	NOV 11	NOV 11	JAN 08	MAR 21	FEB 12	JAN 14
88 - 89	DEC 09	DEC 09	FEB 18	APR 11	FEB 24	FEB 27
MEDIAN-DATE	DEC 05	JAN 01	JAN 15	MAR 18	FEB 25	FEB 12

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT              CCCCCC
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT             CCCCCCCC
PP      PP     AA      AA   RR      RR        TT                CC      CC
PP      PP     AA      AA   RR      RR        TT                CC
PPPPPPPPP      AA      AA   RRRRRRRRR         TT                CC
PPPPPPPP       AAAAAAAAAA   RRRRRRRR          TT                CC
PP             AAAAAAAAAA   RR    RR          TT                CC
PP             AA      AA   RR     RR         TT                CC      CC
PP             AA      AA   RR      RR        TT                 CCCCCCCC
PP             AA      AA   RR       RR       TT                  CCCCCC
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PART C

SURFACE WIND SUMMARIES

PEAK WINDS.
THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS. DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.
ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS) THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET. IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED: WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4602-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
46		SSW 58	WSW*46	*	*	NW 37	*	*	N 36	*	*	*	SSW*58
47	SSW 30	N *26	WSW 39	*	*	NNE 26	WSW 25	SW 24	WSW 52	NNW 30	E 58	W 36	E *58
48	NNE 40	NNE*22	NNE 39	S 67	NW 47	WSW 44	W 38	NW 49	NNW 52	ENE 38	N 35	NNW 37	S *67
49	N *30	*	N *39	NNW 34	NNW 39	WNW*35	WSW 35	SSW 43	NE 32	N 30	N 39	WSW 36	SSW*43
50	WSW 34	N *28	SSW*57	N 43	NNE 41	W 41	NNW 36	NNW 41	NNE 32	S 36	NNW*44	*	SSW*57
51	WSW*43	SW 56	E *37	WNW*43	WNW*59	NNW*36	NNW 42	NNW 45	N 35	N 43	ESE 47	WSW 43	WNW*59
52	NNW 46	NNE 47	WSW 47	WSW 40	WSW 38	WNW 56	WNW 48	SSW 47	NNE 35	N 43	N 46	ENE 42	WNW 56
53	WSW 40	WNW 46	W 48	NNW 40	NNW 47	W 33	NNE 28	N 68	NNW 46	N 36	NNW 55	SW 52	N 68
54	WNW 42	NNW 46	SW 45	NE 43	WSW 36	W 41	NNW 42	NNW 49	NNW 51	S 83	SSW 45	N 49	S 83
55	NNW 35	WNW 51	WSW 50	WSW 30	N 31	NNE 34	WNW 35	NNE 46	ENE 50	NNW*40	N 50	NW 33	WNW*51
56	SSW*45	SSE*24	WSW*52	NNE 61	WNW 45	WNW 3	W 49	WNW 49	NNE 55	N 39	NNW 34	SW 36	NNE*61
57	WSW 59	N 40	W 42	WNW 54	NE 38	WSW 48	NW 37	NNE 50	NE 35	N 52	WNW 48	W 40	WSW 59
58	E 55	E 42	N 38	N 37	WSW 42	SW 47	W 45	S 40	NNE 54	NNE 46	N 42	ENE 57	ENE 57
59	WNW 46	WNW 41	WSW 47	NNE 42	SSW 40	N 40	NNW 36	NNE 26	ENE 35	ENE 30	N 36	N 35	WSW 47
60	WNW 46	WSW 46	WNW 41	SSW 34	WNW 48	SSW 40	ESE 35	N *29	WNW 61	NNW 29	N 28	NW 38	WNW*61
61	N 36	SW 46	N 31	SSE 36	W 28	SW *26	WNW 32	WNW 30	NE 26	E 31	N 28	NW 27	SW *46
62	NNE 34	N 26	NNE 43	WNW 36	NW 30	NNE 46	NNW 39	WNW 28	NNE 25	NNW 25	SE 42	N *37	NNE*46
63	NNW*27	NNE 27	WNW 33	WNW 38	NW 28	SSW 40	NNE 23	SSE 51	NNE 33	NNW 32	WNW 38	WNW 27	SSE*51
64	SW 38	W 44	WSW 52	WSW 39	WSW 40	N 36	NNW 36	E 35	NE 48	ENE 45	NNW 36	NNW 41	WSW 52
65	NNE 39	SW 50	SW 34	W 33	W 32	E 49	NE 33	N 38	SW 27	SSE 36	WSW 31	N 30	SW 50
66	WNW 44	SSW 45	WNW 43	WNW 38	N 32	NE 31	NNE 33	N 35	E 27	N 27	SW 40	WSW 31	SSW 45
67	SSW 33	SW 37	NW 52	WSW 37	WNW 46	NNW 38	NNW 33	WNW 32	N 47	SW 46	N 49	W 36	NW 52
68	W 40	WNW 32	NNW 36	NW 37	ENE 47	WNW 37	32/ 40	34/ 28	02/ 22	27/ 33	21/*35	25/ 45	ENE*47
69	01/ 39	33/ 40	01/ 40	24/*37	21/ 32	29/ 41	18/ 42	01/ 45	04/ 28	24/ 34	36/ 39	32/ 44	01/*45
70	33/ 42	36/ 44	35/ 37	21/ 50	26/ 31	27/ 50	27/ 47	27/ 37	35/ 37	05/ 35	26/ 50	29/ 46	21/ 50
71	27/ 54	20/ 51	23/ 66	02/ 50	29/ 42	35/ 33	32/ 45	35/ 52	03/ 43	08/ 45	09/ 35	34/ 47	23/ 66
72	24/ 37	17/ 55	30/ 40	30/ 46	05/ 40	32/ 47	03/ 32	18/ 42	36/ 36	08/ 42	27/ 45	28/ 40	17/ 55
73	29/ 38	02/ 46	24/ 50	27/ 36	25/ 47	18/ 36	21/ 28	29/ 40	34/ 30	26/ 33	23/ 36	05/ 42	24/ 50
74	29/ 32	24/ 45	21/*36	35/ 42	32/ 43	21/ 51	15/ 41	35/ 37	06/ 32	32/ 31	36/ 34	11/ 45	21/*51
75	27/ 40	22/ 36	28/ 44	22/ 49	35/ 37	35/ 30	14/ 37	05/ 32	26/ 59	35/ 37	03/ 34	29/ 31	26/ 59
76	35/ 37	36/ 44	30/ 43	02/ 37	24/ 45	22/ 46	35/ 35	34/ 38	36/ 29	23/ 40	29/ 38	30/ 39	22/ 46
77	29/ 42	22/ 49	29/ 46	23/ 40	36/ 37	30/ 47	24/ 36	23/ 36	25/ 31	29/ 37	24/ 36	30/ 35	22/ 49
78	23/ 61	30/ 39	20/ 38	05/ 62	28/ 36	05/ 38	03/ 30	32/ 42	07/ 27	03/ 35	02/ 28	24/ 42	05/ 62
79	25/ 38	31/ 43	29/ 48	27/ 46	36/ 37	36/ 31	30/ 31	36/ 41	17/ 39	26/ 32	17/ 38	36/ 37	29/ 48
80	25/ 30	33/ 34	01/ 48	30/ 34	28/ 32	31/ 35	31/ 50	32/ 39	06/ 23	26/ 39	27/ 33	36/ 39	31/ 50

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 4602-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
81	29/ 31	19/ 35	33/ 40	22/ 31	31/ 35	27/ 39	30/ 42	04/ 35	34/ 28	29/ 32	01/ 37	09/ 36	30/ 42
82	28/ 39	02/ 31	01/ 30	26/ 48	30/ 27	26/ 32	24/ 42	29/ 28	08/ 31	02/ 45	21/ 32	01/ 39	26/ 48
83	01/ 29	05/ 41	01/ 41	35/ 33	29/ 42	24/ 26	28/ 42	35/ 30	21/ 60	25/ 32	34/ 44	24/ 56	21/ 60
84	29/ 33	11/ 44	21/ 41	27/ 39	28/ 55	23/ 34	29/ 30	29/ 34	02/ 28	36/ 30	16/ 32	22/ 29	28/ 55
85	33/ 37	20/ 37	30/ 42	23/ 38	36/ 30	30/ 35	20/ 38	03/ 22	32/ 57	05/ 30	11/ 58	28/ 52	11/ 58
86	30/ 31	26/ 27	26/ 41	30/ 34	01/ 25	31/ 31	34/ 37	02/ 52	36/ 27	02/ 28	34/ 32	05/ 31	02/ 52
87	35/ 42	32/ 41	01/ 41	01/ 37	02/ 29	29/ 36	20/ 28	29/ 34	05/ 26	01/ 34	31/ 33	34/ 35	35/ 42
88	35/ 30	27/ 34	25/ 38	36/ 38	28/ 37	35/ 37	23/ 32	21/ 26	21/ 26	02/ 23	22/ 42	31/ 37	22/ 42
89	34/ 34	36/ 40	29/ 41	22/ 29	27/ 42	34/ 33	22/ 33	30/ 38	36/ 36	06/ 23			27/*42
GREATEST	23/ 61	SSW 58	23/ 66	S 67	WNW 59	WNW 56	31/ 50	N 68	WNW 61	S 83	E 58	ENE 57	S 83
TOTAL OBS	1301	1136	1294	1239	1296	1291	1322	1324	1316	1322	1239	1260	15340

THE PEAK WIND OF 83 FROM S OCCURRED ON 10/15/54

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH
$THE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 4602-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

MONTH	WIND SPEEDS IN KNOTS CALM-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	MEAN WIND	MEDIAN WIND	TOTAL OBS
JAN	.1	3.1	18.3	23.4	24.5	14.3	9.5	4.5	2.1	.3	.0	21.4	20.0	1301
FEB	.0	1.6	16.0	22.5	24.6	15.6	9.8	5.3	4.0	.7	.0	22.6	21.0	1136
MAR	.0	1.2	12.2	22.2	24.6	19.1	10.1	6.0	4.2	.5	.1	23.4	22.0	1294
APR	.0	.3	10.7	25.6	27.4	16.8	10.9	5.1	2.4	.7	.1	23.1	22.0	1239
MAY	.0	1.3	19.1	28.7	27.9	13.2	4.7	3.1	1.8	.2	.0	20.4	20.0	1296
JUN	.2	4.3	20.[illegible]	33.3	23.3	9.1	4.9	2.5	1.6	.2	.0	19.3	18.0	1291
JUL	.0	1.7	306	34.0	18.9	8.0	2.9	2.2	1.6	.1	.0	18.3	17.0	1322
AUG	.0	4.0	31.3	31.3	19.6	6.5	3.5	1.7	1.7	.3	.1	18.1	17.0	1324
SEP	.1	4.3	27.5	32.9	19.5	8.8	3.8	1.6	.6	.8	.0	18.4	17.0	1316
OCT	.0	4.4	25.9	26.9	21.9	10.5	6.3	2.4	1.6	.1	.1	19.3	18.0	1322
NOV	.0	5.1	21.1	26.0	20.8	13.6	7.9	3.4	1.6	.4	.0	20.2	19.0	1239
DEC	.0	4.5	19.7	26.6	20.6	14.8	7.5	4.1	1.8	.3	.0	20.6	19.0	1260
ANNUAL	.0	3.0	21.2	27.9	22.8	12.4	6.7	3.5	2.1	.4	.0	20.4	19.0	15340

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	3-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	7.2	4.6	1.5	.2							16.5	8.4	8.0
020-040	1.8	3.8	1.8	.4								7.8	7.4	6.0
050-070	1.6	1.2										2.8	4.6	4.0
(E) 080-100	.6	.9	.3	.2	.2							2.3	8.4	8.0
110-130	.6	.4	.2	.1								1.4	6.2	5.0
140-160	.9	.8										1.6	4.4	4.0
(S) 170-190	2.4	2.4	.2									4.9	5.1	5.0
200-220	3.9	4.2	1.3	.1								9.5	5.8	5.0
230-250	2.7	3.3	3.0		.1							9.1	7.3	8.0
(W) 260-280	1.7	1.9	3.2	.3	.1							7.3	8.7	9.5
290-310	2.3	1.3	1.7	.4								5.7	7.5	6.0
320-340	4.3	4.6	2.8	.6								12.4	7.2	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	18.7	//////	//////
TOTALS	25.7	32.0	19.1	3.6	.6							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	7.1	7.1	.9	.2							18.4	8.5	9.0
020-040	1.4	4.1	1.8	.1								7.4	7.6	8.0
050-070	.9	1.2	.2									2.[illegible]	6.0	5.0
(E) 080-100	1.0	.2	.2									1.4	4.5	2.0
110-130	.6	.8	.1									1.5	5.5	5.5
140-160	.6	.9										1.5	4.4	5.0
(S) 170-190	1.6	2.7										4.3	5.1	5.5
200-220	3.7	5.5	1.0									10.1	5.7	6.0
230-250	3.9	2.8	2.4	.3	.1							9.5	6.7	6.0
(W) 260-280	2.2	2.0	2.6	1.[illegible]	.1							7.8	8.4	9.0
290-310	3.3	2.2	2.0	.1								7.6	6.3	5.0
320-340	3.0	5.7	2.4	.5								11.6	7.1	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.6	//////	//////
TOTALS	25.3	35.2	19.8	2.9	.4							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	6.8	6.8	1.1	.1							18.1	8.6	8.0
020-040	2.2	6.0	1.9	.4								10.5	7.2	7.0
050-070	1.0	1.4	.2									2.6	5.5	6.0
(E) 080-100	.8	.4										1.2	4.4	4.0
110-130	.9	.1										1.0	2.9	3.0
140-160	.8	.3	.1									1.2	4.5	3.0
(S) 170-190	1.4	1.9	.1	.1								3.5	5.8	6.0
200-220	3.2	5.3	3.0									11.5	6.8	7.0
230-250	3.3	3.5	.9	.3								8.1	6.1	6.0
(W) 260-280	2.2	3.4	2.6	.6								8.8	7.8	7.0
290-310	3.5	1.5	1.5	.3		.1						7.0	6.7	4.0
320-340	3.2	4.9	3.0	.8								11.9	7.5	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	14.6	//////	//////
TOTALS	25.8	35.5	20.1	3.6	.1	.1						100.0	6.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	7.8	8.4	2.7	.2							21.5	9.8	10.0
020-040	1.8	6.2	3.5	.2	.2							12.0	8.1	8.0
050-070	1.3	2.7	.8									4.7	6.5	6.5
(E) 080-100	.6	.3										1.0	3.7	3.0
110-130	.6	1.0										1.6	4.7	5.0
140-160	.5	.5										1.1	4.5	4.0
(S) 170-190	1.1	1.9	.9	.2								4.1	7.3	8.0
200-220	1.7	4.5	4.5	.4								11.2	8.5	8.5
230-250	1.3	3.3	3.8	.8	.2							9.4	9.4	10.0
(W) 260-280	2.0	3.3	2.9	1.2	.1							9.6	9.0	9.0
290-310	2.2	1.9	1.9	.9								6.9	8.1	7.5
320-340	1.7	4.4	2.7	1.7	.3							10.9	9.3	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.1	////	////
TOTALS	17.2	37.8	29.4	8.1	1.0							100.0	8.1	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	7.8	7.4	1.6								18.7	9.3	9.0
020-040	2.7	7.4	4.3	.5								14.9	7.6	7.0
050-070	1.6	3.3	.4	.1								5.5	6.0	6.0
(E) 080-100	1.4	1.0	.2									2.6	5.1	4.0
110-130	.6	.5	.1									1.3	5.3	4.5
140-160	.8	.6	.2									1.6	5.1	5.0
(S) 170-190	.6	1.6	.9	.3								3.4	7.9	6.0
200-220	.4	4.3	5.5	1.2								11.4	10.2	10.0
230-250	.8	3.3	6.1	1.3								11.5	10.3	10.0
(W) 260-280	.6	2.4	3.9	1.7	.4							9.0	11.1	12.0
290-310	.9	2.2	3.1	1.0	.2							7.3	9.9	10.0
320-340	1.4	3.4	3.3	1.1	.5							9.8	10.0	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	2.9	//////	//////
TOTALS	13.6	37.8	35.4	8.8	1.1							100.0	8.8	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	6.2	5.4	.9	.2	.1						14.6	9.0	9.0
020-040	3.0	6.7	2.5	.8								12.9	7.3	6.0
050-070	3.4	3.3	.5									7.3	5.1	5.0
(E) 080-100	2.8	1.9	.1									4.8	4.3	4.0
110-130	1.8	1.5										3.3	4.4	4.0
140-160	.6	.5	.1									1.3	4.6	4.5
(S) 170-190	.5	1.5	1.0	.2	.1							3.3	8.9	7.0
200-220	2.0	4.1	4.0	.4								10.5	8.3	8.0
230-250	1.4	5.4	3.9	.2								10.9	8.3	8.0
(W) 260-280	1.2	3.0	3.7	.6	.2	.1						8.8	9.6	10.0
290-310	1.6	2.6	3.1	1.1	.1							8.5	9.2	10.0
320-340	.9	4.9	2.7	.1	.1							9.7	9.2	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	4.0	////	////
TOTALS	21.0	41.6	27.0	5.3	.7	.2						100.0	7.6	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	6.8	6.0	2.7	.9		.3						16.7	7.0	6.0
020-040	4.7	2.3	2.6	.5								10.1	6.6	5.0
050-070	2.2	.5	.5	.1								3.3	5.3	4.0
(E) 080-100	1.6	.3	.1									2.0	3.5	3.0
110-130	1.9	1.2	.1									3.2	4.2	3.5
140-160	1.6	1.3										2.9	4.4	4.0
(S) 170-190	1.3	2.3	.3	.1								4.0	5.9	5.0
200-220	2.0	5.6	1.7	.1								9.5	6.8	7.0
230-250	3.8	2.7	1.8	.2	.1							8.6	6.4	5.0
(W) 260-280	3.2	2.0	1.2	.4	.1							7.0	6.4	5.0
290-310	2.7	3.3	1.2	.3	.1							7.6	6.4	5.0
320-340	2.4	2.9	1.9	.4	.1							7.7	7.7	7.0
VARIABLE														
CALM												17.3		
TOTALS	34.2	30.4	14.1	3.0	.4	.3						100.0	5.3	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.5	5.8	5.3	.8		.1						17.4	7.6	7.5
020-040	2.6	2.3	1.4	.4								6.7	6.6	5.5
050-070	1.5	1.6	.3	.1								3.5	5.5	5.0
(E) 080-100	.2	.3	.4									1.0	7.8	7.0
110-130	.5	.1										.6	3.2	3.0
140-160	1.2	1.0	.1									2.3	4.7	4.0
(S) 170-190	1.7	2.5	.3	.3								4.8	6.4	5.0
200-220	2.8	5.4	1.3	.1								9.6	6.1	6.0
230-250	2.4	3.5	2.4	.1								8.4	7.2	7.0
(W) 260-280	2.6	2.7	2.7	.4	.1							8.5	8.1	8.0
290-310	2.4	1.1	.6	.6	.1							4.8	6.7	5.0
320-340	2.3	4.4	2.7	1.0	.2							10.5	8.4	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.8	//////	//////
TOTALS	25.7	30.7	17.5	3.8	.4	.1						100.0	5.5	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.5	6.9	6.0	1.3	.1	.1						17.7	8.6	8.0
020-040	2.5	4.8	2.5	.4	.0							10.3	7.3	7.0
050-070	1.7	1.9	.4	.0								4.0	5.6	5.0
(E) 080-100	1.1	.7	.2	.0	.0							2.0	5.1	4.0
110-130	1.0	.7	.1	.0								1.7	4.6	4.0
140-160	.9	.7	.1									1.7	4.6	4.0
(S) 170-190	1.3	2.1	.5	.2	.0							4.1	6.4	6.0
200-220	2.5	4.9	2.8	.3								10.4	7.3	7.0
230-250	2.4	3.5	3.0	.4	.1							9.4	7.8	8.0
(W) 260-280	2.0	2.6	2.8	.8	.1	.0						8.4	8.7	9.0
290-310	2.4	2.0	1.9	.6	.1	.0						6.9	7.7	6.0
320-340	2.4	4.4	2.7	.9	.2							10.6	8.3	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	12.8	//////	//////
TOTALS	23.7	35.2	23.0	4.9	.6	.1						100.0	6.7	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	9.0	9.0	3.6	.3	.5						25.3	10.0	10.0
020-040	2.4	5.1	4.2	1.8	.2							13.6	9.1	9.0
050-070	.9	1.3	.2	.1								2.4	6.0	6.0
(E) 080-100	.9	1.3	.4		.2							2.7	7.4	6.5
110-130	1.0	.8	.1	.1								1.9	5.2	4.5
140-160	.8	.2	.1									1.7	4.9	5.0
(S) 170-190	.7	1.0	.1	.3								2.0	7.1	6.0
200-220	2.1	1.0	1.6	.1								4.8	6.7	5.0
230-250	2.1	2.5	3.2	.1								8.0	7.6	7.5
(W) 260-280	1.5	3.1	1.6	.3								6.4	7.3	7.0
290-310	3.3	4.0	1.9	.2								9.4	6.6	5.0
320-340	2.9	7.9	2.7	.5	.1							14.1	7.4	7.0
VARIABLE														
CALM												7.5		
TOTALS	21.6	37.8	25.1	7.1	.8	.5						100.0	7.5	8.0

TOTAL NUMBER OF OBSERVATIONS 1026

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.9	6.6	6.0	.9	.5	.1						18.0	8.4	8.0
020-040	1.5	2.9	2.8	.7								8.0	8.8	8.0
050-070	.9	1.2	.1	.1								2.4	6.0	6.0
(E) 080-100	1.2	.5	.4									2.0	5.2	4.0
110-130	.8	.2	.2	.1								1.4	6.0	3.5
140-160	1.1	1.1	.4									2.5	5.1	5.0
(S) 170-190	2.7	4.9	1.3	.4								9.3	6.7	6.0
200-220	2.6	6.2	2.1	.2								11.2	7.1	7.0
230-250	2.2	1.6	1.5	.2	.1							5.8	7.0	6.0
(W) 260-280	1.3	1.8	.5									3.5	5.9	5.0
290-310	1.6	2.4	2.0	.4								6.4	7.5	7.5
320-340	2.0	3.5	4.4	.5	.4							10.7	8.7	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	18.8	//////	//////
TOTALS	21.8	32.9	21.7	3.5	1.0	.1						100.0	6.1	7.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	5.9	6.6	.6	.5	.4						16.4	9.3	9.0
020-040	1.8	4.7	3.1	1.2	.2							11.0	9.0	8.0
050-070	.8	2.0	.4									3.2	6.3	6.0
(E) 080-100	1.2	.2										1.4	3.6	3.5
110-130	.8	.2	.1	.2	.1							1.5	7.4	4.0
140-160	1.2	.2		.2								1.6	4.9	2.5
(S) 170-190	2.6	2.2	1.4	.2	.1							6.6	6.9	5.0
200-220	3.5	5.3	2.5									11.3	6.4	6.0
230-250	3.1	3.2	.7	.2	.1							7.3	6.0	5.5
(W) 260-280	.6	1.6	.4		.2							2.8	8.0	6.0
290-310	2.8	4.4	1.1	.4	.1							8.7	6.6	6.0
320-340	1.8	5.5	3.1	.8	.1							11.3	8.4	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	16.8	////	////
TOTALS	22.7	35.4	19.4	3.8	1.4	.4						100.0	6.3	7.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.1	7.8	6.1	1.4	.4	.2	.1					20.1	8.6	8.0
020-040	1.9	3.5	3.9	.4								9.7	8.3	8.0
050-070	1.3	2.2	.8			.2	.1					4.7	8.1	7.0
(E) 080-100	.4	.6	.2									1.2	6.4	6.0
110-130	.8	.5	.2	.1		.1						1.8	7.2	5.0
140-160	.6	.6	.6	.1								1.9	8.1	8.0
(S) 170-190	1.5	2.9	.9	.1	.4							5.9	7.5	7.0
200-220	2.9	5.7	2.5	.4								11.4	7.4	8.0
230-250	2.5	2.7	1.4									6.6	6.0	5.5
(W) 260-280	2.0	1.4	1.3	.2								4.9	6.7	6.0
290-310	2.7	2.2	1.3	.2								6.5	6.4	6.0
320-340	2.4	4.5	3.8	.8	.2							11.7	8.4	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.7	////	////
TOTALS	23.1	34.6	23.0	3.7	1.0	.5	.2					100.0	6.7	7.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	9.5	8.1	1.6	.5	.2						22.1	9.6	9.0
020-040	2.6	3.9	6.2	1.1								13.8	9.2	10.0
050-070	1.1	2.7	1.8	.5	.1	.4						6.5	9.3	8.0
(E) 080-100	.7	2.0	.5									3.2	6.2	6.0
110-130	.6	1.2	.6									2.4	6.6	6.0
140-160	1.1	.7	1.3	.2								3.3	7.6	7.0
(S) 170-190	.5	1.8	1.5	.2								4.0	8.9	8.5
200-220	.8	3.4	4.4	1.5	.4							10.5	10.4	10.0
230-250	.8	3.5	1.8	1.8	.1							8.0	9.8	9.0
(W) 260-280	.7	2.4	2.2	.5	.1							5.9	9.2	9.0
290-310	1.3	2.7	1.6	.7	.1							6.5	8.7	8.0
320-340	.9	2.7	4.7	1.3	.4							10.0	10.5	10.0
VARIABLE														
CALM												3.9		
TOTALS	13.2	36.5	34.7	9.4	1.7	.6						100.0	9.0	9.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	7.3	5.7	1.1	.4	.1						15.7	9.5	9.0
020-040	1.5	5.8	7.8	.9	.2							16.3	9.5	10.0
050-070	1.2	5.8	2.1	.2	.1	.2						9.7	8.4	8.0
(E) 080-100	1.8	2.5	.4			.1						4.7	6.5	6.0
110-130	.9	3.1	.6									4.6	6.3	6.0
140-160	.8	1.3	.6	.2								2.9	7.2	6.0
(S) 170-190	.2	1.9	1.3									3.4	8.2	8.0
200-220	.1	2.5	2.5	2.6	.8	.1						8.6	13.0	13.0
230-250	.6	4.0	3.9	1.5	.4							10.4	10.4	10.0
(W) 260-280	.6	3.3	2.2	1.2	.2							7.5	9.8	9.0
290-310	.6	2.1	1.5	.8	.1							5.2	9.6	8.0
320-340	1.2	3.4	3.3	1.3	.6	.1						9.9	10.	10.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	1.2	////	////
TOTALS	10.7	43.0	31.9	9.8	2.8	.6						100.0	9.4	9.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	4.8	3.4	.9	.1							10.5	8.9	8.0
020-040	1.2	7.9	4.0	1.6	.1							14.8	9.2	8.0
050-070	2.1	6.6	2.8	.4								11.9	7.4	7.0
(E) 080-100	1.3	4.9	.6	.1	.1							7.1	7.1	7.0
110-130	1.6	5.7	.6									7.9	6.2	6.0
140-160	.6	1.9	.2									2.7	6.3	6.0
(S) 170-190	.6	2.0	1.6	.1	.1							4.5	8.8	8.0
200-220	.1	2.8	2.9	1.1	.2							7.2	10.9	10.0
230-250	.7	3.4	3.9	.8	.4	.1						9.3	10.4	10.0
(W) 260-280	.9	2.5	2.5	.9	.1							6.9	9.4	10.0
290-310	.4	2.2	2.4	.9								5.9	10.3	10.0
320-340	1.1	3.7	3.7	.8	.4	.1						9.7	10.0	10.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	1.6	////	////
TOTALS	11.8	48.4	28.6	7.6	1.5	.2						100.0	8.7	8.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	3.9	3.4	1.1	.6							11.8	9.0	8.5
020-040	3.7	5.2	3.3	.9								13.1	7.7	8.0
050-070	2.9	3.5	.7									7.2	5.5	5.0
(E) 080-100	2.5	2.1	.2	.1	.1							5.1	5.6	5.0
110-130	2.1	3.4	.1			.1						5.8	5.5	5.0
140-160	3.2	4.0	.4									7.5	5.3	5.0
(S) 170-190	1.4	2.6	1.9	.2								6.1	7.8	8.0
200-220	1.8	4.0	2.0	.4								8.1	7.5	6.0
230-250	1.8	1.1	.9		.2	.1						4.1	7.6	6.0
(W) 260-280	1.6	1.2	1.2	.1								4.1	6.9	5.0
290-310	3.2	1.3	.6	.4								5.4	5.4	4.0
320-340	2.1	3.2	2.2	.8								8.4	7.9	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.3	//////	//////
TOTALS	29.1	35.5	16.9	4.0	.9	.2						100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.7	5.3	3.1	2.1	.6							15.8	8.4	7.5
020-040	2.7	4.0	1.6	.6								9.0	7.[illegible]	7.0
050-070	2.1	2.0	.7	.1								4.9	5.9	5.0
(E) 080-100	1.1	1.1	.4									2.5	6.3	6.0
110-130	1.9	.4	.6									2.8	4.8	3.0
140-160	1.8	2.6	.5									4.8	5.6	6.0
(S) 170-190	2.5	7.2	.9	.2								10.8	6.6	6.0
200-220	2.2	3.7	2.2	.4								8.5	7.7	7.0
230-250	1.5	1.8	.5		.2	.1						4.1	7.5	7.0
(W) 260-280	1.3	1.2	.8	.4								3.7	6.9	6.0
290-310	1.9	2.0	1.4	.4	.1							5.8	7.5	6.0
320-340	1.6	2.2	3.5	1.2	.2							8.8	9.7	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	18.5	//////	//////
TOTALS	25.3	33.5	16.2	5.4	1.1	.1						100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	6.4	5.3	1.2	.4	.1	.0					16.3	9.0	8.0
020-040	2.1	4.7	4.1	.9	.1							11.9	8.7	8.0
050-070	1.6	3.3	1.2	.2	.0	.1	.0					6.3	7.3	7.0
(E) 080-100	1.3	1.7	.3	.0	.0	.0						3.4	6.2	6.0
110-130	1.2	1.8	.4	.1	.0	.0						3.5	6.1	6.0
140-160	1.3	1.5	.5	.1								3.4	6.1	6.0
(S) 170-190	1.5	3.2	1.4	.2	.1							6.3	7.4	7.0
200-220	1.8	4.2	2.6	.8	.2	.0						9.6	8.6	8.0
230-250	1.6	2.7	1.8	.6	.2	.0						6.9	8.4	8.0
(W) 260-280	1.1	1.9	1.4	.4	.1							4.9	8.2	8.0
290-310	1.8	2.4	1.5	.5	.1							6.3	7.7	7.0
320-340	1.6	3.6	3.6	.9	.3	.0						10.1	9.2	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.0	////	////
TOTALS	19.7	37.4	24.1	5.9	1.5	.2						100.0	7.3	8.0

TOTAL NUMBER OF OBSERVATIONS 6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	11.6	9.0	2.6	2.0	.3						28.5	10.0	9.0
020-040	2.3	6.0	8.0	3.0	.4							19.6	10.2	10.0
050-070	1.6	2.9	2.7	.3		.7	.1					8.3	9.9	9.0
(E) 080-100	.5	1.4	.4	.2	.1	.1						2.7	8.8	7.0
110-130	.8	.2	.3			.1						1.3	6.6	4.0
140-160	.5	.6	.2									1.3	6.2	5.0
(S) 170-190	.6	1.3	.2		.2							2.3	7.5	7.5
200-220	.2	2.3	.5									3.0	7.5	8.0
230-250	2.0	2.6	1.3									6.0	6.5	6.5
(W) 260-280	.9	1.9	.8		.1							3.7	7.4	8.0
290-310	1.3	2.2	.3	.4								4.2	6.6	6.0
320-340	2.2	5.3	1.8	.7	.3	.1						10.4	7.9	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	8.8	////	////
TOTALS	15.9	38.3	25.5	7.2	3.1	1.3	.1					100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 1039

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	4.2	4.2	1.3	.8	.1						11.4	10.7	10.0
020-040	.5	3.9	2.6	1.7	.6							9.4	10.9	10.0
050-070	.6	1.6	1.2	.4	.2							4.1	9.1	8.5
(E) 080-100	1.3	1.1	.1									2.5	5.0	4.0
110-130	.6	1.5	.4									2.6	6.2	6.0
140-160	1.8	1.3	.4									3.5	5.4	4.0
(S) 170-190	4.0	4.4	2.0	.2	.3							11.0	6.6	6.0
200-220	2.6	5.9	3.9	.6	.2							13.2	8.0	8.0
230-250	1.2	1.5	2.3	.2	.1	.1						5.4	9.1	9.5
(W) 260-280	1.4	2.8	1.2	.1	.1							5.6	7.0	6.0
290-310	2.8	4.1	1.2	.5								8.6	6.5	5.5
320-340	2.3	3.3	2.2	.9	.1							8.7	7.9	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.1	////	////
TOTALS	20.0	35.6	21.7	5.9	2.4	.2						100.0	7.0	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	5.9	3.1	1.9	.5	.1	.1					14.2	9.6	9.0
020-040	1.9	2.2	4.3	1.4	.3	.1						10.2	10.3	10.0
050-070	1.2	1.3	1.1	.2	.2							4.0	7.9	6.0
(E) 080-100	1.0	.5	.1		.1							1.7	5.3	4.0
110-130	1.0	1.1	.1									2.2	5.5	5.0
140-160	.6	1.3	.9									2.8	7.1	6.0
(S) 170-190	2.2	3.0	1.2	.1								6.5	6.2	6.0
200-220	2.0	5.9	3.2	1.2								12.4	8.3	8.0
230-250	1.1	3.8	1.9	.5	.1							7.4	8.7	8.0
(W) 260-280	2.9	1.6	1.1	.4								6.0	6.4	5.0
290-310	3.7	4.3	.5	.2								8.7	5.4	5.0
320-340	2.3	3.7	2.6	.4	.1							9.0	7.5	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.9	////	////
TOTALS	22.4	34.6	20.1	6.3	1.3	.2	.1					100.0	6.8	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	4.6	4.9	1.5	1.2							14.0	10.4	10.0
020-040	1.1	4.8	4.5	1.5	.4							12.4	9.9	10.0
050-070	.9	1.4	1.1	.3	.1							3.8	8.1	7.0
(E) 080-100	2.0	1.5	.4	.1	.1							4.2	6.0	5.0
110-130	1.1	1.0	.4									2.5	5.7	6.0
140-160	.3	.5	.6	.1								1.6	9.0	9.0
(S) 170-190	1.2	2.4	2.0	.4								6.0	8.4	7.5
200-220	1.8	5.8	3.7	1.0	.4							12.7	8.7	8.0
230-250	2.5	2.9	2.6	.4								8.4	7.6	7.5
(W) 260-280	2.6	2.2	1.3	.5	.4							7.0	7.9	6.0
290-310	2.8	3.2	.9	.1								7.0	5.8	6.0
320-340	3.8	2.3	2.5	1.1								9.6	7.9	6.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	11.0	//////	//////
TOTALS	21.8	32.6	24.9	7.0	2.6							100.0	7.5	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	4.9	8.5	2.4	.2							17.5	10.7	10.0
020-040	1.8	6.6	4.8	1.6	.3							15.2	9.3	9.0
050-070	1.4	3.3	2.2	.2	.3							7.4	8.4	8.0
(E) 080-100	.8	1.8	.3	.1								3.0	6.4	6.0
110-130	2.0	3.2	.6	.1								6.0	6.6	6.0
140-160	.6	1.0	.1	.1								1.8	5.8	5.0
(S) 170-190	1.1	1.9	2.0	1.3	.1	.1						6.6	10.4	10.0
200-220	.1	3.1	4.3	1.2	.1	.1						8.9	10.9	11.0
230-250	.4	1.8	4.8	2.0	.5							9.7	12.1	12.0
(W) 260-280	1.0	1.9	2.9	1.0	.2							7.0	10.2	10.0
290-310	.8	1.6	1.9	1.3	.1							5.7	10.5	11.0
320-340	.3	2.5	4.0	1.9	.2							8.9	11.5	11.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	2.3	//////	//////
TOTALS	11.8	33.6	36.4	13.2	2.0	.2						100.0	9.8	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	3.4	5.4	1.8	.4							11.6	11.0	10.0
020-040	.8	5.6	7.1	1.8	.3							15.6	10.2	10.0
050-070	1.4	7.7	2.7	.3	.2							12.4	7.9	8.0
(E) 080-100	1.2	4.8	1.1	.2								7.3	6.7	6.0
110-130	1.0	4.4	.6									6.0	6.7	7.0
140-160	.4	1.6	.2									2.3	6.9	7.0
(S) 170-190	.3	2.0	2.5	.6	.2							5.7	10.6	10.0
200-220	.2	1.3	3.9	2.2	.4	.1						8.1	12.9	13.0
230-250	.1	1.9	3.4	2.8	.9	.2						9.4	13.5	13.0
(W) 260280	.4	1.6	1.4	2.6	.1							6.1	12.1	13.0
290-310	.1	1.4	3.5	.8	.4	.1						6.3	11.8	12.0
320-340	.2	1.7	4.3	1.7	.2							8.2	12.0	12.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	1.1	//////	//////
TOTALS	6.6	37.4	36.1	14.8	3.1	.4						100.0	10.3	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.2	2.5	3.0	1.1	.4	.1						7.3	11.3	10.0
020-040	.9	5.7	6.0	2.0	.3							14.9	10.7	10.0
050-070	1.6	8.4	3.9	.3	.3							14.5	8.3	8.0
(E) 080-100	2.8	5.6	1.0									9.4	6.2	6.0
110-130	1.5	7.0	1.8									10.3	7.3	7.5
140-160	.6	1.1	.8	.2								2.7	8.0	8.0
(S) 170-190	.5	1.4	2.0	1.3	.2							5.5	11.5	12.0
200-220	.3	1.9	3.7	2.5	.2							8.6	12.1	12.5
230-250	.1	1.0	2.6	2.0	.4							6.1	13.4	13.0
(W) 260-280	.1	1.2	2.3	1.2	.3							5.1	12.1	13.0
290-310	.4	1.9	2.5	1.0		.1						5.9	10.8	10.0
320-340	.3	1.8	4.5	1.6	.1	.1						8.5	11.4	11.0
VARIABLE														
CALM												1.2		
TOTALS	9.3	39.5	34.1	13.2	2.2	.3						100.0	9.8	10.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	4.1	3.7	.9	.1	.2						10.8	9.1	8.0
020-040	2.5	4.0	3.3	1.5	.2							11.5	8.8	8.0
050-070	2.7	3.9	1.6	.4	.3							8.9	7.6	7.0
(E) 080-100	3.1	3.3	.8									7.2	5.4	5.0
110-130	3.7	6.0	.5									10.2	5.4	5.0
140-160	2.7	4.4	.9	.1								8.1	5.9	5.0
(S) 170-190	1.2	2.6	1.8	1.3	.3							7.2	9.9	9.0
200-220	1.2	3.3	3.4	.2								8.2	8.8	9.0
230-250	.3	1.5	1.6	.2								3.7	9.1	9.5
(W) 260-280	.6	2.2	1.9	.8	.1	.1						5.7	9.9	10.0
290-310	1.3	2.2	1.6	.3	.1							5.5	8.2	8.0
320-340	1.1	1.4	2.3	.3	.3							5.4	9.8	10.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	.7	////	////
TOTALS	22.2	38.9	23.4	6.0	1.4	.3						100.0	7.4	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	3.7	3.7	.8	.5							11.5	8.6	8.0
020-040	1.3	3.0	3.5	.9	.8	.1						9.6	10.4	10.0
050-070	.5	2.8	1.9	.3	.3							5.9	9.4	8.0
(E) 080-100	1.8	.6	.3									2.8	4.5	4.0
110-130	2.5	2.3	.1									4.8	4.6	4.0
140-160	3.0	2.3	.4									5.7	5.0	4.0
(S) 170-190	3.8	7.7	2.2	.9	.1							14.6	7.3	7.0
200-220	1.6	3.1	2.8	1.0	.1							8.6	8.9	9.0
230-250	1.2	1.6	1.5		.2	.1						4.6	8.6	8.0
(W) 260-280	1.7	1.7	1.0	.2	.1							4.7	7.4	7.0
290-310	1.6	2.3	1.4	.6	.1							6.0	8.1	8.0
320-340	1.2	2.5	2.6	.6	.3	.1						7.3	9.8	9.5
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.8	//////	//////
TOTALS	23.1	33.6	21.4	5.3	2.5	.3						100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	4.2	4.6	1.5	.5	.1	.0					12.3	10.2	10.0
020-040	1.3	4.5	4.5	1.6	.4	.0						12.3	10.0	10.0
050-070	1.3	3.8	1.9	.3	.3							7.6	8.3	8.0
(E) 080-100	1.7	2.4	.5	.1	.0							4.8	5.9	5.0
110-130	1.7	3.3	.6	.0								5.6	6.2	6.0
140-160	1.3	1.7	.5	.1								3.6	6.2	5.0
(S) 170-190	1.8	3.2	2.0	.8	.2	.0						7.9	8.4	8.0
200-220	1.2	3.8	3.6	1.2	.2	.0						10.1	9.6	9.5
230-250	.9	2.0	2.6	1.0	.3	.1						6.8	10.5	10.0
(W) 260-280	1.3	1.9	1.6	.8	.2	.0						5.9	9.1	9.0
290-310	1.7	2.6	1.7	.6	.1	.0						6.7	8.1	7.0
320-340	1.4	2.4	3.1	1.1	.2	.0						8.2	9.7	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	8.3	//////	//////
TOTALS	17.1	35.8	27.2	9.1	2.4	.2						100.0	8.2	8.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	7.3	4.6	3.7	1.2	.2	.1					19.2	10.8	10.0
020-040	1.7	4.9	5.2	5.0	2.7	.2						19.6	12.6	13.0
050-070	1.7	2.5	3.4	1.2	1.2							10.0	10.6	10.0
(E) 080-100	1.6	2.1	1.5	.3	.2							5.7	7.9	7.0
110-130	1.0	2.1	1.1	.1								4.2	7.3	7.0
140-160	.5	1.1	2.3	.3								4.2	10.2	10.5
(S) 170-190	1.2	1.9	1.5	.1	.1							4.8	8.0	7.0
200-220	.5	1.7	1.7									3.9	8.5	9.0
230-250	.5	1.4	1.0	.1								3.0	8.0	8.0
(W) 260-280	.5	1.7	1.4	.2	.3							4.1	9.5	9.0
290-310	1.0	2.8	1.6	.1								5.4	7.4	8.0
320-340	2.2	3.5	3.5	.8	.1	.1						10.3	8.7	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	5.4	////	////
TOTALS	14.5	33.0	28.8	11.9	5.8	.5	.1					100.0	9.4	9.0

TOTAL NUMBER OF OBSERVATIONS 942

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	2.3	2.9	.8	.3							7.6	9.9	10.0
020-040	1.3	2.9	1.7		.2	.1						6.2	8.3	8.0
050-070	1.2	1.6	1.3	.2	.1							4.4	7.9	9.0
(E) 080-100	1.4	.9	.3	.2								2.9	6.1	4.5
110-130	1.8	1.9	.1	.1								3.9	5.3	5.0
140-160	1.8	1.3		.1								3.2	4.8	4.0
(S) 170-190	2.7	4.7	1.3	.2	.1							9.0	6.5	6.0
200-220	2.3	5.6	5.8	1.0								14.7	8.5	8.0
230-250	3.0	2.4	1.7	.6								7.7	6.9	6.0
(W) 260-280	2.3	2.4	1.0	.2								6.0	6.1	6.0
290-310	3.6	2.3	1.1	.1		.1						7.2	5.9	5.0
320-340	1.7	2.3	2.7	.4	.1							7.2	8.6	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.0	//////	//////
TOTAL	24.3	30.6	19.9	3.9	.8	.2						100.0	5.9	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	3.3	3.8	1.2	.1							9.8	9.5	10.0
020-040	2.2	2.9	1.6	.8	.2							7.7	8.0	8.0
050-070	.6	1.6	.8	.4	.1							3.4	9.0	8.0
(E) 080-100	1.6	.9	.6	.1								3.1	5.8	4.5
110-130	2.4	.8										3.2	3.4	3.0
140-160	.7	.8										1.4	4.8	6.0
(S) 170-190	2.6	2.4	1.4	.2	.2							6.9	7.4	7.0
200-220	2.6	5.9	3.4	.2								12.1	7.1	6.0
230-250	4.3	2.4	3.3	.1								10.2	6.7	5.0
(W) 260-280	3.0	3.0	1.1	.2	.2							7.6	6.4	6.0
290-310	3.9	1.8	.8									6.4	4.8	4.0
320-340	1.1	2.9	2.1	.8	.1							7.0	8.9	8.0
VARIABLE														
CALM												21.1		
TOTALS	26.3	28.7	18.9	4.0	.9							100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	4.0	3.9	1.0	.6							11.8	9.3	9.0
020-040	1.8	3.4	1.8	.2	.1							7.3	7.6	7.0
050-070	.6	2.7	2.6	.4								6.2	9.1	9.0
(E) 080-100	.6	.8	.2	.3								1.9	7.8	7.0
110-130	1.2	1.0										2.2	4.4	4.0
140-160	1.3	2.2	.2									3.8	5.3	5.0
(S) 170-190	1.3	2.4	1.7	.1								5.6	7.3	8.0
200-220	2.2	5.1	3.3	.9	.2							11.8	8.5	8.0
230-250	2.7	3.7	3.6	.7								10.6	8.1	8.0
(W) 260-280	1.8	3.1	2.1	.1	.3							7.4	7.9	7.0
290-310	3.0	3.6	1.4									8.0	6.2	6.0
320-340	1.6	4.0	2.2	.9								8.7	8.4	8.0
VARIABLE														
CALM												14.8		
TOTALS	20.4	36.0	23.0	4.6	1.2							100.0	6.7	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	4.2	5.9	.8		.3						13.0	9.7	10.0
020-040	1.2	5.8	3.4	.9	.2							11.6	8.9	8.0
050-070	1.4	4.6	2.4	.1								8.6	7.6	7.0
(E) 080-100	.8	3.2	1.3	.2								5.6	7.7	8.0
110-130	1.3	2.1	.7									4.1	6.5	6.0
140-160	.2	1.6	.7									2.4	7.7	8.0
(S) 170-190	1.0	3.0	2.2	.8	.1							7.1	9.1	8.0
200-220	1.1	3.4	2.9	2.4	.2							10.1	10.6	10.0
230-250	.4	3.3	4.6	.9	.2							9.4	10.5	10.0
(W) 260-280	.6	3.6	3.7	.1	.4	.2						8.6	10.1	10.0
290-310	1.0	2.8	3.3	.8	.2	.1						8.2	10.0	10.0
320-340	1.6	4.1	2.3	.9								8.9	8.6	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.4	////	////
TOTALS	12.4	41.7	33.4	7.9	1.3	.6						100.0	9.0	9.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	3.0	3.9	.9	.3	.2						9.1	10.8	10.0
020-040	1.0	3.9	5.2	.2	.3							10.7	9.5	10.0
050-070	1.3	7.3	3.6									12.2	7.9	8.0
(E) 080-100	1.2	4.9	3.0	.3								9.4	7.9	8.0
110-130	1.2	4.9	1.4									7.6	7.2	7.0
140-160	.7	2.0	.7									3.3	7.4	8.0
(S) 170-190	.6	3.1	2.2	.3	.2							6.4	9.4	9.0
200-220	.3	2.0	5.0	2.9	.6	.2						11.0	12.8	13.0
230-250	.6	2.6	2.7	2.2	.8							8.8	11.7	12.0
(W) 260-280	1.0	2.3	3.2	1.0	.7	.2						8.4	11.3	10.0
290-310	.4	2.2	3.7	.8								7.1	10.2	10.0
320-340	.4	1.3	2.2	.7	.1							4.8	10.7	11.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	1.1	//////	//////
TOTALS	9.5	39.5	36.8	9.3	3.0	.6						100.0	9.7	10.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	1.4	2.6	.3	.7							5.7	10.7	11.0
020-040	1.4	3.7	3.4	.7	.2							9.4	9.0	9.0
050-070	1.4	8.0	3.9	.4								13.8	7.9	8.0
(E) 080-100	1.8	8.2	2.3									12.3	7.1	7.0
110-130	2.7	6.1	3.2	.1								12.1	7.2	7.0
140-160	.4	2.2	1.7	.1								4.4	8.7	8.0
(S) 170-190	.4	.8	2.7	.7	.1							4.7	11.2	12.0
200-220	.6	1.8	4.6	2.0	.4							9.3	12.3	12.0
230-250	.7	2.2	3.4	.8	1.1							8.2	11.4	11.0
(W) 260-280	.6	1.8	2.4	1.7	.2							6.7	11.1	12.0
290-310	.7	2.1	2.9	.7	.6	.1						7.0	11.0	10.0
320-340	.4	1.7	2.3	.7								5.1	10.0	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	1.2	//////	//////
TOTALS	11.8	40.0	35.4	8.2	3.3	.1						100.0	9.3	9.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	2.0	1.2	.9		.1						5.4	9.0	8.0
020-040	1.2	2.7	2.0	.2	.4	.1						6.7	9.1	8.5
050-070	2.7	4.0	1.6									8.2	6.5	6.0
(E) 080-100	4.8	6.2	.9	.1								12.0	5.7	5.0
110-130	5.6	5.9	.9	.2								12.6	5.3	5.0
140-160	2.6	4.6	1.8	.3								9.2	6.9	7.0
(S) 170-190	1.0	1.9	3.4	1.0								7.3	10.2	11.0
200-220	1.1	3.3	3.4	.8	.3							9.0	9.7	10.0
230-250	1.4	1.8	1.7	.6	.1							5.6	8.7	8.0
(W) 260-280	1.1	2.0	1.7	.2	.2							5.2	8.3	7.0
290-310	1.2	1.9	1.3	.7	.1							5.2	8.5	9.0
320-340	.7	2.2	2.0	.6	.1	.1						5.7	10.0	9.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	7.9	//////	//////
TOTALS	24.6	38.5	21.9	5.6	1.2	.3						100.0	7.2	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	1.8	2.4	1.2	.6							8.1	9.8	10.0
020-040	1.4	2.4	1.6	.1	.2	.1						5.9	7.9	7.0
050-070	1.1	1.8	1.2	.1								4.2	7.3	7.5
(E) 080-100	2.6	2.6	1.3									6.4	6.0	6.0
110-130	2.8	1.9	.4									5.1	4.5	4.0
140-160	2.8	3.8	.8	.6								7.9	6.2	6.0
(S) 170-190	4.0	6.3	2.9	1.2								14.4	7.5	7.0
200-220	1.8	3.1	4.6	.3	.1							9.9	8.8	10.0
230-250	1.7	3.2	1.7	.7	.2							7.4	8.2	7.0
(W) 260-280	1.8	2.1	.8	.1		.1	.1					5.0	7.6	7.0
290-310	1.4	1.9	.9	.2								4.4	6.9	6.0
320-340	1.6	1.6	2.0		.1							5.2	7.7	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	15.9	////	////
TOTALS	25.1	32.5	20.6	4.5	1.2	.2	.1					100.0	6.3	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	2.8	3.3	.9	.3	.1						8.8	9.8	10.0
020-040	1.5	3.5	2.6	.4	.3	.0						8.2	8.6	8.0
050-070	1.3	3.9	2.2	.2	.0							7.6	7.8	8.0
(E) 080-100	1.8	3.5	1.3	.2								6.7	6.8	6.0
110-130	2.4	3.1	.8	.1								6.3	5.9	6.0
140-160	1.3	2.3	.7	.1								4.5	6.6	6.0
(S) 170-190	1.7	3.1	2.2	.6	.1							7.7	8.3	8.0
200-220	1.5	3.8	4.1	1.3	.2	.0						11.0	9.7	10.0
230-250	1.8	2.7	2.8	.8	.3							8.5	9.0	9.0
(W) 260-280	1.5	2.5	2.0	.5	.3	.1	.0					6.9	8.8	8.0
290-310	1.9	2.3	1.9	.4	.1	.0						6.7	8.0	8.0
320-340	1.1	2.5	2.2	.6	.1	.0						6.6	9.0	9.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.6	//////	//////
TOTALS	19.2	36.0	26.1	6.1	1.7	.2						100.0	7.5	8.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	7.1	10.3	3.0	1.6	.1						23.9	10.9	10.0
020-040	1.4	7.1	5.9	1.3	2.3	.4						18.4	11.0	10.0
050-070	1.8	6.2	3.7	.4								12.2	8.0	8.0
(E) 080-100	1.6	3.0	.7	1.1								6.4	8.2	7.0
110-130	1.8	2.3	.6									4.7	5.9	5.0
140-160	.4	1.4	.8	.3								3.0	7.9	7.0
(S) 170-190	.7	2.3	.7	.1								3.8	7.3	7.0
200-220	2.1	2.4	1.0	.1	.3							5.9	6.9	6.0
230-250	1.4	.4	.4		.1							2.4	6.6	4.0
(W) 260-280	1.1	1.1	.3									2.5	5.5	5.5
290-310	1.3	1.7	.1									3.1	5.2	6.0
320-340	1.1	2.7	1.8	.7	.4							6.8	9.7	8.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	6.8	////	////
TOTALS	16.5	37.7	26.3	7.0	4.7	.5						100.0	8.5	8.0

TOTAL NUMBER OF OBSERVATIONS 706

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	2.3	2.2	.8								6.5	8.6	8.5
020-040	1.2	2.6	1.0									4.7	6.7	6.0
050-070	.9	2.6	1.0									4.4	6.7	6.0
(E) 080-100	2.0	1.1										3.1	4.4	4.0
110-130	2.2	1.0										3.1	4.0	4.0
140-160	2.9	1.7	.2									4.8	4.6	4.0
(S) 170-190	3.5	5.9	1.5		.2							11.2	6.5	6.0
200-220	4.1	11.0	5.2	.4								20.6	7.4	8.0
230-250	2.9	3.2	1.5	.2								7.8	6.7	6.0
(W) 260-280	2.5	2.4	.1									4.9	4.7	4.5
290-310	1.7	1.9	.2									3.9	5.1	5.0
320-340	.5	1.8	.6	.1								3.1	7.6	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	21.7	////	////
TOTALS	25.7	37.5	13.5	1.5	.2							100.0	5.1	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	3.3	1.5	.3	.1							6.7	7.6	7.0
020-040	1.1	2.3	1.9	.2								5.5	8.1	8.0
050-070	1.1	2.2	1.0		.1							4.3	7.0	7.0
(E) 080-100	1.4	.6										2.0	3.7	4.0
110-130	.6	.8	.1									1.5	5.6	6.0
140-160	2.6	.8	.1									3.4	4.1	4.0
(S) 170-190	2.7	3.8	.6									7.1	5.7	5.5
200-220	3.8	11.0	4.1	.1								18.9	7.1	7.0
230-250	3.3	5.3	2.3	.1								11.0	6.6	6.0
(W) 260-280	3.1	2.4	.4									5.9	4.7	4.0
290-310	3.5	2.2	.2									5.9	4.2	4.0
320-340	1.8	1.8	1.0	.1								4.7	6.3	6.0
VARIABLE														
CALM												23.0		
TOTALS	26.4	36.5	13.2	.8	.2							100.0	4.8	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	5.3	1.5									8.4	6.7	6.0
020-040	.9	2.6	3.2	.1								6.8	8.5	9.0
050-070	1.4	3.2	1.8	.2								6.7	7.6	7.0
(E) 080-100	.5	.9										1.4	4.8	5.0
110-130	1.4	1.2										2.6	4.3	4.0
140-160	1.2	2.0	.3	.1								3.7	6.0	6.0
(S) 170-190	2.0	3.4	.5	.1								6.1	6.2	6.0
200-220	3.0	7.6	4.0	.8								15.4	7.9	8.0
230-250	3.2	6.7	5.3	.2								15.4	7.7	8.0
(W) 260-280	2.5	3.2	.8									6.5	5.4	5.0
290-310	3.3	3.1	.4	.1								7.0	5.3	5.0
320-340	2.3	2.2	1.5	.3								6.2	6.9	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	14.0	//////	//////
TOTALS	23.3	41.4	19.3	1.9								100.0	6.0	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	5.5	3.5	.2	.1							10.8	8.2	8.0
020-040	2.9	4.9	3.2	.4								11.5	7.5	8.0
050-070	3.0	3.8	1.4	.5								8.7	6.8	6.0
(E) 080-100	1.5	3.1										4.6	5.5	5.0
110-130	1.1	2.7										3.8	5.5	5.0
140-160	.8	2.2	.4									3.3	6.4	6.0
(S) 170-190	1.7	2.4	1.6	.1								5.8	7.3	8.0
200-220	1.4	5.6	5.8	1.0								13.8	9.3	9.0
230-250	1.8	5.8	5.5	1.1								14.2	8.9	9.0
(W) 260-280	1.3	4.8	2.2	.1								8.4	7.5	8.0
290 310	.9	3.0	.8									4.6	6.8	7.0
320-340	1.4	2.7	2.3	.2								6.6	7.7	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	4.0	////	////
TOTALS	19.2	46.5	26.7	3.6	.1							100.0	7.4	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	3.4	1.6	.9	.1							7.5	8.5	8.0
020-040	1.5	6.0	3.2									10.8	8.1	8.0
050-070	4.0	8.5	3.4	.3								16.2	7.0	7.0
(E) 080-100	2.3	5.8	1.1									9.1	6.3	6.0
110-130	1.9	4.8	1.1									7.8	6.3	6.0
140-160	.6	1.1	1.0									2.7	7.0	7.0
(S) 170-190	.6	2.8	3.0	.1								6.6	8.6	8.0
200-220	.8	3.0	5.2	1.0								9.9	10.3	10.0
230-250	1.3	6.1	5.4	1.2	.2							14.2	9.3	9.0
(W) 260-280	1.0	1.8	2.2	.1								5.1	7.9	8.0
290-310	1.3	2.3	1.4									4.9	6.9	7.0
320-340	.8	1.5	1.3									3.5	7.7	7.0
VARIABLE														
CALM												1.6		
TOTALS	17.6	47.1	29.9	3.6	.3							100.0	7.8	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	1.9	1.6	.4								4.7	8.5	8.0
020-040	1.0	4.8	3.1	.1								9.0	8.2	8.0
050-070	2.3	8.7	2.4	.2								13.5	7.0	7.0
(E) 080-100	3.0	9.7	1.7									14.4	6.6	6.5
110-130	2.7	9.8	2.0									14.5	6.7	7.0
140-160	1.0	2.6	1.3	.1								4.9	7.2	6.0
(S) 170-190	.3	1.7	2.4	.2								4.6	9.5	10.0
200-220	.4	2.9	5.4	.9	.1							9.7	10.3	10.0
230-250	.8	4.0	4.5	.6	.1							10.0	9.5	10.0
(W) 260-280	.6	2.4	1.2	.2	.1	.1						4.6	9.0	8.0
290-310	.8	2.7	1.1	.1								4.6	7.5	7.0
320-340	.4	1.5	.9	.1								2.9	8.2	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.4	////	////
TOTALS	14.1	52.7	27.6	2.9	.3	.1						100.0	7.8	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE IND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.6	1.6	.4								4.8	8.4	8.0
020-040	2.0	3.0	1.8	.2								7.1	6.8	5.5
050-070	2.2	4.8	1.5									8.5	6.9	7.0
(E) 080-100	4.6	5.9	.4									11.0	5.2	5.0
110-130	4.7	6.8	1.1									12.6	5.6	5.0
140-160	4.6	5.5	1.7									11.8	5.8	5.0
(S) 170-190	2.2	4.5	1.7									8.4	6.5	6.0
200-220	1.2	6.2	2.5									9.9	7.5	7.0
230-250	2.2	3.7	1.0	.1	.1							7.0	6.5	6.0
(W) 260-280	1.5	1.8	.3		.2							3.9	6.4	6.0
290-310	1.1	1.2	.1	.3								2.7	6.6	6.0
320-340	.2	1.2	.5	.1	.1							2.2	9.0	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.2	////	////
TOTALS	27.7	46.2	14.2	1.1	.4							100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	1.7	2.5	.5								6.2	8.5	9.0
020-040	1.0	1.2	1.9	.1								4.2	8.1	9.0
050-070	1.6	2.6	.8	.1								5.1	6.5	6.0
(E) 080-100	2.6	2.3	.5									5.4	5.1	5.0
110-130	4.1	2.0		.1								6.2	4.3	4.0
140-160	4.2	2.9	.3	.1								7.5	4.6	4.0
(S) 170-190	4.2	8.4	4.2	.2	.1							17.1	7.2	7.0
200-220	3.2	7.8	3.1									14.2	6.8	7.0
230-250	1.8	2.7	.3									4.8	5.4	5.0
(W) 260-280	1.8	1.8	.5									4.2	5.5	5.0
290-310	1.5	1.0	.4									2.9	5.4	4.0
320-340	.6	.5	1.0									2.2	8.1	8.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	20.0	////	////
TOTALS	28.1	34.9	15.5	1.1	.1							100.0	5.1	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	3.1	2.0	.4	.0							6.9	8.1	8.0
020-040	1.4	3.4	2.4	.1								7.4	7.8	8.0
050-070	2.0	4.5	1.7	.2	.0							8.4	7.0	7.0
(E) 080-100	2.2	3.7	.5									6.4	5.7	6.0
110-130	2.3	3.6	.5	.0								6.5	5.7	6.0
140-160	2.2	2.3	.7	.0								5.3	5.6	5.0
(S) 170-190	2.2	4.1	1.9	.1	.0							8.4	7.1	7.0
200-220	2.2	6.9	4.4	.5	.0							14.0	8.1	8.0
230-250	2.2	4.7	3.2	.4	.1							10.6	7.9	8.0
(W) 260-280	1.8	2.6	1.0	.1	.0	.0						5.4	6.4	6.0
290-310	1.8	2.2	.6	.1								4.6	5.9	5.0
320-340	1.0	1.7	1.1	.1	.0							3.9	7.5	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	12.1	//////	//////
TOTALS	22.6	42.8	20.0	2.0	.1							100.0	6.2	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	4.7	4.7	.8								11.5	9.0	9.0
020-040	2.0	7.1	8.9									18.0	8.8	9.0
050-070	3.9	11.5	5.9	.3								21.6	7.5	7.0
(E) 080-100	3.4	4.7	.6									8.7	5.6	5.0
110-130	3.9	3.0	.2	.2								7.1	5.0	4.0
140-160	1.9	1.7	.6	.2								4.3	6.0	5.0
(S) 170-190	1.6	1.2	1.1	.2								4.0	7.2	6.5
200-220	1.6	1.7	.8									4.0	6.2	5.5
230-250	.8	1.6			.2							2.5	6.5	6.0
(W) 260-280	.9	.9		.2								2.0	5.5	5.0
290-310	1.4	2.0	.3									3.7	5.6	6.0
320-340	1.2	1.4	1.1	.5								4.2	7.8	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	8.2	////	////
TOTALS	24.0	41.5	24.2	2.4	.2							100.0	6.7	7.0

TOTAL NUMBER OF OBSERVATIONS 644

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35 39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	1.3	2.3	.2								4.7	9.1	10.0
020-040	.3	1.2	1.0									2.6	8.0	8.0
050-070	.6	1.3	.4									2.3	6.9	7.0
(E) 080-100	1.6	1.4	.2									3.2	4.9	5.0
110-130	1.8	.4										2.2	3.5	3.5
140-160	2.1	.8										2.9	3.3	3.0
(S) 170-190	3.8	4.9	1.2	.2								10.1	6.1	6.0
200-220	1.8	12.1	8.7	.9								23.4	8.7	8.0
230-250	6.3	4.7	3.1									14.1	6.1	5.0
(W) 260-280	4.2	1.4	.2									5.9	4.0	3.0
290-310	2.1	1.6	.1									3.8	4.5	4.0
320-340	1.2	.9	.2									2.3	5.3	4.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	22.4	//////////	
TOTALS	26.6	32.0	17.4	1.3								100.0	5.2	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.4	1.2	.1								3.8	7.8	8.5
020-040	1.2	2.0	1.0	.2	.1							4.6	7.4	7.0
050-070	.6	1.7	.6									2.8	7.5	8.0
(E) 080-100	2.0	1.0										3.0	3.8	3.0
110-130	.9	.2										1.1	3.2	2.5
140-160	1.9	.4										2.3	3.2	3.0
(S) 170-190	2.2	2.2	.4	.1								5.0	5.4	5.0
200-220	3.4	12.2	6.1	.3								22.1	7.7	8.0
230-250	5.6	7.0	3.6	.2								16.3	6.7	6.0
(W) 260-280	4.2	2.2	.3									6.8	4.5	4.0
290-310	3.6	.9	.2									4.7	4.0	4.0
320-340	1.3	2.7	.4									4.4	5.7	5.0
VARIABLE														
CALM												23.1		
TOTALS	27.9	33.9	13.8	.9	.1							100.0	4.9	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	3.3	2.7		.1							8.2	7.7	8.0
020-040	.7	2.3	1.9	.4								5.3	9.0	8.0
050-070	1.0	3.0	.7									4.7	7.0	7.0
(E) 080-100	1.7	.9	.2									2.8	4.3	4.0
110-130	.8	1.1	.1									2.0	5.0	5.0
140-160	1.9	.9	.1									2.9	4.0	3.0
(S) 170-190	2.1	2.1	.1	.2								4.6	5.1	5.0
200-220	3.3	7.7	5.8	.1								16.9	7.8	8.0
230-250	3.6	10.1	9.0	.4								23.1	8.4	8.0
(W) 260-280	3.3	3.7	1.0									8.0	5.8	5.0
290-310	2.4	2.2		.1								4.8	5.0	4.0
320-340	2.6	3.1	.8	.1								6.6	6.1	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.2	////	////
TOTALS	25.5	40.4	22.4	1.3	.1							100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	4.8	2.2	.1								9.3	7.2	7.5
020-040	2.2	3.8	2.6									8.6	7.2	8.0
050-070	2.1	4.3	1.8									8.2	6.7	6.0
(E) 080-100	2.0	2.3	.6	.1								5.0	6.0	5.0
110-130	1.8	1.0	1.0									3.8	6.1	6.0
140-160	1.3	1.7	.4	.1								3.6	6.1	5.0
(S) 170-190	1.0	3.0	.6		.2							4.8	7.1	6.0
200-220	1.0	5.2	5.3	.6								12.1	9.3	9.0
230-250	1.8	7.6	10.7	1.0								21.0	9.4	10.0
(W) 260-280	1.7	3.7	2.6	.1								8.0	7.7	8.0
290-310	1.3	2.2	1.4	.1								5.1	7.4	6.0
320-340	1.7	3.6	1.0									6.2	6.6	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	4.3	//////	//////
TOTALS	20.1	43.2	30.2	2.1	.2							100.0	7.4	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	2.6	1.7									4.9	7.7	8.0
020-040	1.2	4.9	2.7	.4								9.2	7.9	8.0
050-070	2.1	7.6	2.7	.2								12.6	7.2	6.0
(E) 080-100	2.9	7.1	1.0	.1								11.1	6.5	6.0
110-130	1.1	6.2	1.4	.1								8.9	6.9	6.0
140-160	1.1	1.7	.7									3.4	6.4	6.0
(S) 170-190	.4	3.0	1.3	.3	.1							5.2	8.4	8.0
200-220	.9	3.2	6.2	.9								11.2	10.0	10.0
230-250	.8	5.4	8.4	1.0								15.7	10.0	10.0
(W) 260-280	1.6	5.0	3.1	.2								9.9	8.0	8.0
290-310	.6	1.8	.7	.4								3.4	8.5	8.0
320-340	.7	1.6	1.6									3.8	7.8	8.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	.7	////	////
TOTALS	14.1	50.1	31.5	3.6	.1							100.0	8.1	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH. JUN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.4	1.0	.2								3.2	8.0	7.0
020-040	1.3	3.9	2.4	.3								8.0	7.9	8.0
050-070	2.7	7.2	2.7	.1								12.7	7.1	7.0
(E) 080-100	2.4	9.9	1.2									13.6	6.4	6.0
110-130	2.7	8.8	2.2									13.7	6.7	7.0
140-160	.8	2.4	.9									4.1	7.5	8.0
(S) 170-190	.8	3.1	2.2	.3								6.4	8.7	9.0
200-220	.7	4.2	6.4	.7	.1							12.1	10.2	10.0
230-250	.4	4.6	6.0	.6								11.6	10.0	10.0
(W) 260-280	.7	4.9	2.2		.1							7.9	8.2	8.0
290-310	.9	2.2	.7									3.8	6.8	6.0
320-340	.6	1.1	.4									2.1	6.6	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	.9	//////	//////
TOTALS	14.6	53.7	28.3	2.2	.2							100.0	7.9	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.9	1.7	.1	.1							3.6	8.7	10.0
020-040	2.1	2.0	1.4	.2								5.8	7.0	6.0
050-070	2.1	3.1	1.2	.2								6.7	6.5	5.5
(E) 080-100	3.6	6.6	.1									10.2	5.3	5.0
110-130	5.3	8.6	.9									14.8	5.4	5.0
140-160	3.2	4.9	.4									8.6	5.4	5.0
(S) 170-190	1.8	4.4	3.7	.1								10.0	7.9	8.0
200-220	.6	7.9	4.9	.3	.1							13.8	8.7	8.0
230-250	2.6	3.9	2.2									8.7	6.9	6.5
(W) 260-280	2.4	2.3	.2	.1								5.1	5.5	5.0
290-310	1.4	.8	.6	.1	.1							3.0	6.7	6.0
320-340	.7	.4	.2	.1								1.4	5.9	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	8.4	//////	//////
TOTALS	26.6	45.8	17.5	1.2	.3							100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.3	1.0	.2								3.1	8.1	8.0
020-040	.4	.8	1.0									2.2	8.3	9.0
050-070	.4	1.1	1.0	.4								3.0	9.3	9.0
(E) 080-100	3.0	3.0	.2									6.2	5.1	5.0
110-130	3.9	2.7										6.6	4.2	4.0
140-160	3.6	2.8	.2									6.6	4.5	4.0
(S) 170-190	3.6	7.8	3.7	.1								15.1	6.8	6.0
200-220	2.3	10.7	6.4	.4								19.9	8.1	8.0
230-250	3.9	4.3	1.2	.1								9.6	5.9	5.0
(W) 260-280	1.7	1.1	.3									3.1	4.7	4.0
290-310	1.4	.8	.3		.1							2.7	6.2	4.0
320-340	1.0	.4										1.4	3.6	3.0
VARIABLE														
CALM												20.6		
TOTALS	25.8	36.8	15.3	1.2	.1							100.0	5.2	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	2.1	1.7	.1	.0							5.1	7.9	8.0
020-040	1.2	2.6	1.8	.2	.0							5.8	7.8	8.0
050-070	1.4	3.7	1.4	.1								6.6	7.1	7.0
(E) 080-100	2.4	4.0	.4	.0								6.9	5.7	6.0
110-130	2.3	3.6	.7	.0								6.6	5.7	6.0
140-160	2.0	1.9	.3	.0								4.3	5.2	5.0
(S) 170-190	2.0	3.8	1.7	.2	.0							7.7	7.0	7.0
200-220	1.8	7.9	6.2	.5	.0							16.4	8.6	9.0
230-250	3.1	5.9	5.5	.4								15.0	8.1	8.0
(W) 260-280	2.5	3.0	1.3	.1	.0							6.8	6.4	6.0
290-310	1.7	1.6	.5	.1	.0							3.9	6.0	5.0
320-340	1.2	1.7	.6	.0								3.5	6.2	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	11.3	////	////
TOTALS	22.7	41.8	22.1	1.7								100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	3.3	4.1		.4							9.2	8.7	9.0
020-040	2.6	3.3	5.5	1.1								12.5	8.9	10.0
050-070	2.2	4.8	3.3									10.3	7.3	7.0
(E) 080-100	1.8	5.9	1.8									9.6	7.0	7.5
110-130	2.2	3.7	.4									6.3	5.1	5.0
140-160	1.1	.7										1.8	4.4	4.0
(S) 170-190	2.2	2.6	.4									5.2	5.1	5.0
200-220	1.1	4.4	1.5	.7								7.7	8.1	8.0
230-250	1.8	5.2	3.3	.4								10.7	7.4	7.0
(W) 260-280	2.2	1.8	.4									4.4	5.1	4.0
290-310	2.2	.7	.7		.4							4.1	6.3	4.0
320-340	1.8	3.0	.4									5.2	5.4	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	12.9	//////	//////
TOTALS	22.7	39.4	21.8	2.2	.8							100.0	6.2	6.5

TOTAL NUMBER OF OBSERVATIONS 271

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.0	1.0	.2								3.8	6.5	6.0
020-040	.6	.5	.1									1.3	4.8	4.5
050-070	.6	.6	.1	.2								1.6	7.1	6.0
(E) 080-100	1.2	.3										1.5	3.5	3.0
110-130	2.0	.5										2.6	3.7	4.0
140-160	1.5	.4	.1									2.0	3.8	4.0
(S) 170-190	3.0	3.0	.9									6.9	5.6	5.0
200-220	6.8	10.3	6.8	.9								24.7	7.4	7.0
230-250	6.7	8.3	1.6	.3								16.9	5.9	6.0
(W) 260-280	3.0	2.0	.2									5.3	4.2	4.0
290 310	2.6	.4	.2									3.2	3.8	3.0
320-340	1.5	1.0	.1									2.6	4.7	4.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	27.6	////	////
TOTALS	31.1	28.3	11.1	1.6								100.0	4.3	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 03-05

DIRECTION (DEGREES)	WIN SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.3	1.3	1.4	.1								4.1	7.3	6.5
020-040	.9	.8	.8	.3								2.7	8.0	7.0
050-070	.5	.8	.1									1.4	5.3	5.0
(E) 080-100	1.1	.2	.1									1.4	3.8	3.0
110-130	1.2	.2										1.4	3.4	3.0
140-160	.4	.4	.1									1.0	5.7	7.0
(S) 170-190	2.2	1.4	.2									3.8	4.8	4.0
200-220	5.1	9.8	5.6	.3								20.8	7.3	7.0
230-250	9.9	7.7	2.6	.3								20.5	5.5	5.0
(W) 260-280	4.3	1.3										5.6	3 6	3.0
290-310	4.0	.3	.1									4.4	3.3	3.0
320-340	1.7	1.9										3.7	5.1	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	29.4	//////	//////
TOTALS	32.6	26.1	11.0	1.0								100.0	4.1	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	2.9	1.4									6.6	6.4	6.0
020-040	1.1	2.0	1.4	.4								4.9	8.3	8.0
050-070	.8	1.5	.4									2.7	6.4	6.0
(E) 080-100	1.5	1.2	.1									2.8	5.0	4.0
110-130	1.3	.8	.1									2.2	4.4	4.0
140-160	.8	.1	.2									1.1	4.8	4.0
(S) 170-190	.8	1.5	.2	.1								2.6	6.3	6.0
200-220	3.3	6.9	5.1	.9								16.1	8.0	8.0
230-250	7.3	12.8	4.6	.2	.1							25.1	6.8	7.0
(W) 260-280	4.6	3.1	.4									8.2	4.8	4.0
290-310	3.4	2.3										5.7	3.9	4.0
320-340	3.5	3.2	.5									7.3	5.3	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.8	////	////
TOTALS	30.7	38.3	14.4	1.6	.1							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.0	5.5	1.4									10.9	5.9	5.0
020-040	4.3	4.3	2.0	.4								11.1	6.6	6.0
050-070	1.3	4.5	.5									6.3	6.6	7.0
(E) 080-100	1.6	1.9	.4									4.0	5.7	5.0
110-130	1.2	1.4	.4									3.0	5.8	6.0
140-160	1.7	.9	.5									3.1	5.0	4.0
(S) 170-190	1.0	2.0	.4									3.4	6.5	6.0
200-220	2.3	4.7	3.9	1.0								11.8	8.5	8.0
230-250	4.9	10.2	6.8	.9								22.8	7.8	8.0
(W) 260-280	3.0	5.6	1.0	.1								9.7	6.2	6.0
290-310	2.5	1.5										4.0	4.4	4.0
320-340	1.6	3.4	.3									5.4	5.7	6.0
VARIABLE														
CALM												4.5		
TOTALS	29.4	45.9	17.6	2.4								100.0	6.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	3.2	1.0									5.8	6.6	7.0
020-040	2.4	5.6	1.8	.3								10.1	7.0	7.0
050-070	2.6	8.8	1.0									12.4	6.3	6.0
(E) 080-100	2.3	5.2	1.2									8.6	6.4	6.0
110-130	1.7	4.5	.9									7.1	6.5	6.0
140-160	.8	2.2	.3									3.2	6.0	6.0
(S) 170-190	1.1	2.5	1.5	.2								5.3	8.1	8.0
200-220	1.6	4.4	4.4	1.2								11.6	9.1	8.0
230-250	2.3	8.4	6.1	1.1	.1							18.0	8.9	8.0
(W) 260-280	1.8	4.9	1.8									8.6	7.0	7.0
290-310	1.3	1.7	.3	.1								3.4	5.6	5.0
320-340	1.7	1.4	.3									3.4	5.1	4.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.5	////	////
TOTALS	21.2	52.8	20.6	2.9	.1							100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	1.1	.2									1.8	6.1	6.0
020-040	2.2	4.6	1.6	.1								8.5	6.7	6.0
050-070	2.3	5.6	1.6									9.5	6.6	7.0
(E) 080-100	3.7	6.1	2.4	.1								12.3	6.5	6.0
110-130	3.5	8.9	2.0									14.5	6.4	6.0
140-160	1.9	2.9	.3									5.2	5.6	6.0
(S) 170-190	1.0	2.7	3.3	.1								7.1	8.9	9.0
200-220	.9	3.5	5.3	1.1								10.8	9.8	10.0
230-250	1.2	6.6	4.2	.5	.1							12.6	8.7	8.0
(W) 260-280	2.2	4.1	1.0	.1								7.3	6.3	6.0
290-310	1.7	3.3	.3	.1								5.5	5.9	5.0
320-340	1.5	2.0	.1									3.7	5.1	5.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	1.4	////	////
TOTALS	22.6	51.4	22.3	2.1	.1							100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.9	.8	.1								2.7	6.9	7.0
020-040	1.8	1.9	.4									4.2	5.6	5.0
050-070	2.8	3.2	.2									6.2	4.9	5.0
(E) 080-100	5.3	5.1	.4									10.8	4.9	5.0
110-130	5.3	6.3	1.1	.1								12.8	5.3	5.0
140-160	3.8	3.3	.1									7.2	4.9	4.0
(S) 170-190	3.0	6.5	3.3	.4	.1							13.3	7.5	7.0
200-220	1.9	7.3	3.9	.4	.1							13.7	8.2	8.0
230-250	4.5	4.5	2.4	.2								11.6	6.3	6.0
(W) 260-280	1.7	1.2	.2									3.1	4.8	4.0
290-310	1.6	.8										2.4	3.5	3.0
320-340	1.7	1.0	.1	.1			.1					3.0	5.7	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	9.0	//////	//////
TOTALS	34.4	42.0	12.9	1.3	.2		.1					100.0	5.5	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.9	.5									2.3	6.2	5.0
020-040	.5	1.0	.2	.1								1.8	6.6	5.0
050-070	1.0	1.3										2.3	5.0	6.0
(E) 080-100	2.9	2.2	.1									5.2	4.3	4.0
110-130	3.1	1.6										4.7	4.0	4.0
140-160	4.5	2.6										7.1	4.1	4.0
(S) 170-190	4.8	5.3	2.9	.4								13.4	6.7	6.0
200-220	4.1	10.3	6.2	.4								21.1	7.7	8.0
230-250	3.8	4.9	1.3	.2								10.2	6.0	5.0
(W) 260-280	2.6	.8	.6									4.0	5.0	4.0
290-310	1.2	.5		.1								1.8	4.6	4.0
320-340	1.4	.3	.4		.1		.1					2.4	7.1	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	23.8	//////	//////
TOTALS	30.8	31.7	12.2	1.2	.1		.1					100.0	4.7	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	2.1	1.0	.1								4.7	6.4	6.0
020-040	1.7	2.6	1.0	.2								5.6	6.8	6.0
050-070	1.5	3.3	.5	.0								5.3	6.2	6.0
(E) 080-100	2.4	2.8	.6	.0								5.8	5.5	5.0
110-130	2.4	3.0	.6	.0								6.0	5.5	5.0
140-160	1.9	1.6	.2									3.7	4.9	4.0
(S) 170-190	2.1	3.1	1.6	.2	.0							7.0	7.0	6.0
200-220	3.2	7.2	5.1	.8	.0							16.3	8.0	8.0
230-250	5.1	7.9	3.7	.5	.0							17.2	7.0	7.0
(W) 260-280	2.9	2.9	.7	.0								6.5	5.5	5.0
290-310	2.3	1.4	.1	.0								3.8	4.4	4.0
320-340	1.8	1.8	.2	.0	.0		.0					3.9	5.4	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	14.1	//////	//////
TOTALS	28.9	39.7	15.3	1.8								100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	3.7	1.7									7.7	6.3	5.0
020-040	1.4	3.4	2.3	.6								7.7	8.3	8.0
050-070	2.6	2.0	2.0									6.6	6.4	6.0
(E) 080-100	2.9	1.4										4.3	4.1	4.0
110-130	.9	.9										1.7	3.8	3.5
140-160	.6	.3	.3									1.1	5.5	4.5
(S) 170-190	.3	1.7	.3									2.3	7.3	6.5
200-220	3.4	6.3	2.9									12.6	6.8	6.0
230-250	8.0	9.7	3.7	.3								21.8	6.2	6.0
(W) 260-280	2.9	3.7	.6	.3								7.4	5.9	6.0
290-310	3.4	2.6										6.0	4.3	4.0
320-340	3.4	2.9	.6	.3			.3					7.4	6.9	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.2	//////	//////
TOTALS	32.1	38.6	14.4	1.5			.3					100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 349

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.4	.9									3.9	5.9	5.0
020-040	1.5	1.4	1.0	.1								4.0	6.5	6.0
050-070	1.6	3.3	.8	.3	.1							6.1	6.9	6.0
(E) 080-100	2.2	.9	.1									3.1	3.9	3.0
110-130	1.5	.3										1.8	2.8	2.0
140-160	1.7	.5										2.3	3.5	3.0
(S) 170-190	3.5	2.6	.2									6.3	4.5	4.0
200-220	5.9	10.4	2.0	1								18.5	6.1	6.0
230-250	6.0	5.4	1.7									13.1	5.3	5.0
(W) 260-280	2.7	.9	.1									3.7	3.5	2.0
290-310	3.1	.4	.2									3.8	3.5	2.0
320-340	2.3	.9	.3		.1							3.5	5.0	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	29.9	//////	//////
TOTALS	33.6	28.4	7.3	.5	.2							100.0	3.7	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER· 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	2.2	.3									4.6	5.5	5.0
020-040	1.6	2.4	1.1	.8								5.8	7.8	7.0
050-070	1.1	2.4	.6	.1								4.2	6.1	6.0
(E) 080-100	1.2	.9	.3									2.4	5.4	4.5
110-130	1.3	.1										1.4	2.4	2.0
140-160	.3	.4										.8	4.6	5.0
(S) 170-190	1.7	1.2										2.9	4.3	4.0
200-220	6.6	6.3	1.6									14.5	5.5	5.0
230-250	6.7	6.5	2.9									16.0	5.8	5.0
(W) 260-280	3.2	.6	.4									4.3	3.8	3 0
290-310	2.9	.6										3.5	3.1	3.0
320-340	3.8	1.8	.5									6.1	4.3	4.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	33.4	////	////
TOTALS	32.6	25.4	7.7	.9								100.0	3.5	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.2	3.2	.6	.1								7.2	5.3	5.0
020-040	.8	4.8	2.8	.4	.1	.1						9.0	8.8	8.0
050-070	1.0	3.5	1.5	.4								6.5	7.9	7.0
(E) 080-100	1.0	1.4	.2									2.6	5.8	6.0
110-130	1.2	.1	.1									1.4	3.4	3.0
140-160	.3	.4										.8	4.4	5.0
(S) 170-190	2.2	1.2	.3									3.7	4.6	4.0
200-220	4.2	6.5	.9									11.5	5.8	6.0
230-250	4.9	9.4	3.7	.1								18.1	6.7	6.5
(W) 260-280	2.5	1.9	.5									4.9	4.9	4.5
290-310	3.5	1.7	.2									5.5	3.8	4.0
320-340	4.2	2.9	.3									7.4	4.5	4.0
VARIABLE														
CALM												21.5		
TOTALS	29.0	37.0	11.1	1.0	.1	.1						100.0	4.7	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	6.3	1.9	.1	.1							11.8	6.5	6.0
020-040	4.2	6.5	4.5	.5								15.7	7.4	7.0
050-070	3.1	6.1	2.3	.2								11.7	7.0	7.0
(E) 080-100	1.5	3.4	1.0									5.9	6.3	5.0
110-130	1.4	1.4	.1									2.9	4.7	5.0
140-160	1.4	.1										1.5	3.1	3.0
(S) 170-190	2.6	2.9	.4									5.9	5.3	5.0
200-220	2.3	5.3	2.6									10.1	7.0	7.0
230-250	2.5	9.2	5.7									17.4	8.0	8.0
(W) 260-280	1.7	2.3	.8									4.7	6.0	6.0
290-310	1.3	.9	.3									2.5	5.1	4.0
320-340	2.2	1.8	.6									4.6	5.5	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.2	//////	//////
TOTALS	27.5	46.2	20.2	.8	.1							100.0	6.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	4.2	1.7	.3								8.0	7.2	6.0
020-040	3.4	7.6	2.2	.4								13.7	6.8	7.0
050-070	4.2	11.2	2.6	.1								18.1	6.8	7.0
(E) 080-100	1.7	5.6	1.7	.2								9.2	7.1	7.0
110-130	2.7	5.2	.5									8.4	5.7	6.0
140-160	.9	1.2										2.0	4.9	5.0
(S) 170-190	1.4	3.1	.8									5.3	6.3	6.0
200-220	1.3	5.2	3.4	.2								10.1	8.2	8.0
230-250	1.6	5.9	4.1	.1								11.7	8.0	8.0
(W) 260-280	1.9	3.2	.6	.1								5.9	6.3	6.0
290-310	.8	1.3	.3									2.4	6.2	6.0
320-340	1.1	.9	.5	.1								2.6	6.6	5.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.7	////	////
TOTALS	22.7	54.6	18.4	1.5								100.0	6.7	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	3.1	1.7	.2	.2							6.9	7.7	7.0
020-040	2.4	5.1	1.9	.2								9.6	6.9	6.0
050-070	4.5	7.8	2.4	.4								15.2	6.5	6.0
(E) 080-100	2.8	7.0	1.9	.2								11.9	6.7	6.0
110-130	5.4	11.2	1.7									18.3	5.9	6.0
140-160	.5	2.2	.4									3.1	6.7	6.0
(S) 170-190	1.5	1.6	1.2	.2								4.5	7.5	8.0
200-220	.9	3.3	3.7		.1							8.0	8.7	9.0
230-250	1.7	5.3	2.9	.1								10.0	7.5	8.0
(W) 260-280	1.0	2.3	.4	.1								3.8	6.2	6.0
290-310	1.4	1.3		.1								2.8	5.1	4.5
320-340	1.0	1.8	.2	.1								3.1	6.0	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	2.9	////	////
TOTALS	24.7	52.0	18.4	1.6	.3							100.0	6.6	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	1.5	1.5	.1	.1							6.1	6.5	5.0
020-040	2.7	1.9	.4	.2	.1		.1					5.5	5.9	5.0
050-070	2.7	3.8	1.2	.3								8.0	6.7	6.0
(E) 080-100	5.2	7.1	.4									12.7	5.0	5.0
110-130	6.5	6.2	.2									12.9	4.5	4.5
140-160	5.2	3.1	.1									8.4	4.4	4.0
(S) 170-190	3.3	4.9	1.5	.1								9.9	6.2	6.0
200-220	2.8	5.8	2.3	.1								11.0	6.9	7.0
230-250	3.0	2.9	1.2									7.1	5.9	5.0
(W) 260-280	1.4	.5	.1									2.0	4.1	4.0
290-310	1.8	.3										2.2	3.0	2.5
320-340	1.3	.8	.4									2.5	5.2	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	11.8	//////	//////
TOTALS	38.8	38.8	9.3	.8	.2		.1					100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOUR_Y OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	.9	1.5	.1	.1	.1						4.8	7.3	6.0
020-040	1.2	.9	.6	.1								2.8	6.1	5.5
050-070	2.5	3.1	1.7	.2								7.5	6.6	6.5
(E) 080-100	3.8	1.3	.5									5.6	4.5	4.0
110-130	4.0	1.1	.1									5.2	3.4	3.0
140-160	3.3	1.5										4.8	3.7	4.0
(S) 170-190	5.8	5.9	1.0									12.7	5.1	5.0
200-220	4.1	7.4	3.2	.1								14.8	7.1	7.0
230-250	4.3	2.9	1.1	.2								8.5	5.5	4.0
(W) 260-280	1.8	.8										2.6	3.3	3.0
290-310	1.4	.6	.1									2.2	4.1	4.0
320-340	1.8	.5	.3	.1								2.8	5.1	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	25.7	//////	//////
TOTALS	36.2	26.9	10.1	.8	.1	.1						100.0	4.1	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	2.8	1.3	.1	.1	.0						6.7	6.5	6.0
020 040	2.2	3.8	1.8	.3	.0	.0	.0					8.3	7.2	7.0
050-070	2.6	5.2	1.6	.3	.0							9.7	6.8	6.0
(E) 080-100	2.4	3.4	.8	.1								6.7	5.8	5.0
110-130	3.0	3.2	.3									6.5	4.9	5.0
140-160	1.7	1.2	.1									3.0	4.4	4.0
(S) 170-190	2.8	2.9	.7	.0								6.4	5.5	5.0
200-220	3.5	6.3	2.5	.1	.0							12.3	6.7	7.0
230-250	3.8	5.9	2.9	.1								12.7	6.7	6.0
(W) 260-280	2.0	1.6	.4	.0								4.0	5.0	4.0
290-310	2.0	.9	.1	.0								3.1	4.1	4.0
320-340	2.2	1.4	.4	.0	.0							4.1	5.1	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.6	//////	//////
TOTALS	30.5	38.6	12.9	1.0	.1							100.0	5.1	6.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.7	6.2	3.1	.5	.9	.2						16.6	7.5	6.0
020-040	.7	3.1	1.7	2.1	.2	.2	.2					8.3	11.3	10.0
050-070	1.9	4.5	3.3	2.6	.2							12.6	9.8	9.0
(E) 080-100	.9	1.2	.9	.5								3.6	8.4	6.0
110-130	1.2	1.2	.9									3.3	6.6	7.0
140-160	.9	.2										1.2	3.6	3.0
(S) 170-190	2.4	.9	.2									3.6	4.5	4.0
200-220	2.4	3.1	.2	.2								5.9	5.7	5.0
230-250	2.8	5.5	.2									8.5	5.8	6.0
(W) 260-280	1.2	.9	.9									3.1	6.1	6.0
290-310	3.1	2.1	.7									5.9	4.6	4.0
320-340	4.0	4.3	2.1	.7	.2							11.4	7.1	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	16.1	////	////
TOTALS	27.2	33.2	14.2	6.6	1.5	.4	.2					100.0	6.2	6.0

TOTAL NUMBER OF OBSERVATIONS 422

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.6	2.4	.4			.1					6.1	8.9	9.0
020-040	.4	2.9	2.8	.6			.2					6.9	10.4	10.0
050-070	1.9	2.9	2.3	.3	.1							7.6	7.9	7.0
(E) 080-100	3.1	1.4	.2	.1								4.9	4.7	4.0
110-130	.8	.7										1.4	4.3	4.0
140-160	1.3											1.3	2.3	2.0
(S) 170-190	1.7	.9	.1									2.7	4.1	3.5
200-220	6.0	7.6	2.7	.1								16.3	6.1	6.0
230-250	5.2	3.4	1.2									9.9	5.1	4.0
(W) 260-280	2.7	.4	.1									3.2	2.8	2.0
290-310	1.9	.9										2.8	3.5	3.0
320-340	2.1	2.0	.7	.1								4.9	5.4	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	32.0	//////	//////
TOTALS	28.7	24.7	12.5	1.6	.1		.3					100.0	4.2	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	3.1	2.7	.1					.2			7.3	8.9	8.0
020-040	.9	2.2	3.2	.9								7.2	9.3	10.0
050-070	2.6	3.8	2.0	.2			.1					8.7	7.6	7.0
(E) 080-100	1.3	1.0	.1									2.4	4.3	4.0
110-130	.6	.4	.4									1.4	6.5	8.0
140-160	.6	.2										.8	3.7	3.0
(S) 170-190	.8	.7										1.4	4.1	4.0
200-220	3.9	5.9	1.3									11.1	5.9	6.0
230-250	6.0	6.1	1.1	.1								13.3	5.3	5.0
(W) 260-280	2.4	1.0	.1									3.6	3.2	2.0
290-310	2.4	.7	.1									3.2	3.7	4.0
320-340	4.1	3.0	1.0	.1								8.2	5.3	4.5
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	31.2	//////	//////
TOTALS	26.8	28.1	12.0	1.4			.1		.2			100.0	4.3	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	4.1	3.2	.3								10.6	7.1	7.0
020-040	1.6	3.9	3.1	1.2	.1							9.9	9.2	9.0
050-070	2.6	4.3	3.6	.6								11.0	8.2	8.0
(E) 080-100	1.6	1.6	.3									3.4	5.3	5.0
110-130	.4		.2									.7	5.2	3.0
140-160	.3	.3	.3									1.0	6.3	6.0
(S) 170-190	1.6	.6	.1									2.2	4.0	4.0
200-220	3.3	4.7	2.2	.1								10.3	6.6	6.0
230-250	5.1	6.0	1.6									12.7	5.9	6.0
(W) 260-280	1.3	2.3	.3		.1							4.1	6.2	6.0
290-310	3.1	1.1		.1								4.3	3.8	3.0
320-340	4.7	3.1	.4	.1	.1							8.4	5.0	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.3	//////	//////
TOTALS	28.5	32.0	15.3	2.4	.3							100.0	5.2	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	6.9	4.7	.3								14.2	7.9	8.0
020-040	3.2	8.6	5.8	1.3	.1							19.0	8.2	8.0
050-070	3.7	6.4	4.7	1.0								15.8	7.8	8.0
(E) 080-100	2.3	1.3	1.1									4.8	5.7	5.0
110-130	.9	1.3										2.2	4.9	5.0
140-160	1.1	.8	.4									2.3	5.5	5.0
(S) 170-190	1.7	1.8	.2									3.7	5.0	5.0
200-220	2.4	3.6	2.3	.1								8.4	7.3	8.0
230-250	2.7	8.0	2.4	.3								13.4	7.4	8.0
(W) 260-280	1.4	2.1	.7	.2								4.4	6.9	6.5
290-310	.7	1.8	.4									2.9	6.8	7.0
320-340	1.4	.9	.6	.1								3.0	6.0	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	5.8	////	////
TOTALS	23.8	43.5	23.3	3.3	.1							100.0	6.9	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	3.7	4.2	.3								9.1	9.0	9.5
020-040	3.0	8.2	5.0	.4								16.7	7.7	7.5
050-070	6.2	10.3	3.8	1.0								21.3	6.8	6.0
(E) 080-100	2.8	4.6	2.2	.6	.1							10.2	7.3	6.0
110-130	2.2	2.2	.1									4.6	4.7	5.0
140-160	1.2	.6	.6									2.3	5.8	4.0
(S) 170-190	.9	1.9	.8									3.6	6.8	6.5
200-220	1.0	5.0	3.3									9.3	8.0	8.0
230-250	1.3	4.4	2.8	.4								9.0	8.1	8.0
(W) 260-280	1.1	2.9	1.3									5.3	7.2	7.0
290-310	.8	1.8	.4									3.0	6.9	7.0
320-340	1.0	1.2	.6									2.8	6.3	7.0
VARIABLE														
CALM												2.8		
TOTALS	22.4	46.8	25.1	2.7	.1							100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	2.2	2.1	.7								5.8	8.7	8.0
020-040	3.1	7.3	3.1	.9								14.4	7.4	7.0
050-070	4.3	10.6	3.8	1.0								19.7	7.3	7.0
(E) 080-100	4.6	7.9	2.3									14.8	6.2	6.0
110-130	4.6	4.4	.7		.1							9.8	5.2	5.0
140-160	1.9	.6	.1									2.6	4.4	4.0
(S) 170-190	.7	1.7	1.2	.3								3.9	8.4	8.0
200-220	.4	4.6	2.1									7.1	8.5	8.0
230-250	1.6	4.7	1.9	.1								8.2	7.4	7.5
(W) 260-280	1.2	2.4	.9									4.6	6.1	6.0
290-310	.7	1.8	.4									2.9	6.7	7.5
320-340	.7	1.4	.8									2.9	6.8	6.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	3.4	////	////
TOTALS	24.6	49.6	19.4	3.0	.1							100.0	6.8	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	2.2	.9	.7	.2							7.1	6.9	5.5
020-040	3.1	2.2	1.3	.8								7.4	6.7	5.0
050-070	2.4	4.3	2.7	.8	.3							10.6	8.1	7.0
(E) 080-100	5.8	5.2	.9									11.9	4.9	5.0
110-130	7.7	2.7	.2									10.6	3.7	3.0
140-160	3.9	1.1	.1									5.1	3.7	4.0
(S) 170-190	2.9	4.0	.8									7.7	5.7	5.0
200-220	2.0	5.1	.6									7.7	6.1	6.0
230-250	3.8	1.7	.4									5.9	4.6	4.0
(W) 260-280	3.1	.2	.1									3.4	3.3	2.0
290-310	1.7	.6										2.2	3.4	3.0
320-340	1.6	1.0	.2									2.8	4.6	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.7	//////	//////
TOTALS	41.1	30.3	8.2	2.3	.5							100.0	4.5	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH SEP HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.6	1.3	1.2			.1					5.3	9.8	9.5
020-040	.9	2.0	1.8	.9	.1							5.7	9.2	9.0
050-070	1.3	3.7	2.4	.7	.1							8.2	8.6	8.0
(E) 080-100	4.3	2.7	1.1	.1								8.2	5.2	4.0
110-130	3.3	.8										4.1	3.4	3.0
140-160	2.2	.3										2.6	2.9	2.0
(S) 170-190	4.0	3.3	.6									7.9	5.1	4.0
200-220	5.1	6.2	3.2									14.6	6.5	6.0
230-250	4.0	.9	.3	.1								5.3	4.0	3.0
(W) 260-280	3.1	.4										3.6	2.7	2.0
290-310	2.0	1.2										3.2	3.7	3.0
320-340	2.0	1.2										3.2	4.3	4.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	28.1	//////	//////
TOTALS	33.3	24.3	10.7	3.0	.2		.1					100.0	4.3	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	3.2	2.7	.5	.0		.0		.0			8.2	8.2	8.0
020-040	2.0	4.7	3.3	.9	.0		.0					10.9	8.3	8.0
050-070	3.1	5.8	3.2	.7	.1		.0					12.8	7.6	7.0
(E) 080-100	3.2	3.2	1.0	.1	.0							7.6	5.7	5.0
110-130	2.6	1.6	.2		.0							4.3	4.5	4.0
140-160	1.6	.5	.2									2.2	4.2	4.0
(S) 170-190	1.8	1.8	.5	.0								4.1	5.6	5.0
200-220	3.0	5.3	2.2	.0								10.6	6.7	7.0
230-250	3.7	4.4	1.5	.1								9.7	6.1	6.0
(W) 260-280	2.1	1.5	.4	.0	.0							4.0	5.1	4.0
290-31	1.7	1.2	.2	.0								3.1	4.8	4.0
320-340	2.2	1.7	.5	.1	.0							4.5	5.4	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.8	//////	//////
TOTALS	28.7	34.9	15.9	2.4	.1							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	5.4	4.7	1.9			.4		.4			15.7	10.1	8.5
020-040	1.1	7.1	5.0	3.2	.4		.4					17.2	10.5	10.0
050-070	1.9	4.5	4.5	2.2	.6		.2					13.8	10.4	10.0
(E) 080-100	2.1	.9	1.5	.4	.2							5.0	7.9	8.0
110-130	2.1	1.1	.4		.2							3.7	5.4	4.0
140-160	.7	.2										.9	3.0	2.0
(S) 170-190	1.3	.9										2.2	4.0	4.0
200-220	.9	1.1	.7	.2								3.0	7.3	7.0
230-250	1.3	3.2	.6									5.0	6.1	6.0
(W) 260-280	1.1	2.6	.6	.2	.2							4.7	7.6	7.0
290-310	1.9	1.9	.2	.2								4.1	5.3	5.5
320-340	2.2	3.6	.7	.2								6.7	6.3	6.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	17.8	////	////
TOTALS	19.6	32.5	18.9	8.5	1.6		1.0		.4			100.0	7.1	8.0

TOTAL NUMBER OF OBSERVATIONS 535

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	4.0	2.4	.1								8.0	7.5	7.0
020-040	1.3	3.9	4.3	1.3	.1	.2						11.1	9.9	10.0
050-070	.4	2.7	1.6	1.1	.1							5.9	9.9	9.0
(E) 080-100	.3	.5	.4	.2								1.5	8.9	8.0
110-130	.2	.2	.1									.5	6.0	6.0
140-160	.5	.2										.8	4.1	4.0
(S) 170-190	1.5	2.5	.3									4.3	5.4	6.0
200-220	4.8	7.0	1.0									12.8	5.8	5.0
230-250	4.5	3.2	.8	.1								8.6	5.1	4.0
(W) 260-280	3.0	2.0	1.1	.1								6.2	5.6	5.0
290-310	3.8	1.4	.2									5.4	4.2	3.5
320-340	3.0	2.6	1.5	.3	.1							7.5	6.9	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	27.4	//////	//////
TOTALS	24.8	30.2	13.7	3.2	.3	.2						100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	3.9	3.1	.4	.2							9.6	8.1	8.0
020-040	.6	4.5	5.9	1.3	.2	.1						12.7	10.4	10.0
050-070	.8	1.8	1.4	.5	.1							4.6	9.0	9.0
(E) 080-100	.2	.9		.1								1.2	7.2	7.0
110-130	.4	.1	.1									.6	5.7	4.0
140-160	.8											.8	1.6	2.0
(S) 170-190	1.3	1.8										3.1	4.9	5.0
200-220	4.7	6.8	.6									12.2	5.4	5.0
230-250	5.2	3.1	.4									8.7	4.5	4.0
(W) 260-280	3.3	1.5	.8									5.6	5.0	4.0
290-310	4.2	3.4										7.6	4.5	4.0
320-340	2.8	3.0	1.0	.1								6.9	5.9	5.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	26.5	//////	//////
TOTALS	26.2	30.8	13.3	2.4	.5	.1						100.0	4.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	4.2	2.5	.3	.2							10.2	7.4	6.0
020-040	1.8	4.5	6.9	1.4		.1	.2					14.9	10.1	10.0
050-070	.3	2.6	1.2	.6								4.7	9.0	8.0
(E) 080-100	.2	.6	.2	.1								1.2	7.2	6.0
110-130	.3	.2	.1									.6	5.5	5.5
140-160	1.1	.3										1.4	3.4	3.0
(S) 170-190	1.0	1.7	.3									3.0	6.0	6.0
200-220	3.3	6.7	.9									10.9	6.2	6.0
230-250	5.6	4.6	1.3									11.5	5.2	5.0
(W) 260-280	1.9	2.3	.1									4.3	5.1	5.0
290-310	3.9	3.3	.1									7.3	4.7	4.0
320-340	4.0	3.9	1.4	.2								9.5	6.1	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	20.4	////	////
TOTALS	26.4	34.9	15.0	2.6	.2	.1	.2					100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STAION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	7.4	7.5	1.0	.3	.1	.1					18.5	9.4	9.0
020-040	1.7	5.8	6.5	2.0	.1		.1					16.2	10.1	10.0
050-070	1.2	3.3	2.5	1.5	.2							8.7	10.0	9.0
(E) 080-100	1.4	1.7	.2									3.3	5.6	6.0
110-130	1.4	.9	.2									2.5	4.3	3.0
140-160	.9	1.3	.1									2.3	5.3	5.0
(S) 170-190	1.4	1.9	.8	.2								4.3	6.7	6.0
200-220	2.0	4.6	3.2	.2								10.1	7.9	8.0
230-250	2.2	5.6	3.0	.4								11.2	7.7	8.0
(W) 260-280	1.2	2.7	1.2	.4								5.5	7.7	7.0
290-310	1.0	1.7	.9									3.5	6.4	5.0
320-340	1.7	3.2	3.2	.5								8.7	8.7	9.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	5.2	////	////
TOTALS	18.1	40.1	29.3	6.2	.6	.1	.2					100.0	8.0	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	5.2	6.2	.8	.6							14.2	9.7	10.0
020-040	2.5	8.9	4.8	1.2	.2							17.6	8.4	8.0
050-070	2.5	6.6	3.0	1.5								13.5	8.2	7.0
(E) 080-100	1.1	3.2	1.1									5.4	6.7	6.0
110-130	1.5	1.6	.1									3.2	5.0	5.0
140-160	1.3	1.1	.2									2.6	5.1	5.0
(S) 170-190	.9	2.4	1.4	.2								4.8	8.0	7.0
200-220	.4	5.5	4.1	.1								10.1	8.9	9.0
230-250	.9	4.0	4.3	.9	.2							10.2	9.7	10.0
(W) 260-280	.9	3.0	1.5	.1								5.5	7.6	7.0
290-310	.5	1.8	1.5	.1								4.0	8.1	8.0
320-340	1.3	3.5	2.4	.3	.1							7.6	8.2	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	1.2	////	////
TOTALS	15.2	46.8	30.6	5.2	1.1							100.0	8.3	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	4.4	3.1	.6	.3							10.3	8.6	8.0
020-040	3.1	6.7	3.9	.6	.3							14.6	8.1	7.0
050-070	3.2	4.7	4.1	1.0	.3							13.3	8.4	8.0
(E) 080-100	3.8	4.7	.5	.1								9.1	5.4	5.0
110-130	3.8	4.2	.4									8.4	5.2	5.0
140-160	1.5	1.3	.1									2.9	4.6	4.0
(S) 170-190	.6	3.2	1.1	.3								5.3	8.1	8.0
200-220	.9	4.4	3.1	.2								8.6	8.4	8.0
230-250	1.8	3.9	2.0		.2							8.0	7.8	7.5
(W) 260-280	1.7	2.0	1.0	.2	.1							5.1	7.1	7.0
290-310	1.3	2.7	.9	.1								4.9	7.1	8.0
320-340	1.8	2.3	1.8									5.9	7.1	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	3.5	////	////
TOTALS	25.3	44.5	22.0	3.1	1.2							100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	4.3	1.6	.5								9.3	6.9	6.0
020-040	2.9	2.5	3.0	1.3	.1	.3						10.1	9.1	8.0
050-070	1.9	3.4	3.3	.6								9.4	8.7	8.0
(E) 080-100	3.0	1.1	.3	.1								4.5	5.0	4.0
110-130	4.1	1.2										5.3	3.4	3.0
140-160	3.6	1.8	.2									5.6	4.4	4.0
(S) 170-190	2.9	5.2	1.0									9.1	5.6	5.5
200-220	2.7	5.3	1.5									9.5	6.2	6.0
230-250	2.2	1.7	.6	.2								4.7	5.8	5.0
(W) 260-280	2.5	.8	.4	.1								3.8	4.9	3.0
290-310	2.8	1.2	.4									4.4	4.3	3.0
320-340	.9	1.2	.4	.3								2.8	7.4	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.6	//////	//////
TOTALS	32.3	29.7	12.7	3.1	.1	.3						100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 928

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.5	3.6	1.8	.3	.2							8.4	7.2	7.0
020-040	1.2	3.5	3.5	.9	.1	.2						9.3	9.8	9.5
050-070	1.0	3.1	2.6	1.0								7.7	9.4	9.0
(E) 080-100	1.2	1.5	.4	.3								3.5	6.9	5.0
110-130	.6	.2										.9	3.5	3.0
140-160	1.1	.4										1.5	3.6	3.0
(S) 170-190	3.6	3.7	1.4									8.6	5.8	6.0
200-220	3.6	7.6	1.2									12.3	6.1	6.0
230-250	3.8	3.0	.8	.2								7.8	5.4	5.0
(W) 260-280	1.4	1.1	.5	.2								3.2	6.3	5.0
290-310	2.7	1.5	.3									4.5	4.7	4.0
320-340	2.3	2.6	1.0									5.8	5.9	6.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	26.5	//////	//////
TOTALS	25.0	31.8	13.5	2.9	.3	.2						100.0	5.0	6.0

TOTAL NUMBER OF OBSERVATIONS 927

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	4.6	3.5	.5	.2	.0	.0					11.1	8.3	8.0
020-040	1.9	5.0	4.8	1.3	.1	.1	.0					13.3	9.4	9.0
050-070	1.4	3.5	2.5	1.0	.1							8.5	8.9	8.0
(E) 080-100	1.4	1.8	.4	.1								3.7	6.1	5.0
110-130	1.5	1.1	.1									2.8	4.6	4.0
140-160	1.3	.8	.1									2.2	4.4	4.0
(S) 170-190	1.6	2.8	.8	.1								5.3	6.3	6.0
200-220	2.8	6.0	2.0	.1								10.8	6.7	6.0
230-250	3.3	3.6	1.7	.2	.1							8.8	6.5	6.0
(W) 260-280	2.0	1.9	.8	.1	.0							4.9	6.2	6.0
290-310	2.5	2.1	.5	.0								5.2	5.3	5.0
320-340	2.2	2.8	1.6	.2	.0							6.8	7.0	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.5	//////	//////
TOTALS	24.0	36.0	18.8	3.6	.5	.1						100.0	6.1	7.0

TOTAL NUMBER OF OBSERVATIONS 7435

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: ALL

CATEGORY A: CEILING GE 200 UT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.4	5.3	4.1	1.2	.8		.2					15.8	8.7	7.0
020-040	1.7	6.0	5.3	1.1	.8	.6	.5					15.8	11.0	10.0
050-070	2.0	3.6	4.1	2.7	.3							12.6	10.4	10.0
(E) 080-100	.9	3.0	2.1	.6								6.6	8.9	8.0
110-130	2.3	1.2	.3									3.8	4.7	4.0
140-160	2.9	1.1	.2									4.1	4.0	4.0
(S) 170-190	1.5	2.1	.3									3.9	5.5	5.5
200-220	1.2	2.4	.6	.2								4.4	6.8	7.0
230-250	.5	2.6	1.1	.3								4.4	8.3	8.0
(W) 260-280	.9	1.8	.8									3.5	7.2	8.0
290-310	1.2	1.8	.6									3.6	5.9	5.5
320-340	2.9	2.7	2.7	.2								8.4	7.2	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.4	////	////
TOTALS	22.4	33.6	22.2	6.3	1.9	.6	.7					100.0	7.3	8.0

TOTAL NUMBER OF OBSERVATIONS 666

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN W
(N) 350-010	1.9	4.1	4.2	.2	.1							10.6	8.2	9.0
020-040	2.0	4.3	2.2	.1	.2							8.9	7.6	8.0
050-070	1.4	1.4	1.0	.6	.1							4.6	8.1	7.0
(E) 080-100	.6	.4	.3									1.3	6.3	7.0
110-130	.7	.1	.1									.9	4.3	3.5
140-160	.8	1.0	.2									2.0	5.9	6.0
(S) 170-190	1.9	3.1	.7	.2								5.9	6.5	6.0
200-220	4.6	6.6	1.6	.6								13.2	6.5	6.0
230-250	3.7	2.8	1.0	.4								7.9	6.1	5.0
(W) 260-280	2.3	2.7	1.2		.1							6.3	6.6	7.0
290-310	3.2	2.6	1.7	.3								7.8	6.4	6.0
320 340	1.6	3.8	2.6	.4								8.3	8.1	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	22.3	//////	//////
TOTALS	24.7	32.9	16.8	2.8	.5							100.0	5.5	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	4.0	4.9	.9	.3							11.8	9.0	10.0
020-040	1.8	3.7	2.8	.2	.2							8.7	8.1	8.0
050-070	.2	1.8	.4	.7	.1							3.2	10.1	8.0
(E) 080-100	.6	.7	.4									1.7	7.2	7.0
110-130	1.0	.1	.3									1.4	4.7	3.0
140-160	.7	.8	.2									1.7	6.0	5.0
(S) 170-190	1.6	1.7	.8									4.0	6.1	5.0
200-220	4.7	4.7	3.1	.1								12.6	6.7	6.0
230-250	4.4	3.6	1.4									9.4	5.7	5.0
(W) 260-280	2.9	2.3	1.1	.1	.3							6.8	6.7	6.0
290-310	3.7	2.3	1.2	.1								7.3	5.5	4.5
320-340	2.8	3.6	3.7	.2	.1	.2						10.6	8.1	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	20.9	////	////
TOTALS	26.1	29.3	20.3	2.3	1.0	.2						100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	4.2	4.3	1.1	.2							12.6	8.6	9.0
020-040	1.6	4.0	3.1		.3							9.0	8.4	8.0
050-070	.2	2.2	1.2	.2	.1							4.0	8.9	8.0
(E) 080-100	.3	.1	.7	.2								1.3	10.3	11.0
110-130	.8	.8	.4									2.0	5.8	5.0
140-160	1.2	1.1	.1	.1								2.6	5.5	5.0
(S) 170-190	1.4	2.8	.8									5.0	6.2	6.0
200-220	3.8	5.2	1.4	.8								11.2	6.7	6.0
230-250	5.3	4.2	1.8	.1								11.4	5.8	5.0
(W) 260-280	3.3	2.2	1.0	.4								7.0	5.8	5.0
290-310	3.8	2.0	.9									6.7	4.8	3.5
320-340	2.8	3.3	2.6	.4	.3							9.4	7.9	8.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	17.8	////	////
TOTALS	27.2	32.1	18.3	3.3	.9							100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	6.0	7.3	1.1	.2							16.8	9.2	10.0
020-040	2.1	4.1	3.2	.7	.1							10.2	8.6	9.0
050-070	1.2	3.8	1.7	.4	.1							7.2	8.1	7.0
(E) 080-100	.7	1.3	.4	.1	.1	.1						2.8	8.3	7.0
110-130	1.2	.7	.4									2.3	5.2	4.0
140-160	1.1	2.2	.6									3.9	5.9	5.0
(S) 170-190	.6	2.7	1.9									5.1	8.3	8.0
200-220	2.7	4.0	3.1	1.0								10.8	8.1	8.0
230-250	1.1	5.8	4.2	1.2								12.3	9.1	9.0
(W) 260-280	.8	3.2	1.9	.2	.2							6.3	8.9	9.0
290-310	2.0	1.9	2.4	.4								6.8	8.1	8.0
320-340	2.2	3.4	3.7	.6								9.9	8.2	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.6	//////	//////
TOTALS	17.8	39.1	30.8	5.7	.7	.1						100.0	7.9	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	6.9	5.7	.8	.1							14.6	8.8	8.0
020-040	3.1	7.1	2.7	.7								13.6	7.4	7.0
050-070	2.4	4.7	.4	.2								7.8	6.0	5.0
(E) 080-100	1.2	3.1	.8	.1			.1	.1				5.4	8.0	7.0
110-130	.8	1.0	.4				.1					2.3	6.9	5.0
140-160	1.6	1.1	.4	.1								3.2	6.0	5.0
(S) 170-190	1.1	2.4	2.2	.1								5.9	7.9	7.0
200-220	.8	3.9	5.6	.3	.3							10.9	9.8	10.0
230-250	.9	4.3	6.2	1.4								12.9	10.1	10.0
(W) 260-280	1.1	3.4	2.3	.8								7.7	9.0	8.0
290-310	.1	2.8	1.9	1.0	.2							6.0	10.4	10.0
320-340	1.4	2.9	3.0	.8								8.1	9.0	9.0
VARIABLE														
CALM												1.7		
TOTALS	15.6	43.6	31.6	6.3	.6		.2	.1				100.0	8.4	8.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	5.4	3.8	.8	.1							12.4	8.4	8.0
020-040	3.4	5.2	1.4	.4								10.6	6.4	6.0
050-070	2.4	3.8	.6	.3								7.1	5.8	5.0
(E) 080-100	3.0	3.3	.6	.1	.3		.2					7.6	6.9	5.0
110-130	3.4	2.3	.2									6.0	4.5	4.0
140-160	1.9	1.9	.8	.1	.1							4.8	6.6	5.0
(S) 170-190	1.6	1.7	2.4									5.7	7.8	9.0
200-220	1.3	4.9	2.6	.4								9.2	8.0	8.0
230-250	1.6	3.4	3.6	.8								9.3	8.8	9.0
(W) 260-280	1.2	2.9	2.2	.3								6.7	8.2	7.5
290-310	1.9	4.6	1.3	.6								8.3	7.5	7.0
320-340	1.4	3.1	2.1	.2								6.9	8.1	8.0
VARIABLE														
CALM												5.4		
TOTALS	25.4	42.5	21.6	4.0	.5		.2					100.0	7.0	7.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	4.4	2.4	.4	.2							10.3	7.5	7.0
020-040	3.1	2.4	2.0	.1								7.7	6.5	5.0
050-070	1.9	1.2	.4	.6	.1							4.2	6.6	5.0
(E) 080-100	1.7	1.3	.8		.1							3.9	6.2	6.0
110-130	1.9	.4	.1	.1								2.6	4.4	3.0
140-160	3.0	1.9	.8	.2	.1							6.0	5.8	4.5
(S) 170-190	3.4	3.0	1.8	.1								8.3	6.6	6.0
200-220	3.4	5.0	.8	.3								9.6	6.0	5.0
230-250	3.2	2.2	1.3	.6								7.3	6.7	5.5
(W) 260-280	3.2	1 4	1.1	.1	.1							6.0	5.9	4.0
290-310	2.6	2.0	.9	.1								5.6	6.1	5.0
320-340	.7	2.6	1.7	.4	.1							5.4	8.8	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	23.1	//////	//////
TOTALS	30.9	27.8	14.1	3.0	.7							100.0	5.0	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	5.0	4.0	.1								12.0	7.7	8.0
020-040	1.3	2.6	1.7	.8								6.3	8.2	7.0
050-070	1.1	.9	.7	.3	.1							3.1	7.8	6.0
(E) 080-100	.8	.7	.7									2.1	7.2	6.0
110-130	.7	.8										1.4	4.8	5.0
140-160	1.1	.9	.3	.1								2.4	6.0	5.0
(S) 170-190	2.7	4.8	2.4	.1								10.0	6.9	6.0
200-220	5.1	5.9	1.8	.4								13.2	6.2	6.0
230-250	2.2	3.3	2.0	.7								8.2	7.5	6.0
(W) 260-280	1.8	2.4	.7	.3								5.2	6.7	6.0
290-310	1.7	2.1	1.0		.1							4.9	6.4	6.0
320-340	.9	2.7	3.7	.6	.1							7.9	9.4	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	23.1	//////	//////
TOTALS	22.3	32.1	19.0	3.4	.3							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	5.0	4.6	.7	.2							12.6	8.5	8.0
020-040	2.3	4.2	2.4	.4	.1							9.4	7.6	7.0
050-070	1.4	2.5	.8	.4	.1							5.2	7.4	6.0
(E) 080-100	1.1	1.4	.6	.1	.1	.0	.0	.0				3.3	7.4	6.0
110-130	1.3	.8	.3	.0			.0					2.4	5.0	4.0
140-160	1.4	1.4	.4	.1	.0							3.3	6.0	5.0
(S) 170-190	1.8	2.8	1.6	.1								6.2	7.0	6.0
200-220	3.3	5.0	2.5	.5	.0							11.3	7.2	6.5
230-250	2.8	3.7	2.7	.7								9.9	7.7	7.0
(W) 260-280	2.1	2.6	1.4	.3	.1							6.5	7.3	7.0
290-310	2.4	2.5	1.4	.3	.0							6.7	6.9	6.0
320-340	1.7	3.2	2.9	.5	.1	.0						8.3	8.4	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	15.0	//////	//////
TOTALS	23.8	35.1	21.6	4.1	.7							100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	10.4	10.1	1.0	.4							24.9	8.7	9.0
020-040	1.4	4.3	9.4	.6								15.7	9.8	10.0
050-070	.5	1.0	2.6	2.8	.5							7.4	13.2	14.0
(E) 080-100	.9	1.0	2.5	.5	.5							5.4	10.8	12.0
110-130	.5	.9	.5	.1								2.0	7.1	6.0
140-160	1.3	1.3	.1									2.6	5.1	5.0
(S) 170-190	1.5	2.0	.9									4.4	6.3	6.0
200-220	1.3	1.5	.5	.1								3.4	6.5	6.0
230-250	1.4	3.4	2.1	.5								7.4	8.2	8.0
(W) 260-280	1.3	2.0	.6		.1							4.0	6.9	7.0
290-310	1.6	1.6	.6	.1	.1							4.1	6.5	6.0
320-340	2.3	4.9	2.8	.5								10.4	7.7	7.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	8.2	////	////
TOTALS	17.0	34.3	32.7	6.2	1.6							100.0	8.0	8.0

TOTAL NUMBER OF OBSERVATIONS 796

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	6.5	3.3	.9	.2							14.0	7.8	7.0
020 040	1.6	3.2	.8	.6	.3							6.6	7.8	6.0
050-070	.3	1.0	.5	.2								2.0	8.6	7.0
(E) 080-100	.3	.2	.5	.1								1.2	8.8	10.0
110-130	.3	.2		.1								.6	6.2	5.0
140-160	.3	.2	.1									.6	5.3	4.5
(S) 170-190	1.3	1.2	.6									3.1	6.0	6.0
200-220	5.4	7.0	4.3	.6								17.3	7.1	6.0
230-250	2.2	5.3	3.2	.2								10.9	7.4	7.0
(W) 260-280	3.0	3.0	.9	.2	.2	.1						7.4	7.0	6.0
290-310	3.2	3.3	1.1	.3								8.0	6.3	5.0
320-340	3.3	3.8	3.8	.5								11.4	7.6	8.0
VARIABLE														
CALM												16.9		
TOTALS	24.3	34.9	19.1	3.7	.7	.1						100.0	6.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.5	3.7	4.7	1.2	.2	.1						13.4	8.6	8.0
020-040	1.6	4.2	1.6	.8	.1	.1						8.4	8.3	7.5
050-070	.6	1.5	.4	.3								2.9	7.8	8.0
(E) 080-100	.3	.4	.6									1.4	7.9	9.0
110-130	.4				.2							.6	8.5	4.0
140-160	.8	.2	.1		.1							1.2	6.1	4.0
(S) 170-190	1.3	1.1	.4									2.8	5.4	5.0
200-220	4.7	5.9	2.9	.3								13.9	6.9	6.0
230-250	2.8	4.5	4.0	.3								11.6	7.6	7.0
(W) 260-280	4.1	2.3	1.9	.5	.1							8.9	6.6	5.0
290-310	4.7	2.3	1.8	.1								8.9	5.8	4.0
320-340	4.1	3.2	2.4	.6	.2							10.5	7.4	7.5
VARIABLE														
CALM												15.4		
TOTALS	28.9	29.3	20.8	4.1	.9	.2						100.0	6.2	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.7	5.3	4.0	1.4	.6							14.9	8.7	8.0
020-040	2.2	3.2	1.8	.4								7.6	7.5	7.0
050-070	1.2	1.2	1.0	.1								3.4	7.3	7.0
(E) 080-100	.4	.6	.2									1.3	5.9	6.0
110-130	.6	.5										1.2	4.5	4.0
140-160	.8	.5	.2	.2								1.7	6.3	5.0
(S) 170-190	.9	1.4	.3	.3								2.9	7.0	6.0
200-220	2.8	4.4	3.3	.1								10.6	7.5	7.0
230-250	4.9	5.6	3.8	.6								14.9	7.1	6.0
(W) 260-280	3.3	3.1	1.5	.3								8.3	6.5	6.0
290-310	4.0	2.3	1.3									7.5	5.5	4.0
320-340	4.5	3.9	2.0	.4	.3							11.2	6.9	6.0
VARIABLE														
CALM												14.3		
TOTALS	29.3	32.0	19.4	3.8	.9							100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCESURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	7.4	6.3	1.9	.3	.1	.1					18.9	9.6	9.0
020-040	1.7	4.0	2.5	.9								9.0	8.2	8.0
050-070	1.7	1.3	1.0	.1								4.1	6.2	5.0
(E) 080-100	1.0	1.0	.6	.1								2.7	7.1	6.0
110-130	1.1	.6	.1									1.8	4.3	3.0
140-160	1.4	.6	.2									2.3	4.9	4.0
(S) 170-190	1.1	1.4	.5	.1								3.1	6.4	6.0
200-220	2.2	5.9	3.4	1.1	.1							12.7	8.4	8.0
230-250	2.5	4.8	6.7	.4	.2							14.6	8.9	9.5
(W) 260-280	1.3	2.8	1.6	.8			.1					6.6	8.7	8.0
290-310	1.9	2.3	2.5	.5	.2							7.4	8.4	9.0
320-340	1.7	3.0	4.9	1.1	.2	.1						11.1	9.7	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.7	//////	//////
TOTALS	20.3	35.1	30.3	7.0	1.0	.2	.2					100.0	8.0	8.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 12-14

DIRECTION (DEGREES)	WINDSPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	5.8	6.1	1.7	.2							15.9	9.6	10.0
020-040	2.9	5.3	3.1	.2	.2							11.7	7.5	7.0
050-070	2.2	2.6	.5	.2	.1							5.6	6.3	5.0
(E) 080-100	.8	1.4	1.0	.1								3.2	7.2	7.0
110-130	1.2	1.1	.2	.1								2.6	5.7	5.0
140-160	1.5	.8	.1	.1								2.5	4.8	4.0
(S) 170-190	1.1	2.3	1.1	.1								4.5	7.3	7.0
200-220	1.4	6.0	4.0	.9	.3							12.6	9.1	8.0
230-250	.4	5.5	7.3	1.4								14.6	10.2	10.0
(W) 260-280	.9	2.3	3.0	.6	.3		.1					7.2	10.1	10.0
290-310	.9	2.5	2.9	.6	.4	.1						7.4	10.2	10.0
320-340	1.3	2.5	4.3	1.1	.3							9.5	10.0	10.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	2.7	//////	//////
TOTALS	16.6	38.1	33.6	7.1	1.8	.1	.1					100.0	8.7	9.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	4.8	3.8	1.2	.3							12.4	8.7	8.0
020-040	5.2	4.5	2.0	.3	.2							12.3	6.2	5.0
050-070	2.6	2.3	.9	.4								6.1	6.4	5.0
(E) 080-100	2.2	1.3	.3									3.8	4.9	4.0
110-130	1.8	.6	.3									2.8	4.8	4.0
140-160	1.2	1.1	.1									2.4	4.6	4.5
(S) 170-190	2.0	1.7	.4	.3								4.5	5.9	5.0
200-220	1.8	6.3	3.4	.9								12.5	8.2	7.5
230-250	1.5	7.0	4.1	.4	.1							13.1	8.4	8.0
(W) 260-280	1.3	3.7	1.1	.2	.4							6.7	8.2	8.0
290-310	2.2	3.4	2.5	.2	.4	.1						8.8	8.5	8.0
320-340	1.7	4.0	3.1	.4		.1						9.4	8.3	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	5.4	//////	//////
TOTALS	25.[illegible]	40.7	22.0	4.3	1.4	.2						100.0	7.1	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	5.6	3.3	1.0								13.2	7.8	7.0
020-040	3.4	1.5	1.0	.4	.1							6.5	6.4	4.0
050-070	1.3	1.0	.4	.4								3.1	7.3	7.0
(E) 080-100	1.5	.2	.6	.1								2.5	6.2	3.0
110-130	.6											.6	2.0	1.5
140-160	1.1	.6	.2									1.9	4.6	4.0
(S) 170-190	2.8	3.4	1.1	.2								7.5	6.1	5.0
200-220	3.5	6.9	2.6	.4								13.4	6.9	6.0
230-250	3.8	3.1	1.7	.4		.1						9.1	6.4	5.0
(W) 260-280	2.4	1.6	1.1	.1								5.2	6.0	5.5
290-310	2.5	2.6	1.1	.2	.4							6.8	7.0	6.0
320-340	1.9	3.4	2.2	.2	.2							8.0	7.7	7.5
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	22.2	//////	//////
TOTALS	28.1	29.9	15.3	3.4	.7	.1						100.0	5.3	6.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	7.1	2.8	.4	.6							13.0	8.2	8.0
020-040	1.9	2.2	1.6	.3								6.0	7.1	7.5
050-070	1.0	1.2		.2	.2							2.6	7.5	6.0
(E) 080-100	.6	.2	.4	.4								1.7	8.7	9.0
110-130	.3	.2										.5	4.8	4.0
140-160	.1	.4	.1									.6	7.5	7.5
(S) 170-190	1.7	2.6	1.2	.1								5.6	6.5	6.0
200-220	4.6	7.1	3.8	.2	.1							15.8	7.1	7.0
230-250	3.7	4.3	3.0	.6								11.6	7.3	7.0
(W) 260-280	2.2	1.9	.6	.4		.1						5.3	7.0	6.0
290-310	2.9	2.4	1.0	.5								6.8	6.3	5.0
320-340	2.8	2.5	3.3	.3	.2							9.1	8.0	8.0
VARIABLE														
CALM												21.3		
TOTALS	23.8	32.1	17.8	3.4	1.1	.1						100.0	5.8	7.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.8	5.8	4.3	1.2	.3	.0	.0					14.5	8.7	8.0
020-040	2.6	3.5	1.8	.5	.1	.0						8.5	7.3	6.0
050-070	1.4	1.5	.6	.3	.0							3.7	6.9	6.0
(E) 080-100	.9	.7	.6	.1								2.2	6.8	6.0
110-130	.8	.4	.1	.0	.0							1.4	5.0	4.0
140-160	.9	.6	.1	.0	.0							1.7	5.2	4.0
(S) 170-190	1.5	1.9	.7	.1								4.3	6.3	6.0
200-220	3.3	6.2	3.5	.6	.1							13.6	7.6	7.0
230-250	2.7	5.0	4.2	.6	.0	.0						12.6	8.0	8.0
(W) 260-280	2.3	2.6	1.5	.4	.1	.0	.0					6.9	7.5	7.0
290-310	2.8	2.6	1.8	.3	.2	.0						7.7	7.2	6.0
320-340	2.7	3.3	3.3	.6	.2	.0						10.0	8.2	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.0	//////	//////
TOTALS	24.7	34.1	22.5	4.7	1.0							100.0	6.7	7.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.7	10.2	8.3	3.4	1.6							28.2	9.5	9.0
020-040	2.9	4.0	2.2	.4	.5	.1						10.0	7.9	7.0
050-070	1.3	2.2	1.5	.1								5.1	7.4	7.0
(E) 080-100	.6	1.0	2.2	.7								4.5	10.6	11.0
110-130	.7	.2	.5	.1								1.6	7.1	6.0
140-160	.7	.4										1.1	3.0	2.0
(S) 170-190	1.8	1.0	1.0	.1								3.9	6.2	5.0
200-220	1.6	2.4	1.6	.1								5.7	7.2	6.0
230-250	1.7	3.4	3.7	1.0	.1							9.9	8.9	9.0
(W) 260-280	2.3	4.1	1.5	.2	.1							8.2	6.9	7.0
290-310	1.8	1.5	1.8	.5	.1							5.7	8.3	7.0
320-340	3.5	3.5	2.4	.1								9.6	6.4	5.0
VARIABLE														
CALM												6.7		
TOTALS	23.6	33.9	26.7	6.7	2.4	.1						100.0	7.6	8.0

TOTAL NUMBER OF OBSERVATIONS 827

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	4.1	3.3	.7	.2	.0	.0		.0			10.4	8.6	8.0
020-040	1.9	3.9	2.7	.6	.1	.0	.0					9.3	8.3	8.0
050-070	1.7	3.6	1.5	.3	.1	.0	.0					7.1	7.4	7.0
(E) 080-100	1.8	2.4	.6	.1	.0	.0	.0	.0				5.0	6.0	5.0
110-130	1.9	2.2	.4	.0	.0	.0	.0					4.5	5.4	5.0
140-160	1.5	1.4	.3	.0	.0							3.2	5.4	5.0
(S) 170-190	1.8	2.9	1.3	.2	.0	.0						6.3	7.0	6.0
200-220	2.5	5.6	3.5	.6	.1	.0						12.2	7.9	8.0
230-250	2.8	4.4	3.0	.5	.1	.0						10.7	7.7	7.0
(W) 260-280	2.0	2.3	1.3	.3	.1	.0	.0					5.9	7.2	6.0
290-310	2.1	2.0	1.0	.2	.0	.0						5.4	6.7	6.0
320-340	1.8	2.5	1.8	.4	.1	.0	.0					6.7	7.9	8.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.3	//////	//////
TOTALS	23.8	37.3	20.7	3.9	.8							100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS: 87667

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).
AND/OR
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	7.8	6.8	2.2	.9	.1	.0		.0			20.9	9.7	9.0
020-040	1.9	5.3	5.6	1.8	.7	.1	.1					15.5	10.2	10.0
050-070	1.7	3.6	2.9	1.0	.3	.1	.0					9.6	9.2	9.0
(E) 080-100	1.3	2.0	1.2	.4	.1	.0						5.1	8.1	7.0
110-130	1.4	1.3	.4	.1	.0	.0						3.2	5.9	5.0
140-160	1.0	.9	.5	.1								2.4	6.3	5.0
(S) 170-190	1.2	1.5	.6	.1	.0							3.5	6.6	6.0
200-220	1.4	2.2	1.1	.1	.0							4.8	7.0	6.0
230-250	1.7	2.9	1.7	.2	.0							6.6	7.3	7.0
(W) 260-280	1.3	2.2	.9	.1	.1							4.5	7.1	7.0
290-310	1.8	2.2	.9	.2	.0							5.1	6.4	6.0
320-340	2.5	4.1	2.1	.5	.1	.0	.0					9.3	7.6	7.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	9.4	//////	//////
TOTALS	20.2	36.0	24.7	6.8	2.2	.3	.1					100.0	7.7	8.0

TOTAL NUMBER OF OBSERVATIONS: 8223

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT        DDDDDDDD
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT        DDDDDDDDD
PP      PP    AA      AA    RR      RR        TT            DD      DD
PP      PP    AA      AA    RR      RR        TT            DD      DD
PPPPPPPPP     AA      AA    RRRRRRRRR         TT            DD      DD
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT            DD      DD
PP            AAAAAAAAAA    RR    RR          TT            DD      DD
PP            AA      AA    RR     RR         TT            DD      DD
PP            AA      AA    RR      RR        TT            DDDDDDDDD
PP            AA      AA    RR       RR       TT            DDDDDDDDD
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PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VS VISIBILITY--PERCENT OCCURRENCE FREQUENCY (POF).
CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET--"NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), EITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE MILES OR 9000 METERS. VALUES EXCEEDING 9000 METERS ARE REPORTED AS "9999."

NOTE 2: FOR OVERSEAS CIVILIAN STATIOS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.

CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.
FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.

SKY COVER--PERCENT OCCURRENCE FREQUENCY.
ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURRED, OR TOTALLY OBSCURRED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.

NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

0/8.....CLEAR

1/8 THRU 4/8.....SCATTERED

5/8 THRU 7/8.....BROKEN

8/8.....OVERCAST

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS," HOWEVER, ARE INCLUDED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.9	52.2	53.4	53.9	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 20000	56.0	57.5	58.8	59.2	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 18000	56.1	57.6	58.9	59.4	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 16000	56.1	57.6	58.9	59.4	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 14000	56.3	57.8	59.1	59.6	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 12000	57.0	58.5	59.8	60.2	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 10000	59.8	61.7	63.0	63.4	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 9000	60.5	62.5	63.8	64.2	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 8000	66.6	68.6	70.1	70.8	71.2	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 7000	67.3	69.5	71.1	71.7	72.3	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 6000	67.3	69.5	71.1	71.7	72.3	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 5000	70.1	72.3	73.9	74.5	75.1	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 4500	70.5	72.7	74.3	74.9	75.5	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 4000	73.3	76.1	78.2	78.8	79.4	79.6	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 3500	74.3	77.1	79.1	80.0	80.6	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 3000	75.5	78.8	81.4	82.3	82.9	83.1	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 2500	76.2	80.0	82.8	83.7	84.3	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2000	76.9	80.6	83.5	84.4	85.3	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 1800	76.9	80.8	83.7	84.5	85.4	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 1500	77.0	80.9	84.0	84.8	85.8	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 1200	77.5	81.4	84.7	85.6	86.7	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1000	77.5	81.4	84.7	85.7	87.1	87.3	87.5	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6
GE 900	77.5	81.4	84.9	85.9	87.4	87.6	87.8	87.8	87.8	87.8	88.0	88.0	88.0	88.0	88.0	88.0
GE 800	77.5	81.4	84.9	85.9	87.4	87.6	88.1	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3
GE 700	77.5	81.6	85.3	86.2	88.1	88.3	88.9	88.9	88.9	89.1	89.2	89.2	89.2	89.2	89.2	89.2
GE 600	77.8	82.0	85.8	87.2	89.0	89.2	90.1	90.1	90.1	90.3	90.4	90.4	90.4	90.4	90.4	90.4
GE 500	77.8	82.2	86.5	88.2	90.4	91.1	92.4	92.5	92.5	92.8	92.9	92.9	92.9	92.9	92.9	93.0
GE 400	77.8	82.3	86.6	88.3	90.8	91.4	93.2	93.9	94.1	94.6	94.7	94.7	95.1	95.1	95.3	95.4
GE 300	77.8	82.3	86.6	88.3	90.9	91.5	93.7	94.7	9.4	96.3	96.7	96.7	97.0	97.0	97.3	97.8
GE 200	77.8	82.3	86.6	88.3	90.9	91.6	93.8	94.8	95.5	96.7	97.6	97.6	98.0	98.0	98.5	99.1
GE 100	77.8	82.3	86.6	88.3	90.9	91.6	93.8	94.8	95.5	96.7	97.8	98.0	98.3	98.3	98.8	99.8
GE 000	77.8	82.3	86.6	88.3	90.9	91.6	93.8	94.8	95.5	96.7	97.8	98.0	98.3	98.3	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.4	52.4	53.1	53.1	53.1	53.1	53.1	53.4	53.4	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 20000	56.5	58.5	59.2	59.2	59.2	59.2	59.2	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 18000	56.5	58.5	59.2	59.2	59.2	59.2	59.2	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 16000	56.5	58.5	59.2	59.2	59.2	59.2	59.2	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 14000	56.6	58.7	59.5	59.5	59.5	59.5	59.5	59.8	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 12000	57.3	59.6	60.3	60.3	60.3	60.3	60.3	60.6	60.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9
GE 10000	60.5	62.9	63.8	63.8	63.8	63.8	63.8	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 9000	61.2	63.5	64.4	64.4	64.4	64.4	64.4	64.7	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 8000	66.3	68.7	69.6	69.6	69.6	69.6	69.6	69.9	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 7000	67.8	70.2	71.1	71.2	71.3	71.3	71.4	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 6000	68.1	70.4	71.3	71.5	71.6	71.6	71.7	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 5000	70.2	72.6	73.4	73.7	73.8	73.8	74.1	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 4500	70.9	73.2	74.2	74.4	74.5	74.5	74.8	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 4000	73.1	76.0	77.1	77.4	77.5	77.5	77.8	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 3500	74.1	77.0	78.1	78.4	78.5	78.5	78.8	79.1	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 3000	75.4	78.4	79.8	80.5	80.6	80.6	81.0	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 2500	76.6	79.7	81.2	81.9	82.0	82.0	82.4	82.7	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 2000	76.9	80.0	81.5	82.4	82.7	82.7	83.1	83.4	83.4	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 1800	77.0	80.1	81.6	82.5	82.9	82.9	83.3	83.7	83.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 1500	77.2	80.4	82.3	83.4	83.9	83.9	84.5	84.8	84.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1200	77.6	80.9	83.0	84.3	84.8	84.8	85.5	85.8	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.
GE 1000	77.6	81.0	83.3	84.7	85.6	85.7	86.5	86.8	86.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 900	78.1	81.4	83.9	85.3	86.5	86.7	87.4	87.7	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 800	78.2	81.7	84.4	85.8	87.5	87.7	88.5	88.8	88.9	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 700	78.2	81.9	84.7	86.1	88.2	88.4	89.1	89.5	89.6	89.9	90.1	90.1	90.1	90.1	90.1	90.1
GE 600	78.2	81.9	84.9	86.7	89.5	89.7	90.6	91.2	91.3	91.7	91.9	91.9	91.9	91.9	91.9	91.9
GE 500	78.4	82.4	85.5	87.4	90.5	90.8	91.7	92.7	92.8	93.2	93.4	93.4	93.4	93.4	93.4	93.4
GE 400	78.4	82.7	85.8	88.0	91.3	91.8	93.0	94.1	94.2	95.4	95.7	95.7	95.8	95.8	95.8	95.8
GE 300	78.4	82.7	85.8	88.1	91.4	91.9	93.5	95.1	95.5	96.8	97.2	97.2	97.4	97.4	97.4	97.4
GE 200	78.4	82.7	85.8	88.1	91.4	91.9	93.5	95.1	95.5	97.0	97.5	97.8	98.3	98.4	98.7	98.8
GE 100	78.4	82.7	85.8	88.1	91.4	91.9	93.5	95.1	95.5	97.0	97.5	98.2	98.8	98.9	99.2	99.5
GE 000	78.4	82.7	85.8	88.1	91.4	91.9	93.5	95.2	95.6	97.1	97.6	98.3	98.9	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.5	48.0	49.2	49.6	49.6	49.7	49.9	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.3	50.3
GE 20000	51.7	53.7	55.1	55.5	55.5	55.6	55.8	55.8	55.9	55.9	56.0	56.0	56.1	56.1	56.3	56.3
GE 18000	51.7	53.7	55.1	55.5	55.5	55.6	55.8	55.8	55.9	55.9	56.0	56.0	56.1	56.1	56.3	56.3
GE 16000	51.7	53.7	55.1	55.5	55.5	55.6	55.8	55.8	55.9	55.9	56.0	56.0	56.1	56.1	56.3	56.3
GE 14000	51.9	53.9	55.3	55.7	55.7	55.8	56.0	56.0	56.1	56.1	56.3	56.3	56.5	56.5	56.7	56.7
GE 12000	52.4	54.3	55.7	56.1	56.1	56.2	56.5	56.5	56.6	56.6	56.8	56.8	56.9	56.9	57.1	57.1
GE 10000	55.4	57.7	59.2	59.8	59.9	60.0	60.2	60.3	60.4	60.4	60.6	60.6	60.8	60.8	61.0	61.0
GE 9000	56.3	58.7	60.2	60.8	61.0	61.1	61.3	61.4	61.5	61.5	61.7	61.7	61.8	61.8	62.0	62.0
GE 8000	61.4	63.9	65.4	65.9	66.1	66.2	66.5	66.6	66.7	66.7	66.9	66.9	67.0	67.0	67.2	67.2
GE 7000	62.8	65.3	66.9	67.4	67.7	67.8	68.1	68.3	68.4	68.4	68.6	68.6	68.7	68.7	68.9	68.9
GE 6000	63.0	65.5	67.1	68.0	68.3	68.4	68.6	68.8	68.9	68.9	69.1	69.1	69.2	69.2	69.5	69.5
GE 5000	65.6	68.3	70.0	70.9	71.2	71.3	71.6	71.8	71.9	71.9	72.2	72.2	72.3	72.3	72.5	72.5
GE 4500	66.5	69.2	71.0	71.8	72.2	72.3	72.6	72.8	72.9	72.9	73.1	73.1	73.2	73.2	73.4	73.4
GE 4000	68.5	71.7	73.5	74.9	75.3	75.4	75.7	75.9	76.0	76.0	76.2	76.2	76.3	76.3	76.6	76.6
GE 3500	69.2	72.6	74.4	75.8	76.2	76.3	76.7	76.9	77.0	77.0	77.2	77.2	77.3	77.3	77.5	77.5
GE 3000	69.8	73.4	75.5	77.1	77.7	78.0	78.4	78.6	78.7	78.7	78.9	78.9	79.0	79.0	79.2	79.2
GE 2500	70.8	74.6	76.7	78.4	79.0	79.2	79.7	79.9	80.0	80.0	80.2	80.2	80.3	80.3	80.5	80.5
GE 2000	71.4	75.3	77.4	79.2	79.9	80.1	80.8	81.0	81.2	81.2	81.4	81.4	81.5	81.5	81.7	81.7
GE 1800	71.4	75.3	77.4	79.2	79.9	80.1	80.8	81.0	81.2	81.2	81.4	81.4	81.5	81.5	81.7	81.7
GE 1500	71.8	75.7	78.0	80.2	81.0	81.2	82.2	82.4	82.6	82.6	82.8	82.8	82.9	82.9	83.1	83.1
GE 1200	72.2	76.2	78.6	81.1	81.9	82.4	83.4	83.8	84.1	84.1	84.3	84.3	84.4	84.4	84.6	84.6
GE 1000	72.6	76.9	79.7	82.4	83.5	84.1	85.3	85.6	85.9	85.9	86.1	86.1	86.2	86.2	86.5	86.5
GE 900	73.1	77.5	80.4	83.2	84.5	85.3	86.5	86.8	87.1	87.1	87.3	87.3	87.4	87.4	87.6	87.6
GE 800	73.4	77.8	80.9	83.8	85.3	86.2	87.4	87.7	88.1	88.3	88.5	88.5	88.6	88.6	88.8	88.8
GE 700	73.4	77.8	80.9	83.9	85.7	86.7	88.0	88.4	88.7	88.9	89.4	89.4	89.5	89.5	89.7	9.7
GE 600	73.4	77.8	81.0	84.1	86.1	87.1	88.5	89.2	89.8	90.2	90.6	90.6	90.8	90.8	91.0	91.0
GE 500	73.5	78.1	81.4	84.7	87.4	88.5	89.9	91.0	91.5	92.2	92.6	92.6	92.7	92.7	92.9	92.9
GE 400	73.5	78.1	81.7	85.3	88.3	89.6	91.5	93.0	93.7	94.6	95.2	95.2	95.3	95.3	95.5	95.5
GE 300	73.7	78.2	81.9	85.5	88.7	90.6	93.1	94.9	95.7	97.0	97.6	97.6	97.8	97.8	98.3	98.3
GE 200	73.7	78.2	81.9	85.5	88.7	90.6	93.1	94.9	95.7	97.1	97.8	97.8	98.1	98.1	98.7	98.8
GE 100	73.7	78.2	81.9	85.5	88.7	90.6	93.1	94.9	95.7	97.1	97.8	98.0	98.2	98.2	99.2	99.7
GE 000	73.7	78.2	81.9	85.5	88.7	90.6	93.1	94.9	95.7	97.1	97.8	98.0	98.2	98.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.9	46.2	46.8	47.1	47.5	47.5	47.6	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 20000	47.6	50.6	51.5	51.8	52.3	52.4	52.5	52.5	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 18000	47.8	51.0	51.8	52.2	52.6	52.7	52.8	52.8	52.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9
GE 16000	48.0	51.1	51.9	52.3	52.7	52.8	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 14000	48.1	51.2	52.0	52.4	52.8	52.9	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 12000	48.6	52.2	53.1	53.4	53.9	54.0	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2
GE 10000	51.8	55.7	56.8	57.3	57.7	58.0	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 9000	52.9	56.8	57.8	58.4	58.8	59.0	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 8000	58.9	63.4	64.8	65.4	65.8	66.0	66.3	66.3	66.3	66.	66.5	66.5	66.5	66.5	66.5	66.5
GE 7000	60.5	65.1	66.6	67.1	67.5	67.7	68.1	68.1	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 6000	61.3	65.9	67.4	68.3	68.8	69.0	69.4	69.4	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5
GE 5000	63.3	68.2	70.3	71.4	71.9	72.2	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 4500	63.8	68.9	71.1	72.2	72.7	72.9	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 4000	65.9	71.7	74.3	76.0	76.6	76.9	77.2	77.2	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 3500	66.2	72.3	74.8	76.6	77.1	77.4	77.7	77.8	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 3000	67.2	73.5	76.2	78.2	78.7	79.2	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 2500	68.0	74.6	77.5	79.5	80.3	81.0	81.4	81.5	81.5	81.6	81.6	81.6	81.6	81.7	81.7	81.7
GE 2000	68.6	75.3	78.2	80.1	81.1	81.7	82.2	82.7	82.8	82.9	82.9	82.9	82.9	83.0	83.0	83.0
GE 1800	68.6	75.3	78.2	80.1	81.1	81.7	82.2	82.7	82.8	82.9	82.9	82.9	82.9	83.0	83.0	83.0
GE 1500	68.6	75.4	78.4	80.4	81.5	82.2	82.6	83.1	83.3	83.5	83.5	83.5	83.5	83.7	83.7	83.7
GE 1200	68.6	75.8	78.9	81.2	82.4	83.2	83.7	84.2	84.4	84.6	84.6	84.6	84.6	84.7	84.8	84.8
GE 1000	69.0	76.5	79.6	82.3	83.4	84.3	84.7	85.3	85.6	85.8	85.8	85.8	85.8	85.9	86.2	86.2
GE 900	69.1	76.7	79.9	82.7	84.1	85.1	85.5	86.1	86.5	86.7	86.7	86.7	86.7	86.8	87.1	87.1
GE 800	69.5	77.4	80.9	84.0	85.6	86.7	87.1	87.8	88.2	88.5	88.5	88.5	88.5	88.6	88.9	88.9
GE 700	69.5	77.5	81.2	84.8	86.7	88.1	88.5	89.4	89.8	90.1	90.1	90.1	90.1	90.2	90.5	90.5
GE 600	69.5	77.5	81.2	85.2	87.2	88.6	89.1	90.2	90.8	91.3	91.3	91.4	91.6	91.7	92.0	92.0
GE 500	69.5	77.5	81.5	85.8	88.4	89.9	90.8	92.0	92.7	93.4	93.8	93.9	94.1	94.2	94.5	94.5
GE 400	69.5	77.5	81.6	86.0	88.6	90.3	91.4	93.2	93.9	95.1	95.5	95.6	95.8	95.9	96.2	96.2
GE 300	69.5	77.5	81.6	86.0	88.8	90.5	92.0	94.0	94.7	96.5	97.2	97.3	97.6	97.7	98.2	98.5
GE 200	69.5	77.5	81.6	86.0	88.8	90.5	92.0	94.0	94.7	96.5	97.7	97.8	98.2	98.4	99.1	99.5
GE 100	69.5	77.5	81.6	86.0	88.8	90.5	92.0	94.0	94.7	96.5	97.7	97.8	98.3	98.5	99.6	100.0
GE 000	69.5	77.5	81.6	86.0	88.8	90.5	92.0	94.0	94.7	96.5	97.7	97.8	98.3	98.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.0	48.9	49.2	49.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
GE 20000	53.0	54.2	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 18000	53.5	54.7	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 16000	54.2	55.4	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 14000	54.6	55.9	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
GE 12000	55.6	56.9	57.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
GE 10000	59.1	60.6	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.4
GE 9000	59.7	61.3	62.0	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
GE 8000	64.9	67.2	68.6	68.8	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 7000	66.2	68.8	70.2	70.4	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 6000	66.8	69.8	71.2	71.4	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 5000	68.7	72.0	73.5	73.8	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 4500	69.1	72.5	74.0	74.2	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 4000	71.2	74.9	76.7	77.1	77.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 3500	72.5	76.3	78.2	78.6	79.0	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 3000	74.2	78.4	80.3	80.9	81.3	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 2500	74.5	78.8	80.8	81.5	82.5	83.3	83.4	83.5	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 2000	75.4	80.0	82.0	82.9	83.9	85.1	85.2	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 1800	75.4	80.0	82.0	82.9	83.9	85.1	85.2	85.3	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 1500	75.4	80.3	82.6	83.5	84.5	85.7	85.8	85.9	86.0	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 1200	75.5	80.6	83.4	84.4	85.4	86.8	87.0	87.1	87.2	87.4	87.4	87.4	87.4	87.5	87.5	87.5
GE 1000	75.8	81.3	4.1	85.3	86.2	87.6	88.0	88.2	88.3	88.5	88.5	88.5	88.5	88.6	88.6	88.6
GE 900	75.8	81.4	84.2	85.5	86.5	88.0	88.3	88.6	88.7	88.9	88.9	88.9	88.9	89.0	89.0	89.0
GE 800	76.2	82.0	85.1	86.3	87.3	88.8	89.4	89.7	89.8	90.1	90.1	90.1	90.3	90.4	90.5	90.5
GE 700	76.5	82.3	85.3	86.7	87.6	89.2	89.8	90.1	90.3	90.6	90.8	90.8	91.0	91.1	91.2	91.2
GE 600	76.5	82.4	85.5	86.9	88.0	90.3	91.5	91.8	92.0	92.6	92.7	92.7	92.9	93.1	93.3	93.3
GE 500	76.5	82.4	85.6	87.1	88.4	91.1	92.7	93.1	93.3	94.5	94.6	94.6	94.8	95.1	95.3	95.3
GE 400	76.5	82.4	85.6	87.2	88.8	91.9	93.8	94.3	94.6	96.1	96.2	96.2	96.6	96.8	97.0	97.2
GE 300	76.5	82.4	85.6	87.2	89.0	92.2	94.2	94.9	95.4	97.2	97.5	97.5	98.3	98.6	98.9	98.9
GE 200	76.5	82.4	85.6	87.2	89.0	92.2	94.2	95.1	95.5	97.4	97.8	98.0	98.8	99.1	99.5	99.6
GE 100	76.5	82.4	85.6	87.2	89.0	92.2	94.2	95.1	95.5	97.4	97.8	98.0	98.8	99.1	99.7	99.9
GE 000	76.5	82.4	85.6	87.2	89.0	92.2	94.2	95.1	95.5	97.4	97.8	98.0	98.8	99.1	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.5	50.5	51.1	51.2	51.3	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 20000	54.4	55.7	56.5	56.6	56.8	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 18000	54.8	56.1	56.9	57.0	57.2	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 16000	55.3	56.7	57.4	57.5	57.7	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
GE 14000	55.9	57.3	58.1	5.2	58.4	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 12000	57.1	58.7	59.7	59.8	60.0	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 10000	60.2	61.8	62.9	63.0	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 9000	60.8	62.5	63.5	63.7	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 8000	66.1	68.2	70.1	70.3	70.6	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 7000	67.5	70.0	71.9	72.2	72.5	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 6000	68.3	70.8	72.7	72.9	73.3	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 5000	70.4	73.4	75.4	75.6	76.1	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 4500	71.0	74.0	75.9	76.2	76.8	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 4000	72.8	75.9	78.0	78.3	78.9	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 3500	73.7	76.8	78.9	79.4	80.0	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 3000	74.8	78.3	80.5	81.0	81.6	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 2500	75.3	78.8	81.2	81.7	82.4	82.6	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 2000	76.8	80.4	83.0	83.9	84.5	84.8	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 1800	76.9	80.5	83.1	84.0	84.6	84.9	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 1500	77.3	81.4	84.2	85.5	86.5	86.8	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 1200	77.4	81.5	84.5	86.2	87.2	87.6	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1000	77.5	81.7	84.9	86.9	87.8	88.3	88.9	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 900	77.5	81.7	84.9	86.9	88.2	88.6	89.2	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 800	77.5	81.8	85.6	87.5	88.8	89.2	89.9	90.3	90.3	90.6	90.8	90.8	90.8	90.8	90.8	90.8
GE 700	77.6	82.0	85.8	87.7	89.0	89.5	90.1	90.5	90.6	91.0	91.1	91.1	91.1	91.1	91.1	91.1
GE 600	77.7	82.2	86.0	88.3	89.7	91.0	91.6	92.0	92.2	92.5	92.6	92.6	92.6	92.6	92.6	92.6
GE 500	77.8	82.3	86.3	88.7	90.2	92.3	93.0	93.9	94.1	94.9	95.1	95.1	95.3	95.3	95.3	95.3
GE 400	77.8	82.3	86.7	89.1	90.9	92.9	94.0	95.6	96.1	97.2	97.3	97.3	97.6	97.6	97.6	97.6
GE 300	77.8	82.3	86.7	89.1	90.9	92.9	94.0	95.9	96.5	97.6	97.8	98.0	98.4	98.5	98.5	98.5
GE 200	77.8	82.3	86.7	89.1	90.9	92.9	94.1	96.2	96.8	98.1	98.5	98.6	99.0	99.1	99.2	99.6
GE 100	77.8	82.3	86.7	89.1	90.9	93.0	94.2	96.5	97.0	98.3	98.7	98.8	99.2	99.4	99.7	100.0
GE 000	77.8	82.3	86.7	89.1	90.9	93.0	94.2	96.5	97.0	98.3	98.7	98.8	99.2	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.4	52.5	52.7	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.2
GE 20000	57.2	58.5	58.7	58.9	59.1	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5
GE 18000	57.6	58.9	59.1	59.4	59.6	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.9
GE 16000	57.7	59.0	59.2	59.5	59.7	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.0
GE 14000	58.0	59.2	59.5	59.7	59.9	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.2
GE 12000	60.0	61.3	61.5	61.7	61.9	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.3
GE 10000	62.4	63.9	64.1	64.3	64.5	64.5	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.8
GE 9000	62.8	64.4	64.7	64.9	65.2	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.5
GE 8000	68.9	71.0	71.5	71.8	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6
GE 7000	69.7	71.7	72.5	72.8	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.5
GE 6000	69.9	71.9	72.7	73.0	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8
GE 5000	71.9	74.1	74.9	75.4	75.9	75.9	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.3
GE 4500	72.5	74.6	75.5	76.0	76.6	76.6	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	77.0
GE 4000	74.3	76.8	77.7	78.3	79.1	79.1	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.6
GE 3500	75.4	77.8	78.8	79.4	80.2	80.2	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.6
GE 3000	76.6	79.2	80.4	81.1	82.0	82.0	82.3	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.5
GE 2500	77.0	79.8	81.0	81.6	82.7	82.7	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.0	83.0	83.1
GE 2000	77.7	80.5	81.7	82.7	83.8	83.8	84.4	84.4	84.4	4.5	84.5	84.5	84.5	84.5	84.5	84.6
GE 1800	77.7	80.5	81.7	82.8	83.9	83.9	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6	84.6	84.7
GE 1500	78.1	81.1	82.6	83.8	84.8	84.9	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.9
GE 1200	78.4	81.7	83.3	84.6	86.0	86.1	86.8	86.8	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.1
GE 1000	78.6	81.9	83.7	85.2	86.7	86.9	87.7	88.1	88.2	88.4	88.4	88.4	88.4	88.4	88.4	88.5
GE 900	78.7	82.2	84.1	85.6	87.3	87.5	88.4	88.7	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.1
GE 800	78.7	82.4	84.4	85.9	87.6	87.8	88.8	89.1	89.2	89.6	89.6	89.6	89.6	89.6	89.6	89.7
GE 700	78.9	82.6	84.6	86.1	88.2	88.4	89.5	89.9	90.0	90.3	90.4	90.4	90.4	90.4	90.4	90.5
GE 600	79.2	82.9	85.1	86.9	89.4	89.6	90.6	91.3	91.4	91.7	91.8	91.8	91.8	91.8	91.8	91.9
GE 500	79.4	83.0	85.3	87.1	89.7	90.6	91.7	92.7	92.8	93.2	93.3	93.3	93.4	93.4	93.5	93.7
GE 400	79.4	83.0	85.5	87.4	90.4	91.7	93.0	94.4	94.9	95.5	95.8	95.8	95.9	95.9	96.0	96.1
GE 300	79.4	83.0	85.5	87.4	90.4	92.0	93.3	94.8	95.4	96.7	97.1	97.1	97.4	97.4	97.6	97.7
GE 200	79.4	83.0	85.5	87.4	90.4	92.0	93.3	94.8	95.5	96.9	98.0	98.1	98.5	98.5	98.9	99.4
GE 100	79.4	83.0	85.5	87.4	90.4	92.0	93.3	94.8	95.5	96.9	98.0	98.1	98.5	98.5	98.9	99.6
GE 000	79.4	83.0	85.5	87.4	90.4	92.0	93.3	94.8	95.5	96.9	98.0	98.1	98.5	98.5	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.9	54.4	55.2	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 20000	57.4	59.2	60.1	60.2	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 18000	57.7	59.6	60.4	60.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 16000	57.7	59.6	60.4	60.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 14000	58.2	60.0	60.9	61.0	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 12000	59.5	61.3	62.2	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 10000	61.3	63.1	64.1	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 9000	61.6	63.4	64.4	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 8000	68.1	70.0	71.3	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 7000	68.6	70.5	71.9	72.2	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 6000	68.7	70.6	72.0	72.3	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 5000	71.5	73.7	75.1	75.4	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 4500	71.9	74.1	75.5	75.8	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 4000	73.4	76.0	77.7	78.1	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 3500	74.5	77.2	78.9	79.4	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 3000	75.9	78.7	80.8	81.3	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 2500	76.8	79.6	81.6	82.3	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 2000	77.7	80.8	83.0	83.7	84.1	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 1800	77.8	80.9	83.1	83.8	84.2	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 1500	77.8	80.9	83.3	84.2	84.9	85.3	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 1200	78.6	81.6	84.1	85.1	85.9	86.2	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1000	78.8	81.9	84.4	85.4	86.3	86.7	87.3	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 900	78.8	81.9	84.4	85.4	86.5	86.8	87.4	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 800	78.9	82.3	84.8	85.9	87.0	87.3	88.1	88.2	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 700	79.1	82.6	85.5	86.6	87.7	88.2	88.9	89.0	89.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 600	79.4	82.8	85.7	87.2	88.9	89.4	90.1	90.2	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 500	79.4	83.0	86.0	88.0	90.4	91.6	92.9	93.2	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 400	79.4	83.0	86.0	88.0	90.6	92.0	93.5	94.5	94.6	95.2	95.3	95.3	95.4	95.4	95.7	95.7
GE 300	79.4	83.0	86.0	88.2	91.0	92.5	94.2	95.2	95.6	96.5	97.0	97.0	97.7	97.7	98.2	98.3
GE 200	79.4	83.0	86.0	88.2	91.0	92.5	94.2	95.2	95.6	96.8	97.4	97.4	98.5	98.5	99.0	99.1
GE 100	79.4	83.0	86.0	88.2	91.0	92.5	94.2	95.2	95.7	96.9	97.6	97.6	98.7	98.7	99.4	99.6
GE 000	79.4	83.0	86.0	88.2	91.0	92.5	94.2	95.2	95.7	96.9	97.6	97.6	98.7	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.2	50.6	51.3	51.5	51.7	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 20000	54.2	56.0	56.9	57.1	57.3	57.3	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.6
GE 18000	54.5	56.3	57.1	57.3	57.5	57.6	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 16000	54.7	56.4	57.3	57.5	57.7	57.7	57.8	57.9	57.9	57.9	57.9	57.9	58.0	58.0	58.0	58.0
GE 14000	54.9	56.8	57.6	57.8	58.0	58.1	58.2	58.2	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 12000	55.9	57.8	58.7	58.9	59.1	59.2	59.3	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 10000	58.8	60.9	61.9	62.2	62.4	62.4	62.6	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 9000	59.5	61.6	62.6	62.9	63.1	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.5
GE 8000	65.2	67.6	68.9	69.3	69.5	69.6	69.7	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 7000	66.3	68.9	70.3	70.6	70.9	71.1	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4
GE 6000	66.7	69.3	70.7	71.1	71.5	71.6	71.7	71.8	71.8	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 5000	69.0	71.8	73.3	73.8	74.2	74.4	74.6	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8
GE 4500	69.5	72.4	73.9	74.4	74.9	75.0	75.2	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4
GE 4000	71.6	74.9	76.7	77.4	77.8	78.0	78.2	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4
G 3500	72.5	75.9	77.7	78.4	78.9	79.1	79.3	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.6
GE 3000	73.7	77.4	79.4	80.3	80.8	81.1	81.3	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5
GE 2500	74.4	78.2	80.3	81.3	82.0	82.3	82.5	82.6	82.6	82.7	82.7	82.7	82.8	82.8	82.8	82.8
GE 2000	75.2	79.1	81.3	82.4	83.1	83.5	83.9	84.1	84.1	84.2	84.2	84.2	84.2	84.3	84.3	84.3
GE 1800	75.2	79.2	81.4	82.5	83.2	83.6	84.0	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.4	84.4
GE 1500	75.4	79.5	81.9	83.2	84.1	84.5	85.0	85.2	85.3	85.4	85.4	85.4	85.4	85.4	85.5	85.5
GE 1200	75.7	80.0	82.6	84.1	85.0	85.5	86.1	86.3	86.4	86.5	86.5	86.5	86.5	86.6	86.6	86.6
GE 1000	75.9	80.3	83.1	84.7	85.8	86.4	87.0	87.3	87.4	87.5	87.6	87.6	87.6	87.6	87.7	87.7
GE 900	76.1	80.5	83.3	85.1	86.4	86.9	87.6	87.9	88.0	88.1	88.2	88.2	88.2	88.2	88.3	88.3
GE 800	76.3	80.9	83.9	85.6	87.1	87.7	88.4	88.7	88.8	89.1	89.2	89.2	89.2	89.2	89.3	89.3
GE 700	76.3	81.0	84.2	86.0	87.6	88.3	89.1	89.5	89.6	89.9	90.1	90.1	90.1	90.1	90.2	90.2
GE 600	76.5	81.2	84.4	86.5	88.5	89.4	90.3	90.8	91.0	91.4	91.5	91.5	91.6	91.6	91.7	91.7
GE 500	76.5	81.3	84.8	87.1	89.4	90.7	91.9	92.6	92.9	93.5	93.7	93.7	93.8	93.8	93.9	94.0
GE 400	76.5	81.4	84.9	87.4	90.0	91.5	92.9	94.1	94.5	95.5	95.7	95.7	95.9	96.0	96.1	96.2
GE 300	76.5	81.4	85.0	87.5	90.1	91.8	93.5	94.9	95.5	96.8	97.3	97.3	97.7	97.8	98.1	98.2
GE 200	76.5	81.4	85.0	87.5	90.1	91.8	93.5	95.0	95.6	97.0	97.8	97.9	98.4	98.5	99.0	99.2
GE 100	76.5	81.4	85.0	87.5	90.1	91.8	93.5	95.0	95.6	97.1	97.9	98.1	98.6	98.7	99.3	99.7
GE 000	76.5	81.4	85.0	87.5	90.1	91.8	93.5	95.1	95.6	97.1	97.9	98.1	98.6	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.6	49.6	49.9	50.4	50.9	50.9	51.1	51.1	51.1	51.4	51.4	51.4	51.5	51.5	51.6	51.6
GE 20000	55.4	56.4	57.1	57.6	58.1	58.1	58.3	58.3	58.3	58.5	58.5	58.5	58.7	58.7	58.8	58.8
GE 18000	55.7	56.8	57.5	58.0	58.4	58.4	58.7	58.7	58.7	58.9	58.9	58.9	59.0	59.0	59.1	59.1
GE 16000	55.7	56.8	57.5	58.0	58.4	58.4	58.7	58.7	58.7	58.9	58.9	58.9	59.0	59.0	59.1	59.1
GE 14000	55.9	57.0	57.7	58.2	58.7	58.7	58.9	58.9	58.9	59.1	59.1	59.1	59.2	59.2	59.4	59.4
GE 12000	56.9	58.0	58.7	59.1	59.6	59.6	59.8	59.8	59.8	60.1	60.1	60.1	60.2	60.2	60.3	60.3
GE 10000	58.5	59.6	60.3	60.8	61.2	61.2	61.5	61.5	61.5	61.7	61.7	61.7	61.8	61.8	62.0	62.0
GE 9000	58.9	60.0	60.7	61.1	61.6	61.6	61.8	61.8	61.8	62.1	62.1	62.1	62.2	62.2	62.3	62.3
GE 8000	62.3	63.6	64.3	64.8	65.7	65.7	66.0	66.0	66.0	66.3	66.3	66.3	66.4	66.4	66.5	66.5
GE 7000	64.1	65.4	66.1	66.5	67.5	67.5	67.7	67.7	67.7	68.1	68.1	68.1	68.2	68.2	68.3	68.3
GE 6000	64.1	65.4	66.1	66.5	67.5	67.5	67.7	67.7	67.7	68.1	68.1	68.1	68.2	68.2	68.3	68.3
GE 5000	66.4	67.7	68.4	68.9	69.8	69.8	70.1	70.1	70.1	70.4	70.4	70.4	70.6	70.6	70.7	70.7
GE 4500	66.8	68.2	68.9	69.4	70.3	70.3	70.6	70.6	70.6	70.9	70.9	70.9	71.0	71.0	71.1	71.1
GE 4000	69.4	71.1	71.8	72.3	73.5	73.5	73.7	73.7	73.7	74.1	74.1	74.1	74.2	74.2	74.3	74.3
GE 3500	71.1	73.1	73.9	74.3	75.5	75.5	75.7	75.7	75.7	76.1	76.1	76.1	76.2	76.2	76.3	76.3
GE 3000	72.9	74.9	75.6	76.1	77.3	77.3	77.6	77.6	77.6	78.1	78.1	78.1	78.2	78.2	78.3	78.3
GE 2500	73.3	75.4	76.1	76.7	77.9	77.9	78.2	78.2	78.2	78.7	78.7	78.7	78.8	78.8	78.9	78.9
GE 2000	74.0	76.6	77.4	78.4	79.6	79.7	80.1	80.1	80.1	80.6	80.6	80.6	80.7	80.7	80.8	80.8
GE 1800	74.4	77.0	77.9	78.9	80.1	80.2	80.6	80.6	80.6	81.0	81.0	81.0	81.2	81.2	81.3	81.3
GE 1500	74.6	77.3	78.1	79.3	80.6	80.7	81.0	81.0	81.0	81.5	81.5	81.5	81.6	81.6	81.7	81.7
GE 1200	76.1	79.0	79.9	81.0	82.3	82.4	82.8	82.8	82.8	83.3	83.3	83.3	83.4	83.4	83.5	83.5
GE 1000	76.2	79.4	80.3	81.6	83.2	83.3	83.6	83.6	83.6	84.1	84.1	84.1	84.2	84.2	84.3	84.3
GE 900	76.2	79.4	80.3	81.9	83.4	83.6	84.0	84.0	84.0	84.5	84.5	84.5	84.6	84.6	84.7	84.7
GE 800	76.3	79.5	80.6	82.2	83.9	84.2	84.6	84.6	84.7	85.3	85.4	85.4	85.5	85.5	85.6	85.6
GE 700	76.4	79.7	80.9	82.9	84.9	85.3	85.7	86.1	86.2	86.8	86.9	86.9	87.0	87.0	87.2	87.2
GE 600	76.4	79.9	81.2	83.5	86.3	87.0	87.5	87.9	88.0	88.6	88.7	88.7	88.8	88.8	88.9	88.9
GE 500	76.4	79.9	81.3	84.0	87.5	88.8	89.5	90.3	90.5	91.4	91.5	91.5	91.6	91.6	91.8	91.8
GE 400	76.4	79.9	81.3	84.1	88.3	89.6	90.5	91.5	91.8	92.9	93.3	93.3	93.4	93.4	93.6	93.6
GE 300	76.4	79.9	81.3	84.3	88.6	89.9	91.2	92.7	93.1	94.6	94.9	94.9	95.8	95.8	96.1	96.1
GE 200	76.4	79.9	81.3	84.3	88.6	89.9	91.3	93.3	93.6	95.6	96.5	96.5	97.6	97.6	98.1	98.2
GE 100	76.4	79.9	81.3	84.3	88.6	89.9	91.3	93.3	93.6	95.6	96.5	96.5	97.6	97.6	98.2	99.2
GE 000	76.4	79.9	81.3	84.3	88.6	89.9	91.3	93.3	93.6	95.6	96.5	96.5	97.6	97.6	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.1	49.2	49.8	50.2	50.4	50.5	50.8	50.9	50.9	51.2	51.2	51.2	51.6	51.6	51.9	52.5
GE 20000	51.1	53.2	53.9	54.4	54.9	55.0	55.2	55.4	55.4	55.7	55.7	55.7	56.1	56.1	56.4	57.0
GE 18000	51.2	53.4	54.1	54.5	55.0	55.1	55.4	55.5	55.5	55.8	55.8	55.8	56.2	56.2	56.5	57.1
GE 16000	51.2	53.4	54.1	54.5	55.0	55.1	55.4	55.5	55.5	55.8	55.8	55.8	56.2	56.2	56.5	57.1
GE 14000	51.4	53.5	54.2	54.7	55.1	55.2	55.5	55.6	55.6	55.9	55.9	55.9	56.3	56.3	56.7	57.2
GE 12000	52.3	54.4	55.1	55.6	56.1	56.2	56.4	56.5	56.5	56.9	56.9	56.9	57.2	57.2	57.6	58.2
GE 10000	54.2	56.9	57.6	58.1	58.5	58.7	58.9	59.0	59.0	59.4	59.4	59.4	59.7	59.7	60.1	60.7
GE 9000	54.3	57.0	57.7	58.2	58.7	58.8	59.0	59.2	59.2	59.6	59.6	59.6	60.0	60.0	60.3	60.9
GE 8000	59.1	62.3	63.0	63.5	64.3	64.4	64.7	64.9	64.9	65.3	65.3	65.3	65.6	65.6	66.0	66.5
GE 7000	60.9	64.1	64.8	65.3	66.1	66.2	66.4	66.7	66.7	67.0	67.0	67.0	67.4	67.4	67.7	68.3
GE 6000	60.9	64.1	64.9	65.4	66.2	66.3	66.5	66.8	66.8	67.1	67.1	67.1	67.5	67.5	67.8	68.4
GE 5000	62.3	65.7	66.5	67.0	68.1	68.3	68.6	68.8	68.8	69.1	69.1	69.1	69.5	69.5	69.8	70.4
GE 4500	62.4	66.0	66.8	67.4	68.4	68.7	68.9	69.1	69.1	69.5	69.5	69.5	69.8	69.8	70.2	70.8
GE 4000	64.3	68.3	69.3	70.1	71.1	71.4	71.6	71.8	71.8	72.2	72.2	72.2	72.6	72.6	72.9	73.5
GE 3500	66.0	70.0	70.9	71.8	72.9	73.1	73.4	73.6	73.6	74.0	74.0	74.0	74.3	74.3	74.7	75.3
GE 3000	68.9	73.0	74.2	75.4	76.4	76.7	76.9	77.1	77.1	77.5	77.5	77.5	77.9	77.9	78.2	78.8
GE 2500	69.1	73.3	74.4	75.9	76.9	77.1	77.4	77.6	77.6	78.0	78.0	78.0	78.3	78.3	78.7	79.3
GE 2000	70.0	74.3	75.5	76.9	78.2	78.4	78.7	79.0	79.0	79.4	79.4	79.4	79.7	79.7	80.1	80.7
GE 1800	70.2	74.6	75.7	77.1	78.6	78.8	79.0	79.4	79.4	79.7	79.7	79.7	80.1	80.1	80.4	81.0
GE 1500	70.4	74.8	76.1	77.5	79.2	79.4	79.6	80.0	80.0	80.3	80.3	80.3	80.7	80.7	81.0	81.6
GE 1200	71.0	75.4	76.9	78.4	80.2	80.4	80.7	81.0	81.0	81.4	81.4	81.4	81.7	81.7	82.1	82.7
GE 1000	71.4	75.9	77.4	79.3	81.3	81.5	81.7	82.1	82.1	82.4	82.4	82.4	82.8	82.8	83.2	83.7
GE 900	71.5	76.0	77.5	79.5	81.6	81.9	82.1	82.4	82.4	82.8	82.8	82.8	83.2	83.2	83.5	84.1
GE 800	71.6	76.4	78.0	80.1	82.2	82.4	82.7	83.0	83.0	83.4	83.4	83.4	83.7	83.7	84.1	84.7
GE 700	72.2	77.0	78.7	81.2	83.4	83.6	84.3	84.9	84.9	85.3	85.3	85.3	85.6	85.6	86.0	86.6
GE 600	72.2	77.1	78.9	81.9	84.2	84.7	85.4	86.0	86.0	86.3	86.3	86.3	86.7	86.7	87.0	87.6
GE 500	72.3	77.7	80.0	82.9	85.9	86.3	87.6	88.6	88.7	89.0	89.0	89.0	89.4	89.4	89.8	90.3
GE 400	72.3	77.7	80.0	83.3	86.9	87.5	89.4	90.5	90.8	91.4	91.4	91.4	91.8	91.8	92.1	92.7
GE 300	72.4	77.9	80.1	83.5	87.2	88.0	89.9	91.5	91.9	92.9	92.9	92.9	94.1	94.1	94.7	95.3
GE 200	72.4	77.9	80.1	83.5	87.2	88.0	90.1	91.9	92.3	93.9	94.2	94.2	95.6	95.6	96.6	97.3
GE 100	72.4	77.9	80.1	83.5	87.2	88.0	90.2	92.0	92.5	94.1	94.7	94.7	96.2	96.2	97.5	98.8
GE 000	72.4	77.9	80.1	83.5	87.2	88.0	90.2	92.0	92.5	94.1	94.7	94.7	96.2	96.2	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	41.9	44.4	46.2	46.5	47.0	47.5	47.7	48.2	48.2	48.8	49.1	49.1	49.1	49.2	49.6	49.9
GE 20000	45.8	49.0	51.1	51.6	52.3	52.9	53.1	53.7	53.7	54.3	54.7	54.7	54.7	54.8	55.1	55.7
GE 18000	45.8	49.0	51.1	51.6	52.3	52.9	53.1	53.7	53.7	54.3	54.7	54.7	54.7	54.8	55.1	55.7
GE 16000	45.8	49.0	51.1	51.6	52.3	52.9	53.1	53.7	53.7	54.3	54.7	54.7	54.7	54.8	55.1	55.7
GE 14000	45.8	49.0	51.1	51.6	52.3	52.9	53.1	53.7	53.7	54.3	54.7	54.7	54.7	54.8	55.1	55.7
GE 12000	46.4	49.6	51.7	52.2	52.9	53.5	53.7	54.3	54.3	54.9	55.2	55.2	55.2	55.4	55.7	56.3
GE 10000	49.6	53.0	55.1	55.7	56.7	57.2	57.5	58.1	58.1	58.7	59.0	59.0	59.0	59.1	59.5	60.1
GE 9000	49.9	53.4	55.5	56.1	57.0	57.6	57.8	58.4	58.4	59.0	59.4	59.4	59.4	59.5	59.8	60.4
GE 8000	54.7	58.7	61.0	61.8	62.9	63.5	63.7	64.3	64.3	64.9	65.3	65.3	65.3	65.4	65.7	66.3
GE 7000	55.8	60.1	62.4	63.4	64.4	65.0	65.3	65.8	65.8	66.4	66.8	66.8	66.8	66.9	67.3	67.8
GE 6000	56.3	60.5	62.9	63.8	65.0	65.6	65.8	66.4	66.4	67.0	67.4	67.4	67.4	67.5	67.8	68.4
GE 5000	58.1	62.5	65.0	66.0	67.1	67.8	68.1	68.7	68.7	69.3	69.6	69.6	69.6	69.7	70.1	70.7
GE 4500	58.3	62.8	65.3	66.2	67.4	68.1	68.3	68.9	68.9	69.5	69.8	69.8	69.8	70.0	70.3	70.9
GE 4000	59.5	64.3	67.4	68.6	69.8	70.7	70.9	71.6	71.6	72.2	72.6	72.6	72.6	72.7	73.0	73.6
GE 3500	61.2	66.1	69.1	70.3	71.6	72.4	72.8	73.5	73.5	74.1	74.4	74.4	74.4	74.6	74.9	75.5
GE 3000	62.3	67.5	70.7	72.1	73.5	74.3	74.8	75.5	75.5	76.1	76.4	76.4	76.4	76.6	76.9	77.5
GE 2500	62.4	68.0	71.4	72.8	74.2	75.0	75.5	76.2	76.2	76.8	77.1	77.1	77.1	77.3	77.6	78.2
GE 2000	63.8	69.4	72.9	74.4	75.9	76.9	77.4	78.1	78.1	78.7	79.0	79.0	79.0	79.2	79.5	80.1
GE 1800	64.2	69.7	73.3	74.9	76.6	77.7	78.2	78.9	78.9	79.5	79.9	79.9	79.9	80.0	80.3	80.9
GE 1500	64.9	70.8	74.6	76.6	78.3	79.7	80.3	81.0	81.0	81.6	82.0	82.0	82.0	82.1	82.4	83.0
GE 1200	65.6	71.7	75.5	77.5	79.4	80.8	81.4	82.1	82.1	82.8	83.2	83.2	83.2	83.3	83.6	84.2
GE 1000	66.1	72.3	76.1	78.3	80.2	81.6	82.2	82.9	83.0	83.9	84.2	84.2	84.2	84.3	84.7	85.3
GE 900	66.1	72.3	76.1	78.3	80.3	81.9	82.4	83.3	83.4	84.2	84.6	84.6	84.6	84.7	85.0	85.6
GE 800	66.3	72.6	76.3	78.6	80.7	82.3	82.9	83.7	83.9	84.7	85.0	85.0	85.0	85.2	85.5	86.3
GE 700	67.0	73.3	77.1	79.6	82.2	84.0	84.8	85.7	85.9	86.7	87.0	87.0	87.0	87.2	87.5	88.3
GE 600	67.0	73.3	77.1	79.7	82.8	84.7	85.5	86.5	86.6	87.4	87.8	87.8	87.8	87.9	88.2	89.0
GE 500	67.1	73.6	77.6	80.2	83.7	86.2	87.3	88.3	88.6	89.8	90.2	90.2	90.2	90.3	91.0	91.9
GE 400	67.1	73.6	77.6	80.6	84.6	87.3	88.5	89.8	90.2	91.9	92.3	92.3	92.3	92.5	93.3	94.3
GE 300	67.1	73.6	77.6	80.6	84.6	87.4	89.0	90.8	91.4	93.4	94.0	94.0	94.0	94.1	95.1	96.2
GE 200	67.1	73.6	77.6	80.6	84.6	87.5	89.3	91.0	91.8	93.8	94.8	94.8	95.2	95.4	96.7	97.9
GE 100	67.1	73.6	77.6	80.6	84.6	87.5	89.3	91.0	91.8	94.0	95.3	95.3	95.9	96.1	97.5	99.1
GE 000	67.1	73.6	77.6	80.6	84.6	87.5	89.3	91.0	91.8	94.0	95.3	95.3	95.9	96.1	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.4	46.9	47.8	48.3	48.5	48.6	48.6	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.9	49.1
GE 20000	49.4	52.2	53.5	53.9	54.2	54.3	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.8	55.0
GE 18000	49.4	52.2	53.5	53.9	54.2	54.3	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.8	55.0
GE 16000	49.4	52.2	53.5	53.9	54.2	54.3	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.8	55.0
GE 14000	49.4	52.2	53.5	53.9	54.2	54.3	54.3	54.3	54.3	54.5	54.5	54.5	54.5	54.5	54.8	55.0
GE 12000	49.6	52.5	53.9	54.4	54.7	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.2	55.5
GE 10000	52.4	55.6	57.0	57.5	57.7	57.8	57.8	57.8	57.8	58.1	58.1	58.1	58.1	58.1	58.3	58.5
GE 9000	53.1	56.3	57.7	58.2	58.4	58.5	58.5	58.5	58.5	58.8	58.8	58.8	58.8	58.8	59.0	59.2
GE 8000	58.4	62.3	64.0	64.5	64.8	64.9	64.9	64.9	64.9	65.1	65.1	65.1	65.1	65.1	65.4	65.6
GE 7000	59.2	63.6	65.3	65.8	66.2	66.3	66.3	66.3	66.3	66.5	66.5	66.5	66.5	66.5	66.8	67.0
GE 6000	59.6	64.0	65.7	66.3	66.9	67.0	67.0	67.0	67.0	67.3	67.3	67.3	67.3	67.3	67.5	67.7
GE 5000	60.8	65.1	67.5	68.2	68.8	68.9	68.9	68.9	68.9	69.1	69.1	69.1	69.1	69.1	69.4	69.6
GE 4500	61.6	66.0	68.6	69.3	69.8	70.0	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.4	70.7
GE 4000	63.0	67.7	70.7	71.5	72.2	72.3	72.3	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.8	73.0
GE 3500	64.8	69.7	72.9	73.7	74.4	74.6	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.8	75.0	75.3
GE 3000	65.6	71.3	75.0	76.2	77.1	77.3	77.3	77.3	77.3	77.6	77.6	77.6	77.6	77.6	77.9	78.1
GE 2500	66.3	72.2	76.2	77.6	78.7	79.0	79.0	79.0	79.0	79.4	79.4	79.4	79.4	79.4	79.6	79.9
GE 2000	67.1	73.1	77.4	78.8	80.4	80.8	80.9	80.9	80.9	81.3	81.3	81.3	81.3	81.3	81.5	81.7
GE 1800	67.3	73.3	77.5	78.9	80.6	80.9	81.0	81.0	81.0	81.4	81.4	81.4	81.4	81.4	81.6	81.9
GE 1500	68.9	75.0	79.4	80.8	82.6	83.2	83.3	83.3	83.3	83.6	83.6	83.6	83.6	83.6	83.9	84.1
GE 1200	69.4	75.9	80.3	81.7	84.1	84.7	84.9	84.9	84.9	85.3	85.3	85.3	85.3	85.3	85.5	85.7
GE 1000	69.7	76.2	80.7	82.2	84.6	85.3	85.6	85.6	85.6	86.1	86.1	86.1	86.2	86.2	86.5	86.7
GE 900	69.7	76.3	80.8	82.6	84.9	85.9	86.2	86.3	86.3	86.8	86.8	86.8	86.9	86.9	87.2	87.4
GE 800	69.8	76.9	81.4	83.2	85.5	86.5	86.9	87.0	87.0	87.6	87.6	87.6	87.8	87.8	88.0	88.2
GE 700	69.8	76.9	81.5	83.3	85.7	86.9	87.8	87.9	87.9	88.6	88.6	88.6	88.7	88.7	88.9	89.2
GE 600	69.8	76.9	81.6	83.4	85.9	87.4	88.5	88.9	88.9	89.8	89.8	89.8	89.9	89.9	90.1	90.3
GE 500	69.8	76.9	81.7	84.1	87.0	89.3	90.5	91.4	91.5	92.5	92.9	92.9	93.1	93.1	93.3	93.5
GE 400	69.8	76.9	81.7	84.1	87.9	90.1	91.5	92.9	93.1	94.6	95.1	95.1	95.2	95.2	95.4	95.8
GE 300	69.8	76.9	81.7	84.3	88.1	90.5	92.1	93.6	93.9	95.5	96.2	96.3	96.6	96.6	97.1	97.4
GE 200	69.8	76.9	81.7	84.3	88.1	90.5	92.1	93.8	94.0	95.8	97.2	97.3	97.6	97.6	98.4	98.7
GE 100	69.8	76.9	81.7	84.3	88.1	90.5	92.1	93.8	94.0	95.8	97.3	97.4	97.9	97.9	99.2	99.6
GE 000	69.8	76.9	81.7	84.3	88.1	90.5	92.1	93.8	94.0	95.8	97.3	97.4	97.9	97.9	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.3	49.5	49.5	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 20000	55.8	57.2	57.5	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 18000	56.1	57.5	57.7	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 16000	56.1	57.5	57.7	58.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 14000	56.3	57.7	58.0	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 12000	56.3	57.7	58.0	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 10000	58.9	60.3	60.7	60.9	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 9000	59.5	60.9	61.2	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
GE 8000	64.4	65.8	66.4	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 7000	65.3	66.7	67.3	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 6000	65.6	67.0	67.6	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 5000	67.3	69.0	69.8	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 4500	68.1	69.8	70.8	71.1	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 4000	69.1	71.4	72.3	73.0	73.5	73.6	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 3500	70.2	72.4	73.7	74.4	74.9	75.0	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 3000	72.6	75.3	76.6	77.5	78.2	78.3	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 2500	73.9	76.9	78.6	80.0	80.8	80.9	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 2000	74.7	78.0	79.7	81.5	82.6	82.8	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 1800	74.9	78.2	80.1	81.9	82.9	83.2	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 1500	75.6	79.0	80.9	82.8	84.1	84.5	84.8	85.0	85.0	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1200	76.0	79.6	81.7	83.6	84.9	85.3	85.7	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 1000	76.1	80.1	82.3	84.5	85.7	86.3	86.8	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 900	76.2	80.3	82.8	85.0	86.5	87.0	87.5	87.8	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 800	76.4	80.7	83.3	85.7	87.5	88.1	88.6	88.8	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0
GE 700	76.6	81.2	83.7	86.9	88.9	89.5	90.0	90.2	90.2	90.5	90.7	90.7	90.7	90.7	90.8	90.8
GE 600	76.6	81.2	83.7	87.3	89.8	90.9	91.5	92.0	92.0	92.2	92.5	92.5	92.5	92.5	92.6	92.6
GE 500	76.6	81.3	84.0	88.2	91.3	92.8	93.6	94.3	94.6	95.2	95.4	95.4	95.4	95.8	95.9	95.9
GE 400	76.6	81.3	84.0	88.3	91.5	93.4	94.3	95.2	95.4	96.2	96.5	96.5	96.7	97.1	97.4	97.4
GE 300	76.6	81.3	84.0	88.3	91.5	93.4	94.7	95.6	96.0	96.9	97.3	97.3	97.5	97.9	98.2	98.2
GE 200	76.6	81.3	84.0	88.3	91.5	93.4	94.7	95.9	96.3	97.4	98.2	98.2	98.5	98.8	99.2	99.2
GE 100	76.6	81.3	84.0	88.3	91.5	93.4	94.7	95.9	96.3	97.5	98.5	98.5	98.7	99.1	99.5	99.6
GE 000	76.6	81.3	84.0	88.3	91.5	93.4	94.7	95.9	96.3	97.5	98.5	98.5	98.7	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.1	49.1	49.6	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 20000	54.5	55.6	56.7	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 18000	54.8	55.8	56.9	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 16000	54.8	55.8	56.9	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 14000	55.8	56.9	58.2	58.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 12000	56.2	57.2	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 10000	58.9	60.1	61.4	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 9000	59.0	60.2	61.5	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 8000	63.8	65.5	66.8	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 7000	64.8	66.4	67.8	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
GE 6000	65.5	67.3	68.8	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 5000	67.4	69.1	70.8	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 4500	67.7	69.5	71.1	72.1	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 4000	70.4	72.4	74.2	75.3	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 3500	71.5	73.5	75.6	77.0	77.3	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 3000	73.4	75.7	78.0	79.4	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 2500	74.1	77.0	79.3	80.8	81.0	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 2000	74.9	78.0	80.3	82.1	82.7	83.0	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 1800	74.9	78.0	80.3	82.1	82.7	83.0	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 1500	75.3	78.4	81.3	83.0	83.6	84.0	84.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 1200	75.5	79.0	81.9	83.6	84.3	84.7	85.2	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 1000	75.6	79.4	82.3	84.1	85.2	85.5	86.1	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 900	75.9	79.6	82.7	84.6	85.9	86.2	86.8	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 800	75.9	80.0	83.4	85.7	87.4	87.8	88.3	88.7	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 700	76.4	80.6	84.2	867	89.0	89.5	90.1	90.5	90.8	91.0	91.0	91.0	91.0	91.0	91.3	91.3
GE 600	76.6	80.7	84.5	87.2	89.8	90.7	91.6	92.1	92.6	93.1	93.1	93.1	93.1	93.1	93.4	93.4
GE 500	76.7	80.8	84.6	87.9	90.9	92.1	93.2	93.9	94.7	95.3	95.3	95.3	95.4	95.4	95.8	95.8
GE 400	76.7	80.8	84.6	88.0	91.2	92.3	93.6	95.1	96.0	97.1	97.2	97.2	97.3	97.3	97.9	97.9
GE 300	76.7	80.8	84.6	88.0	91.2	92.3	94.0	95.8	96.8	98.4	98.5	98.5	98.7	98.7	99.3	99.3
GE 200	76.7	80.8	84.6	88.0	91.2	92.3	94.0	95.9	97.1	98.6	98.8	98.8	99.1	99.1	99.8	99.8
GE 100	76.7	80.8	84.6	88.0	91.2	92.3	94.0	95.9	97.1	98.6	98.8	98.8	99.1	99.1	99.8	99.8
GE 000	76.7	80.8	84.6	88.0	91.2	92.3	94.0	95.9	97.1	98.6	98.8	98.8	99.1	99.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.8	50.3	51.0	51.0	51.1	51.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 20000	53.2	55.1	56.2	56.2	56.3	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 18000	53.2	55.1	56.2	56.2	56.3	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 16000	53.2	55.1	56.2	56.2	56.3	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
GE 14000	53.8	55.7	56.9	57.0	57.1	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 12000	55.1	57.0	58.2	58.3	58.4	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 10000	55.9	58.0	59.1	59.4	59.5	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 9000	56.2	58.2	59.4	59.6	59.7	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 8000	60.2	62.5	63.8	64.3	64.4	64.5	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 7000	62.1	64.4	65.7	66.2	66.3	66.4	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 6000	62.3	64.7	66.0	66.4	66.5	66.7	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 5000	65.1	67.8	69.3	69.7	69.8	70.0	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 4500	65.5	68.2	69.6	70.1	70.2	70.3	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
GE 4000	68.7	71.7	73.5	74.2	74.4	74.7	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 3500	70.2	73.3	75.4	76.7	77.0	77.3	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 3000	71.6	75.0	77.1	78.4	78.8	79.0	79.7	79.9	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 2500	72.8	76.2	78.7	80.0	80.4	80.7	81.4	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 2000	73.7	77.5	80.1	81.4	82.2	82.4	83.4	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 1800	74.0	77.7	80.3	81.6	82.4	82.7	83.6	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 1500	74.1	78.0	80.8	82.1	82.9	83.2	84.1	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 1200	74.8	78.7	82.0	83.4	84.3	84.9	86.0	86.1	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6
GE 1000	74.9	78.8	82.3	83.7	85.4	86.1	87.2	87.3	87.5	87.6	87.8	87.8	87.8	87.8	87.8	87.8
GE 900	74.9	78.8	82.4	84.1	85.7	86.5	87.6	87.8	88.0	88.1	88.2	88.2	88.2	88.2	88.2	88.2
GE 800	75.0	78.9	82.7	84.9	86.8	87.5	88.7	88.8	89.0	89.4	89.5	89.5	89.5	89.5	89.5	89.5
GE 700	75.3	79.2	82.9	85.3	87.2	88.1	89.3	89.4	89.6	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 600	75.4	79.3	83.0	85.4	87.8	89.4	90.7	91.0	91.3	91.6	91.8	91.8	91.9	91.9	91.9	91.9
GE 500	75.4	79.3	83.2	85.6	88.3	90.3	91.9	92.7	93.4	93.9	94.0	94.0	94.1	94.1	94.1	94.1
GE 400	75.4	79.3	83.2	85.7	88.6	90.7	92.3	93.5	94.7	95.2	95.3	95.3	95.4	95.4	95.4	95.4
GE 300	75.4	79.3	83.3	85.9	88.7	90.9	92.8	94.6	95.9	97.2	97.8	97.8	98.0	98.0	98.0	98.0
GE 200	75.4	79.3	83.3	85.9	88.7	90.9	92.8	94.7	96.1	97.5	98.2	98.2	98.5	98.6	99.1	99.2
GE 100	75.4	79.3	83.3	85.9	88.7	90.9	92.8	94.8	96.2	97.6	98.6	98.6	98.9	99.1	99.8	99.9
GE 000	75.4	79.3	83.3	85.9	88.7	90.9	92.8	94.8	96.2	97.6	98.6	98.6	98.9	99.1	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.1	51.8	52.8	53.1	53.6	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7	53.7	53.7	53.7
GE 20000	55.9	56.8	58.1	58.4	58.9	58.9	58.9	58.9	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0
GE 18000	56.1	56.9	58.2	58.5	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1
GE 16000	56.1	56.9	58.2	58.5	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1
GE 14000	56.8	57.6	58.9	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8
GE 12000	57.1	58.0	59.2	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2
GE 10000	58.1	58.9	60.2	60.5	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1
GE 9000	58.1	58.9	60.2	60.5	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.1
GE 8000	62.5	63.7	65.0	65.4	65.8	65.8	65.8	65.8	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0
GE 7000	64.3	65.5	66.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.7	67.7	67.7	67.7	67.7	67.7
GE 6000	64.4	65.6	66.9	67.3	67.7	67.7	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8	67.8
GE 5000	66.2	67.5	69.4	69.8	70.4	70.4	70.4	70.4	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6
GE 4500	66.2	67.5	69.4	69.8	70.4	70.4	70.4	70.4	70.4	70.4	70.6	70.6	70.6	70.6	70.6	70.6
GE 4000	69.4	71.0	72.9	73.4	74.0	74.0	74.1	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3
GE 3500	70.2	72.1	74.1	74.6	75.3	75.3	75.4	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6
GE 3000	72.1	74.0	76.3	77.1	78.0	78.0	78.1	78.3	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4
GE 2500	72.7	74.7	77.1	78.1	79.3	79.3	79.4	79.6	79.6	79.7	79.9	79.9	79.9	79.9	79.9	79.9
GE 2000	74.1	76.1	78.6	79.9	81.4	81.5	81.7	82.0	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2
GE 1800	74.2	76.2	78.7	80.0	81.5	81.6	81.9	82.1	82.1	82.2	82.3	82.3	82.3	82.3	82.3	82.3
GE 1500	74.3	76.3	79.0	80.7	82.3	82.4	82.7	82.9	82.9	83.0	83.2	83.2	83.2	83.2	83.2	3.2
GE 1200	75.1	77.1	80.0	81.6	83.6	83.7	84.0	84.2	84.2	84.5	84.6	84.6	84.6	84.6	84.6	84.6
GE 1000	75.3	77.7	80.6	82.2	84.5	84.6	84.8	85.0	85.0	85.3	85.5	85.5	85.5	85.5	85.5	85.5
GE 900	75.3	77.7	80.7	82.3	84.7	84.9	85.2	85.4	85.4	85.6	85.9	85.9	85.9	85.9	85.9	85.9
GE 800	75.3	77.9	80.8	82.7	85.5	85.9	86.2	86.5	86.5	86.8	87.0	87.0	87.0	87.0	87.0	87.0
GE 700	75.4	78.1	81.2	83.3	86.1	86.5	86.8	87.0	87.0	87.4	87.6	87.6	87.6	87.6	87.6	87.6
GE 600	75.4	78.2	81.4	83.5	86.8	87.6	88.3	88.7	88.7	89.2	89.5	89.5	89.5	89.5	89.5	89.5
GE 500	75.4	78.2	81.7	83.9	87.8	89.0	90.2	91.3	91.5	92.0	92.3	92.3	92.3	92.3	92.3	92.3
GE 400	75.4	78.2	81.7	84.0	88.0	89.5	91.0	92.5	92.7	93.8	94.5	94.5	94.5	94.5	94.5	94.5
GE 300	75.4	78.2	81.7	84.1	88.3	89.9	91.8	93.5	94.1	96.1	96.9	97.1	97.2	97.2	97.2	97.2
GE 200	75.4	78.2	81.7	84.1	88.3	89.9	91.8	93.6	94.2	96.5	97.8	97.9	98.1	98.2	98.4	98.4
GE 100	75.4	78.2	81.7	84.1	88.3	89.9	91.8	93.6	94.2	96.5	97.8	97.9	98.2	98.4	98.9	99.9
GE 000	75.4	78.2	81.7	84.1	88.3	89.9	91.8	93.6	94.2	96.5	97.8	97.9	98.2	98.4	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 849

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: FEB HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.3	48.9	49.6	49.9	50.2	50.3	50.4	50.4	50.4	50.6	50.7	50.7	50.7	50.7	50.9	51.0
GE 20000	52.7	54.4	55.5	55.8	56.2	56.3	56.4	56.5	56.5	56.7	56.7	56.7	56.8	56.8	56.9	57.1
GE 18000	52.8	54.6	55.6	56.0	56.3	56.4	56.5	56.6	56.6	56.8	56.9	56.9	56.9	56.9	57.1	57.2
GE 16000	52.8	54.6	55.6	56.0	56.3	56.4	56.5	56.6	56.6	56.8	56.9	56.9	56.9	56.9	57.1	57.2
GE 14000	53.2	54.9	56.1	56.4	56.7	56.9	57.0	57.1	57.1	57.2	57.3	57.3	57.3	57.4	57.5	57.7
GE 12000	53.7	55.6	56.7	57.0	57.4	57.5	57.6	57.7	57.7	57.9	57.9	57.9	58.0	58.0	58.1	58.3
GE 10000	55.8	57.8	58.9	59.3	59.7	59.8	60.0	60.0	60.0	60.2	60.3	60.3	60.3	60.4	60.5	60.7
GE 9000	56.1	58.1	59.2	59.7	60.0	60.2	60.3	60.4	60.4	60.5	60.6	60.6	60.7	60.7	60.8	61.0
GE 8000	60.7	63.1	64.3	64.8	65.3	65.4	65.5	65.7	65.7	65.9	65.9	65.9	66.0	66.0	66.1	66.3
GE 7000	62.1	64.5	65.8	66.3	66.8	66.9	67.0	67.2	67.2	67.4	67.4	67.4	67.5	67.5	67.6	67.8
GE 6000	62.3	64.8	66.1	66.6	67.2	67.3	67.4	67.6	67.6	67.7	67.8	67.8	67.9	67.9	68.0	68.2
GE 5000	64.2	66.8	68.3	68.9	69.5	69.7	69.8	69.9	69.9	70.1	70.2	70.2	70.2	70.2	70.4	70.5
GE 4500	64.6	67.2	68.8	69.4	70.1	70.2	70.3	70.5	70.5	70.7	70.7	70.7	70.8	70.8	70.9	71.1
GE 4000	66.7	69.8	71.5	72.3	73.0	73.2	73.4	73.5	73.5	73.7	73.8	73.8	73.9	73.9	74.0	74.2
GE 3500	68.2	71.3	73.2	74.1	74.9	75.1	75.3	75.4	75.4	75.6	75.7	75.7	75.7	75.7	75.9	76.0
GE 3000	69.9	73.3	75.4	76.5	77.4	77.6	77.8	78.0	78.0	78.3	78.3	78.3	78.4	78.4	78.5	78.7
GE 2500	70.6	74.2	76.5	77.7	78.7	78.9	79.2	79.3	79.4	79.6	79.7	79.7	79.7	79.7	79.9	80.0
GE 2000	71.5	75.4	77.7	79.2	80.4	80.7	81.1	81.3	81.3	81.6	81.6	81.6	81.7	81.7	81.8	82.0
GE 1800	71.8	75.6	78.0	79.4	80.7	81.0	81.4	81.6	81.6	81.9	81.9	81.9	82.0	82.0	82.1	82.3
GE 1500	72.3	76.2	78.8	80.3	81.7	82.1	82.5	82.7	82.8	83.0	83.1	83.1	83.1	83.2	83.3	83.5
GE 1200	72.9	77.1	79.8	81.4	82.9	83.4	83.8	84.1	84.1	84.4	84.5	84.5	84.6	84.6	84.7	84.9
GE 1000	73.2	77.5	80.3	82.0	83.7	84.3	84.8	85.0	85.1	85.4	85.5	85.5	85.6	85.6	85.7	85.9
GE 900	73.2	77.6	80.4	82.3	84.1	84.7	85.2	85.5	85.6	85.9	86.0	86.0	86.1	86.1	86.2	86.4
GE 800	73.3	77.9	80.8	82.9	84.9	85.6	86.1	86.4	86.5	86.9	87.0	87.0	87.1	87.1	87.2	87.5
GE 700	73.6	78.2	81.3	83.6	85.9	86.7	87.4	87.7	87.8	88.3	88.4	88.4	88.5	88.5	88.7	88.9
GE 600	73.7	78.3	81.4	84.0	86.7	87.8	88.6	89.1	89.3	89.8	89.9	89.9	90.0	90.0	90.2	90.4
GE 500	73.7	78.5	81.8	84.6	87.8	89.4	90.5	91.4	91.7	92.4	92.6	92.6	92.7	92.8	93.0	93.2
GE 400	73.7	78.5	81.8	84.8	88.4	90.1	91.4	92.6	93.1	94.1	94.4	94.4	94.6	94.6	94.9	95.2
GE 300	73.7	78.5	81.8	84.9	88.5	90.3	91.9	93.5	94.1	95.6	96.1	96.1	96.5	96.5	97.0	97.2
GE 200	73.7	78.5	81.8	84.9	88.5	90.3	92.0	93.8	94.4	96.1	97.0	97.0	97.5	97.6	98.3	98.6
GE 100	73.7	78.5	81.8	84.9	88.5	90.3	92.0	93.8	94.5	96.2	97.2	97.2	97.8	97.9	98.8	99.5
GE 000	73.7	78.5	81.8	84.9	88.5	90.3	92.0	93.8	94.5	96.2	97.2	97.2	97.8	97.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.1	57.7	57.8	58.2	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	59.0
GE 20000	61.4	62.2	62.3	62.6	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4
GE 18000	61.4	62.2	62.3	62.6	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4
GE 16000	61.6	62.4	62.5	62.8	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.7
GE 14000	62.3	63.0	63.1	63.4	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.3
GE 12000	62.4	63.2	63.5	64.1	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9
GE 10000	64.7	65.6	65.9	66.5	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3
GE 9000	64.8	65.7	66.0	66.6	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.4
GE 8000	67.4	68.5	69.0	69.6	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4
GE 7000	69.1	70.2	70.8	71.3	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.2
GE 6000	69.2	70.3	70.9	71.4	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3
GE 5000	71.2	72.7	73.2	73.9	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.7
GE 4500	71.8	73.4	74.0	74.6	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5
GE 4000	73.8	75.4	76.0	76.8	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7
GE 3500	74.3	75.9	76.6	77.3	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3
GE 3000	75.6	77.6	78.3	79.1	80.0	80.2	80.2	80.2	80.2	8.2	80.2	80.2	80.2	80.2	80.2	80.3
GE 2500	76.3	78.4	79.2	80.1	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7
GE 2000	77.7	79.9	81.0	82.2	83.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3
GE 1800	77.7	79.9	81.0	82.2	83.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.3
GE 1500	78.9	81.2	82.3	83.7	85.2	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	86.0
GE 1200	79.7	82.0	83.5	84.9	86.6	87.2	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.5
GE 1000	80.3	82.7	84.2	85.8	87.5	88.4	88.6	88.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	89.0
GE 900	80.5	82.9	84.4	86.0	87.7	88.6	88.8	88.9	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.2
GE 800	80.5	83.1	84.6	86.5	88.3	89.1	89.4	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.8
GE 700	81.4	84.2	85.7	87.5	89.4	90.2	90.4	90.5	90.5	91.0	91.0	91.0	91.0	91.0	91.0	91.1
GE 600	81.6	84.5	86.0	87.8	89.9	91.0	91.3	91.5	91.5	91.9	91.9	91.9	91.9	91.9	91.9	92.0
GE 500	81.7	84.6	86.5	88.4	91.0	92.3	93.0	93.3	93.3	93.8	93.8	93.8	93.8	93.8	93.9	94.0
GE 400	82.0	84.9	86.9	88.8	92.3	94.1	94.9	95.3	95.3	95.7	95.7	95.7	95.7	95.7	95.8	95.9
GE 300	82.3	85.3	87.5	89.5	92.9	94.9	95.8	96.5	96.5	97.2	97.4	97.4	97.4	97.4	97.7	98.0
GE 200	82.3	85.3	87.5	89.5	92.9	94.9	95.9	96.8	96.9	97.7	98.0	98.0	98.3	98.3	98.7	99.0
GE 100	82.3	85.3	87.5	89.5	92.9	94.9	95.9	96.8	96.9	98.0	98.2	98.2	98.5	98.5	99.1	99.7
GE 000	82.3	85.3	87.5	89.5	92.9	94.9	95.9	96.8	96.9	98.0	98.2	98.2	98.5	98.5	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.6	55.8	56.0	56.0	56.2	56.5	56.7	56.8	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 20000	59.5	61.3	61.5	61.5	61.8	62.0	62.3	62.4	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 18000	59.7	61.5	61.7	61.7	62.0	62.3	62.5	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 16000	59.8	61.6	61.8	61.8	62.2	62.4	62.6	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 14000	60.1	61.9	62.2	62.2	62.5	62.7	62.9	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 12000	61.2	63.0	63.2	63.2	63.5	63.8	64.0	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 10000	63.8	65.6	65.8	65.8	66.1	66.5	66.7	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 9000	64.1	65.9	66.1	66.1	66.5	66.8	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 8000	67.4	69.2	69.5	69.5	69.8	70.1	70.3	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 7000	68.6	70.4	70.6	70.6	71.1	71.4	71.6	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 6000	68.9	70.8	71.0	71.0	71.4	71.7	71.9	72.0	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 5000	70.1	72.0	72.6	72.6	73.0	73.3	73.5	73.7	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 4500	70.2	72.3	72.8	72.8	73.2	73.5	73.8	73.9	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 4000	72.3	74.3	74.8	74.8	75.3	75.6	75.8	75.9	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 3500	73.2	75.5	76.0	76.0	76.5	76.8	77.0	77.1	77.1	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 3000	74.4	76.7	77.3	77.3	77.7	78.1	78.3	78.4	78.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 2500	75.3	77.5	78.4	78.4	78.9	79.5	79.7	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 2000	76.5	78.7	79.9	79.9	80.5	81.1	81.4	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 1800	76.5	78.7	79.9	79.9	80.5	81.1	81.4	81.5	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 1500	77.3	79.7	81.1	81.1	81.8	82.4	82.7	82.8	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 1200	78.5	80.9	82.7	82.8	83.7	84.2	84.6	84.7	84.7	85.1	85.1	85.1	85.1	85.2	85.2	85.2
GE 1000	79.1	81.5	83.4	84.2	85.1	85.7	86.1	86.2	86.2	86.6	86.6	86.6	86.6	86.7	86.7	86.7
GE 900	79.6	81.9	84.0	84.8	85.8	86.6	87.1	87.2	87.2	87.5	87.5	87.5	87.5	87.6	87.6	87.6
GE 800	79.8	82.3	84.4	85.3	86.5	87.2	87.7	87.8	87.8	88.2	88.2	88.2	88.2	88.3	88.3	88.3
GE 700	80.0	82.5	84.7	85.6	86.8	88.1	88.6	88.7	88.7	89.0	89.0	89.0	89.0	89.1	89.1	89.1
GE 600	80.4	83.2	85.6	86.7	88.0	89.2	89.9	90.0	90.0	90.[illegible]	90.3	90.3	90.3	90.4	90.4	90.4
GE 500	80.5	83.3	85.9	87.0	88.9	90.5	91.6	91.9	91.9	92.3	92.3	92.3	92.3	92.4	92.4	92.4
GE 400	80.6	83.7	86.6	87.8	90.0	91.9	93.2	93.9	94.0	94.5	94.5	94.5	94.8	95.1	95.1	95.1
GE 300	80.8	83.8	86.7	88.2	90.5	92.5	93.8	95.2	95.3	96.0	96.1	96.1	96.6	96.8	96.8	97.0
GE 200	80.8	83.8	86.7	88.2	90.8	92.7	94.0	95.7	96.0	97.0	97.1	97.1	97.6	98.0	98.2	98.7
GE 100	80.8	83.8	86.7	88.2	90.8	92.7	94.0	95.7	96.0	97.0	97.2	97.2	97.8	98.2	98.5	99.4
GE 000	80.8	83.8	86.7	88.2	90.8	92.7	94.0	95.7	96.0	97.0	97.2	97.2	97.8	98.2	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.0	49.4	50.9	51.5	51.5	51.9	52.0	52.0	52.0	52.3	52.4	52.4	52.4	52.4	52.7	52.8
GE 20000	51.1	54.4	56.0	56.7	56.7	57.2	57.3	57.3	57.3	57.5	57.7	57.7	57.7	57.7	58.2	58.3
GE 18000	51.2	54.5	56.1	56.8	56.8	57.3	57.4	57.4	57.4	57.6	57.8	57.8	57.8	57.8	58.3	58.4
GE 16000	51.2	54.5	56.1	56.8	56.8	57.3	57.4	57.4	57.4	57.6	57.8	57.8	57.8	57.8	58.3	58.4
GE 14000	51.4	54.7	56.3	57.1	57.1	57.6	57.7	57.7	57.7	58.0	58.2	58.2	58.2	58.2	58.6	58.7
GE 12000	52.3	55.8	57.4	58.2	58.2	58.7	58.8	58.8	58.8	59.0	59.2	59.2	59.2	59.2	59.7	59.8
GE 10000	55.3	59.1	60.8	61.6	61.6	62.2	62.3	62.3	62.3	62.5	62.7	62.7	62.7	62.7	63.1	63.2
GE 9000	55.4	59.2	61.1	61.9	61.9	62.5	62.6	62.6	62.6	62.8	63.0	63.0	63.0	63.0	63.4	63.5
GE 8000	59.9	64.1	65.9	67.0	67.0	67.5	67.6	67.6	67.6	67.8	68.1	68.1	68.1	68.1	68.5	68.6
GE 7000	60.5	64.8	66.7	67.7	67.7	68.3	68.4	68.4	68.4	68.6	68.8	68.8	68.8	68.8	69.2	69.4
GE 6000	61.3	65.6	67.4	68.5	68.5	69.0	69.2	69.2	69.2	69.5	69.7	69.7	69.7	69.7	70.1	70.2
GE 5000	63.9	68.2	70.0	71.3	71.3	71.8	72.0	72.0	72.0	72.3	72.6	72.6	72.6	72.6	73.0	73.1
4500	64.0	68.3	70.2	71.5	71.5	72.0	72.3	72.3	72.3	72.5	72.8	72.8	72.8	72.8	73.2	73.3
GE 4000	66.1	71.1	73.1	74.5	74.5	75.2	75.4	75.4	75.4	75.6	75.9	75.9	75.9	75.9	76.3	76.5
GE 3500	66.7	71.6	73.9	75.3	75.3	75.9	76.1	76.1	76.1	76.3	76.7	76.7	76.7	76.7	77.1	77.2
GE 3000	68.7	74.0	76.5	77.8	78.0	78.7	78.9	78.9	78.9	79.1	79.5	79.5	79.5	79.5	79.9	80.0
GE 2500	69.7	75.4	78.0	79.4	79.5	80.2	80.4	80.4	80.4	80.6	81.0	81.0	81.0	81.0	81.4	81.5
GE 2000	70.6	76.5	79.1	80.6	80.9	81.6	82.0	82.0	82.0	82.4	82.7	82.7	82.7	82.7	83.1	83.2
GE 1800	70.8	76.6	79.2	80.8	81.0	81.7	82.2	82.2	82.2	82.5	82.8	82.8	82.8	82.8	83.2	83.3
GE 1500	71.3	77.1	80.0	81.9	82.3	83.0	83.5	83.7	83.7	84.0	84.3	84.3	84.3	84.3	84.7	84.8
GE 1200	72.7	78.5	81.4	83.3	83.8	84.5	85.2	85.3	85.4	85.7	86.0	86.0	86.1	86.1	86.6	86.7
GE 1000	73.1	79.0	81.9	84.4	84.9	85.7	86.3	86.5	86.6	86.9	87.2	87.2	87.3	87.3	87.7	87.8
GE 900	73.1	79.1	82.0	84.6	85.2	85.9	86.6	86.7	86.8	87.2	87.5	87.5	87.6	87.6	88.1	88.2
GE 800	73.2	79.7	82.8	85.6	86.2	87.0	87.6	87.7	87.8	88.3	88.6	88.6	88.7	88.7	89.1	89.2
GE 700	73.2	79.8	83.0	85.8	86.6	87.5	88.2	88.5	88.6	89.0	89.4	89.4	89.5	89.5	89.9	90.0
GE 600	73.5	80.1	83.3	86.2	87.1	88.2	89.2	89.6	89.7	90.1	90.4	90.4	90.9	90.9	91.3	91.4
GE 500	73.5	80.2	83.4	86.7	87.7	89.1	90.4	90.9	91.1	91.5	91.8	91.8	92.3	92.3	92.7	92.8
GE 400	73.5	80.3	83.7	86.9	88.0	89.6	91.1	91.9	92.2	92.7	93.1	93.1	93.5	93.5	94.0	94.2
GE 300	73.5	80.3	83.7	86.9	88.0	89.6	91.6	93.2	93.9	94.9	95.5	95.6	96.0	96.0	96.7	97.3
GE 200	73.5	80.3	83.7	86.9	88.0	89.6	91.7	93.4	94.1	95.7	96.2	96.3	97.1	97.1	97.8	98.6
GE 100	73.5	80.3	83.7	86.9	88.0	89.6	91.7	93.4	94.1	95.7	96.3	96.5	97.2	97.2	98.3	99.8
GE 000	73.5	80.3	83.7	86.9	88.0	89.6	91.7	93.4	94.1	95.7	96.3	96.5	97.2	97.2	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.1	50.1	50.6	50.9	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 20000	57.0	58.6	59.2	59.6	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 18000	57.5	59.1	59.8	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 16000	57.5	59.1	59.8	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 14000	57.8	59.6	60.2	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 12000	58.5	60.3	61.1	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 10000	60.1	62.2	63.1	63.4	63.4	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 9000	60.2	62.3	63.2	63.5	63.5	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 8000	62.7	65.1	66.1	66.5	66.5	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 7000	64.3	67.2	68.6	68.9	68.9	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 6000	64.6	67.5	68.9	69.2	69.2	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
GE 5000	66.8	69.8	71.7	72.0	72.0	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 4500	66.9	70.2	72.3	72.6	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 4000	68.7	72.6	74.8	75.4	75.4	75.5	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 3500	70.1	74.1	76.5	77.0	77.0	77.1	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 3000	72.9	77.1	79.5	80.0	80.1	80.2	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 2500	74.1	78.3	80.8	81.3	81.4	81.5	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 2000	74.9	79.5	82.0	82.9	83.0	83.1	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 1800	75.2	79.7	82.3	83.1	83.2	83.3	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 1500	75.5	80.3	82.9	84.0	84.3	84.4	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 1200	77.0	82.0	84.9	86.3	86.7	87.0	87.6	87.7	88.0	88.2	88.2	88.2	88.2	88.2	88.3	88.3
GE 1000	77.1	82.2	85.2	86.9	87.3	87.8	88.7	88.8	89.0	89.2	89.2	89.2	89.2	89.2	89.4	89.4
GE 900	77.2	82.4	85.4	87.3	88.0	88.5	89.4	89.5	89.7	89.9	89.9	89.9	89.9	89.9	90.0	90.0
GE 800	77.3	82.6	85.8	87.8	88.6	89.2	90.5	90.6	90.9	91.1	91.1	91.1	91.1	91.1	91.2	91.2
GE 700	77.3	82.6	85.8	88.0	89.2	90.1	91.4	91.5	91.7	91.9	91.9	91.9	91.9	91.9	92.0	92.0
GE 600	77.3	82.6	86.1	88.5	90.0	91.0	92.5	92.6	92.8	93.2	93.2	93.2	93.2	93.2	93.3	93.3
GE 500	77.3	82.6	86.2	88.6	90.1	91.7	93.7	94.0	94.2	94.8	94.8	94.8	94.8	94.8	94.9	94.9
GE 400	77.3	82.6	86.2	89.0	90.6	92.6	94.9	95.6	95.8	96.5	96.6	96.6	96.6	96.6	96.7	96.7
GE 300	77.5	82.9	86.6	89.4	91.0	93.0	95.6	96.7	97.0	98.3	98.4	98.4	98.6	98.8	98.9	98.9
GE 200	77.5	82.9	86.6	89.4	91.0	93.2	95.9	97.0	97.4	98.7	99.0	99.0	99.4	99.6	99.9	99.9
GE 100	77.5	82.9	86.6	89.4	91.0	93.2	95.9	97.0	97.4	98.7	99.0	99.0	99.4	99.6	100.0	100.0
GE 000	77.5	82.9	86.6	89.4	91.0	93.2	95.9	97.0	97.4	98.7	99.0	99.0	99.4	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.7	50.1	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 20000	57.4	58.5	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 18000	58.0	59.0	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 16000	58.0	59.0	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 14000	58.4	59.5	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 12000	60.0	61.1	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 10000	61.6	63.3	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	642	64.2	64.2	64.2
GE 9000	61.6	63.3	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 8000	65.1	67.0	67.8	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 7000	67.6	69.9	70.9	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 6000	68.1	70.3	71.4	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 5000	69.5	71.8	73.0	73.1	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 4500	70.0	72.4	73.7	73.8	74.0	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
GE 4000	72.4	75.1	76.7	76.9	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 3500	74.4	77.2	78.8	79.1	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 3000	77.6	80.8	82.5	82.8	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 2500	78.4	81.5	83.3	83.8	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2000	79.1	82.4	84.5	85.2	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 1800	79.4	82.6	84.7	85.4	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1500	79.9	83.3	85.7	86.5	87.5	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 1200	80.4	84.6	87.5	88.4	89.5	89.6	89.7	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0	90.3
GE 1000	80.5	84.7	88.1	89.1	90.2	90.3	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.9	90.9	91.2
GE 900	80.6	84.8	88.4	89.7	90.8	90.9	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.9
GE 800	80.6	84.9	88.6	90.3	91.5	91.8	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.7	92.7	93.0
GE 700	80.6	85.1	88.9	90.6	92.2	92.5	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.7
GE 600	80.8	85.3	89.1	91.0	92.6	93.0	93.5	94.0	94.0	94.2	94.2	94.2	94.2	94.3	94.3	94.6
GE 500	80.8	85.4	89.4	91.2	93.0	94.0	95.4	96.0	96.0	96.3	96.3	96.3	96.3	96.5	96.5	96.8
GE 400	80.8	85.4	89.6	91.6	93.7	94.7	96.2	97.2	97.2	97.7	97.7	97.7	97.7	97.8	97.8	98.2
GE 300	80.8	85.4	89.6	91.6	93.8	94.8	96.5	97.6	97.6	98.4	98.4	98.4	98.6	98.7	98.7	99.0
GE 200	80.8	85.4	89.7	91.8	94.0	95.1	96.8	98.0	98.0	98.9	99.1	99.1	99.4	99.6	99.6	99.9
GE 100	80.8	85.4	89.7	91.8	94.0	95.1	96.8	98.0	98.0	98.9	99.1	99.1	99.5	99.7	99.7	100.0
GE 000	80.8	85.4	89.7	91.8	94.0	95.1	96.8	98.0	98.0	98.9	99.1	99.1	99.5	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.2	53.9	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 20000	60.6	61.5	61.7	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 18000	61.3	62.2	62.4	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 16000	61.3	62.2	62.4	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 14000	61.5	62.4	62.6	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 12000	62.3	63.3	63.5	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 10000	63.9	65.3	65.6	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 9000	63.9	65.3	65.6	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 8000	67.4	70.0	70.6	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 7000	69.8	72.7	73.3	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 6000	70.1	73.0	73.7	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 5000	71.9	75.1	76.0	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 4500	72.5	75.6	76.6	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 4000	75.5	78.7	79.8	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 3500	77.1	80.4	81.6	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 3000	79.0	82.8	84.3	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 2500	79.9	84.0	85.7	86.2	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 2000	80.8	84.8	86.9	88.0	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1800	80.8	84.8	87.1	88.3	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 1500	81.1	85.2	87.6	88.9	89.4	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1200	81.3	85.9	88.5	90.0	90.6	90.9	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.3	91.5
GE 1000	81.4	86.0	88.6	90.1	91.0	91.2	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.6	91.8
GE 900	81.5	86.1	88.7	90.5	91.4	91.6	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	92.0	92.3
GE 800	81.5	86.1	88.9	90.8	91.8	92.0	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.6	92.8
GE 700	81.7	86.5	89.4	91.4	92.9	93.2	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.8	94.0
GE 600	81.7	86.5	89.4	91.4	93.0	93.8	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.3	94.5
GE 500	81.7	86.5	89.4	91.5	93.2	94.7	95.2	95.6	95.7	95.8	95.9	95.9	95.9	95.9	96.2	96.5
GE 400	81.7	86.5	89.5	91.6	93.9	95.6	96.1	96.9	97.1	97.4	97.5	97.5	97.5	97.5	97.8	98.1
GE 300	81.7	86.5	89.5	91.6	94.0	95.8	96.5	97.3	97.5	98.0	98.3	98.3	98.4	98.5	98.8	99.0
GE 200	81.7	86.5	89.5	91.6	94.0	95.9	96.6	97.4	97.6	98.4	98.9	98.9	99.0	99.2	99.7	99.9
GE 100	81.7	86.5	89.5	91.6	94.0	95.9	96.6	97.4	97.6	98.4	98.9	98.9	99.0	99.2	99.7	99.9
GE 000	81.7	86.5	89.5	91.6	94.0	95.9	96.6	97.4	97.6	98.4	98.9	98.9	99.0	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.5	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 20000	61.6	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 18000	61.7	62.6	62.8	62.8	62.8	62.8	2.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 16000	61.7	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 14000	62.4	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 12000	63.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 10000	64.6	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 9000	65.1	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 8000	69.0	70.4	70.6	70.9	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 7000	70.4	71.9	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 6000	71.0	72.5	72.7	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 5000	72.8	74.8	75.3	75.6	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 4500	73.2	75.3	75.8	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 4000	75.3	77.5	78.4	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 3500	75.9	78.3	79.1	79.5	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 3000	78.2	80.5	81.4	81.8	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 2500	78.8	81.3	82.2	82.6	83.2	83.2	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 2000	79.8	82.5	83.7	84.7	85.4	85.4	85.5	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 1800	80.0	82.7	83.9	84.9	85.7	85.7	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 1500	80.2	82.9	84.2	85.5	86.2	86.3	86.5	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 1200	80.6	83.5	84.9	86.2	87.2	87.4	87.5	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.1
GE 1000	80.9	83.8	85.3	87.0	88.2	88.8	88.9	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5
GE 900	81.1	84.0	85.5	87.2	88.5	89.1	89.2	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8
GE 800	81.3	84.8	86.6	88.3	89.7	90.6	90.8	91.2	91.2	91.3	91.3	91.3	91.4	91.4	91.4	91.4
GE 700	81.5	85.1	87.1	88.8	90.3	91.3	91.4	91.8	91.8	91.9	91.9	91.9	92.0	9[illegible]	92.0	92.0
GE 600	81.5	85.1	87.2	89.0	90.6	92.0	92.4	92.8	92.8	92.9	92.9	92.9	93.0	93.0	93.3	93.3
GE 500	81.5	85.1	87.2	89.2	90.9	92.5	93.1	93.7	93.7	93.9	93.9	93.9	94.0	94.0	94.3	94.3
GE 400	81.5	85.2	87.5	89.7	91.4	93.4	94.1	95.2	95.2	95.6	95.7	95.7	95.8	95.8	96.2	96.2
GE 300	81.5	85.4	88.0	90.2	92.4	94.5	95.3	96.9	96.9	97.7	97.8	97.8	98.0	98.0	98.4	98.4
GE 200	81.5	85.4	88.0	90.3	92.5	94.6	95.4	97.1	97.1	98.0	98.2	98.2	98.4	98.5	98.9	99.1
GE 100	81.5	85.4	88.0	90.3	92.5	94.6	95.4	97.1	97.1	98.0	98.3	98.3	98.5	98.7	99.2	99.7
GE 000	81.5	85.4	88.0	90.3	92.5	94.6	95.4	97.1	97.1	98.0	98.3	98.3	98.5	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	57.4	57.8	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 20000	61.3	61.8	62.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 18000	61.4	61.9	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	61.6	62.2	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 14000	62.2	62.7	63.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 12000	63.3	64.0	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 10000	65.1	65.7	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 9000	65.4	66.0	67.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 8000	68.6	69.8	70.8	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 7000	70.3	71.5	72.6	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 6000	70.4	71.6	72.7	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 5000	72.6	73.8	74.8	75.2	75.3	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 4500	73.2	74.5	75.6	75.9	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 4000	75.6	77.0	78.2	78.5	78.8	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 3500	75.9	77.3	78.7	79.1	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 3000	77.1	79.0	80.5	81.0	81.5	81.5	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 2500	78.0	79.9	81.5	81.9	82.6	82.6	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 2000	79.2	81.5	83.3	84.0	84.8	84.8	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 1800	79.4	81.7	83.5	84.2	85.1	85.1	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 1500	80.0	82.5	84.5	85.3	86.6	86.7	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1200	80.6	83.1	85.5	86.5	87.8	88.1	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 1000	81.3	84.4	86.8	87.7	89.1	89.4	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 900	81.4	84.6	87.0	88.0	89.4	89.6	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 800	81.9	85.3	87.6	88.7	90.2	90.5	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 700	82.3	85.6	88.0	89.1	90.6	91.0	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 600	82.3	85.7	88.3	89.6	91.2	91.6	92.0	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 500	82.4	85.8	88.5	89.8	91.7	92.4	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 400	82.4	85.8	88.5	89.9	92.0	92.8	94.4	94.7	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 300	82.5	85.9	88.9	90.5	93.0	94.0	95.6	96.5	96.5	97.1	97.1	97.1	97.3	97.3	97.4	97.4
GE 200	82.5	85.9	88.9	90.5	93.0	94.0	95.6	96.8	96.8	97.5	97.7	97.7	98.3	98.3	98.5	98.6
GE 100	82.5	85.9	88.9	90.5	93.0	94.0	95.6	96.8	96.8	97.5	97.7	97.7	98.4	98.4	98.9	99.4
GE 000	82.5	85.9	88.9	90.5	93.0	94.0	95.6	96.8	96.8	97.6	97.8	97.8	98.5	98.5	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.0	54.0	54.5	54.7	54.8	55.0	55.0	55.0	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 20000	58.7	60.1	60.7	60.9	61.0	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.4	61.4
GE 18000	59.0	60.4	61.0	61.2	61.3	61.5	61.5	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.7
GE 16000	59.1	60.4	61.0	61.3	61.4	61.5	61.6	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7
GE 14000	59.5	60.9	61.5	61.7	61.8	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.2	62.2
GE 12000	60.4	61.8	62.5	62.8	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.2
GE 10000	62.4	64.0	64.7	65.0	65.1	65.3	65.3	65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.5	65.5
GE 9000	62.6	64.2	64.9	65.2	65.3	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.7	65.7
GE 8000	65.9	68.0	68.8	69.2	69.3	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.7	69.7
GE 7000	67.6	69.8	70.7	71.1	71.3	71.4	71.5	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.6
GE 6000	68.0	70.2	71.1	71.5	71.6	71.8	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0
GE 5000	69.8	72.3	73.3	73.8	74.0	74.1	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.4	74.4
GE 4500	70.2	72.7	73.9	74.3	74.5	74.7	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9
GE 4000	72.4	75.2	76.5	77.0	77.2	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.7	77.7
GE 3500	73.5	76.3	77.6	78.2	78.4	78.6	78.8	78.8	78.8	78.8	78.9	78.9	78.9	78.9	78.9	79.0
GE 3000	75.4	78.6	80.0	80.6	81.0	81.2	81.3	81.3	81.3	81.4	81.5	81.5	81.5	81.5	81.5	81.5
GE 2500	76.3	79.5	81.1	81.7	82.2	82.5	82.6	82.6	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.9
GE 2000	77.3	80.7	82.6	83.4	84.1	84.3	84.5	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.8	84.8
GE 1800	77.4	80.8	82.7	83.6	84.3	84.5	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	85.0	85.0
GE 1500	78.0	81.5	83.5	84.6	85.4	85.7	85.9	86.0	86.0	86.1	86.2	86.2	86.2	86.2	86.2	86.3
GE 1200	78.9	82.6	84.9	86.1	87.0	87.4	87.6	87.8	87.8	87.9	88.0	88.0	88.0	88.1	88.1	88.2
GE 1000	79.2	83.0	85.4	86.9	87.9	88.4	88.8	88.9	89.0	89.1	89.2	89.2	89.2	89.2	89.3	89.4
GE 900	79.4	83.2	85.7	87.3	88.3	88.8	89.2	89.4	89.4	89.6	89.6	89.6	89.7	89.7	89.8	89.9
GE 800	79.5	83.6	86.2	87.9	89.1	89.7	90.2	90.3	90.4	90.5	90.6	90.6	90.6	90.6	90.7	90.8
GE 700	79.8	83.9	86.6	88.4	89.7	90.5	90.9	91.1	91.2	91.4	91.4	91.4	91.5	91.5	91.6	91.[illegible]
GE 600	79.9	84.1	86.9	88.8	90.3	91.2	91.9	92.1	92.1	92.4	92.4	92.4	92.5	92.5	92.6	92.7
GE 500	79.9	84.2	87.1	89.0	90.8	92.2	93.2	93.6	93.7	94.0	94.0	94.0	94.1	94.1	94.3	94.4
GE 400	80.0	84.3	87.3	89.4	91.5	93.1	94.4	95.1	95.2	95.7	95.8	95.8	95.9	95.9	96.1	96.2
GE 300	80.1	84.4	87.5	89.7	91.9	93.6	95.1	96.2	96.4	97.2	97.4	97.4	97.6	97.7	97.9	98.1
GE 200	80.1	84.4	87.6	89.8	92.0	93.8	95.2	96.5	96.7	97.7	98.0	98.1	98.4	98.6	98.9	99.2
GE 100	80.1	84.4	87.6	89.8	92.0	93.8	95.2	96.5	96.7	97.8	98.1	98.1	98.5	98.7	99.2	99.7
GE 000	80.1	84.4	87.6	89.8	92.0	93.8	95.2	96.5	96.7	97.8	98.1	98.1	98.5	98.7	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.6	55.4	56.4	56.9	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 20000	60.2	61.1	62.1	62.9	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 18000	60.2	61.1	62.1	62.9	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	60.2	61.1	62.1	62.9	63.1	63.1	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 14000	60.4	61.3	62.3	63.1	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 12000	61.1	62.0	63.0	63.8	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 10000	64.8	65.8	66.8	67.6	67.8	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 9000	64.9	65.9	66.9	67.7	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 8000	69.8	71.0	72.1	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 7000	71.1	72.3	73.6	74.4	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 6000	71.3	72.6	73.8	74.7	74.9	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 5000	72.1	73.3	74.6	75.7	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 4500	72.9	74.1	75.3	76.4	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 4000	76.3	77.7	79.1	80.2	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 3500	77.7	79.0	80.6	81.7	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 3000	78.4	80.2	81.8	82.9	83.4	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 2500	79.3	81.2	82.9	84.1	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 2000	80.4	82.4	84.3	85.6	86.4	86.4	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 1800	80.6	82.6	84.4	85.7	86.6	86.6	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1500	81.0	83.2	85.4	86.7	87.8	87.8	88.2	8.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 1200	81.7	84.0	86.7	88.0	89.4	89.4	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1000	81.8	84.1	86.9	88.6	90.2	90.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 900	82.0	84.4	87.2	89.1	90.9	91.2	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 800	82.2	84.8	87.7	89.7	91.8	92.1	92.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 700	82.4	85.0	88.0	90.1	92.2	92.6	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 600	82.4	85.0	88.1	90.3	92.7	93.0	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 500	82.7	85.2	88.4	91.0	94.0	94.3	95.0	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 400	82.9	85.4	88.7	91.2	95.0	95.3	96.0	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 300	82.9	85.4	88.8	91.4	95.3	95.9	96.8	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 200	82.9	85.4	88.8	91.4	95.3	95.9	96.8	97.7	97[illegible]	98.1	98.2	98.3	98.4	98.4	98.4	98.4
GE 100	82.9	85.4	88.8	91.4	95.3	95.9	96.8	97.7	97.8	98.3	98.6	98.7	98.9	99.0	99.4	99.7
GE 000	82.9	85.4	88.8	91.4	95.3	95.9	96.8	97.7	97.8	98.3	98.6	98.7	98.9	99.0	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATIONNUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.3	56.6	57.9	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 20000	58.3	60.6	61.9	62.8	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 18000	58.3	60.6	61.9	62.8	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	58.3	60.6	61.9	62.8	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 14000	58.6	60.8	62.1	63.0	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 12000	59.0	61.2	62.6	63.4	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 10000	62.7	64.9	66.4	67.3	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 9000	63.1	65.3	66.9	67.8	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 8000	68.6	71.2	73.0	73.9	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 7000	68.9	71.6	73.3	74.2	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 6000	69.0	71.7	73.4	74.4	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 5000	70.1	72.9	74.9	75.9	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 4500	70.4	73.2	75.2	76.2	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 4000	73.0	76.2	78.3	79.3	79.7	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 3500	74.2	77.4	79.6	80.6	80.9	81.0	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 3000	75.8	79.2	82.2	83.3	83.8	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 2500	76.7	80.3	83.4	84.6	85.0	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 2000	77.2	81.1	84.4	85.6	86.1	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 1800	77.6	81.4	84.8	86.0	86.6	86.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1500	77.7	81.9	85.4	86.9	87.6	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 1200	78.9	83.2	87.2	88.9	89.7	89.8	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1000	79.2	83.6	87.7	89.3	90.3	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 900	79.3	83.8	87.9	89.6	90.6	91.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 800	79.8	84.2	88.4	90.1	91.1	92.0	92.4	92.4	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 700	80.1	84.7	89.0	90.8	91.8	92.8	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 600	80.2	84.8	89.1	91.1	92.2	93.2	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 500	80.2	84.9	89.3	92.2	93.6	94.7	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 400	80.2	84.9	89.6	92.4	94.3	95.4	96.1	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 300	80.2	84.9	89.6	92.4	94.6	95.7	96.6	96.9	96.9	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 200	80.2	84.9	89.6	92.6	94.7	95.9	96.8	97.3	97.3	97.9	98.2	98.2	98.2	98.2	98.2	98.2
GE 100	80.2	84.9	89.6	92.6	94.7	95.9	96.9	97.7	97.7	98.2	98.8	98.8	98.8	98.8	99.1	99.2
GE 000	80.2	84.9	89.6	92.6	94.7	95.9	96.9	97.7	97.7	98.2	99.0	99.0	99.0	99.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.9	51.3	52.9	55.3	56.1	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 20000	52.3	56.7	58.7	61.1	61.9	62.2	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 18000	52.3	56.7	58.7	61.1	61.9	62.2	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 16000	52.3	56.7	58.7	61.1	61.9	62.2	62.4	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7
GE 14000	52.6	56.9	58.9	61.3	62.1	62.4	62.7	62.8	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 12000	53.0	57.4	59.4	61.9	62.7	63.0	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 10000	55.7	60.2	62.3	64.8	65.6	65.9	66.1	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 9000	56.0	60.6	62.7	65.1	65.9	66.2	66.4	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 8000	61.6	66.9	69.4	72.1	72.9	73.2	73.4	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 7000	62.6	68.3	70.9	73.7	74.4	74.8	75.0	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 6000	62.7	68.4	71.0	73.8	74.6	74.9	75.1	75.2	75.2	75.3	75.3	75.3	.3	75.3	75.3	75.3
GE 5000	64.2	70.2	73.4	76.3	77.4	77.8	78.0	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 4500	64.8	70.8	74.0	76.9	78.0	78.3	78.6	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 4000	65.6	71.9	75.3	78.2	79.3	79.7	80.0	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 3500	66.0	72.4	75.9	78.8	79.9	80.2	80.6	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 3000	67.0	73.7	77.4	80.6	82.0	82.3	82.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	8.9	82.9
GE 2500	67.9	74.7	78.4	81.9	83.3	83.8	84.1	84.2	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 2000	69.4	76.3	80.1	83.7	85.3	86.0	86.4	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 1800	69.8	76.7	80.4	84.1	85.8	86.4	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1500	70.2	77.2	81.2	85.1	86.8	87.6	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1200	70.7	77.7	81.9	86.0	87.9	88.7	89.1	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 1000	71.1	78.3	82.8	86.9	88.9	89.7	90.3	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 900	71.2	78.6	83.2	87.3	89.3	90.1	90.8	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 800	71.2	78.6	83.3	87.7	90.3	91.1	91.9	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 700	71.2	78.6	83.3	87.8	90.6	91.3	92.4	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 600	71.	78.9	83.7	88.6	91.3	92.2	93.3	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 500	71.6	79.0	84.0	89.2	92.1	93.2	94.4	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 400	71.6	79.0	84.0	89.3	92.6	93.7	95.1	95.4	95.4	95.9	95.9	95.9	95.9	95.9	96.0	96.0
GE 300	71.6	79.0	84.0	89.4	92.7	94.2	95.8	96.2	96.2	97.1	97.2	97.2	97.2	97.2	97.3	97.4
GE 200	71.6	79.0	84.0	89.4	92.7	94.2	96.2	96.7	96.7	97.8	98.0	98.1	98.3	98.3	98.8	99.1
GE 100	71.6	79.0	84.0	89.4	92.7	94.2	96.3	96.8	96.8	97.9	98.2	98.3	98.7	98.7	99.1	99.6
GE 000	71.6	79.0	84.0	89.4	92.7	94.2	96.3	96.8	96.8	97.9	98.2	98.3	98.7	98.7	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.3	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 20000	60.8	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 18000	60.8	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 16000	61.0	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 14000	61.2	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 12000	61.8	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 10000	64.3	67.0	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 9000	64.6	67.2	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 8000	69.1	72.4	73.8	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 7000	70.7	74.0	75.3	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 6000	70.8	74.1	75.4	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 5000	71.9	75.3	76.8	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 4500	72.7	76.1	77.6	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 4000	74.0	77.7	79.2	79.6	79.8	79.8	79.8	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 3500	74.7	78.3	79.9	80.2	80.4	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 3000	76.1	80.0	82.0	82.3	82.7	82.8	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 2500	76.8	80.7	82.9	83.3	83.7	83.8	83.8	84.0	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 2000	78.4	82.7	85.6	86.1	86.6	86.7	86.9	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 1800	78.6	82.8	85.7	86.2	86.7	86.8	87.0	87.2	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 1500	79.3	83.7	87.0	87.6	88.0	88.1	88.3	88.6	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1200	79.4	83.8	87.1	87.8	88.3	88.6	88.9	89.1	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 1000	79.9	84.2	87.8	88.4	89.7	89.9	90.2	90.4	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 900	80.1	84.4	88.3	89.1	90.4	90.7	91.0	91.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 800	80.1	84.6	88.6	89.6	91.2	91.4	91.8	92.0	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 700	80.1	84.6	88.6	89.8	91.8	92.0	92.6	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 600	80.3	84.8	88.8	90.0	92.3	92.6	93.1	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 500	80.3	84.9	89.1	90.6	93.2	93.7	94.7	95.4	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 400	80.4	85.0	89.2	90.7	93.6	94.1	95.4	96.2	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 300	80.4	85.1	89.3	90.9	93.8	94.8	96.7	97.4	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 200	80.4	85.1	89.3	90.9	93.8	94.8	96.8	97.8	98.3	99.1	99.1	99.1	99.3	99.3	99.7	99.7
GE 100	80.4	85.1	89.3	90.9	93.8	94.8	96.9	97.9	98.4	99.2	99.2	99.3	99.6	99.7	100.0	100.0
GE 000	80.4	85.1	89.3	90.9	93.8	94.8	96.9	97.9	98.4	99.2	99.2	99.3	99.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.7	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
GE 20000	61.4	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 18000	61.4	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 16000	61.4	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 14000	61.9	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 12000	62.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 10000	65.2	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 9000	65.2	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 8000	68.4	71.6	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 7000	69.4	72.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 6000	69.7	73.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 5000	71.2	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 4500	72.0	7.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4000	74.2	78.3	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 3500	75.3	79.8	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
GE 3000	77.3	82.1	83.9	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 2500	79.0	83.9	85.8	86.1	86.1	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 2000	80.6	85.9	88.1	88.6	88.7	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1800	80.7	86.0	88.2	88.7	88.8	88.9	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1500	82.0	87.6	89.8	90.4	90.7	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1200	83.3	89.0	91.3	92.0	92.2	92.3	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1000	83.8	89.6	92.1	93.1	93.4	93.7	93.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 900	83.8	89.8	92.4	93.6	93.9	94.1	94.2	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 800	83.8	89.8	92.4	93.7	94.2	94.4	94.6	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 700	84.1	90.2	92.9	94.1	94.7	94.9	95.0	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 600	84.2	90.3	93.0	94.3	94.9	95.3	95.7	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 500	84.4	90.6	93.2	94.7	95.3	96.2	96.6	97.1	97.3	97.3	97.3	97.3	97.	97.3	97.3	97.3
GE 400	84.6	90.7	93.4	95.1	95.9	96.8	97.1	97.9	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 300	84.6	90.7	93.4	95.2	96.0	97.0	97.6	98.6	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	84.6	90.7	93.4	95.2	96.0	97.0	97.6	98.6	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 100	84.6	90.7	93.4	95.2	96.0	97.0	97.6	98.6	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 000	84.6	90.7	93.4	95.2	96.0	97.0	97.6	98.6	99.3	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.1	53.2	54.0	54.0	54.1	54.1	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
GE 20000	58.7	61.9	63.7	63.8	63.9	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 18000	58.7	61.9	63.7	63.8	63.9	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 16000	58.7	61.9	63.7	63.8	63.9	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 14000	58.9	62.2	64.0	64.1	64.2	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 12000	59.7	63.1	64.9	65.0	65.1	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 10000	61.9	65.7	67.6	67.7	67.8	67.8	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 9000	62.3	66.1	68.0	68.1	68.2	68.2	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 8000	67.2	71.2	73.6	73.7	73.8	73.8	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 7000	68.4	72.6	74.9	75.0	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 6000	69.4	73.7	76.1	76.2	76.4	76.4	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 5000	71.4	76.2	78.7	79.0	79.2	79.2	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 4500	72.0	76.9	79.3	79.7	79.9	79.9	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 4000	74.4	79.6	82.2	82.8	83.0	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 3500	75.3	80.6	83.2	83.8	84.0	84.0	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 3000	77.6	83.4	86.7	87.4	87.9	87.9	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 2500	78.8	84.8	88.1	88.9	89.3	89.3	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 2000	80.1	86.3	89.9	90.8	91.4	91.4	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1800	80.1	86.4	90.1	91.0	91.7	91.7	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 1500	81.0	87.7	91.4	92.4	93.1	93.2	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 1200	82.0	88.8	92.9	94.0	94.8	94.9	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1000	82.0	88.9	93.1	94.3	95.2	95.3	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 900	82.1	89.0	93.2	94.4	95.3	95.4	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 800	82.1	89.0	93.2	94.6	95.4	95.6	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 700	82.1	89.3	93.8	95.4	96.3	96.4	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 600	82.1	89.3	93.9	95.6	96.4	96.6	97.2	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 500	82.1	89.3	93.9	95.6	96.7	96.9	97.7	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3
GE 400	82.1	89.3	93.9	95.7	96.9	97.1	98.0	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
GE 300	82.1	89.3	93.9	96.0	97.3	97.6	98.6	99.3	99.3	99.6	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	82.1	89.3	93.9	96.0	97.3	97.6	98.6	99.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	82.1	89.3	93.9	96.0	97.3	97.6	98.6	99.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	82.1	89.3	93.9	96.0	97.3	97.6	98.6	99.3	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.6	54.1	54.7	54.8	54.8	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 20000	58.1	60.6	61.3	61.7	61.7	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 18000	58.1	60.6	61.3	61.7	61.7	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 16000	58.1	60.6	61.3	61.7	61.7	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 14000	58.7	61.1	61.9	62.2	62.2	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 12000	59.6	62.0	62.8	63.1	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 10000	61.2	64.4	65.4	66.0	66.2	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
GE 9000	61.8	65.0	66.0	66.6	66.8	66.9	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 8000	67.2	70.6	72.1	72.8	73.2	73.6	73.8	73.8	7.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 7000	67.9	71.3	73.1	73.8	74.2	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 6000	68.3	71.8	73.7	74.3	74.8	75.1	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 5000	70.9	74.8	76.7	77.3	77.8	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 4500	71.3	75.2	77.1	77.8	78.2	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 4000	74.3	79.1	81.1	82.0	82.4	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 3500	74.9	79.8	82.0	83.0	83.4	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 3000	77.6	82.7	85.1	86.2	86.9	87.4	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 2500	78.4	83.7	86.1	87.2	87.9	88.4	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2000	78.9	84.3	86.9	88.2	89.1	89.7	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1800	79.0	84.4	87.0	88.3	89.3	89.9	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1500	79.3	85.0	87.8	89.3	90.6	91.1	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1200	79.8	85.8	88.7	90.4	91.8	92.4	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1000	79.8	86.0	88.9	90.8	92.2	92.9	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 900	79.9	86.1	89.0	91.1	92.6	93.2	9.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 800	79.9	86.1	89.0	91.4	93.2	93.9	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 700	79.9	86.2	89.1	91.7	93.4	94.1	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 600	79.9	86.2	89.1	91.8	93.7	94.3	95.2	95.4	95.4	95.4	95.6	95.6	95.6	95.6	95.6	95.6
GE 500	79.9	86.3	89.2	92.1	94.4	95.1	96.0	96.2	96.2	96.2	96.3	96.3	96.3	96.3	96.3	96.3
GE 400	79.9	86.3	89.2	92.1	94.4	95.3	96.7	97.0	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 300	79.9	86.6	89.4	92.4	94.9	95.8	97.4	98.0	98.1	98.3	98.7	98.7	98.7	98.7	98.7	98.7
GE 200	79.9	86.6	89.4	92.4	94.9	95.9	97.7	98.3	98.4	98.8	99.1	99.1	99.3	99.3	99.4	99.4
GE 100	79.9	86.6	89.4	92.4	94.9	95.9	97.7	98.3	98.4	98.9	99.3	99.3	99.7	99.7	99.8	100.0
GE 000	79.9	86.6	89.4	92.4	94.9	95.9	97.7	98.3	98.4	98.9	99.3	99.3	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.0	56.2	56.4	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 20000	59.6	61.1	61.3	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 18000	59.6	61.1	61.3	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 16000	59.6	61.1	61.3	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 14000	59.9	61.4	61.7	62.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 12000	60.7	62.2	62.4	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 10000	62.9	64.4	64.7	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 9000	63.7	65.2	65.4	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 8000	69.4	71.6	71.9	72.4	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 7000	70.9	73.0	73.3	73.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 6000	70.9	73.0	73.3	73.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 5000	72.9	75.1	75.6	76.1	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4500	72.9	75.1	75.6	76.1	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4000	76.7	79.3	79.8	80.3	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 3500	77.7	80.4	81.0	81.6	82.1	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 3000	80.3	83.6	84.4	85.1	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 2500	80.9	84.2	85.1	85.8	86.4	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 2000	81.2	84.9	85.9	86.9	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 1800	81.2	84.9	85.9	86.9	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 1500	81.4	85.3	86.7	87.8	88.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 1200	81.8	86.1	87.6	88.8	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 1000	82.2	86.7	88.3	89.6	91.0	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 900	82.6	87.0	88.7	89.9	91.6	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 800	83.2	88.1	89.8	91.0	92.8	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 700	83.6	88.4	90.1	91.3	93.4	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 600	83.7	88.6	90.2	91.6	94.2	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 500	83.7	88.6	90.4	91.8	95.1	96.1	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 400	83.7	88.6	90.6	92.1	95.7	96.9	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 300	83.7	88.6	90.6	92.1	95.7	96.9	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 200	83.7	88.6	90.6	92.1	96.0	97.2	98.2	98.4	98.7	98.9	98.9	98.9	98.9	98.9	98.9	99.0
GE 100	83.7	88.6	90.6	92.1	96.1	97.3	98.3	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.4	100.0
GE 000	83.7	88.6	90.6	92.1	96.1	97.3	98.3	98.6	98.8	99.0	99.1	99.1	99.1	99.1	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: APR HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.8	54.6	55.3	55.9	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 20000	58.7	61.0	62.0	62.6	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 18000	58.7	61.0	62.0	62.6	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 16000	58.7	61.1	62.0	62.7	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 14000	59.0	61.4	62.3	63.0	63.2	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 12000	59.7	62.0	63.0	63.6	63.9	63.9	64.0	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 10000	62.3	65.0	66.2	66.8	67.1	67.1	67.2	67.2	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 9000	62.7	65.4	66.5	67.2	67.4	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 8000	67.7	70.8	72.3	73.0	73.3	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 7000	68.7	72.0	73.5	74.3	74.6	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 6000	69.0	72.3	73.9	74.7	75.0	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 5000	70.6	74.1	75.8	76.7	77.1	77.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 4500	71.1	74.6	76.4	77.2	77.6	77.7	77.8	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 4000	73.6	77.5	79.4	80.3	80.8	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 3500	74.5	78.5	80.5	81.4	81.8	82.0	82.1	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 3000	76.3	80.6	82.9	84.0	84.6	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 2500	77.2	81.7	84.1	85.2	85.8	86.0	86.2	86.3	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 2000	78.3	83.0	85.7	86.9	87.7	87.9	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 1800	78.	83.2	85.8	87.1	87.9	88.1	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1500	79.0	83.9	86.8	88.3	89.2	89.4	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1200	79.7	84.8	87.9	89.5	90.5	90.8	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 1000	80.0	85.2	88.4	90.1	91.4	91.9	92.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 900	80.1	85.4	88.8	90.5	91.8	92.3	92.7	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 800	80.3	85.6	89.1	91.0	92.5	93.0	93.5	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 700	80.4	85.9	89.3	91.4	93.0	93.5	94.1	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 600	80.6	86.0	89.5	91.7	93.5	94.0	94.7	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 500	80.6	86.1	89.7	92.1	94.3	95.0	95.8	96.2	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 400	80.7	86.2	89.8	92.3	94.8	95.6	96.5	97.0	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 300	80.7	86.2	89.9	92.5	95.0	96.0	97.1	97.7	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.4
GE 200	80.7	86.2	89.9	92.5	95.1	96.1	97.3	98.0	98.3	98.8	98.9	99.0	99.1	99.1	99.2	99.2
GE 100	80.7	86.2	89.9	92.5	95.1	96.1	97.4	98.1	98.3	98.9	99.1	99.2	99.3	99.4	99.6	99.8
GE 000	80.7	86.2	89.9	92.5	95.1	96.1	97.4	98.1	98.3	98.9	99.2	99.2	99.3	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.2	55.3	56.6	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
GE 20000	57.2	61.9	63.8	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
GE 18000	57.4	62.2	64.0	64.6	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 16000	57.4	62.2	64.0	64.6	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 14000	57.5	62.3	64.1	64.7	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 12000	58.2	62.9	64.7	65.4	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 10000	61.0	65.9	67.7	68.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 9000	61.2	66.1	68.0	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 8000	66.8	72.0	74.5	75.2	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 7000	68.7	74.0	76.5	77.1	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 6000	69.6	74.8	77.3	78.0	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 5000	70.8	76.2	78.8	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 4500	70.9	76.3	78.9	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 4000	73.7	79.6	82.6	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3500	74.9	81.0	84.2	84.9	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 3000	76.1	82.3	85.8	87.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2500	76.2	82.4	86.0	87.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 2000	77.3	83.4	87.2	88.5	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1800	77.4	83.5	87.3	88.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1500	78.1	84.2	88.0	89.4	91.1	91.2	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1200	78.3	84.5	88.3	89.7	91.5	91.6	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1000	78.5	84.8	88.8	90.2	92.0	92.2	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 900	78.5	84.9	88.9	90.4	92.5	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 800	78.5	85.1	89.2	90.8	93.0	93.3	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 700	79.1	85.7	89.9	91.4	93.7	94.0	94.0	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 600	79.1	85.9	90.1	91.8	94.4	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 500	79.5	86.3	91.0	92.7	95.4	96.0	96.3	97.1	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4
GE 400	79.5	86.3	91.0	92.8	95.5	96.1	96.7	97.4	97.4	97.4	97.7	97.7	97.7	97.7	97.7	97.7
GE 300	80.0	86.9	91.5	93.3	96.0	96.7	97.3	98.1	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8
GE 200	80.0	86.9	91.5	93.3	96.0	96.7	97.4	98.2	98.5	98.6	99.2	99.2	99.4	99.4	99.4	99.4
GE 100	80.0	86.9	91.5	93.3	96.0	96.7	97.4	98.2	98.5	98.6	99.2	99.2	99.4	99.4	99.4	99.6
GE 000	80.0	86.9	91.5	93.3	96.0	96.7	97.4	98.2	98.5	98.6	99.2	99.2	99.4	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.7	47.6	51.5	53.4	54.2	54.3	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 20000	48.3	53.4	58.	60.3	61.1	61.2	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 18000	48.3	53.4	58.2	60.3	61.1	61.2	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 16000	48.3	53.4	58.2	60.3	61.1	61.2	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 14000	48.4	53.9	58.8	61.2	61.9	62.0	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 12000	49.4	54.8	59.8	62.2	62.9	63.0	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
GE 10000	51.5	57.1	62.2	64.5	65.4	65.6	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 9000	51.5	57.1	62.2	64.5	65.4	65.6	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 8000	55.9	61.9	67.3	69.9	71.0	71.2	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 7000	57.1	63.4	68.8	71.4	72.5	72.7	72.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 6000	57.6	64.0	69.4	72.0	73.1	73.3	73.5	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 5000	59.0	66.2	71.8	74.5	75.7	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 4500	59.4	66.6	72.3	74.9	76.1	76.3	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4000	61.6	69.4	75.5	78.3	79.6	79.8	80.0	80.2	80.2	80.2	80.2	80.2	0.2	80.2	80.2	80.2
GE 3500	62.4	70.1	76.2	79.0	80.3	80.5	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
GE 3000	63.4	71.3	77.7	80.9	82.5	82.8	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 2500	64.0	71.8	78.4	81.8	83.8	84.2	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2000	64.9	73.1	80.2	83.9	86.0	86.5	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 1800	65.2	73.3	80.4	84.1	86.2	86.7	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 1500	66.1	74.3	81.6	85.5	87.6	88.2	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1200	66.8	74.9	82.3	86.1	88.4	88.9	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1000	67.1	75.3	83.1	87.0	89.4	89.9	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 900	67.1	75.3	83.1	87.0	89.4	90.0	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 800	67.4	75.6	83.4	87.4	89.8	90.4	91.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 700	67.5	75.8	83.7	88.2	90.5	91.4	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 600	67.5	75.8	84.0	88.8	91.5	92.6	93.3	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 500	67.8	76.3	84.8	89.9	93.0	94.2	95.2	96.0	96.0	96.0	96.0	96.0	96.2	96.2	96.3	96.3
GE 400	67.8	76.3	84.8	89.9	93.1	94.5	95.8	96.9	96.9	96.9	96.9	96.9	97.1	97.1	97.2	97.2
GE 300	67.8	76.3	84.9	90.1	93.3	94.7	96.2	97.5	97.6	97.7	97.7	97.7	98.0	98.0	98.1	98.1
GE 200	67.8	76.3	84.9	90.1	93.3	94.7	96.2	97.6	97.7	97.8	98.0	98.0	98.3	98.3	98.6	98.8
GE 100	67.8	76.3	84.9	90.1	93.3	94.7	96.2	97.6	97.7	97.8	98.0	98.0	98.4	98.4	98.9	99.6
GE 000	67.8	76.3	84.9	90.1	93.3	94.7	96.2	97.6	97.7	97.8	98.0	98.0	98.4	98.4	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.6	47.7	52.3	53.5	54.1	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
GE 20000	43.1	51.4	56.6	58.2	58.7	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 18000	43.8	52.2	57.3	58.9	59.5	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 16000	43.9	52.3	57.4	59.0	59.6	59.9	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 14000	44.2	53.0	58.2	60.3	61.0	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
GE 12000	44.8	53.7	58.8	61.0	61.6	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 10000	47.1	56.5	61.9	64.4	65.1	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 9000	47.2	56.6	62.0	64.5	65.2	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 8000	51.4	61.5	67.6	70.6	71.3	72.0	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 7000	52.6	62.7	69.0	72.0	72.7	73.4	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000	53.5	63.8	70.2	73.2	73.9	74.6	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 5000	54.5	65.4	72.3	75.6	76.5	77.3	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 4500	54.8	65.7	72.6	75.9	76.8	77.6	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 4000	55.8	67.2	74.2	77.6	78.5	79.6	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
GE 3500	56.1	67.5	74.6	78.1	78.9	80.1	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 3000	56.5	68.0	75.4	79.0	80.0	81.3	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 2500	56.8	68.3	75.8	79.8	80.9	82.3	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 2000	58.0	69.5	77.6	81.7	83.0	84.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 1800	58.0	69.5	77.6	81.7	83.0	84.5	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 1500	58.4	69.9	78.4	82.6	84.1	85.7	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 1200	59.0	70.8	79.5	83.9	86.0	88.0	89.4	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1000	59.2	71.1	80.0	84.8	87.1	89.1	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 900	59.2	71.3	80.2	85.2	87.4	89.6	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 800	59.2	71.6	81.1	86.0	88.3	90.5	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 700	59.5	71.8	81.6	86.8	89.5	92.5	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 600	59.5	71.8	81.8	87.1	90.3	93.5	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 500	59.5	72.0	82.2	88.0	91.5	95.1	96.8	97.0	97.0	97.0	97.0	97.0	97.1	97.2	97.2	97.3
GE 400	59.5	72.0	82.3	88.1	91.7	95.4	97.3	97.6	97.6	97.6	97.6	97.6	97.7	97.8	97.8	98.0
GE 300	59.5	72.0	82.3	88.1	91.8	95.5	97.7	98.3	98.3	98.7	98.7	98.7	98.8	98.9	98.9	99.0
GE 200	59.5	72.0	82.3	88.1	91.8	95.5	97.7	98.3	98.3	99.0	99.0	99.0	99.1	99.2	99.4	99.6
GE 100	59.5	72.0	82.3	88.1	91.8	95.5	97.7	98.3	98.3	99.0	99.0	99.0	99.1	99.2	99.7	99.9
GE 000	59.5	72.0	82.3	88.1	91.8	95.5	97.7	98.3	98.3	99.0	99.0	99.0	99.1	99.2	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	G 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.5	52.5	54.5	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
GE 20000	51.0	58.7	60.8	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 18000	51.7	59.7	61.8	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 16000	52.2	60.2	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 14000	52.4	60.6	63.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 12000	53.4	61.7	64.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 10000	56.3	64.9	67.5	68.5	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 9000	56.6	65.2	67.7	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 8000	61.2	70.4	73.0	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 7000	61.9	71.4	74.0	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 6000	62.7	72.2	74.7	76.0	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 5000	63.4	73.3	76.1	77.4	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 4500	63.4	73.3	76.2	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 4000	64.8	75.4	78.3	79.8	80.6	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 3500	65.2	75.8	78.8	80.3	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
GE 3000	66.5	77.5	80.6	82.4	83.4	83.5	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 2500	67.5	79.0	82.4	84.1	85.2	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 2000	68.6	80.3	83.8	85.7	86.9	87.0	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 1800	68.6	80.4	83.9	85.8	87.0	87.1	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 1500	69.2	81.5	85.3	87.4	88.9	89.0	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
GE 1200	69.8	82.4	86.8	89.5	91.6	91.7	91.9	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1000	70.2	83.1	88.1	90.8	93.0	93.2	93.4	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 900	70.6	83.5	88.5	91.2	93.9	94.1	94.3	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 800	70.9	84.0	89.2	92.0	94.9	95.2	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 700	70.9	84.3	89.8	92.7	96.0	96.2	96.5	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 600	70.9	84.4	89.9	92.8	96.5	96.9	97.1	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 500	70.9	84.4	90.0	92.9	97.1	97.7	98.0	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
GE 400	70.9	84.4	90.1	93.0	97.4	98.3	98.8	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	70.9	84.4	90.1	93.0	97.4	98.3	98.8	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	70.9	84.4	90.1	93.0	97.4	98.3	98.8	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	70.9	84.4	90.1	93.0	97.4	98.3	98.8	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	70.9	84.4	90.1	93.0	97.4	98.3	98.8	99.5	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.5	55.4	57.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
GE 20000	56.2	63.0	65.2	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 18000	57.1	64.3	66.5	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 16000	57.3	64.7	66.9	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 14000	57.8	65.3	67.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 12000	58.5	66.0	68.3	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
GE 10000	61.0	68.5	70.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 9000	61.4	68.9	71.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 8000	66.6	75.3	77.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 7000	67.1	75.8	78.3	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 6000	67.7	76.5	78.9	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 5000	68.9	78.4	80.9	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 4500	68.9	78.5	81.1	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 4000	70.4	80.3	83.1	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 3500	71.0	80.9	83.8	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 3000	72.8	83.4	86.6	88.1	88.7	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2500	73.2	84.3	87.6	89.1	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 2000	73.8	85.3	88.9	91.1	91.9	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 1800	73.8	85.3	88.9	91.2	92.0	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1500	75.2	86.9	90.5	93.2	94.1	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
GE 1200	76.2	88.3	92.3	95.2	96.3	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	76.3	88.4	92.7	95.7	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 900	76.3	88.5	92.9	95.9	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 800	76.3	88.6	93.1	96.2	97.4	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 700	76.3	88.8	93.3	96.6	97.8	98.3	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 600	76.3	88.8	93.3	96.6	98.2	98.6	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	76.3	88.8	93.3	96.6	98.2	98.6	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	76.3	88.9	93.4	96.7	98.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	76.3	88.9	93.4	96.7	98.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	76.3	88.9	93.4	96.7	98.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	76.3	88.9	93.4	96.7	98.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	76.3	88.9	93.4	96.7	98.6	99.0	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME:LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.7	55.5	58.1	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 20000	52.5	62.3	65.4	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 18000	53.0	63.0	66.1	66.7	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 16000	53.0	63.2	66.3	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 14000	53.3	63.5	66.7	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 12000	54.0	64.3	67.4	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 10000	56.5	67.4	70.8	71.4	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 9000	56.9	67.8	71.2	71.8	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 8000	61.5	74.0	77.5	78.3	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 7000	63.8	76.6	80.1	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 6000	64.3	77.3	81.1	81.8	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
GE 5000	65.3	78.5	82.6	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4500	65.3	78.5	82.6	83.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4000	67.3	81.5	85.9	86.9	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 3500	67.8	82.2	86.6	87.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 3000	69.6	84.0	88.7	90.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 2500	69.8	84.4	89.2	90.8	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 2000	70.6	85.4	90.4	92.4	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1800	70.6	85.4	90.4	92.4	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1500	71.4	86.1	91.4	93.5	94.9	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1200	71.9	86.9	92.4	94.8	96.6	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	71.9	86.9	92.4	94.9	96.9	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 900	72.0	87.0	92.5	95.1	97.0	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 800	72.0	87.2	92.8	95.4	97.4	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 700	72.3	87.8	93.4	96.1	98.3	98.7	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 600	72.3	87.8	93.7	96.3	98.7	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	72.3	87.8	93.8	96.5	98.9	99.4	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	72.3	87.8	93.9	96.6	99.1	99.6	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	72.3	87.8	93.9	96.7	99.2	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	72.3	87.8	93.9	96.7	99.2	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	72.3	87.8	93.9	96.7	99.2	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	72.3	87.8	93.9	96.7	99.2	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	49.0	55.8	58.9	59.4	59.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 20000	52.3	60.4	64.3	65.3	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 18000	52.9	61.1	64.9	65.9	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 16000	52.9	61.3	65.2	66.1	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 14000	54.1	62.6	66.5	67.4	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 12000	55.1	63.5	67.4	68.4	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 10000	57.8	66.8	70.9	71.9	72.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 9000	58.0	66.9	71.0	72.0	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 8000	62.2	71.3	75.5	76.7	77.5	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 7000	63.9	73.2	77.4	78.6	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 6000	64.7	74.2	78.5	79.7	80.8	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 5000	66.1	76.0	80.5	81.7	83.0	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 4500	66.1	76.0	80.5	81.7	83.0	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 4000	68.4	78.6	83.3	84.7	86.0	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 3500	69.1	79.8	85.1	86.5	88.0	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 3000	70.1	81.1	86.5	87.8	89.6	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2500	70.4	81.4	86.8	88.2	90.0	90.3	90.3	90.4	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 2000	71.1	82.4	87.8	89.4	91.3	91.8	91.8	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 1800	71.3	82.6	88.1	89.6	91.5	92.0	92.0	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 1500	72.2	83.7	89.2	90.8	92.7	93.2	93.2	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1200	72.5	84.1	89.8	91.3	93.5	94.1	94.2	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1000	72.8	84.4	90.3	91.8	94.2	94.7	94.8	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 900	72.8	84.5	90.5	92.0	94.5	95.1	95.2	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 800	72.9	84.6	90.6	92.2	94.6	95.3	95.4	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 700	73.2	84.9	91.0	92.6	95.3	95.9	96.0	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 600	73.4	85.2	91.2	93.2	96.0	97.0	97.1	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 500	73.7	85.4	91.4	93.4	96.3	97.4	97.5	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 400	73.7	85.4	91.5	93.7	96.9	98.1	98.3	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	73.7	85.4	91.5	93.7	97.0	98.2	98.4	99.2	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	73.7	85.4	91.5	93.7	97.0	98.2	98.4	99.2	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	73.7	85.4	91.5	93.7	97.0	98.2	98.4	99.2	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	73.7	85.4	91.5	93.7	97.0	98.2	98.4	99.2	99.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.8	54.6	55.8	56.2	56.7	56.7	56.7	56.7	56.7	56.7	56.7	5.7	56.7	56.7	56.7	56.7
GE 20000	55.4	60.3	62.6	63.2	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
GE 18000	55.7	60.6	62.9	63.5	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 16000	56.0	61.0	63.2	63.9	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
GE 14000	56.6	61.5	63.9	64.5	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
GE 12000	57.4	62.4	64.7	65.4	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
GE 10000	60.6	65.9	68.4	69.1	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8	69.8	69.8	69.8	69.8
GE 9000	60.8	66.0	68.5	69.2	69.8	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9
GE 8000	66.6	72.2	74.9	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
GE 7000	69.6	75.3	78.1	78.8	79.4	79.4	79.4	79.4	79.4	79.4	79.5	79.5	79.5	79.5	79.5	79.5
GE 6000	70.3	76.0	78.8	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2
GE 5000	71.1	76.8	79.6	80.3	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.2	81.2	81.2	81.2	81.2
GE 4500	71.4	77.1	79.9	80.6	81.4	81.4	81.4	81.4	81.4	81.4	81.5	81.5	81.5	81.5	81.5	81.5
GE 4000	74.2	80.3	83.1	84.1	84.8	84.8	84.8	84.8	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9
GE 3500	75.4	81.7	84.8	86.0	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2
GE 3000	76.6	83.2	86.5	88.1	89.5	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6
GE 2500	76.8	83.4	86.8	88.5	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	77.6	84.3	87.6	89.7	91.2	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3
GE 1800	77.8	84.5	87.8	89.9	91.4	91.4	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	79.0	85.7	89.2	91.3	92.8	92.8	92.8	92.8	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0
GE 1200	79.1	86.0	89.6	91.6	93.1	93.3	93.3	93.3	93.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5
GE 1000	79.4	86.3	89.9	91.9	93.8	94.0	94.0	94.0	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2
GE 900	79.4	86.6	90.3	92.4	94.2	94.4	94.4	94.4	94.4	94.5	94.6	94.6	94.6	94.6	94.6	94.6
GE 800	79.5	86.7	90.8	92.8	94.6	94.8	94.8	94.8	94.8	94.9	95.2	95.2	95.2	95.2	95.2	95.2
GE 700	80.0	87.2	91.4	93.4	95.3	95.7	95.8	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.1
GE 600	80.3	87.5	91.8	94.1	95.9	96.5	96.6	96.6	96.6	96.7	96.9	96.9	96.9	96.9	96.9	96.9
GE 500	80.5	88.0	92.4	94.7	96.6	97.3	97.4	97.4	97.4	97.5	97.7	97.7	97.7	97.7	97.7	97.7
GE 400	80.5	88.0	92.4	94.7	96.7	97.4	97.7	97.7	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1
GE 300	80.6	88.1	92.6	94.9	97.3	98.1	98.5	98.7	98.8	99.0	99.4	99.4	99.4	99.4	99.4	99.5
GE 200	80.6	88.1	92.6	94.9	97.3	98.1	98.5	98.7	98.8	99.0	99.4	99.4	99.4	99.4	99.5	99.6
GE 100	80.6	88.1	92.6	94.9	97.3	98.1	98.5	98.7	98.8	99.0	99.5	99.5	99.5	99.5	99.6	99.7
GE 000	80.6	88.1	92.6	94.9	97.3	98.1	98.5	98.7	98.8	99.0	99.5	99.5	99.5	99.5	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.2	53.1	55.6	56.4	56.7	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 20000	52.0	58.9	62.1	63.1	63.4	63.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 18000	52.5	59.6	62.7	63.7	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 16000	52.6	59.8	62.9	64.0	64.3	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 14000	53.0	60.3	63.6	64.7	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 12000	53.8	61.2	64.4	65.6	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 10000	56.5	64.1	67.5	68.8	69.3	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
GE 9000	56.7	64.3	67.7	69.0	69.5	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 8000	61.5	69.8	73.5	74.9	75.5	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 7000	63.1	71.5	75.3	76.7	77.3	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 6000	63.8	72.3	76.1	77.5	78.2	78.3	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 5000	64.9	73.9	77.8	79.3	80.1	80.2	80.3	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 4500	65.0	74.0	78.0	79.5	80.3	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4000	67.0	76.5	80.8	82.4	83.3	83.5	83.6	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3500	67.7	77.4	81.8	83.4	84.4	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 3000	68.9	78.8	83.5	85.4	86.6	86.9	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 2500	69.3	79.4	84.1	86.2	87.5	87.8	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2000	70.2	80.5	85.5	87.8	89.3	89.6	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1800	70.3	80.6	85.6	87.9	89.4	89.8	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1500	71.2	81.5	86.7	89.2	90.8	91.2	91.5	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
GE 1200	71.7	82.2	87.6	90.3	92.1	92.6	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1000	71.9	82.5	88.2	90.9	92.9	93.5	93.8	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
GE 900	72.0	82.7	88.4	91.1	93.2	93.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 800	72.1	82.9	88.8	91.6	93.8	94.4	94.7	95.0	95.0	95.0	95.1	95.1	95.1	95.1	95.1	95.1
GE 700	72.4	83.3	89.3	92.2	94.5	95.3	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 600	72.4	83.4	89.5	92.6	95.2	96.1	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 500	72.6	83.6	89.9	93.1	95.9	97.0	97.5	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.2
GE 400	72.6	83.7	89.9	93.2	96.1	97.3	98.0	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 300	72.6	83.7	90.0	93.3	96.3	97.5	98.3	98.9	99.0	99.2	99.3	99.3	99.3	99.3	99.4	99.4
GE 200	72.6	83.7	90.0	93.3	96.3	97.5	98.3	98.9	99.1	99.2	99.4	99.4	99.5	99.5	99.6	99.7
GE 100	72.6	83.7	90.0	93.3	96.3	97.5	98.3	98.9	99.1	99.2	99.5	99.5	99.5	99.6	99.7	99.8
GE 000	72.6	83.7	90.0	93.3	96.3	97.5	98.3	98.9	99.1	99.2	99.5	99.5	99.5	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.0	59.3	62.2	64.0	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 20000	58.7	66.8	70.7	73.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 18000	58.7	66.8	70.7	73.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 16000	58.7	66.8	70.7	73.1	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 14000	59.2	67.4	71.3	73.8	74.9	74.9	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
GE 12000	60.0	68.2	72.1	74.6	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 10000	63.6	72.2	76.6	79.3	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 9000	63.7	72.3	76.7	79.4	80.7	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 8000	68.6	78.0	82.7	85.8	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 7000	69.4	78.9	83.6	86.7	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 6000	69.7	79.2	83.9	87.0	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 5000	71.0	80.6	85.2	88.3	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 4500	71.1	80.7	85.3	88.4	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 4000	73.1	82.7	87.7	90.9	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 3500	73.6	83.2	88.4	91.9	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 3000	74.3	84.0	89.3	92.8	94.3	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 2500	74.8	84.8	90.1	93.6	95.1	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2000	75.7	85.7	91.0	94.4	96.0	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1800	75.7	85.7	91.0	94.4	96.0	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1500	75.9	85.9	91.2	94.7	96.2	96.3	96.7	96.8	96.8	96.9	96.9	96.9	96.9	96.9	97.0	97.0
GE 1200	76.3	86.4	91.8	95.2	96.8	96.9	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.6	97.6
GE 1000	76.8	87.0	92.3	96.1	97.7	97.8	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.6	98.6
GE 900	77.0	87.2	92.6	96.3	97.9	98.0	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.8	98.8
GE 800	77.0	87.2	92.7	96.6	98.1	98.2	98.8	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1
GE 700	77.0	87.2	92.7	96.7	98.2	98.3	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
GE 600	77.0	87.2	92.7	96.7	98.2	98.3	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
GE 500	77.0	87.2	92.7	96.7	98.2	98.3	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.2	99.2
GE 400	77.2	87.4	93.0	97.1	98.7	98.8	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GE 300	77.2	87.4	93.0	97.1	98.7	98.8	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GE 200	77.2	87.4	93.0	97.1	98.8	98.9	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.8	99.8
GE 100	77.2	87.4	93.0	97.1	98.8	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	100.0	100.0
GE 000	77.2	87.4	93.0	97.1	98.8	98.9	99.4	99.6	99.6	99.7	99.8	99.8	99.8	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.4	50.8	56.0	59.4	62.0	62.6	63.0	63.1	63.1	63.2	63.2	63.2	63.3	63.3	63.3	63.3
GE 20000	48.2	55.9	61.6	65.7	68.4	69.1	69.6	69.7	69.7	69.8	69.8	69.8	69.9	69.9	69.9	69.9
GE 18000	48.4	56.1	61.8	65.9	68.7	69.3	69.8	69.9	69.9	70.0	70.0	70.0	70.1	70.1	70.1	70.1
GE 16000	48.4	56.1	61.8	65.9	68.7	69.3	69.8	69.9	69.9	70.0	70.0	70.0	70.1	70.1	70.1	70.1
GE 14000	48.8	56.7	62.3	66.4	69.2	69.9	70.3	70.4	70.4	70.6	70.6	70.6	70.7	70.7	70.7	70.7
GE 12000	49.6	57.4	63.1	67.2	70.1	70.8	71.2	71.3	71.3	71.4	71.4	71.4	71.6	71.6	71.6	71.6
GE 10000	54.4	62.8	69.1	73.4	76.3	77.2	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.0
GE 9000	54.4	62.8	69.1	73.4	76.3	77.2	77.7	77.8	77.8	77.9	77.9	77.9	78.0	78.0	78.0	78.0
GE 8000	59.7	68.4	75.0	79.7	82.8	83.7	84.1	84.2	84.2	84.3	84.3	84.3	84.4	84.4	84.4	84.4
GE 7000	60.6	69.3	76.0	80.7	83.8	84.7	85.1	85.2	85.2	85.3	85.3	85.3	85.4	85.4	85.4	85.4
GE 6000	60.8	69.6	76.2	81.0	84.1	85.0	85.4	85.6	85.6	85.7	85.7	85.7	85.8	85.8	85.8	85.8
GE 5000	62.4	71.2	77.9	82.8	85.9	86.8	87.2	87.3	87.3	87.4	87.4	87.4	87.6	87.6	87.6	87.6
GE 4500	62.7	71.4	78.1	83.0	86.1	87.0	87.4	87.6	87.6	87.7	87.7	87.7	87.8	87.8	87.8	87.8
GE 4000	63.7	72.7	79.3	84.6	87.9	88.8	89.2	89.3	89.3	89.4	89.4	89.4	89.6	89.6	89.6	89.6
GE 3500	64.2	73.3	80.1	85.7	89.0	89.9	90.3	90.4	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.7
GE 3000	65.7	74.9	81.9	87.6	91.0	91.9	92.3	92.4	92.4	92.6	92.6	92.6	92.7	92.7	92.7	92.7
GE 2500	66.2	75.4	82.4	88.1	91.6	92.4	92.9	93.0	93.0	93.1	93.1	93.1	93.2	93.2	93.2	93.2
GE 2000	66.8	76.1	83.2	89.1	92.6	93.6	94.0	94.1	94.1	94.2	94.2	94.2	94.3	94.3	94.3	94.3
GE 1800	66.9	76.2	83.3	89.2	92.7	93.7	94.1	94.2	94.2	94.3	94.3	94.3	94.4	94.4	94.4	94.4
GE 1500	67.1	76.6	83.7	89.7	93.3	94.3	94.8	95.0	95.0	95.1	95.1	95.1	95.2	95.2	95.2	95.2
GE 1200	67.9	77.7	84.9	91.0	94.8	95.8	96.3	96.6	96.6	96.7	96.7	96.7	96.8	96.8	96.8	96.8
GE 1000	68.2	78.2	85.4	91.7	95.4	96.4	97.1	97.3	97.3	97.4	97.4	97.4	97.6	97.6	97.6	97.6
GE 900	68.6	78.7	85.9	92.1	95.9	96.9	97.6	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.0	98.0
GE 800	68.9	79.0	86.2	92.4	96.2	97.2	97.9	98.1	98.1	98.2	98.2	98.2	98.3	98.3	98.3	98.3
GE 700	68.9	79.1	86.4	93.0	96.9	97.9	98.7	98.9	98.9	99.0	99.0	99.0	99.1	99.1	99.1	99.1
GE 600	68.9	79.1	86.6	93.1	97.1	98.2	99.0	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
GE 500	68.9	79.1	86.6	93.1	97.1	98.2	99.0	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
GE 400	68.9	79.1	86.6	93.1	97.1	98.2	99.0	99.2	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4
GE 300	68.9	79.1	86.8	93.4	97.4	98.6	99.3	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 200	68.9	79.1	86.8	93.4	97.4	98.6	99.3	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8
GE 100	68.9	79.1	86.8	93.4	97.4	98.6	99.3	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	68.9	79.1	86.8	93.4	97.4	98.6	99.3	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	36.4	47.0	53.4	57.6	59.0	60.2	60.3	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 20000	39.8	51.7	59.0	63.7	65.4	66.9	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 18000	39.8	51.7	59.0	63.8	65.6	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 16000	39.8	51.7	59.0	63.8	65.6	67.0	67.1	67.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 14000	39.9	51.8	59.4	64.2	66.0	67.4	67.6	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 12000	40.2	52.3	60.1	65.0	66.8	68.2	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 10000	44.0	56.6	64.9	69.9	71.7	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 9000	44.4	57.0	65.4	70.6	72.3	73.8	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 8000	49.7	63.3	72.3	77.8	79.6	81.2	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
GE 7000	51.2	65.1	74.3	80.0	81.9	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 6000	51.7	65.7	75.0	80.7	82.6	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 5000	53.1	67.2	76.6	82.3	84.2	85.9	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 4500	53.2	67.3	76.7	82.4	84.3	86.0	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 4000	54.4	68.6	78.0	84.1	86.2	87.9	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 3500	54.6	68.9	78.4	84.6	86.8	88.4	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 3000	55.3	69.7	80.0	86.1	88.3	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 2500	56.0	70.4	80.8	87.0	89.2	91.1	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 2000	56.3	70.8	81.1	87.4	89.7	91.6	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1800	56.3	70.8	81.4	87.8	90.0	91.9	92.0	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 1500	56.7	71.3	82.1	88.6	90.8	92.7	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1200	57.2	72.0	83.2	89.8	92.0	93.9	94.0	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1000	57.7	73.1	84.8	91.3	93.7	95.6	95.8	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 900	57.8	73.2	84.9	91.4	93.9	95.8	96.0	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 800	58.0	73.6	85.6	92.4	95.0	97.0	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 700	58.0	73.7	85.7	92.9	95.8	97.9	98.2	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 600	58.0	73.8	85.9	93.2	96.2	98.6	98.9	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	58.1	73.9	86.0	93.3	96.3	98.7	99.0	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 400	58.1	73.9	86.1	93.4	96.6	98.9	99.2	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	58.1	73.9	86.1	93.4	96.7	99.0	99.4	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	58.1	73.9	86.1	93.4	96.7	99.0	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	58.1	73.9	86.1	93.4	96.7	99.0	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	58.1	73.9	86.1	93.4	96.7	99.0	99.4	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	45.1	56.4	62.6	63.9	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 20000	49.7	63.0	69.8	71.3	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 18000	49.8	63.1	69.9	71.4	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 16000	49.8	63.1	69.9	71.4	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 14000	50.0	63.4	70.4	72.0	72.8	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 12000	50.4	64.0	71.2	72.9	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 10000	53.0	67.2	75.0	76.9	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 9000	53.3	67.6	75.3	77.2	78.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 8000	58.2	73.0	81.1	83.3	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 7000	59.0	74.1	82.3	84.6	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 6000	59.2	74.3	82.7	84.9	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 5000	60.0	75.3	83.7	85.9	86.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 4500	60.0	75.3	83.7	85.9	86.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 4000	61.1	76.9	85.2	87.6	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 3500	62.2	78.0	86.3	88.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 3000	63.2	79.4	87.8	90.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 2500	63.9	80.2	88.6	90.9	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 2000	65.2	82.1	90.8	93.1	94.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 1800	65.3	82.3	91.0	93.3	94.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1500	66.4	83.6	92.2	94.6	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1200	67.4	84.8	93.6	96.2	97.3	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 1000	67.8	85.1	94.	96.7	97.9	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 900	67.8	85.1	94.0	96.9	98.2	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	68.0	85.3	94.3	97.3	98.9	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 700	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	68.0	85.3	94.7	97.7	99.2	99.8	00.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	68.0	85.3	94.7	97.7	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.0	60.4	65.9	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 20000	53.7	68.2	74.4	76.3	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 18000	53.9	68.4	74.7	76.6	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 16000	53.9	68.4	74.7	76.7	76.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 14000	54.8	69.3	75.6	77.6	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 12000	55.4	70.1	76.6	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 10000	58.2	73.8	80.8	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 9000	58.2	73.8	80.8	82.9	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 8000	62.8	78.9	86.1	89.0	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 7000	63.2	79.4	86.7	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 6000	64.1	80.3	87.6	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 5000	64.6	80.8	88.2	91.2	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 4500	64.7	81.0	88.4	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 4000	65.4	82.0	89.6	92.6	92.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 3500	65.8	82.6	90.2	93.2	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
GE 3000	67.4	84.3	92.4	95.4	95.6	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 2500	67.9	84.9	93.0	96.0	96.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 2000	68.3	85.4	93.6	96.6	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1800	68.4	85.6	93.7	96.7	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1500	69.6	86.8	95.0	98.0	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1200	70.2	87.4	95.8	98.9	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1000	70.2	87.4	95.8	98.9	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 900	70.2	87.6	96.1	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 800	70.2	87.6	96.1	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700	70.2	87.6	96.1	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	70.2	87.6	96.1	99.2	99.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	70.4	87.8	96.3	99.4	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.4	59.4	65.0	67.2	67.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
GE 20000	52.3	66.9	74.0	76.2	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 18000	52.9	67.4	74.6	76.8	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 16000	52.9	67.4	74.6	76.8	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
GE 14000	53.2	67.8	74.9	77.1	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 12000	53.6	68.1	75.2	77.4	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
GE 10000	56.9	72.0	79.7	81.9	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 9000	57.1	72.2	79.9	82.1	82.8	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 8000	61.0	77.2	85.7	88.3	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 7000	61.3	77.7	86.2	89.1	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 6000	62.2	78.6	87.1	90.1	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 5000	63.0	79.6	88.2	91.4	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 4500	63.1	79.7	88.3	91.6	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 4000	65.0	81.6	90.6	94.1	95.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 3500	65.3	82.1	91.1	94.8	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 3000	66.3	83.3	92.3	96.1	97.0	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 2500	66.6	83.6	92.7	96.7	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2000	67.3	84.3	93.4	97.6	98.6	98.9	99.2	99.2	99.2	99.	99.2	99.2	99.2	99.2	99.2	99.2
GE 1800	67.3	84.3	93.4	97.6	98.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1500	67.4	84.4	93.6	97.7	98.8	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 1200	67.9	84.9	94.0	98.1	99.2	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1000	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 900	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	67.9	85.0	94.1	98.2	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.8	57.3	63.4	64.7	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
GE 20000	53.7	63.9	71.1	72.7	72.9	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 18000	53.7	63.9	71.2	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 16000	53.7	63.9	71.2	72.8	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 14000	54.2	64.6	71.9	73.4	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 12000	55.2	65.8	73.1	74.7	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 10000	58.2	69.3	76.9	78.7	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 9000	58.8	69.9	77.4	79.2	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 8000	62.8	74.7	83.6	85.6	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 7000	63.0	75.3	84.2	86.2	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 6000	63.6	76.0	85.1	87.1	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 5000	64.1	76.9	86.1	88.3	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
GE 4500	64.2	77.0	86.2	88.6	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 4000	65.6	78.9	88.4	91.3	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 3500	66.0	79.7	89.7	92.7	93.9	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 3000	67.3	81.7	91.9	95.8	97.2	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 2500	67.6	81.9	92.1	96.0	97.4	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 2000	68.0	82.7	93.0	96.9	98.3	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1800	68.0	82.7	93.0	96.9	98.3	98.8	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 1500	68.3	83.0	93.3	97.2	98.7	99.1	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 1200	68.3	83.0	93.3	97.2	98.9	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 1000	68.4	83.1	93.4	97.3	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	68.4	83.1	93.4	97.3	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	68.4	83.1	93.4	97.3	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	68.4	83.1	93.4	97.3	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	68.4	83.1	93.4	97.3	99.0	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	68.4	83.1	93.4	97.3	99.0	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.8	61.3	64.6	65.8	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 20000	60.7	67.6	71.3	72.8	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 18000	60.8	67.7	71.4	72.9	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 16000	60.8	67.7	71.4	72.9	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 14000	61.1	68.0	71.8	73.2	73.6	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 12000	61.9	68.8	72.6	74.0	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 10000	65.0	72.3	76.3	77.8	78.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 9000	65.6	72.9	76.9	78.3	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
GE 8000	70.4	78.3	82.7	84.3	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 7000	70.9	78.8	83.1	84.8	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 6000	71.7	79.7	84.0	85.7	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 5000	73.2	81.3	85.7	87.3	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 4500	73.7	81.8	86.1	87.8	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 4000	75.8	84.2	88.9	91.0	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
E 3500	76.3	85.1	90.4	92.8	93.9	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 3000	77.7	86.6	92.2	94.8	95.9	96.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 2500	78.2	87.1	92.9	95.4	96.7	97.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 2000	78.9	87.8	93.7	96.3	97.6	97.9	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1800	78.9	87.8	93.7	96.3	97.6	97.9	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 1500	79.0	87.9	93.8	96.4	97.7	98.0	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 1200	79.2	88.2	94.1	96.8	98.0	98.3	98.8	98.8	98.8	99.0	99.0	990	99.0	99.0	99.0	99.0
GE 1000	79.3	88.6	94.4	97.1	98.3	98.7	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 900	79.3	88.8	94.7	97.3	98.6	98.9	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	79.3	88.8	94.7	97.3	98.6	98.9	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 700	79.3	88.8	94.7	97.3	98.6	98.9	99.3	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	79.3	88.8	94.8	97.4	98.7	99.0	99.4	99.4	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	79.3	88.8	94.8	97.7	98.9	99.2	99.7	99.7	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	79.3	88.8	94.8	97.7	98.9	99.3	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	79.3	88.8	94.8	97.7	98.9	99.3	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	79.3	88.8	94.8	97.7	98.9	99.3	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	79.3	88.8	94.8	97.7	98.9	99.3	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	79.3	88.8	94.8	97.7	98.9	99.3	99.8	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUN HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.1	56.5	61.6	63.8	64.6	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1
GE 20000	52.1	63.0	69.0	71.5	72.4	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 18000	52.2	63.1	69.2	71.7	72.6	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 16000	52.2	63.1	69.2	71.7	72.6	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 14000	52.7	63.6	69.7	72.2	73.2	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 12000	53.3	64.3	70.5	73.0	74.0	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.6	74.6	74.6	74.6
GE 10000	56.7	68.3	74.9	77.6	78.7	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 9000	56.9	68.6	75.2	77.9	79.0	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 8000	61.6	74.0	81.1	84.2	85.4	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 7000	62.3	74.8	82.1	85.2	86.4	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 6000	62.9	75.4	82.7	85.9	87.1	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 5000	63.9	76.6	83.9	87.2	88.4	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 4500	64.1	76.8	84.1	87.4	88.6	89.1	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3
GE 4000	65.5	78.4	86.0	89.5	90.9	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 3500	66.0	79.1	86.8	90.5	91.9	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 3000	67.2	80.5	88.5	92.3	93.8	94.4	94.6	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 2500	67.6	81.0	89.1	93.0	94.5	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2000	68.3	81.9	90.0	93.9	95.4	96.0	96.3	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1800	68.4	81.9	90.1	94.0	95.5	96.1	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1500	68.8	82.4	90.6	94.6	96.1	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.2	97.2	97.2	97.2
GE 1200	69.3	83.1	91.3	95.4	97.0	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1
GE 1000	69.5	83.4	91.8	95.9	97.5	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7
GE 900	69.6	83.6	92.0	96.1	97.8	98.4	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	69.7	83.7	92.1	96.4	98.1	98.7	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 700	69.7	83.7	92.2	96.5	98.3	99.0	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600	69.7	83.7	92.3	96.6	98.4	99.1	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	69.8	83.8	92.3	96.7	98.5	99.2	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	69.8	83.8	92.4	96.8	98.5	99.3	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	69.8	83.8	92.4	96.8	98.6	99.3	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	69.8	83.8	92.4	96.8	98.6	99.3	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	69.8	83.8	92.4	96.8	98.6	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	69.8	83.8	92.4	96.8	98.6	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.4	52.7	56.7	59.8	61.9	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 20000	50.1	59.5	64.4	68.7	71.3	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 18000	50.4	59.8	64.7	69.0	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 16000	50.4	59.8	64.7	69.0	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 14000	50.6	60.1	65.1	69.4	72.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 12000	51.1	60.6	65.6	69.9	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 10000	55.7	65.6	71.2	76.2	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 9000	55.8	65.7	71.3	76.3	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 8000	60.9	71.0	76.6	81.9	85.1	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 7000	62.0	72.2	77.7	83.1	86.2	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 6000	62.9	73.0	78.6	84.1	87.3	88.0	8.0	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 5000	63.9	74.1	79.8	85.7	88.9	89.6	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 4500	64.0	74.3	80.0	85.9	89.1	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 4000	64.8	75.3	81.2	87.1	90.3	91.0	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 3500	65.7	76.3	82.7	88.6	91.8	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 3000	67.4	78.7	85.2	91.1	94.4	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 2500	67.7	79.0	85.5	9.4	94.7	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 2000	68.4	79.8	86.2	92.5	96.0	96.8	97.0	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2
GE 1800	68.4	79.8	86.2	92.5	96.0	96.8	97.0	97.0	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2
GE 1500	68.6	80.1	86.6	92.8	96.3	97.2	97.5	97.5	97.5	97.6	97.6	97.7	97.7	97.7	97.7	97.7
GE 1200	69.1	80.8	87.4	93.7	97.2	98.1	98.4	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6
GE 1000	69.4	81.0	87.7	94.0	97.5	98.4	98.7	98.7	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9
GE 900	69.7	81.3	88.1	94.4	98.0	98.8	99.1	99.1	99.1	99.2	99.2	99.4	99.4	99.4	99.4	99.4
GE 800	69.8	81.4	88.2	94.5	98.1	98.9	99.2	99.2	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5
GE 700	70.	81.6	88.4	94.7	98.3	99.1	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.7	99.7
GE 600	70.1	81.7	88.5	94.8	98.4	99.2	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8	99.8
GE 500	70.1	81.8	88.6	94.9	98.5	99.4	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9
GE 400	70.1	81.8	88.6	95.1	98.6	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 300	70.1	81.8	88.6	95.1	98.6	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 200	70.1	81.8	88.6	95.1	98.6	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	70.1	81.8	88.6	95.1	98.6	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	70.1	81.8	88.6	95.1	98.6	99.5	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	39.6	47.8	52.8	56.6	60.8	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 20000	42.9	52.0	57.7	62.9	68.2	69.4	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 18000	43.3	52.5	58.2	63.3	68.6	69.8	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 16000	43.3	52.5	58.2	63.3	68.6	69.8	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
GE 14000	43.5	52.7	58.4	63.5	68.8	70.0	70.6	70.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 12000	43.8	53.0	58.7	63.9	69.1	70.3	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 10000	47.1	56.8	63.3	68.9	74.4	75.6	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 9000	47.5	57.2	63.8	69.4	74.8	76.0	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 8000	52.8	62.8	70.5	76.7	82.4	83.7	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 7000	54.3	64.3	72.2	78.3	84.0	85.3	85.9	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 6000	55.1	65.2	73.0	79.1	84.8	86.3	87.0	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 5000	55.9	66.1	74.0	80.2	85.9	87.4	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 4500	56.0	66.2	74.1	80.3	86.0	87.5	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 4000	56.8	67.0	74.9	81.4	87.1	88.6	89.4	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 3500	58.0	68.6	76.6	83.1	88.8	90.3	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 3000	58.8	69.8	78.1	84.6	90.3	91.9	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2500	59.4	70.4	78.7	85.3	91.1	92.7	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 2000	59.9	71.1	79.4	85.9	91.8	93.4	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 1800	60.0	71.2	79.5	86.0	91.9	93.5	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 1500	60.8	72.2	80.4	87.0	92.9	94.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1200	61.4	73.1	81.4	88.0	93.9	95.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000	62.0	73.9	82.3	88.8	94.7	96.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 900	62.3	74.2	82.6	89.1	95.1	96.7	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 800	62.5	74.7	83.2	89.8	95.7	97.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 700	63.3	75.6	84.1	90.6	96.6	98.2	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	63.3	75.7	84.2	90.8	96.7	98.3	99.2	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	63.3	75.7	84.4	91.0	97.1	98.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	63.3	75.7	84.4	91.0	97.1	98.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	63.3	75.7	84.4	91.0	97.2	98.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	63.3	75.7	84.4	91.0	97.2	98.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	63.3	75.7	84.4	91.0	97.2	98.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	63.3	75.7	84.4	91.0	97.2	98.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	28.5	38.4	46.7	53.4	57.5	58.7	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 20000	31.7	43.1	52.5	60.1	64.9	66.2	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 18000	32.3	43.7	53.0	60.6	65.5	66.8	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 16000	32.4	43.8	53.1	60.8	65.6	66.9	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 14000	32.7	44.1	53.4	61.1	65.9	67.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 12000	34.2	45.7	55.2	62.9	67.7	69.0	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 10000	36.8	48.8	59.2	67.4	72.7	74.0	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 9000	37.3	49.4	59.8	68.1	73.3	74.6	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 8000	39.7	53.8	65.3	73.8	79.5	80.9	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 7000	40.8	55.4	67.0	75.6	81.4	82.8	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 6000	41.9	55.7	67.3	75.9	81.7	83.1	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 5000	41.4	56.1	67.7	77.0	83.0	84.4	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 4500	41.4	56.2	67.8	77.1	83.1	84.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 4000	41.6	56.5	68.5	78.0	84.1	85.5	86.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 3500	41.9	56.8	68.8	78.4	84.5	86.0	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 3000	42.9	58.2	70.6	80.2	86.3	88.0	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 2500	43.0	58.5	71.1	80.6	86.8	88.4	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	43.8	59.4	72.0	81.9	88.1	89.7	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1800	44.1	59.7	72.4	82.3	88.4	90.0	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1500	44.4	60.3	73.1	83.1	89.6	91.2	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1200	46.3	62.7	76.2	86.3	92.8	94.4	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1000	46.9	63.5	77.3	87.7	94.2	95.9	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	47.0	63.9	77.8	88.4	94.8	96.7	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 800	47.0	64.1	78.4	89.0	95.5	97.3	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	47.0	64.1	78.7	89.4	95.8	97.6	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	47.0	64.1	78.8	89.5	95.9	97.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	47.0	64.1	78.9	89.7	96.1	98.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	35.6	48.0	56.5	60.9	63.8	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 20000	39.8	53.5	62.9	68.1	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 18000	39.9	53.8	63.1	68.3	71.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 16000	39.9	53.8	63.1	68.3	71.4	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 14000	40.9	54.8	64.6	69.8	72.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 12000	41.9	56.3	66.2	71.4	74.5	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 10000	43.4	58.5	68.8	74.1	77.2	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 9000	43.4	58.7	69.0	74.3	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 8000	46.8	62.8	74.3	79.7	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 7000	47.1	63.1	74.6	80.0	83.1	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 6000	47.2	63.3	74.8	80.2	83.3	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 5000	47.5	63.7	75.3	80.8	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 4500	47.7	63.9	75.5	81.0	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 4000	48.4	65.1	76.7	82.3	85.5	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 3500	48.7	65.4	77.1	82.7	86.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 3000	50.1	67.5	80.2	85.9	89.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 2500	50.9	68.5	81.5	87.2	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
GE 2000	51.6	70.0	83.3	89.0	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 1800	51.7	70.1	83.4	89.1	92.8	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
GE 1500	52.8	71.4	85.2	91.0	94.6	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1200	54.3	73.8	87.8	94.0	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 1000	54.4	74.2	88.4	94.5	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 900	54.4	74.2	88.4	94.6	98.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 800	54.5	74.3	88.6	94.8	98.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 700	54.5	74.4	88.7	94.9	98.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	54.5	74.4	88.7	94.9	98.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	54.5	74.4	88.7	95.1	98.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	39.2	50.4	58.9	63.4	66.0	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 20000	43.1	55.8	65.9	71.3	74.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 18000	43.1	55.8	65.9	71.3	74.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 16000	43.1	55.8	65.9	71.3	74.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 14000	43.4	56.1	66.5	71.8	74.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 12000	43.9	56.6	67.3	72.7	75.5	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 10000	46.0	59.8	71.1	76.8	79.6	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 9000	46.1	60.1	71.4	77.1	79.9	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 8000	48.5	63.3	75.3	81.2	84.1	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 7000	48.7	63.9	76.0	81.9	84.8	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
GE 6000	49.0	64.5	76.8	82.7	85.6	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
GE 5000	49.6	65.4	77.7	83.7	86.6	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 4500	49.7	65.6	78.0	83.9	86.8	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 4000	50.3	66.8	79.6	85.7	88.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 3500	50.3	67.2	80.0	86.1	89.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 3000	52.4	70.3	83.4	89.9	92.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 2500	52.8	71.1	84.2	90.9	94.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 2000	53.4	71.8	85.2	92.3	95.7	96.9	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1800	53.9	72.4	85.7	92.8	96.2	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 1500	54.5	74.0	87.4	94.6	98.1	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 1200	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 1000	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 800	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 700	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 600	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	54.6	74.1	87.5	94.8	98.4	99.7	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	34.9	44.8	55.5	59.5	61.7	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 20000	40.8	52.4	64.4	68.9	71.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 18000	41.1	52.7	64.7	69.2	71.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
GE 16000	41.2	52.8	64.8	69.4	71.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 14000	41.9	53.5	65.6	70.1	72.6	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 12000	42.3	54.0	66.2	70.8	73.2	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
GE 10000	44.0	56.7	69.9	74.6	77.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 9000	44.1	56.9	70.2	74.9	77.5	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 8000	48.1	62.7	76.7	81.5	84.2	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 7000	48.9	64.0	78.2	83.0	85.7	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 6000	49.0	64.1	78.3	83.1	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
GE 5000	50.5	65.9	80.6	85.5	88.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 4500	50.8	66.2	81.1	85.9	88.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 4000	51.1	66.7	81.8	87.1	90.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 3500	51.3	66.9	82.4	87.7	90.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 3000	52.3	68.4	84.5	90.1	93.5	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 2500	52.8	69.2	85.5	91.2	94.6	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 2000	53.1	69.6	86.2	92.3	95.7	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1800	53.3	69.8	86.5	92.5	95.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1500	53.7	70.1	87.0	93.0	96.6	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 1200	53.7	70.1	87.1	93.1	96.9	98.9	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 1000	54.0	70.4	87.4	93.4	97.2	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 900	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 800	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 700	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 600	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	54.0	70.4	87.4	93.4	97.2	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	38.5	46.6	53.8	60.6	62.9	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
GE 20000	43.9	53.1	61.7	69.5	72.4	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 18000	43.9	53.1	61.7	69.5	72.4	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 16000	44.2	53.4	620	69.8	72.7	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 14000	44.4	53.7	62.4	70.4	73.3	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
GE 12000	44.6	54.1	62.9	71.0	73.9	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 10000	47.1	57.7	67.4	75.8	78.9	79.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 9000	47.8	58.5	68.2	76.6	79.7	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 8000	51.9	63.7	74.3	83.2	86.5	87.2	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 7000	52.7	64.4	75.3	84.2	87.5	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 6000	52.7	64.4	75.3	84.4	87.7	88.5	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 5000	53.7	65.6	77.1	86.5	89.9	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 4500	53.9	65.8	77.3	86.7	90.1	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 4000	54.2	66.6	78.4	87.8	91.3	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 3500	55.3	67.6	79.6	89.0	92.5	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 3000	55.8	68.5	80.9	90.5	94.5	95.5	95.7	95.8	95.8	95.8	95.9	95.9	96.0	96.0	96.0	96.0
GE 2500	56.1	69.0	81.4	91.2	95.2	96.1	96.3	96.5	96.5	96.5	96.6	96.6	96.7	96.7	96.7	96.7
GE 2000	56.7	69.7	82.2	91.9	95.9	96.9	97.1	97.2	97.2	97.2	97.3	97.3	97.4	97.4	97.4	97.4
GE 1800	56.7	69.7	82.3	92.0	96.2	97.2	97.4	97.5	97.5	97.5	97.6	97.6	97.7	97.7	97.7	97.7
GE 1500	56.7	69.8	82.5	92.3	96.6	97.5	97.7	97.8	97.8	97.8	98.0	98.0	98.1	98.1	98.1	98.1
GE 1200	56.9	70.1	82.8	92.6	97.0	98.1	98.4	98.5	98.5	98.5	98.6	98.6	98.7	98.7	98.7	98.7
GE 1000	57.1	70.3	83.0	92.8	97.5	98.6	98.9	99.0	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2
GE 900	57.1	70.3	83.0	92.8	97.5	98.6	98.9	99.0	99.0	99.0	99.1	99.1	99.2	99.2	99.2	99.2
GE 800	57.1	70.3	83.0	92.8	97.5	98.7	99.1	99.2	99.2	99.4	99.5	99.5	99.6	99.6	99.6	99.6
GE 700	57.1	70.3	83.0	92.8	97.5	98.7	99.1	99.2	99.2	99.5	99.6	99.6	99.7	99.7	99.7	99.7
GE 600	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8
GE 500	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.9	99.9
GE 400	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	100.0	100.0
GE 300	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	100.0	100.0
GE 200	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	100.0	100.0
GE 100	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	100.0	100.0
GE 000	57.1	70.3	83.0	92.8	97.5	98.7	99.2	99.5	99.5	99.7	99.8	99.8	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.5	50.4	55.5	60.2	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 20000	49.9	57.0	63.0	68.5	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 18000	50.0	57.1	63.1	68.6	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 16000	50.0	57.1	63.1	68.6	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 14000	50.0	57.1	63.3	69.2	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 12000	50.2	57.3	63.5	69.7	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 10000	54.3	62.2	69.0	75.6	78.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 9000	54.6	62.5	69.4	75.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 8000	60.0	68.7	76.2	83.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 7000	61.6	70.3	77.8	84.7	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 6000	61.9	70.6	78.2	85.2	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 5000	63.1	71.8	79.4	86.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 4500	63.5	72.5	80.0	87.3	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 4000	64.0	73.0	80.9	88.2	91.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 3500	64.7	73.9	82.0	89.5	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 3000	66.1	75.9	84.4	92.0	95.2	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 2500	66.3	76.3	84.9	92.6	95.9	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 2000	67.1	77.1	85.7	93.3	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1800	67.1	77.1	85.7	93.3	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1500	67.8	78.0	86.6	94.2	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1200	68.1	78.2	86.8	94.6	98.0	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.6	98.6
GE 1000	68.2	78.3	86.9	94.7	98.3	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 900	68.5	78.6	87.2	95.1	98.6	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.4	99.4
GE 800	68.7	78.8	87.4	95.4	98.9	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.7	99.7
GE 700	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 600	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 500	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 400	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 300	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 200	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 100	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 000	68.9	79.0	87.6	95.7	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	38.2	47.4	54.5	59.3	62.1	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 20000	42.8	53.3	61.6	67.2	70.6	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 18000	43.0	53.5	61.8	67.5	70.8	71.6	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 16000	43.1	53.6	61.9	67.6	70.9	71.7	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 14000	43.4	54.0	62.4	68.2	71.5	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 12000	44.0	54.7	63.2	69.0	72.4	73.2	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 10000	46.8	58.3	67.5	73.7	77.2	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 9000	47.1	58.6	67.9	74.1	77.6	78.5	78.7	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 8000	51.1	63.6	73.6	80.1	83.8	84.7	84.9	84.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 7000	52.0	64.7	74.9	81.4	85.1	85.9	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 6000	52.4	65.1	75.3	81.8	85.6	86.5	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 5000	53.2	66.1	76.5	83.2	87.0	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 4500	53.4	66.3	76.7	83.5	87.3	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 4000	53.9	67.1	77.7	84.7	88.5	89.4	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 3500	54.5	67.8	78.6	85.6	89.5	90.4	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 3000	55.7	69.7	80.9	88.1	92.1	93.1	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6
GE 2500	56.1	70.3	81.6	88.8	92.9	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 2000	56.7	71.0	82.5	89.9	94.1	95.2	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7
GE 1800	56.9	71.2	82.7	90.1	94.3	95.4	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
GE 1500	57.4	72.0	83.6	91.0	95.3	96.5	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 1200	58.1	72.8	84.6	92.1	96.5	97.7	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 1000	58.3	73.2	85.1	92.6	97.0	98.3	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	99.0	99.0
GE 900	58.4	73.4	85.3	92.8	97.3	98.6	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	58.5	73.5	85.5	93.1	97.5	98.9	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
GE 700	58.7	73.7	85.7	93.3	97.7	99.1	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	58.7	73.7	85.7	93.3	97.8	99.1	99.6	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	58.7	73.7	85.8	93.4	97.9	99.2	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	58.7	73.7	85.8	93.4	97.9	99.3	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100.0
GE 300	58.7	73.7	85.8	93.4	97.9	99.3	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 200	58.7	73.7	85.8	93.4	97.9	99.3	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	58.7	73.7	85.8	93.4	97.9	99.3	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	58.7	73.7	85.8	93.4	97.9	99.3	99.8	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	42.6	49.7	55.1	58.3	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
GE 20000	49.7	58.2	64.5	68.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 18000	49.8	58.3	64.6	68.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 16000	49.8	58.3	64.6	68.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 14000	49.8	58.3	64.6	68.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 12000	50.4	58.9	65.3	69.7	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 10000	54.5	63.3	70.0	74.4	75.7	75.8	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 9000	54.9	63.8	70.4	74.8	76.1	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 8000	60.1	69.9	76.9	81.6	83.0	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
GE 7000	60.2	70.0	77.0	81.7	83.1	83.2	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 6000	60.2	70.0	77.0	81.7	83.1	83.2	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 5000	61.9	71.7	78.8	83.7	85.1	85.2	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 4500	62.2	72.3	79.4	84.2	85.6	85.7	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 4000	64.0	75.1	82.4	87.4	89.2	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3500	64.7	75.9	83.3	88.5	90.4	90.5	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 3000	65.9	77.5	85.2	90.3	92.4	92.5	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2500	66.3	78.3	86.0	91.2	93.2	93.5	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 2000	66.9	78.8	86.6	92.0	94.1	94.5	94.9	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 1800	67.0	78.9	86.7	92.2	94.2	94.6	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1500	67.2	79.1	86.9	92.4	94.4	94.8	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1200	68.0	80.0	88.0	93.7	96.0	96.5	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 1000	68.2	80.2	88.2	94.0	96.3	96.8	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 900	68.3	80.3	88.4	94.2	96.6	97.0	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 800	68.4	80.4	88.5	94.3	96.7	97.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	68.4	80.4	88.7	94.5	97.0	97.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 600	68.4	80.4	88.7	94.6	97.1	97.7	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	68.4	80.4	88.8	94.7	97.4	98.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400	68.4	80.4	88.8	94.7	97.5	98.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	68.4	80.4	88.8	94.7	97.5	98.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	68.4	80.4	88.8	94.7	97.5	98.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	68.4	80.4	88.8	94.7	97.5	98.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
GE 000	68.4	80.4	88.8	94.7	97.5	98.3	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

PERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	38.9	44.9	51.2	56.9	59.7	60.1	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.6	60.6
GE 20000	46.1	53.3	60.6	67.5	70.5	71.0	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
GE 18000	46.1	53.3	60.6	67.5	70.5	71.0	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
GE 16000	46.1	53.3	60.6	67.5	70.5	71.0	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
GE 14000	46.1	53.3	60.6	67.5	70.5	71.0	71.7	71.7	71.7	71.7	71.8	71.8	71.8	71.8	71.8	71.8
GE 12000	46.6	53.8	61.3	68.2	71.2	71.6	72.4	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.5
GE 10000	48.7	56.2	64.1	71.4	74.5	74.9	75.7	75.7	75.7	75.7	75.8	75.8	75.8	75.8	75.8	75.8
GE 9000	49.2	56.8	64.6	71.9	75.1	75.5	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
GE 8000	54.0	62.0	70.6	78.3	82.0	82.5	83.3	83.3	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4
GE 7000	54.2	62.3	70.9	78.5	82.4	82.8	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8
GE 6000	54.2	62.3	70.9	78.5	82.4	82.8	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8
GE 5000	55.4	63.7	72.4	80.2	84.1	84.5	85.4	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5
GE 4500	55.5	63.8	72.6	80.5	84.4	84.8	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.8
GE 4000	57.2	66.3	75.3	83.3	87.2	87.6	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.6	88.6
GE 3500	57.4	66.7	75.6	83.7	87.5	88.0	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9
GE 3000	58.8	68.3	77.5	86.0	89.9	90.4	91.5	91.6	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7
GE 2500	59.2	69.0	78.3	87.1	91.1	91.6	92.7	92.8	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
GE 2000	59.8	69.7	78.9	87.7	91.8	92.6	93.8	93.9	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0
GE 1800	59.8	69.8	79.0	87.8	91.9	92.7	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1
GE 1500	60.2	70.4	79.7	88.6	92.7	93.4	94.6	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8
GE 1200	60.6	71.0	80.3	89.4	93.4	94.3	95.5	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7
GE 1000	60.9	71.3	80.6	89.8	94.3	95.2	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9
GE 900	60.9	71.3	80.6	89.8	94.3	95.2	96.7	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9
GE 800	60.9	71.3	80.6	89.9	94.5	95.4	97.0	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 700	61.2	71.6	81.1	90.3	95.1	95.9	97.5	97.6	97.6	97.6	97.7	97.7	97.7	97.7	97.7	97.7
GE 600	61.4	71.9	81.5	90.8	95.5	96.3	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
GE 500	61.4	71.9	81.5	90.8	95.5	96.3	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3
GE 400	61.4	71.9	81.6	90.9	95.6	96.6	98.5	98.7	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
GE 300	61.4	71.9	81.6	91.0	95.7	96.7	98.7	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
GE 200	61.4	71.9	81.6	91.0	95.7	96.7	98.9	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.6
GE 100	61.4	71.9	81.6	91.0	95.7	96.7	98.9	99.2	99.2	99.2	99.5	99.5	99.6	99.6	99.6	100.0
GE 000	61.4	71.9	81.6	91.0	95.7	96.7	98.9	99.2	99.2	99.2	99.5	99.5	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	28.1	37.2	43.4	52.0	55.5	57.8	58.4	58.6	58.8	59.1	59.1	59.2	59.2	59.2	59.2	59.4
GE 20000	32.3	42.2	49.0	58.6	62.7	65.3	65.8	66.0	66.2	66.7	66.7	66.8	66.8	66.8	66.8	67.0
GE 18000	32.4	42.4	49.2	58.8	62.9	65.5	66.0	66.2	66.5	66.9	66.9	67.0	67.0	67.0	67.0	67.2
GE 16000	32.4	42.4	49.2	58.8	62.9	65.5	66.0	66.2	66.5	66.9	66.9	67.0	67.0	67.0	67.0	67.2
GE 14000	32.5	42.6	49.5	59.0	63.1	65.7	66.2	66.5	66.7	67.1	67.1	67.2	67.2	67.2	67.2	67.4
GE 12000	33.3	43.4	50.4	60.1	64.2	66.9	67.7	68.0	68.2	68.6	68.6	68.7	68.7	68.7	68.7	68.9
GE 10000	36.3	46.9	54.2	64.7	69.0	71.8	72.7	73.0	73.4	73.9	73.9	74.0	74.0	74.0	74.0	74.2
GE 9000	36.3	47.1	54.4	64.9	69.2	72.0	72.9	73.2	73.7	74.1	74.1	74.2	74.2	74.2	74.2	74.4
GE 8000	40.0	52.6	61.0	72.2	76.8	79.8	80.6	81.1	81.5	81.9	81.9	82.0	82.0	82.0	82.0	82.3
GE 7000	40.9	53.7	62.2	73.5	78.2	81.2	82.0	82.5	82.9	83.3	83.3	83.4	83.4	83.4	83.4	83.7
GE 6000	40.9	53.7	62.2	73.5	78.2	81.2	82.0	82.5	82.9	83.3	83.3	83.4	83.4	83.4	83.4	83.7
GE 5000	41.1	54.0	63.0	74.5	79.5	82.5	83.4	83.9	84.3	84.7	84.7	84.8	84.8	84.8	84.8	85.1
GE 4500	41.1	54.0	63.0	74.6	79.6	82.6	83.5	84.0	84.4	84.8	84.8	84.9	84.9	84.9	84.9	85.2
GE 4000	42.4	55.7	65.1	77.0	81.9	84.9	85.9	86.5	86.9	87.3	87.3	87.4	87.4	87.4	87.4	87.6
GE 3500	43.0	56.6	66.2	78.3	83.3	86.3	87.3	87.8	88.3	88.7	88.7	88.8	88.8	88.8	88.8	89.0
GE 3000	43.8	57.4	67.6	79.9	85.3	88.3	89.4	90.1	90.5	91.1	91.1	91.2	91.2	91.2	91.2	91.4
GE 2500	43.8	57.5	67.7	80.0	85.4	88.4	89.5	90.3	90.8	91.3	91.3	91.4	91.4	91.4	91.4	91.6
GE 2000	44.3	58.2	68.5	80.9	86.2	89.4	90.4	91.3	91.7	92.3	92.3	92.4	92.4	92.4	92.4	92.6
GE 1800	44.3	58.2	68.5	81.0	86.3	89.5	90.5	91.4	91.8	92.4	92.4	92.5	92.5	92.5	92.5	92.7
GE 1500	44.6	58.7	69.1	81.9	87.5	90.6	91.8	92.7	93.1	93.7	93.7	93.8	93.8	93.8	93.8	94.0
GE 1200	44.9	59.0	69.8	83.0	88.7	91.8	93.1	94.0	94.4	94.9	94.9	95.1	95.1	95.1	95.1	95.3
GE 1000	45.3	59.5	70.2	83.4	89.1	92.4	93.8	94.6	95.1	95.6	95.6	95.7	95.7	95.7	95.7	95.9
GE 900	45.4	59.7	70.8	84.2	89.9	93.1	94.6	95.5	95.9	96.5	96.5	96.6	96.6	96.6	96.6	96.8
GE 800	45.7	60.0	71.1	84.8	90.8	94.0	95.5	96.3	96.8	97.3	97.3	97.4	97.4	97.4	97.4	97.6
GE 700	45.7	60.0	71.3	85.3	91.4	94.6	96.2	97.1	97.5	98.1	98.1	98.2	98.2	98.2	98.2	98.4
GE 600	45.9	60.2	71.6	85.6	91.7	95.1	96.7	97.5	98.0	98.5	98.5	98.6	98.6	98.6	98.6	98.8
GE 500	45.9	60.2	71.6	85.6	91.8	95.2	96.9	97.7	98.2	98.8	98.8	98.9	98.9	98.9	98.9	99.1
GE 400	45.9	60.2	71.6	85.6	92.0	95.4	97.2	98.3	98.7	99.4	99.4	99.5	99.5	99.5	99.5	99.7
GE 300	45.9	60.2	71.6	85.6	92.0	95.4	97.2	98.3	98.7	99.4	99.4	99.5	99.5	99.5	99.5	99.7
GE 200	45.9	60.2	71.6	85.6	92.0	95.4	97.4	98.6	99.0	99.7	99.7	99.8	99.8	99.8	99.8	100.0
GE 100	45.9	60.2	71.6	85.6	92.0	95.4	97.4	98.6	99.0	99.7	99.7	99.8	99.8	99.8	99.8	100.0
GE 000	45.9	60.2	71.6	85.6	92.0	95.4	97.4	98.6	99.0	99.7	99.7	99.8	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	32.9	44.5	54.0	58.3	60.0	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 20000	36.9	49.5	60.1	64.6	66.5	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.3
GE 18000	37.0	49.6	60.2	64.7	66.6	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 16000	37.0	49.6	60.2	64.7	66.6	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 14000	37.0	49.6	60.3	64.8	66.7	67.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
GE 12000	37.7	50.5	61.6	66.1	68.1	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 10000	40.3	53.8	64.9	69.7	71.7	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 9000	40.3	53.8	64.9	69.7	71.7	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 8000	47.2	61.8	74.0	78.7	81.0	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
GE 7000	47.6	62.3	74.5	80.0	82.3	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 6000	47.6	62.3	74.6	80.2	82.5	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 5000	47.8	62.6	74.9	80.5	82.8	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 4500	48.1	62.8	75.2	80.8	83.0	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 4000	48.9	63.8	76.1	81.8	84.1	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 3500	49.1	64.4	76.9	82.6	84.8	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 3000	51.1	66.8	79.6	85.6	88.4	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
GE 2500	51.6	67.6	80.6	86.8	89.7	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 2000	52.7	69.1	82.6	88.9	91.9	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 1800	52.7	69.1	82.6	88.9	91.9	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500	53.2	70.0	83.5	90.3	93.5	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 1200	54.0	71.6	86.0	93.1	96.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	54.1	71.7	86.1	93.4	96.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900	54.4	72.0	86.5	93.8	97.2	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 800	54.5	72.2	86.6	94.0	97.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 700	54.5	72.2	86.7	94.3	97.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	54.5	72.2	86.7	94.3	97.8	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	54.5	72.2	86.7	94.3	98.1	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	54.5	72.2	86.7	94.3	98.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	54.5	72.2	86.7	94.3	98.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	54.5	72.2	86.7	94.3	98.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	54.5	72.2	86.7	94.3	98.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 00	54.5	72.2	86.7	94.3	98.1	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	37.0	47.8	55.8	59.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 20000	42.9	55.4	64.5	68.3	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 18000	43.1	55.8	65.2	68.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 16000	43.1	55.8	65.2	68.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 14000	43.5	56.2	65.6	69.4	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 12000	44.4	57.1	66.5	70.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 10000	46.8	60.4	70.0	73.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 9000	46.8	60.4	70.0	73.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 8000	52.7	67.4	77.6	81.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 7000	53.3	68.2	78.4	82.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 6000	53.5	68.4	78.8	83.0	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 5000	53.9	68.7	79.1	83.5	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 4500	54.0	68.8	79.2	83.7	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 4000	54.7	70.0	80.5	85.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 3500	54.9	71.0	82.0	86.9	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 3000	56.2	72.5	84.2	89.2	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 2500	56.5	72.9	84.6	89.7	92.9	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
GE 2000	57.5	74.3	86.0	91.5	94.9	94.9	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 1800	57.5	74.3	86.1	91.6	95.1	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 1500	58.2	74.9	86.9	92.5	96.6	96.6	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
GE 1200	58.5	75.5	87.7	93.5	97.6	97.6	97.7	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	58.5	75.5	87.8	93.9	98.2	98.3	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900	58.5	75.6	88.0	94.0	98.3	98.4	98.5	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 800	58.5	75.9	88.3	94.3	98.6	98.7	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	58.5	76.0	88.5	94.5	98.8	98.9	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600	58.5	76.0	88.5	94.5	98.8	98.9	99.0	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	58.5	76.0	88.5	94.6	99.0	99.2	99.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	58.5	76.0	88.5	94.6	99.0	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	58.5	76.0	88.5	94.6	99.0	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	58.5	76.0	88.5	94.6	99.0	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	58.5	76.0	88.5	94.6	99.0	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	58.5	76.0	88.5	94.6	99.0	99.4	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	34.9	46.8	54.4	58.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
GE 20000	42.3	56.7	65.9	69.8	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 18000	42.4	56.8	66.0	69.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 16000	42.4	56.8	66.0	69.9	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
GE 14000	42.7	57.1	66.3	70.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 12000	43.8	58.6	68.0	72.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 10000	46.1	61.4	71.4	76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 9000	46.6	61.8	71.8	77.0	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 8000	51.1	67.4	78.2	83.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 7000	52.0	68.5	79.5	84.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 6000	52.6	69.2	80.2	85.7	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 5000	53.2	69.9	81.0	86.7	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 4500	53.5	70.2	81.3	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 4000	54.2	71.3	82.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 3500	54.5	71.9	83.3	89.6	91.3	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 3000	55.6	73.2	84.6	91.9	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
GE 2500	55.8	73.5	85.1	92.7	95.1	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
GE 2000	56.1	73.9	85.5	93.2	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1800	56.1	73.9	85.5	93.3	96.2	96.5	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1500	56.3	74.1	85.9	93.8	96.7	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200	56.6	74.4	86.3	94.4	97.3	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 1000	56.7	74.5	86.6	94.7	97.6	98.1	98.2	98.2	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 900	56.7	74.7	86.8	95.1	98.1	98.5	98.6	98.6	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	56.7	74.7	86.8	95.1	98.2	98.6	98.7	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	56.7	74.7	86.9	95.2	98.4	98.8	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	56.7	74.7	86.9	95.2	98.4	98.8	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	56.7	75.1	87.2	95.9	99.1	99.6	99.7	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	38.1	47.2	53.0	57.2	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 20000	44.9	56.7	63.8	69.1	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 18000	44.9	56.7	63.8	69.1	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
GE 16000	45.1	56.8	63.9	69.2	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
GE 14000	45.5	57.2	64.3	69.7	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 12000	47.1	58.8	65.9	71.5	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 10000	49.7	62.3	70.4	77.1	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
GE 9000	49.8	62.4	70.5	77.2	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
GE 8000	54.1	67.6	76.7	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 7000	55.1	68.8	78.0	84.6	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 6000	55.4	69.2	78.5	85.4	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 5000	56.1	70.4	79.9	86.8	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 4500	56.1	70.4	80.1	87.0	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 4000	56.9	71.3	81.2	88.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
GE 3500	57.3	71.8	81.9	89.1	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 3000	58.6	73.4	83.9	91.4	93.7	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 2500	59.1	74.1	84.7	92.4	94.6	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 2000	59.6	74.5	85.2	93.1	95.4	96.0	96.1	96.1	96.2	96.2	96.3	96.5	96.5	96.5	96.5	96.5
GE 1800	59.6	74.5	85.2	93.1	95.4	96.0	96.1	96.1	96.2	96.2	96.3	96.5	96.5	96.5	96.5	96.5
GE 1500	59.9	74.9	85.8	94.0	96.2	96.9	97.2	97.2	97.3	97.3	97.4	97.5	97.5	97.5	97.5	97.5
GE 1200	59.9	75.2	86.0	94.2	96.6	97.3	97.6	97.7	97.8	97.8	98.0	98.1	98.1	98.1	98.1	98.1
GE 1000	59.9	75.2	86.2	94.4	97.1	97.8	98.2	98.3	98.5	98.5	98.6	98.7	98.7	98.7	98.7	98.7
GE 900	59.9	75.2	86.2	94.4	97.2	98.0	98.3	98.4	98.6	98.6	98.7	98.8	98.8	98.8	98.8	98.8
GE 800	59.9	75.2	86.	94.5	97.3	98.1	98.4	98.5	98.7	98.7	98.8	98.9	98.9	98.9	98.9	98.9
GE 700	59.9	75.2	86.3	94.6	97.6	98.5	98.8	98.9	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4
GE 600	59.9	75.2	86.3	94.6	97.6	98.5	98.8	98.9	99.1	99.1	99.2	99.4	99.4	99.4	99.4	99.4
GE 500	59.9	75.5	86.7	94.9	98.2	99.0	99.4	99.5	99.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9
GE 400	59.9	75.6	86.8	95.1	98.3	99.1	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0
GE 300	59.9	75.6	86.8	95.1	98.3	99.1	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0
GE 200	59.9	75.6	86.8	95.1	98.3	99.1	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	59.9	75.6	86.8	95.1	98.3	99.1	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	59.9	75.6	86.8	95.1	98.3	99.1	99.5	99.6	99.8	99.8	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.4	51.7	57.4	60.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 20000	50.2	58.8	65.9	70.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
GE 18000	50.4	59.0	66.1	70.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 16000	50.4	59.0	66.1	70.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 14000	51.0	59.6	66.7	71.1	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 12000	51.5	60.2	67.3	71.8	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 10000	55.1	64.7	72.2	77.2	78.3	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 9000	55.4	65.1	72.5	77.5	78.6	78.7	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
GE 8000	59.8	70.4	78.4	83.7	84.8	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 7000	60.6	71.3	79.2	84.5	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
GE 6000	60.6	71.4	79.4	84.6	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 5000	61.7	72.6	80.6	85.9	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 4500	61.7	72.9	81.0	86.2	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 4000	63.5	75.4	83.4	89.1	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 3500	64.3	76.2	84.3	90.0	91.7	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 3000	65.5	77.6	85.8	91.7	93.5	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 2500	66.0	78.3	86.5	92.6	94.4	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 2000	66.8	79.0	87.3	93.8	95.6	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1800	66.8	79.0	87.3	93.8	95.6	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 1500	66.9	79.2	87.5	94.0	96.1	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 1200	67.4	80.1	88.4	94.8	97.0	97.5	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	67.5	80.2	88.5	94.9	97.3	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 900	67.5	80.2	88.5	94.9	97.3	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 800	67.7	80.6	88.9	95.4	97.7	98.3	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 700	67.7	80.6	88.9	95.5	98.2	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	67.7	80.6	88.9	95.5	98.2	98.7	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 500	67.7	80.6	88.9	95.5	98.2	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	67.7	80.6	88.9	95.5	98.5	99.0	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	67.7	80.6	89.0	95.6	98.6	99.1	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	67.7	80.6	89.0	95.6	98.6	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	67.7	80.6	89.0	95.6	98.6	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	67.7	80.6	89.0	95.6	98.6	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: AUG HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	37.1	46.2	53.0	57.6	59.5	59.9	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 20000	43.2	53.8	61.8	67.1	69.2	69.6	69.8	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0
GE 18000	43.3	54.0	62.0	67.3	69.4	69.8	70.0	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 16000	43.3	54.0	62.0	67.3	69.4	69.8	70.0	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.2
GE 14000	43.5	54.2	62.2	67.6	69.6	70.1	70.3	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 12000	44.4	55.2	63.3	68.7	70.8	71.3	71.5	71.5	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.7
GE 10000	47.2	58.6	67.2	73.1	75.3	75.8	76.0	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 9000	47.4	58.9	67.4	73.4	75.5	76.0	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.5
GE 8000	52.4	64.9	74.2	80.4	82.8	83.3	83.6	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 7000	53.0	65.6	74.9	81.3	83.8	84.3	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 6000	53.1	65.8	75.2	81.6	84.0	84.6	84.9	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 5000	53.9	66.7	76.2	82.7	85.3	85.8	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4500	54.0	66.9	76.5	83.0	85.5	86.1	86.4	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 4000	55.2	68.6	78.3	85.1	87.7	88.3	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8
GE 3500	55.7	69.3	79.2	86.1	88.8	89.4	89.7	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 3000	56.9	70.8	81.0	88.3	91.2	91.9	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.6
GE 2500	57.3	71.4	81.7	89.0	92.0	92.7	93.1	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 2000	58.0	72.2	82.6	90.1	93.3	94.0	94.4	94.6	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8
GE 1800	58.0	72.2	82.6	90.2	93.3	94.1	94.5	94.7	94.8	94.8	94.9	94.9	94.9	94.9	94.9	94.9
GE 1500	58.3	72.7	83.2	90.9	94.2	95.1	95.5	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.9
GE 1200	58.7	73.3	84.1	92.0	95.4	96.3	96.8	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	58.9	73.5	84.3	92.3	95.8	96.8	97.4	97.6	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 900	58.9	73.6	84.5	92.5	96.1	97.0	97.6	97.8	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 800	59.0	73.8	84.6	92.8	96.4	97.4	98.0	98.2	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	59.1	73.8	84.8	93.0	96.8	97.8	98.4	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600	59.1	73.9	84.9	93.1	96.9	97.9	98.6	98.8	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.1
GE 500	59.1	74.0	85.0	93.3	97.2	98.2	98.9	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.5
GE 400	59.1	74.0	85.0	93.3	97.3	98.3	99.1	99.4	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	59.1	74.0	85.0	93.3	97.3	98.4	99.2	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 200	59.1	74.0	85.0	93.3	97.3	98.4	99.3	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9
GE 100	59.1	74.0	85.0	93.3	97.3	98.4	99.3	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 000	59.1	74.0	85.0	93.3	97.3	98.4	99.3	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.6	57.0	60.2	61.0	62.9	63.0	63.0	63.3	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 20000	56.1	60.2	63.9	65.2	67.4	67.6	67.6	67.9	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 18000	56.1	60.2	63.9	65.2	67.4	67.6	67.6	67.9	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 16000	56.1	60.2	63.9	65.2	67.4	67.6	67.6	67.9	67.9	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 14000	56.1	60.2	64.0	65.3	67.6	67.7	67.7	68.0	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 12000	56.7	60.8	64.7	66.0	68.2	68.3	68.3	68.7	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 10000	59.9	64.9	68.9	70.2	72.4	72.6	72.6	72.9	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 9000	60.1	65.1	69.1	70.4	72.7	72.8	72.8	73.1	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 8000	65.4	71.0	75.8	77.8	80.0	80.1	80.1	80.4	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 7000	66.4	72.0	77.0	79.0	81.2	81.3	81.3	81.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 6000	66.7	72.2	77.2	79.2	81.4	81.6	81.6	81.9	81.9	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 5000	68.0	73.6	78.6	80.6	82.8	83.0	83.0	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 4500	68.4	74.0	79.0	81.0	83.2	83.4	83.4	83.8	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4000	70.2	76.2	81.4	83.4	85.8	86.0	86.0	86.3	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 3500	71.0	77.0	82.2	84.2	86.6	86.8	86.8	87.1	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 3000	73.2	79.4	85.0	87.0	89.3	89.6	89.6	89.9	89.9	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 2500	73.8	80.1	85.7	87.7	90.0	90.2	90.2	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 2000	75.0	81.4	87.2	89.3	91.7	91.9	91.9	92.2	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1800	75.1	81.6	87.3	89.4	91.8	92.0	92.0	92.3	92.3	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1500	75.3	82.0	87.9	90.0	92.4	92.7	93.0	93.3	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1200	78.1	84.9	90.8	93.2	95.8	96.0	96.3	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1000	78.1	84.9	90.8	93.2	95.8	96.0	96.4	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 900	78.1	84.9	90.8	93.2	95.8	96.0	96.4	96.8	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 800	78.7	85.4	91.8	94.2	96.8	97.0	97.4	97.8	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	78.7	85.6	92.0	94.6	97.1	97.3	97.8	98.1	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 600	78.7	85.6	92.0	94.6	97.1	97.3	97.8	98.1	98.1	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 500	78.7	85.6	92.1	94.7	97.2	97.4	97.9	98.2	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 400	78.9	85.9	92.4	95.0	97.6	97.8	98.4	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	78.9	85.9	92.4	95.0	97.6	97.8	98.8	99.1	99.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 200	78.9	85.9	92.4	95.0	97.6	97.8	98.8	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	78.9	85.9	92.4	95.0	97.6	97.8	98.8	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	78.9	85.9	92.4	95.0	97.6	97.8	98.8	99.1	99.1	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.0	54.0	56.7	58.0	59.6	60.1	60.2	60.4	60.6	60.9	61.0	61.0	61.7	61.7	61.7	61.7
GE 20000	51.9	58.6	61.9	63.8	65.6	66.2	66.7	66.9	67.0	67.3	67.4	67.4	68.1	68.1	68.1	68.1
GE 18000	51.9	58.6	61.9	63.8	65.6	66.2	66.7	66.9	67.0	67.3	67.4	67.4	68.1	68.1	68.1	68.1
GE 16000	51.9	58.6	61.9	63.8	65.6	66.2	66.7	66.9	67.0	67.3	67.4	67.4	68.1	68.1	68.1	68.1
GE 14000	51.9	58.6	61.9	63.8	65.6	66.2	66.7	66.9	67.0	67.3	67.4	67.4	68.1	68.1	68.1	68.1
GE 12000	52.2	58.9	62.4	64.3	66.1	66.8	67.2	67.4	67.6	67.9	68.0	68.0	68.7	68.7	68.7	68.7
GE 10000	54.2	61.2	65.0	67.1	68.9	69.6	70.0	70.2	70.3	70.7	70.8	70.8	71.4	71.4	71.4	71.4
GE 9000	54.2	61.2	65.1	67.2	69.0	69.7	70.1	70.3	70.4	70.8	70.9	70.9	71.6	71.6	71.6	71.6
GE 8000	59.0	66.8	71.4	73.9	75.7	76.6	77.0	77.2	77.3	77.7	77.8	77.8	78.4	78.4	78.4	78.4
GE 7000	60.2	68.0	72.8	75.2	77.0	77.9	78.3	78.6	78.7	79.0	79.1	79.1	79.8	79.8	79.8	79.8
GE 6000	60.2	68.0	72.8	75.2	77.0	77.9	78.3	78.6	78.7	79.0	79.1	79.1	79.8	79.8	79.8	79.8
GE 5000	61.4	69.3	74.1	76.6	78.3	79.2	79.7	79.9	80.0	80.3	80.4	80.4	81.1	81.1	81.1	81.1
GE 4500	62.6	70.4	75.2	77.7	79.4	80.3	80.8	81.0	81.1	81.4	81.6	81.6	82.2	82.2	82.2	82.2
GE 4000	65.0	73.3	78.1	80.8	82.6	83.4	83.9	84.1	84.2	84.6	84.7	84.7	85.3	85.3	85.3	85.3
GE 3500	65.6	74.0	78.8	81.6	83.3	84.2	84.7	84.9	850	85.3	85.4	85.4	86.1	86.1	86.1	86.1
GE 3000	67.3	75.8	81.0	83.9	85.8	86.7	87.1	87.3	87.4	87.8	87.9	87.9	88.6	88.6	88.	88.6
GE 2500	69.0	77.7	82.9	85.8	87.7	88.6	89.0	89.2	89.3	89.7	89.8	89.8	90.4	90.4	90.4	90.4
GE 2000	69.8	78.8	84.1	87.1	89.0	89.9	90.3	90.6	90.7	91.0	91.1	91.1	91.8	91.8	91.8	91.8
GE 1800	69.8	78.8	84.1	87.1	89.0	89.9	90.3	90.6	90.7	91.0	91.1	91.1	91.8	91.8	91.8	91.8
GE 1500	70.8	80.4	85.9	88.9	90.9	91.8	92.2	92.4	92.6	92.9	93.0	93.0	93.7	93.7	93.7	93.7
GE 1200	71.9	82.0	87.7	91.1	93.1	94.0	94.4	94.7	94.8	95.1	95.2	95.2	95.9	95.9	95.9	95.9
GE 1000	72.3	82.8	88.4	92.0	94.0	95.0	95.6	95.8	95.9	96.2	96.3	96.3	97.0	97.0	97.0	97.0
GE 900	72.3	82.8	88.4	92.1	94.1	95.1	95.7	95.9	96.0	96.3	96.4	96.4	97.1	97.1	97.1	97.1
GE 800	72.7	83.2	89.0	92.7	94.7	95.7	96.2	96.4	96.6	96.9	97.0	97.0	97.7	97.7	97.7	97.7
GE 700	73.1	83.7	89.4	93.1	95.1	96.1	96.8	97.0	97.1	97.4	97.6	97.6	98.2	98.2	98.2	98.2
GE 600	73.1	83.7	89.4	93.2	95.3	96.3	97.0	97.2	97.3	97.7	97.8	97.8	98.4	98.4	98.4	98.4
GE 500	73.1	83.7	89.6	93.3	95.6	96.6	97.2	97.4	97.6	97.9	98.0	98.0	98.7	98.7	98.7	98.7
GE 400	73.1	83.7	89.6	93.3	95.7	96.7	97.4	97.7	97.8	98.1	98.2	98.2	98.9	98.9	98.9	98.9
GE 300	73.1	83.7	89.6	93.3	96.0	97.0	97.8	98.0	98.1	98.4	98.6	98.6	99.2	99.2	99.2	99.2
GE 200	73.1	83.7	89.6	93.3	96.0	97.0	97.9	98.3	98.4	99.0	99.3	99.3	100.0	100.0	100.0	100.0
GE 100	73.1	83.7	89.6	93.3	96.0	97.0	97.9	98.3	98.4	99.0	99.3	99.3	100.0	100.0	100.0	100.0
GE 000	73.1	83.7	89.6	93.3	96.0	97.0	97.9	98.3	98.4	99.0	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	32.0	41.2	47.3	50.8	53.0	53.7	54.3	55.4	55.6	55.8	56.1	56.1	56.1	56.1	56.3	56.4
GE 20000	34.6	44.9	52.0	56.4	58.9	59.6	60.2	61.3	61.4	61.9	62.2	62.2	62.2	62.2	62.4	62.6
GE 18000	34.6	45.0	52.2	56.8	59.2	59.9	60.6	61.7	61.8	62.2	62.6	62.6	62.6	62.6	62.8	62.9
GE 16000	34.6	45.0	52.2	56.8	59.2	59.9	60.6	61.7	61.8	62.2	62.6	62.6	62.6	62.6	62.8	62.9
GE 14000	34.7	45.2	52.4	57.0	59.4	60.1	60.8	61.9	62.0	62.4	62.8	62.8	62.8	62.8	63.0	63.1
GE 12000	34.9	45.9	53.2	57.9	60.3	61.0	61.7	62.8	62.9	63.3	63.7	63.7	63.7	63.7	63.9	64.0
GE 10000	37.9	50.1	58.1	63.0	65.4	66.1	66.8	67.9	68.0	68.4	68.8	68.8	68.8	68.8	69.0	69.1
GE 9000	38.1	50.6	58.6	63.4	66.1	66.8	67.4	68.6	68.7	69.1	69.4	69.4	69.4	69.4	69.7	69.8
GE 8000	42.6	56.1	65.0	70.4	73.1	73.9	74.6	75.8	75.9	76.3	76.7	76.7	76.7	76.7	76.9	77.0
GE 7000	43.7	57.3	66.2	72.1	74.9	75.7	76.3	77.6	77.7	78.1	78.4	78.4	78.4	78.4	78.7	78.8
GE 6000	44.2	58.1	67.1	73.2	76.0	76.8	77.4	78.7	78.8	79.2	79.6	79.6	79.6	79.6	79.8	79.9
GE 5000	45.4	59.3	68.3	74.4	77.2	78.0	78.7	79.9	80.0	80.4	80.8	80.8	80.8	80.8	81.0	81.1
GE 4500	45.8	59.8	68.8	74.9	77.7	78.4	79.1	80.3	80.4	80.9	81.2	81.2	81.2	81.2	81.4	81.6
GE 4000	47.1	61.7	70.8	77.0	79.8	80.6	81.2	82.8	82.9	83.3	83.7	83.7	83.7	83.7	83.9	84.0
GE 3500	47.2	61.8	71.0	77.2	80.0	80.9	81.6	83.1	83.2	83.7	84.0	84.0	84.0	84.0	84.2	84.3
GE 3000	49.1	63.9	73.3	79.9	82.8	83.7	84.3	85.9	86.0	86.4	86.8	86.8	86.8	86.8	87.0	87.1
GE 2500	49.4	64.6	74.1	80.7	83.6	84.4	85.2	86.8	86.9	87.3	87.7	87.7	87.7	87.7	87.9	88.0
GE 2000	50.3	66.3	76.1	82.9	85.8	87.1	87.9	89.4	89.6	90.0	90.3	90.3	90.3	90.3	90.6	90.7
GE 1800	50.4	66.4	76.2	83.0	85.9	87.2	88.0	89.6	89.7	90.1	90.4	90.4	90.4	90.4	90.7	90.8
GE 1500	51.0	67.1	76.9	83.8	86.8	88.3	89.1	90.7	90.8	91.2	91.6	91.6	91.6	91.6	91.8	91.9
GE 1200	51.8	68.8	78.7	85.7	89.0	90.6	91.3	92.9	93.0	93.4	93.8	93.8	93.8	93.8	94.0	94.1
GE 1000	51.9	69.0	79.2	86.3	89.8	91.3	92.1	93.7	93.8	94.2	94.6	94.6	94.6	94.6	94.8	94.9
GE 900	52.1	69.3	79.8	86.9	90.7	92.2	93.0	94.7	94.8	95.2	95.6	95.6	95.6	95.6	95.8	95.9
GE 800	52.2	69.4	80.1	87.2	91.1	92.7	93.6	95.2	95.3	95.8	96.1	96.1	96.1	96.1	96.3	96.4
GE 700	52.4	70.0	80.9	88.1	92.1	93.8	94.7	96.3	96.4	96.9	97.2	97.2	97.2	97.2	97.4	97.6
GE 600	52.4	70.0	80.9	88.1	92.2	93.9	94.8	96.7	96.8	97.2	97.6	97.6	97.6	97.6	97.8	97.9
GE 500	52.7	70.3	81.2	88.4	92.6	94.4	95.3	97.4	97.7	98.1	98.4	98.4	98.4	98.4	98.7	98.8
GE 400	52.8	70.4	81.3	88.6	92.7	94.6	95.6	97.7	97.9	98.3	98.7	98.7	98.7	98.7	98.9	99.0
GE 300	52.8	70.4	81.3	88.6	92.7	94.7	95.7	98.0	98.2	98.7	99.0	99.0	99.1	99.1	99.3	99.4
GE 200	52.8	70.4	81.3	88.6	92.7	94.7	95.7	98.2	98.4	98.9	99.2	99.2	99.3	99.3	99.6	99.7
GE 100	52.8	70.4	81.3	88.6	92.7	94.7	95.7	98.2	98.4	98.9	99.2	99.2	99.3	99.3	99.7	99.9
GE 000	52.8	70.4	81.3	88.6	92.7	94.7	95.7	98.2	98.4	98.9	99.2	99.2	99.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBE : 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	43.3	51.3	55.7	58.0	59.0	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
GE 20000	48.4	57.7	62.7	65.0	66.0	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 18000	48.4	57.7	62.7	65.0	66.0	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 16000	48.4	57.7	62.7	65.0	66.0	66.1	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
GE 14000	49.2	58.6	63.6	65.9	66.9	67.0	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 12000	49.3	58.9	63.9	66.2	67.2	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 10000	52.1	62.6	68.1	70.4	71.4	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 9000	52.1	62.8	68.4	70.8	71.9	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 8000	57.4	69.3	75.2	77.6	78.8	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
GE 7000	58.3	70.3	76.2	79.1	80.3	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 6000	58.4	70.6	6.4	79.3	80.6	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 5000	59.3	71.4	77.3	80.4	81.7	81.8	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 4500	59.4	71.	77.4	80.6	81.8	81.9	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 4000	59.9	72.1	78.2	81.3	82.6	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 3500	60.2	72.4	78.6	81.7	83.1	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
GE 3000	62.7	75.1	81.6	84.8	86.3	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 2500	62.9	75.9	82.3	85.6	87.1	87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2000	64.3	78.2	84.7	88.1	90.1	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1800	64.3	78.2	84.7	88.1	90.1	90.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1500	65.2	79.3	86.0	89.7	91.8	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1200	65.7	80.0	87.6	92.2	94.6	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1000	66.1	80.6	88.2	93.2	95.6	96.1	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 900	66.3	81.2	88.9	94.1	96.6	97.1	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.7
GE 800	66.3	81.2	88.9	94.2	96.7	97.2	97.6	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.8
GE 700	66.3	81.3	89.1	94.7	97.3	97.9	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
GE 600	66.4	81.4	89.3	95.0	97.7	98.3	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3
GE 500	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 400	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 300	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 200	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 000	66.6	81.7	89.6	95.2	98.2	98.9	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.7	54.9	59.9	61.2	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 20000	54.7	61.8	66.9	68.2	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 18000	54.7	61.8	66.9	68.2	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 16000	54.7	61.8	66.9	68.2	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
GE 14000	55.1	62.2	67.3	68.7	69.6	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 12000	55.2	62.3	67.4	68.8	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 10000	58.3	66.0	71.6	72.9	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 9000	58.4	66.1	71.9	73.3	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 8000	63.4	71.8	78.1	79.8	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
GE 7000	64.4	73.0	79.6	81.2	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 6000	64.4	73.0	79.7	81.3	82.4	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 5000	65.6	74.1	81.1	82.9	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 4500	65.7	74.2	81.2	83.0	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 4000	66.2	75.3	82.6	84.4	85.6	86.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 3500	66.7	75.8	83.0	85.0	86.2	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
GE 3000	69.6	79.4	87.0	89.1	90.3	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 2500	70.8	80.8	88.7	90.8	92.2	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 2000	71.6	82.1	90.0	92.4	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1800	71.7	82.4	90.3	92.8	94.3	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 1500	72.6	83.7	91.7	94.3	95.9	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1200	73.2	85.0	93.0	95.8	97.3	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 1000	73.6	85.4	93.4	96.4	98.1	98.8	98.9	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 900	73.6	85.4	93.4	96.4	98.2	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	73.6	85.6	93.6	96.6	98.3	99.0	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 700	73.6	85.6	93.6	96.6	98.3	99.0	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	73.6	85.6	93.7	96.7	98.4	99.1	99.3	99.4	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	73.6	85.6	93.7	96.8	98.7	99.3	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	73.6	85.6	93.7	96.8	98.7	99.3	99.6	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	73.6	85.6	93.7	96.8	98.7	99.3	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	73.6	85.6	93.7	96.8	98.7	99.3	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	73.6	85.6	93.7	96.8	98.7	99.3	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	73.6	85.6	93.7	96.8	98.7	99.3	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.8	56.6	61.2	63.2	63.8	63.9	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 20000	59.1	64.6	69.4	71.6	72.1	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 18000	59.1	64.6	69.4	71.6	72.1	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 16000	59.1	64.6	69.4	71.6	72.1	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 14000	59.4	65.1	70.1	72.2	72.8	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 12000	59.6	65.2	70.3	72.4	73.0	73.2	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 10000	62.0	67.8	73.0	75.3	75.9	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 9000	62.3	68.1	73.4	75.8	76.3	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 8000	66.3	72.9	79.1	81.4	82.4	82.7	82.9	82.9	82.	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 7000	67.1	73.7	80.0	82.6	83.6	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 6000	67.1	73.7	80.2	82.8	83.8	84.0	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
GE 5000	68.0	74.7	81.6	84.1	85.1	85.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 4500	68.2	74.9	81.8	84.3	85.3	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 4000	70.2	77.1	84.3	87.1	88.1	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 3500	70.4	77.4	84.9	87.7	88.8	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.3	89.3	89.3	89.3
GE 3000	71.8	79.6	87.1	90.0	91.3	91.8	92.1	92.1	92.1	92.2	92.2	92.2	92.3	92.3	92.3	92.3
GE 2500	72.2	80.2	88.0	91.0	92.3	92.8	93.1	93.1	93.1	93.2	93.2	93.2	93.3	93.3	93.3	93.3
GE 2000	72.4	80.7	89.0	92.2	93.7	94.1	94.4	94.4	94.4	94.6	94.6	94.6	94.7	94.7	94.7	94.7
GE 1800	72.4	80.8	89.1	92.4	93.9	94.3	94.7	94.7	94.7	94.8	94.8	94.8	94.9	94.9	94.9	94.9
GE 1500	72.8	81.3	89.8	93.1	94.7	95.1	95.4	95.4	95.4	95.6	95.6	95.6	95.7	95.7	95.7	95.7
GE 1200	73.2	81.8	90.4	94.1	95.9	96.6	96.9	96.9	96.9	97.0	97.0	97.0	97.1	97.1	97.1	97.1
GE 1000	73.6	82.4	91.1	95.0	96.8	97.4	97.8	97.8	97.8	97.9	97.9	97.9	98.0	98.0	98.0	98.0
GE 900	73.6	82.4	91.1	95.0	96.9	97.6	97.9	97.9	97.9	98.0	98.0	98.0	98.1	98.1	98.1	98.1
GE 800	73.7	82.6	91.2	95.2	97.3	98.0	98.3	98.3	98.3	98.4	98.4	98.4	98.6	98.6	98.6	98.6
GE 700	73.7	82.6	91.2	95.3	97.4	98.3	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9	98.9	98.9
GE 600	73.9	82.8	91.4	95.6	97.7	98.6	98.9	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2
GE 500	74.0	82.9	91.6	95.7	97.8	98.7	99.0	99.2	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6
GE 400	74.0	82.9	91.6	95.8	97.9	98.9	99.3	99.6	99.7	99.8	99.8	99.8	99.9	99.9	99.9	99.9
GE 300	74.0	82.9	91.6	95.8	97.9	98.9	99.3	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 200	74.0	82.9	91.6	95.8	97.9	98.9	99.3	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	74.0	82.9	91.6	95.8	97.9	98.9	99.3	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	74.0	82.9	91.6	95.8	97.9	98.9	99.3	99.7	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.2	55.4	58.0	59.3	60.9	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
GE 20000	58.2	63.2	66.3	68.4	70.0	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 18000	58.2	63.2	66.3	68.4	70.0	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 16000	58.2	63.2	66.3	68.4	70.0	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 14000	58.6	63.9	67.1	69.2	70.8	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
GE 12000	58.8	64.1	67.6	69.7	71.2	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 10000	61.7	67.4	71.1	73.6	75.1	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
GE 9000	62.0	67.8	71.4	73.9	75.4	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
GE 8000	65.4	72.6	76.8	79.6	81.2	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 7000	66.4	73.8	78.0	80.8	82.4	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 6000	66.4	73.8	78.0	80.8	82.4	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 5000	67.7	75.2	79.7	82.4	84.1	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 4500	68.1	75.7	80.1	82.9	84.6	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
GE 4000	69.9	77.4	81.9	84.8	86.6	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
GE 3500	69.9	77.7	82.1	85.0	86.8	87.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 3000	72.2	80.4	85.1	88.3	90.6	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 2500	73.2	81.6	86.2	89.6	92.2	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 2000	73.4	81.9	86.7	90.3	93.1	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1800	73.4	81.9	86.7	90.3	93.1	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1500	73.6	82.1	87.3	91.0	93.8	94.4	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1200	74.1	82.8	88.1	92.3	95.3	96.0	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 1000	74.6	83.2	88.8	93.1	96.3	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
GE 900	74.7	83.3	88.9	93.3	96.8	97.4	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 800	74.7	83.3	89.0	93.6	97.1	97.9	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	74.9	83.6	89.6	94.1	97.7	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 600	74.9	83.6	89.6	94.2	97.8	98.7	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 500	74.9	83.6	89.8	94.4	98.1	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 400	74.9	83.6	89.9	94.6	98.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	74.9	83.6	89.9	94.6	98.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	74.9	83.6	89.9	94.6	98.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	74.9	83.6	89.9	94.6	98.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	74.9	83.6	89.9	94.6	98.4	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.6	59.0	60.6	62.0	63.2	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 20000	59.6	65.3	67.1	68.8	70.0	7.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 18000	59.6	65.3	67.1	68.8	70.0	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 16000	59.6	65.3	67.1	68.8	70.0	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 14000	59.8	65.8	67.6	69.2	70.4	71.0	71.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.
GE 12000	60.1	66.6	68.3	70.0	71.2	71.8	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 10000	63.0	69.8	71.6	73.2	74.4	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 9000	63.4	70.2	72.0	73.7	74.9	75.4	75.4	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 8000	67.7	74.9	76.8	78.6	79.8	80.4	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
GE 7000	68.8	76.0	77.9	79.7	80.9	81.6	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 6000	68.8	76.0	78.1	79.9	81.1	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
GE 5000	70.2	77.7	80.1	81.9	83.1	83.8	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 4500	70.7	78.1	80.6	82.3	83.6	84.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 4000	72.2	79.8	82.2	84.0	85.3	86.0	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
GE 3500	72.6	80.1	82.6	84.4	85.8	86.4	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
GE 3000	74.6	82.4	85.0	87.1	88.7	89.3	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2500	75.4	83.4	86.1	88.2	90.0	90.7	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 2000	76.1	84.1	87.0	89.6	91.3	92.0	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	76.2	84.2	87.1	89.7	91.4	92.1	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
GE 1500	76.8	85.0	88.0	90.7	92.7	93.3	93.4	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1200	78.1	86.9	90.1	93.0	95.1	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 1000	78.3	87.3	90.6	93.6	95.7	96.3	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 900	78.3	87.3	90.6	93.6	95.7	96.3	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
GE 800	78.4	87.4	90.7	93.7	95.8	96.4	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 700	78.7	87.7	90.9	94.3	96.7	97.3	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 600	78.7	87.7	90.9	94.3	96.7	97.4	97.8	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 500	78.7	87.7	90.9	94.6	96.9	97.7	98.2	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 400	78.7	87.8	91.0	94.7	97.1	98.1	98.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	78.7	87.8	91.0	94.7	97.1	98.1	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	78.7	87.8	91.0	94.7	97.1	98.1	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	78.7	87.8	91.0	94.7	97.1	98.1	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	78.7	87.8	91.0	94.7	97.1	98.1	99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.9	53.7	57.4	59.2	60.5	60.8	61.0	61.3	61.3	61.4	61.5	61.5	61.5	61.5	61.6	61.6
GE 20000	52.8	59.5	63.8	65.9	67.4	67.8	68.0	68.2	68.3	68.4	68.4	68.4	68.5	68.5	68.6	68.6
GE 18000	52.8	59.5	63.8	66.0	67.4	67.8	68.0	68.3	68.3	68.4	68.5	68.5	68.6	68.6	68.6	68.6
GE 16000	52.8	59.5	63.8	66.0	67.4	67.8	68.0	68.3	68.3	68.4	68.5	68.5	68.6	68.6	68.6	68.6
GE 14000	53.1	59.9	64.3	66.4	67.9	68.3	68.5	68.7	68.7	68.9	68.9	68.9	69.0	69.0	69.0	69.1
GE 12000	53.3	60.3	64.7	66.9	68.4	68.8	69.0	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.6
GE 10000	56.1	63.7	68.4	70.7	72.2	72.6	72.8	73.0	73.0	73.2	73.2	73.2	73.3	73.3	73.3	73.4
GE 9000	56.3	64.0	68.8	71.1	72.6	72.9	73.2	73.4	73.4	73.6	73.6	73.6	73.7	73.7	73.7	73.8
GE 8000	60.9	69.4	74.8	77.4	79.0	79.4	79.6	79.9	79.9	80.1	80.1	80.1	80.2	80.2	80.2	80.3
GE 7000	61.9	70.5	76.0	78.7	80.3	80.8	81.0	81.3	81.3	81.4	81.5	81.5	81.6	81.6	81.6	81.6
GE 6000	62.0	70.7	76.2	79.0	80.6	81.1	81.3	81.5	81.6	81.7	81.8	81.8	81.8	81.8	81.9	81.9
GE 5000	63.2	71.9	77.6	80.4	82.0	82.5	82.7	83.0	83.0	83.2	83.2	83.2	83.3	83.3	83.3	83.3
GE 4500	63.6	72.3	78.0	80.8	82.5	82.9	83.1	83.4	83.4	83.6	83.6	83.6	83.7	83.7	83.7	83.8
GE 4000	65.1	74.1	79.9	82.9	84.5	85.0	85.3	85.6	85.6	85.8	85.8	85.8	85.9	85.9	85.9	85.9
GE 3500	65.4	74.5	80.4	83.3	85.1	85.6	85.8	86.1	86.2	86.3	86.4	86.4	86.5	86.5	86.5	86.5
GE 3000	67.5	77.0	83.1	86.3	88.1	88.7	88.9	89.3	89.3	89.4	89.5	89.5	89.6	89.6	89.6	89.6
GE 2500	68.3	78.0	84.3	87.4	89.4	89.9	90.2	90.5	90.5	90.7	90.8	90.8	90.8	90.8	90.9	90.9
GE 2000	69.1	79.2	85.6	89.0	91.1	91.7	92.0	92.3	92.3	92.5	92.6	92.6	92.7	92.7	92.7	92.7
GE 1800	69.2	79.3	85.7	89.1	91.2	91.8	92.1	92.4	92.4	92.6	92.7	92.7	92.8	92.8	92.8	92.8
GE 1500	69.8	80.1	86.7	90.2	92.4	93.0	93.4	93.7	93.7	93.9	93.9	93.9	94.0	94.0	94.1	94.1
GE 1200	70.8	81.5	88.3	92.2	94.5	95.3	95.6	95.9	95.9	96.1	96.2	96.2	96.3	96.3	96.3	96.3
GE 1000	71.1	82.0	88.8	92.9	95.3	96.0	96.4	96.7	96.7	96.9	97.0	97.0	97.1	97.1	97.1	97.1
GE 900	71.1	82.1	89.0	93.1	95.6	96.3	96.7	97.1	97.1	97.3	97.3	97.3	97.4	97.4	97.5	97.5
GE 800	71.3	82.3	89.3	93.4	96.0	96.7	97.1	97.5	97.5	97.7	97.8	97.8	97.9	97.9	97.9	97.9
GE 700	71.4	82.5	89.6	93.8	96.5	97.3	97.7	98.1	98.2	98.3	98.4	98.4	98.5	98.5	98.5	98.5
GE 600	71.5	82.5	89.7	94.0	96.6	97.5	97.9	98.4	98.4	98.6	98.7	98.7	98.8	98.8	98.8	98.8
GE 500	71.5	82.6	89.8	94.1	96.9	97.8	98.3	98.8	98.8	99.0	99.1	99.1	99.2	99.2	99.2	99.2
GE 400	71.6	82.7	89.9	94.2	97.0	98.0	98.6	99.1	99.2	99.4	99.4	99.4	99.5	99.5	99.6	99.6
GE 300	71.6	82.7	89.9	94.2	97.1	98.0	98.7	99.3	99.4	99.6	99.6	99.6	99.8	99.8	99.8	99.8
GE 200	71.6	82.7	89.9	94.2	97.1	98.0	98.7	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0
GE 100	71.6	82.7	89.9	94.2	97.1	98.0	98.7	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0
GE 000	71.6	82.7	89.9	94.2	97.1	98.0	98.7	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	G 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.4	59.0	60.9	61.6	62.7	63.0	63.4	63.7	63.7	63.8	64.0	64.0	64.2	64.2	64.4	64.6
GE 20000	59.0	62.8	64.7	65.5	66.6	66.9	67.3	67.5	67.5	67.6	67.8	67.8	68.1	68.1	68.3	68.5
GE 18000	59.0	62.8	64.7	65.5	66.6	66.9	67.3	67.5	67.5	67.6	67.8	67.8	68.1	68.1	68.3	68.5
GE 16000	59.0	62.8	64.7	65.5	66.6	66.9	67.3	67.5	67.5	67.6	67.8	67.8	68.1	68.1	68.3	68.5
GE 14000	59.5	63.2	65.4	66.1	67.2	67.5	68.0	68.2	68.2	68.3	68.5	68.5	68.7	68.7	68.9	69.1
GE 12000	59.7	63.4	65.6	66.3	67.4	67.7	68.2	68.4	68.4	68.5	68.7	68.7	68.9	68.9	69.1	69.4
GE 10000	62.0	66.0	68.5	69.4	70.4	70.8	71.2	71.4	71.4	71.5	71.7	71.7	71.9	71.9	72.2	72.4
GE 9000	62.0	66.0	68.5	69.4	70.4	70.8	71.2	71.4	71.4	71.5	71.7	71.7	71.9	71.9	72.2	72.4
GE 8000	66.1	70.2	72.7	73.9	74.9	75.3	75.7	75.9	75.9	76.0	76.2	76.2	76.5	76.5	76.7	76.9
GE 7000	66.7	70.8	73.2	74.4	75.5	75.8	76.2	76.5	76.5	76.6	76.8	76.8	77.0	77.0	77.2	77.4
GE 6000	67.0	71.1	73.8	74.9	76.0	76.3	76.8	77.0	77.0	77.1	77.3	77.3	77.5	77.5	77.7	78.0
GE 5000	68.2	72.4	75.1	76.6	77.8	78.2	78.6	78.8	78.8	78.9	79.1	79.1	79.4	79.4	79.6	79.8
GE 4500	68.3	72.5	75.2	76.7	78.0	78.3	78.7	78.9	78.9	79.0	79.2	79.2	79.5	79.5	79.7	79.9
GE 4000	71.0	75.3	78.0	79.6	80.9	81.2	81.6	81.8	81.8	81.9	82.2	82.2	82.4	82.4	82.6	82.8
GE 3500	71.9	76.2	78.9	80.5	81.8	82.2	82.6	82.8	82.8	82.9	83.1	83.1	83.3	83.3	83.5	83.8
GE 3000	73.3	78.2	81.0	82.7	84.2	84.5	84.9	85.2	85.2	85.3	85.5	85.5	85.7	85.7	85.9	86.1
GE 2500	74.5	79.4	82.2	83.9	85.5	85.8	86.2	86.5	86.5	86.6	86.8	86.8	87.0	87.0	87.2	87.4
GE 2000	75.6	80.6	83.7	85.4	87.3	87.7	88.2	88.4	88.4	88.5	88.7	88.7	88.9	88.9	89.1	89.4
GE 1800	75.7	80.8	83.9	85.6	87.5	88.0	88.4	88.6	88.6	88.7	88.9	88.9	89.1	89.1	89.4	89.6
GE 1500	76.9	82.0	85.4	87.1	89.1	89.7	90.1	90.3	90.3	90.4	90.6	90.6	90.9	90.9	91.1	91.3
GE 1200	78.0	83.5	87.3	89.0	91.1	91.9	92.4	92.6	92.6	92.7	92.9	92.9	93.1	93.1	93.3	93.5
GE 1000	78.8	84.5	88.4	90.1	92.5	93.5	94.0	94.2	94.2	94.3	94.5	94.5	94.7	94.7	94.9	95.2
GE 900	78.8	84.8	88.7	90.4	92.8	93.9	94.3	94.5	94.5	94.6	94.8	94.8	95.1	95.1	95.3	95.5
GE 800	79.2	85.4	89.4	91.2	93.7	94.7	95.2	95.4	95.4	95.5	95.7	95.7	95.9	95.9	96.1	96.3
GE 700	79.5	85.6	89.6	91.4	94.1	95.2	95.7	95.9	95.9	96.0	96.2	96.2	96.5	96.5	96.7	96.9
GE 600	79.5	85.6	89.8	91.8	94.5	95.7	96.2	96.5	96.5	96.6	96.8	96.8	97.0	97.0	97.2	97.4
GE 500	79.5	85.6	89.8	91.9	94.8	96.0	96.6	96.8	96.8	96.9	97.1	97.1	97.3	97.3	97.5	97.7
GE 400	79.5	85.6	89.9	92.2	95.2	96.3	97.2	97.4	97.4	97.6	97.8	97.8	98.1	98.1	98.3	98.5
GE 300	79.5	85.6	89.9	92.2	95.5	96.7	97.7	98.1	98.1	98.5	98.7	98.7	98.9	98.9	99.1	99.4
GE 200	79.5	85.6	89.9	92.2	95.6	96.9	98.0	98.3	98.3	98.7	98.9	98.9	99.1	99.1	99.4	99.6
GE 100	79.5	85.6	89.9	92.2	95.6	96.9	98.0	98.3	98.3	98.7	98.9	98.9	99.1	99.1	99.5	99.7
GE 000	79.5	85.6	89.9	92.2	95.6	96.9	98.0	98.3	98.3	98.7	98.9	98.9	99.1	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.6	56.2	58.1	59.7	61.5	62.[illegible]	62.2	62.2	62.2	62.4	62.8	62.8	62.9	63.0	63.1	63.5
GE 20000	53.4	58.6	60.5	62.2	64.0	64.5	64.6	64.6	64.6	64.8	65.3	65.3	65.4	65.5	65.6	66.[illegible]
GE 18000	53.4	58.6	60.5	62.2	64.0	64.5	64.6	64.6	64.6	64.8	65.3	65.3	65.4	65.5	65.6	66.0
GE 16000	53.4	58.6	60.5	62.2	64.0	64.5	64.6	64.6	64.6	64.8	65.3	65.3	65.4	65.5	65.6	66.0
GE 14000	53.9	59.0	61.0	62.6	64.4	64.9	65.1	65.1	65.1	65.3	65.7	65.7	65.8	65.9	66.0	66.[illegible]
GE 12000	54.9	60.1	62.0	63.7	65.5	66.0	66.1	66.1	66.1	66.3	66.8	66.8	66.9	67.0	67.1	67.5
GE 10000	56.6	62.0	64.0	65.7	67.5	68.1	68.2	68.2	68.2	68.4	68.8	68.8	68.9	69.0	69.1	69.6
GE 9000	56.7	62.2	64.1	65.8	67.6	68.2	68.3	68.3	68.3	68.5	68.9	68.9	69.0	69.1	69.2	69.7
GE 8000	60.9	67.0	69.0	70.8	72.6	73.2	73.3	73.3	73.3	73.5	74.0	74.0	74.1	74.2	74.3	74.7
GE 7000	61.5	67.6	69.7	71.4	73.2	73.9	74.0	74.0	74.0	74.2	74.6	74.6	74.7	74.8	74.9	75.4
GE 6000	61.6	67.7	69.8	71.5	73.4	74.1	74.2	74.2	74.2	74.4	74.8	74.8	74.9	75.1	75.2	75.6
GE 5000	62.7	68.8	70.9	72.6	74.5	75.2	75.3	75.3	75.3	75.5	75.9	75.9	76.0	76.1	76.2	76.7
GE 4500	63.0	69.1	71.2	72.9	74.8	75.5	75.6	75.6	75.6	75.8	76.2	76.2	76.3	76.5	76.6	77.0
GE 4000	64.7	71.1	73.2	74.9	76.9	77.5	77.6	77.6	77.6	77.8	78.3	78.3	78.4	78.5	78.6	79.0
GE 3500	66.3	72.7	74.8	76.6	78.6	79.2	79.4	79.4	79.4	79.6	80.0	80.0	80.1	80.2	80.3	80.8
GE 3000	68.2	74.7	77.1	79.2	81.4	82.0	82.2	82.2	82.2	82.4	82.8	82.8	82.9	83.0	83.1	83.5
GE 2500	68.7	75.5	78.0	80.1	82.3	82.9	83.0	83.0	83.0	83.2	83.7	83.7	83.8	83.9	84.0	84.4
GE 2000	70.4	77.6	80.3	82.6	84.9	85.7	85.8	85.8	85.8	86.0	86.5	86.5	86.6	86.7	86.8	87.2
GE 1800	70.4	77.8	80.5	82.8	85.2	85.9	86.0	86.0	86.0	86.2	86.7	86.7	86.8	86.9	87.0	87.4
GE 1500	71.2	78.7	81.4	83.7	86.0	86.9	87.0	87.0	87.0	87.2	87.6	87.6	87.7	87.8	88.0	88.4
GE 1200	72.7	80.4	83.1	85.6	88.1	[illegible].9	89.0	89.0	89.0	89.2	89.7	89.7	89.8	89.9	90.0	90.4
GE 1000	73.4	81.3	84.1	86.6	89.0	89.9	90.0	90.0	90.0	90.2	90.6	90.6	90.8	90.9	91.0	91.4
GE 900	73.9	81.7	84.5	87.1	89.6	90.4	90.5	90.5	90.5	90.8	91.2	91.2	91.3	91.4	91.5	91.9
GE 800	74.1	82.6	85.5	88.2	90.8	91.8	91.9	91.9	91.9	92.2	92.6	92.6	92.7	92.8	92.9	93.3
GE 700	74.2	82.7	85.9	88.6	91.2	92.4	92.6	92.6	92.6	92.8	93.2	93.2	93.3	93.4	93.5	94.0
GE 600	74.2	82.7	85.9	89.0	91.6	92.8	93.1	93.1	93.1	93.3	93.8	93.8	93.9	94.0	94.1	94.5
GE 500	74.2	82.7	86.0	89.1	91.8	93.0	93.5	93.7	93.7	93.9	94.3	94.3	94.4	94.5	94.7	95.2
GE 400	74.2	82.7	86.2	89.8	92.7	93.9	94.6	95.1	95.1	95.3	95.7	95.7	95.9	96.0	96.2	96.7
GE 300	74.2	82.7	86.2	89.9	93.0	94.3	95.7	96.2	96.2	96.7	97.1	97.1	97.3	97.4	97.6	98.1
GE 200	74.2	82.7	86.2	89.9	93.0	94.3	95.7	96.2	96.2	96.7	97.1	97.1	97.3	97.4	97.6	98.3
GE 100	74.2	82.7	86.2	89.9	93.0	94.3	95.7	96.3	96.3	96.8	97.4	97.4	97.6	97.7	98.0	99.1
GE 000	74.2	82.7	86.2	89.9	93.0	94.3	95.7	96.3	96.3	96.8	97.4	97.4	97.6	97.7	98.0	100.

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	40.4	45.9	49.8	53.5	54.9	55.3	56.0	56.2	56.2	56.6	56.8	56.8	57.1	57.1	57.2	58.4
GE 20000	43.1	48.9	52.8	56.9	58.6	59.0	59.8	60.0	60.0	60.3	60.5	60.5	60.9	60.9	61.0	62.2
GE 18000	43.1	48.9	52.8	56.9	58.6	59.0	59.8	60.0	60.0	60.3	60.5	60.5	60.9	60.9	61.0	62.2
GE 16000	43.1	48.9	52.8	56.9	58.6	59.0	59.8	60.0	60.0	60.3	60.5	60.5	60.9	60.9	61.0	62.2
GE 14000	43.2	49.0	53.0	57.1	58.8	59.2	60.0	60.2	60.2	60.5	60.8	60.8	61.1	61.1	61.2	62.4
GE 12000	44.4	50.3	54.4	58.5	60.2	60.6	61.4	61.6	61.6	61.9	62.2	62.2	62.5	62.5	62.6	63.8
GE 10000	46.7	53.1	57.6	61.7	63.4	63.9	64.6	64.8	64.8	65.2	65.4	65.4	65.7	65.7	65.8	67.0
GE 9000	47.2	53.7	58.2	62.4	64.1	64.5	65.3	65.5	65.5	65.8	66.0	66.0	66.3	66.3	66.5	67.6
GE 8000	51.8	58.6	63.5	68.0	69.8	70.3	71.1	71.3	71.3	71.7	71.9	71.9	72.3	72.3	72.4	73.5
GE 7000	53.2	60.0	65.1	69.5	71.3	71.8	72.6	72.8	72.8	73.2	73.4	73.4	73.8	73.8	73.9	75.1
GE 6000	53.3	60.2	65.4	69.9	71.7	72.3	73.0	73.2	73.2	73.8	74.0	74.0	74.3	74.3	74.4	75.6
GE 5000	54.8	62.2	67.5	72.0	74.0	74.5	75.3	75.5	75.5	76.0	76.2	76.2	76.6	76.6	76.7	77.8
GE 4500	55.2	62.5	67.8	72.4	74.3	74.8	75.6	75.8	75.8	76.3	76.6	76.6	76.9	76.9	77.0	78.2
GE 4000	56.6	64.3	70.1	74.8	76.8	77.3	78.1	78.3	78.3	78.8	79.0	79.0	79.4	79.4	79.5	80.6
GE 3500	57.6	65.4	71.3	76.0	78.1	78.6	79.4	79.6	79.6	80.1	80.3	80.3	80.6	80.6	80.8	81.9
GE 3000	58.4	66.3	72.5	77.7	80.1	80.6	81.4	81.6	81.6	82.2	82.4	82.4	82.7	82.7	82.8	84.0
GE 2500	59.0	67.0	73.2	78.7	81.1	81.6	82.4	82.6	82.6	83.1	83.3	83.3	83.7	83.7	83.8	84.9
GE 2000	61.3	69.7	76.0	82.2	84.5	85.1	85.9	86.1	86.1	86.7	86.9	86.9	87.2	87.2	87.3	88.5
GE 1800	61.3	69.7	76.0	82.4	84.7	85.3	86.1	86.3	86.3	86.9	87.1	87.1	87.4	87.4	87.5	88.7
GE 1500	61.5	70.0	76.5	82.8	85.2	85.7	86.6	86.8	86.8	87.3	87.5	87.5	87.8	87.8	88.0	89.1
GE 1200	62.0	70.6	77.3	83.9	86.5	87.0	87.8	88.1	88.1	88.6	88.8	88.8	89.1	89.1	89.2	90.4
GE 1000	62.8	71.5	78.3	84.8	87.5	88.2	89.0	89.2	89.2	89.8	90.0	90.0	90.3	90.3	90.4	91.6
GE 900	63.4	72.2	79.1	85.8	88.8	89.6	90.5	90.8	90.8	91.3	91.5	91.5	91.8	91.8	91.9	93.1
GE 800	63.8	72.9	80.1	86.8	89.8	90.8	91.7	91.9	91.9	92.6	92.8	92.8	93.1	93.1	93.2	94.4
GE 700	63.8	73.0	80.2	87.1	90.2	91.3	92.4	92.6	92.6	93.3	93.5	93.5	93.9	93.9	94.0	95.2
GE 600	63.8	73.1	80.5	87.4	90.6	91.7	92.8	93.1	93.1	93.9	94.1	94.1	94.4	94.4	94.5	95.7
GE 500	63.8	73.4	81.0	87.8	91.4	92.6	93.7	94.0	94.0	94.7	94.9	94.9	95.3	95.3	95.4	96.6
GE 400	63.8	73.4	81.0	87.8	91.6	92.9	94.1	94.5	94.5	95.3	95.5	95.5	95.8	95.8	95.9	97.1
GE 300	63.8	73.4	81.0	87.8	91.8	93.2	94.9	95.4	95.4	96.1	96.3	96.3	96.7	96.7	96.8	98.0
GE 200	63.8	73.4	81.0	87.8	91.8	93.2	95.1	95.6	95.6	96.5	96.9	97.1	97.4	97.4	97.6	99.1
GE 100	63.8	73.4	81.0	87.8	91.8	93.2	95.1	95.6	95.6	96.5	97.0	97.2	97.6	98.0	98.3	99.8
GE 000	63.8	73.4	81.0	87.8	91.8	93.2	95.1	95.6	95.6	96.5	97.0	97.2	97.6	98.0	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.6	55.6	57.6	58.2	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 20000	55.7	60.1	62.5	63.0	63.5	63.8	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 18000	55.8	60.2	62.6	63.1	63.7	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 16000	55.8	60.2	62.6	63.1	63.7	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 14000	56.1	60.8	63.1	63.7	64.2	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 12000	56.8	61.4	64.1	64.7	65.3	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 10000	59.4	64.4	67.4	68.1	68.6	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 9000	60.7	65.1	68.1	68.7	69.2	69.5	69.5	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 8000	65.6	71.7	74.8	75.5	76.0	76.2	76.3	76.3	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 7000	66.8	72.9	76.0	76.7	77.2	77.4	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 6000	67.6	73.1	76.2	76.9	77.4	77.6	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 5000	68.4	74.7	77.8	78.6	79.4	79.6	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 4500	68.9	75.3	78.4	79.1	79.9	80.1	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 4000	70.9	76.8	80.1	80.9	81.6	81.8	81.9	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 3500	70.5	77.5	80.9	81.6	82.4	82.6	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 3000	71.8	79.6	83.2	84.1	85.2	85.4	85.5	85.5	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 2500	72.7	80.5	84.6	85.5	86.6	86.8	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 2000	74.5	82.6	86.7	87.5	88.6	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1800	74.8	82.9	87.0	88.0	89.0	89.4	89.5	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1500	75.8	84.0	88.6	89.9	91.0	91.3	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1200	76.8	85.3	89.9	91.7	93.1	93.5	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.0	94.0	94.0
GE 1000	77.0	85.8	90.9	92.8	94.5	94.9	95.2	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 900	77.1	86.0	91.3	93.5	95.3	95.7	95.9	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 800	77.1	86.0	91.4	93.8	95.6	96.2	96.5	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 700	77.1	86.2	91.8	94.2	96.1	96.9	97.1	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 600	77.4	86.7	92.5	94.8	96.9	97.6	98.0	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 500	77.5	86.9	92.7	95.1	97.2	98.0	98.3	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 400	77.5	86.9	92.7	95.1	97.3	98.2	98.7	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	77.5	86.9	92.7	95.2	97.4	98.4	99.0	99.5	99.5	99.8	99.8	99.8	99.8	99.9	99.9	99.9
GE 200	77.5	86.9	92.7	95.2	97.4	98.4	99.0	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0	100.0
GE 100	77.5	86.9	9.7	95.2	97.4	98.4	99.0	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0	100.0
GE 000	77.5	86.9	92.7	95.2	97.4	98.4	99.0	99.5	99.5	99.8	99.8	99.8	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

D 2 - 85

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LAGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.1	58.5	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 20000	62.0	65.9	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 18000	62.0	65.9	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 16000	62.2	66.0	67.5	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 14000	62.4	66.5	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 12000	63.5	67.7	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
GE 10000	66.6	70.8	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 9000	67.0	71.2	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
GE 8000	71.8	76.3	78.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
GE 7000	72.8	77.3	79.0	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 6000	72.9	77.4	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 5000	73.9	78.4	80.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4500	73.9	78.4	80.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 4000	75.9	80.5	82.6	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 3500	76.7	81.4	83.4	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3000	79.8	84.8	86.9	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 2500	81.0	86.2	88.5	89.5	89.7	89.8	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 2000	82.2	87.4	89.7	90.6	90.9	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 1800	82.5	88.0	90.2	91.3	91.5	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 1500	83.9	89.6	92.2	93.4	93.7	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1200	84.6	90.3	92.9	94.4	94.7	95.2	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 1000	85.2	91.0	93.7	95.3	95.7	96.2	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 900	85.3	91.2	94.1	95.7	96.1	96.8	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 800	85.4	91.3	94.2	95.8	96.3	97.0	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 700	85.4	91.4	94.4	96.0	96.7	97.4	97.6	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 600	85.4	91.4	94.5	96.3	97.0	97.8	98.2	98.5	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	85.4	91.4	94.5	96.3	97.0	98.0	98.3	98.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	85.4	91.4	94.5	96.3	97.0	98.0	98.5	99.0	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	85.4	91.4	94.5	96.3	97.0	98.0	98.6	99.1	99.4	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	85.4	91.4	94.5	96.3	97.0	98.0	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	85.4	91.4	94.5	96.3	97.0	98.0	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	85.4	91.4	94.5	96.3	97.0	98.0	98.6	99.1	99.4	99.9	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.0	59.2	60.0	60.4	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 20000	62.7	65.9	66.9	67.3	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 18000	63.5	66.8	67.7	68.2	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
GE 16000	63.5	66.8	67.7	68.2	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
GE 14000	63.9	67.1	68.1	68.5	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE 12000	64.5	68.2	69.1	69.6	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
GE 10000	67.0	70.8	71.7	72.2	72.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 9000	67.4	71.2	72.2	72.6	72.8	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
GE 8000	71.7	76.1	77.1	78.0	78.2	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 7000	72.9	77.3	78.3	79.1	79.4	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 6000	73.0	77.4	78.4	79.2	79.5	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
GE 5000	74.2	78.6	79.6	80.4	80.6	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 4500	74.9	79.4	80.3	81.2	81.4	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 4000	78.2	82.6	83.5	84.4	84.7	84.8	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 3500	78.4	82.9	83.9	84.7	85.1	85.2	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
GE 3000	81.2	86.0	87.0	88.0	88.3	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 2500	81.6	86.6	87.5	88.7	89.1	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 2000	82.8	88.0	89.1	90.4	91.1	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 1800	82.8	88.0	89.2	90.5	91.2	91.3	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	83.3	88.5	90.1	91.5	92.3	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1200	83.3	88.9	90.8	92.2	93.4	93.9	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1000	83.3	88.9	90.8	92.2	93.9	94.4	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 900	83.3	89.0	91.0	92.7	94.8	95.4	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 800	83.3	89.1	91.3	93.3	95.9	96.5	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 700	83.5	89.5	91.9	94.1	97.0	97.6	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 600	83.5	89.5	91.9	94.2	97.1	97.8	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 500	83.5	89.5	92.0	94.3	97.4	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 400	83.5	89.5	92.0	94.3	97.4	98.3	98.8	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 300	83.5	89.5	92.0	94.3	97.4	98.3	98.9	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	83.5	89.5	92.0	94.3	97.4	98.3	98.9	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	83.5	89.5	92.0	94.3	97.4	98.3	98.9	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	83.5	89.5	92.0	94.3	97.4	98.3	98.9	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	58.0	61.0	62.1	62.6	62.8	62.8	62.8	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1
GE 20000	62.8	66.4	67.6	68.1	68.3	68.3	68.3	68.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6
GE 18000	62.9	66.5	67.7	68.2	68.4	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.8
GE 16000	62.9	66.5	67.7	68.2	68.4	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.8
GE 14000	63.1	66.9	68.1	68.6	68.9	68.9	68.9	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.2
GE 12000	64.1	68.0	69.2	69.7	69.9	69.9	69.9	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.3
GE 10000	66.8	70.9	72.1	72.6	72.8	72.8	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.2
GE 9000	67.5	71.6	72.7	73.3	73.5	73.5	73.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8
GE 8000	71.3	75.5	76.8	77.8	78.0	78.1	78.2	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.6
GE 7000	71.6	75.8	77.0	78.0	78.2	78.3	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.8
GE 6000	71.8	76.3	77.6	78.6	78.8	78.9	79.0	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.3
GE 5000	74.1	78.7	80.0	80.9	81.1	81.3	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.7
GE 4500	74.5	79.0	80.3	81.3	81.5	81.6	81.7	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	82.0
GE 4000	77.9	82.7	83.9	85.0	85.2	85.3	85.6	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9
GE 3500	78.6	83.3	84.6	85.7	86.0	86.1	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.6
GE 3000	81.4	86.3	88.3	89.4	89.9	90.0	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5
GE 2500	82.0	87.0	88.9	90.1	90.5	90.6	90.8	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.2
GE 2000	83.2	88.1	90.1	91.3	91.7	91.8	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3
GE 1800	83.2	88.1	90.1	91.3	91.7	91.8	92.0	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3
GE 1500	83.5	88.7	90.7	92.0	92.6	92.7	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.2
GE 1200	83.9	89.3	91.6	93.1	93.6	93.8	94.0	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3
GE 1000	84.2	89.5	91.8	93.6	94.3	94.4	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.9
GE 900	84.4	90.0	92.2	94.1	94.9	95.0	95.3	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.6
GE 800	84.7	90.4	92.7	94.6	95.8	96.0	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.9
GE 700	84.7	90.7	93.3	95.3	96.9	97.1	97.6	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	98.0
GE 600	84.7	90.7	93.3	95.4	97.3	97.5	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.5
GE 500	84.7	90.9	93.5	95.6	97.5	97.8	98.5	98.6	98.8	99.1	99.1	99.1	99.1	99.1	99.1	99.2
GE 400	84.7	90.9	93.5	95.6	97.6	98.0	98.8	98.9	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.6
GE 300	84.7	90.9	93.5	95.6	98.0	98.3	99.1	99.2	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.9
GE 200	84.7	90.9	93.5	95.6	98.0	98.4	99.2	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	84.7	90.9	93.5	95.6	98.0	98.4	99.2	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0
GE 000	84.7	90.9	93.5	95.6	98.0	98.4	99.2	99.4	99.6	99.9	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 928

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	56.3	59.3	61.3	62.0	62.2	62.2	62.4	62.4	62.4	62.5	62.6	62.6	62.9	62.9	62.9	63.[illegible]
GE 20000	60.9	64.1	66.2	67.0	67.2	67.2	67.3	67.3	67.3	67.4	67.5	67.5	67.9	67.9	67.9	68.[illegible]
GE 18000	61.2	64.3	66.5	67.2	67.4	67.4	67.5	67.5	67.5	67.6	67.7	67.7	68.1	68.1	68.1	68.3
GE 16000	61.2	64.3	66.5	67.2	67.4	67.4	67.5	67.5	67.5	67.6	67.7	67.7	68.1	68.1	68.1	68.3
GE 14000	61.2	64.4	66.8	67.5	67.7	67.7	67.9	67.9	67.9	68.0	68.1	68.1	68.4	68.4	68.4	68.6
GE 12000	61.9	65.2	67.5	68.3	68.5	68.5	68.6	68.6	68.6	68.7	68.8	68.8	69.1	69.1	69.1	69.4
GE 10000	65.3	69.0	71.4	72.2	72.4	72.4	72.5	72.5	72.5	72.6	72.7	72.7	73.0	73.0	73.0	73.2
GE 9000	65.6	69.4	71.7	72.5	72.7	72.7	72.8	72.8	72.8	72.9	73.0	73.0	73.4	73.4	73.4	73.6
GE 8000	69.1	73.0	75.5	76.9	77.1	77.1	77.2	77.2	77.2	77.3	77.5	77.5	77.8	77.8	77.8	78.0
GE 7000	69.9	73.8	76.3	77.7	77.9	77.9	78.0	78.0	78.0	78.1	78.2	78.2	78.5	78.5	78.5	78.7
GE 6000	70.3	74.2	76.7	78.1	78.3	78.3	78.4	78.4	78.4	78.5	78.6	78.6	79.0	79.0	79.0	79.2
GE 5000	72.5	76.6	79.1	80.5	80.7	80.7	80.8	80.8	80.8	80.9	81.0	81.0	81.3	81.3	81.3	81.6
GE 4500	72.5	76.6	79.1	80.5	80.7	80.7	80.8	80.8	80.8	80.9	81.0	81.0	81.3	81.3	81.3	81.6
GE 4000	75.5	79.6	82.1	83.5	83.7	83.7	83.9	83.9	83.9	84.0	84.1	84.1	84.5	84.5	84.5	84.7
GE 3500	76.1	80.2	82.8	84.3	84.5	84.5	84.8	84.8	84.8	84.9	85.0	85.0	85.3	85.3	85.3	85.5
GE 3000	77.5	81.7	84.4	85.9	86.1	86.1	86.4	86.4	86.4	86.5	86.6	86.6	86.9	86.9	86.9	87.2
GE 2500	78.6	82.8	85.5	87.1	87.3	87.4	87.7	87.7	87.7	87.8	87.9	87.9	88.2	88.2	88.2	88.5
GE 2000	80.0	84.6	87.3	89.1	89.4	89.8	90.1	90.1	90.1	90.2	90.3	90.3	90.6	90.6	90.6	90.8
GE 1800	80.2	84.7	87.5	89.3	89.6	90.0	90.3	90.3	90.3	90.4	90.5	90.5	90.8	90.8	90.8	91.0
GE 1500	80.6	85.3	88.2	90.2	90.5	90.8	91.2	91.2	91.2	91.3	91.4	91.4	91.7	91.7	91.7	91.9
GE 1200	81.6	86.7	89.8	91.9	92.2	92.6	92.9	92.9	92.9	93.0	93.1	93.1	93.4	93.4	93.4	93.6
GE 1000	82.3	87.5	90.7	92.9	93.2	935	93.9	93.9	93.9	94.0	94.1	94.1	94.4	94.4	94.4	94.6
GE 900	82.5	87.8	91.0	93.2	93.5	93.9	94.2	94.3	94.3	94.4	94.5	94.5	94.8	94.8	94.8	95.[illegible]
GE 800	82.6	88.1	91.4	93.7	94.4	94.7	95.1	95.4	95.5	95.6	95.7	95.7	96.0	96.0	96.0	96.[illegible]
GE 700	82.8	88.3	91.7	94.2	94.8	95.3	95.9	96.3	96.4	96.5	96.7	96.7	97.0	97.0	97.0	97.[illegible]
GE 600	82.8	88.3	92.1	94.8	95.5	95.9	96.5	97.0	97.1	97.2	97.3	97.3	97.6	97.6	97.6	97.8
GE 500	83.0	88.6	92.3	95.3	96.4	96.9	97.6	98.3	98.5	98.6	98.7	98.7	99.0	99.0	99.0	99.2
GE 400	83.0	88.6	92.4	95.4	96.5	97.0	97.7	98.4	98.6	98.7	98.8	98.8	99.1	99.1	99.1	99.4
GE 300	83.0	88.6	92.4	95.4	96.7	97.1	97.8	98.5	98.	98.8	98.9	98.9	99.2	99.2	99.2	99.5
GE 200	83.0	88.6	92.4	95.4	97.0	97.4	98.2	98.8	99.0	99.1	99.2	99.2	99.6	99.6	99.6	99.8
GE 100	83.0	88.6	92.4	95.4	97.0	97.4	98.2	98.8	99.0	99.1	99.2	99.2	99.7	99.7	99.7	100.0
GE 0	83.0	88.6	92.4	95.4	97.0	97.4	98.2	98.8	99.0	99.1	99.2	99.2	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 927

0 2 89

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: OCT HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.0	56.9	58.7	59.8	60.4	60.6	60.8	60.8	60.9	61.0	61.1	61.1	61.2	61.2	61.3	61.5
GE 20000	57.5	61.6	63.6	64.7	65.4	65.6	65.8	65.9	65.9	66.0	66.1	66.1	66.2	66.2	66.3	66.6
GE 18000	57.6	61.7	63.7	64.9	65.6	65.8	66.0	66.0	66.1	66.2	66.3	66.3	66.4	66.4	66.5	66.7
GE 16000	57.6	61.8	63.8	64.9	65.6	65.8	66.0	66.0	66.1	66.2	66.3	66.3	66.4	66.4	66.5	66.8
GE 14000	57.9	62.1	64.2	65.3	66.0	66.2	66.4	66.5	66.5	66.6	66.7	66.7	66.8	66.8	66.9	67.2
GE 12000	58.7	63.0	65.2	66.3	67.0	67.2	67.4	67.5	67.5	67.6	67.7	67.7	67.8	67.8	67.9	68.2
GE 10000	61.3	65.9	68.1	69.3	70.0	70.2	70.4	70.5	70.5	70.6	70.7	70.7	70.8	70.9	70.9	71.2
GE 9000	61.7	66.3	68.5	69.7	70.4	70.6	70.8	70.9	70.9	71.0	71.1	71.1	71.2	71.3	71.3	71.6
GE 8000	66.1	71.1	73.4	74.9	75.6	75.9	76.1	76.2	76.2	76.3	76.4	76.4	76.5	76.6	76.6	76.9
GE 7000	66.9	71.9	74.3	75.8	76.5	76.8	77.0	77.0	77.1	77.2	77.3	77.3	77.4	77.4	77.5	77.8
GE 6000	67.1	72.2	74.6	76.1	76.8	77.1	77.3	77.4	77.4	77.5	77.6	77.6	77.8	77.8	77.8	78.1
GE 5000	68.6	73.8	76.2	77.8	78.6	78.8	79.0	79.1	79.1	79.3	79.4	79.4	79.5	79.5	79.6	79.9
GE 4500	68.9	74.1	76.5	78.1	78.9	79.1	79.3	79.4	79.4	79.6	79.7	79.7	79.8	79.8	79.9	80.1
GE 4000	71.2	76.6	79.2	80.8	81.6	81.9	82.1	82.2	82.2	82.3	82.4	82.4	82.6	82.6	82.6	82.9
GE 3500	72.0	77.4	80.1	81.7	82.6	82.8	83.0	83.1	83.1	83.3	83.4	83.4	83.5	83.5	83.6	83.8
GE 3000	73.9	79.7	82.5	84.3	85.4	85.6	85.9	85.9	86.0	86.1	86.2	86.2	86.3	86.4	86.4	86.7
GE 2500	74.8	80.6	83.6	85.4	86.5	86.8	87.0	87.1	87.1	87.3	87.4	87.4	87.5	87.5	87.6	87.8
GE 2000	76.2	82.3	85.4	87.4	88.6	88.9	89.2	89.3	89.3	89.4	89.5	89.5	89.7	89.7	89.7	90.0
GE 1800	76.4	82.5	85.6	87.6	88.8	89.2	89.4	89.5	89.5	89.7	89.8	89.8	89.9	89.9	90.0	90.3
GE 1500	77.1	83.3	86.6	88.8	90.0	90.5	90.7	90.8	90.8	91.0	91.1	91.1	91.2	91.2	91.3	91.5
GE 1200	77.9	84.4	87.8	90.2	91.6	92.1	92.4	92.5	92.5	92.7	92.8	92.8	92.9	92.9	93.0	93.2
GE 1000	78.4	85.0	88.6	91.0	92.6	93.1	93.4	93.5	93.6	93.7	93.8	93.8	93.9	94.0	94.0	94.3
GE 900	78.6	85.3	89.0	91.6	93.2	93.8	94.2	94.3	94.3	94.4	94.6	94.6	94.7	94.7	94.8	95.0
GE 800	78.8	85.7	89.5	92.2	94.0	94.7	95.1	95.3	95.3	95.5	95.6	95.6	95.7	95.7	95.8	96.0
GE 700	78.9	85.9	89.9	92.6	94.6	95.4	95.9	96.1	96.1	96.3	96.4	96.4	96.5	96.5	96.6	96.9
GE 600	78.9	86.0	90.1	93.0	95.1	95.9	96.4	96.7	96.7	96.9	97.0	97.0	97.2	97.2	97.2	97.5
GE 500	78.9	86.1	90.2	93.2	95.5	96.3	96.9	97.3	97.3	97.6	97.7	97.7	97.8	97.9	97.9	98.2
GE 400	78.9	86.1	90.3	93.3	95.7	96.6	97.3	97.7	97.8	98.1	98.3	98.3	98.4	98.4	98.5	98.7
GE 300	78.9	86.1	90.3	93.3	95.8	96.8	97.7	98.2	98.3	98.7	98.8	98.8	99.0	99.0	99.0	99.3
GE 200	78.9	86.1	90.3	93.3	95.9	96.9	97.8	98.3	98.4	98.8	99.0	99.0	99.2	99.2	99.3	99.6
GE 100	78.9	86.1	90.3	93.3	95.9	96.9	97.8	98.3	98.4	98.8	99.0	99.0	99.2	99.3	99.4	99.8
GE 000	78.9	86.1	90.3	93.3	95.9	96.9	97.8	98.3	98.4	98.8	99.0	99.0	99.2	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7435

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	[illegible]
NO CEIL	54.1	56.2	57.0	57.8	58.6	58.8	59.1	59.1	59.1	59.4	59.6	59.6	59.8	59.8	60.0	60.4
GE 20000	56.2	58.7	59.7	60.6	61.3	61.6	61.9	61.9	61.9	62.2	62.3	62.3	62.6	62.6	62.8	63.[illegible]
GE 18000	56.2	58.7	59.7	60.6	61.3	61.6	61.9	61.9	61.9	62.2	62.3	62.3	62.6	62.6	62.8	63.2
GE 16000	56.2	58.7	59.7	60.6	61.3	61.6	61.9	61.9	61.9	62.2	62.3	62.3	62.6	62.6	62.8	63.2
GE 14000	56.2	58.7	59.7	60.6	61.3	61.6	61.9	61.9	61.9	62.2	62.3	62.3	62.6	62.6	62.8	63.[illegible]
GE 12000	57.6	60.0	61.1	62.1	62.9	63.1	63.4	63.4	63.4	63.8	63.9	63.9	64.1	64.1	64.3	64.3
GE 10000	60.4	63.3	64.6	65.6	66.3	66.6	66.9	66.9	66.9	67.2	67.3	67.3	67.6	67.6	67.8	68.2
GE 9000	60.4	63.3	64.6	65.6	66.3	66.6	66.9	66.9	66.9	67.2	67.3	67.3	67.6	67.6	67.8	68.2
GE 8000	64.4	68.0	69.4	70.4	71.2	71.4	71.8	71.8	71.8	72.1	72.2	72.2	72.4	72.4	72.7	73.1
GE 7000	64.7	68.2	69.7	70.7	71.4	71.7	72.1	72.1	72.1	72.4	72.6	72.6	72.8	72.8	73.0	73.4
GE 6000	64.8	68.3	69.8	70.8	71.6	71.8	72.2	72.2	72.2	72.6	72.7	72.7	72.9	72.9	73.1	73.6
GE 5000	66.8	70.6	72.0	73.0	73.8	74.0	74.4	74.4	74.4	74.8	74.9	74.9	75.1	75.1	75.3	75.8
GE 4500	66.8	70.6	72.0	73.0	73.8	74.0	74.4	74.4	74.4	74.8	74.9	74.9	75.1	75.1	75.3	75.8
GE 4000	70.3	74.3	76.0	77.1	78.0	78.2	78.7	78.9	78.9	79.2	79.3	79.3	79.6	79.6	79.8	80.2
GE 3500	71.2	75.3	77.0	78.1	79.0	79.2	79.7	79.9	79.9	80.2	80.3	80.3	80.6	80.6	80.8	81.2
GE 3000	72.9	77.2	79.0	80.1	81.0	81.2	81.7	81.9	81.9	82.2	82.3	82.3	82.6	82.6	82.8	83.2
GE 2500	73.4	77.9	79.8	81.1	82.0	82.2	82.7	82.9	82.9	83.2	83.3	83.3	83.6	83.6	83.8	84.2
GE 2000	74.9	79.6	81.4	82.9	83.9	84.1	84.6	84.8	84.8	85.1	85.2	85.2	85.4	85.4	85.7	86.1
GE 1800	75.1	79.8	81.7	83.1	84.1	84.3	84.8	85.0	85.0	85.3	85.4	85.4	85.7	85.7	85.9	86.3
GE 1500	75.6	80.3	82.2	83.9	85.1	85.3	85.8	86.0	86.0	86.3	86.4	86.4	86.7	86.7	86.9	87.3
GE 1200	76.4	81.2	83.2	85.0	86.2	86.4	86.9	87.1	87.1	87.4	87.6	87.6	87.8	87.8	88.0	88.4
GE 1000	77.2	82.0	84.2	86.1	87.3	87.6	88.0	88.2	88.2	88.6	88.7	88.7	88.9	88.9	89.1	89.6
GE 900	77.3	82.1	84.4	86.4	87.7	87.9	88.3	88.6	88.6	88.9	89.0	89.0	89.2	89.2	89.4	89.9
GE 800	77.9	83.0	85.6	87.9	89.8	90.0	90.4	90.7	90.7	91.0	91.1	91.1	91.3	91.3	91.6	92.0
GE 700	78.7	83.8	86.7	89.2	91.6	91.8	92.2	92.4	92.4	92.8	92.9	92.9	93.1	93.1	93.3	93.8
GE 600	78.7	83.8	86.8	89.4	91.8	92.0	92.4	92.7	92.7	93.1	93.2	93.2	93.4	93.4	93.7	94.1
GE 500	78.7	83.8	86.8	89.4	92.2	92.4	93.0	93.2	93.2	93.7	93.8	93.8	94.0	94.0	94.2	94.7
GE 400	78.7	83.8	86.8	89.7	92.8	93.1	94.4	94.9	94.9	95.7	95.8	95.8	96.0	96.0	96.2	96.7
GE 300	78.7	83.8	86.8	89.8	92.9	93.2	94.7	95.7	95.7	96.6	96.7	96.7	96.9	96.9	97.1	97.7
GE 200	78.7	83.8	86.8	89.8	92.9	93.2	95.2	96.2	96.2	97.1	97.2	97.2	97.4	97.4	97.8	98.7
GE 100	78.7	83.8	86.8	89.8	92.9	93.2	95.2	96.2	96.2	97.1	97.3	97.3	97.7	97.8	98.4	99.7
GE 000	78.7	83.8	86.8	89.8	92.9	93.2	95.2	96.2	96.2	97.1	97.3	97.3	97.8	97.9	98.6	100.0

TOTAL NUMBER OF OBSERVATIONS 906

D 2 91

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 03-05

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.6	53.2	54.1	55.1	55.3	55.8	56.1	56.4	56.4	56.8	56.8	56.8	56.9	57.1	57.7	58.2
GE 20000	54.3	56.1	57.0	58.0	58.2	58.7	59.0	59.3	59.3	59.7	59.7	59.7	59.8	60.0	60.6	61.1
GE 18000	54.3	56.1	57.0	58.0	58.2	58.7	59.0	59.3	59.3	59.7	59.7	59.7	59.8	60.0	60.6	61.1
GE 16000	54.3	56.1	57.0	58.0	58.2	58.7	59.0	59.3	59.3	59.7	59.7	59.7	59.8	60.0	60.6	61.1
GE 14000	54.3	56.1	57.0	58.0	58.2	58.7	59.0	59.3	59.3	59.7	59.7	59.7	59.8	60.0	60.6	61.1
GE 12000	55.0	56.9	57.8	58.8	59.0	59.4	59.8	60.1	60.1	60.4	60.4	60.4	60.6	60.8	61.3	61.9
GE 10000	58.1	60.2	61.1	62.1	62.3	62.8	63.1	63.4	63.4	63.8	63.8	63.8	63.9	64.1	64.7	65.2
GE 9000	58.1	60.2	61.1	62.1	62.3	62.8	63.1	63.4	63.4	63.8	63.8	63.8	63.9	64.1	64.7	65.2
GE 8000	61.8	64.6	65.4	66.6	66.8	67.2	67.6	67.9	67.9	68.2	68.2	68.2	68.3	68.6	69.1	69.7
GE 7000	62.1	64.9	65.8	66.9	67.1	67.6	67.9	68.2	68.2	68.6	68.6	68.6	68.7	68.9	69.4	70.0
GE 6000	62.1	64.9	65.8	66.9	67.1	67.6	67.9	68.2	68.2	68.6	68.6	68.6	68.7	68.9	69.4	70.0
GE 5000	64.0	67.1	68.0	69.1	69.3	69.8	70.1	70.4	70.4	70.8	70.8	70.8	70.9	71.1	71.7	72.2
GE 4500	64.2	67.3	68.2	69.3	69.6	70.0	70.3	70.7	70.7	71.0	71.0	71.0	71.1	71.3	71.9	72.4
GE 4000	67.2	70.7	71.7	73.0	73.3	73.8	74.1	74.4	74.4	74.8	74.8	74.8	74.9	75.1	75.7	76.2
GE 3500	68.0	71.4	72.4	73.9	74.2	74.7	75.0	75.3	75.3	75.7	75.7	75.7	75.8	76.0	76.6	77.1
GE 3000	70.7	74.7	76.0	77.7	78.0	78.4	78.8	79.1	79.1	79.4	79.4	79.4	79.6	79.8	80.3	80.9
GE 2500	71.4	75.6	76.9	78.7	79.0	79.4	79.8	80.1	80.1	80.4	80.4	80.4	80.6	80.8	81.3	81.9
GE 2000	72.6	76.7	78.2	80.2	80.6	81.0	81.3	81.7	81.7	82.0	82.0	82.0	82.1	82.3	82.9	83.4
GE 1800	73.0	77.2	78.8	80.8	81.1	81.6	81.9	82.2	82.2	82.6	82.6	82.6	82.7	82.9	83.4	84.0
GE 1500	73.7	78.0	79.7	81.8	82.6	83.0	83.3	83.7	83.7	84.0	84.0	84.0	84.1	84.3	84.9	85.4
GE 1200	74.2	78.9	80.8	83.0	84.1	84.6	84.9	85.2	85.2	85.6	85.6	85.6	85.7	85.9	86.4	87.0
GE 1000	74.8	79.7	81.7	84.0	85.2	85.7	86.0	86.3	86.3	86.7	86.7	86.7	86.8	87.0	87.6	88.1
GE 900	74.9	79.9	82.0	84.4	85.9	86.3	86.7	87.0	87.0	87.3	87.3	87.3	87.4	87.7	88.2	88.8
GE 800	75.6	80.7	82.8	85.6	87.0	87.6	88.0	88.3	88.3	88.7	88.7	88.7	88.8	89.0	89.6	90.1
GE 700	75.7	80.8	82.9	85.8	87.6	88.3	88.9	89.2	89.2	89.7	89.7	89.7	89.8	90.0	90.6	91.1
GE 600	75.8	80.9	83.3	86.2	88.9	89.7	90.2	90.6	90.6	91.0	91.0	91.0	91.1	91.3	91.9	92.4
GE 500	75.8	81.0	83.8	86.9	90.0	90.8	91.3	91.7	91.7	92.3	92.3	92.3	92.4	92.7	93.2	93.8
GE 400	75.8	81.0	83.9	87.0	90.6	91.7	92.4	93.0	93.0	93.8	93.8	93.8	93.9	94.1	94.7	95.2
GE 300	75.8	81.0	83.9	87.0	90.9	92.1	92.9	93.7	93.7	94.8	94.9	94.9	95.0	95.2	95.8	96.6
GE 200	75.8	81.0	83.9	87.0	90.9	92.1	93.1	93.9	93.9	95.0	95.6	95.6	95.8	96.1	96.9	97.8
GE 100	75.8	81.0	83.9	87.0	90.9	92.1	93.1	93.9	93.9	95.1	95.8	95.8	96.0	96.4	97.8	99.2
GE 000	75.8	81.0	83.9	87.0	90.9	92.1	93.1	93.9	93.9	95.1	95.8	95.8	96.0	96.4	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	44.1	48.8	50.8	51.8	52.9	53.2	53.3	53.7	53.7	53.8	54.0	54.0	54.2	54.3	54.6	55.0
GE 20000	45.9	51.1	53.2	54.3	55.4	55.8	56.1	56.4	56.4	56.7	56.9	56.9	57.1	57.2	57.6	58.0
GE 18000	45.9	51.1	53.2	54.3	55.4	55.8	56.1	56.4	56.4	56.7	56.9	56.9	57.1	57.2	57.6	58.0
GE 16000	45.9	51.1	53.2	54.3	55.4	55.8	56.1	56.4	56.4	56.7	56.9	56.9	57.1	57.2	57.6	58.0
GE 14000	45.9	51.1	53.2	54.3	55.4	55.8	56.1	56.4	56.4	56.7	56.9	56.9	57.1	57.2	57.6	58.0
GE 12000	47.2	52.8	54.9	56.0	57.1	57.4	57.8	58.1	58.1	58.3	58.6	58.6	58.8	58.9	59.2	59.7
GE 10000	49.4	55.2	57.7	59.0	60.4	61.1	61.4	61.8	61.8	62.0	62.2	62.2	62.4	62.6	62.9	63.3
GE 9000	49.4	55.2	57.7	59.0	60.4	61.1	61.4	61.8	61.8	62.0	62.2	62.2	62.4	62.6	62.9	63.3
GE 8000	52.4	58.6	61.1	62.8	64.3	65.0	65.3	65.7	65.7	65.9	66.1	66.1	66.3	66.4	66.8	67.3
GE 7000	53.1	59.2	61.9	63.6	65.1	65.8	66.1	66.4	66.4	66.7	66.9	66.9	67.1	67.2	67.6	68.[illegible]
GE 6000	53.4	59.6	62.2	63.9	65.4	66.1	66.4	66.8	66.8	67.0	67.2	67.2	67.4	67.6	67.9	68.4
GE 5000	55.8	62.3	65.0	66.7	68.4	69.1	69.4	69.8	69.8	70.0	70.2	70.2	70.4	70.6	70.9	71.4
GE 4500	55.9	62.4	65.2	66.9	68.7	69.3	69.7	70.0	70.0	70.2	70.4	7.4	70.7	70.8	71.1	71.7
GE 4000	58.4	65.1	67.9	69.8	71.6	72.2	72.6	72.9	72.9	73.1	73.3	73.3	73.6	73.7	74.0	74.6
GE 3500	59.0	65.7	68.4	70.3	72.1	72.8	73.1	73.4	73.4	73.7	73.9	73.9	74.1	74.2	74.6	75.1
GE 3000	62.4	69.9	72.8	75.0	77.0	77.7	78.0	78.4	78.4	78.8	79.0	79.0	79.2	79.3	79.7	80.2
GE 2500	63.8	71.3	74.3	76.8	78.8	79.4	79.8	80.2	80.2	80.6	80.8	80.8	81.0	81.1	81.4	82.0
GE 2000	65.2	72.8	76.1	78.8	80.8	81.4	81.8	82.2	82.2	82.6	82.8	82.8	83.0	83.1	83.4	84.0
GE 1800	65.8	73.3	76.7	79.4	81.4	82.1	82.4	82.9	82.9	83.2	83.4	83.4	83.7	83.8	84.1	84.7
GE 1500	66.6	74.2	77.7	80.7	82.7	83.3	83.7	84.1	84.1	84.4	84.7	84.7	84.9	85.0	85.3	85.9
GE 1200	67.0	74.7	78.2	81.3	83.8	84.6	84.9	85.3	85.3	85.7	85.9	85.9	86.1	86.2	86.6	87.1
GE 1000	67.2	75.3	79.2	82.4	85.0	86.0	86.3	86.8	86.8	87.2	87.4	87.4	87.7	87.8	88.1	88.7
GE 900	67.3	75.7	79.7	82.9	85.8	86.8	87.1	87.6	87.6	88.0	88.2	88.2	88.4	88.6	88.9	89.4
GE 800	67.6	75.9	79.9	83.3	86.2	87.2	87.7	88.2	88.2	88.7	88.9	88.9	89.1	89.2	89.6	90.1
GE 700	67.9	76.3	80.3	84.0	87.2	88.3	89.1	89.7	89.7	90.1	90.3	90.3	90.6	90.7	91.0	91.6
GE 600	67.9	76.4	80.6	84.2	87.8	88.9	89.8	90.3	90.3	90.9	91.1	91.1	91.3	91.4	91.8	92.3
GE 500	67.9	76.6	81.1	84.9	88.7	90.1	91.4	92.1	92.1	92.7	92.9	92.9	93.1	93.2	93.6	94.1
GE 400	67.9	76.6	81.1	84.9	88.8	90.2	91.7	92.6	92.6	93.2	93.6	93.6	93.8	93.9	94.2	94.8
GE 300	67.9	76.6	81.1	85.1	89.3	90.8	92.3	93.3	93.4	94.3	94.8	94.8	95.2	95.3	95.7	96.2
GE 200	67.9	76.6	81.1	85.1	89.3	90.8	92.3	93.7	93.8	94.9	95.6	95.6	96.3	96.4	96.9	97.9
GE 100	67.9	76.6	81.1	85.1	89.3	90.8	92.3	93.7	93.8	94.9	95.7	95.7	96.6	96.7	97.2	99.6
GE 000	67.9	76.6	81.1	85.1	89.3	90.8	92.3	93.7	93.8	94.9	95.7	95.7	96.6	96.7	97.[illegible]	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 09 11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	48.9	52.0	53.0	53.4	53.6	53.8	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.1	54.2	54.3
GE 20000	53.2	56.8	58.0	58.6	58.7	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.3	59.4	59.6
GE 18000	53.3	56.9	58.1	58.7	58.8	59.0	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.4	59.6	59.7
GE 16000	53.4	57.0	58.2	58.8	58.9	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.6	59.7	59.8
GE 14000	53.7	57.2	58.4	59.0	59.1	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.8	59.9	60.0
GE 12000	54.4	58.1	59.3	60.0	60.1	60.4	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.9	61.0	61.1
GE 10000	55.9	59.7	61.1	61.8	62.1	62.4	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.9	63.0	63.1
GE 9000	56.0	59.8	61.2	61.9	62.2	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.9	63.0	63.1	63.2
GE 8000	59.3	63.9	65.8	66.6	67.2	67.6	67.8	67.8	67.8	67.8	67.8	67.8	68.0	68.1	68.2	68.3
GE 7000	60.6	65.1	67.1	68.0	68.7	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.4	69.6	69.7	69.8
GE 6000	61.2	65.9	67.9	68.8	69.4	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.2	70.3	70.4	70.6
GE 5000	63.3	68.2	70.2	71.6	72.4	72.9	73.1	73.2	73.2	73.2	73.2	73.2	73.4	73.6	73.7	73.8
GE 4500	63.4	68.3	70.7	72.0	72.9	73.3	73.6	73.7	73.7	73.7	73.7	73.7	73.9	74.0	74.1	74.2
GE 4000	66.1	71.4	73.9	75.3	76.2	76.7	76.9	77.0	77.0	77.0	77.0	77.0	77.2	77.3	77.4	77.6
GE 3500	67.2	72.6	75.1	76.7	77.6	78.0	78.2	78.3	78.3	78.3	78.3	78.3	78.6	78.7	78.8	78.9
GE 3000	69.9	75.7	78.3	80.1	81.1	81.7	82.0	82.1	82.1	82.1	82.1	82.1	82.3	82.4	82.6	82.7
GE 2500	70.6	76.3	79.2	81.2	82.2	82.8	83.1	83.2	83.2	83.2	83.2	83.2	83.4	83.6	83.7	83.8
GE 2000	71.4	77.2	80.4	82.4	83.6	84.1	84.7	85.0	85.0	85.0	85.0	85.0	85.2	85.3	85.4	85.6
GE 1800	72.1	77.9	81.1	83.1	84.2	84.8	85.3	85.7	85.7	85.7	85.7	85.7	85.9	86.0	86.1	86.2
GE 1500	72.6	78.3	81.6	83.9	85.1	85.7	86.2	86.6	86.6	86.6	86.6	86.6	86.8	86.9	87.0	87.1
GE 1200	72.9	78.9	82.3	84.9	86.4	87.0	87.6	87.9	87.9	87.9	87.9	87.9	88.1	88.2	88.3	88.4
GE 1000	73.1	79.1	83.1	85.9	87.6	88.1	88.8	89.1	89.1	89.1	89.1	89.1	89.3	89.4	89.6	89.7
GE 900	73.1	79.3	83.6	86.3	88.0	88.6	89.3	89.8	89.8	89.8	89.8	89.8	90.0	90.1	90.2	90.3
GE 800	73.4	79.8	84.0	86.8	88.9	89.6	90.3	91.1	91.1	91.1	91.1	91.1	91.3	91.4	91.6	91.7
GE 700	74.0	80.6	84.9	87.9	90.0	90.8	91.7	92.7	92.7	92.7	92.7	92.7	92.9	93.0	93.1	93.2
GE 600	74.0	80.6	85.1	88.3	90.8	91.7	92.6	93.7	93.7	93.8	93.8	93.8	94.0	94.1	94.2	94.3
GE 500	74.2	80.8	85.3	88.7	91.3	92.9	94.1	95.4	95.4	95.7	95.7	95.7	95.9	96.0	96.1	96.2
GE 400	74.2	80.8	85.3	88.7	91.7	93.6	95.0	96.4	96.4	96.9	96.9	96.9	97.1	97.2	97.3	97.4
GE 300	74.2	80.8	85.3	88.7	91.9	93.8	95.6	97.1	97.2	97.8	97.8	97.8	98.1	98.2	98.3	98.4
GE 200	74.2	80.8	85.3	88.7	91.9	93.8	95.6	97.2	97.3	97.9	98.1	98.1	98.4	98.6	99.0	99.3
GE 100	74.2	80.8	85.3	88.7	91.9	93.8	95.6	97.2	97.3	97.9	98.1	98.1	98.4	98.6	99.0	99.7
GE 000	74.2	80.8	85.3	88.7	91.9	93.8	95.6	97.2	97.3	97.9	98.1	98.1	98.4	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 12 14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.4	53.2	53.4	53.4	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 20000	58.4	61.9	62.3	62.4	62.7	62.9	62.9	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
GE 18000	58.6	62.0	62.4	62.6	62.8	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 16000	58.6	62.0	62.4	62.6	62.8	63.0	63.0	63.0	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 14000	58.8	62.3	62.8	62.9	63.1	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
GE 12000	59.9	63.6	64.0	64.1	64.3	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 10000	62.0	65.7	66.1	66.2	66.4	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 9000	62.0	65.7	66.1	66.2	66.4	66.7	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 8000	66.7	70.8	71.4	71.8	72.0	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 7000	67.8	71.9	72.6	73.1	73.3	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 6000	68.4	72.6	73.3	73.9	74.1	74.3	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 5000	70.0	74.2	75.0	76.0	76.4	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.8
GE 4500	70.1	74.3	75.1	76.1	76.6	76.8	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 4000	72.3	76.8	77.7	78.8	79.2	79.4	79.4	79.4	79.4	79.6	79.6	79.6	79.6	79.6	79.6	79.6
GE 3500	73.1	77.7	78.7	80.1	80.6	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
GE 3000	76.7	81.3	82.3	84.0	84.4	84.7	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
GE 2500	78.1	82.9	84.1	86.1	86.7	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 2000	79.1	84.1	85.6	87.7	88.4	88.7	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
GE 1800	79.1	84.1	85.7	87.8	88.6	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 1500	79.7	84.8	86.4	88.7	89.6	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1200	80.1	85.4	87.6	89.9	91.1	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8	91.8	91.8
GE 1000	80.7	86.2	88.7	91.1	92.4	93.0	93.0	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
GE 900	80.7	86.2	88.7	91.2	92.6	93.2	93.2	93.2	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 800	80.9	86.4	89.2	92.0	93.7	94.6	94.7	94.7	94.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 700	81.1	86.7	89.9	92.8	94.7	95.7	96.0	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 600	81.1	86.8	90.0	93.0	95.0	96.3	96.7	96.9	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	81.1	86.8	90.1	93.2	95.2	96.8	97.1	97.7	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 400	81.1	86.8	90.1	93.2	95.6	97.1	97.4	98.2	98.4	99.0	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	81.1	86.8	90.1	93.2	95.7	97.2	97.8	98.7	98.9	99.4	99.7	99.7	99.8	99.8	99.8	99.8
GE 200	81.1	86.8	90.1	93.2	95.7	97.2	97.8	98.7	98.9	99.4	99.7	99.7	99.8	99.8	99.9	100.0
GE 100	81.1	86.8	90.1	93.2	95.7	97.2	97.8	98.7	98.9	99.4	99.7	99.7	99.8	99.8	99.9	100.0
GE 000	81.1	86.8	90.1	93.2	95.7	97.2	97.8	98.7	98.9	99.4	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

0 2 - 95

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 15-17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.9	55.6	56.1	56.4	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8
GE 20000	59.8	62.8	63.7	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.9
GE 18000	60.4	63.4	64.3	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.6
GE 16000	60.4	63.4	64.3	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.6
GE 14000	60.8	63.8	64.7	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9
GE 12000	62.0	65.1	66.0	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2
GE 10000	65.0	68.3	69.3	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7
GE 9000	65.0	68.3	69.3	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7
GE 8000	70.0	73.3	74.8	75.9	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.6
GE 7000	70.4	73.8	75.2	76.6	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.2
GE 6000	70.9	74.2	75.7	77.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7
GE 5000	73.6	77.1	79.0	80.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.4
GE 4500	73.7	77.2	79.1	80.6	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.6
GE 4000	75.8	79.6	82.0	83.6	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.6
GE 3500	76.7	80.4	83.1	84.7	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.7
GE 3000	78.7	82.4	85.7	87.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.4
GE 2500	79.6	83.3	86.6	88.2	89.4	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.9
GE 2000	80.1	84.1	87.3	89.1	90.6	90.9	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.3
GE 1800	80.1	84.1	87.6	89.3	90.9	91.2	91.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.7
GE 1500	80.3	84.8	88.2	90.0	91.7	92.0	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.6
GE 1200	80.9	85.3	88.8	90.6	92.4	92.8	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.6
GE 1000	81.2	85.7	89.1	91.1	93.0	93.7	94.1	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.6
GE 900	81.6	86.0	89.6	91.8	94.0	94.7	95.1	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.6
GE 800	81.7	86.1	89.7	91.9	94.2	95.0	95.6	95.8	95.8	96.0	96.0	96.0	96.0	96.0	96.0	96.1
GE 700	82.0	86.4	90.4	92.7	95.6	96.3	96.9	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.6
GE 600	82.0	86.4	90.4	92.8	95.8	96.6	97.1	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.8
GE 500	82.0	86.4	90.6	93.2	96.2	97.3	98.1	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.9
GE 400	82.0	86.4	90.6	93.3	96.4	97.6	98.3	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.6
GE 300	82.0	86.4	90.6	93.3	96.4	97.6	98.3	98.8	98.8	99.6	99.7	99.7	99.7	99.7	99.7	99.8
GE 200	82.0	86.4	90.6	93.3	96.4	97.6	98.3	98.8	98.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 100	82.0	86.4	90.6	93.3	96.4	97.6	98.3	98.8	98.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0
GE 000	82.0	86.4	90.6	93.3	96.4	97.6	98.3	98.8	98.8	99.8	99.9	99.9	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	55.4	56.4	57.3	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.3
GE 20000	60.3	61.6	62.9	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.7
GE 18000	60.6	61.8	63.1	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.9
GE 16000	60.6	61.8	63.1	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.9
GE 14000	60.6	61.8	63.1	64.3	64.6	64.6	64.6	64.6	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.9
GE 12000	62.0	63.2	64.6	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.5
GE 10000	64.4	66.0	67.3	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.3
GE 9000	64.4	66.0	67.3	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1	69.3
GE 8000	69.4	71.0	72.3	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.3	74.6
GE 7000	69.9	71.4	72.8	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8	75.0
GE 6000	70.1	71.9	73.2	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.4
GE 5000	72.3	74.2	75.7	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	78.0
GE 4500	72.3	74.2	75.7	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8	77.8	78.0
GE 4000	75.8	77.3	78.8	80.4	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9	80.9	80.9	80.9	81.1
GE 3500	75.9	78.2	80.0	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.3
GE 3000	78.4	80.9	82.9	85.0	86.0	86.0	86.0	86.0	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.6
GE 2500	80.1	82.9	84.9	87.1	88.1	88.1	88.1	88.1	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.7
GE 2000	80.7	83.4	85.7	88.3	89.7	89.9	89.9	89.9	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.4
GE 1800	80.7	83.6	85.8	88.4	89.8	90.0	90.0	90.0	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.6
GE 1500	81.0	84.0	86.2	89.1	90.6	90.8	90.8	90.8	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.3
GE 1200	82.3	85.3	87.7	90.6	92.0	92.2	92.3	92.3	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.9
GE 1000	82.4	85.9	88.2	91.3	92.8	93.1	93.2	93.2	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.8
GE 900	82.9	85.9	88.2	91.3	92.8	93.2	93.4	93.4	93.7	93.7	93.8	93.8	93.8	93.8	93.8	94.0
GE 800	83.0	86.1	88.4	91.6	93.1	93.6	94.0	94.0	94.2	94.3	94.4	94.4	94.4	94.4	94.4	94.7
GE 700	83.6	86.8	89.7	92.8	94.9	95.4	96.0	96.0	96.2	96.4	96.6	96.6	96.6	96.6	96.6	96.8
GE 600	83.6	86.8	89.7	92.8	94.9	95.4	96.0	96.0	96.2	96.4	96.6	96.6	96.6	96.6	96.6	96.8
GE 500	83.8	87.0	89.9	93.0	95.4	96.1	97.0	97.4	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.3
GE 400	83.8	87.0	89.9	93.1	95.6	96.2	97.6	98.1	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.2
GE 300	83.8	87.0	89.9	93.1	95.6	96.2	97.6	98.1	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.2
GE 200	83.8	87.0	89.9	93.1	95.6	96.2	97.6	98.1	98.3	99.0	99.2	99.2	99.3	99.3	99.6	99.8
GE 100	83.8	87.0	89.9	93.1	95.6	96.2	97.6	98.1	98.3	99.1	99.4	99.4	99.6	99.6	99.8	100.0
GE 000	83.8	87.0	89.9	93.1	95.6	96.2	97.6	98.1	98.3	99.1	99.4	99.4	99.6	99.6	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: 21-23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.4	55.0	55.7	57.0	57.3	57.6	57.8	57.9	57.9	58.0	58.1	58.2	58.4	58.4	58.4	58.4
GE 20000	58.2	60.0	60.7	62.4	62.9	63.1	63.3	63.4	63.4	63.6	63.7	63.8	64.0	64.0	64.0	64.0
GE 18000	58.2	60.0	60.7	62.4	62.9	63.1	63.3	63.4	63.4	63.6	63.7	63.8	64.0	64.0	64.0	64.0
GE 16000	58.2	60.0	60.7	62.4	62.9	63.1	63.3	63.4	63.4	63.6	63.7	63.8	64.0	64.0	64.0	64.0
GE 14000	58.8	60.6	61.2	63.0	63.4	63.7	63.9	64.0	64.0	64.1	64.2	64.3	64.6	64.6	64.6	64.6
GE 12000	60.8	62.6	63.2	65.0	65.4	65.7	65.9	66.0	66.0	66.1	66.2	66.3	66.6	66.6	66.6	66.6
GE 10000	62.8	65.3	66.0	67.8	68.2	68.4	68.7	68.8	68.8	68.9	69.0	69.1	69.3	69.3	69.3	69.3
GE 9000	62.8	65.3	66.0	67.8	68.2	68.4	68.7	68.8	68.8	68.9	69.0	69.1	69.3	69.3	69.3	69.3
GE 8000	67.8	70.3	71.0	72.9	73.3	73.6	73.8	73.9	73.9	74.0	74.1	74.2	74.4	74.4	74.4	74.4
GE 7000	68.6	71.1	71.8	73.7	74.1	74.3	74.6	74.7	74.7	74.8	74.9	75.0	75.2	75.2	75.2	75.2
GE 6000	69.0	71.6	72.2	74.1	74.6	74.8	75.0	75.1	75.1	75.2	75.3	75.4	75.7	75.7	75.7	75.7
GE 5000	71.3	74.0	74.7	76.6	77.0	77.2	77.4	77.6	77.6	77.7	77.8	77.9	78.1	78.1	78.1	78.1
GE 4500	71.6	74.2	74.9	76.8	77.2	77.4	77.7	77.8	77.8	77.9	78.0	78.1	78.3	78.3	78.3	78.3
GE 4000	74.2	77.4	78.1	80.2	80.7	80.9	81.1	81.2	81.2	81.3	81.4	81.6	81.8	81.8	81.8	81.8
GE 3500	75.0	78.2	78.9	81.0	81.4	81.7	81.9	82.0	82.0	82.1	82.2	82.3	82.6	82.6	82.6	82.6
GE 3000	76.4	79.9	80.8	83.6	84.1	84.3	84.6	84.7	84.7	84.9	85.0	85.1	85.3	85.3	85.3	85.3
GE 2500	77.1	80.7	81.7	84.8	85.3	85.6	85.8	85.9	85.9	86.1	86.2	86.3	86.6	86.6	86.6	86.6
GE 2000	78.3	82.1	83.3	86.4	87.0	87.2	87.6	87.7	87.7	87.9	88.0	88.1	88.3	88.3	88.3	88.3
GE 1800	78.3	82.1	83.3	86.4	87.0	87.2	87.6	87.7	87.7	87.9	88.0	88.1	88.3	88.3	88.3	88.3
GE 1500	79.8	83.7	85.1	88.3	88.9	89.1	89.4	89.6	89.6	89.8	89.9	90.0	90.2	90.2	90.2	90.2
GE 1200	80.4	84.6	86.1	89.6	90.2	90.4	90.8	90.9	90.9	91.1	91.2	91.3	91.6	91.6	91.6	91.6
GE 1000	80.8	85.0	87.0	90.4	91.3	91.6	91.9	92.0	92.0	92.2	92.3	92.4	92.7	92.7	92.7	92.7
GE 900	80.9	85.1	87.1	90.6	91.4	91.8	92.1	92.2	92.2	92.4	92.6	92.7	92.9	92.9	92.9	92.9
GE 800	81.3	85.8	87.8	91.3	93.0	93.3	93.7	93.8	93.8	94.0	94.1	94.2	94.4	94.4	94.4	94.4
GE 700	81.6	86.3	88.3	91.9	93.7	94.0	94.4	94.6	94.6	94.8	94.9	95.0	95.2	95.2	95.2	95.2
GE 600	81.7	86.4	88.4	92.0	93.9	94.2	94.7	94.8	94.8	95.0	95.1	95.2	95.4	95.4	95.4	95.4
GE 500	81.7	86.4	88.4	92.1	94.2	94.6	95.1	95.8	95.8	96.0	96.1	96.2	96.4	96.4	96.4	96.4
GE 400	81.8	86.6	88.6	92.4	94.7	95.0	96.4	97.2	97.2	97.9	98.0	98.1	98.3	98.3	98.3	98.3
GE 300	81.8	86.6	88.6	92.4	94.8	95.1	96.7	97.8	97.8	98.7	98.8	98.9	99.1	99.1	99.1	99.1
GE 200	81.8	86.6	88.6	92.4	94.8	95.1	96.8	97.9	97.9	99.0	99.1	99.2	99.6	99.6	99.8	99.8
GE 100	81.8	86.6	88.6	92.4	94.8	95.1	96.8	97.9	97.9	99.0	99.1	99.2	99.7	99.8	100.0	100.0
GE 000	81.8	86.6	88.6	92.4	94.8	95.1	96.8	97.9	97.9	99.0	99.1	99.2	99.7	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745990 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.4	53.8	54.7	55.4	55.8	56.0	56.1	56.2	56.2	56.3	56.4	56.4	56.5	56.6	56.7	56.9
GE 20000	55.8	58.6	59.7	60.6	61.0	61.3	61.4	61.5	61.5	61.7	61.7	61.8	61.9	61.9	62.1	62.3
GE 18000	55.9	58.8	59.8	60.8	61.2	61.4	61.6	61.7	61.7	61.8	61.9	61.9	62.0	62.1	62.2	62.4
GE 16000	56.0	58.8	59.8	60.8	61.2	61.4	61.6	61.7	61.7	61.8	61.9	61.9	62.0	62.1	62.2	62.5
GE 14000	56.1	58.9	60.0	61.0	61.4	61.6	61.8	61.9	61.9	62.0	62.1	62.1	62.2	62.3	62.4	62.6
GE 12000	57.4	60.3	61.4	62.4	62.8	63.0	63.2	63.3	63.3	63.4	63.5	63.5	63.6	63.7	63.8	64.1
GE 11000	59.8	63.0	64.2	65.2	65.7	65.9	66.1	66.2	66.2	66.4	66.4	66.4	66.6	66.6	66.8	67.0
GE 9000	59.8	63.0	64.2	65.2	65.7	66.0	66.1	66.2	66.2	66.4	66.4	66.5	66.6	66.6	66.8	67.0
GE 8000	64.0	67.6	68.9	70.1	70.7	71.0	71.1	71.2	71.2	71.4	71.4	71.5	71.6	71.6	71.8	72.0
GE 7000	64.6	68.2	69.6	70.9	71.4	71.7	71.9	72.0	72.0	72.1	72.2	72.2	72.3	72.4	72.6	72.8
GE 6000	65.0	68.6	70.0	71.3	71.9	72.1	72.3	72.4	72.4	72.6	72.6	72.6	72.8	72.8	73.0	73.2
GE 5000	67.1	71.0	72.4	73.8	74.6	74.8	75.0	75.1	75.1	75.3	75.3	75.4	75.5	75.5	75.7	75.9
GE 4500	67.3	71.1	72.6	74.0	74.7	75.0	75.2	75.3	75.3	75.4	75.5	75.5	75.7	75.7	75.9	76.1
GE 4000	69.4	74.1	75.8	77.3	78.0	78.3	78.5	78.6	78.6	78.8	78.8	78.9	79.0	79.0	79.2	79.4
GE 3500	70.8	74.9	76.7	78.3	79.1	79.3	79.5	79.7	79.7	79.8	79.9	79.9	80.0	80.1	80.2	80.5
GE 3000	73.3	77.8	79.7	81.6	82.5	82.8	83.0	83.2	83.2	83.3	83.4	83.4	83.6	83.6	83.8	84.0
GE 2500	74.3	78.9	80.9	83.0	83.9	84.3	84.5	84.6	84.7	84.8	84.9	84.9	85.0	85.1	85.3	85.5
GE 2000	75.3	80.0	82.3	84.5	85.6	85.9	86.2	86.4	86.4	86.6	86.7	86.7	86.8	86.8	87.0	87.3
GE 1800	75.5	80.3	82.6	84.8	85.9	86.3	86.5	86.7	86.8	86.9	87.0	87.0	87.1	87.2	87.3	87.6
GE 1500	76.1	81.0	83.4	85.8	87.0	87.4	87.7	87.9	87.9	88.1	88.1	88.2	88.3	88.3	88.5	88.7
GE 1200	76.8	81.8	84.3	86.8	88.3	88.7	89.0	89.2	89.3	89.4	89.5	89.5	89.6	89.7	89.8	90.1
GE 1000	77.2	82.4	85.2	87.8	89.3	89.8	90.2	90.4	90.4	90.6	90.7	90.7	90.8	90.9	91.0	91.3
GE 900	77.3	82.5	85.4	88.1	89.8	90.3	90.7	90.9	90.9	91.1	91.2	91.2	91.3	91.4	91.5	91.8
GE 800	77.7	83.0	85.9	88.8	90.7	91.3	91.8	92.1	92.1	92.3	92.4	92.4	92.5	92.6	92.8	93.0
GE 700	78.1	83.5	86.6	89.6	91.9	92.6	93.2	93.5	93.5	93.8	93.8	93.9	94.0	94.0	94.2	94.4
GE 600	78.1	83.5	86.8	89.8	92.3	93.1	93.7	94.0	94.1	94.4	94.5	94.5	94.6	94.7	94.8	95.1
GE 500	78.1	83.6	87.0	90.2	92.9	93.9	94.7	95.2	95.3	95.7	95.8	95.8	95.9	95.9	96.1	96.3
GE 400	78.2	83.6	87.0	90.3	93.3	94.3	95.4	96.1	96.2	96.8	97.0	97.0	97.1	97.2	97.3	97.6
GE 300	78.2	83.6	87.0	90.3	93.4	94.5	95.7	96.6	96.7	97.5	97.7	97.7	97.8	97.9	98.1	98.3
GE 200	78.2	83.6	87.0	90.3	93.4	94.5	95.8	96.8	96.9	97.8	98.0	98.1	98.3	98.4	98.7	99.2
GE 100	78.2	83.6	87.0	90.3	93.4	94.5	95.8	96.8	96.9	97.8	98.1	98.1	98.4	98.6	99.0	99.7
GE 000	78.2	83.6	87.0	90.3	93.4	94.5	95.8	96.8	96.9	97.8	98.1	98.1	98.5	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 00-02

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.5	53.8	54.6	56.0	56.5	56.5	56.5	56.6	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 20000	55.2	56.5	57.3	58.7	59.1	59.1	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 18000	55.2	56.5	57.3	58.7	59.1	59.1	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 16000	55.2	56.5	57.3	58.7	59.1	59.1	59.1	59.2	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 14000	55.6	56.9	57.7	59.1	59.6	59.6	59.6	59.7	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 12000	56.7	58.0	59.0	60.5	61.0	61.0	61.0	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
GE 10000	60.5	61.8	63.0	64.5	64.9	64.9	64.9	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 9000	61.2	62.7	63.9	65.4	65.8	65.8	65.8	65.9	65.9	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 8000	65.8	67.4	68.7	70.2	70.6	70.6	70.6	70.8	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 7000	67.1	68.7	70.0	71.5	71.9	71.9	71.9	72.0	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2
GE 6000	67.2	68.8	70.1	71.6	72.0	72.0	72.0	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 5000	68.6	70.3	71.6	73.1	73.5	73.5	73.5	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8
GE 4500	68.8	70.5	71.8	73.3	73.8	73.8	73.8	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 4000	74.2	76.3	77.7	79.4	79.8	79.8	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
GE 3500	75.2	77.3	78.7	80.3	80.8	80.8	80.8	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0
GE 3000	77.4	80.1	81.6	83.5	84.5	84.5	84.5	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
GE 2500	78.1	80.8	82.3	84.2	85.3	85.3	85.3	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
GE 2000	79.6	82.6	84.4	86.5	87.8	87.8	87.8	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 1800	79.7	82.7	84.5	86.6	88.0	88.0	88.0	88.1	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1500	80.3	83.5	85.7	87.7	89.4	89.4	89.4	89.5	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 1200	80.6	83.9	86.3	88.4	90.0	90.0	90.1	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1000	80.8	84.1	86.7	88.7	90.4	90.4	90.5	90.6	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 900	80.8	84.2	86.9	89.5	91.4	91.4	91.6	91.7	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9
GE 800	81.0	84.4	87.1	89.7	91.7	91.7	92.0	92.2	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 700	81.3	84.8	87.5	90.3	92.6	92.7	93.0	93.1	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 600	81.3	84.8	87.6	90.4	92.8	93.0	93.3	93.4	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 500	81.3	84.8	88.0	91.2	93.9	94.2	94.5	94.8	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 400	81.3	84.8	88.0	91.2	94.0	94.4	94.8	95.7	95.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
GE 300	81.3	84.9	88.1	91.3	94.5	94.9	95.9	96.9	97.1	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 200	81.3	84.9	88.1	91.3	94.5	94.9	95.9	97.3	97.5	98.8	98.8	98.8	98.8	98.9	98.9	99.0
GE 100	81.3	84.9	88.1	91.3	94.5	94.9	95.9	97.3	97.5	98.8	98.8	98.8	98.9	99.2	99.4	100.0
GE 000	81.3	84.9	88.1	91.3	94.5	94.9	95.9	97.3	97.5	98.8	98.8	98.8	98.9	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 0305

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	50.6	52.2	52.6	53.2	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.1
GE 20000	54.4	55.9	56.3	57.0	57.8	57.8	57.8	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.1
GE 18000	54.4	55.9	56.3	57.0	57.8	57.8	57.8	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.1
GE 16000	54.4	55.9	56.3	57.0	57.8	57.8	57.8	57.8	57.8	57.8	58.0	58.0	58.0	58.0	58.0	58.1
GE 14000	54.8	56.3	56.8	57.4	58.3	58.3	58.3	58.3	58.3	58.3	58.4	58.4	58.4	58.4	58.4	58.5
GE 12000	55.2	56.8	57.2	57.8	58.7	58.7	58.7	58.7	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.9
GE 10000	59.5	61.1	61.6	62.3	63.1	63.1	63.1	63.1	63.1	63.1	63.2	632	63.2	63.2	63.2	63.3
GE 9000	60.0	61.6	62.3	62.9	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.1
GE 8000	63.4	65.2	65.9	66.6	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.7
GE 7000	64.3	66.1	66.9	67.6	68.6	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.8
GE 6000	64.5	66.3	67.1	67.8	68.8	68.8	68.8	68.8	68.8	68.8	68.9	68.9	68.9	68.9	68.9	69.0
GE 5000	65.8	67.8	68.7	69.5	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.6
GE 4500	65.8	67.8	68.7	69.5	70.4	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.6
GE 4000	70.3	72.9	73.9	75.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.3
GE 3500	72.0	74.7	75.8	77.0	78.1	78.1	78.1	78.1	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.3
GE 3000	74.9	77.6	78.8	80.4	81.6	81.6	81.6	81.6	81.6	81.6	81.7	81.7	81.7	81.7	81.7	81.8
GE 2500	75.9	78.6	79.8	81.4	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.2
GE 2000	78.0	81.2	82.5	84.2	85.8	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	86.0
GE 1800	78.2	81.4	82.7	84.6	86.2	86.2	86.2	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.5
GE 1500	78.5	81.7	83.0	84.9	86.8	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9	86.9	87.0
GE 1200	79.1	82.5	83.9	85.9	88.1	88.1	88.4	88.4	88.4	88.4	88.5	88.5	88.5	88.5	88.5	88.6
GE 1000	79.5	82.8	84.3	86.3	88.5	88.5	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	89.0
GE 900	79.9	83.2	84.8	87.0	89.4	89.5	89.8	89.8	89.8	89.8	89.9	89.9	89.9	89.9	89.9	90.0
GE 800	80.2	83.7	85.4	87.6	90.1	90.2	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	91.0
GE 700	80.2	83.7	85.9	88.2	91.3	91.4	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.2
GE 600	80.5	84.0	86.3	88.7	91.9	92.0	92.7	92.7	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.9
GE 500	80.5	84.0	86.5	88.9	92.5	92.6	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.5
GE 400	80.5	84.0	86.5	88.9	92.6	92.8	93.9	93.9	93.9	94.0	94.1	94.1	94.2	94.3	94.3	94.4
GE 300	80.6	84.3	86.8	89.2	93.1	93.4	94.8	95.4	95.5	96.1	96.2	96.2	96.3	96.5	96.5	96.6
GE 200	80.6	84.4	86.9	89.4	93.2	93.7	95.3	95.8	95.9	96.8	97.2	97.2	97.4	97.5	97.6	98.3
GE 100	80.6	84.4	86.9	89.4	93.2	93.7	95.3	95.8	95.9	96.8	97.3	97.5	97.7	97.8	98.0	99.5
GE 000	80.6	84.4	86.9	89.4	93.2	93.7	95.3	95.8	95.9	96.8	97.3	97.5	97.7	97.8	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 06-08

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	46.7	48.8	49.5	50.4	51.2	51.3	51.4	51.4	51.5	51.7	51.9	51.9	52.0	52.2	52.3	52.3
GE 20000	50.3	52.7	53.3	54.4	55.2	55.3	55.5	55.6	55.7	56.0	56.3	56.5	56.7	56.8	56.9	56.9
GE 18000	50.3	52.7	53.3	54.4	55.2	55.3	55.5	55.6	55.7	56.0	56.3	56.5	56.7	56.8	56.9	56.9
GE 16000	50.3	52.7	53.3	54.4	55.2	55.3	55.5	55.6	55.7	56.0	56.3	56.5	56.7	56.8	56.9	56.9
GE 14000	50.5	52.9	53.5	54.6	55.4	55.5	55.7	55.8	55.9	56.2	56.6	56.7	56.9	57.0	57.1	57.1
GE 12000	51.0	53.3	54.0	55.1	55.8	55.9	56.1	56.2	56.3	56.7	57.0	57.1	57.3	57.4	57.5	57.5
GE 10000	54.6	57.2	57.8	59.0	59.9	60.0	60.2	60.3	60.4	60.8	61.1	61.2	61.4	61.5	61.7	61.8
GE 9000	54.9	57.5	58.2	59.4	60.2	60.3	60.5	60.6	60.8	61.1	61.4	61.5	61.7	61.8	62.0	62.2
GE 8000	57.4	60.5	61.3	62.5	63.5	63.7	63.9	64.0	64.1	64.4	64.7	64.8	65.1	65.2	65.4	65.5
GE 7000	58.9	62.2	62.9	64.1	65.3	65.4	65.6	65.7	65.8	66.1	66.5	66.6	66.8	66.9	67.1	67.2
GE 6000	59.2	62.5	63.4	64.6	65.8	65.9	66.1	66.2	66.3	66.7	67.0	67.1	67.3	67.4	67.6	67.7
GE 5000	61.3	64.5	65.6	66.9	68.3	68.4	68.6	68.7	68.8	69.1	69.5	69.6	69.8	69.9	70.1	70.2
GE 4500	61.7	64.9	66.0	67.3	68.7	68.8	69.0	69.1	69.2	69.6	69.9	70.0	70.2	70.3	70.5	70.6
GE 4000	65.8	69.1	70.2	71.8	73.4	73.5	73.8	73.9	74.0	74.3	74.6	74.7	74.9	75.1	75.3	75.4
GE 3500	67.6	71.1	72.3	74.0	75.7	75.8	76.1	76.2	76.5	76.8	77.1	77.2	77.4	77.5	77.7	77.8
GE 3000	70.3	73.9	75.2	77.2	79.0	79.1	79.5	79.6	79.8	80.1	80.4	80.5	80.9	81.0	81.2	81.3
GE 2500	71.3	74.8	76.2	78.4	80.5	80.6	81.0	81.1	81.3	81.6	81.9	82.0	82.4	82.5	82.7	82.8
GE 2000	72.8	76.5	78.3	80.9	83.1	83.2	83.5	83.7	83.9	84.2	84.5	84.6	84.9	85.1	85.3	85.4
GE 1800	73.0	76.7	78.5	81.1	83.3	83.4	83.8	83.9	84.1	84.4	84.7	84.8	85.2	85.3	85.5	85.6
GE 1500	73.9	77.5	79.5	82.2	84.5	84.6	84.9	85.1	85.3	85.6	85.9	86.0	86.3	86.5	86.7	86.8
GE 1200	74.3	78.1	80.1	82.8	85.7	85.9	86.2	86.3	86.7	87.0	87.3	87.4	87.7	87.8	88.1	88.2
GE 1000	74.5	78.3	80.3	83.0	86.1	86.3	86.7	86.9	87.2	87.5	87.8	88.0	88.3	88.4	88.6	88.7
GE 900	75.2	78.9	81.0	83.7	87.0	87.2	87.5	87.7	88.1	88.4	88.7	88.8	89.1	89.2	89.5	89.6
GE 800	75.3	79.0	81.1	83.9	87.2	87.4	87.7	88.0	88.4	88.7	89.0	89.1	89.5	89.6	89.8	89.9
GE 700	75.7	79.6	81.7	84.7	88.3	88.5	88.9	89.1	89.6	89.9	90.2	90.3	90.6	90.8	91.0	91.1
GE 600	75.9	79.8	82.0	85.3	89.1	89.5	89.9	90.1	90.5	90.9	91.2	91.3	91.6	91.7	91.9	92.0
GE 500	76.1	80.0	82.3	85.6	89.9	90.2	91.1	91.3	91.8	92.3	92.6	92.7	93.1	93.2	93.4	93.5
GE 400	76.1	80.0	82.3	85.6	90.1	90.6	92.3	92.5	93.0	93.4	93.8	93.9	94.4	94.5	94.7	94.8
GE 300	76.2	80.1	82.4	85.7	90.4	91.1	92.8	93.3	94.1	94.7	95.2	95.3	96.0	96.1	96.5	96.6
GE 200	76.2	80.1	82.4	85.7	90.4	91.2	93.1	93.8	94.5	95.4	96.0	96.6	97.5	98.0	98.5	98.7
GE 100	76.2	80.1	82.4	85.7	90.4	91.2	93.1	93.8	94.5	95.4	96.1	96.7	98.0	98.4	98.9	99.6
GE 000	76.2	80.1	82.4	85.7	90.4	91.2	93.1	93.8	94.5	95.4	96.1	96.7	98.0	98.4	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 09-11

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.3	49.8	51.1	51.9	52.5	52.7	53.0	53.0	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1
GE 20000	51.8	54.8	56.6	57.5	58.1	58.4	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 18000	51.8	54.8	56.6	57.5	58.1	58.4	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 16000	51.	54.8	56.6	57.5	58.1	58.4	58.7	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 14000	51.9	54.9	56.7	57.6	58.3	58.6	58.9	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2
GE 12000	52.8	55.8	57.5	58.5	59.1	59.5	59.8	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 10000	56.5	59.8	61.5	62.5	63.1	63.4	63.8	64.0	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 9000	56.5	59.9	61.6	62.6	63.2	63.5	63.9	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2
GE 8000	60.3	64.1	65.8	67.1	67.8	68.2	68.6	68.8	68.8	68.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 7000	62.4	66.7	68.4	69.8	70.8	71.2	71.6	71.8	71.8	71.9	72.0	72.0	72.0	72.0	72.0	72.0
GE 6000	62.6	66.9	68.6	70.1	71.1	71.5	71.9	72.2	72.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4
GE 5000	64.2	68.7	70.6	72.5	73.4	74.1	74.5	74.7	74.7	74.8	74.9	74.9	74.9	74.9	74.9	74.9
GE 4500	64.6	69.1	71.1	72.9	73.9	74.5	74.9	75.2	75.2	75.3	75.4	75.4	75.4	75.4	75.4	75.4
GE 4000	66.2	71.0	73.0	75.1	76.2	77.0	77.4	77.6	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8
GE 3500	67.2	72.0	74.2	76.5	77.7	78.5	78.9	79.1	79.1	79.2	79.4	79.4	79.4	79.4	79.4	79.4
GE 3000	69.2	74.3	76.6	79.0	80.3	81.1	81.5	81.7	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9
GE 2500	70.2	75.5	77.8	80.3	81.6	82.4	82.8	83.0	83.0	83.1	83.2	83.2	83.2	83.2	83.2	83.2
GE 2000	71.2	76.7	79.2	82.4	84.1	84.9	85.4	85.6	85.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8
GE 1800	71.2	76.7	79.2	82.4	84.1	85.1	85.5	85.7	85.7	85.8	85.9	85.9	85.9	85.9	85.9	85.9
GE 1500	72.0	77.5	80.3	83.4	85.3	86.3	86.9	87.2	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4
GE 1200	72.5	78.0	80.8	84.1	86.1	87.2	87.7	88.1	88.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5
GE 1000	73.2	78.7	81.5	84.9	87.0	88.2	88.7	89.1	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7
GE 900	73.7	79.1	81.9	85.4	87.4	88.7	89.2	89.7	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2
GE 800	73.8	79.2	82.0	85.7	87.8	89.1	89.9	90.3	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0
GE 700	73.8	79.2	82.3	86.0	88.2	89.6	90.5	91.0	91.3	91.5	91.6	91.6	91.6	91.6	91.6	91.6
GE 600	73.9	79.5	82.6	86.7	88.9	90.4	91.5	92.0	92.4	92.7	92.8	92.8	93.1	93.1	93.1	93.1
GE 500	73.9	79.5	82.7	86.8	89.4	91.1	92.3	93.4	93.9	94.2	94.5	94.5	94.9	94.9	94.9	94.9
GE 400	73.9	79.5	82.7	86.8	89.5	91.5	93.2	94.7	95.3	95.8	96.1	96.1	96.6	96.6	96.6	96.6
GE 300	73.9	79.5	82.7	86.9	89.7	91.8	93.8	96.0	96.6	97.7	98.2	98.2	98.7	98.7	98.7	98.7
GE 200	73.9	79.5	82.7	86.9	89.7	91.8	93.8	96.1	96.8	98.3	98.9	99.0	99.8	99.8	99.9	99.9
GE 100	73.9	79.5	82.7	86.9	89.7	91.8	93.8	96.1	96.8	98.3	98.9	99.0	99.8	99.8	99.9	100.0
GE 000	73.9	79.5	82.7	86.9	89.7	91.8	93.8	96.1	96.8	98.3	98.9	99.0	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 12-14

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	53.2	54.8	55.5	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 20000	58.9	60.8	61.6	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 18000	59.1	61.0	61.8	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 16000	59.2	61.1	61.9	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 14000	59.7	61.5	62.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 12000	60.2	62.0	62.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
GE 10000	63.9	65.7	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 9000	64.0	65.8	66.7	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 8000	68.4	70.4	71.7	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
GE 7000	69.5	71.6	72.9	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
GE 6000	69.7	71.8	73.3	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 5000	70.3	72.5	74.0	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 4500	71.0	73.1	74.6	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 4000	72.9	75.4	77.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 3500	74.2	77.0	78.7	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 3000	77.7	80.6	82.5	84.0	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 2500	78.6	81.5	83.3	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
GE 2000	79.9	82.8	84.7	86.5	87.5	87.6	87.6	87.8	88.0	88.2	88.2	88.2	88.2	88.2	88.2	88.2
GE 1800	79.9	82.8	84.7	86.5	87.5	87.6	87.7	88.0	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3
GE 1500	80.3	83.2	85.3	87.2	88.3	88.4	88.6	88.8	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1200	80.6	83.7	85.8	88.0	89.1	89.2	89.6	89.8	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1000	81.0	84.1	86.2	88.7	90.0	90.1	90.4	90.6	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 900	81.2	84.3	86.6	89.1	90.4	90.5	90.9	91.1	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 800	81.6	84.8	87.1	89.9	91.3	91.4	91.7	91.9	92.2	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 700	81.6	84.9	87.2	90.2	91.8	92.3	93.1	93.4	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 600	81.6	85.2	87.4	90.4	92.4	92.9	94.0	94.3	94.5	94.8	94.9	94.9	94.9	94.9	94.9	94.9
GE 500	81.7	85.3	87.6	90.9	92.9	93.8	95.2	95.9	96.2	96.7	96.8	96.8	96.9	96.9	96.9	96.9
GE 400	81.7	85.3	87.6	90.9	92.9	93.9	95.5	96.2	96.9	97.6	97.8	97.8	98.1	98.1	98.1	98.1
GE 300	81.7	85.3	87.7	91.1	93.1	4.1	96.0	97.0	98.2	98.9	99.5	99.5	99.8	99.8	99.8	99.8
GE 200	81.7	85.3	87.7	91.1	93.1	94.1	96.0	97.1	98.3	99.0	99.6	99.6	99.9	99.9	99.9	100.0
GE 100	81.7	85.3	87.7	91.1	93.1	94.1	96.0	97.1	98.3	99.0	99.6	99.6	99.9	99.9	99.9	100.0
GE 000	81.7	85.3	87.7	91.1	93.1	94.1	96.0	97.1	98.3	99.0	99.6	99.6	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 15 17

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.7	52.5	53.4	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 20000	58.9	59.7	60.6	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
GE 18000	59.7	60.4	61.4	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
GE 16000	59.8	60.5	61.5	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 14000	60.4	61.2	62.2	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
GE 12000	61.7	62.5	63.4	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
GE 10000	65.5	66.3	67.3	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
GE 9000	65.9	66.8	67.7	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
GE 8000	69.5	70.6	72.2	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 7000	70.4	71.6	73.1	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
GE 6000	70.8	71.9	73.4	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
GE 5000	71.7	72.9	74.6	75.2	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
GE 4500	72.0	73.2	74.9	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
GE 4000	73.5	75.1	76.9	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE 3500	75.1	76.7	78.5	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 3000	77.0	79.0	81.1	82.2	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
GE 2500	78.6	80.6	82.8	84.2	84.6	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
GE 2000	80.0	82.9	85.4	86.9	87.4	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
GE 1800	80.1	83.0	85.5	87.0	87.5	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 1500	80.2	83.3	85.8	87.4	88.2	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
GE 1200	80.5	84.3	86.9	88.7	89.7	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 1000	80.9	84.7	87.3	89.5	90.6	90.9	91.3	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5
GE 900	81.2	85.1	87.7	90.0	91.2	91.4	91.8	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0
GE 800	81.2	85.1	87.7	90.1	91.4	91.9	92.8	92.9	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0
GE 700	81.3	85.3	88.3	90.9	92.5	93.0	94.4	94.5	94.5	94.6	94.7	94.7	94.7	94.7	94.7	94.7
GE 600	81.4	85.4	88.4	91.1	92.8	93.5	95.2	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.7	95.7
GE 500	81.4	85.4	88.4	91.1	92.9	93.8	95.7	96.1	96.1	96.5	96.7	96.7	96.7	96.7	96.7	96.7
GE 400	81.5	85.6	88.6	91.4	93.3	94.5	96.7	97.2	97.3	97.8	98.2	98.2	98.2	98.2	98.2	98.2
GE 300	81.5	85.6	88.6	91.4	93.3	94.8	97.3	98.1	98.4	99.0	99.4	99.4	99.4	99.4	99.4	99.4
GE 200	81.5	85.6	88.6	91.4	93.3	94.8	97.3	98.1	98.6	99.4	99.7	99.9	99.9	99.9	99.9	99.9
GE 100	81.5	85.6	88.6	91.4	93.3	94.8	97.3	98.1	98.6	99.4	99.7	99.9	100.0	100.0	100.0	100.0
GE 000	81.5	85.6	88.6	91.4	93.3	94.8	97.3	98.1	98.6	99.4	99.7	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 18-20

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	54.5	55.2	55.7	56.5	56.8	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
GE 20000	57.5	58.2	58.7	59.5	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 18000	57.8	58.5	59.0	59.8	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 16000	57.8	58.5	59.0	59.8	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 14000	58.3	58.9	59.5	60.2	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 12000	59.8	60.5	61.1	61.8	62.3	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
GE 10000	65.7	66.5	67.0	67.7	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 9000	66.5	67.2	67.7	68.5	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
GE 8000	71.1	72.5	73.1	73.9	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 7000	72.7	74.1	74.7	75.6	76.0	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 6000	72.9	74.3	75.2	76.0	76.5	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 5000	74.1	75.5	76.3	77.2	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
GE 4500	74.3	75.7	76.6	77.4	77.8	78.0	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
GE 4000	76.5	78.2	79.0	79.9	80.3	80.4	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 3500	77.7	79.6	80.4	81.3	81.7	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
GE 3000	79.2	81.3	82.3	83.2	83.8	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 2500	80.6	82.8	83.9	84.9	85.6	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2000	81.7	84.1	85.3	86.5	87.2	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
GE 1800	81.7	84.1	85.3	86.5	87.3	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 1500	81.9	84.5	85.7	87.0	88.1	88.4	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 1200	82.4	85.3	86.8	88.3	89.8	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1000	82.5	85.5	87.3	89.2	91.2	91.5	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 900	82.5	85.6	87.5	89.5	91.7	92.3	92.8	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 800	82.8	85.9	88.0	89.9	92.4	92.9	93.5	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 700	82.8	86.0	88.2	90.1	92.8	93.3	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
GE 600	82.8	86.1	88.4	90.8	93.9	94.4	95.3	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 500	82.8	86.1	88.4	90.9	94.1	94.7	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 400	82.8	86.1	88.4	91.1	94.3	95.2	96.6	96.8	96.9	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 300	82.8	86.1	88.4	91.1	94.3	95.2	96.8	97.3	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 200	82.8	86.1	88.4	91.1	94.3	95.4	97.1	97.8	98.3	98.9	99.0	99.0	99.2	99.2	99.4	99.4
GE 100	82.8	86.1	88.4	91.1	94.3	95.4	97.1	97.8	98.3	98.9	99.4	99.4	99.7	99.7	99.8	99.9
GE 000	82.8	86.1	88.4	91.1	94.3	95.4	97.1	97.8	98.3	98.9	99.4	99.4	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: 21 23

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	52.4	53.5	54.3	54.7	55.3	55.3	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
GE 20000	54.5	55.9	56.8	57.5	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 18000	54.5	55.9	56.8	57.5	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 16000	54.5	55.9	56.8	57.5	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 14000	54.6	56.0	56.9	57.6	58.2	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 12000	57.2	58.6	59.5	60.2	60.8	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 10000	62.0	63.7	64.5	65.3	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 9000	62.5	64.1	64.9	65.7	66.2	66.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
GE 8000	68.0	69.6	71.1	71.8	72.4	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
GE 7000	69.5	71.1	72.9	73.7	74.2	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
GE 6000	69.7	71.3	73.1	73.9	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 5000	70.6	72.5	74.3	75.1	75.6	75.6	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
GE 4500	71.1	72.9	74.7	75.5	76.0	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 4000	74.6	76.9	78.9	79.7	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
GE 3500	76.9	79.1	81.3	82.0	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
GE 3000	79.8	82.4	84.5	85.4	86.2	86.2	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 2500	80.4	83.0	85.2	86.0	86.9	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 2000	81.5	84.3	86.8	87.7	88.6	88.6	88.8	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 1800	81.5	84.3	86.8	87.8	88.7	88.7	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1500	82.3	85.1	87.7	88.9	89.8	89.8	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1200	82.5	85.3	88.2	89.7	90.5	90.5	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1000	82.7	85.5	88.6	90.1	91.0	91.0	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3
GE 900	82.7	85.6	88.7	90.2	91.8	91.8	92.0	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 800	82.8	85.7	88.8	90.4	92.0	92.2	92.4	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 700	82.8	85.7	88.9	90.5	92.2	92.3	92.7	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 600	82.8	85.7	89.1	91.1	93.1	93.2	93.8	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 500	82.8	85.7	89.2	91.5	93.8	93.9	94.7	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 400	82.9	85.8	89.4	91.7	94.2	94.5	95.6	96.7	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 300	82.9	85.8	89.4	91.7	94.4	94.7	96.0	97.4	97.8	98.3	98.4	98.4	98.4	98.4	98.4	98.4
GE 200	82.9	85.8	89.4	91.7	94.5	94.8	96.2	97.7	98.3	98.8	98.9	99.0	99.0	99.0	99.0	99.1
GE 100	82.9	85.8	89.4	91.7	94.5	94.8	96.2	97.7	98.3	98.8	98.9	99.0	99.0	99.2	99.4	100.0
GE 000	82.9	85.8	89.4	91.7	94.5	94.8	96.2	97.7	98.3	98.8	98.9	99.0	99.0	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 930

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: DEC HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	51.1	52.6	53.3	54.0	54.5	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.7	54.7	54.7	54.8
GE 20000	55.2	56.8	57.7	58.4	58.9	59.0	59.0	59.1	59.1	59.2	59.2	59.2	59.3	59.3	59.3	59.3
GE 18000	55.4	57.0	57.8	58.6	59.0	59.1	59.2	59.3	59.3	59.3	59.4	59.4	59.4	59.4	59.5	59.5
GE 16000	55.4	57.0	57.8	58.6	59.1	59.1	59.2	59.3	59.3	59.4	59.4	59.4	59.5	59.5	59.5	59.5
GE 14000	55.7	57.3	58.2	59.0	59.4	59.5	59.6	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.9	59.9
GE 12000	56.8	58.4	59.3	60.1	60.6	60.6	60.7	60.8	60.8	60.9	60.9	60.9	61.0	61.0	61.0	61.0
GE 10000	61.0	62.8	63.7	64.4	64.9	65.0	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.4	65.4
GE 9000	61.4	63.2	64.1	64.9	65.4	65.5	65.6	65.6	65.6	65.7	65.8	65.8	65.8	65.8	65.8	65.9
GE 8000	65.5	67.5	68.7	69.6	70.1	70.2	70.3	70.3	70.3	70.4	70.5	70.5	70.5	70.5	70.6	70.6
GE 7000	66.8	69.0	70.2	71.1	71.7	71.8	71.9	72.0	72.0	72.1	72.1	72.1	72.2	72.2	72.2	72.2
GE 6000	67.1	69.2	70.5	71.5	72.1	72.1	72.3	72.3	72.3	72.4	72.5	72.5	72.5	72.5	72.5	72.6
GE 5000	68.3	70.6	72.0	73.0	73.6	73.8	73.9	73.9	73.9	74.0	74.1	74.1	74.1	74.1	74.2	74.2
GE 4500	68.7	70.9	72.3	73.4	74.0	74.1	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.5	74.5	74.5
GE 4000	71.8	74.4	75.8	77.0	77.7	77.8	78.0	78.0	78.0	78.1	78.2	78.2	78.2	78.2	78.3	78.3
GE 3500	73.2	75.9	77.5	78.8	79.5	79.6	79.7	79.8	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.1
GE 3000	75.7	78.7	80.3	81.9	82.8	82.9	83.1	83.1	83.2	83.3	83.3	83.3	83.4	83.4	83.4	83.4
GE 2500	76.7	79.7	81.4	83.1	84.2	84.3	84.5	84.5	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.8
GE 2000	78.1	81.4	83.3	85.2	86.5	86.6	86.8	86.9	86.9	87.1	87.1	87.1	87.2	87.2	87.2	87.2
GE 1800	78.2	81.5	83.4	85.3	86.6	86.8	87.0	87.1	87.1	87.2	87.3	87.3	87.3	87.4	87.4	87.4
GE 1500	78.7	82.1	84.1	86.1	87.5	87.7	88.0	88.1	88.1	88.2	88.3	8.3	88.3	88.3	88.4	88.4
GE 1200	79.1	82.6	84.8	87.0	88.6	88.9	89.2	89.3	89.4	89.5	89.5	89.5	89.6	89.6	89.6	89.7
GE 1000	79.4	83.0	85.3	87.6	89.4	89.6	90.0	90.1	90.2	90.3	90.4	90.4	90.4	90.5	90.5	90.5
GE 900	79.6	83.3	85.6	88.0	90.0	90.3	90.7	90.9	91.0	91.1	91.2	91.2	91.2	91.3	91.3	91.3
GE 800	79.8	83.5	85.9	88.4	90.5	90.9	91.4	91.5	91.7	91.8	91.9	91.9	91.9	91.9	92.0	92.0
GE 700	79.9	83.7	86.3	88.9	91.2	91.6	92.3	92.5	92.7	92.8	92.9	92.9	92.9	93.0	93.0	93.0
GE 600	80.0	83.8	86.5	89.3	91.9	92.4	93.2	93.4	93.6	93.7	93.8	93.9	93.9	94.0	94.0	94.0
GE 500	80.1	83.8	86.6	89.6	92.4	93.0	94.1	94.5	94.7	94.9	95.1	95.1	95.2	95.2	95.3	95.3
GE 400	80.1	83.9	86.7	89.7	92.6	93.4	94.8	95.5	95.7	96.2	96.3	96.3	96.5	96.5	96.5	96.6
GE 300	80.1	84.0	86.7	89.8	92.9	93.8	95.4	96.4	96.9	97.6	97.9	97.9	98.1	98.1	98.2	98.2
GE 200	80.1	84.0	86.8	89.8	92.9	93.8	95.6	96.7	97.3	98.2	98.5	98.6	99.0	99.0	99.1	99.3
GE 100	80.1	84.0	86.8	89.8	92.9	93.8	95.6	96.7	97.3	98.2	98.6	98.7	99.1	99.3	99.4	99.9
GE 000	80.1	84.0	86.8	89.8	92.9	93.8	95.6	96.7	97.3	98.2	98.6	98.7	99.1	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

OPEATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL HOURS: ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES GE 7	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 3/8	GE 1/4	GE 0
NO CEIL	47.9	52.3	55.0	56.5	57.3	57.5	57.6	57.7	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.9
GE 20000	52.9	58.1	61.2	62.9	63.8	64.1	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.5	64.5
GE 18000	53.1	58.3	61.4	63.2	64.0	64.3	64.4	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.7	64.7
GE 16000	53.2	58.3	61.5	63.2	64.1	64.3	64.5	64.5	64.5	64.6	64.6	64.6	64.7	64.7	64.7	64.8
GE 14000	53.5	58.7	61.9	63.6	64.5	64.8	64.9	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.2	65.2
GE 12000	54.3	59.6	62.8	64.6	65.5	65.7	65.9	65.9	65.9	66.0	66.0	66.0	66.1	66.1	66.1	66.2
GE 10000	57.0	62.7	66.1	68.1	69.0	69.3	69.4	69.5	69.5	69.6	69.6	69.6	69.6	69.6	69.7	69.7
GE 9000	57.3	63.0	66.5	68.4	69.4	69.6	69.8	69.8	69.8	69.9	69.9	69.9	70.0	70.0	70.0	70.1
GE 8000	61.9	68.1	71.9	74.0	75.1	75.4	75.5	75.6	75.6	75.7	75.7	75.7	75.8	75.8	75.8	75.9
GE 7000	62.9	69.3	73.2	75.3	76.4	76.7	76.9	76.9	76.9	77.0	77.0	77.0	77.1	77.1	77.1	77.2
GE 6000	63.3	69.7	73.6	75.8	76.8	77.1	77.3	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.6	77.7
GE 5000	64.7	71.3	75.3	77.6	78.7	79.1	79.2	79.3	79.3	79.4	79.4	79.4	79.5	79.5	79.5	79.6
GE 4500	65.0	71.6	75.7	78.0	79.1	79.4	79.6	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.9	79.9
GE 4000	67.0	73.9	78.2	80.6	81.8	82.1	82.3	82.4	82.4	82.5	82.5	82.5	82.6	82.6	82.6	82.7
GE 3500	67.8	74.9	79.2	81.7	83.0	83.3	83.5	83.6	83.6	83.7	83.7	83.7	83.7	83.7	83.8	83.9
GE 3000	69.5	76.9	81.5	84.2	85.6	86.0	86.2	86.3	86.3	86.4	86.4	86.4	86.5	86.5	86.5	86.6
GE 2500	70.2	77.7	82.4	85.2	86.7	87.1	87.3	87.4	87.5	87.5	87.6	87.6	87.6	87.6	87.7	87.7
GE 2000	71.2	78.9	83.7	86.7	88.3	88.8	89.0	89.2	89.2	89.3	89.3	89.3	89.4	89.4	89.4	89.5
GE 1800	71.3	79.0	83.9	86.8	88.5	88.9	89.2	89.3	89.4	89.5	89.5	89.5	89.6	89.6	89.6	89.7
GE 1500	71.8	79.7	84.7	87.8	89.5	90.0	90.4	90.5	90.5	90.6	90.7	90.7	90.7	90.7	90.8	90.8
GE 1200	72.4	80.5	85.7	89.0	90.8	91.4	91.8	91.9	92.0	92.1	92.1	92.1	92.2	92.2	92.2	92.3
GE 1000	72.7	80.9	86.2	89.6	91.6	92.2	92.6	92.8	92.9	93.0	93.0	93.0	93.1	93.1	93.1	93.2
GE 900	72.9	81.1	86.5	89.9	92.0	92.7	93.1	93.3	93.3	93.5	93.5	93.5	93.6	93.6	93.6	93.7
GE 800	73.0	81.4	86.8	90.4	92.6	93.3	93.8	94.0	94.0	94.2	94.2	94.2	94.3	94.3	94.4	94.4
GE 700	73.2	81.6	87.2	90.8	93.2	94.0	94.5	94.7	94.8	95.0	95.0	95.0	95.1	95.1	95.2	95.2
GE 600	73.2	81.7	87.3	91.1	93.6	94.5	95.1	95.4	95.5	95.7	95.7	95.7	95.8	95.8	95.9	95.9
GE 500	73.3	81.8	87.5	91.4	94.1	95.2	95.9	96.4	96.5	96.7	96.8	96.8	96.9	96.9	97.0	97.0
GE 400	73.3	81.8	87.6	91.5	94.4	95.6	96.5	97.1	97.2	97.6	97.7	97.7	97.8	97.8	97.9	98.0
GE 300	73.3	81.8	87.6	91.6	94.6	95.8	96.9	97.6	97.8	98.3	98.5	98.5	98.7	98.7	98.8	98.9
GE 200	73.3	81.8	87.6	91.6	94.6	95.8	97.0	97.7	98.0	98.6	98.9	98.9	99.1	99.1	99.3	99.5
GE 100	73.3	81.8	87.6	91.6	94.6	95.8	97.0	97.8	98.0	98.6	98.9	99.0	99.2	99.3	99.5	99.8
GE 000	73.3	81.8	87.6	91.6	94.6	95.8	97.0	97.8	98.0	98.6	98.9	99.0	99.2	99.3	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS: 87667

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	AIRWAY CLASSES OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	33.9	16.9	11.5	34.2	3.5	49.2	3.1	930
03-05	31.8	18.1	12.3	35.1	2.8	50.1	4.2	930
06-08	20.0	25.7	16.8	34.9	2.6	54.3	4.3	930
09-11	9.6	29.7	21.2	37.0	2.6	60.8	4.3	930
12-14	9.8	29.7	23.9	35.3	1.4	60.5	3.3	930
15-17	8.2	33.4	23.7	33.5	1.2	58.4	3.0	930
18-20	18.6	28.9	18.1	31.6	2.8	52.5	2.4	930
21-23	31.2	20.4	11.2	34.2	3.0	48.4	2.7	930
ALL HOURS	20.0	25.0	17.0	34.0	2.0	54.0	3.0	7440

MONTH: FEB HOURS: ALL

00-02	28.7	17.7	13.5	36.2	3.9	53.6	4.6	849
03-05	31.2	17.4	11.0	36.0	4.4	51.4	5.4	849
06-08	17.2	26.3	17.3	35.2	4.0	56.5	6.7	849
09-11	9.9	27.0	23.7	36.2	3.3	63.1	4.6	849
12-14	9.3	26.3	24.3	37.9	2.2	64.4	3.8	849
15-17	8.2	28.0	22.7	39.2	1.8	63.7	2.5	849
18-20	15.9	27.7	16.7	37.3	2.4	56.4	3.8	849
21-23	26.1	21.4	15.5	33.2	3.7	52.4	3.5	849
ALL HOURS	18.3	24.0	18.1	36.4	3.2	57.7	4.4	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745930 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD. NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	AIRWAY CLASSES							
00-02	37.0	17.2	11.1	32.5	2.3	45.8	2.9	930
03-05	33.9	20.5	10.1	32.6	2.9	45.6	3.5	930
06-08	13.7	32.6	18.6	32.4	2.8	53.8	4.8	930
09-11	11.8	31.0	21.1	35.1	1.1	57.2	3.2	930
12-14	10.6	31.2	22.6	35.8	.4	58.8	3.1	930
15-17	10.1	32.8	5.8	31.1	.2	57.1	3.5	930
18-20	15.1	34.1	16.6	32.3	2.0	50.9	2.4	930
21-23	32.[illegible]	21.9	10.1	33.1	2.8	46.0	1.5	930
ALL HOURS	20.[illegible]	27.0	16.0	33.0	1.6	51.0	3.0	7440

MONTH: APR HOURS: ALL

00-02	29.3	23.1	14.1	31.3	2.1	47.6	1.0	900
03-05	27.7	27.2	13.2	30.6	1.3	45.1	1.8	900
06-08	16.2	30.1	21.2	30.7	1.3	53.7	2.1	900
09-11	11.[illegible]	33.2	20.3	33.9	.9	55.1	2.2	900
12-14	[illegible].7	36.0	22.3	35.9	.1	56.3	1.9	900
15-17	9.1	33.[illegible]	29.0	29.7		58.7	2.2	900
18-20	8.3	38.3	21.3	31.2	.8	53.3	2.0	900
21-23	24.3	27.1	16.6	30.8	1.2	48.6	1.0	900
ALL HOURS	15.7	31.0	19.8	31.5	[illegible]	52.3	1.8	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	AIRWAY CLASSES							
00-02	25.3	25.2	19.5	29.1	1.0	49.6	.9	930
03-05	19.9	29.1	20.0	28.9	2.0	51.0	1.7	930
06-08	12.6	31.0	26.8	28.6	1.1	56.5	2.7	930
09-11	13.0	29.8	28.9	28.2	.1	57.2	1.3	930
12-14	7.2	35.4	30.9	26.4		57.4	1.3	930
15-17	5.6	34.7	32.5	27.2		59.7	3.0	930
18-20	6.2	36.2	30.5	26.9	.1	57.5	2.2	930
21-23	19.8	28.9	20.4	30.1	.8	51.3	.9	930
ALL HOURS	13.0	31.0	26.0	28.0	.0	55.0	1.0	7440

MONTH: JUN HOURS: ALL

00-02	27.3	32.2	20.7	19.6	.2	40.4	3.0	900
03-05	18.0	37.2	23.8	21.0		44.8	5.0	900
06-08	10.4	35.1	32.3	22.1		54.4	5.8	900
09-11	7.9	42.8	30.0	19.3		49.3	2.7	900
12-14	3.7	48.0	28.9	19.4		48.3	2.8	900
15-17	5.0	43.3	32.2	19.4		51.7	5.6	900
18-20	7.1	42.1	26.9	23.9		50.8	4.1	900
21-23	19.9	40.3	18.3	21.4		39.8	2.9	900
ALL HOURS	12.4	40.1	26.6	20.8	.0	47.4	4.0	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
				AIRWAY CLASSES				
00-02	21.9	32.6	24.6	20.9		45.5	8.3	930
03-05	14.6	40.0	24.7	20.6		45.4	11.6	930
06-08	6.2	40.0	34.1	19.7		53.8	14.2	930
09-11	5.1	43.3	33.4	18.2		51.6	12.5	930
12-14	.8	51.3	28.9	18.9	.1	48.0	13.8	930
15-17	.8	49.2	31.9	18.1		50.0	15.5	930
18-20	4.9	43.4	30.4	21.0	.2	51.6	13.1	930
21-23	17.0	36.5	24.0	22.6		46.6	9.5	930
ALL HOURS	8.0	42.0	29.0	19.0	.0	49.0	12.0	7440

MONTH: AUG HOURS: ALL

00-02	20.0	34.7	22.4	22.8	.1	45.3	5.7	930
03-05	17.6	38.8	24.0	19.4	.2	43.5	8.0	930
06-08	8.5	42.8	30.9	17.8		48.7	12.6	930
09-11	7.1	42.9	32.0	18.0		50.0	8.2	930
12-14	1.4	48.8	31.6	18.2		49.8	8.0	930
15-17	3.0	46.1	33.2	17.6		50.9	8.9	930
18-20	4.9	44.8	31.5	18.7		50.2	8.5	930
21-23	15.5	40.2	24.4	19.9		44.3	5.8	930
ALL HOURS	9.8	42.4	28.8	19.0	.0	47.8	8.2	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	AIRWAY CLASSES OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	26.2	30.7	23.3	19.6	.2	43.1	5.7	900
03-05	24.3	32.9	21.7	20.6	.6	42.8	6.3	900
06-08	12.3	34.3	31.2	21.7	.4	53.3	7.0	900
09-11	9.3	40.0	29.8	20.9		50.7	4.8	900
12-14	5.3	44.1	29.7	20.9		50.6	3.7	900
15-17	5.9	43.7	30.3	20.1		50.4	5.4	900
18-20	10.1	42.4	25.6	21.9		47.4	4.4	900
21-23	23.9	33.8	18.6	23.8		42.3	4.1	900
ALL HOURS	14.0	37.0	26.0	21.0	.0	47.0	5.0	7200

MONTH: OCT HOURS: ALL

00-02	35.7	24.4	15.1	24.3	.5	39.9	4.2	930
03-05	34.0	25.7	14.8	23.4	2.0	40.3	4.5	930
06-08	10.4	41.2	23.0	22.9	2.5	48.4	6.1	930
09-11	10.8	39.2	27.3	22.4	.3	50.0	3.5	930
12-14	8.4	40.0	27.0	24.5	.1	51.6	1.2	930
15-17	7.1	41.7	28.4	22.8		51.2	1.9	930
18-20	15.3	39.2	22.5	23.0		45.5	1.6	928
21-23	29.1	29.3	16.2	25.1	.2	41.5	2.6	927
ALL HOURS	18.8	35.1	21.8	23.6	.7	46.1	3.2	7435

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV HOURS:ALL

HOURS (LST)	CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
	AIRWAY CLASSES							
00-02	34.1	22.7	13.6	27.7	2.0	43.2	3.8	900
03-05	34.0	21.4	14.0	27.1	3.4	44.6	4.8	900
06-08	16.1	31.7	22.3	26.3	3.6	52.2	5.4	900
09-11	9.4	35.4	25.1	28.6	1.4	55.1	4.6	900
12-14	7.3	36.8	29.4	26.1	.3	55.9	2.8	900
15-17	7.0	36.1	31.8	25.1		56.9	1.6	900
18-20	19.2	30.6	22.6	26.9	.8	50.2	1.0	900
21-23	29.0	25.2	16.3	28.6	.9	45.8	2.0	900
ALL HOURS	19.0	29.0	21.0	27.0	1.0	50.0	3.0	7200

MONTH: DEC HOURS: ALL

00-02	30.9	21.8	16.1	29.6	1.6	47.3	2.9	930
03-05	29.9	20.0	15.4	32.2	2.6	50.1	4.0	930
06-08	15.5	31.2	21.7	29.4	2.3	53.3	5.5	930
09-11	8.4	32.7	26.5	31.7	.8	58.9	4.6	930
12-14	7.0	34.7	26.3	31.8	.1	58.3	1.8	930
15-17	6.9	35.8	25.7	31.5	.1	57.3	1.8	930
18-20	20.0	29.7	17.7	31.6	1.0	50.3	2.0	930
21-23	28.1	22.6	17.2	31.0	1.2	49.4	2.4	930
ALL HOURS	18.3	28.6	20.8	31.1	1.2	53.1	3.1	7440

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: ALL HOURS: ALL

HOURS (LST)	AIRWAY CLASSES CLEAR	SCATTERED	BROKEN	OVERCAST	TOTAL OBSCURATION	GT 1/2	PARTIAL OBSCURATION	TOTAL OBS
00-02	29.2	25.0	17.1	27.3	1.4	45.8	3.8	10959
03-05	26.4	27.4	17.1	27.2	1.8	46.2	5.1	10959
06-08	13.2	33.6	24.7	26.8	1.7	53.2	6.5	10959
09-11	9.5	35.6	26.6	27.4	.9	54.9	4.7	10959
12-14	6.5	38.6	27.2	27.4	.4	55.0	4.0	10959
15-17	6.3	38.3	29.0	26.2	.3	55.4	4.6	10959
18-20	12.1	36.5	23.4	27.1	.8	51.4	4.0	10957
21-23	24.7	29.0	17.4	27.8	1.1	46.3	3.2	10956
ALL HOURS	16.0	33.0	22.8	27.1	1.1	51.0	4.5	87667

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          EEEEEEEEEE
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT          EEEEEEEEEE
PP      PP    AA      AA    RR      RR        TT              EE
PP      PP    AA      AA    RR      RR        TT              EE
PPPPPPPPP     AA      AA    RRRRRRRRR         TT              EEEEEE
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT              EEEEEE
PP            AAAAAAAAAA    RR    RR          TT              EE
PP            AA      AA    RR     RR         TT              EE
PP            AA      AA    RR      RR        TT              EEEEEEEEEE
PP            AA      AA    RR       RR       TT              EEEEEEEEEE
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PART E

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

TEMPERATURE--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).
THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5, GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY" PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

MONTHLY TEMPERATURES.
ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. MONTHLY RECORD TEMPRATURES (MAX AND MIN) ARE GIVEN, ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

MEAN MONTHLY TEMPERATURE.
ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN. THE MEAN NUMBER OF HOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29, "ENGINEERING WEATHER DATA," AND AWSP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, WET BULB TEMPERATURES ARE NOT REPORTED (FMH-1B). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCEEDING THE MEAN DRY BULB TEMPERATURES.

TEMPERATURE CONVERSIONS: $F = 1.8C + 32$

$C = K - 273.0$ (BEFORE 5 APRIL 77)
$C = K - 273.2$ (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).
CREATED FROM HOURLY OBSERVATIONS, THESE TABLES GIVE POF OF RELATIVE HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED. THE DATA IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3610-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 105								.1					.0
GE 100						.3	.4	.4					.1
GE 95				.1	.4	4.2	6.7	4.3	1.1	.1			1.4
GE 90			.1	.9	4.0	19.7	31.1	23.3	7.9	.8			7.4
GE 85			.8	4.6	15.0	43.1	61.1	52.7	24.6	3.2	.1		17.2
GE 80		.1	3.5	13.1	34.1	67.3	85.5	81.6	47.5	10.5	1.6		29.0
GE 75	.7	1.5	8.8	24.4	54.4	86.2	98.3	96.3	73.4	24.9	7.5	.5	40.0
GE 70	3.4	5.5	16.6	38.9	72.4	96.9	99.9	99.8	91.4	50.1	18.9	4.5	50.2
GE 65	9.0	11.4	26.4	54.8	88.4	99.4	100.0	100.0	97.9	72.3	33.7	12.4	59.2
GE 60	17.7	20.6	39.2	72.5	97.1	100.0			99.8	90.0	52.8	22.2	68.0
GE 55	26.7	32.1	54.5	88.7	99.7				100.0	97.0	69.6	34.7	75.6
GE 50	37.4	45.6	72.0	96.9	100.0					99.3	86.5	50.6	82.6
GE 45	54.2	62.2	86.7	99.6						99.9	95.2	71.5	89.3
GE 40	71.7	80.1	96.4	100.0						100.0	99.2	85.0	94.5
GE 35	85.9	92.4	99.0								100.0	94.8	97.7
GE 33	90.5	95.3	99.8									97.2	98.6
GE 30	95.7	98.5	99.9									98.9	99.4
GE 25	99.0	99.7	100.0									99.8	99.9
GE 20	99.8	100.0										99.9	100.0
GE 15	99.9											100.0	100.0
GE 10	100.0												100.0
MEAN	47.0	49.5	57.1	66.7	75.3	82.8	86.1	84.9	79.1	69.3	60.2	50.7	67.5
SD	11.61	11.34	11.51	10.28	8.54	7.20	5.89	5.78	7.21	7.97	9.57	10.53	16.50
TOTAL OBS	1612	1497	1643	1590	1643	1590	1643	1643	1589	1673	1590	1627	19340

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3610-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 80						.2	.8	.7					.1
GE 75					.1	6.5	22.5	21.2	5.1	.1			4.7
GE 70					4.0	38.6	71.2	65.2	29.1	2.0	.1		17.7
GE 65			.6	1.7	21.7	68.5	92.3	88.3	57.6	11.3	.7		28.8
GE 60	.2	.4	2.5	9.7	47.0	87.9	98.8	97.7	78.2	27.3	4.5	.5	38.2
GE 55	1.2	1.3	5.4	23.3	71.0	97.2	100.0	99.8	92.1	47.6	12.3	2.3	46.5
GE 50	3.2	3.4	13.1	44.7	88.9	99.4		100.0	98.2	66.5	25.0	6.2	54.4
GE 45	7.8	10.0	28.4	68.2	97.1	99.9			99.9	84.8	41.7	15.5	63.2
GE 40	19.7	23.8	50.2	88.2	99.6	100.0			100.0	95.2	63.6	30.4	72.9
GE 35	38.1	43.7	72.4	96.9	100.0					99.1	82.7	49.5	82.1
GE 33	46.3	52.0	80.4	98.4						99.8	88.2	58.5	85.5
GE 30	59.1	66.1	91.0	99.8						99.9	95.0	71.5	90.4
GE 25	78.0	85.4	98.1	100.0						100.0	99.1	87.6	95.8
GE 20	90.8	94.7	99.8								100.0	96.5	98.5
GE 15	96.8	99.1	99.9									99.0	99.6
GE 10	98.8	99.9	100.0									99.8	99.9
GE 5	99.9	100.0										100.0	100.0
GE 0	99.9												100.0
GE -5	100.0												100.0
MEAN	31.7	33.3	40.0	48.6	58.5	66.8	71.2	70.6	65.0	53.7	43.2	34.9	51.6
SD	9.38	8.64	8.49	7.83	6.97	5.78	4.32	4.79	6.71	8.57	8.96	9.18	16.14
TOTAL OBS	1612	1497	1643	1590	1643	1590	1643	1643	1589	1673	1590	1627	19345

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 90						.1	.3	.2					.1
GE 85					.1	3.7	10.6	7.3	1.7	.1			2.0
GE 80				.3	3.2	25.3	47.5	40.7	13.3	1.0			11.0
GE 75			.5	2.3	16.4	55.9	81.2	75.7	37.4	4.1	.1		23.0
GE 70		.2	2.2	9.9	39.7	80.5	97.4	95.3	67.1	14.9	2.2	.1	34.4
GE 65	.9	1.2	6.5	22.3	63.6	96.0	100.0	99.6	86.8	36.5	8.2	1.2	43.9
GE 60	3.1	3.7	14.4	41.1	84.1	99.2		100.0	97.4	61.4	20.4	4.7	52.5
GE 55	7.9	9.9	25.3	60.9	95.7	100.0			99.9	83.0	38.1	12.1	61.5
GE 50	17.3	21.4	42.7	83.5	99.8				100.0	94.2	58.5	24.2	70.5
GE 45	28.3	35.9	63.8	95.2	100.0					98.8	79.3	40.6	78.9
GE 40	48.2	55.1	84.6	99.5						99.8	92.6	62.8	87.1
GE 35	67.6	76.8	95.3	100.0						100.0	98.4	81.4	93.4
GE 33	75.3	83.0	97.3								99.3	87.4	95.3
GE 30	84.8	91.0	98.9								99.9	92.9	97.3
GE 25	94.2	98.1	99.9								100.0	98.6	99.2
GE 20	98.5	99.7	100.0									99.7	99.3
GE 15	99.6	100.0										99.9	100.0
GE 10	99.9											100.0	100.0
GE 5	100.0												100.0
MEAN	39.5	41.6	48.7	57.8	67.0	75.0	78.9	77.9	72.2	61.7	51.9	43.0	59.1
SD	9.95	9.45	9.43	8.44	7.12	5.99	4.62	4.84	6.41	7.55	8.70	9.33	16.03
TOTAL OBS	1612	1497	1643	1590	1643	1590	1643	1643	1589	1673	1590	1627	19348

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
36										83	79	64*	83*
37		74	78	90	92	97	97	93	90	84	72	70	97*
38	66	75	84	86	87	91	94	95	90	83	81	65	95
39	69	76	85	86	92	94	92	94	96	91	74	69	96
40	61	65	75	82	91	96	103	91	92	82	74	72	103
41	66	55	68	91	97	92	98	96	95	95	76	70	98
42	67	66	79	91	94	100	101	98	92	80	77	74	101
43	78	76	80	89	91	95	95	96	96	81	74	71	96
44	76	71	83	85	92	102	98	97	98	85	72	66	102
45	63	76	90	87	89	97	98	93	92	82	82	59	98
46	73	75	80	89	87	93	92	91	91	85	79	74	93
47	74	68	70	83	92	98	94	93	93	85	70	68	98
48	66	78	88	87	88	96	96	99	91	79	80	68	99
49	74	77	83	86	90	97	97	95	88	85	76	70	97
50	77	68	83	84	94	97	95	93	93	82	85	71	97
51	73	76	71	87	90	95	96	96	91	89	76	78	96
52	75	65	85	92	90	100	101	92	94	87	78	71	101
53	73	74	71	85	94	92	99	97	95	83	78	70	99
54	70	77	85	88	90	97	99	99	98	94	71	67	99
55	68	73	80	88	92	92	97	96	88	84	83	72	97
56	68	72	81	88	95	95	100	94	93	81	78	77	100
57	72	69	73	91	90	97	99	98	93	75	74	68	99
58	60	65	61	83	87	94	96	94	92	87	77	67	96
59	70	73	81	86	90	96	92	96	91	89	81	68	96
60	71	72	81	95	89	97	94	95	89	83	76	68	97
61	60	74	81	87	85	89	92	92	93	80	79	70	93
62	65	74	76	84	89	89	89	92	89	85	67	58	92
63	68	69	79	91	95	92	94	93	86	87	72	64	95
64	66	63	80	84	88	97	90	90	89	77	78	73	97
65	73	72	71	81	92	91	92	93	88	78	77	69	93
66	73	69	82	83	84	90	95	91	89	78	78	76	95
67	76	71	82	90	88	91	93	90	81	83	72	72	93
68	66	60	83	79	88	96	98	97	88	87	82	70	98
69	67	55	74	83	95	95	96	91	89	79	72	64	96
70	77	65	69	82	91	95	94	91	92	84	71	69	95

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	68	74	77	84	88	95	94	90	86	82	82	77	95
72	68	77	80	85	81	89	94	90	89	82	80	72	94
73	67	65	83	82	88	89	93	93	91	86	81	72	93
74	75	68	82	87	89	92	94	92	90	81	83	69	94
75	75	79	81	82	87	93	91	93	87	83	77	70	93
76	72	79	82	87	87	89	95	93	93	76	69	61	95
77	54	76	76	86	89	93	97	99	94	90	78	70	99
78	67	64	74	85	86	91	94	96	92	82	77	77	96
79	66	56	84	84	81	87	93	97	89	82	78	66	97
80	63	71	75	81	88	99	99	105	98	85	74	73	105
81	62	69	72	89	93	100	97	96	90	86	73	66	100
82	63	65	74	81	87	87	89	89	89	80	78	76	89
83	59	67	79	87	89	94	98	102	99	86	75	67	102
84	65	70	69	79	92	94	95	92	94	88	74	74	95
85	76	80	86	94	87	89	92	93	96	89	77	70	96
86	70	73	84	80	92	98	99	98	91	91	81	71	99
87	66	60	73	77	94	92	98	97	90	76	80	72	98
88	69	74	77	85	94	98	97	97	87	85	77	72	98
89	71	81	83	82	91	95	95	95	93	85			95*
GREATEST	78	81	90	95	97	102	103	105	99	95	85	78	105
TOTAL OBS	1612	1497	1643	1590	164	1590	1643	1643	1589	1673	1590	1627	1934

THE GREATEST VALUE OF 105 OCCURRED ON 08/01/80

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
36										40	24	30*	24*
37		21	12	33	44	57	62	61	50	35	25	22	12*
38	19	26	24	40	49	49	59	63	50	43	24	22	19
39	20	22	30	32	40	62	60	61	53	38	25	20	20
40	5	12	22	28	42	56	58	60	51	32	28	19	5
41	20	20	21	36	43	54	65	58	54	42	29	24	20
42	5	15	30	35	54	60	67	57	52	35	27	8	5
43	20	12	16	31	44	65	64	60	47	40	29	16	12
44	15	21	26	30	50	56	62	56	53	38	30	24	15
45	19	16	32	40	41	50	60	57	64	37	27	18	16
46	18	26	33	35	46	50	56	53	51	43	31	22	18
47	22	13	19	40	41	55	59	68	46	42	30	23	13
48	12	14	25	40	48	58	61	59	57	39	36	14	12
49	27	26	25	36	49	53	70	66	48	47	30	27	25
50	26	19	20	28	43	55	66	60	46	44	21	19	19
51	21	12	29	37	48	58	63	60	47	45	26	14	12
52	21	27	29	38	51	59	63	59	53	33	32	22	21
53	27	27	29	36	55	52	65	63	57	44	32	19	19
54	18	22	27	34	44	53	64	58	55	38	31	16	16
55	15	17	25	37	45	56	61	64	59	40	20	18	15
56	21	23	27	33	37	56	60	62	53	47	26	29	21
57	14	27	33	35	46	61	64	62	56	35	29	14	14
58	18	10	32	36	50	54	69	65	52	42	23	11	10
59	13	20	31	40	47	55	66	63	53	43	25	28	13
60	21	26	20	36	41	56	64	68	53	35	27	13	13
61	8	15	24	30	40	49	59	57	49	36	28	20	8
62	13	20	25	31	43	51	55	59	47	26	27	10	10
63	17	17	31	40	37	56	58	55	47	36	28	14	14
64	17	24	26	30	45	53	63	54	50	35	23	22	17
65	13	9	25	31	47	47	57	50	52	31	27	18	9
66	13	19	25	31	35	48	58	61	48	32	29	22	13
67	16	15	21	34	41	43	55	60	44	34	24	21	15
68	15	13	24	39	41	55	64	55	54	36	29	18	13
69	15	25	26	36	42	59	66	56	47	34	24	21	15
70	7	15	27	31	46	56	64	62	46	39	21	21	7

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: 3610-8910
LST TO UTC: +05 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	14	14	29	37	44	59	61	58	51	49	30	24	14
72	6	22	29	31	47	52	55	58	51	36	26	19	6
73	13	14	25	31	41	58	61	66	56	37	32	23	13
74	25	25	26	37	43	56	62	61	53	34	25	25	25
75	21	25	25	33	46	57	61	64	54	38	31	18	18
76	15	26	28	34	40	51	63	56	48	33	24	19	15
77	7	15	35	40	45	51	65	62	57	41	27	19	7
78	17	18	22	42	41	59	57	69	57	38	35	23	17
79	21	13	30	36	48	52	57	60	55	36	25	18	13
80	22	15	23	39	45	53	66	64	54	38	30	15	15
81	7	19	26	39	47	61	66	61	49	38	28	19	7
82	10	24	23	29	49	58	61	55	56	40	35	24	10
83	22	22	32	32	48	56	63	64	49	45	36	8	8
84	14	24	25	38	47	52	63	65	54	49	29	25	14
85	-3	19	28	32	46	53	63	60	51	45	36	16	-3
86	15	20	21	40	41	57	61	5[illegible]	50	41	28	23	15
87	13	21	26	35	47	59	61	60	53	36	30	28	13
88	17	18	25	37	44	52	60	65	54	37	32	21	17
89	24	20	27	32	43	60	60	65	52	41			20*
LEAST	-3	9	12	28	35	43	55	50	44	26	20	8	-3
TOTAL OBS	1612	1497	1643	1590	1643	1590	1643	1643	1589	1673	1590	1627	19340

THE LEAST VALUE OF -3 OCCURRED ON 01/21/85

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
36										63	49	42*	53*
37		40	45	56	67	77	79	79	69	59	49	40	60*
38	40	46	54	60	66	73	79	79	71	60	54	43	60
39	43	47	50	58	67	77	77	79	74	63	47	42	60
40	28	39	45	53	66	77	78	76	69	58	51	46	57
41	38	36	43	59	69	74	79	77	75	67	53	45	60
42	39	38	50	59	70	77	81	77	74	62	53	40	60
43	41	43	48	55	70	80	79	78	70	59	49	40	59
44	40	42	47	56	71	77	79	77	74	61	50	39	60
45	36	42	59	62	66	76	78	76	76	61	54	37	60
46	41	44	55	57	67	72	75	73	70	64	56	47	60
47	47	35	41	58	68	74	77	79	74	66	50	41	59
48	34	41	52	58	67	75	80	77	72	58	56	45	60
49	47	48	49	57	66	76	82	79	71	66	51	45	62
50	53	43	46	55	65	75	78	76	72	65	50	38	60
51	44	43	48	58	66	75	80	79	73	65	49	46	60
52	46	44	50	61	68	79	81	79	73	59	52	43	61
53	47	47	51	59	72	75	81	79	74	64	52	46	62
54	42	47	49	62	65	76	79	79	75	65	49	41	61
55	38	42	52	61	69	72	83	81	74	63	51	38	60
56	37	45	48	56	65	76	79	78	71	64	51	52	60
57	39	44	49	62	69	78	80	76	75	58	54	47	61
58	37	36	44	58	67	73	82	79	71	62	55	36	58
59	39	44	50	61	70	77	79	81	75	66	52	46	62
60	42	42	39	63	67	76	78	79	72	60	51	35	59
61	34	43	51	54	63	72	78	77	75	60	52	41	58
62	39	42	45	57	68	73	74	75	68	61	48	36	57
63	36	36	52	59	64	73	77	76	67	60	52	35	57
64	42	40	50	55	66	74	77	74	71	56	54	46	59
65	40	41	44	54	69	72	76	76	73	59	51	42	58
66	35	40	49	54	63	72	78	75	70	59	50	42	57
67	44	40	49	59	61	70	76	75	66	58	46	44	57
68	35	35	50	56	63	74	79	81	71	64	54	41	59
69	38	40	45	59	67	77	80	76	69	61	48	39	58
70	33	39	43	55	68	76	77	77	74	63	52	44	59

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: +05

PERIOD OF RECORD: 3610-8910
MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
71	37	45	47	56	65	76	78	77	74	68	52	52	61
72	45	41	49	57	65	71	78	76	72	60	51	48	59
73	39	39	52	57	66	76	79	79	75	64	54	46	61
74	49	43	52	60	66	72	78	78	71	58	52	46	61
75	45	45	48	54	67	76	77	79	72	63	56	44	61
76	39	51	53	60	65	74	79	76	69	55	43	39	59
77	29	42	56	62	68	75	81	81	77	62	55	44	61
78	37	31	45	57	65	75	77	83	73	60	57	45	59
79	39	34	50	57	67	71	78	79	72	59	55	43	59
80	38	36	48	60	69	74	82	82	76	62	49	42	60
81	33	43	46	61	66	80	81	76	72	60	50	40	59
82	35	39	45	55	69	72	77	74	72	61	54	49	59
83	40	41	52	57	67	75	82	81	74	64	54	42	61
84	37	48	47	57	69	78	78	80	72	69	50	51	61
85	35	41	52	64	69	74	80	77	74	66	58	41	61
86	40	43	52	58	69	77	82	78	73	65	53	44	61
87	39	38	46	55	68	77	82	80	75	57	55	47	60
88	37	43	50	57	67	75	81	81	70	57	54	43	60
89	46	44	49	55	67	78	78	78	73	63			63*
MEAN	39.5	41.6	48.7	57.8	67.0	75.0	78.9	77.9	72.2	61.7	51.9	43.0	59.7
TOTAL OBS	1612	1497	1643	1590	1643	1590	1643	1643	1589	1673	1590	1627	19340

NOTE: *THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	35.3	9.297	930	1	330	1	0	0	930
03-05	34.5	9.420	930	3	354	0	0	0	930
06-08	34.0	9.578	930	3	387	0	0	0	930
09-11	38.6	9.641	930	1	222	4	0	0	930
12-14	42.4	10.427	930	0	155	22	0	0	930
15-17	42.1	10.439	930	0	164	16	0	0	930
18-20	38.3	9.585	930	0	244	3	0	0	930
21-23	36.4	9.422	930	0	290	3	0	0	930
ALL HOURS	37.7	10.177	7440	8	2146	49	0	0	7440

MONTH: FEB

00-02	38.7	9.660	849	0	248	6	0	0	849
03-05	37.5	9.785	849	0	299	3	0	0	849
06-08	37.4	9.901	849	0	295	3	0	0	849
09-11	42.4	10.304	849	0	130	24	0	0	849
12-14	46.2	11.001	849	0	72	63	0	0	849
15-17	45.8	10.625	849	0	68	55	2	0	849
18-20	41.8	9.790	849	0	129	24	0	0	849
21-23	39.9	9.662	849	0	195	9	0	0	849
ALL HOURS	41.2	10.634	6792	0	1436	187	2	0	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	44.8	9.242	930	0	71	18	0	0	930
03-05	43.4	9.287	930	0	100	14	0	0	930
06-08	44.1	9.535	930	0	93	24	0	0	930
09-11	50.4	10.418	930	0	29	99	3	0	930
12-14	53.9	11.228	930	0	15	181	10	0	930
15-17	53.6	10.955	930	0	18	169	10	0	930
18-20	49.0	9.628	930	0	30	57	1	0	930
21-23	46.5	9.080	930	0	43	29	0	0	930
ALL HOURS	48.2	10.661	7440	0	399	591	24	0	7440

MONTH: APR

00-02	53.2	7.817	900	0	3	72	0	0	900
03-05	51.8	7.840	900	0	5	42	0	0	900
06-08	53.7	7.859	900	0	3	72	0	0	900
09-11	60.2	8.734	900	0	0	281	12	0	900
12-14	63.6	9.696	900	0	0	409	51	1	900
15-17	63.3	9.656	900	0	0	399	51	2	900
18-20	58.7	8.802	900	0	1	226	14	0	900
21-23	55.6	8.043	900	0	0	119	0	0	900
ALL HOURS	57.5	9.626	7200	0	12	1620	128	3	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	63.0	7.130	930	0	0	406	2	0	930
03-05	61.4	7.009	930	0	0	349	0	0	930
06-08	64.2	6.999	930	0	0	459	8	0	930
09-11	70.6	7.840	930	0	0	712	132	0	930
12-14	74.0	8.576	930	0	0	791	279	3	930
15-17	73.7	8.681	929	0	0	786	257	5	929
18-20	68.9	8.118	930	0	0	635	109	0	930
21-23	65.4	7.406	930	0	0	506	9	0	930
ALL HOURS	67.6	8.955	7439	0	0	4644	796	3	7439

MONTH: JUN

00-02	70.9	5.682	900	0	0	773	46	0	900
03-05	69.5	5.725	900	0	0	707	14	0	900
06-08	72.5	5.346	900	0	0	817	67	0	900
09-11	78.5	6.024	900	0	0	886	425	4	900
12-14	81.7	6.866	900	0	0	890	575	47	900
15-17	81.3	7.288	900	0	0	889	533	54	900
18-20	76.7	6.526	900	0	0	876	290	7	900
21-23	73.0	5.644	900	0	0	843	120	0	900
ALL HOURS	75.5	7.607	7200	0	0	6681	2070	112	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	75.3	4.436	930	0	0	915	164	0	930
03-05	73.9	4.229	930	0	0	903	64	0	930
06-08	76.3	4.340	930	0	0	924	221	0	930
09-11	82.4	5.223	930	0	0	930	664	17	930
12-14	85.6	5.967	930	0	0	930	770	110	930
15-17	85.0	6.309	930	0	0	930	740	118	930
18-20	80.8	5.623	930	0	0	930	527	20	930
21-23	77.4	4.551	930	0	0	929	305	0	930
ALL HOURS	79.6	6.636	7440	0	0	7391	3455	265	7440

MONTH: AUG

00-02	74.3	4.583	930	0	0	897	120	0	930
03-05	73.1	4.372	930	0	0	882	47	0	930
06-08	74.9	4.587	930	0	0	906	143	0	930
09-11	80.7	5.330	930	0	0	929	552	8	930
12-14	83.7	6.257	930	0	0	927	700	71	930
15-17	83.0	6.219	929	0	0	926	655	54	929
18-20	78.8	5.494	930	0	0	922	420	8	930
21-23	75.9	4.852	930	0	0	913	223	1	930
ALL HOURS	78.1	6.551	7439	0	0	7302	2860	142	7439

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	69.0	6.439	900	0	0	668	26	0	900
03-05	67.8	6.431	900	0	0	630	9	0	900
06-08	69.1	6.399	900	0	0	692	22	0	900
09-11	75.1	6.508	899	0	0	849	207	0	899
12-14	78.2	7.299	900	0	0	876	370	36	900
15-17	77.4	7.302	899	0	0	877	328	26	899
18-20	2.9	6.654	900	0	0	803	141	1	900
21-23	70.4	6.295	900	0	0	734	55	0	900
ALL HOURS	72.5	7.640	7198	0	0	6129	1158	63	7198

MONTH: OCT

00-02	58.4	8.307	930	0	0	240	3	0	930
03-05	57.3	8.380	930	0	0	212	0	0	930
06-08	58.2	8.223	930	0	0	240	0	0	930
09-11	64.9	7.509	930	0	0	478	26	0	930
12-14	68.2	8.128	929	0	0	605	89	0	929
15-17	67.2	8.145	930	0	0	569	70	0	930
18-20	62.1	7.915	928	0	0	366	12	0	928
21-23	59.8	7.997	927	0	0	292	3	0	927
ALL HOURS	62.0	9.039	7434	0	0	3002	203	0	7434

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	50.3	9.192	900	0	25	53	0	0	900
03-05	49.1	9.205	900	0	27	38	0	0	900
06-08	49.0	9.146	900	0	25	34	0	0	900
09-11	55.0	8.850	900	0	1	145	0	0	900
12-14	58.8	9.395	900	0	0	272	2	0	900
15-17	57.6	9.128	900	0	0	222	1	0	900
18-20	53.3	8.696	900	0	0	107	0	0	900
21-23	51.5	9.121	900	0	12	76	0	0	900
ALL HOURS	53.1	9.720	7200	0	90	947	3	0	7200

MONTH: DEC

00-02	41.6	10.209	930	0	163	16	0	0	930
03-05	40.6	10.275	930	0	185	11	0	0	930
06-08	40.0	10.329	930	0	203	10	0	0	930
09-11	45.0	9.770	929	0	77	28	0	0	929
12-14	49.0	10.387	930	0	43	81	0	0	930
15-17	48.0	10.591	930	0	62	77	0	0	930
18-20	44.3	10.333	930	0	110	37	0	0	930
21-23	42.6	10.353	930	0	147	25	0	0	930
ALL HOURS	43.9	10.767	7439	0	990	285	0	0	7439

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	56.3	15.832	10959	1	840	4065	361	0	10959
03-05	55.1	15.732	10959	3	970	3791	134	0	10959
06-08	56.2	16.634	10959	3	1006	4181	461	0	10959
09-11	62.1	17.090	10957	1	459	5365	2021	29	10957
12-14	65.5	17.225	10958	0	285	6047	2846	268	10958
15-17	64.9	17.200	10956	0	312	5915	247	259	10956
18-20	60.6	16.707	10957	0	514	4986	1514	36	10957
21-23	58.0	16.076	10956	0	687	4478	715	1	10956
ALL HOURS	59.8	17.002	87661	8	5073	38828	10699	593	87661

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	32.2	9.218	930	461	33	0	0	0	930
03-05	31.6	9.396	930	495	40	0	0	0	930
06-08	31.3	9.623	930	514	36	0	0	0	930
09-11	34.4	9.341	930	371	52	0	0	0	930
12-14	36.7	9.385	930	281	77	1	0	0	930
15-17	36.5	9.355	930	298	76	0	0	0	930
18-20	34.2	9.214	930	392	51	0	0	0	930
21-23	33.0	9.307	930	444	48	0	0	0	930
ALL HOURS	33.7	9.552	7440	3256	413	1	0	0	7440

MONTH: FEB

00-02	35.5	9.716	849	364	92	0	0	0	849
03-05	34.6	9.971	849	402	88	0	0	0	849
06-08	34.6	10.087	849	404	83	0	0	0	849
09-11	37.8	10.023	849	255	123	3	0	0	849
12-14	40.0	9.976	849	175	152	8	2	0	849
15-17	39.7	9.476	849	188	139	4	0	0	849
18-20	37.4	9.215	849	277	98	0	0	0	849
21-23	36.4	9.379	849	304	93	0	0	0	849
ALL HOURS	37.0	9.934	6792	2369	868	15	2	0	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	40.6	9.160	930	171	168	0	0	0	930
03-05	39.7	9.366	930	217	159	0	0	0	930
06-08	40.2	9.550	930	203	174	0	0	0	930
09-11	44.0	9.592	930	86	241	5	0	0	930
12-14	45.8	9.494	930	60	300	10	0	0	930
15-17	45.5	8.987	930	66	279	6	0	0	930
18-20	43.1	8.696	930	95	207	0	0	0	930
21-23	41.8	8.836	930	116	183	0	0	0	930
ALL HOURS	42.6	9.489	7440	1014	1711	21	0	0	7440

MONTH: APR

00-02	49.0	7.570	900	10	436	1	0	0	900
03-05	48.0	7.787	900	12	396	0	0	0	900
06-08	49.1	7.708	900	14	431	1	0	0	900
09-11	52.5	7.782	900	8	561	11	0	0	900
12-14	53.9	7.897	900	0	631	47	0	0	900
15-17	53.7	7.570	900	0	624	32	1	0	900
18-20	51.7	7.611	899	6	543	7	0	0	899
21-23	50.3	7.664	900	10	479	5	0	0	900
ALL HOURS	51.0	7.948	7199	60	4101	104	1	0	7199

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	58.7	7.054	930	0	817	134	6	0	930
03-05	57.9	7.226	930	0	781	112	2	0	930
06-08	59.5	7.169	930	0	836	172	13	0	930
09-11	62.4	7.345	930	0	888	317	66	0	930
12-14	63.7	7.327	930	0	907	381	105	0	930
15-17	63.3	7.178	929	0	914	349	93	3	929
18-20	61.3	7.167	930	0	881	261	45	1	930
21-23	60.0	7.251	930	0	855	214	27	0	930
ALL HOURS	60.8	7.499	7439	0	6879	1940	357	4	7439

MONTH: JUN

00-02	66.4	5.675	900	0	898	508	115	0	900
03-05	65.5	5.845	900	0	[illegible]	465	87	0	900
06-08	67.2	5.509	900	0	900	545	164	1	900
09-11	69.5	5.710	900	0	900	619	342	8	900
12-14	70.4	5.981	900	0	900	643	388	33	900
15-17	70.0	5.721	900	0	900	640	348	18	900
18-20	68.4	5.620	900	0	900	580	249	8	900
21-23	67.3	5.400	900	0	900	537	161	0	900
ALL HOURS	68.1	5.932	7200	0	7193	4537	1854	68	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 OCT 89
LST TO UTC: + 5 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	70.8	4.262	930	0	930	768	358	3	930
03-05	70.0	4.260	930	0	930	745	307	0	930
06-08	71.5	4.096	930	0	930	801	419	4	930
09-11	73.6	4.340	930	0	930	863	610	44	930
12-14	74.4	4.418	930	0	930	877	644	101	930
15-17	74.0	4.200	930	0	930	876	622	77	930
18-20	72.7	4.163	930	0	930	855	513	29	930
21-23	71.7	4.078	930	0	930	832	436	12	930
ALL HOURS	72.3	4.452	7440	0	7440	6617	3909	270	7440

MONTH: AUG

00-02	70.4	4.585	930	0	930	739	359	0	930
03-05	69.7	4.731	930	0	930	715	299	1	930
06-08	70.7	4.585	930	0	930	761	388	0	930
09-11	73.0	4.792	930	0	930	835	577	51	930
12-14	73.7	4.976	930	0	930	849	603	91	930
15-17	73.2	4.797	929	0	929	840	572	59	929
18-20	71.9	4.790	930	0	930	784	502	18	930
21-23	70.9	4.637	930	0	930	756	428	1	930
ALL HOURS	71.7	4.886	7439	0	7439	6279	3728	221	7439

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	65.1	6.786	900	0	881	436	126	0	900
03-05	64.3	6.870	900	0	881	398	97	0	900
06-08	65.2	6.772	900	0	886	435	116	0	900
09-11	67.9	6.479	899	0	896	552	237	8	899
12-14	68.7	6.379	900	0	900	570	298	19	900
15-17	68.2	6.242	899	0	899	535	269	13	899
18-20	66.6	6.422	900	0	896	485	183	3	900
21-23	65.8	6.582	900	0	891	463	156	0	900
ALL HOURS	66.5	6.720	7198	0	7130	3874	1482	43	7198

MONTH: OCT

00-02	54.7	8.798	930	0	627	100	2	0	930
03-05	53.9	8.860	930	0	602	76	3	0	930
06-08	54.5	8.621	930	1	632	84	2	0	930
09-11	58.2	7.834	930	0	779	170	25	0	930
12-14	59.3	7.870	929	0	817	210	42	0	929
15-17	58.9	7.839	930	0	799	187	33	0	930
18-20	56.8	8.162	928	0	705	133	12	0	928
21-23	55.5	8.398	927	0	659	111	5	0	927
ALL HOURS	56.3	8.557	7434	1	5620	1071	124	0	7434

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	46.7	9.636	900	56	349	6	0	0	900
03-05	45.9	9.661	900	75	325	7	0	0	900
06-08	45.9	9.505	900	78	324	6	0	0	900
09-11	49.6	9.047	900	18	435	20	1	0	900
12-14	51.4	9.014	900	9	505	40	1	0	900
15-17	50.6	8.850	900	12	474	32	0	0	900
18-20	48.5	9.097	900	35	407	9	0	0	900
21-23	47.4	9.603	900	43	364	5	0	0	900
ALL HOURS	48.2	9.499	7200	326	3183	125	2	0	7200

MONTH: DEC

00-02	38.0	10.344	929	307	132	0	0	0	929
03-05	37.2	10.374	930	354	130	0	0	0	930
06-08	36.8	10.523	930	343	125	0	0	0	930
09-11	40.3	9.932	929	177	172	0	0	0	929
12-14	42.5	10.016	929	136	206	0	0	0	929
15-17	41.8	10.202	930	152	207	0	0	0	930
18-20	39.7	10.462	930	222	160	0	0	0	930
21-23	38.7	10.462	930	267	139	0	0	0	930
ALL HOURS	39.4	10.483	7437	1958	1271	0	0	0	7437

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	52.4	15.590	10958	1369	6293	2692	966	3	10958
03-05	51.6	15.666	10959	1555	6157	2518	795	1	10959
06-08	52.3	16.150	10959	1557	6287	2805	1102	5	10959
09-11	55.3	15.707	10957	915	6907	3395	1858	111	10957
12-14	56.8	15.245	10957	661	7255	3636	2083	244	10957
15-17	56.4	15.128	10956	716	7170	3501	1938	170	10956
18-20	54.4	15.411	10956	1027	6708	3114	1504	59	10956
21-23	53.3	15.514	10956	1184	6471	2923	1213	13	10956
ALL HOURS	54.1	15.662	87658	8984	53248	24584	11459	606	87658

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	26.1	12.508	930	491	182	926	0	930
03-05	25.7	12.411	930	504	167	927	0	930
06-08	25.5	12.491	930	517	166	924	0	930
09-11	26.9	12.682	930	471	196	920	0	930
12-14	27.3	13.021	930	473	210	913	0	930
15-17	27.1	13.085	930	474	212	916	0	930
18-20	26.8	12.843	930	485	203	919	0	930
21-23	26.5	12.705	930	488	197	921	0	930
ALL HOURS	26.5	12.747	7440	3903	1533	7366	0	7440

MONTH: FEB

00-02	29.9	12.471	849	374	244	836	0	849
03-05	29.3	12.862	849	389	238	833	0	849
06-08	29.3	12.856	849	399	230	826	0	849
09-11	30.6	13.268	849	359	269	815	3	849
12-14	31.1	13.333	849	351	275	814	3	849
15-17	30.9	12.776	849	336	268	812	0	849
18-20	30.6	12.187	849	344	239	828	0	849
21-23	30.5	12.165	849	348	239	828	0	849
ALL HOURS	30.3	12.772	6792	2900	2002	6592	6	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	34.6	12.013	930	261	388	897	0	930
03-05	34.3	12.158	930	288	381	895	0	930
06-08	34.5	12.247	930	271	381	884	0	930
09-11	36.0	12.515	930	235	433	862	2	930
12-14	36.3	12.384	930	231	437	864	3	930
15-17	35.9	11.928	930	230	425	874	0	930
18-20	35.3	11.760	930	234	411	882	0	930
21-23	35.4	11.729	930	241	404	882	0	930
ALL HOURS	35.3	12.128	7440	1991	3260	7040	5	7440

MONTH: APR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	44.6	9.573	900	39	710	787	7	900
03-05	43.9	9.745	900	51	688	806	3	900
06-08	44.4	9.694	900	39	717	790	5	900
09-11	45.1	10.446	900	37	708	734	9	900
12-14	45.0	10.600	900	41	690	729	12	900
15-17	44.8	10.480	900	43	698	722	13	900
18-20	44.7	10.418	899	51	693	741	9	900
21-23	45.1	9.941	900	37	720	760	8	900
ALL HOURS	44.7	10.156	7199	338	5624	6069	66	7199

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	55.4	8.485	930	0	915	422	135	930
03-05	55.1	8.652	930	1	913	434	143	930
06-08	56.0	8.904	930	3	916	395	167	930
09-11	56.7	9.661	930	4	918	394	237	930
12-14	56.7	9.764	930	1	912	383	245	930
15-17	56.3	9.619	929	1	914	414	214	929
18-20	55.9	9.192	930	1	917	413	193	930
21-23	56.0	8.831	930	0	914	411	189	930
ALL HOURS	56.0	9.180	7439	11	7319	3266	1523	7439

MONTH: JUN

00-02	63.7	6.715	900	0	900	115	477	900
03-05	63.2	6.851	900	0	900	141	455	900
06-08	64.1	6.734	900	0	900	115	498	900
09-11	64.5	7.537	900	0	900	136	517	900
12-14	64.2	7.896	900	0	900	151	500	900
15-17	63.8	7.582	900	0	900	148	473	900
18-20	63.7	7.169	900	0	900	151	474	900
21-23	64.0	6.719	900	0	900	114	481	900
ALL HOURS	63.9	7.210	7200	0	7200	1071	3875	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	68.5	5.119	930	0	930	11	733	930
03-05	68.1	5.081	930	0	930	22	728	930
06-08	68.9	4.994	930	0	930	17	765	930
09-11	69.5	5.568	930	0	930	30	777	930
12-14	69.3	5.797	930	0	930	21	752	930
15-17	68.9	5.467	930	0	930	17	739	930
18-20	68.8	5.297	930	0	930	16	756	930
21-23	69.0	4.995	930	0	930	8	760	930
ALL HOURS	68.[illegible]	5.354	7440	0	7440	142	6010	7440

MONTH: AUG

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	68.4	5.371	930	0	930	20	721	930
03-05	68.[illegible]	5.633	930	0	930	24	711	930
06-08	68.[illegible]	5.484	930	0	930	25	734	930
09-11	69.4	5.963	930	0	930	26	748	930
12-14	69.[illegible]	6.186	930	0	930	34	724	930
15-17	68.6	6.062	929	0	929	35	709	930
18-20	68.4	5.845	930	0	930	33	713	930
21-23	68.4	5.651	930	0	930	23	705	930
ALL HOURS	68.6	5.844	7439	0	7439	220	5765	7439

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	62.7	8.029	900	0	898	173	436	900
03-05	62.1	7.969	900	0	900	189	425	900
06-08	62.8	7.970	900	0	900	161	433	900
09-11	63.7	8.134	899	0	897	137	463	899
12-14	63.4	8.087	900	0	900	148	447	900
15-17	62.9	8.089	899	0	898	154	428	899
18-20	62.9	7.816	900	0	898	161	438	900
21-23	62.9	7.892	900	0	898	159	455	900
ALL HOURS	62.9	8.034	7198	0	7189	1282	3525	7198

MONTH: OCT

00-02	51.4	10.512	930	6	854	571	115	929
03-05	50.8	10.435	930	6	856	592	99	929
06-08	51.3	10.260	930	5	859	573	107	929
09-11	52.7	10.358	930	2	880	533	138	929
12-14	52.3	10.631	929	2	860	525	139	929
15-17	52.3	10.513	930	1	863	521	136	929
18-20	52.3	10.170	928	2	872	531	124	929
21-23	51.8	10.221	927	4	870	556	110	929
ALL HOURS	51.9	10.421	7434	28	6914	4402	968	7434

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	42.5	12.110	900	95	592	757	14	900
03-05	42.0	11.957	900	106	588	776	9	900
06-08	42.0	11.677	900	101	602	773	9	900
09-11	43.7	11.940	900	80	625	719	24	900
12-14	43.9	12.268	900	75	638	718	28	900
15-17	43.3	12.152	900	84	625	733	13	900
18-20	43.1	12.037	900	83	609	737	9	900
21-23	42.8	12.237	900	91	583	748	14	900
ALL HOURS	42.9	12.087	7200	715	4862	5961	120	7200

MONTH: DEC

00-02	32.1	13.551	929	349	336	887	0	929
03-05	31.6	13.358	[illegible]	368	326	897	0	929
06-08	31.5	13.374	930	361	311	898	0	929
09-11	33.2	13.[illegible]	929	309	354	877	2	929
12-14	33.4	13.974	929	320	358	859	0	929
15-17	33.0	14.189	930	345	367	866	0	929
18-20	32.8	14.121	930	337	375	880	0	929
21-23	32.6	13.712	930	341	379	880	0	929
ALL HOURS	32.5	13.746	7437	2730	2806	7044	2	7437

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	48.4	17.961	10958	1615	7879	6402	2638	10958
03-05	47.9	17.986	10959	1713	7817	6536	2573	10959
06-08	48.3	18.267	10959	1696	7842	6381	2718	10959
09-11	49.4	18.200	10957	1497	8040	6183	2920	10957
12-14	49.4	18.098	10957	1494	8040	6159	2853	10957
15-17	49.1	17.966	10956	1514	8029	6212	2725	10956
18-20	48.9	17.905	10956	1537	7977	6292	2716	10956
21-23	48.8	17.894	10956	1550	7964	6290	2722	10956
ALL HOURS	48.8	18.041	87658	12616	63588	50455	21865	87658

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JAN

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	99.7	98.5	96.0	84.6	67.4	49.7	30.3	13.9	68.8	930
03-05	100.0	100.0	99.4	97.3	88.0	70.0	51.0	31.0	12.5	69.7	930
06-08	100.0	100.0	99.6	97.6	88.2	72.3	51.4	33.7	14.1	70.4	930
09-11	100.0	99.9	98.1	89.4	70.8	53.3	36.8	24.5	10.9	63.0	930
12-14	100.0	99.4	93.1	73.5	55.5	38.9	28.7	18.7	8.7	56.5	930
15-17	100.0	99.4	93.4	74.5	55.1	41.8	28.3	19.4	9.7	56.8	930
18-20	100.0	99.7	97.5	89.0	72.5	55.9	39.8	24.9	11.4	63.9	930
21-23	100.0	99.7	98.5	94.1	80.9	64.9	45.1	30.4	13.3	67.2	30
ALL HOURS	100.0	99.7	97.3	88.9	74.4	58.1	41.3	26.6	11.8	67.2	7440

MONTH: FEB

00-02	100.0	100.0	99.5	96.9	85.0	71.5	55.2	36.9	15.8	70.8	849
03-05	100.0	100.0	99.9	96.9	86.6	72.9	57.1	40.8	17.2	71.9	849
06-08	100.0	100.0	99.9	98.1	88.8	75.0	57.0	38.5	17.4	72.2	849
09-11	100.0	99.9	98.2	89.2	73.0	56.5	38.8	25.2	11.7	63.9	849
12-14	100.0	99.8	94.3	77.5	55.7	42.6	28.9	19.1	8.1	57.3	849
15-17	100.0	99.6	93.8	77.0	58.7	43.5	31.2	21.0	9.5	58.0	849
18-20	100.0	100.0	98.4	88.8	76.4	61.0	42.3	26.9	11.3	65.1	849
21-23	100.0	100.0	99.5	94.3	83.2	70.6	51.8	32.7	13.9	69.3	849
ALL HOURS	100.0	99.9	97.9	89.9	75.9	61.7	45.3	30.1	13.1	69.3	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAR

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	99.2	93.5	83.3	70.9	49.8	31.1	11.0	68.4	930
03-05	100.0	100.0	99.6	95.5	87.2	74.9	56.5	33.8	13.1	70.4	930
06-08	100.0	100.0	99.5	96.7	86.7	69.4	51.5	31.1	13.0	69.2	930
09-11	100.0	100.0	97.6	85.8	66.1	45.3	29.6	17.8	7.7	59.3	930
12-14	100.0	99.5	91.5	74.1	53.1	33.3	20.8	13.3	5.6	53.7	930
15-17	100.0	99.2	88.6	72.7	55.8	35.7	22.3	15.7	6.8	54.0	930
18-20	100.0	99.5	94.6	84.3	71.2	52.8	35.3	19.9	9.5	61.3	930
21-23	100.0	100.0	98.7	91.3	80.6	66.6	45.3	26.8	11.5	66.4	930
ALL HOURS	100.0	99.8	96.2	86.7	73.0	56.1	38.9	23.7	9.8	66.4	7440

MONTH: APR

00-02	100.0	100.0	99.9	97.3	92.9	82.3	61.9	40.3	17.9	73.9	900
03-05	100.0	100.0	99.7	98.1	93.8	84.2	67.9	44.1	19.2	75.5	900
06-08	100.0	100.0	99.7	97.8	92.2	78.4	60.0	35.6	13.9	72.3	900
09-11	100.0	100.0	97.4	87.8	68.7	45.1	29.0	17.6	6.6	59.8	900
12-14	100.0	99.9	93.6	74.3	52.3	33.7	20.7	10.6	5.0	53.4	900
15-17	100.0	99.1	91.7	74.2	53.9	38.0	22.2	12.0	5.4	54.1	900
18-20	100.0	99.8	95.9	86.0	72.9	57.1	38.6	21.8	9.9	62.6	899
21-23	100.0	100.0	99.2	95.1	86.1	74.0	52.4	32.1	12.8	69.6	900
ALL HOURS	100.0	99.8	97.1	88.8	76.6	61.6	44.1	26.8	11.3	69.6	7199

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: MAY

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	97.6	90.5	72.6	48.0	23.9	77.5	930
03-05	100.0	100.0	100.0	100.0	98.4	94.4	79.2	56.8	31.1	80.5	930
06-08	100.0	100.0	100.0	99.4	96.3	86.9	67.0	42.4	22.4	75.8	930
09-11	100.0	100.0	99.8	94.5	79.7	54.7	34.2	17.0	7.0	63.2	930
12-14	100.0	100.0	98.2	86.7	62.3	39.4	23.5	10.6	3.1	56.8	930
15-17	100.0	100.0	97.1	84.1	62.3	41.3	24.5	13.2	4.5	57.0	929
18-20	100.0	100.0	99.6	94.5	80.9	61.1	40.9	23.9	12.3	65.6	930
21-23	100.0	100.0	100.0	99.6	94.6	80.0	58.1	36.2	19.4	73.0	930
ALL HOURS	100.0	100.0	99.3	94.8	84.0	68.5	50.0	31.0	15.4	73.0	7439

MONTH: JUN

00-02	100.0	100.0	100.0	99.8	99.2	95.0	77.0	50.0	20.6	78.8	900
03-05	100.0	100.0	100.0	100.0	99.7	96.6	83.2	59.2	27.1	81.0	900
06-08	100.0	100.0	100.0	100.0	98.6	90.0	71.8	37.7	13.4	75.8	900
09-11	100.0	100.0	100.0	97.4	84.9	64.7	30.7	8.8	2.3	63.5	900
12-14	100.0	100.0	99.4	91.6	71.3	41.0	15.3	3.6	.7	56.8	900
15-17	100.0	100.0	99.1	91.4	67.6	40.9	19.8	6.6	2.0	57.2	900
18-20	100.0	100.0	100.0	97.4	86.7	64.3	40.3	18.7	5.3	65.8	900
21-23	100.0	100.0	100.0	99.9	98.1	87.4	64.9	34.2	12.4	74.3	900
ALL HOURS	100.0	100.0	99.8	97.2	88.3	72.5	50.4	27.3	10.5	74.3	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: JUL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	99.5	97.3	81.9	51.7	23.3	80.0	930
03-05	100.0	100.0	100.0	100.0	99.7	98.4	89.5	64.4	31.0	82.7	930
06-08	100.0	100.0	100.0	100.0	99.4	96.1	81.2	46.3	16.3	78.6	930
09-11	100.0	100.0	100.0	99.2	93.3	71.1	38.6	10.9	2.6	66.2	930
12-14	100.0	100.0	100.0	96.6	78.3	45.9	19.6	7.5	1.3	59.5	930
15-17	100.0	100.0	99.9	96.5	76.6	47.2	23.1	8.8	2.8	60.1	930
18-20	100.0	100.0	100.0	99.1	92.0	72.5	46.3	21.6	6.6	68.2	930
21-23	100.0	100.0	100.0	100.0	99.5	91.8	69.6	38.2	14.8	76.1	930
ALL HOURS	100.0	100.0	100.0	98.9	92.3	775	56.2	31.2	12.3	76.1	7440

MONTH: AUG

00-02	100.0	100.0	100.0	100.0	99.9	98.1	88.9	61.5	24.9	82.3	930
03-05	100.0	100.0	100.0	100.0	99.6	97.5	90.9	72.5	36.7	84.5	930
06-08	100.0	100.0	100.0	100.0	99.7	97.1	87.3	58.8	24.9	81.5	930
09-11	100.0	100.0	100.0	100.0	96.1	81.0	51.5	16.3	4.1	69.5	930
12-14	100.0	100.0	100.0	99.1	86.2	59.4	25.9	7.8	2.4	62.5	930
15-17	100.0	100.0	100.0	99.0	85.5	59.3	27.4	10.1	4.4	63.1	929
18-20	100.0	100.0	100.0	99.9	97.5	83.7	54.7	23.0	8.9	71.5	930
21-23	100.0	100.0	100.0	100.0	99.8	96.2	78.3	43.7	16.3	78.3	930
ALL HOURS	100.0	100.0	100.0	99.8	95.5	84.0	63.1	36.7	15.3	78.3	7439

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: SEP

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	99.8	99.0	96.2	85.7	60.7	24.7	81.0	900
03-05	100.0	100.0	100.0	100.0	99.8	96.3	87.3	67.4	28.9	82.5	900
06-08	100.0	100.0	100.0	100.0	99.6	95.1	85.4	60.0	24.3	80.9	900
09-11	100.0	100.0	99.9	99.1	94.3	78.4	47.6	18.6	5.0	68.9	899
12-14	100.0	100.0	99.8	96.7	82.4	52.7	26.6	9.9	3.2	61.8	900
15-17	100.0	100.0	100.0	97.2	81.1	56.0	29.0	11.5	5.5	62.6	899
18-20	100.0	100.0	100.0	99.7	97.1	82.9	57.8	25.7	10.8	71.9	900
21-23	100.0	100.0	100.0	99.7	98.9	94.0	79.1	45.3	18.8	77.9	900
ALL HOURS	100.0	100.0	100.0	99.0	94.0	81.5	62.3	37.4	15.1	77.9	7198

MONTH: OCT

00-02	100.0	100.0	100.0	99.9	97.5	91.0	75.8	51.5	22.3	78.1	930
03-05	100.0	100.0	100.0	99.9	98.4	92.3	80.3	57.6	25.1	79.7	930
06-08	100.0	100.0	99.9	99.7	98.5	92.0	77.2	53.1	24.4	78.7	930
09-11	100.0	100.0	99.9	97.7	85.3	64.3	40.9	21.4	6.6	66.0	930
12-14	100.0	100.0	99.2	91.2	68.1	43.5	23.5	11.8	4.0	58.6	929
15-17	100.0	100.0	99.8	92.5	73.0	49.8	28.2	14.7	5.7	60.7	930
18-20	100.0	100.0	100.0	99.4	94.5	80.1	56.9	28.9	11.6	71.2	928
21-23	100.0	100.0	100.0	99.6	97.0	87.6	70.3	43.9	17.7	75.8	927
ALL HOURS	100.0	100.0	99.9	97.5	89.0	75.1	56.6	35.4	14.7	75.8	7434

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: NOV

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	99.7	97.8	93.2	81.8	67.4	50.4	21.1	75.6	900
03-05	100.0	100.0	99.8	98.0	95.1	85.9	71.1	51.9	22.3	77.1	900
06-08	100.0	100.0	99.9	98.2	96.0	86.2	73.0	53.2	22.3	77.4	900
09-11	100.0	99.9	98.7	95.7	84.3	65.7	47.0	28.2	10.1	67.3	900
12-14	100.0	99.2	97.2	87.2	68.7	47.1	29.3	17.8	4.8	59.7	900
15-17	100.0	99.6	97.0	88.3	69.9	53.1	33.2	19.1	5.7	60.9	900
18-20	100.0	100.0	99.4	95.9	85.4	71.0	54.4	34.7	13.0	69.7	900
21-23	100.0	100.0	99.6	98.2	91.3	77.8	61.6	42.2	17.7	73.2	900
ALL HOURS	100.0	99.8	98.9	94.9	85.5	71.1	54.6	37.2	14.6	73.2	7200

MONTH: DEC

00-02	100.0	99.9	99.7	94.8	85.3	69.4	49.7	33.3	12.6	69.2	929
03-05	100.0	99.9	99.7	96.5	87.3	72.5	53.2	32.7	13.8	70.4	930
06-08	100.0	100.0	99.7	96.6	89.1	75.8	56.0	35.4	15.2	71.2	930
09-11	100.0	99.9	98.9	88.8	75.8	58.8	39.7	24.1	11.1	64.2	929
12-14	100.0	99.8	94.4	77.9	57.9	39.9	26.6	15.9	5.8	56.3	929
15-17	100.0	99.8	92.9	77.1	61.1	45.4	30.0	18.5	6.3	57.7	930
18-20	100.0	100.0	98.3	88.8	74.8	60.1	43.8	27.0	10.3	64.8	930
21-23	100.0	100.0	99.1	92.6	83.0	66.5	49.0	31.5	12.0	68.0	930
ALL HOURS	100.0	99.9	97.8	89.1	76.8	61.0	43.5	27.3	10.9	68.0	7437

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5 MONTH: ALL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	99.7	98.0	93.1	84.3	68.0	45.5	19.3	75.4	10958
03-05	100.0	100.0	99.8	98.5	94.5	86.4	72.3	51.0	23.2	77.2	10959
06-08	100.0	100.0	99.8	98.7	94.4	84.6	68.3	43.8	18.5	75.3	10959
09-11	100.0	100.0	99.1	93.7	81.1	61.6	38.7	19.2	7.1	64.6	10957
12-14	100.0	99.8	96.7	85.6	66.0	43.1	24.1	12.2	4.4	57.7	10957
15-17	100.0	99.7	96.1	85.4	66.7	46.0	26.6	14.2	5.7	58.5	10956
18-20	100.0	99.9	98.6	93.6	83.5	66.9	45.9	24.7	10.1	66.8	10956
21-23	100.0	100.0	99.6	97.0	91.1	79.8	60.5	36.4	15.1	72.4	10956
ALL HOURS	100.0	99.9	98.7	93.8	83.8	69.1	50.5	30.9	12.9	68.5	87658

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          FFFFFFFFFF
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT          FFFFFFFFFF
PP      PP    AA      AA    RR      RR        TT              FF
PP      PP    AA      AA    RR      RR        TT              FF
PPPPPPPPP     AA      AA    RRRRRRRRR         TT              FFFFFF
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT              FFFFFF
PP            AAAAAAAAAA    RR    RR          TT              FF
PP            AA      AA    RR     RR         TT              FF
PP            AA      AA    RR      RR        TT              FF
PP            AA      AA    RR       RR       TT              FF
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PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.
IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

SEA LEVEL PRESSURE IN MILLIBARS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0100	MEAN	1019.8	1019.6	1017.7	1015.1	1016.0	1015.7	1016.8	1017.3	1019.0	1020.4	1020.1	1020.9	1018.2
	SD	8.641	8.811	8.832	7.170	5.297	4.577	3.921	4.198	5.067	5.998	7.561	7.821	6.987
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
0400	MEAN	1019.7	1019.3	1017.2	1014.9	1015.	1015.4	1016.6	1016.9	1018.8	1020.1	1019.9	1020.9	[illegible]
	SD	8.491	8.988	8.880	7.374	5.383	4.644	3.902	4.177	4.953	6.101	7.558	7.733	7.024
	TOT OBS	309	283	310	300	310	300	310	310	299	310	300	310	3651
0700	MEAN	1020.3	1020.1	1018.2	1016.0	1016.9	1016.4	1017.6	1017.9	1019.7	1021.0	1020.7	1021.6	1018.9
	SD	8.511	9.168	9.083	7.607	5.429	4.671	3.894	4.222	5.207	6.195	7.617	7.771	7.092
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1000	MEAN	1021.3	1020.8	1018.8	1016.4	1017.2	1016.6	1017.9	1018.4	1020.3	1021.7	1021.3	1022.7	1019.4
	SD	8.707	9.307	9.400	7.737	5.480	4.776	3.943	4.281	5.226	6.404	7.695	7.884	7.281
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1300	MEAN	1019.3	1019.4	1017.5	1015.2	1016.3	1015.9	1017.2	1017.6	1019.4	1020.3	1019.6	1020.7	1018.2
	SD	9.003	9.352	9.274	7.724	5.482	4.804	4.014	4.265	5.259	6.532	7.823	7.935	7.244
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1600	MEAN	1018.7	1018.4	1016.2	1013.9	1015.1	1014.9	1016.2	1016.6	1018.3	1019.6	1019.0	1020.2	1017.3
	SD	9.126	9.171	9.092	7.537	5.436	4.733	4.088	4.261	5.233	6.532	7.719	7.903	7.243
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1900	MEAN	1019.7	1019.3	1016.9	1014.4	1015.4	1015.1	1016.3	1016.7	1018.6	1020.3	1019.8	1021.0	1017.8
	SD	9.004	8.890	8.763	7.279	5.186	4.556	3.985	4.150	5.098	6.388	7.609	7.890	7.141
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
2200	MEAN	1020.0	1019.8	1017.7	1015.3	1016.3	1016.0	1017.1	1017.6	1019.3	1020.9	1020.1	1021.3	1018.5
	SD	8.807	8.753	8.660	7.112	5.224	4.465	3.882	4.116	5.063	6.222	7.536	7.875	6.987
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
ALL HOURS	MEAN	1019.9	1019.6	1017.5	1015.2	1016.1	1015.8	1017.0	1017.4	1019.2	1020.5	1020.1	1021.2	1018.3
	SD	8.819	9.080	9.032	7.484	5.405	4.689	3.992	4.247	5.174	6.327	7.668	7.881	7.153
	TOT OBS	2479	2264	2480	2400	2480	2400	2480	2480	2399	2478	2400	2480	29220

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0100	MEAN	30.11	30.10	30.05	29.97	30.00	29.98	30.02	30.03	30.09	30.13	30.12	30.14	30.06
	SD	.255	.260	.261	.212	.156	.135	.116	.124	.150	.177	.223	.231	.206
	TOT OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
0400	MEAN	30.10	30.09	30.03	29.96	29.99	29.98	30.01	30.02	30.08	30.12	30.11	30.14	30.05
	SD	.250	.265	.262	.218	.159	.137	.115	.123	.146	.180	.223	.228	.207
	TOT OBS	309	283	310	300	310	300	310	310	299	310	300	310	3651
0700	MEAN	30.12	30.12	30.06	30.00	30.02	30.01	30.04	30.05	30.11	30.14	30.13	30.16	30.08
	SD	.251	.270	.269	.225	.160	.138	.115	.125	.154	.183	.225	.229	.209
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1000	MEAN	30.15	30.14	30.08	30.01	30.03	30.01	30.05	30.07	30.12	30.16	30.15	30.19	30.10
	SD	.256	.275	.277	.229	.162	.141	.117	.126	.154	.189	.227	.233	.215
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1300	MEAN	30.09	30.10	30.04	29.97	30.00	29.99	30.03	30.04	30.10	30.12	30.10	30.13	30.06
	SD	.266	.276	.274	.228	.162	.142	.119	.126	.155	.193	.230	.234	.214
	TOT OBS	310	283	310	300	310	300	310	310	300	310	298	310	3651
1600	MEAN	30.08	30.07	30.00	29.93	29.97	29.96	30.00	30.01	30.06	30.10	30.08	30.12	30.03
	SD	.269	.271	.268	.223	.161	.140	.121	.126	.154	.193	.228	.233	.214
	TOT OBS	310	283	309	300	310	300	310	310	299	310	300	31	3651
1900	MEAN	30.10	30.09	30.02	29.95	29.98	29.97	30.00	30.02	30.07	30.12	30.11	30.14	30.05
	SD	.266	.262	.259	.215	.154	.134	.118	.123	.150	.189	.225	.233	.211
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
2200	MEAN	30.12	30.11	30.05	29.98	30.00	30.00	30.03	30.04	30.09	30.14	30.12	30.15	30.07
	SD	.260	.259	.255	.210	.154	.132	.115	.122	.149	.184	.222	.233	.206
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
ALL HOURS	MEAN	30.11	30.10	30.04	29.97	30.00	29.99	30.02	30.04	30.09	30.13	30.12	30.15	30.06
	SD	.260	.268	.267	.221	.160	.138	.118	.125	.153	.187	.226	.233	.211
	TOT OBS	2479	2264	2479	2400	2480	2400	2480	2480	2398	2478	2397	2480	29215

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: NOV 79 - OCT 89
LST TO UTC: + 5

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0100	MEAN	30.09	30.08	30.03	29.95	29.98	29.96	30.00	30.01	30.07	30.11	30.10	30.12	30.04
	SD	.255	.260	.261	.212	.156	.135	.116	.124	.150	.177	.223	.231	.206
	TOT OBS	310	283	310	300	310	300	310	310	300	310	299	310	3652
0400	MEAN	30.08	30.07	30.01	29.94	29.97	29.96	29.99	30.00	30.06	30.10	30.09	30.12	30.03
	SD	.250	.265	.262	.218	.159	.137	.115	.123	.146	.180	.223	.228	.207
	TOT OBS	309	283	310	300	310	300	310	310	299	310	300	310	3651
0700	MEAN	30.10	30.10	30.04	29.98	30.00	29.99	30.02	30.03	30.09	30.12	30.11	30.14	30.06
	SD	.251	.270	.269	.225	.160	.138	.115	.125	.154	.183	.225	.229	.209
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1000	MEAN	30.13	30.12	30.06	29.99	30.01	29.99	30.03	30.05	30.10	30.14	30.13	30.17	30.08
	SD	.256	.275	.277	.229	.162	.141	.117	.126	.154	.189	.227	.233	.215
	TOT OBS	310	283	310	300	310	300	310	310	300	310	300	310	3653
1300	MEAN	30.07	30.08	30.02	29.95	29.98	29.97	30.01	30.02	30.08	30.10	30.08	30.11	30.04
	SD	.266	.276	.274	.228	.162	.142	.119	.126	.155	.193	.230	.234	.214
	TOT OBS	310	283	310	300	310	300	310	310	300	310	298	310	3651
1600	MEAN	30.06	30.05	29.98	29.91	29.95	29.94	29.98	29.99	30.04	30.08	30.06	30.10	30.01
	SD	.269	.271	.268	.223	.161	.140	.121	.126	.154	.193	.228	.233	.214
	TOT OBS	310	283	309	300	310	300	310	310	299	310	300	310	3651
1900	MEAN	30.08	30.07	30.00	29.93	29.96	29.95	29.98	30.00	30.05	30.10	30.09	30.12	30.03
	SD	.266	.262	.259	.215	.154	.134	.118	.123	.150	.189	.225	.233	.211
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
2200	MEAN	30.10	30.09	30.03	29.96	29.98	29.98	30.01	30.02	30.07	30.12	30.10	30.13	30.05
	SD	.260	.259	.255	.210	.154	.132	.115	.122	.149	.184	.222	.233	.206
	TOT OBS	310	283	310	300	310	300	310	310	300	309	300	310	3652
ALL HOURS	MEAN	30.09	30.08	30.02	29.95	29.98	29.97	30.00	30.02	30.07	30.11	30.10	30.13	30.04
	SD	.260	.268	.267	.221	.160	.138	.118	.125	.153	.187	.226	.233	.211
	TOT OBS	2479	2264	2479	2400	2480	2400	2480	2480	2398	2478	2397	2480	29215

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          GGGGGG
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT         GGGGGGGG
PP      PP    AA      AA    RR      RR        TT            GG      GG
PP      PP    AA      AA    RR      RR        TT            GG
PPPPPPPPP     AA      AA    RRRRRRRRR         TT            GG
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT            GG   GGGG
PP            AAAAAAAAAA    RR    RR          TT            GG   GGGGG
PP            AA      AA    RR     RR         TT            GG      GG
PP            AA      AA    RR      RR        TT             GGGGGGGG
PP            AA      AA    RR       RR       TT              GGGGGG
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PART G

CROSSWIND SUMMARY

CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 OCT 89
MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.5			930	1.1			930	1.6			930	3.8			93[illegible]
CATEGORY B	6.7	.7		999	5.7	.4		999	6.8	.4		1034	11.0	1.5	.1	1046

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.5			930	1.9			930	1.8	.2		930	2.2	.1		930
CATEGORY B	11.2	.8	.1	1011	9.6	.9	.2	1003	5.8	.8	.5	1000	6.6	1.3	.6	981

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.3	.0		4650	2.0	.0		7440
CATEGORY B	8.9	.9	.2	5094	7.9	.9	.2	8073

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 7 OCT 89
MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.4			849	3.1	.2		849	3.1	.2		849	4.1	.2		849
CATEGORY B	9.7	2.2	.1	909	9.3	1.9	.4	914	10.4	2.5	.8	951	12.7	1.2	.3	955

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	3.5	.1		849	2.2	.1		849	2.1			849	3.7			849
CATEGORY B	11.5	1.7	.6	960	9.6	1.3	.4	949	7.9	1.4	.2	951	9.4	1.8	.1	915

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	3.0	.1		4245	3.0	.1		6792
CATEGORY B	10.4	1.6	.5	4766	10.1	1.7	.4	7502

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	3.4			930	3.1	.1		930	3.9			930	4.7			930
CATEGORY B	10.5	1.3	.5	976	8.3	1.7	.4	1004	8.6	2.0	.4	1047	18.5	2.5	.4	1038

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	4.7			930	4.2	.1		930	2.6			930	3.7	.1		930
CATEGORY B	15.3	1.7	.6	1008	13.4	1.3	.5	1018	9.1	1.5	.5	1007	10.3	1.8	.7	990

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	4.0	.0		4650	3.8	.0		7440
CATEGORY B	13.0	1.8	.5	5118	11.8	1.7	.5	8088

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 OCT 84
MONTH: APR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.3			900	2.2			900	2.3			900	2.4			900
CATEGORY B	6.2	.5		951	6.1	1.0		976	7.4	.9		1012	12.1	1.1	.3	990

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.6			900	.2			900	3.2	.1		900	2.9			900
CATEGORY B	11.9	1.6	.2	981	11.9	1.7	.3	968	9.6	1.0	.2	970	9.1	7		967

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.8	.0		4500	2.7	.0		7200
CATEGORY B	10.6	1.3	.2	4927	9.3	1.1	.1	7821

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 OCT 89
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.0			930	.2			930	.3			930	.5			930
CATEGORY B	3.0	.4	.2	988	2.1			1020	2.0	.3		1047	5.1	.2		986

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.9			930	.5			930	.6			930	.4			930
CATEGORY B	4.3	.1		970	4.3	.1		992	3.4	.3	.1	1006	3.9	.2		995

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.6			4650	6			7440
CATEGORY B	3.8	.2	.0	5001	3.5	.2	.0	8004

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.3			900	.3			900	.2			900	.3			900
CATEGORY B	1.1			945	.7			950	2.1	.1	.1	971	1.9	.1		946

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.6			900	.4			900	.3			900	.3			900
CATEGORY B	3.1	.1		949	3.5	.7	.1	962	3.3	.2	.1	977	1.2	.1		938

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.4			4500	.4			7200
CATEGORY B	2.8	.2	.1	4805	2.1	.2	.0	7638

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077 257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 OCT 89
MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.2			930	.1			930				930				930
CATEGORY B	1.0	.1		968	.3			992	.7			999	1.0	.1		974

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.1			930				930	.5	.1	.1	930	.3	.1	.1	930
CATEGORY B	1.5			983	1.7	.2	.2	1002	2.1	.3	.1	1001	1.5	.2	.2	973

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.1	.0	.0	4650	.2	.0	.0	7440
CATEGORY B	1.4	.1	.1	4959	1.2	.1	.1	7892

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.1			930				930				930	.1			930
CATEGORY B	.9	.2	.1	967	.6			1035	1.0	.1	.1	1036	1.9			993

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.2			930	.5			930	.3			930	.3			930
CATEGORY B	1.6	.1		983	1.8	.4		994	1.6	.5	.2	975	1.5	.6	.3	981

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.2			4650	.2			7440
CATEGORY B	1.6	.2	.1	4981	1.4	.2	.1	7964

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.7	.1		900	.3	.2	.2	900	.4			900	.1			900
CATEGORY B	2.5	.3		921	2.1	.2	.2	959	2.2	.2	.1	997	3.3			971

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.1			900	.7			900	.6			900	.9	.1		900
CATEGORY B	1.9			946	2.3	.2		952	1.6	.2		925	1.8	.1	.1	931

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.4			4500	.5	.1	.0	7200
CATEGORY B	2.3	.1	.0	4791	2.2	.2	.1	7602

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077 257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.9			930	.9			930	.8			930	1.5	.1		930
CATEGORY B	2.7	.3		960	2.2	.2		975	3.8	.2	.1	1002	6.4	.8	.1	972

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.6			930	.9			930	1.2			928	.8			927
CATEGORY B	7.6	.3		970	4.0	.1		963	2.8	.3		949	2.7	.1	.1	961

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.2	.0		4648	1.0	.0		7435
CATEGORY B	4.9	.4	.0	4856	4.0	.3	.0	7752

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 OT 89
MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	.8			900	1.4	.2		900	1.9			900	1.4			900
CATEGORY B	4.0			953	5.5	.4	.2	963	6.0	.6	.3	976	9.4	.4		973

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.9			900	1.2			900	1.2			900	.9			900
CATEGORY B	11.1	.6	.1	956	7.1	.4		936	6.5	.7	.1	956	6.8	.6		942

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.5			4500	1.3	.0		7200
CATEGORY B	8.0	.6	.1	4797	7.0	.5	.1	7655

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.3			930	2.4	.1		930	2.8			930	3.4	.2		930
CATEGORY B	6.1	.5	.3	967	6.5	1.0	.4	967	7.0	1.1	.5	991	9.9	1.1	.5	981

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	3.0	.1		930	1.7	.1		930	1.7			930	1.6			930
CATEGORY B	11.4	1.4	.3	977	9.0	1.4	.4	978	6.1	.8	.2	957	6.3	.5	.1	964

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	2.5	.1		4650	2.2	.1		7440
CATEGORY B	8.7	1.2	.4	4884	7.8	1.0	.3	7782

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 077-257

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA
LST TO UTC: + 5

PERIOD OF RECORD: NOV 79 - OCT 89
MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.2	.0		10959	1.3	.1	.0	10959	1.4	.0		10959	1.9	.0		10959
CATEGORY B	4.5	.5	.1	11504	4.1	.6	.1	11754	4.8	.7	.2	12063	7.8	.8	.1	11831

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.8	.0		10959	1.5	.0		10959	1.4	.0	.0	10957	1.5	.0	.0	10956
CATEGORY B	7.7	.7	.2	11694	6.5	.7	.2	11717	5.0	.7	.2	11674	5.1	.7	.2	11536

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE15	GE25	GE30	OBS	GE15	GE25	GE30	OBS
CATEGORY A	1.6	.0	.0	54793	1.5	.0	.0	87667
CATEGORY B	6.4	.7	.2	58979	5.7	.7	.2	93773

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT            HH      HH
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT            HH      HH
PP      PP     AA      AA   RR      RR        TT                HH      HH
PP      PP     AA      AA   RR      RR        TT                HH      HH
PPPPPPPPP      AA      AA   RRRRRRRRR         TT                HHHHHHHHHH
PPPPPPPP       AAAAAAAAAA   RRRRRRRR          TT                HHHHHHHHHH
PP             AAAAAAAAAA   RR    RR          TT                HH      HH
PP             AA      AA   RR     RR         TT                HH      HH
PP             AA      AA   RR      RR        TT                HH      HH
PP             AA      AA   RR       RR       TT                HH      HH
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PART H

DEGREE DAY SUMMARIES

DEGREE DAYS.

CREATED FROM HOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (****) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

HEATING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: JAN 38 OCT 89
LST TO UTC: + 5

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1938	788	516	350	168	55	7			14	170	331	642	3041
1939	652	466	433	238	103					136	495	673	[illegible]
1940	1126	714	584	338	57				23	197	363	[illegible]	[illegible]
1941	797	793	668	214	46	2				****	341	585	3447
1942	796	746	452	213	9				25	92	338	761	3432
1943	709	588	524	317	37				35	196	435	725	3566
1944	744	631	539	261	10					137	434	791	3547
1945	864	604	246	129	70	12				122	343	838	3228
1946	724	583	307	244	51	10		2	6	79	282	545	2833
1947	****	809	717	219	69	2			28	58	446	736	3084
1948	938	680	415	217	25	5				****	268	606	3148
1949	519	452	478	232	51				23	54	394	596	2799
1950	374	587	554	310	71				32	48	453	806	3235
1951	636	613	525	238	54	1			13	83	476	578	3217
1952	596	591	484	167	22				2	207	369	663	3101
1953	555	492	414	198	6				2	93	390	580	2730
1954	717	495	481	156	93				1	134	459	728	3264
1955	821	647	390	150	47	7				112	432	844	[illegible]
1956	846	564	526	295	110				16	65	426	391	3239
1957	804	570	498	167	52				15	219	334	563	3222
1958	866	803	646	227	45	1			10	127	286	893	3904
1959	789	589	471	171	36	4			7	115	402	584	3168
1960	703	647	800	167	51				5	181	410	908	3872
1961	940	604	439	360	126	13			9	171	397	736	3795
1962	805	636	605	277	48	2			47	158	502	884	3964
1963	875	792	412	235	111	1			44	156	388	927	3941

1964	714	719	473	295	84	8	1	10	277	332	593	3506
1965	774	670	650	348	34	22	9	11	192	409	711	3830
1966	906	707	511	338	128	21		24	199	437	716	3987
1967	639	690	484	235	170	25		51	244	565	650	3753
1968	909	874	466	258	106				110	324	747	3796
1969	825	695	623	203	48			25	173	506	787	3885
1970	991	724	665	310	54			17	98	401	633	3893
1971	856	563	545	276	70			5	22	418	409	3164
1972	608	689	507	269	47	12		3	190	431	522	3278
1973	791	725	420	247	73			1	90	341	573	3261
1974	497	592	404	200	70			19	237	401	598	3018
1975	599	552	517	354	54			9	109	290	651	3135
1976	818	418	373	222	76	8		12	315	636	787	3665
1977	1104	641	302	145	37	3			130	310	649	3321
1978	845	940	616	236	91			8	175	250	615	3776
1979	792	865	465	226	34	4		2	209	308	680	3585
1980	815	834	507	152	46	2		3	151	457	688	3655
1981	976	594	586	149	73			9	172	430	752	3741
1982	911	704	602	311	19				169	323	492	3531
1983	753	662	400	265	53	1		17	92	328	689	3260
1984	856	484	553	245	48	3		17	20	437	430	3093
1985	903	653	404	127	15			5	72	203	736	3118
1986	762	601	403	205	56		1	11	97	361	645	3142
1987	803	730	576	278	54				229	291	533	3494
1988	852	619	439	251	61	13		4	265	325	665	3494
1989	581	585	493	307	60			19	116			2161
MEAN	781	648	498	237	59	3	0	12	145	386	668	
SD	145.74	112.38	108.11	62.03	32.29	6.12	1.28	12.79	66.44	81.42	123.97	

****SPL 30YR SUMMATION (1951 -1980)****

MEAN	781	664	507	237	67	4	0	12	158	402	676	
SD	154.74	120.95	103.33	64.72	36.20	7.18	1.65	13.75	64.99	84.07	134.16	

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 745980 STATION NAME: LANGLEY AFB VA PERIOD OF RECORD: JAN 38 - OCT 89
LST TO UTC: + 5

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1938		1	22	51	113	276	445	457	210	23	22		1620
1939		4	19	50	195	393	400	455	298	105			1919
1940				5	111	373	426	380	170	18	1		1484
1941				57	196	290	456	417	320	****	8		1744
1942				57	200	372	512	391	306	43	3		1884
1943	2		10	18	206	458	452	448	201	22	4		1821
1944	3		3	23	227	382	470	404	283	50			1845
1945			79	57	115	380	439	383	362	43	19		1877
1946	3		6	24	133	244	326	271	183	61	18		1269
1947	****			32	174	280	377	447	314	88			1712
1948			37	26	126	315	467	386	222	****	19		1598
1949		4	17	17	113	336	535	434	212	90			1758
1950	11		3	24	83	307	433	375	246	60	34		1576
1951				25	84	298	460	422	243	87	4	5	1628
1952			20	49	133	437	514	443	254	27			1877
1953		2		30	233	318	496	431	265	53			1828
1954		2	6	65	102	340	449	437	311	156			1868
1955			5	42	163	235	546	497	256	65	11		1820
1956			9	38	114	338	422	390	212	36	14	2	1575
1957				89	175	406	470	361	317	8	3		1829
1958				34	113	230	534	431	204	40	2		1593
1959			3	52	203	360	443	505	298	143	13		2028
1960			2	110	115	325	397	447	222	36			1654
1961			20	29	60	222	422	372	301	20	16		1462
1962			2	38	148	230	292	311	136	53			1211
1963			1	54	84	237	378	335	98	17			1204

1964			7	13	132	275	368	294	178	11	4	4	1286
1965				9	152	234	336	365	239	22	1		1358
1966			6	15	83	234	404	327	163	16	5	4	1257
1967			7	50	39	185	337	302	71	17			1008
1968			8	4	59	274	438	493	196	83	6		1561
1969				35	114	364	463	338	152	41			1507
1970	1			9	149	319	376	381	287	54			1576
1971		3		2	75	330	411	373	273	108	23	4	1602
1972			6	21	53	209	404	336	226	32	10		1297
1973			16	18	96	334	428	429	297	59	17	2	1696
1974	2		15	54	110	215	408	401	208	25	28		1466
1975	1	4	1	20	136	333	380	449	233	58	14		1629
1976		8	12	71	88	292	425	360	158	10			1424
1977			15	59	139	301	511	496	365	36	26		1948
1978				8	103	325	383	572	264	25	5	4	1689
1979			18	7	118	203	416	434	212	54	14		1476
1980				20	177	294	540	538	342	59			1970
1981				45	129	455	512	345	216	29			1731
1982				7	169	209	367	306	199	46	15	8	1326
1983			2	26	135	317	536	505	294	71	2		1888
1984				8	167	388	398	462	222	136	4	1	1786
1985		5	20	105	163	279	463	389	273	110	16		1823
1986			11	1	178	368	522	408	254	98	9		1849
1987				2	160	368	530	461	298		13		1832
1988			2	17	135	314	490	494	157	22	7		1638
1989		6	20	16	123	390	419	401	272	72			1719
MEAN	0	0	8	33	132	311	438	409	240	52	8	0	
SD	1.67	1.78	13.02	25.45	44.96	67.56	61.30	65.24	63.95	36.56	8.82	1.67	

****SPL 30YR SUMMATION (1951 -1980)****

MEAN	0	0	5	35	118	289	428	409	232	48	7	0
SD	.43	1.71	6.70	26.06	44.76	63.00	62.36	71.75	69.70	36.63	8.43	1.62

A W S
CLIMATIC BRIEF
APR 90

STATION NAME: LANGLEY AFB VA
LATITUDE/LONGITUDE: 37 05 N 076 21 W
HOURLY OBS POR: NOV 79 - OCT 89
SUMMARY OF DAY POR: OCT 36 - OCT 89
HOURS SUMMARIZED: 0000 - 2300 LST
LST TO UTC: +05

FIELD ELEV: 11 FT
STATION MSC: 745980
CALL SIGN: KLFI

SUPERSEDES: FEB 86

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR
EXTRM MAX TEMP (F)	78	81	90	95	97	102	103	105	99	95	85	78	105	54
MEAN MAX TEMP (F)	47	50	57	67	75	83	86	85	79	69	60	51	68	54
MEAN TEMP (F)	40	42	49	58	67	75	79	78	72	62	52	43	60	54
MEAN MIN TEMP (F)	32	33	40	49	59	67	71	71	65	54	43	35	52	54
EXTRM MIN TEMP (F)	-3	9	12	28	35	43	55	50	44	26	20	8	-3	54
D/W TEMP GE 90 (F)	0	0	#	1	1	6	10	7	2	1	0	0	28	54
D/W TEMP GE 80 (F)	0	#	1	4	11	20	27	25	14	3	1	0	106	54
D/W TEMP LT 33 (F)	17	13	6	1	0	0	0	0	0	#	4	13	54	54
D/W TEMP LT 10 (F)	1	#	0	0	0	0	0	0	0	0	0	#	1	54
HEATING DEGREE DAYS	781	648	498	237	59	3	0	#	12	145	386	668	3437	52
COOLING DEGREE DAYS	#	#	8	33	132	311	438	409	240	52	8	#	1631	52
MEAN DEWPOINT TEMP (F)	27	30	35	45	56	64	69	69	63	52	43	33	49	10
MEAN WET BULB TEMP (F)	34	37	43	51	61	68	72	72	67	57	48	39	54	10
99.95% WCPA (FT)	650	650	750	650	450	400	300	300	350	400	550	500	550	10
MEAN REL HUM 07 LST(%)	70.4	72.2	69.2	72.3	75.8	75.8	78.6	81.5	80.9	78.7	77.4	71.2	75.3	10
MEAN REL HUM 13 LST(%)	56.5	57.3	53.7	53.4	56.8	56.8	59.5	62.5	61.8	58.6	59.7	56.3	57.7	10
MAX 24HR PRECIP (IN)	2.65	2.32	2.99	3.07	4.43	5.63	3.57	4.88	6.51	3.93	4.66	2.61	6.51	51
MAX PRECIP (IN)	8.43	6.06	10.94	8.38	13.03	10.26	12.52	10.62	14.68	12.49	6.88	7.53	67.22	51
MEAN PRECIP (IN)	3.36	3.50	3.86	2.99	3.69	3.73	4.82	4.78	4.35	3.18	3.02	3.09	44.15	51
MIN PRECIP (IN)	.72	.31	.95	.46	.44	.36	1.23	.53	.16	.35	.29	.45	27.70	51
D/W PRECIP GE .01 (IN)	10	10	10	9	10	9	11	9	7	7	8	9	109	51
D/W PRECIP GT .50 (IN)	2	3	3	2	2	2	3	3	2	2	2	2	28	51
MAX 24HR SNFL (IN)	9.3	12.2	11.1	6.5	0	0	0	0	0	#	1.7	12.0	12.2	43
MAX SNFL (IN)	16.3	21.4	21.3	6.5	0	0	0	0	0	#	1.7	22.0	50.1	43
MEAN SNFL (IN)	3.3	3.4	1.6	.1	0	0	0	0	0	#	.1	1.3	9.6	43
D/W SNFL GE .1 (IN)	2	1	1	#	0	0	0	0	0	0	#	1	5	43
D/W SNFL GE 1.5 (IN)	1	1	1	#	0	0	0	0	0	0	#	1	4	43
MAX DLY SNO DEPTH (IN)	13	13	19	#	0	0	0	0	0	0	#	13	19	43
PREVLNG WND DIR (DEG)	35-01	35-01	02-04	20-22	20-22	20-22	23-25	$23-25	$05-07	$02-04	$35-01	35-01	$20-22	10
MEAN WND SPD (KTS)	7	7	8	8	6	6	6	5	5	6	6	7	6	10
MAX WND SPD (KTS)	61	58	66	67	59	56	50	68	61	83	58	57	83	43
D/W COVER LT 5/10 (%)	54.0	57.7	51.0	52.3	55.0	47.4	49.0	47.8	47.0	46.1	50.0	53.1	51.0	10
D/W THUNDERSTORMS	1	1	2	3	5	6	9	7	3	1	1	1	40	40
D/W FOG (VSBY LT 7 MI)	13	12	13	11	14	13	14	16	15	15	13	13	162	40

LEGEND: ANN - ANNUAL
D/W - MEAN NUMBER OF DAYS WITH
. - BASED ON LESS THAN FULL MONTH
** - INSTANTANEOUS PEAK WINDS
* - DATA NOT AVAILABLE

POR/YOR = PERIOD/YEARS OF RECORD
WCPA = WORST CASE MAXIMUM PRESSURE ALTITUDE
# = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE
$ - PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN WIND DIRECTION

PERCENT OCCURRENCE FREQUENCY OF CEILING AND VISIBILITY

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR
	LST														
	00 - 02	17.1	22.7	20.0	16.6	11.9	5.7	5.6	7.6	10.7	15.8	19.0	15.5	14.0	10
	03 - 05	19.4	23.6	22.3	16.2	17.5	9.0	9.7	10.1	14.2	18.6	22.0	18.4	16.7	10
CIG	06 - 08	22.3	26.5	22.0	18.0	20.0	11.7	13.7	14.7	17.2	19.9	23.0	21.0	19.2	10
LT 3000 FT	09 - 11	21.3	22.9	19.9	17.3	16.6	8.9	10.8	11.6	13.7	14.8	18.9	19.7	16.4	10
AND/OR	12 - 14	18.7	21.8	16.6	15.9	11.3	4.4	7.1	7.6	9.7	12.0	15.6	15.5	13.0	10
VSBY	15 - 17	18.4	20.4	14.9	12.1	9.0	3.0	6.5	5.7	8.7	11.7	11.7	17.5	11.6	10
LT 3 MI	18 - 20	18.0	21.2	17.8	13.1	10.4	2.8	5.5	6.3	9.4	10.1	14.0	16.2	12.1	10
	21 - 23	18.3	22.0	18.5	14.2	10.5	4.1	4.8	6.5	11.3	13.9	15.9	13.8	12.8	10
	ALL	19.2	22.6	19.0	15.4	13.4	6.2	7.9	8.8	11.9	14.6	17.5	17.2	14.4	10
	00 - 02	14.2	19.4	14.8	12.2	8.9	3.8	3.7	5.6	7.6	10.9	14.9	10.6	10.5	10
	03 - 05	6.1	20.8	18.2	12.4	12.4	6.7	7.1	7.3	9.1	14.0	17.4	3.2	12.9	10
CIG	06 - 08	19.0	21.7	17.7	13.2	15.9	9.2	10.4	12.5	13.2	14.8	17.3	15.5	15.0	10
LT 1500 FT	09 - 11	18.5	17.4	15.7	12.0	11.1	4.4	5.4	6.5	8.2	9.0	14.9	14.7	11.5	10
AND/OR	12 - 14	15.5	15.9	12.5	9.3	5.9	1.9	1.9	3.4	4.1	6.3	10.4	11.7	8.2	10
VSBY	15 - 17	13.5	16.4	10.6	6.9	5.1	1.2	3.4	3.3	5.3	7.7	8.3	11.8	7.8	10
LT 3 MI	18 - 20	15.2	17.1	13.8	9.4	7.3	1.3	3.4	3.8	6.2	7.4	9.4	11.9	8.8	10
	21 - 23	15.1	17.7	13.4	11.2	7.2	2.3	2.5	3.9	7.3	9.5	11.1	10.2	9.3	10
	ALL	15.9	18.3	14.6	10.8	9.2	3.9	4.7	5.8	7.6	10.0	13.0	12.5	10.5	10
	00 - 02	12.5	16.4	11.4	9.0	7.8	1.8	1.3	2.4	3.6	6.0	12.0	9.5	7.8	10
	03 - 05	13.5	18.3	13.9	8.3	9.4	2.9	2.7	3.3	4.4	10.0	14.0	11.2	9.3	10
CIG	06 - 08	14.7	17.8	13.7	9.7	9.5	4.2	2.5	6.2	7.9	11.0	13.7	13.3	10.3	10
LT 1000 FT	09 - 11	15.3	14.4	11.3	9.8	6.6	1.4	.5	1.8	3.6	4.8	11.2	11.3	7.7	10
AND/OR	12 - 14	12.0	13.2	9.6	6.2	2.5	.6	.2	1.6	1.1	3.7	7.0	9.6	5.6	10
VSBY	15 - 17	11.1	13.9	8.7	4.4	2.7	.0	.3	1.8	2.2	5.5	5.9	8.7	5.4	10
LT 2 MI	18 - 20	12.3	12.8	11.1	6.7	5.2	.2	1.1	1.8	2.8	5.4	6.8	8.0	6.2	10
	21 - 23	12.7	15.2	10.3	8.2	6.0	.9	1.1	2.0	3.4	6.1	8.1	8.8	6.9	10
	ALL	13.0	15.2	11.2	7.8	6.2	1.5	1.2	2.6	3.6	6.6	9.8	10.0	7.4	10
	00 - 02	2.0	2.4	1.7	1.6	.6	.3	.0	.1	.0	.9	2.6	1.2	1.1	10
	03 - 05	1.7	4.4	2.4	1.8	1.7	.2	.0	.5	.0	2.7	4.2	2.6	1.8	10
CIG	06 - 08	1.9	4.8	2.9	1.7	.9	.0	.0	.2	.7	2.6	3.7	2.5	1.8	10
LT 200 FT	09 - 11	1.8	2.4	.6	.7	.0	.0	.0	.0	.1	.1	1.6	.2	.6	10
AND/OR	12 - 14	1.2	1.5	.6	.1	.0	.0	.0	.0	.0	.0	.2	.1	.3	10
VSBY	15 - 17	1.0	.9	1.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	10
LT 1/2 MI	18 - 20	1.5	1.5	1.6	.7	.1	.0	.1	.0	.0	.1	.7	.8	.6	10
	21 - 23	1.5	1.9	1.7	1.1	.6	.0	.1	.0	.0	.4	.4	1.0	.7	10
	ALL	1.6	2.5	1.6	.9	.5	.1	.0	.1	.1	.8	1.7	1.0	.9	10

HURRICANES/TROPICAL STORMS OBSERVED FOR THE PERIOD 1900 - 1986:

HR/TS	MAY	JUN	JUL	AUG	SEP	OCT	NOV	ANN
60NM	0/0	0/1	0/3	3/5	2/4	0/0	0/0	5/13
120NM	0/0	0/5	3/4	9/12	8/11	1/2	0/1	21/35
240NM	1/2	1/11	5/10	22/23	21/23	5/7	2/4	57/80

REMARKS :

DISTRIBUTION

5WW/DN, Langley AFB, VA 23665-5000	1
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