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ATMOSPHERIC STRUCTURE, WHITE SANDS  
MISSILE RANGE, NEW MEXICO. PART I.  
SURFACE WIND, CLOUD COVER, VISIBILITY

Marjorie M. Hoidale, et al

Army Electronics Command  
White Sands Missile Range, New Mexico

March 1974

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**ATMOSPHERIC STRUCTURE**  
**WHITE SANDS MISSILE RANGE, NEW MEXICO**

**PART I**  
**SURFACE WIND, CLOUD COVER, VISIBILITY**

**By**  
**Marjorie McLardie Hoidale**

**and**  
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**DR-818**

**DA Task 1T665702D127-02**

**ATMOSPHERIC SCIENCES LABORATORY**  
**WHITE SANDS MISSILE RANGE, NEW MEXICO**

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## FOREWORD

This report is a revision of Technical Report ECOM-5202 published under the same title in July 1968. The revision up-dates the original records to cover the period from 1951 through 1973.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR-818	2. JOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle)  Atmospheric Structure, White Sands Missile Range, New Mexico, Part 1, Surface Wind, Cloud Cover, Visibility		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)  Marjorie M. Hoidale Lamar Newman		8. CONTRACT OR GRANT NUMBER(s)  DA Task 1T665702D127-02
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS  U. S. Army Electronics Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico		12. REPORT DATE  March 1974
		13. NUMBER OF PAGES  170
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)  U. S. Army Electronics Command Ft. Monmouth, New Jersey		15. SECURITY CLASS. (of this report)  UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES  Reproduced by NATIONAL TECHNICAL INFORMATION SERVICE U S Department of Commerce Springfield VA 22151		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  1. Wind                      4. Visibility 2. Clouds                    5. Climatology - New Mexico 3. Gusts		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  A statistical analysis of surface wind velocity, sky conditions, and visibility is presented for "A" Station, White Sands Missile Range, New Mexico. This climatological information is based on the period of observation from 1951-1973.		

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## INTRODUCTION

A detailed statistical analysis of sky, visibility, and surface wind conditions is often desirable when projects must schedule missions months in advance of the actual firing dates. This is especially true where an unguided rocket, sensitive to the low-level wind effect, is being fired or where optics are requisite for a successful mission. Scheduling problems of this type require a detailed knowledge of the frequency of occurrence of the critical meteorological conditions classified by months and hours, the extreme conditions that can be expected, and mean values classified by months and hours where a diurnal trend can possibly be detected.

It must be realized, however, that the data presented in this type of statistical analysis are merely an aid and not the final or complete answer to scheduling a mission successfully from the meteorological standpoint. Averages or means do not give information on the random variability of monthly or hourly values or long-term climatic changes.

Observations of the sky condition and visibility were taken at "A" Station, latitude  $32^{\circ}22'42''$  North and longitude  $106^{\circ}28'47''$  West. (See range map, Page 2.) Wind measurements were obtained from a remote sensor located approximately one-half mile to the west. The anemometer is on a 13-foot mast with an elevation of 4304.05 feet at the sensing point. Prior to about May 1955, measurements were taken from a 12-foot mast on the roof of "A" Station. The climatological information is based on the period of observation from 1951-1973.

A statistical analysis of surface temperature, relative humidity, density, pressure, etc., appears in Part 2 in this series (1). A statistical analysis of upper air data at various test sites on the Range appears in Part 3 in the series (2-7).



FIGURE 1. MAP OF WHITE SANDS MISSILE RANGE

## EXPLANATION OF TERMS

1. Surface Wind
  - a. Wind directions are given as the true direction from which the wind is blowing.
  - b. Wind speeds are measured in knots (nautical miles per hour).
  - c. Wind gusts are characterized by sudden, intermittent increases in speed, with at least 9 knots variation between peaks and lulls. The average time interval between peaks and lulls usually should not exceed 20 seconds.
  - d. Maximum sustained wind speeds are a one-minute average of the observed wind speed.
  
2. Sky Condition
  - a. Clear denotes no clouds, or less than 1/10 of sky cover.
  - b. Scattered denotes 1/10 through 5/10 of the sky covered by clouds.
  - c. Broken denotes 6/10 through 9/10 of the sky covered by clouds.
  - d. Overcast denotes greater than 9/10 or the entire sky covered by clouds.
  
3. The ceiling is the height ascribed to:
  - a. The lowest layer of clouds or obscuring phenomena aloft that is reported as broken or overcast and not classified as thin, or,
  - b. Surface-based obscuring phenomena (obscuration) not classified as partial.

**SECTION I**

**SURFACE WIND DATA**

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TABLE I  
 MONTHLY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED IN PERCENT  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH	WIND (KNOTS)				
	0-5	6-14	15-25	ABOVE 25	
JAN	65	26	8	1	
FEB	57	32	10	1	
MAR	43	41	14	1	
APR	36	45	17	2	
MAY	39	50	10	0	
JUN	41	51	7	0	
JUL	58	40	2	0	
AUG	64	35	2	0	
SEP	65	33	2	0	
OCT	65	32	4	0	
NOV	62	30	7	1	
DEC	65	25	9	1	

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	64	63	60	66	71	73	73	76	77	74	68	65	64	58	53	55	53	61	66	63	62	63	64
WIND 6-14 KNOTS	26	27	23	25	21	19	19	18	17	20	25	26	28	32	39	35	37	29	23	23	25	27	26
WIND 15-25 KNOTS	9	6	7	7	7	7	4	5	6	6	6	7	7	9	7	9	9	9	10	11	9	10	9
WIND ABOVE 25 KNOTS	2	2	2	2	2	1	1	1	1	1	1	2	2	1	2	2	1	1	2	2	1	2	1

TOTAL OBSERVATIONS

594 598 598 598 598 599 600 602 601 602 601 602 599 599 601 600 599 583 577 575 577 576 576 577

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	57	59	63	63	64	65	67	70	69	66	62	59	56	47	42	42	42	47	55	54	55	55	55	58
WIND 6-14 KNOTS	33	32	26	28	27	25	25	23	24	24	29	30	32	40	43	44	45	39	32	34	33	31	35	32
WIND 15-25 KNOTS	9	9	10	9	7	9	8	7	7	9	9	11	11	11	13	14	13	14	12	10	11	13	9	9
WIND ABOVE 25 KNOTS	1	1	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	3	2	1	2	1

TOTAL OBSERVATIONS

545 546 545 545 546 547 544 545 545 545 545 545 545 547 546 546 546 547 547 532 528 527 528 528 528 528 526

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	46	46	46	50	53	56	58	62	58	52	46	41	33	32	27	25	26	31	40	44	42	40	42	45
WIND 6-14 KNOTS	39	39	37	35	34	32	29	27	32	36	40	45	52	51	56	58	55	50	43	40	41	42	41	39
WIND 15-25 KNOTS	15	14	15	14	12	11	13	10	10	12	13	11	13	16	15	16	18	18	15	14	16	17	16	15
WIND ABOVE 25 KNOTS	1	1	2	1	1	1	0	1	0	1	1	2	1	1	1	1	1	2	2	2	1	2	1	1

TOTAL OBSERVATIONS

596 596 596 597 597 597 595 596 595 596 596 594 597 595 595 595 595 597 575 568 570 571 572 570 570

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

WIND	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	40	42	46	47	51	55	59	57	48	42	36	29	26	19	19	16	18	19	26	34	33	31	32	33
WIND 6-14 KNOTS	41	39	35	38	34	32	29	31	39	43	48	54	55	59	60	61	57	57	50	43	45	46	45	46
WIND 15-25 KNOTS	18	18	17	15	15	13	11	12	11	13	14	16	17	20	18	21	23	22	22	21	20	21	22	20
WIND ABOVE 25 KNOTS	2	2	1	1	1	0	1	1	2	2	2	1	2	2	2	2	3	2	2	2	2	1	1	1

TOTAL OBSERVATIONS

574 575 575 574 575 574 575 574 575 574 575 574 573 574 575 574 573 574 575 574 535 532 531 532 531 531 531

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	41	44	49	52	54	60	65	63	55	48	40	30	29	20	22	20	20	22	28	36	38	37	35	38
WIND 6-14 KNOTS	48	44	41	39	35	28	29	29	38	44	51	61	61	70	65	66	67	63	58	52	49	51	54	49
WIND 15-25 KNOTS	11	12	9	7	6	5	6	8	7	8	6	9	10	9	12	14	13	15	14	11	12	11	11	12
WIND ABOVE 25 KNOTS	1	1	1	1	0	0	0	0	0	0	1	0	0	1	1	1	1	1	0	1	1	1	0	0

TOTAL OBSERVATIONS

579 579 580 580 593 591 591 592 590 592 591 591 591 591 591 590 591 551 549 549 535 533 534 533

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	30	42	48	53	62	65	72	65	58	49	42	38	34	27	21	25	29	24	27	32	36	33	32	33
WIND 6-14 KNOTS	50	47	44	43	35	32	26	32	39	46	53	58	61	67	73	66	63	65	60	57	54	55	56	53
WIND 15-25 KNOTS	11	11	7	4	3	3	2	3	3	5	5	4	5	6	5	9	8	11	12	10	10	11	11	13
WIND ABOVE 25 KNOTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

516 537 536 539 569 568 566 567 565 567 566 560 569 567 566 565 566 568 552 529 527 498 498 497 499

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	57	60	71	78	85	87	86	88	79	70	63	57	52	43	41	35	30	37	37	42	49	47	48	51
WIND 6-14 KNOTS	41	37	27	22	15	13	14	12	21	29	36	41	47	55	56	62	65	58	59	54	48	49	48	44
WIND 15-25 KNOTS	2	3	2	1	0	0	0	0	0	0	1	1	1	2	3	4	5	5	4	4	3	4	4	4
WIND ABOVE 25 KNOTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

555 581 581 592 591 590 590 589 590 590 590 590 592 592 590 590 591 574 549 547 537 539 539 538

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	66	72	75	81	84	86	87	89	85	74	69	64	55	47	42	38	38	40	42	55	59	57	58	60
WIND 6-14 KNOTS	31	28	24	17	15	14	13	11	15	25	31	35	44	52	56	59	58	56	42	38	40	39	39	39
WIND 15-25 KNOTS	3	1	2	2	1	0	0	1	0	1	1	1	1	1	2	3	3	2	2	3	2	3	3	1
WIND ABOVE 25 KNOTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

581 591 591 590 591 589 587 590 590 590 589 591 590 591 589 590 590 572 560 560 559 560 560 560 558

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	67	70	77	79	82	85	89	84	76	68	62	53	48	43	42	43	48	58	63	61	58	64	64	63
WIND 6-14 KNOTS	30	29	21	20	17	14	14	10	16	24	31	37	45	51	55	56	56	49	40	35	37	39	33	34
WIND 15-25 KNOTS	2	1	1	0	1	1	1	1	0	1	0	1	2	1	2	1	2	4	3	3	2	3	3	3
WIND ABOVE 25 KNOTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

571 569 567 570 570 569 569 567 567 567 568 568 569 570 569 567 569 567 559 551 553 551 550 552 552

TABLE I (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	63	66	70	71	73	73	78	82	76	72	65	60	54	54	46	48	51	61	68	68	61	62	60	64
WIND 6-14 KNOTS	32	30	27	26	24	24	21	16	21	25	32	36	42	42	49	47	43	34	26	28	34	33	33	30
WIND 15-25 KNOTS	5	3	3	2	2	1	2	3	3	3	3	4	4	4	5	5	5	4	4	4	5	4	5	5
WIND ABOVE 25 KNOTS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1

TOTAL OBSERVATIONS

594 594 596 595 595 594 598 596 597 597 595 598 595 593 592 595 592 575 570 570 569 571 569 569

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS																								
60	65	62	68	66	69	70	70	70	75	69	63	61	57	53	51	50	52	64	61	61	57	59	59	61
WIND 6-14 KNOTS																								
30	26	29	22	26	25	25	24	24	20	25	31	31	36	39	42	42	39	29	30	30	34	34	33	32
WIND 15-25 KNOTS																								
9	7	7	8	7	6	4	5	4	5	5	5	6	6	8	7	7	8	6	7	9	7	6	7	7
WIND ABOVE 25 KNOTS																								
1	2	2	2	1	1	1	1	1	2	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1

TOTAL OBSERVATIONS

566 570 570 569 570 570 569 567 567 569 569 567 567 567 567 566 567 566 559 547 547 546 546 546 547

TABLE 1 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SURFACE WIND SPEED  
BY MONTH AND BY HOUR (IN PERCENT)

A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
WIND 0-5 KNOTS	45	47	68	69	69	70	73	72	74	69	69	65	61	60	55	55	59	66	62	58	60	60	61	66
WIND 6-14 KNOTS	25	23	21	22	23	21	19	20	18	21	22	25	20	29	33	32	30	23	26	29	20	20	29	25
WIND 15-25 KNOTS	10	9	10	7	7	7	6	7	7	9	8	8	9	9	11	11	11	11	12	12	11	9	9	8
WIND ABOVE 25 KNOTS	0	2	1	2	2	2	2	2	1	2	2	1	2	2	1	1	0	0	1	1	1	2	1	1

TOTAL OBSERVATIONS

500 502 503 503 502 503 504 500 500 506 505 506 505 506 504 506 506 506 505 506 505 506 506 504 504 506 563 561 564 563

TABLE II

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION " WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	CALM	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	19	2	1	1	1	1	3	2	3	1	3	6	33	14	8	3	651	0
1	20	2	1	1	1	1	2	2	2	2	3	5	32	16	8	2	657	1
2	20	2	1	1	2	2	1	3	2	2	2	5	31	14	8	2	657	2
3	20	4	1	1	2	1	3	2	2	2	2	4	32	14	6	3	657	3
4	24	2	1	1	1	1	3	2	3	1	2	5	33	12	6	2	657	4
5	25	3	1	1	2	1	2	2	2	1	2	6	28	13	8	3	658	5
6	24	2	1	1	2	1	3	2	2	2	3	5	28	13	6	2	660	6
7	24	3	1	1	2	1	3	2	3	1	3	7	30	11	6	2	662	7
8	38	2	1	2	3	2	4	3	3	1	3	4	21	7	4	3	662	8
9	37	2	3	4	8	7	6	4	2	1	2	3	10	5	2	2	663	9
10	24	1	3	5	3	15	12	8	1	0	2	2	9	4	3	1	662	10
11	22	2	3	3	6	17	10	6	2	1	1	3	10	5	3	3	663	11
12	20	2	3	4	6	14	9	9	2	1	2	4	12	5	4	2	659	12
13	19	2	2	4	4	12	8	6	3	1	2	6	13	6	4	2	660	13
14	17	3	2	3	4	10	7	5	3	1	3	6	13	7	5	1	662	14
15	17	3	2	5	3	8	6	6	4	2	3	6	13	8	5	2	661	15
16	19	2	2	4	4	5	5	5	6	2	4	6	14	8	5	2	660	16
17	21	3	3	5	2	2	2	3	4	4	4	10	20	7	5	2	648	17
18	16	1	1	1	1	2	3	3	4	2	3	9	35	13	6	2	637	18
19	15	2	1	1	0	2	1	2	2	1	3	6	38	15	5	2	635	19
20	16	3	1	1	0	2	3	2	3	1	3	5	35	15	7	3	637	20
21	15	2	1	1	1	1	2	2	2	3	2	5	37	15	9	2	636	21
22	19	2	1	1	0	1	2	2	2	2	3	5	32	17	0	3	637	22
23	15	2	1	0	1	2	2	1	2	2	3	7	35	17	7	2	638	23

BY MONTH 21 2 2 2 2 5 4 4 3 3 2 3 5 25 11 6 2 15679

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	0	1	1	1	3	3	2	1	3	5	32	14	9	3	603	0
1	16	3	1	1	0	1	1	3	2	3	1	2	4	32	15	10	3	604	1
2	18	2	0	0	0	1	1	2	3	3	1	3	6	30	14	8	4	603	2
3	19	3	1	1	1	1	1	2	4	1	1	1	6	28	17	8	4	603	3
4	21	2	1	1	0	1	1	2	3	1	1	2	6	30	14	7	4	604	4
5	20	4	0	1	1	2	1	3	3	1	1	1	6	30	15	6	3	605	5
6	23	2	1	1	1	2	1	2	2	2	1	2	6	28	14	8	3	603	6
7	23	3	1	1	1	2	1	3	2	3	2	1	6	27	14	7	3	604	7
8	32	3	2	3	2	3	3	4	4	2	1	3	5	15	8	7	2	603	8
9	28	3	2	5	5	9	7	7	3	3	1	1	4	11	6	3	2	604	9
10	17	3	3	5	6	14	9	9	2	2	1	1	4	10	7	3	1	604	10
11	16	3	2	5	7	12	9	8	4	2	1	2	4	13	5	4	2	604	11
12	15	4	2	5	5	11	7	7	5	3	1	2	4	15	7	3	2	605	12
13	10	3	2	4	4	10	7	9	6	4	2	2	7	16	6	6	1	604	13
14	9	3	3	4	2	8	8	8	7	3	1	2	7	18	7	5	3	604	14
15	9	3	2	3	3	7	5	8	7	5	2	2	6	21	7	6	2	605	15
16	11	3	3	4	2	5	5	6	6	6	3	4	8	19	8	5	3	604	16
17	12	3	5	4	2	3	3	7	6	5	3	5	8	22	6	5	2	594	17
18	13	2	2	3	1	2	2	3	4	4	2	4	10	29	6	6	2	586	18
19	10	1	1	0	1	1	2	5	3	3	1	4	8	38	11	8	3	585	19
20	11	1	1	1	0	1	2	4	3	4	2	3	6	38	13	7	3	585	20
21	12	2	1	1	0	1	2	4	2	3	2	2	5	40	15	7	2	586	21
22	14	2	1	1	0	1	4	4	2	2	2	3	5	35	17	8	2	586	22
23	15	1	1	1	0	1	2	3	3	2	1	2	5	33	17	9	2	584	23
BY MONTH	16	3	2	2	4	3	5	4	4	3	2	2	6	25	11	7	3	14372	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

		MONTH OF MARCH																	
HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	13	3	1	1	0	1	1	3	3	2	2	3	6	38	14	7	2	664	0
1	12	2	1	1	1	1	2	2	2	3	2	2	6	38	14	7	3	666	1
2	13	3	1	1	0	1	1	2	4	1	1	2	5	36	17	9	4	664	2
3	15	3	1	1	1	1	1	3	3	2	1	2	6	38	12	7	3	665	3
4	13	3	1	1	0	1	2	3	2	2	1	2	6	35	15	9	3	665	4
5	17	4	1	1	0	1	1	3	3	2	2	2	6	32	15	7	3	665	5
6	20	3	1	1	1	1	1	3	4	2	2	3	6	30	13	7	3	663	6
7	24	2	1	1	1	2	3	3	3	2	2	2	5	27	13	8	3	664	7
8	27	3	3	3	3	5	5	6	3	3	1	2	5	16	7	7	4	663	8
9	16	3	3	6	5	10	9	7	3	2	2	2	5	14	8	5	3	664	9
10	12	2	3	5	5	13	7	6	2	2	3	1	7	15	8	5	3	664	10
11	11	3	2	5	3	10	6	7	5	3	2	3	7	17	7	5	3	662	11
12	9	2	3	3	3	7	9	9	5	5	1	6	9	21	4	6	2	665	12
13	8	3	2	3	3	6	6	7	7	3	3	5	8	22	8	5	3	663	13
14	6	2	1	3	2	5	6	6	6	5	3	5	9	23	6	6	3	663	14
15	6	2	1	2	2	5	5	6	6	6	3	5	10	26	7	6	3	663	15
16	5	2	1	1	2	4	4	7	5	4	4	4	10	28	8	6	3	664	16
17	9	2	2	3	2	4	3	5	6	6	2	3	10	31	6	5	3	647	17
18	10	1	2	2	2	3	3	6	6	6	2	5	10	30	7	5	3	636	18
19	10	1	1	0	0	2	2	4	4	2	2	4	11	36	12	7	2	638	19
20	10	1	0	0	0	1	1	5	3	2	2	4	11	40	11	5	2	639	20
21	8	2	1	0	0	2	2	4	2	2	2	3	7	41	13	8	2	640	21
22	8	2	0	1	0	2	2	3	3	2	2	3	9	35	15	8	3	638	22
23	12	2	1	0	1	2	3	3	3	2	2	3	7	37	15	6	3	638	23
BY MONTH	12	2	1	2	2	4	3	5	4	3	2	3	8	29	11	6	3	15763	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	8	3	1	1	0	1	1	3	2	3	1	3	8	40	13	8	3	640	0
1	10	2	1	1	1	2	1	2	2	2	1	3	8	37	13	8	3	641	1
2	12	3	0	1	1	2	2	3	2	2	1	3	7	35	13	8	3	641	2
3	13	3	1	1	0	1	2	3	2	3	1	2	6	37	14	7	3	640	3
4	13	4	1	1	1	1	2	3	2	3	2	3	7	34	13	6	5	642	4
5	15	4	1	0	0	1	2	2	2	3	2	3	7	32	12	8	4	640	5
6	16	4	2	1	0	1	2	4	2	3	2	4	6	30	12	6	4	642	6
7	24	5	2	3	2	3	5	3	2	2	1	3	5	21	7	6	4	641	7
8	19	2	3	5	3	10	7	6	4	3	1	2	6	16	7	3	2	642	8
9	14	2	3	5	5	11	7	5	5	1	1	3	8	19	6	4	1	641	9
10	10	3	2	3	4	12	7	6	5	3	2	4	8	20	6	4	2	641	10
11	7	1	2	3	3	9	7	7	5	5	3	4	7	24	6	5	2	640	11
12	5	2	2	2	3	6	5	8	6	7	5	4	10	22	6	4	2	640	12
13	3	2	1	2	2	5	5	8	6	6	5	6	12	23	8	5	2	642	13
14	3	2	1	2	1	4	3	6	7	8	4	5	12	27	9	3	3	642	14
15	3	1	1	1	0	3	5	6	7	6	3	7	9	34	9	3	2	640	15
16	3	1	1	2	1	2	2	6	5	7	5	6	10	34	9	5	2	641	16
17	4	1	1	1	1	1	2	6	6	8	3	4	9	38	8	4	2	606	17
18	5	1	2	1	1	2	2	6	8	7	4	5	8	34	8	4	3	599	18
19	9	1	2	1	0	1	4	6	6	8	2	6	10	38	8	3	1	597	19
20	7	1	1	0	0	1	4	4	4	7	3	3	9	43	10	6	2	599	20
21	5	1	1	1	0	1	4	4	4	4	2	4	9	42	12	5	3	598	21
22	7	1	1	1	0	1	5	3	4	4	2	3	8	42	12	8	2	59b	22
23	7	2	1	0	1	1	4	3	3	3	2	4	7	40	15	6	3	598	23
BY MONTH	9	2	1	2	1	3	3	5	4	4	2	4	8	32	11	5	3	15089	

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR	
0	8	3	2	0	1	2	2	6	3	4	1	4	4	6	35	12	8	2	651	0
1	9	2	1	1	1	3	2	3	3	3	1	2	2	6	36	13	10	2	651	1
2	11	3	1	1	0	2	2	4	4	2	1	2	2	7	30	17	9	3	653	2
3	11	3	1	0	0	2	2	3	3	3	1	3	5	5	31	16	11	5	653	3
4	12	4	1	2	1	1	1	3	3	2	1	2	5	32	14	11	5	666	4	
5	12	5	1	1	0	1	2	3	2	2	1	2	6	30	17	10	4	666	5	
6	17	3	2	2	1	3	4	4	3	2	2	3	4	23	15	10	5	664	6	
7	20	6	5	4	4	3	7	7	4	3	1	3	4	13	6	8	5	664	7	
8	13	2	5	7	6	11	8	7	4	2	2	3	3	13	5	6	2	665	8	
9	12	2	3	5	5	11	8	9	4	3	2	3	5	15	5	4	2	663	9	
10	7	2	4	5	3	12	7	9	7	3	2	3	6	14	4	5	3	665	10	
11	6	3	2	3	3	9	8	9	6	7	2	4	7	16	4	6	3	664	11	
12	4	2	2	3	3	6	9	5	9	7	3	6	10	16	7	5	2	664	12	
13	2	3	1	3	3	9	9	9	7	4	4	5	9	22	6	6	2	664	13	
14	3	2	1	1	1	6	8	8	8	9	5	7	11	22	6	7	2	664	14	
15	2	2	1	2	1	4	3	6	7	10	5	6	11	25	8	5	2	663	15	
16	3	1	1	1	1	4	3	6	7	10	6	7	8	27	9	6	2	664	16	
17	4	1	1	1	1	4	4	6	6	10	6	6	9	28	9	6	1	630	17	
18	5	2	1	1	1	4	5	5	6	10	4	6	9	26	8	7	1	623	18	
19	6	1	1	1	1	3	3	6	6	9	5	7	8	29	9	4	1	623	19	
20	8	1	0	0	0	2	2	6	4	5	3	5	11	34	11	5	1	609	20	
21	7	1	0	1	0	2	3	5	6	5	1	6	7	37	11	6	2	607	21	
22	7	1	1	1	1	2	2	6	6	4	2	4	6	34	13	8	2	608	22	
23	7	1	1	1	1	2	3	6	4	4	1	4	7	32	13	9	3	607	23	
BY MONTH	8	2	2	2	2	4	4	6	5	5	2	4	7	26	10	7	3	1551		

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	9	4	1	1	1	2	4	6	10	4	1	3	4	31	8	7	3	590	0
1	12	3	1	1	1	3	4	7	7	4	1	2	4	29	10	10	3	611	1
2	13	3	1	1	1	3	3	7	6	3	1	2	3	27	12	10	4	609	2
3	15	5	2	0	1	3	2	4	5	3	1	1	3	26	15	9	3	613	3
4	17	5	1	2	1	4	2	4	4	3	1	2	3	26	14	11	5	643	4
5	16	5	2	1	1	4	2	3	4	2	1	2	3	28	15	11	4	642	5
6	25	8	3	3	4	7	2	4	3	2	1	1	2	20	14	11	4	640	6
7	26	8	4	4	6	12	6	6	4	2	1	0	2	11	7	7	2	641	7
8	19	5	4	6	5	12	8	8	4	3	0	2	3	9	6	4	3	640	8
9	14	5	3	5	6	14	10	12	4	2	1	1	2	10	5	5	2	641	9
10	10	2	4	4	5	12	10	11	6	3	1	2	3	12	6	5	2	640	10
11	7	3	3	5	4	12	11	11	9	6	2	2	5	14	5	4	2	642	11
12	6	3	3	3	3	8	11	11	10	7	3	3	5	12	8	5	2	643	12
13	6	3	3	3	3	7	11	11	7	10	3	4	5	15	8	4	3	641	13
14	4	2	3	2	3	7	10	10	10	10	4	5	7	14	8	5	2	640	14
15	5	3	1	2	2	5	13	13	8	8	5	5	7	18	8	3	2	639	15
16	3	2	2	3	1	6	13	13	7	12	4	4	8	21	5	5	2	642	16
17	4	2	1	3	1	5	7	8	7	12	5	4	6	22	8	3	2	630	17
18	6	2	1	1	1	4	9	9	8	9	5	5	7	23	7	4	1	602	18
19	7	1	1	2	1	3	11	11	8	11	3	5	7	24	7	4	1	601	19
20	8	2	1	1	1	2	10	10	9	10	2	6	6	28	8	4	2	572	20
21	9	1	1	2	1	1	10	10	9	7	1	5	5	30	9	6	1	572	21
22	8	2	1	2	1	2	10	10	8	6	1	4	5	29	10	7	2	571	22
23	8	3	1	1	1	4	7	8	8	6	1	3	4	30	9	8	2	573	23
BY MONTH	11	3	2	2	2	5	8	7	6	6	2	3	4	21	9	6	3	14878	

TABLE II (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	15	3	3	2	2	5	6	10	9	8	2	2	3	15	9	5	2	628	0
1	17	5	3	2	2	6	4	8	8	5	2	2	2	17	10	7	2	654	1
2	21	4	1	2	3	4	3	8	4	5	2	3	3	17	11	7	2	654	2
3	27	4	1	2	1	3	2	4	4	3	1	1	3	18	12	10	3	654	3
4	29	4	1	2	1	2	2	5	3	3	1	2	2	20	12	7	5	665	4
5	28	5	4	2	2	3	2	3	2	2	1	2	2	18	14	9	4	664	5
6	36	4	1	2	2	3	2	4	2	2	1	2	2	13	15	6	3	662	6
7	41	6	4	6	3	5	5	4	3	2	0	2	2	4	5	5	3	663	7
8	29	6	5	8	6	13	7	8	5	3	1	0	1	2	2	3	2	662	8
9	20	5	3	8	8	16	11	12	6	3	0	0	0	2	2	2	1	663	9
10	15	4	4	6	7	18	10	14	10	6	0	0	0	2	1	2	2	662	10
11	10	3	3	6	5	15	13	15	10	9	2	2	2	3	2	2	2	663	11
12	11	4	3	4	3	12	12	17	11	8	3	2	1	3	3	2	2	665	12
13	7	4	2	4	4	11	10	12	14	10	3	2	2	6	3	2	1	665	13
14	6	4	2	4	3	13	7	13	13	13	2	3	3	6	4	3	3	663	14
15	6	2	2	4	4	11	10	14	11	11	2	4	4	9	3	3	2	663	15
16	6	1	2	3	3	9	11	14	12	13	3	3	3	6	3	4	2	663	16
17	8	3	2	2	3	7	11	14	13	13	2	3	3	6	4	3	2	649	17
18	8	2	2	2	2	7	12	15	12	14	2	2	2	11	2	3	1	621	18
19	11	1	1	2	3	6	8	15	13	13	3	3	3	10	5	3	1	619	19
20	13	1	1	0	1	2	6	13	12	10	2	3	3	16	7	5	2	609	20
21	12	3	1	2	1	3	4	13	11	9	1	2	2	17	10	6	2	610	21
22	11	2	1	3	1	3	4	11	13	7	1	3	3	16	10	6	3	611	22
23	14	4	2	1	2	3	5	11	12	7	1	2	5	15	10	5	2	610	23
BY MONTH	17	4	2	3	3	7	7	11	9	7	2	2	2	10	7	5	2	15542	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	17	3	2	2	2	3	4	6	6	5	2	2	3	23	10	7	4	656	0
1	21	4	2	2	1	3	3	6	6	3	1	1	2	21	14	9	2	666	1
2	18	4	1	2	2	4	3	4	4	5	2	2	3	22	15	7	3	666	2
3	24	3	1	2	2	4	3	4	5	3	1	1	2	25	10	9	3	665	3
4	28	3	2	1	1	3	1	3	3	2	1	1	1	24	14	9	2	666	4
5	28	2	1	1	0	2	1	2	2	2	1	0	3	23	14	10	3	664	5
6	28	3	1	1	1	2	1	3	3	3	1	1	3	21	17	10	3	662	6
7	41	7	4	4	2	4	4	4	4	2	1	0	1	8	7	6	3	665	7
8	34	6	5	6	6	11	7	4	4	2	1	0	1	3	2	2	2	665	8
9	21	4	4	6	6	19	12	5	5	3	0	0	1	2	2	2	2	665	9
10	15	5	3	5	8	17	11	9	9	4	0	1	1	3	2	2	2	664	10
11	13	5	4	6	6	17	11	12	9	6	1	1	2	2	2	2	1	666	11
12	13	5	3	3	6	11	10	15	12	9	2	1	2	5	3	3	3	665	12
13	6	4	2	4	4	11	10	14	11	18	2	2	2	9	5	5	2	666	13
14	7	3	2	3	3	8	9	14	9	12	3	2	3	9	5	4	2	664	14
15	8	3	2	2	3	10	10	12	9	12	3	3	4	8	4	5	2	665	15
16	7	3	2	2	2	10	8	13	10	12	4	3	3	9	4	5	2	665	16
17	7	3	2	2	2	9	9	13	10	12	2	2	4	10	4	4	2	648	17
18	9	2	1	2	2	6	9	15	15	10	2	2	3	11	5	5	1	635	18
19	12	1	2	3	2	4	6	12	12	12	2	3	5	13	8	5	1	635	19
20	14	2	2	3	3	3	3	10	11	9	1	2	5	19	10	5	1	634	20
21	14	3	2	1	1	2	3	10	9	9	1	2	4	21	11	6	1	635	21
22	14	3	1	2	1	2	3	10	11	6	1	2	4	18	11	7	3	635	22
23	15	3	2	2	1	3	3	9	10	6	1	2	3	19	12	7	2	633	23
BY MONTH	17	3	2	3	3	7	6	8	8	6	2	2	3	14	8	6	2	15750	

TABLE 11 (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	2	1	3	3	6	4	2	2	3	3	24	13	10	2	642	0
1	16	2	1	2	1	1	2	5	4	1	1	1	5	26	15	9	3	640	1
2	19	3	1	1	1	2	2	4	4	1	2	2	4	21	16	10	1	638	2
3	22	2	1	1	1	2	3	3	1	1	1	3	2	24	17	10	4	640	3
4	21	3	1	2	1	2	2	3	2	1	1	2	2	24	20	10	2	641	4
5	25	4	2	1	1	2	2	2	1	1	1	3	3	25	17	8	3	641	5
6	28	2	0	1	1	3	1	2	1	1	1	3	3	25	16	9	3	639	6
7	40	4	2	2	1	2	2	4	2	1	1	2	2	12	8	8	4	637	7
8	32	4	4	5	6	10	7	5	2	0	1	1	1	4	3	4	2	637	8
9	21	1	5	7	9	14	12	5	3	0	0	2	3	5	3	2	1	637	9
10	16	3	4	9	7	15	10	5	3	1	0	3	3	5	3	2	2	638	10
11	13	3	3	5	8	11	14	7	5	2	1	2	2	5	5	3	3	638	11
12	10	2	2	3	4	13	15	8	6	2	1	3	3	8	4	3	3	640	12
13	6	3	2	4	4	11	12	12	8	2	3	3	3	10	5	3	2	641	13
14	7	3	2	4	3	10	13	8	10	3	2	4	4	13	5	4	3	640	14
15	7	3	2	2	2	7	13	11	9	4	3	3	5	13	6	5	2	638	15
16	8	2	3	3	2	7	11	13	10	4	4	3	4	16	6	4	2	640	16
17	10	2	2	2	2	5	12	13	11	3	3	3	5	14	4	4	2	630	17
18	13	2	2	2	2	3	10	11	10	3	6	4	5	15	4	4	1	621	18
19	15	2	1	1	1	1	4	9	7	2	4	4	6	22	4	5	2	623	19
20	15	1	1	1	0	3	10	9	4	2	3	3	6	22	11	6	2	621	20
21	14	1	1	1	1	2	10	7	5	1	2	4	4	25	11	8	2	620	21
22	14	2	1	1	1	2	9	7	5	1	2	5	5	23	14	8	1	622	22
23	16	2	1	1	1	2	8	8	5	1	2	4	4	24	12	7	2	623	23
BY MONTH	17	2	2	3	2	6	5	9	7	5	2	2	4	17	10	6	2	15227	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	1	1	2	3	3	3	3	1	2	5	32	17	7	2	672	0
1	17	3	1	1	0	1	3	2	3	3	1	2	6	27	14	10	2	672	1
2	15	4	1	1	0	2	3	3	3	3	2	2	4	29	15	10	3	674	2
3	15	3	1	1	0	1	3	4	3	3	1	3	5	29	14	8	3	673	3
4	16	3	2	1	0	1	3	3	3	3	2	1	6	27	17	6	3	673	4
5	21	3	1	1	0	1	3	4	2	2	1	2	5	29	13	8	3	672	5
6	22	3	2	1	1	1	3	3	3	3	1	2	5	29	15	5	4	676	6
7	31	5	1	1	1	2	5	3	4	4	0	1	4	22	9	7	3	674	7
8	35	4	3	5	4	7	9	5	5	4	1	1	2	7	5	3	2	675	8
9	23	2	3	6	6	17	11	9	8	3	1	1	3	7	4	2	1	675	9
10	19	4	3	6	6	18	11	9	9	3	1	2	2	6	3	3	1	673	10
11	14	3	3	6	7	15	11	9	9	5	1	2	3	7	3	3	1	676	11
12	13	2	2	6	6	14	11	11	7	5	1	3	3	11	3	3	2	673	12
13	13	2	3	4	4	12	9	10	8	6	2	3	4	10	5	4	1	671	13
14	9	3	2	2	2	10	7	10	9	7	3	3	5	14	6	4	2	670	14
15	9	2	2	4	3	15	8	10	9	10	3	3	4	15	7	3	2	673	15
16	10	3	3	3	2	4	6	11	11	9	2	4	5	15	6	4	1	670	16
17	14	3	2	2	1	3	6	8	6	8	5	7	9	16	3	3	2	651	17
18	15	1	1	1	0	2	3	5	6	6	4	2	7	32	10	3	2	647	18
19	13	0	0	0	1	1	2	6	6	4	2	3	5	32	16	6	1	648	19
20	11	1	1	1	0	2	2	6	6	4	2	2	6	34	15	5	2	647	20
21	13	0	0	1	0	2	2	6	6	4	1	3	7	32	16	5	2	649	21
22	13	1	1	1	0	2	3	5	6	3	3	3	6	33	14	8	1	647	22
23	14	3	1	1	1	2	2	3	5	2	2	2	4	31	17	7	3	647	23
BY MONTH	16	2	2	2	2	5	6	5	4	4	2	3	5	22	11	5	2	1578	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER		WIND DIRECTION											OBSERVATIONS						
HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	3	1	1	0	1	2	3	4	3	1	3	6	30	17	7	4	635	0
1	15	3	1	1	0	2	2	2	5	3	1	1	6	30	16	9	3	637	1
2	17	3	1	1	0	1	3	3	2	3	1	2	5	32	15	7	5	637	2
3	19	2	1	1	0	1	3	3	3	3	1	2	6	33	13	9	3	636	3
4	19	3	2	1	0	1	2	2	3	2	1	3	5	31	14	9	3	637	4
5	21	3	1	1	1	2	2	2	3	3	2	2	4	30	12	9	2	640	5
6	21	3	0	2	1	2	3	3	2	3	2	2	5	32	12	6	3	636	6
7	25	3	1	1	1	1	4	4	3	3	1	3	4	28	11	6	4	636	7
8	37	3	3	3	2	4	6	6	4	2	1	1	3	13	4	4	3	634	8
9	26	2	3	5	8	13	9	8	4	1	0	1	2	10	4	3	2	636	9
10	19	2	3	6	7	15	11	10	4	1	1	2	4	8	5	3	2	636	10
11	18	2	3	5	8	16	10	7	4	2	1	2	3	11	4	1	3	637	11
12	17	3	3	5	8	12	9	9	4	3	1	2	5	11	5	3	1	634	12
13	14	3	3	5	5	12	9	9	5	3	2	3	4	12	5	4	3	634	13
14	13	2	2	4	5	9	8	10	7	4	2	3	5	13	4	5	3	633	14
15	15	3	2	4	3	10	6	8	6	7	2	2	5	15	5	4	3	634	15
16	15	3	2	4	3	3	5	9	8	7	4	6	6	15	6	3	2	633	16
17	18	1	2	3	3	2	3	5	3	3	3	5	9	31	7	4	2	630	17
18	13	1	0	1	1	1	3	3	3	3	2	3	8	40	12	5	1	615	18
19	11	1	0	1	1	1	2	5	2	2	2	2	7	38	15	7	2	615	19
20	10	2	0	1	1	3	3	4	3	1	1	2	6	39	17	6	2	614	20
21	12	1	1	1	1	2	2	3	4	3	0	3	6	36	19	7	2	614	21
22	15	2	0	1	1	1	2	2	3	2	1	2	5	35	14	10	2	613	22
23	15	2	1	1	1	2	2	2	3	2	1	3	5	33	17	8	2	618	23
BY MONTH	17	2	2	2	2	5	4	5	4	3	1	3	5	25	11	6	2	15124	

TABLE II (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF WIND DIRECTIONS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	CALM	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	OBSERVATIONS	HOUR
0	14	2	1	2	1	1	1	2	3	3	2	3	6	33	13	7	4	635	0
1	18	2	1	1	1	2	1	3	3	3	2	2	8	33	14	6	2	637	1
2	20	2	1	1	0	1	1	3	3	2	1	3	6	33	14	5	3	638	2
3	22	2	1	1	1	2	1	1	3	3	2	3	6	32	12	6	2	638	3
4	21	2	1	0	1	1	1	2	3	3	2	3	6	32	12	6	2	638	4
5	23	3	1	1	1	1	1	2	3	3	2	1	5	33	13	6	2	639	5
6	26	3	1	1	1	1	1	3	2	2	2	6	6	32	11	6	2	638	6
7	26	3	1	1	1	1	1	3	2	2	1	5	5	31	11	4	3	639	7
8	36	2	1	1	1	1	1	3	3	3	1	2	5	18	10	4	3	650	8
9	33	2	2	4	3	9	7	6	4	2	1	1	4	10	5	3	2	648	9
10	27	2	2	6	5	13	8	8	3	3	1	2	4	8	4	2	1	648	10
11	21	2	2	5	7	16	10	6	5	2	0	1	4	10	4	2	2	650	11
12	21	4	3	4	5	15	9	6	4	3	1	1	4	13	4	1	1	646	12
13	18	2	2	4	6	14	9	6	4	4	2	2	3	14	5	3	1	647	13
14	18	3	4	4	4	10	7	5	6	3	1	2	7	13	5	4	2	645	14
15	19	3	4	4	4	10	7	8	4	4	1	2	6	16	6	2	2	647	15
16	15	1	4	5	1	6	3	6	7	8	5	7	6	14	5	2	2	645	16
17	17	3	2	2	1	2	2	3	2	2	3	3	7	35	8	5	2	623	17
18	14	1	1	1	0	1	1	2	2	2	2	3	6	42	14	6	2	616	18
19	13	1	1	1	0	1	1	2	2	1	2	3	6	40	15	6	2	616	19
20	13	2	1	1	1	1	1	2	3	3	1	4	6	38	16	5	2	614	20
21	17	2	1	0	1	1	1	1	1	1	2	7	7	38	14	6	3	612	21
22	14	1	1	1	1	1	1	2	3	3	1	2	6	39	13	9	2	615	22
23	14	2	1	1	1	1	1	3	3	3	1	2	6	36	14	7	3	618	23
BY MONTH	20	2	2	2	2	5	4	4	3	3	2	2	6	27	10	5	2	15242	

TABLE III

PREVAILING SURFACE WIND DIRECTION, AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS		BY MONTH	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR	
0	N	682	37	6	0	682	0	
1	N	688	37	6	0	688	1	
2	N	689	36	5	0	689	2	
3	N	689	36	6	0	689	3	
4	N	689	34	5	0	689	4	
5	N	692	32	5	0	692	5	
6	N	693	35	5	0	693	6	
7	N	693	36	4	0	693	7	
8	N	695	38	4	0	695	8	
9	N	698	35	4	0	698	9	
10	E	696	38	5	0	696	10	
11	E	697	41	5	0	697	11	
12	E	692	40	6	0	692	12	
13	N	692	34	6	0	692	13	
14	N	693	35	7	0	693	14	
15	N	692	32	7	0	692	15	
16	N	691	30	6	0	691	16	
17	N	680	31	6	0	680	17	
18	N	670	35	6	0	670	18	
19	N	690	36	6	0	690	19	
20	N	689	33	6	0	689	20	
21	N	688	38	6	0	688	21	
22	N	688	36	6	0	688	22	
23	N	671	35	6	0	671	23	
BY MONTH							16537	
W							41	6
N							16537	0

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	WIND DIRECTION	WIND SPEED (KNOTS)				TOTAL OBSERVATIONS	LOW	MEAN	HIGH	TOTAL OBSERVATIONS	HOUR
		PREVAILING	TOTAL OBSERVATIONS	•HIGH	•MEAN						
0	V		631	34	7	0	631	0	631	0	
1	N		632	34	6	0	632	0	632	1	
2	W		631	39	6	0	631	0	631	2	
3	N		631	38	6	0	631	0	631	3	
4	W		632	36	6	0	632	0	632	4	
5	N		633	28	6	0	633	0	633	5	
6	N		631	34	5	0	631	0	631	6	
7	N		632	30	5	0	632	0	632	7	
8	N		631	34	5	0	631	0	631	8	
9	N		632	33	5	0	632	0	632	9	
10	E		632	35	6	0	632	0	632	10	
11	W		632	35	6	0	632	0	632	11	
12	W		632	34	7	0	632	0	632	12	
13	W		632	35	7	0	632	0	632	13	
14	N		631	32	8	0	631	0	631	14	
15	N		632	30	8	0	632	0	632	15	
16	N		631	30	8	0	631	0	631	16	
17	N		621	32	8	0	621	0	621	17	
18	N		615	36	7	0	615	0	615	18	
19	W		631	41	7	0	631	0	631	19	
20	N		632	36	7	0	632	0	632	20	
21	W		633	42	7	0	633	0	633	21	
22	N		613	42	7	0	613	0	613	22	
23	N		613	35	7	0	613	0	613	23	
BY MONTH	W	15115	42	7	0	15115	0	15115	0	15115	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS	LOW	TOTAL OBSERVATIONS	HOUR
HOUR	PREVAILING	HIGH	MEAN	LOW				
0	N	30	9	0	695	0	695	0
1	N	30	8	0	697	0	697	1
2	N	30	8	0	695	0	695	2
3	N	30	7	0	696	0	696	3
4	N	30	7	0	698	0	698	4
5	N	27	7	0	698	0	698	5
6	N	30	6	0	694	0	694	6
7	N	31	6	0	695	0	695	7
8	N	30	6	0	697	0	697	8
9	N	30	7	0	697	0	697	9
10	N	30	6	0	700	0	700	10
11	N	28	8	0	698	0	698	11
12	N	35	9	0	696	0	696	12
13	N	34	9	0	694	0	694	13
14	N	28	9	0	694	0	694	14
15	N	42	10	0	694	0	694	15
16	N	32	9	0	695	0	695	16
17	N	33	9	0	679	0	679	17
18	N	45	8	0	667	0	667	18
19	N	32	8	0	693	0	693	19
20	N	39	9	0	692	0	692	20
21	N	33	9	0	692	0	692	21
22	N	46	8	0	690	0	690	22
23	N	26	8	0	670	0	670	23
BY MONTH	N	46	8	0	16616	0	16616	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS		TOTAL OBSERVATIONS		BY MONTH
HOUR	PREVAILING	HIGH	MEAN	LOW	WIND SPEED (KNOTS)	WIND SPEED (KNOTS)	HOUR	BY MONTH	BY MONTH
0	W	31	7	0	670	670	0	W	15905
1	W	40	9	0	671	671	1	W	15905
2	W	44	8	0	671	671	2	W	15905
3	W	30	8	0	672	672	3	W	15905
4	W	30	7	0	675	675	4	W	15905
5	W	28	7	0	674	674	5	W	15905
6	W	30	6	0	672	672	6	W	15905
7	W	33	6	0	671	671	7	W	15905
8	W	32	7	0	675	675	8	W	15905
9	W	30	8	0	673	673	9	W	15905
10	W	34	8	0	673	673	10	W	15905
11	W	39	9	0	672	672	11	W	15905
12	W	37	10	0	670	670	12	W	15905
13	W	34	10	0	672	672	13	W	15905
14	W	40	10	0	672	672	14	W	15905
15	W	44	11	0	671	671	15	W	15905
16	W	35	11	0	672	672	16	W	15905
17	W	36	10	0	637	637	17	W	15905
18	W	44	10	0	629	629	18	W	15905
19	W	40	9	0	646	646	19	W	15905
20	W	39	9	0	647	647	20	W	15905
21	W	35	10	0	646	646	21	W	15905
22	W	30	9	0	646	646	22	W	15905
23	W	29	9	0	628	628	23	W	15905
BY MONTH W 15905 44 9 0 15905									

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW			
0	N	692	28	6	0	682	0	
1	N	682	30	8	0	682	1	
2	N	684	30	7	0	684	2	
3	N	684	30	7	0	684	3	
4	N	697	32	6	0	697	4	
5	N	699	34	6	0	699	5	
6	N	695	35	5	0	695	6	
7	N	695	36	5	0	695	7	
8	N	698	27	6	0	698	8	
9	N	696	27	7	0	696	9	
10	N	698	30	8	0	698	10	
11	N	697	26	8	0	697	11	
12	N	695	28	9	0	695	12	
13	N	695	30	9	0	695	13	
14	N	695	30	9	0	695	14	
15	N	708	30	9	0	708	15	
16	N	698	32	10	0	698	16	
17	N	664	32	9	0	664	17	
18	N	655	29	9	0	655	18	
19	N	674	30	8	0	674	19	
20	N	657	30	8	0	657	20	
21	N	654	32	8	0	654	21	
22	N	654	36	8	0	654	22	
23	N	639	26	8	0	639	23	
BY MONTH		16395	36	8	0	16395		

\* MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL	WIND SPEED (KNOTS)		TOTAL	HOUR
HOUR	PREVAILING	PREVAILING	HIGH	MEAN	LOW	LOW	MEAN	OBSERVATIONS	HOUR
0	W	620	30	7	0	0	620	620	U
1	W	641	30	7	0	0	641	641	1
2	W	639	26	6	0	0	639	639	2
3	W	643	28	6	0	0	643	643	3
4	W	673	22	5	0	0	673	673	4
5	W	672	20	5	0	0	672	672	5
6	W	669	26	4	0	0	669	669	6
7	W	670	25	4	0	0	670	670	7
8	E	669	28	5	0	0	669	669	8
9	E	671	27	6	0	0	671	671	9
10	ESE	670	26	7	0	0	670	670	10
11	W	672	30	7	0	0	672	672	11
12	W	674	22	7	0	0	674	674	12
13	W	572	28	8	0	0	672	672	13
14	W	674	26	8	0	0	674	674	14
15	W	703	34	8	0	0	703	703	15
16	W	677	25	8	0	0	677	677	16
17	W	666	31	9	0	0	666	666	17
18	W	639	26	8	0	0	639	639	18
19	W	652	26	8	0	0	652	652	19
20	W	623	23	7	0	0	623	623	20
21	W	624	30	7	0	0	624	624	21
22	W	621	35	8	0	0	621	621	22
23	W	605	28	8	0	0	605	605	23
BY MONTH	W	15739	35	7	0	0	15739	15739	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL OBSERVATIONS	LOH	TOTAL OBSERVATIONS	HOUR
HOUR	PREVAILING	HIGH	MEAN	LOW					
0	W	20	5	0	659				
1	W	23	5	0	685				
2	W	23	4	0	685				
3	W	22	3	0	685				
4	W	22	3	0	696				
5	W	25	3	0	695				
6	WNW	13	3	0	693				
7	WNE	15	2	0	694				
8	E	16	3	0	693				
9	E	18	4	0	694				
10	E	17	5	0	694				
11	E	22	5	0	695				
12	SE	20	5	0	696				
13	SSE	24	6	0	695				
14	SE	24	6	0	693				
15	SE	22	7	0	703				
16	SE	25	7	0	693				
17	SE	28	7	0	679				
18	SE	23	7	0	653				
19	SE	26	6	0	670				
20	W	20	6	0	660				
21	W	26	6	0	659				
22	W	22	6	0	659				
23	W	24	6	0	646				
BY MONTH	SE	28	5	0	16374				

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL OBSERVATIONS		TOTAL OBSERVATIONS		HOUR	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	LOW	MEAN	HIGH	TOTAL OBSERVATIONS	HOUR
0	N	687	22	5	0	687	0	5	22	687	0
1	W	697	20	4	0	697	0	4	20	697	1
2	W	697	24	4	0	697	0	4	24	697	2
3	W	696	20	3	0	696	0	3	20	696	3
4	W	697	21	3	0	697	0	3	21	697	4
5	W	695	15	3	0	695	0	3	15	695	5
6	W	693	20	3	0	693	0	3	20	693	6
7	W	696	22	2	0	696	0	2	22	696	7
8	E	696	18	3	0	696	0	3	18	696	8
9	E	696	19	4	0	696	0	4	19	696	9
10	E	695	17	4	0	695	0	4	17	695	10
11	E	697	20	5	0	697	0	5	20	697	11
12	SE	697	19	5	0	697	0	5	19	697	12
13	SE	697	19	6	0	697	0	6	19	697	13
14	SE	695	18	4	0	695	0	4	18	695	14
15	SE	696	18	7	0	696	0	7	18	696	15
16	SE	696	20	6	0	696	0	6	20	696	16
17	SSE	679	24	6	0	679	0	6	24	679	17
18	SSE	667	20	6	0	667	0	6	20	667	18
19	W	685	24	5	0	685	0	5	24	685	19
20	W	685	26	5	0	685	0	5	26	685	20
21	W	684	24	5	0	684	0	5	24	684	21
22	W	684	25	5	0	684	0	5	25	684	22
23	W	666	26	5	0	666	0	5	26	666	23
BY MONTH	W	16573	26	5	0	16573	0	5	26	16573	

\* MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS	LOW	MEAN	HIGH	TOTAL OBSERVATIONS	HOUR
HOUR	PREVAILING	TOTAL OBSERVATIONS	• HIGH	MEAN						
0	N	672	22	5	0	672	0			
1	W	670	26	4	0	670	0			
2	N	673	26	4	0	673	0			
3	W	675	24	4	0	675	0			
4	W	676	22	4	0	676	0			
5	W	675	25	3	0	675	0			
6	N	669	20	3	0	669	0			
7	N	667	18	2	0	667	0			
8	E	667	25	3	0	667	0			
9	E	667	33	4	0	667	0			
10	E	670	23	4	0	670	0			
11	SE	670	26	5	0	670	0			
12	SE	670	20	5	0	670	0			
13	SE	672	20	6	0	672	0			
14	SE	672	24	6	0	672	0			
15	N	669	26	6	0	669	0			
16	W	671	27	6	0	671	0			
17	W	662	26	6	0	662	0			
18	N	652	24	5	0	652	0			
19	W	682	25	5	0	682	0			
20	W	676	22	5	0	676	0			
21	W	672	22	5	0	672	0			
22	W	674	20	5	0	674	0			
23	W	656	21	5	0	656	0			
BY MONTH		16079	33	5	0	16079	0			

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL OBSERVATIONS		TOTAL OBSERVATIONS		HOUR	
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR	TOTAL OBSERVATIONS	HOUR	TOTAL OBSERVATIONS	
0	N	703	26	5	0	703	0	703	0	703	
1	W	703	34	5	0	703	1	703	1	703	
2	W	705	38	5	0	705	2	705	2	705	
3	W	706	34	5	0	706	3	706	3	706	
4	W	706	32	4	0	706	4	706	4	706	
5	W	705	38	4	0	705	5	705	5	705	
6	W	707	28	4	0	707	6	707	6	707	
7	W	705	24	3	0	705	7	705	7	705	
8	SE	706	25	3	0	706	8	706	8	706	
9	E	706	23	4	0	706	9	706	9	706	
10	E	704	27	5	0	704	10	704	10	704	
11	E	707	20	5	0	707	11	707	11	707	
12	E	704	28	6	0	704	12	704	12	704	
13	E	702	24	6	0	702	13	702	13	702	
14	W	701	25	6	0	701	14	701	14	701	
15	W	705	25	6	0	705	15	705	15	705	
16	W	702	28	6	0	702	16	702	16	702	
17	W	685	32	5	0	685	17	685	17	685	
18	W	682	26	5	0	682	18	682	18	682	
19	W	702	26	5	0	702	19	702	19	702	
20	W	697	34	5	0	697	20	697	20	697	
21	W	697	28	5	0	697	21	697	21	697	
22	W	693	30	5	0	693	22	693	22	693	
23	W	678	30	5	0	678	23	678	23	678	
BY MONTH	W	16811	38	5	0	16811				16811	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

WIND DIRECTION		WIND SPEED (KNOTS)			TOTAL OBSERVATIONS		HOURLY
HOUR	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	HOURLY	HOURLY
0	N	665	30	6	0	665	0
1	N	667	34	6	0	667	1
2	N	667	32	6	0	667	2
3	N	667	35	5	0	667	3
4	N	668	36	5	0	668	4
5	N	671	36	5	0	671	5
6	N	666	30	5	0	666	6
7	N	666	28	4	0	666	7
8	N	664	35	4	0	664	8
9	E	666	33	5	0	666	9
10	E	666	30	5	0	666	10
11	E	667	35	6	0	667	11
12	E	664	33	6	0	664	12
13	E	664	27	6	0	664	13
14	N	663	28	6	0	663	14
15	N	664	31	6	0	664	15
16	N	664	29	6	0	664	16
17	N	661	30	5	0	661	17
18	N	645	30	6	0	645	18
19	N	668	27	6	0	668	19
20	N	667	34	6	0	667	20
21	N	667	38	6	0	667	21
22	N	667	39	6	0	667	22
23	N	650	35	6	0	650	23
BY MONTH	N	15944	39	6	0	15944	

• MAXIMUM SUSTAINED WIND SPEED

TABLE III (CONT.)

PREVAILING SURFACE WIND DIRECTION AND MEAN SPEED BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	WIND DIRECTION		WIND SPEED (KNOTS)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	PREVAILING	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	0			
0	N	666	30	6	0	0	666	0	
1	N	668	35	6	0	0	668	1	
2	N	670	32	6	0	0	670	2	
3	W	670	32	5	0	0	670	3	
4	N	670	36	5	0	0	670	4	
5	N	671	38	5	0	0	671	5	
6	N	669	34	5	0	0	669	6	
7	N	669	36	5	0	0	669	7	
8	N	682	30	4	0	0	682	8	
9	N	681	29	5	0	0	681	9	
10	E	682	30	5	0	0	682	10	
11	E	692	34	5	0	0	692	11	
12	E	690	36	6	0	0	690	12	
13	E	689	37	6	0	0	689	13	
14	W	679	44	6	0	0	679	14	
15	W	680	40	6	0	0	680	15	
16	N	678	30	6	0	0	678	16	
17	N	658	36	6	0	0	658	17	
18	N	647	36	6	0	0	647	18	
19	N	666	33	6	0	0	666	19	
20	N	660	38	6	0	0	660	20	
21	N	654	40	6	0	0	654	21	
22	N	659	30	6	0	0	659	22	
23	N	651	37	6	0	0	651	23	
BY MONTH		16101	44	6	0	0	16101		

• MAXIMUM SUSTAINED WIND SPEED

TABLE IVa.

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				HOUR
		<20	>20 <30	>30 <40	>40 <50	
1	60 260	85	7	5	1	0
2	53 260	86	7	2	4	0
3	58 230	86	5	7	0	0
4	54 250	84	8	5	1	0
5	52 260	84	8	6	2	0
6	57 260	87	7	4	2	0
7	63 280	88	6	3	2	0
8	47 290	88	5	4	3	0
9	47 280	89	7	1	3	0
10	54 250	88	9	2	0	0
11	60 250	85	7	5	2	0
12	63 250	81	11	6	2	0
13	60 250	78	12	7	1	0
14	49 260	77	14	6	3	0
15	49 260	74	16	6	4	0
16	52 270	77	14	4	4	0
17	50 260	79	12	6	3	0
18	51 260	78	12	7	2	0
19	58 260	79	10	8	2	0
20	62 240	77	13	5	3	0
21	62 260	80	11	6	2	0
22	60 260	80	11	8	0	0
23	61 260	82	10	6	1	0
24	61 260	82	8	6	2	0
BY MONTH	63 250	82	10	5	2	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR

'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
1967-1973

FEBRUARY

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	>20 <30		>30 <40		>40 <50		>50 <60	>60	HOUR
			>20 <30	>30 <40	>30 <40	>40 <50	>50 <60	>60			
1	50 240	81	12	4	3	1	0	0	1	1	1
2	49 210	83	10	6	2	0	0	0	0	0	2
3	48 210	84	8	7	2	0	0	0	0	0	3
4	53 260	82	9	4	2	1	0	0	0	0	4
5	56 230	84	7	8	1	1	0	0	0	0	5
6	56 310	82	11	5	2	1	0	0	0	0	6
7	49 230	86	8	4	2	0	0	0	0	0	7
8	44 250	89	6	4	2	0	0	0	0	0	8
9	42 300	88	7	3	2	0	0	0	0	0	9
10	44 270	87	7	5	1	0	0	0	0	0	10
11	45 220	81	11	7	1	0	0	0	0	0	11
12	46 240	79	13	7	1	0	0	0	0	0	12
13	49 260	75	14	8	3	0	0	0	0	0	13
14	46 260	73	17	9	2	0	0	0	0	0	14
15	43 270	74	11	13	2	0	0	0	0	0	15
16	56 280	73	15	9	2	1	0	0	0	0	16
17	71 270	76	9	13	2	0	0	1	0	1	17
18	49 260	77	12	8	4	0	0	0	0	0	18
19	60 260	78	12	6	4	0	0	1	0	0	19
20	47 270	77	11	9	4	0	0	0	0	0	20
21	57 260	79	10	9	2	1	0	0	0	0	21
22	61 260	78	10	10	2	0	0	1	0	0	22
23	58 270	77	12	9	2	1	0	0	0	0	23
24	53 270	80	9	9	2	1	0	0	0	0	24
BY MONTH	71 270	80	10	7	2	0	0	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	MARCH		GUST (KNOTS)				HOUR
		<20	>20 <30	>30 <40	>40 <50	>50 <60	>60	
1	60 190	70	15	13	2	0	0	1
2	49 270	73	13	10	3	0	0	2
3	48 270	75	14	8	3	0	0	3
4	54 290	74	16	6	1	1	0	4
5	48 240	77	11	9	3	0	0	5
6	55 260	60	10	9	1	0	0	6
7	53 250	78	13	6	2	0	0	7
8	53 270	82	10	6	2	0	0	8
9	50 270	74	16	6	4	0	0	9
10	51 240	75	14	7	4	0	0	10
11	51 280	67	19	12	2	1	0	11
12	53 270	58	28	11	2	0	0	12
13	47 270	53	31	11	5	0	0	13
14	50 240	53	28	13	6	1	0	14
15	62 290	50	30	15	4	1	0	15
16	63 300	53	25	16	5	0	0	16
17	59 340	57	27	12	3	1	0	17
18	54 300	61	21	12	4	2	0	18
19	52 250	61	21	13	4	0	0	19
20	48 250	62	21	13	4	0	0	20
21	53 270	62	23	11	4	0	0	21
22	73 250	65	21	9	5	0	0	22
23	59 260	66	22	9	3	0	0	23
24	49 280	67	19	11	3	0	0	24
BY MONTH	73 250	64	20	10	3	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

APRIL

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20		>20 <30		>30 <40		>40 <50		>50 <60		HOUR
1	61 350	64	19	14	2	1	0	0	0	0	0	1
2	78 300	66	16	14	2	2	0	0	0	0	0	2
3	56 250	68	16	13	2	0	0	0	0	0	0	3
4	51 240	71	16	11	1	1	0	0	0	0	0	4
5	51 250	73	14	10	1	0	0	0	0	0	0	5
6	44 230	75	14	10	1	0	0	0	0	0	0	6
7	70 290	76	12	10	1	0	0	0	0	0	0	7
8	47 260	74	13	10	3	0	0	0	0	0	0	8
9	57 240	68	16	13	2	1	0	0	0	0	0	9
10	50 210	64	18	15	3	0	0	0	0	0	0	10
11	56 260	55	25	13	7	0	0	0	0	0	0	11
12	56 250	48	28	18	5	1	0	0	0	0	0	12
13	59 290	41	31	16	9	1	0	0	0	0	0	13
14	55 240	37	33	22	8	0	0	0	0	0	0	14
15	58 260	37	30	26	5	1	0	0	0	0	0	15
16	63 270	34	36	20	5	3	0	0	0	0	0	16
17	53 270	40	30	19	6	3	0	0	0	0	0	17
18	60 270	46	25	22	5	1	0	0	0	0	0	18
19	51 270	52	26	16	5	0	0	0	0	0	0	19
20	50 270	87	22	18	3	0	0	0	0	0	0	20
21	55 220	59	20	18	2	1	0	0	0	0	0	21
22	61 60	61	23	12	3	1	0	0	0	0	0	22
23	54 270	60	24	11	4	1	0	0	0	0	0	23
24	45 250	63	19	15	3	0	0	0	0	0	0	24
BY MONTH	78 300	58	22	15	4	1	0	0	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	MAY		GUST (KNOTS)				HOUR
			>=20 <30	>=30 <40	>=40 <50	>=50 <60	>=60		
1	40 230	74	10	0	0	0	0	1	
2	30 270	76	16	0	0	0	0	2	
3	41 260	70	15	6	0	0	0	3	
4	40 270	03	12	5	0	0	0	4	
5	45 260	05	10	5	1	0	0	5	
6	40 230	08	6	7	0	0	0	6	
7	51 260	05	10	4	0	0	0	7	
8	40 260	06	9	4	1	0	0	8	
9	49 240	02	12	5	1	0	0	9	
10	53 230	73	19	5	1	0	0	10	
11	44 230	71	22	6	1	0	0	11	
12	49 270	66	25	0	1	0	0	12	
13	52 250	56	33	10	1	0	0	13	
14	40 270	52	34	12	2	0	0	14	
15	55 220	40	36	13	2	1	0	15	
16	50 190	45	35	14	6	0	0	16	
17	50 270	51	35	12	1	0	0	17	
18	53 270	55	30	13	1	0	0	18	
19	39 260	64	25	11	0	0	0	19	
20	44 290	60	23	0	1	0	0	20	
21	46 270	69	22	7	1	0	0	21	
22	51 290	73	23	4	0	0	0	22	
23	42 270	70	15	7	0	0	0	23	
24	43 270	76	17	7	0	0	0	24	
BY MONTH	55 220	70	21	0	1	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)		GUST (KNOTS)		HOUR		
		<20	20-30	30-40	40-50		50-60	>60
1	44 260	73	25	1	1	0	0	1
2	44 260	79	18	2	0	0	0	2
3	40 270	84	15	1	0	0	0	3
4	34 250	89	9	1	0	0	0	4
5	38 260	90	8	2	0	0	0	5
6	40 280	91	8	0	0	0	0	6
7	41 270	92	6	1	0	0	0	7
8	36 270	90	8	2	0	0	0	8
9	40 270	83	16	1	0	0	0	9
10	42 270	78	21	1	0	0	0	10
11	40 270	75	24	1	0	0	0	11
12	45 270	71	27	1	1	0	0	12
13	45 260	63	32	4	0	0	0	13
14	45 260	59	36	5	0	0	0	14
15	40 270	55	40	5	0	0	0	15
16	42 270	58	34	7	1	0	0	16
17	48 280	56	35	6	3	0	0	17
18	43 80	54	38	7	1	0	0	18
19	47 250	61	32	6	1	0	0	19
20	44 220	72	23	5	0	0	0	20
21	52 260	71	23	5	0	0	0	21
22	55 260	69	26	4	0	0	0	22
23	58 260	72	23	4	0	0	0	23
24	47 230	73	24	2	1	0	0	24
BY MONTH	58 260	73	23	3	1	0	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

JULY

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20		>20 <30		>30 <40		>40 <50		>50 <60		HOUR
1	31 180	91	2	1	0	0	0	0	0	0	0	1
2	30 210	93	6	1	0	0	0	0	0	0	0	2
3	30 160	97	2	0	0	0	0	0	0	0	0	3
4	34 150	96	3	1	0	0	0	0	0	0	0	4
5	25 270	98	2	0	0	0	0	0	0	0	0	5
6	24 280	100	0	0	0	0	0	0	0	0	0	6
7	30 160	99	1	0	0	0	0	0	0	0	0	7
8	22 190	99	1	0	0	0	0	0	0	0	0	8
9	22 180	99	1	0	0	0	0	0	0	0	0	9
10	28 130	99	1	0	0	0	0	0	0	0	0	10
11	25 110	95	5	0	0	0	0	0	0	0	0	11
12	25 140	94	6	0	0	0	0	0	0	0	0	12
13	28 20	92	8	0	0	0	0	0	0	0	0	13
14	37 90	86	13	1	0	0	0	0	0	0	0	14
15	31 100	86	14	0	0	0	0	0	0	0	0	15
16	35 240	60	19	2	0	0	0	0	0	0	0	16
17	31 120	80	20	0	0	0	0	0	0	0	0	17
18	34 80	84	15	1	0	0	0	0	0	0	0	18
19	33 290	87	12	1	0	0	0	0	0	0	0	19
20	40 290	86	13	1	0	0	0	0	0	0	0	20
21	39 170	89	9	1	0	0	0	0	0	0	0	21
22	29 170	86	14	0	0	0	0	0	0	0	0	22
23	37 120	87	11	1	0	0	0	0	0	0	0	23
24	27 170	91	9	0	0	0	0	0	0	0	0	24
BY MONTH	40 290	91	8	1	0	0	0	0	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	GUST (KNOTS)				>60	HOUR
			≥20 <30	≥30 <40	≥40 <50	≥50 <60		
1	29 170	97	3	0	0	0	1	
2	26 260	98	2	0	0	0	2	
3	29 280	99	1	0	0	0	3	
4	29 270	99	1	0	0	0	4	
5	29 290	99	1	0	0	0	5	
6	26 290	100	0	0	0	0	6	
7	28 290	99	1	0	0	0	7	
8	21 310	100	0	0	0	0	8	
9	19 110	100	0	0	0	0	9	
10	24 290	99	1	0	0	0	10	
11	24 110	98	2	0	0	0	11	
12	27 170	94	6	0	0	0	12	
13	30 340	91	8	0	0	0	13	
14	33 230	93	7	0	0	0	14	
15	27 130	88	12	0	0	0	15	
16	38 50	87	12	1	0	0	16	
17	33 120	90	9	1	0	0	17	
18	32 250	89	11	0	0	0	18	
19	39 350	90	8	2	0	0	19	
20	45 140	90	7	2	1	0	20	
21	38 180	89	10	1	0	0	21	
22	52 20	89	9	1	0	0	22	
23	37 30	92	7	1	0	0	23	
24	33 160	96	3	0	0	0	24	
BY MONTH	52 20	94	5	0	0	0	0	

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	>20 <30		GUST (KNOTS)			>60	HOUR
			>20 <30	>30 <40	>40 <50	>50 <60	>60		
1	45 260	94	4	1	0	0	0	1	
2	40 250	95	5	0	0	0	0	2	
3	35 260	97	3	0	0	0	0	3	
4	32 260	96	3	0	0	0	0	4	
5	27 270	98	2	0	0	0	0	5	
6	25 270	98	2	0	0	0	0	6	
7	26 250	98	2	0	0	0	0	7	
8	28 320	98	2	0	0	0	0	8	
9	29 260	98	2	0	0	0	0	9	
10	28 240	95	5	0	0	0	0	10	
11	30 250	93	6	0	0	0	0	11	
12	31 260	91	8	0	0	0	0	12	
13	36 220	89	9	1	0	0	0	13	
14	34 240	87	13	1	0	0	0	14	
15	39 200	86	13	1	0	0	0	15	
16	43 220	87	12	0	0	0	0	16	
17	39 270	86	10	3	0	0	0	17	
18	34 280	91	6	3	0	0	0	18	
19	36 270	90	7	3	0	0	0	19	
20	37 250	91	7	2	0	0	0	20	
21	33 270	92	7	1	0	0	0	21	
22	33 250	91	7	2	0	0	0	22	
23	37 250	92	7	1	0	0	0	23	
24	36 250	91	7	2	0	0	0	24	
BY MONTH	45 260	93	6	1	0	0	0		

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEH, MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	OCTOBER				GUST (KNOTS)				HOUR
		<20	>20 <30	>30 <40	>40 <50	>50 <60	>60			
1	45 190	86	8	5	1	0	0	0	1	
2	60 270	88	7	3	0	0	0	0	2	
3	50 270	89	6	4	0	0	0	0	3	
4	50 270	88	7	3	1	0	0	0	4	
5	51 270	90	7	2	0	0	0	0	5	
6	51 260	93	5	1	1	0	0	0	6	
7	51 260	94	4	1	0	0	0	0	7	
8	49 170	91	7	1	1	0	0	0	8	
9	41 160	90	7	2	0	0	0	0	9	
10	36 260	85	11	4	0	0	0	0	10	
11	37 280	82	13	5	0	0	0	0	11	
12	43 160	81	13	5	0	0	0	0	12	
13	41 250	79	15	6	0	0	0	0	13	
14	49 180	76	20	3	1	0	0	0	14	
15	49 260	76	16	6	1	0	0	0	15	
16	44 250	81	12	5	2	0	0	0	16	
17	45 240	82	10	7	1	0	0	0	17	
18	45 230	83	9	5	2	0	0	0	18	
19	50 190	85	10	3	1	0	0	0	19	
20	47 270	83	9	7	1	0	0	0	20	
21	50 260	82	8	6	2	0	0	0	21	
22	52 230	83	9	6	1	0	0	0	22	
23	45 260	81	11	6	2	0	0	0	23	
24	45 270	86	6	6	2	0	0	0	24	
BY MONTH	60 270	85	10	4	1	0	0	0		

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR  
 'A' STATION, WHITE SANDS MISSILE RANGE, NEW MEXICO  
 1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	GUST (KNOTS)				GUST >260	HOUR
		<20	220 <30	230 <40	240 <50		
1	49 270	83	8	8	1	0	1
2	50 210	84	9	6	1	0	2
3	42 240	84	8	7	1	0	3
4	55 250	84	7	7	1	1	4
5	44 230	86	6	7	1	0	5
6	54 150	86	6	5	1	0	6
7	50 180	86	6	5	1	0	7
8	54 270	88	6	3	2	1	8
9	48 260	87	7	5	1	0	9
10	47 260	84	10	3	3	0	10
11	46 260	83	10	4	2	0	11
12	45 240	78	14	6	2	0	12
13	49 280	74	19	5	2	0	13
14	49 270	78	11	9	2	0	14
15	42 290	73	18	8	1	0	15
16	48 260	77	14	8	1	0	16
17	44 260	79	14	5	1	0	17
18	43 260	80	13	6	1	0	18
19	49 270	82	10	7	1	0	19
20	51 270	82	11	4	2	0	20
21	54 260	84	9	5	1	0	21
22	54 260	84	10	4	0	1	22
23	50 240	84	9	5	1	1	23
24	48 240	82	9	6	2	0	24
BY MONTH	56 260	82	10	6	2	0	0

TABLE IVa. (CONT)

PEAK GUST AND RELATIVE FREQUENCY DISTRIBUTION (IN PERCENT) OF GUSTY SURFACE WINDS BY MONTH AND BY HOUR

'A' STATION, WHITE SANDS MISSILE RANGE, NEK MEXICO  
1967-1973

HOUR	PEAK GUST SPEED DIR (KTS) (DEG)	<20	>20 <30		>30 <40		>40 <50		>50 <60	HOUR
			>20	<30	>30	<40	>40	<50		
1	61 240	74	14	7	4	0	0	0	1	
2	79 260	77	8	11	3	1	0	0	2	
3	65 250	79	9	8	3	0	1	0	3	
4	60 210	80	8	8	2	1	0	0	4	
5	60 230	81	9	5	4	1	0	0	5	
6	71 220	80	9	5	4	1	0	0	6	
7	62 260	81	8	6	4	0	0	0	7	
8	49 250	79	9	9	3	0	0	0	8	
9	64 270	80	9	7	3	0	0	0	9	
10	59 270	80	8	6	5	1	0	0	10	
11	54 250	77	10	7	5	1	0	0	11	
12	57 270	77	10	5	6	1	0	0	12	
13	52 270	74	12	7	6	1	0	0	13	
14	51 270	71	14	9	5	1	0	0	14	
15	59 260	71	11	13	5	1	0	0	15	
16	52 250	69	15	13	1	1	0	0	16	
17	51 270	73	15	9	3	0	0	0	17	
18	49 180	74	14	9	3	0	0	0	18	
19	47 190	73	14	9	4	0	0	0	19	
20	67 200	70	13	12	3	1	0	0	20	
21	60 250	71	12	11	3	2	0	0	21	
22	54 250	73	14	6	6	1	0	0	22	
23	62 250	76	8	11	4	1	0	0	23	
24	57 260	75	12	9	3	1	0	0	24	
BY MONTH	79 260	76	11	8	4	1	0	0		

TABLE IVb.

Maximum Wind Gusts in Knots, 1950 - 1973 "A" Station, White Sands Missile Range

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1950	31SW	27NE	35SW	26MSW	35W	26W	26NW	22W	22SSE	17SE	35W	30W	35SW/W*
1951	56SW	65MSW	74W	56SW	48W	45SSW	43SSE	45S	35S	43WNW	56W	82SW	82SW
1952	56W	27NNW	26NW	31W	27S	25SSE	30SSW	43NNW	22W	17SE	48W	49S	56W
1953	56NW	68SW	54SW	56W	55SW	---	37NW	26NW	26SSW	22SE	43NW	65N	68SW
1954	35W	62MNW	65W	40MNW	48W	21W	44E	40NE	32SSE	45W	53W	47MNW	65W
1955	46MNW	40W	64W	66W	48W	49W	36N	32SE	32S	35W	56W	46WSW	66W
1956	64S	64MNW	56W	60W	64W	43W	36SW	32SSW	35SSE	46WSW	47MNW	52W	64MNW/W*
1957	65MSW	40NW	54MNW	66WSW	59WSW	53WNW	33S	51SSE	37NNW	52WNW	38WSW	50WSW	66WSW
1958	61MSW	63SW	60W	66MSW	43W	37S	36WSW	33NW	30NE	26MNW	56SW	46WSW	66MSW
1959	70W	56W	52W	44W	43W	46SSE	34ENE	30S	39ESE	41SW	45WSW	70W	70W
1960	57MNW	68MNW	45W	52W	40W	34S	32E	28S	35WSW	41W	54W	56W	68MNW
1961	35W	52W	64MSW	59W	74MSW	40W	34SSE	27SSE	40W	60SW	56MNW	56S	74WSW
1962	53W	53W	62SSE	52W	54SSW	60S	44SSW	36W	29W	27W	44W	45WSW	62SSE
1963	60W	42MSW	61E	60W	38W	40MSW	43ESE	40S	32S	32W	52W	49MNW	51E
1964	55WSW	48MSW	67W	55W	62W	52SW	37S	50S	28MSW	30SE	53WSW	63W	67W
1965	63SW	58SW	56W	47W	56W	58SSW	57E	40WSW	48WSW	58SSE	61W	59W	63SW
1966	61W	49MSW	61SW	59W	45MNW	41S	33WSW	38MNW	30NNE	46W	49SSW	52SW	61W/SW*
1967	62MSW	56SW/NW*	73MSW	63W	47W	41W	33MNW	40ENE	30ESE/W*	60W	54W	65WSW	73WSW
1968	43W	49W	43MNW	57MSW	43W	43E/SSE*	36NNE	44WSW	34W	45W	51WSW	67SSW	67SSW
1969	63W	49W	60S	47W	49W	47MSW	39ENE	33ESE/SW*	28SSE	49W	47WSW/W*	50W	63W
1970	45W	42MSW	59NNW	61W	45W	58W	29W	29ESE/SE/N*	33SSE	49SW	53WSW	56SW	61W
1971	49WSW	71W	62MNW	60W	55SW	33W	30WSW	52NNE	39W	52SW	50S	53W	71W
1972	62W	48W	63NW	49W	39S	47MSW	38NNE	38NE	29W	37WSW	55WSW	79W	79W
1973	50MNW	58W	54MNW	78MNW	53SW	36W	40MNW	39N	45W	45W	56SW	62W	78MNW
Extremes	70W	71W	74W	78MNW	74MSW	60S	57E	52NNE	48MSW	60W/SW*	61W	82SW	82SW
Year	1959	1971	1951	1973	1961	1962	1965	1971	1965	1961 1967	1965	1951	1951

\* More than one occurrence.

**SECTION II**

**SKY COVER VS SURFACE WIND SPEED**

54a

Table V. Relative Frequency Distribution of Sky Cover Vs  
Surface Wind Speed by Months and by Hours ----- 55

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TABLE V

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	MONTH OF JANUARY																								BY
	WIND 0-5 KNOTS																								
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	29	
32	33	36	34	37	38	35	29	30	28	26	25	26	22	19	20	19	23	26	28	29	31	30	32	29	
	SKY COVER CLEAR																								
	SKY COVER 1-5/10																								
	12	11	12	13	14	17	20	16	17	15	14	13	13	13	11	11	14	14	12	12	11	12	12	13	
	SKY COVER 6-9/10																								
	6	9	10	8	7	10	12	13	13	12	11	10	10	9	11	11	13	13	12	11	10	10	9	10	
	SKY COVER ABOVE 9/10																								
	12	11	12	11	14	14	12	15	18	17	15	16	17	14	13	14	13	14	11	11	11	10	11	13	
	TOTAL OBSERVATIONS																								
	661	687	687	687	688	690	692	692	693	692	693	689	690	692	691	690	679	670	668	670	669	669	670	669	16416

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
13 14 11 13 11 10 8 5 6 5 6 7 7 9 12 11 11 8 6 9 10 11 13 12	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
SKY COVER 1-5/10																									
5 5 6 5 4 4 5 5 4 4 6 7 7 9 8 8 6 6 7 7 7 7 7 7 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
SKY COVER 6-9/10																									
3 3 2 3 2 2 3 4 3 5 6 6 8 8 9 10 11 7 5 5 6 5 6 5 4 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
SKY COVER ABOVE 9/10																									
4 4 3 4 3 3 3 4 4 5 4 6 6 5 6 7 5 6 7 6 5 3 4 4 4 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

TOTAL OBSERVATIONS

601 487 687 687 680 690 492 692 693 693 692 693 689 690 692 691 690 679 670 668 670 669 669 670 669 670 16416

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR	0	1	2	2	1	2	1	2	1	1	1	2	1	2	1	2	2	2	2	3	3	3	2	2	2	3
SKY COVER 1-5/10	3	3	2	3	1	2	2	1	1	1	2	2	2	2	2	2	2	3	3	3	3	4	4	2	2	2
SKY COVER 6-9/10	1	1	1	1	3	2	2	1	2	2	2	2	2	3	3	3	3	2	3	2	2	2	1	2	2	2
SKY COVER ABOVE 9/10	1	1	1	0	1	1	1	1	1	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1	2	1

TOTAL OBSERVATIONS

601 607 607 607 607 608 690 692 692 692 693 692 693 689 690 692 691 690 679 670 668 670 669 669 670 670 16416

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY  
 WIND ABOVE 25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0
SKY COVER 1-5/10	1	1	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0
SKY COVER 6-9/10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0

TOTAL OBSERVATIONS

681 687 687 687 687 688 690 692 692 693 693 692 693 689 690 692 691 690 679 670 668 670 669 669 670 16416

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	30	32	35	37	38	31	28	30	26	25	22	22	22	16	15	15	15	20	24	25	29	29	31	32	27
SKY COVER 1-5/10	11	9	10	11	12	11	16	16	12	13	11	12	10	10	9	9	9	9	11	11	12	10	9	10	11
SKY COVER 6-9/10	7	8	7	7	5	6	8	11	11	11	10	11	11	9	8	8	9	8	10	9	6	8	7	8	8
SKY COVER ABOVE 9/10	8	9	9	10	10	9	11	14	16	16	16	13	12	11	10	10	8	9	10	9	8	7	8	10	10

TOTAL OBSERVATIONS

630 630 630 631 632 629 630 630 630 630 630 633 632 632 633 632 622 619 613 613 614 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 6-14 KNOTS

HOUR	BY																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10	17	17	15	12	12	8	7	7	7	10	10	10	10	14	16	14	13	11	8	11	13	14	15	14
SKY COVER 6-9/10	7	6	5	6	6	5	7	4	6	5	8	8	10	9	9	9	9	10	8	8	8	8	10	8
SKY COVER ABOVE 9/10	4	3	3	4	2	5	6	5	4	5	6	6	7	8	9	11	10	10	8	7	6	5	5	6
TOTAL OBSERVATIONS	5	5	4	4	5	6	5	5	5	5	6	6	7	9	10	10	12	8	8	6	6	5	6	6

630 630 630 631 632 629 630 630 630 630 630 630 633 632 632 633 632 622 614 613 613 614 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	
	4	4	3	3	4	3	2	2	2	2	3	3	1	2	2	2	2	3	2	3	4	4	4	3	4	3
SKY COVER 1-5/10	4	3	5	3	3	3	3	3	3	5	3	3	4	4	5	4	4	4	4	3	3	3	3	3	4	4
SKY COVER 6-9/10	2	2	2	1	2	1	1	1	2	2	2	3	3	3	5	4	5	4	3	3	3	3	2	1	2	1
SKY COVER ABOVE 9/10	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	2	3	2	1	1	2	1	1	1	2

TOTAL OBSERVATIONS

630 630 630 630 631 632 629 630 630 630 630 630 633 632 632 633 632 622 619 613 613 614 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY  
 WIND ABOVE 25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SKY COVER 1-5/10	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0

62

630 630 630 631 632 629 630 630 630 630 630 630 630 633 632 632 633 632 614 613 613 614 614 612 15026

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY	
24	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	19	
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
SKY COVER 1-5/10	9	7	7	9	9	12	15	14	11	12	11	8	8	8	6	7	6	7	8	8	9	8	9	8	10	9
SKY COVER 6-9/10	6	5	6	7	8	7	11	12	10	9	9	9	8	8	5	5	5	6	7	9	7	8	6	6	8	
SKY COVER ABOVE 9/10	6	7	7	8	8	9	11	13	12	11	9	7	6	6	6	6	6	6	8	8	7	6	7	7	8	

TOTAL OBSERVATIONS

695 697 698 696 696 694 695 694 694 694 694 693 694 694 694 694 694 694 696 678 667 668 670 671 669 669 16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
19 10	19	16	10	15	9	9	11	13	13	14	17	14	14	19	15	15	15	15	12	13	16	18	19	18	15
SKY COVER 1-8/10																									
0 9	7	7	7	7	9	7	8	10	12	14	13	13	14	13	14	11	11	11	11	11	11	10	9	8	10
SKY COVER 6-9/10																									
5 6	6	5	6	5	5	5	6	6	7	8	10	10	13	12	12	12	12	14	10	8	7	7	6	6	6
SKY COVER ABOVE 9/10																									
5 6	4	5	4	4	5	6	7	6	7	8	11	12	13	13	13	10	9	7	7	7	6	5	6	8	

TOTAL OBSERVATIONS

695 697 698 696 696 694 694 695 694 694 694 693 694 694 694 694 694 696 678 667 668 670 671 669 669 16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR																										
SKY COVER 1-5/10	6	7	6	6	5	4	3	2	3	4	3	3	4	3	3	3	5	4	4	4	4	6	0	7	0	5
SKY COVER 6-9/10	5	4	5	4	4	5	4	4	4	5	4	4	4	4	5	4	4	5	5	5	5	4	5	5	4	4
SKY COVER ABOVE 9/10	2	2	3	2	2	3	2	2	2	3	3	3	5	4	5	6	6	4	4	4	3	3	3	2	3	3
TOTAL OBSERVATIONS	2	1	2	2	2	2	2	2	1	1	2	3	3	4	3	3	4	5	3	3	2	2	2	2	1	2

695 697 695 696 696 694 694 695 694 694 694 694 693 696 694 694 694 694 696 670 667 668 670 671 669 669 16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	By MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

695 697 698 696 696 694 695 694 694 694 694 693 696 694 694 694 694 696 678 667 660 670 671 669 669 16505

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23
SKY COVER 1-5/10	24	26	29	31	31	29	29	27	22	21	15	14	11	8	6	6	5	7	10	15	17	17	18	21	18
SKY COVER 6-9/10	9	8	8	8	11	14	13	12	10	8	9	7	7	6	6	6	5	4	6	8	8	7	7	6	8
SKY COVER ABOVE 9/10	4	3	6	5	5	8	11	11	10	9	8	6	6	4	4	3	4	6	7	7	6	5	5	4	6

TOTAL OBSERVATIONS

670 671 671 670 672 671 672 671 671 670 670 670 672 671 670 671 670 671 636 629 628 629 628 628 628 628 15810

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	MONTH OF APRIL																								
	WIND 6-14 KNOTS																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23
SKY COVER 1-5/10	22	23	21	20	18	11	13	17	17	19	19	20	19	20	19	20	19	19	16	15	20	21	25	23	19
SKY COVER 6-9/10	8	8	8	9	7	8	6	7	9	10	12	14	15	16	16	16	16	15	14	10	10	13	10	12	11
SKY COVER ABOVE 9/10	5	4	3	5	6	7	8	6	5	7	9	10	11	12	13	12	12	11	10	10	9	5	5	4	8
TOTAL OBSERVATIONS	4	5	4	4	3	3	4	5	6	7	7	9	8	9	11	12	10	11	8	7	5	4	4	5	6
	670	671	670	671	670	672	671	671	672	671	671	670	670	672	671	670	671	636	629	620	629	628	628	628	15010

TABLE V (CONT.)

JOURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
11	10	9	7	7	5	4	4	4	4	4	5	6	5	5	6	5	7	6	7	7	9	10	11	10	7
SKY COVER 1-5/10																									
4	4	4	3	3	4	4	4	4	4	4	5	5	5	5	5	6	7	7	6	6	6	6	5	5	5
SKY COVER 6-9/10																									
1	2	2	2	2	2	2	2	2	2	2	2	3	4	5	3	5	5	4	4	4	2	3	3	2	3
SKY COVER ABOVE 9/10																									
1	1	2	1	1	1	0	1	1	1	1	1	2	2	3	3	3	3	3	4	2	2	3	3	2	2

TOTAL OBSERVATIONS

670 671 671 670 672 671 672 671 671 670 670 672 671 670 671 670 671 636 629 620 629 620 620 620 620 15810

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	BY
SKY COVER CLEAR	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	1	0	1	0	0
SKY COVER 1-5/10	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	1	0	1	0	1	0	0
SKY COVER 6-9/10	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	1	1	0	1	0	1	1	0	0	1
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0

670 671 671 670 671 670 672 671 671 672 671 671 670 670 672 671 670 671 636 629 620 629 628 628 628 628 15810

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 WIND 0-5 KNOTS

HOUR	BY MONTH																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10	23	26	31	32	31	27	30	29	24	19	16	12	9	6	8	6	5	6	8	12	18	16	20	21
SKY COVER 6-9/10	10	9	10	12	18	14	14	14	14	11	10	9	10	7	6	7	7	8	11	13	10	10	7	9
SKY COVER ABOVE 9/10	4	5	4	6	6	10	13	12	10	10	8	6	5	5	6	5	7	6	6	8	8	6	5	7
TOTAL OBSERVATIONS	3	2	4	3	4	4	7	8	7	7	4	4	5	2	3	3	2	3	4	3	4	4	3	4

682 682 684 684 697 697 695 695 696 696 694 694 695 695 695 695 694 695 661 654 654 640 638 638 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	MONTH OF MAY																							BY MONTH
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10	29	27	25	22	15	14	15	19	24	25	25	25	23	18	19	19	19	18	10	16	19	25	28	28
SKY COVER 6-9/10	9	9	7	6	10	10	6	8	8	12	14	16	17	22	22	22	21	19	18	17	16	12	11	10
SKY COVER ABOVE 9/10	5	5	6	4	4	6	5	4	6	6	8	13	14	16	16	15	16	15	13	9	7	8	7	6
TOTAL OBSERVATIONS	4	3	3	4	3	4	3	3	4	3	5	6	6	9	9	9	10	9	9	9	7	5	5	6

682 682 684 684 697 697 695 695 696 694 696 695 695 695 695 694 695 661 654 654 640 638 639 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
SKY COVER 1-5/10	7	6	6	4	3	2	2	3	2	2	3	4	4	4	5	4	4	6	6	5	7	7	7	8	5
SKY COVER 6-9/10	2	4	2	2	2	2	2	2	3	3	4	3	3	2	4	4	3	3	3	3	3	3	3	2	3
SKY COVER ABOVE 9/10	2	1	1	1	1	1	1	1	2	2	2	1	2	2	2	3	3	4	3	2	1	1	2	1	2
TOTAL OBSERVATIONS	1	1	0	0	1	1	1	2	1	1	1	1	1	1	1	2	2	2	2	1	2	1	1	2	1

61 682 684 684 697 697 695 495 696 694 696 695 695 695 695 695 694 695 661 654 654 640 638 639 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
SKY COVER 1-5/10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

682 682 684 684 697 697 695 695 696 696 694 694 696 695 695 695 694 695 661 654 654 640 638 638 638 16295

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
SKY COVER 1-5/10	19	23	28	32	30	25	31	31	30	25	22	19	13	9	5	6	6	6	7	13	15	15	14	16	18
SKY COVER 6-9/10	10	13	13	14	21	26	26	21	16	14	12	13	14	13	13	13	10	10	11	11	12	11	11	9	14
SKY COVER ABOVE 9/10	6	5	5	7	9	11	10	9	9	7	7	6	6	6	5	6	8	6	8	8	7	6	5	5	7
TOTAL OBSERVATIONS	6	5	5	5	4	5	5	6	5	4	3	3	2	2	1	2	3	3	3	3	4	5	6	6	4

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
31	28	26	25	19	13	11	16	19	24	26	26	25	21	20	18	18	20	20	17	18	20	21	22	22	23
SKY COVER 1-5/10																									
10	9	9	9	9	11	7	9	11	13	16	18	22	28	28	27	25	21	21	18	17	14	13	12	12	15
SKY COVER 6-9/10																									
5	4	4	3	4	5	3	3	5	6	7	8	9	11	17	17	18	17	16	14	11	7	6	4	4	9
SKY COVER ABOVE 9/10																									
2	2	2	2	1	2	2	2	2	2	2	4	3	5	6	6	5	6	6	6	7	8	7	6	4	4

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 IND 15-25 KNOTS

HOUR	BY MONTH																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10	5	6	4	2	1	1	1	1	2	1	2	2	2	2	2	3	2	3	4	3	3	4	7	7
SKY COVER 6-9/10	3	2	1	1	1	1	1	1	1	2	1	1	1	1	1	2	3	3	2	1	2	2	2	2
SKY COVER ABOVE 9/10	2	1	1	0	0	0	0	0	0	1	1	1	1	1	1	3	2	4	4	3	2	2	1	2
TOTAL OBSERVATIONS	1	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	3	1	2	1	1	1

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE  
 TID ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 649 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603 15599

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND U-S KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	19	19	24	27	18	18	25	24	22	17	13	8	4	3	2	2	2	2	2	4	6	8	10	13	13
SKY COVER 1-5/10	13	17	21	25	32	36	32	28	29	27	27	27	29	25	21	18	15	16	12	14	18	19	14	13	22
SKY COVER 6-9/10	18	14	16	15	15	22	22	21	18	14	12	13	14	13	17	13	14	16	18	18	17	13	16	15	16
SKY COVER ABOVE 9/10	10	12	11	11	12	12	15	15	10	9	8	7	4	3	3	4	4	5	6	8	11	10	10	11	9

TOTAL OBSERVATIONS

689	684	664	695	694	692	692	692	693	693	693	693	696	695	693	693	695	680	652	650	640	642	642	641	16274
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TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
12	13	8	6	3	1	2	1	3	7	8	6	3	2	3	3	2	3	4	4	4	5	9	12	12	6
8	SKY COVER 1-5/10																								
12	10	7	5	4	3	3	3	7	10	15	18	23	27	23	24	24	22	20	21	17	15	15	17	11	14
8	SKY COVER 6-9/10																								
6	7	6	3	2	4	4	3	5	6	9	10	12	20	23	28	28	29	26	24	23	17	12	10	12	13
8	SKY COVER ABOVE 9/10																								
6	7	5	4	3	4	3	4	3	4	3	3	3	3	4	4	4	8	7	8	9	9	10	9	8	5

TOTAL OBSERVATIONS

659 684 684 684 695 694 692 692 693 693 693 693 696 695 695 693 693 695 680 652 650 640 642 642 641 1627

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	0
SKY COVER 1-5/10	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
SKY COVER 6-9/10	1	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	3	3	1	1	1	1	1	1	0
SKY COVER ABOVE 9/10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	

TOTAL OBSERVATIONS

659 684 684 684 695 694 692 692 693 693 693 693 696 695 693 693 695 680 652 650 640 642 642 641 16274

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

659 684 684 684 695 694 692 692 692 693 693 693 696 695 693 693 695 680 652 650 640 642 642 641 16274



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
 WIND 6-14 KNOTS

HOUR	BY MONTH																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER 1-5/10	11	9	8	6	6	5	3	3	5	5	9	7	5	4	3	3	2	4	5	4	6	10	11	13
SKY COVER 6-9/10	9	6	6	3	4	4	3	2	4	10	12	16	23	26	25	21	23	20	20	13	11	12	12	11
SKY COVER ABOVE 9/10	6	6	5	4	2	3	3	2	3	5	7	8	11	17	22	27	26	25	21	14	12	8	8	10
TOTAL OBSERVATIONS	5	6	4	4	2	2	2	2	2	3	3	3	3	3	5	7	6	7	8	10	9	9	7	6

TOTAL OBSERVATIONS

687 697 696 697 695 693 496 696 696 695 697 696 696 697 695 696 696 696 679 666 666 665 666 666 664 16494



TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

687 697 697 696 697 695 693 696 696 696 696 695 697 696 697 695 696 696 679 666 666 665 666 666 664 16494

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 0-5 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH		
SKY COVER CLEAR																										
36	38	42	44	46	41	36	42	42	39	35	30	21	13	10	10	11	15	23	28	31	28	31	22	31	32	30
87																										
SKY COVER 1-5/10																										
14	15	16	16	16	23	25	22	20	19	16	18	20	20	20	19	19	18	20	18	14	15	17	15	17	15	16
SKY COVER 6-9/10																										
10	10	10	9	10	10	15	14	13	10	9	8	7	10	10	12	9	11	11	10	9	7	10	8	10	10	
SKY COVER ABOVE 9/10																										
7	7	8	9	10	10	10	10	9	8	7	6	6	5	4	3	4	5	5	8	8	9	7	8	7	7	

TOTAL OBSERVATIONS

672 670 668 671 671 669 667 667 667 668 668 670 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR																										
17	16	13	11	11	10	7	4	7	4	7	10	13	15	18	17	17	16	14	15	11	13	17	20	19	19	14
88	SKY COVER	1-5/10																								
7	7	4	4	3	3	4	3	4	3	4	7	11	12	15	21	22	22	22	18	13	8	9	9	6	7	10
	SKY COVER	6-9/10																								
4	4	3	3	2	2	2	2	3	3	4	4	7	8	8	12	13	15	13	10	7	6	5	4	5	6	
	SKY COVER	ABOVE 9/10																								
3	3	2	3	2	1	1	1	1	2	3	3	3	4	3	4	4	3	3	3	5	4	3	3	3	3	

TOTAL OBSERVATIONS

672 670 668 671 671 669 667 667 667 667 667 667 667 668 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND 15-25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	2	2	2	1
SKY COVER 1-5/10	2	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	1	1	0	1	2	2	1
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	1	1	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0

TOTAL OBSERVATIONS

672 670 668 671 671 671 669 667 667 667 667 668 668 670 671 670 668 670 660 651 653 651 650 552 653 15948

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

672 670 668 671 671 671 669 667 667 667 668 668 670 671 670 668 670 660 651 653 651 650 652 653 15948

TABLE V (CONT.)

JOURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	43	46	49	50	52	48	41	43	40	39	37	35	30	28	23	23	26	33	40	42	40	42	41	44	39
SKY COVER 1-5/10	10	10	12	12	14	19	19	13	16	15	13	12	12	14	11	12	14	15	12	13	11	11	9	10	13
SKY COVER 6-9/10	6	6	6	5	5	7	12	13	13	10	9	9	8	9	9	7	7	9	10	8	6	6	7	6	8
SKY COVER ABOVE 9/10	5	6	5	6	6	7	8	7	8	8	6	6	5	4	5	5	5	5	6	5	5	4	5	6	6

TOTAL OBSERVATIONS

703 703 704 704 704 703 707 705 716 706 704 707 704 702 701 704 701 662 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	16
SKY COVER 1-5/10	20	20	16	17	14	14	10	7	9	12	15	15	17	16	20	21	19	14	12	15	18	18	20	18	16
SKY COVER 6-9/10	5	4	4	3	4	5	6	3	6	7	9	11	12	13	14	13	13	7	6	5	6	6	6	5	7
SKY COVER ABOVE 9/10	3	3	2	2	2	3	2	3	2	4	5	6	9	7	9	10	8	8	5	3	5	4	3	2	5
TOTAL OBSERVATIONS	3	3	3	3	2	2	2	3	3	3	3	3	3	5	4	4	4	5	4	5	4	5	3	3	3

703 703 704 704 704 703 707 705 706 706 706 704 707 704 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	1	1	1	1	0	1	1	1	2	2	1	1	1	2	1	1	2	2	3	3	3	3	3	2
SKY COVER 1-5/10	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	1	1	0	0	0	0	1	1
SKY COVER 6-9/10	1	1	0	0	0	0	1	0	0	0	1	1	1	2	1	1	1	1	1	1	1	0	1	0	1
SKY COVER ABOVE 9/10	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	1	1	0

TOTAL OBSERVATIONS

703 703 704 704 704 703 707 705 706 706 704 707 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL OBSERVATIONS

703 703 704 704 703 707 705 706 706 704 707 704 704 702 701 704 701 682 678 679 678 680 678 678 16721

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND 0-5 KNOTS

BY	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	BY
MONTH	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	MONTH
SKY COVER CLEAR																									
SKY COVER 1-5/10	32	36	35	30	32	29	28	24	21	23	23	25	28	29	31	34	33	35	33	41	43	43	39	40	38
SKY COVER 6-9/10	12	11	10	13	13	14	15	13	11	10	10	12	12	12	14	15	14	18	15	15	13	11	12	11	11
SKY COVER ABOVE 9/10	9	6	7	7	8	8	12	8	9	10	11	11	11	12	11	14	14	10	14	14	10	8	9	6	6
TOTAL OBSERVATIONS	158	143	144	144	145	144	160	163	164	163	164	164	167	166	166	164	166	166	166	167	167	167	167	167	665

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - AMITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
16	15	17	12	14	12	10	7	8	11	14	13	13	15	15	15	16	15	9	13	15	17	16	17	17	14
SKY COVER 1-5/10																									
6	4	5	5	5	4	5	7	4	4	6	7	9	11	11	10	8	8	7	8	7	6	8	7	7	7
SKY COVER 6-9/10																									
3	3	3	2	2	3	4	4	3	4	4	5	6	5	8	9	7	5	5	4	4	4	3	4	3	4
SKY COVER ABOVE 9/10																									
3	3	3	3	4	3	4	3	4	5	5	4	7	6	5	6	6	5	4	4	3	5	5	4	4	4

TOTAL OBSERVATIONS

665 667 667 666 667 670 666 666 664 666 666 667 664 664 663 664 663 660 644 645 644 644 644 643 648 15843

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23	
SKY COVER 1-5/10	4	3	3	3	2	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	3	2	2	2	3	2
SKY COVER 6-9/10	2	2	3	2	2	2	1	1	1	2	2	3	3	3	2	3	3	3	2	3	2	1	2	2	2	2
SKY COVER ABOVE 9/10	2	1	0	1	1	1	1	2	1	1	2	1	2	2	2	2	2	2	2	2	1	1	1	1	1	

TOTAL OBSERVATIONS

665 667 666 667 670 666 666 664 666 666 666 667 664 664 663 664 663 664 660 644 644 645 644 644 643 648 1584

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER  
 WIND ABOVE 25 KNOTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SKY COVER 1-5/10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
SKY COVER 6-9/10	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
SKY COVER ABOVE 9/10	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OBSERVATIONS	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

665 667 667 666 670 666 666 664 666 666 667 664 664 664 663 664 664 660 644 645 644 644 643 648 15843

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 0-5 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH	
SKY COVER CLEAR																										
38	37	41	42	43	43	39	31	31	31	29	27	27	23	22	20	21	24	30	31	32	33	35	36	37	32	
99																										
SKY COVER 1-5/10																										
9	13	12	10	9	10	15	18	15	13	13	14	13	13	11	9	11	10	12	11	12	12	10	10	13	12	
SKY COVER 6-9/10																										
9	8	8	7	8	8	8	12	13	12	12	12	12	12	14	13	12	13	14	9	8	8	7	7	7	10	
SKY COVER ABOVE 9/10																										
9	9	9	10	11	10	11	12	16	16	16	17	14	14	13	14	13	13	12	11	9	8	9	9	10	12	

TOTAL OBSERVATIONS

666 668 669 669 670 666 668 680 678 677 680 677 678 676 676 677 654 647 647 645 643 646 649 15979

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 6-14 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	BY MONTH
SKY COVER CLEAR																									
14 13 11 11 12 11 7 6 6 6 7 10 10 9 9 11 11 8 4 7 12 13 13 12 12 10																									
SKY COVER 1-5/10																									
4 4 4 4 4 4 5 5 4 4 4 4 6 9 8 8 8 9 6 9 7 7 7 7 6 5 6																									
SKY COVER 6-9/10																									
4 3 2 3 3 3 4 5 3 4 4 3 5 6 7 8 8 8 6 5 6 2 2 3 2 4																									
SKY COVER ABOVE 9/10																									
4 3 3 3 3 3 4 4 5 5 5 4 4 4 4 6 6 4 5 3 3 5 5 7 5 4																									

TOTAL OBSERVATIONS

666 668 669 669 670 668 668 680 678 677 680 677 678 676 678 677 654 647 647 645 643 646 649 1597

TABLE V (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER VS SURFACE WIND SPEED  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER  
 WIND 15-25 KNOTS

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	
SKY COVER CLEAR	0	1	2	2	2	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	2	2	3	2	2
SKY COVER 1-5/10	3	3	2	2	2	2	2	2	2	3	3	3	3	3	4	3	4	4	3	4	3	2	2	3	2	2
SKY COVER 6-9/10	3	3	3	2	2	2	2	2	2	3	3	3	3	3	4	3	4	4	3	4	3	2	2	2	2	3
SKY COVER ABOVE 9/10	2	2	1	2	1	1	1	2	2	2	2	2	2	3	3	3	3	4	3	2	2	2	2	1	2	2
TOTAL OBSERVATIONS	1	1	2	0	1	2	1	1	1	2	2	2	2	1	2	2	3	2	2	3	2	1	2	2	2	2

TOTAL OBSERVATIONS

666 668 669 669 670 668 668 680 678 677 660 677 678 676 678 677 654 647 647 647 647 647 647 647 647 649 15979



**SECTION III**

**SKY COVER, VISIBILITY, AND CEILINGS**

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TABLE VI  
 MONTHLY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER IN PERCENT  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH	SKY COVER			
	CLEAR	1-5/10	6-9/10	ABOVE 9/10
JAN	39	23	18	20
FEB	41	23	17	19
MAR	38	24	19	18
APR	44	25	18	14
MAY	45	27	18	11
JUN	43	31	17	9
JUL	19	37	29	15
AUG	23	36	28	13
SEP	44	29	17	10
OCT	57	21	13	9
NOV	49	22	15	15
DEC	44	21	17	18

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
47	49	49	49	50	49	43	35	35	33	33	33	32	33	32	31	31	31	31	33	39	42	44	45	46	
SKY COVER 1-5/10																									
22	20	21	21	19	21	25	27	22	22	22	23	24	23	23	25	22	22	24	23	23	23	22	24	23	
SKY COVER 6-9/10																									
13	13	14	13	13	12	15	18	18	18	21	20	19	19	22	22	25	26	22	22	20	20	18	16	15	
SKY COVER ABOVE 9/10																									
17	17	16	17	18	19	17	21	25	24	24	24	24	24	23	23	22	22	23	22	18	16	16	16	16	
TOTAL OBSERVATIONS	651	657	657	658	660	660	662	662	663	663	662	663	659	660	662	661	660	649	640	638	640	639	639	640	

TABLE VI (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	50	53	53	53	52	53	42	36	38	37	36	34	33	31	32	31	31	33	34	39	45	48	49	50
SKY COVER 1-5/10	22	19	20	20	21	20	27	24	21	24	22	24	23	25	23	22	23	23	23	24	23	22	23	22
SKY COVER 6-9/10	13	12	12	10	10	10	13	18	19	17	18	21	21	20	22	24	24	22	22	20	16	16	14	14
SKY COVER ABOVE 9/10	15	15	15	16	17	18	21	23	23	22	24	22	23	24	23	23	23	22	21	17	15	14	14	14

TOTAL OBSERVATIONS

602	602	602	603	604	601	602	602	602	602	602	602	603	602	602	603	602	603	602	592	585	584	584	585	585	583
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

TABLE VI (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
49 51 50	49	51	50	49	47	35	35	37	35	33	32	31	28	28	27	30	29	29	31	36	41	45	46	48	
SKY COVER 1-5/10																									
27 20 20 20	27	20	20	20	24	30	26	23	26	27	27	25	26	26	26	25	25	25	24	24	25	24	25	23	
SKY COVER 6-9/10																									
14 14 16 15 16 15	14	14	16	15	19	20	18	18	19	21	21	23	24	24	24	23	24	25	25	20	18	18	15	15	
SKY COVER ABOVE 9/10																									
14 16 14 15 14 14 16 19 21 20 21 20 21 22 23 22 23 23 21 20 19 16 14 14 15	14	16	14	15	14	14	16	19	21	20	21	20	21	22	23	22	23	21	20	19	16	14	14	15	
TOTAL OBSERVATIONS	664	666	664	665	665	662	663	662	662	662	661	665	663	663	663	663	645	647	636	638	639	640	638	639	

TABLE VI (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
SKY COVER CLEAR																										
57	58	59	57	48	43	44	43	44	43	42	39	38	35	34	32	31	32	32	33	38	45	48	53	53		
SKY COVER 1-5/10																										
21	22	21	21	22	27	24	23	24	24	27	27	28	28	28	28	28	28	26	26	25	25	26	22	24		
SKY COVER 6-9/10																										
11	9	10	12	13	17	22	20	20	18	19	20	20	23	23	21	22	21	21	23	22	18	14	13	10		
SKY COVER ABOVE 9/10																										
11	11	10	9	9	9	11	14	15	15	15	15	15	15	16	19	19	19	20	18	15	12	12	12	12		
TOTAL OBSERVATIONS																										
640	641	641	640	641	640	642	641	642	641	641	641	640	640	642	641	640	641	607	599	598	599	598	598	598	598	

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR																							
60	60	63	62	57	44	47	47	46	45	44	41	37	33	31	29	28	30	32	34	43	49	55	57
SKY COVER 1-5/10																							
21	22	20	20	25	30	22	24	25	25	28	28	31	32	32	33	32	31	32	33	29	25	21	22
SKY COVER 6-9/10																							
11	11	11	11	17	19	17	17	18	18	18	20	21	23	24	23	25	25	21	19	16	15	15	12
SKY COVER ABOVE 9/10																							
8	7	7	7	7	9	12	12	12	12	10	11	11	12	13	14	14	14	15	13	12	11	10	9

TOTAL OBSERVATIONS

682 682 684 684 697 697 695 695 696 694 696 695 695 695 695 694 695 661 654 654 640 638 639 638

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
55 57 58 59 50 39 43 47 51 51 50 47 40 32 28 27 27 27 27 31 33 37 45 50 54																									
SKY COVER 1-5/10																									
23 24 24 24 31 39 34 31 27 29 29 29 32 37 42 41 40 36 34 31 29 28 26 25 23																									
SKY COVER 6-9/10																									
13 10 10 10 13 16 15 13 14 14 13 15 15 16 18 24 26 28 27 27 25 21 15 12 11																									
SKY COVER ABOVE 9/10																									
9 8 7 7 6 7 7 8 7 8 7 6 7 7 7 8 8 9 11 11 13 14 13 12 12																									

TOTAL OBSERVATIONS

620 641 640 643 673 672 670 671 669 671 670 672 673 671 670 669 672 660 633 631 602 602 601 603

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	31	33	34	35	30	19	20	26	27	30	26	21	15	7	6	4	5	6	7	7	11	18	22	27
SKY COVER 1-5/10	26	27	28	31	38	40	35	32	36	37	42	46	52	52	45	43	38	37	34	32	34	35	32	25
SKY COVER 6-9/10	25	21	22	19	17	26	26	24	23	20	21	23	26	34	42	44	45	45	45	43	35	26	26	29
SKY COVER ABOVE 9/10	18	19	17	16	15	15	18	18	14	13	11	10	7	7	8	9	12	13	15	18	20	21	20	19
TOTAL OBSERVATIONS	659	684	684	684	695	694	693	693	693	694	694	694	696	695	693	693	695	680	652	650	640	642	642	641

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
35 39	39	41	40	24	24	28	32	32	32	32	32	32	32	34	39	40	40	37	38	33	33	33	32	28	31
SKY COVER 1-5/10																									
27 26	27	26	29	39	36	33	32	32	34	39	48	53	51	47	40	40	37	38	33	33	33	32	30	29	
SKY COVER 6-9/10																									
20 18	19	18	18	26	28	26	25	23	21	22	26	34	38	46	44	44	43	39	33	29	24	24	22	22	
SKY COVER ABOVE 9/10																									
17 17	15	13	11	12	13	11	10	9	7	7	6	9	9	11	13	15	21	20	20	20	20	20	19		

TOTAL OBSERVATIONS

687 697 697 696 697 695 693 696 696 696 695 697 696 697 695 696 696 679 666 666 665 666 666 666 666 664

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
SKY COVER 1-5/10	54	55	56	57	51	43	46	49	49	49	49	44	38	30	26	26	25	29	34	41	49	50	51	52	
SKY COVER 6-9/10	20	21	21	20	19	26	29	25	24	27	27	32	37	42	42	42	42	37	33	28	24	26	24	24	
SKY COVER ABOVE 9/10	14	13	13	12	12	12	17	17	16	14	14	15	16	19	23	26	25	25	22	18	15	12	13	12	
TOTAL OBSERVATIONS	11	10	11	12	12	11	11	11	11	10	10	9	10	8	8	7	8	8	11	13	13	12	11	12	

703 700 697 701 701 701 699 697 697 697 698 698 700 701 700 698 700 690 681 683 681 680 682 683

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	66	68	68	68	63	52	51	51	53	54	52	49	46	45	46	46	49	54	60	61	63	64	64	66
SKY COVER 1-5/10	16	14	16	17	19	25	21	23	23	22	23	24	27	27	27	29	23	20	18	18	18	16	16	16
SKY COVER 6-9/10	9	10	9	7	10	14	17	16	15	13	16	18	17	19	18	15	19	17	12	11	10	11	11	9
SKY COVER ABOVE 9/10	9	8	9	9	8	9	11	10	10	10	10	9	9	9	9	9	9	9	10	9	9	9	9	9

TOTAL OBSERVATIONS

734 734 735 735 734 738 736 737 737 724 738 733 731 729 733 730 711 709 710 709 711 709 710 709 710

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SKY COVER CLEAR	59	59	61	60	59	59	47	43	43	44	44	43	41	40	40	40	41	39	44	49	51	54	55	58
SKY COVER 1-5/10	19	18	18	19	18	19	26	22	20	20	21	23	24	24	23	23	24	26	24	23	23	20	20	20
SKY COVER 6-9/10	10	11	9	10	10	11	15	20	18	17	18	18	18	19	20	20	18	19	17	14	13	11	12	9
SKY COVER ABOVE 9/10	12	12	11	11	12	11	12	15	18	19	18	16	17	17	17	17	16	15	14	14	15	13	13	13
TOTAL OBSERVATIONS	695	697	696	697	700	696	696	693	693	696	696	697	694	694	693	694	693	690	674	675	673	674	673	678

TABLE VI (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF SKY COVER  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
SKY COVER CLEAR																									
54	53	54	55	57	55	47	37	38	38	38	38	37	34	33	33	34	33	34	41	45	48	49	51	50	
SKY COVER 1-5/10																									
17	20	20	18	16	17	24	27	22	22	20	21	22	25	23	20	21	22	22	24	23	23	22	20	22	
SKY COVER 6-9/10																									
16	13	11	11	12	12	13	19	18	18	19	18	20	21	24	25	24	24	24	18	16	13	13	12	11	
SKY COVER ABOVE 9/10																									
13	14	14	15	15	15	15	17	22	22	23	23	20	21	20	22	22	20	20	18	15	16	16	17	17	
TOTAL OBSERVATIONS	697	699	700	700	701	700	700	712	710	709	712	707	707	709	707	709	708	685	678	676	674	676	674	676	679

TABLE VII

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS			
0	3	651	80	38	0	651	0	0	
1	3	657	80	37	0	657	0	1	
2	3	657	80	37	0	657	0	2	
3	3	657	80	37	0	657	0	3	
4	3	657	80	37	0	657	0	4	
5	3	658	80	37	0	658	0	5	
6	4	660	80	38	0	660	0	6	
7	4	662	100	49	0	663	0	7	
8	4	662	90	55	0	662	0	8	
9	5	663	100	58	0	663	0	9	
10	5	662	100	58	0	662	0	10	
11	5	663	100	59	0	663	0	11	
12	5	658	100	58	1	658	1	12	
13	5	659	100	58	0	659	0	13	
14	5	661	100	58	0	661	0	14	
15	5	660	100	57	1	660	1	15	
16	5	659	100	57	1	659	1	16	
17	5	648	100	56	1	648	1	17	
18	4	640	85	43	0	640	0	18	
19	4	638	80	38	0	638	0	19	
20	4	640	70	38	1	640	1	20	
21	4	639	70	38	0	639	0	21	
22	3	639	80	38	0	639	0	22	
23	3	640	80	38	0	640	0	23	
BY MONTH	4	15690	100	47	0	15691	0		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL	HIGH	MEAN	LOW	0			
0	3	602	70	36	0	0	602	0	
1	3	602	70	36	0	0	603	1	
2	3	602	70	36	0	0	602	2	
3	3	602	70	36	0	0	602	3	
4	3	603	70	36	0	0	603	4	
5	3	604	70	35	0	0	604	5	
6	3	601	80	38	0	0	601	6	
7	4	602	85	50	0	0	602	7	
8	4	602	90	53	0	0	602	8	
9	4	602	100	54	0	0	602	9	
10	4	602	100	54	0	0	602	10	
11	4	602	100	54	1	0	602	11	
12	5	604	100	55	0	0	604	12	
13	5	603	100	54	0	0	603	13	
14	5	603	90	53	0	0	603	14	
15	5	604	100	53	0	0	604	15	
16	5	603	85	53	1	0	603	16	
17	5	593	85	52	1	0	593	17	
18	4	585	85	46	1	0	585	18	
19	4	584	80	37	1	0	584	19	
20	3	584	70	36	0	0	584	20	
21	3	585	70	36	1	0	585	21	
22	3	585	70	36	1	0	585	22	
23	3	583	70	36	0	0	583	23	
BY MONTH	4	14342	100	44	0	0	14343		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

SKY COVER (TENTHS)			VISIBILITY (MILES)				
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR
0	3	664	60	36	1	664	0
1	3	666	80	36	2	666	1
2	3	664	60	36	1	664	2
3	3	665	60	36	0	665	3
4	3	665	60	35	0	665	4
5	3	665	80	36	0	665	5
6	4	662	100	45	1	662	6
7	4	663	90	50	2	663	7
8	4	662	90	52	0	662	8
9	4	662	100	52	0	663	9
10	4	662	100	52	1	663	10
11	4	661	100	52	0	661	11
12	5	665	100	51	0	665	12
13	5	663	100	49	1	663	13
14	5	663	100	49	1	663	14
15	5	663	100	48	0	663	15
16	5	665	100	47	1	665	16
17	5	647	100	48	0	647	17
18	5	636	100	48	0	636	18
19	4	638	85	36	0	639	19
20	4	639	60	35	0	639	20
21	3	640	60	35	1	640	21
22	3	638	60	35	1	638	22
23	3	639	60	35	1	639	23
BY MONTH	4	15757	100	43	0	15760	

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - AMITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS		
0	2	640	70	34	2	640	0	
1	2	641	70	34	2	641	1	
2	2	641	70	35	1	641	2	
3	2	640	70	35	1	640	3	
4	2	641	70	35	2	641	4	
5	3	640	85	40	1	640	5	
6	3	642	90	49	1	642	6	
7	3	641	90	49	1	641	7	
8	4	642	90	49	1	642	8	
9	4	641	90	48	1	641	9	
10	4	641	85	48	1	641	10	
11	4	640	85	47	1	640	11	
12	4	640	90	45	2	640	12	
13	4	642	90	44	1	642	13	
14	4	641	90	43	1	641	14	
15	4	640	90	42	1	640	15	
16	4	641	90	41	0	641	16	
17	4	607	85	43	1	607	17	
18	4	599	85	43	1	599	18	
19	4	598	85	37	2	598	19	
20	3	599	70	33	1	599	20	
21	3	598	60	33	1	598	21	
22	3	598	60	34	2	598	22	
23	3	598	80	34	2	598	23	
BY MONTH	3	15051	90	41	0	15091		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

SKY COVER (TENTHS)		VISIBILITY (MILES)					
HOUR	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS	HOUR
0	2	682	70	36	6	682	0
1	2	682	70	37	6	682	1
2	2	684	70	37	8	684	2
3	2	684	70	37	8	684	3
4	2	697	70	38	8	697	4
5	3	697	90	49	6	697	5
6	3	695	85	49	4	695	6
7	3	695	85	49	2	695	7
8	3	696	85	50	2	696	8
9	3	694	85	49	4	694	9
10	3	696	85	50	5	696	10
11	3	695	85	49	4	695	11
12	4	695	85	49	3	695	12
13	4	695	85	47	2	695	13
14	4	695	85	47	2	695	14
15	4	694	85	46	0	694	15
16	4	695	85	45	0	695	16
17	4	661	85	46	1	661	17
18	4	654	85	46	1	654	18
19	4	654	85	43	2	654	19
20	3	640	70	35	3	640	20
21	3	638	80	36	2	638	21
22	3	639	70	36	1	639	22
23	2	638	70	36	4	638	23
BY MONTH	3	16295	90	44	0	16295	

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS
	MEAN	TOTAL	HIGH	MEAN	LOW	TOTAL		
0	3	620	80	36	3	620	0	
1	2	641	60	37	4	641	1	
2	2	640	60	37	4	640	2	
3	2	643	60	37	5	643	3	
4	2	673	80	40	5	673	4	
5	3	672	90	52	3	672	5	
6	3	670	85	50	2	670	6	
7	3	671	85	49	2	671	7	
8	2	669	85	50	2	669	8	
9	2	671	85	50	3	671	9	
10	3	670	85	50	2	670	10	
11	3	672	85	50	1	672	11	
12	3	673	85	50	2	673	12	
13	3	671	85	49	3	671	13	
14	4	670	85	48	2	670	14	
15	4	669	95	48	0	669	15	
16	4	672	85	47	1	672	16	
17	4	660	85	48	0	660	17	
18	4	633	85	47	2	633	18	
19	4	631	95	47	1	631	19	
20	4	602	80	37	1	602	20	
21	3	602	70	36	1	602	21	
22	3	601	60	36	3	601	22	
23	3	603	60	36	3	603	23	
BY MONTH	3	15599	90	45	0	15599		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 AT STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL	HIGH	MEAN	LOW	OBSERVATIONS			
0	4	659	80	37	1	659	0		
1	4	684	70	37	3	684	1		
2	4	684	70	37	3	684	2		
3	4	684	70	37	1	684	3		
4	4	695	80	38	3	695	4		
5	5	694	85	47	1	694	5		
6	5	693	85	47	3	693	6		
7	4	693	90	46	3	693	7		
8	4	693	90	46	3	693	8		
9	4	694	85	47	2	694	9		
10	4	694	85	47	3	694	10		
11	4	694	85	47	3	694	11		
12	4	696	85	47	3	696	12		
13	5	695	85	47	2	695	13		
14	5	693	85	46	4	693	14		
15	6	693	85	47	1	693	15		
16	6	695	85	47	3	695	16		
17	6	680	85	48	0	680	17		
18	6	652	85	49	1	652	18		
19	6	650	65	48	2	650	19		
20	6	640	80	39	1	640	20		
21	5	642	80	37	1	642	21		
22	5	642	80	38	1	642	22		
23	5	641	80	37	1	641	23		
BY MONTH	5	16280	90	44	0	16279			

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS			
0	4	687	70	37	0	687	0	0	
1	4	697	60	37	1	697	1	1	
2	4	697	60	37	4	697	4	2	
3	4	696	60	37	7	696	7	3	
4	3	697	60	37	1	697	1	4	
5	4	695	80	42	1	695	1	5	
6	4	693	90	48	2	693	2	6	
7	4	696	85	47	5	696	5	7	
8	4	696	85	47	7	696	7	8	
9	4	696	85	47	5	696	5	9	
10	3	695	85	48	8	695	8	10	
11	4	697	85	48	5	697	5	11	
12	4	696	85	48	2	696	2	12	
13	5	697	100	48	4	697	4	13	
14	5	695	100	48	4	695	4	14	
15	6	696	90	48	3	696	3	15	
16	6	696	90	48	4	696	4	16	
17	6	679	90	49	2	679	2	17	
18	6	666	90	49	1	666	1	18	
19	6	666	90	45	0	666	0	19	
20	5	665	90	38	0	665	0	20	
21	5	666	70	38	4	666	4	21	
22	4	666	70	38	5	666	5	22	
23	4	664	70	37	3	664	3	23	
BY MONTH	4	16494	100	44	0	16494	0	16494	

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	SKY COVER (TENTHS)		VISIBILITY (FILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL	HIGH	MEAN	LOW	TOTAL			
0	3	703	70	37	3	703	0		
1	3	700	70	37	5	700	1		
2	3	697	70	37	4	697	2		
3	3	701	70	37	2	701	3		
4	3	701	70	37	2	701	4		
5	3	701	80	38	2	701	5		
6	3	699	90	49	2	699	6		
7	3	697	85	48	2	697	7		
8	3	697	85	47	3	697	8		
9	3	697	90	47	2	697	9		
10	3	698	85	47	4	698	10		
11	3	699	90	48	4	699	11		
12	3	700	90	48	3	700	12		
13	3	701	90	49	2	701	13		
14	4	700	90	49	5	700	14		
15	4	698	90	50	1	698	15		
16	4	700	90	50	2	700	16		
17	4	690	90	51	2	690	17		
18	4	681	90	49	1	681	18		
19	3	683	80	39	3	683	19		
20	3	681	80	38	3	681	20		
21	3	680	80	38	3	680	21		
22	3	682	80	38	4	682	22		
23	3	693	80	38	3	693	23		
BY MONTH	3	16668	90	44	1	16668			

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - AMITE SANDS MISSILE RANGE - NEAR MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)			TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL	HIGH	MEAN	LOW			
0	2	734	70	37	1	734	0	
1	2	734	70	36	1	734	1	
2	2	735	70	36	2	736	2	
3	2	735	70	36	2	735	3	
4	2	735	60	36	1	735	4	
5	2	734	70	37	1	734	5	
6	3	738	90	50	0	738	6	
7	3	736	90	50	0	736	7	
8	3	737	90	50	0	737	8	
9	3	737	90	50	0	737	9	
10	3	734	90	50	0	734	10	
11	3	738	90	50	1	738	11	
12	3	733	90	50	0	733	12	
13	3	731	90	50	0	731	13	
14	3	729	90	50	0	729	14	
15	3	733	90	51	0	733	15	
16	3	730	90	51	0	730	16	
17	3	711	90	52	1	711	17	
18	3	709	85	44	2	709	18	
19	2	710	60	39	4	710	19	
20	2	709	60	38	3	709	20	
21	2	711	60	38	3	711	21	
22	2	709	60	38	4	709	22	
23	2	710	70	37	1	710	23	
BY MONTH	2	17452	90	44	0	17453		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL OBSERVATIONS	HIGH	MEAN	LOW	TOTAL OBSERVATIONS		
0	2	695	60	37	1	695	0	
1	2	697	60	37	1	697	1	
2	2	697	60	37	1	697	2	
3	2	696	60	37	0	696	3	
4	2	697	60	37	1	697	4	
5	2	700	60	37	1	700	5	
6	3	696	60	42	0	696	6	
7	4	696	90	53	0	696	7	
8	4	693	90	53	0	693	8	
9	4	696	85	54	0	696	9	
10	4	696	85	54	1	696	10	
11	4	697	85	54	1	697	11	
12	4	694	85	54	2	694	12	
13	4	694	90	54	2	694	13	
14	4	693	85	54	1	693	14	
15	4	694	85	54	1	694	15	
16	4	693	85	55	0	693	16	
17	4	690	90	54	0	690	17	
18	3	674	80	40	0	674	18	
19	3	675	70	39	2	675	19	
20	3	673	70	39	0	673	20	
21	3	674	60	38	0	674	21	
22	3	673	60	38	1	673	22	
23	3	678	60	37	1	678	23	
BY MONTH	3	16561	90	45	0	16562		

TABLE VII (CONT.)

MEAN SKY COVER AND VISIBILITY BY MONTH AND BY HOUR  
 AT STATION - WHITE SANDS MISSILE RANGE - NEV. MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	SKY COVER (TENTHS)		VISIBILITY (MILES)				TOTAL OBSERVATIONS	TOTAL OBSERVATIONS	HOUR
	MEAN	TOTAL	HIGH	MEAN	LOW	TOTAL			
0	3	697	60	38	0	697	0	0	
1	3	699	60	38	0	699	1	1	
2	3	700	60	37	0	700	2	2	
3	3	700	60	37	0	700	3	3	
4	3	700	60	37	0	700	4	4	
5	3	701	60	37	0	701	5	5	
6	3	700	75	38	0	700	6	6	
7	4	700	90	52	0	700	7	7	
8	4	712	100	54	0	712	8	8	
9	4	710	100	55	0	710	9	9	
10	4	709	100	56	0	709	10	10	
11	4	712	100	56	0	712	11	11	
12	4	707	100	57	0	707	12	12	
13	5	709	100	56	0	709	13	13	
14	5	707	100	56	0	707	14	14	
15	5	709	100	55	0	709	15	15	
16	5	708	100	56	0	708	16	16	
17	4	685	100	55	0	685	17	17	
18	4	678	80	39	0	678	18	18	
19	3	678	80	38	0	678	19	19	
20	3	676	60	38	0	676	20	20	
21	3	674	70	38	0	674	21	21	
22	3	676	70	38	0	676	22	22	
23	3	679	70	38	0	679	23	23	
BY MONTH	4	16726	100	46	0	16726		16726	

TABLE VIII

VISIBILITY OCCURRENCES BY MEAN NUMBER OF DAYS PER MONTH  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH	VISIBILITY (MILES)			
	$\leq 2.5$	$> 3 \leq 6$	$> 7 \leq 9$	
JAN	2	3	3	3
FEB	2	3	4	4
MAR	2	4	4	4
APR	1	4	4	4
MAY	1	2	3	3
JUN	1	2	3	3
JUL	1	2	3	3
AUG	1	2	3	3
SEP	0	1	3	3
OCT	1	1	3	3
NOV	1	2	3	3
DEC	2	3	4	4

TABLE IX

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	VISIBILITY (MILES)							OBSERVATIONS
	<1	<3	<6	<10	<20	>20		
0	1	1	2	3	10	90	563	
1	1	1	2	3	11	89	567	
2	1	2	3	4	11	89	567	
3	1	2	2	4	11	89	567	
4	1	1	2	4	11	89	567	
5	1	1	2	4	11	89	568	
6	1	2	3	5	11	89	569	
7	1	2	2	5	10	90	571	
8	1	2	3	5	11	89	570	
9	2	3	3	5	9	91	571	
10	1	2	3	5	9	91	570	
11	1	1	2	5	10	90	571	
12	1	1	3	5	10	90	568	
13	0	1	2	4	10	90	568	
14	0	1	2	5	11	89	570	
15	1	1	2	5	14	86	569	
16	0	1	2	4	12	88	568	
17	0	1	2	5	10	90	552	
18	0	1	2	5	14	86	547	
19	1	1	2	5	12	88	545	
20	0	1	2	5	11	89	547	
21	1	1	2	4	11	89	546	
22	1	1	2	4	11	89	546	
23	1	1	2	4	11	89	547	
BY MONTH	1	1	2	4	11	89	13494	

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	<1	<3	<6	<10	<20	>20	
0	1	2	3	8	17	83	516
1	1	2	2	6	18	82	517
2	1	2	3	6	17	83	516
3	1	2	3	6	17	83	516
4	1	2	3	6	18	82	517
5	1	2	3	7	20	80	518
6	1	1	2	5	18	82	515
7	1	2	3	7	15	85	516
8	1	2	3	8	15	85	516
9	1	3	4	8	16	84	516
10	1	2	3	7	14	86	516
11	1	2	3	7	16	84	516
12	1	1	3	8	15	85	518
13	1	2	4	10	17	83	517
14	1	2	4	9	16	84	517
15	1	1	3	8	16	84	518
16	1	2	5	8	17	83	518
17	1	2	5	9	17	83	503
18	0	1	3	7	20	80	499
19	0	1	3	7	18	82	498
20	1	2	2	7	17	83	499
21	0	2	3	6	17	83	499
22	0	2	3	7	16	84	499
23	1	2	3	7	16	84	497
BY MONTH	1	2	3	7	17	83	12277

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	≤1	≤3	≤6	≤10	≤20	>20	
0	0	0	1	6	18	82	565
1	0	1	1	5	17	83	567
2	0	0	2	5	18	82	565
3	0	0	1	5	18	82	566
4	0	1	1	5	19	81	566
5	0	0	2	5	18	82	566
6	0	0	1	5	15	85	563
7	0	0	2	6	16	84	564
8	0	1	3	6	17	83	563
9	1	2	3	7	16	84	564
10	0	1	2	7	17	83	564
11	0	1	3	9	18	82	562
12	1	2	4	10	19	81	566
13	1	2	5	11	21	79	564
14	1	2	5	12	22	78	564
15	1	2	5	12	21	79	564
16	1	2	5	12	22	78	566
17	1	1	5	11	21	79	544
18	1	1	5	10	21	79	537
19	1	2	3	9	22	78	540
20	1	2	3	9	21	79	540
21	0	1	3	8	21	79	541
22	0	1	3	7	20	80	539
23	0	0	1	7	20	80	540
BY MONTH	0	1	3	8	19	81	13380

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	VISIBILITY (MILES)					OBSERVATIONS	
	<1	<3	<6	<10	>20		
0	0	0	1	7	23	77	544
1	0	1	1	7	23	77	545
2	0	1	2	6	23	77	545
3	0	1	1	5	22	78	544
4	0	1	1	6	22	78	545
5	0	1	1	5	18	82	544
6	0	1	2	6	15	85	545
7	0	1	3	6	17	83	544
8	0	0	2	6	16	84	545
9	0	1	2	6	17	83	544
10	0	0	3	8	19	81	544
11	0	1	4	9	21	79	543
12	0	1	4	11	23	77	544
13	0	1	5	12	27	73	545
14	0	2	5	13	28	72	544
15	0	1	6	15	29	71	543
16	1	2	5	14	30	70	544
17	0	2	6	13	30	70	506
18	0	2	5	13	27	73	502
19	0	1	3	10	28	72	501
20	0	1	3	9	27	73	502
21	0	1	3	11	25	75	501
22	0	1	1	8	24	76	501
23	0	0	2	9	24	76	501
BY MONTH	0	1	3	9	23	77	12766

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

HOUR	VISIBILITY (MILES)					OBSERVATIONS	
	≤1	≤3	≤6	≤10	>20		
0	0	0	0	3	14	86	579
1	0	0	0	3	15	85	579
2	0	0	0	3	14	86	580
3	0	0	0	3	14	86	580
4	0	0	0	2	11	89	593
5	0	0	0	1	9	91	593
6	0	0	0	1	9	91	591
7	0	0	0	2	9	91	591
8	0	0	1	2	8	92	592
9	0	0	1	2	7	93	590
10	0	0	1	2	8	92	592
11	0	0	0	2	8	92	591
12	0	0	1	2	9	91	591
13	0	0	1	4	10	90	591
14	0	0	1	4	11	89	591
15	0	0	2	5	16	84	590
16	1	1	2	6	17	83	591
17	0	1	2	7	18	82	551
18	0	1	2	5	19	81	549
19	0	1	2	6	20	80	549
20	0	0	1	5	20	80	535
21	0	0	1	4	18	82	533
22	0	1	1	4	16	84	534
23	0	0	1	5	17	83	533
BY MONTH	0	0	1	3	13	87	13789

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	<1	<3	<6	<10	>20	>20	
0	0	0	1	3	13	87	516
1	0	0	0	3	13	87	537
2	0	0	0	2	13	87	536
3	0	0	1	2	13	87	539
4	0	0	1	2	10	90	569
5	0	0	1	2	7	93	568
6	0	0	1	3	8	92	566
7	0	1	1	4	10	90	567
8	0	0	1	3	9	91	565
9	0	1	1	2	9	91	567
10	0	1	1	2	8	92	566
11	0	1	1	1	10	90	568
12	0	1	1	2	10	90	569
13	0	1	1	2	10	90	567
14	0	1	1	3	11	89	566
15	0	0	1	3	13	87	565
16	0	1	1	4	14	86	568
17	0	0	1	5	14	86	552
18	0	0	1	5	15	85	529
19	0	1	1	6	17	83	527
20	0	1	2	6	16	84	498
21	0	0	0	5	16	84	498
22	0	0	0	5	14	86	497
23	0	0	1	4	13	87	499
BY MONTH	0	0	1	3	12	88	13099

TABLE IX (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	≤1	≤3	≤6	≤10	≤20	>20	
0	0	1	1	3	10	90	555
1	0	0	1	3	11	89	581
2	0	0	0	2	11	89	581
3	0	0	0	2	10	90	581
4	0	0	0	2	10	90	592
5	0	0	0	2	10	90	591
6	0	0	1	3	12	88	590
7	0	1	1	4	13	87	590
8	0	1	2	3	13	87	589
9	0	1	1	3	11	89	590
10	0	1	1	2	12	88	590
11	0	0	1	2	10	90	590
12	0	0	0	1	9	91	592
13	0	0	0	1	9	91	592
14	0	0	1	2	9	91	590
15	0	1	1	3	10	90	590
16	0	0	1	3	9	91	591
17	0	0	1	4	9	91	574
18	0	0	1	2	9	91	549
19	0	0	1	4	11	89	547
20	0	1	1	4	12	88	537
21	0	1	1	3	13	87	539
22	0	0	1	2	11	89	538
23	0	0	1	2	10	90	538
BY MONTH	0	0	1	3	11	89	13797

TABLE IX (CONT.)  
 DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	VISIBILITY (MILES)					OBSERVATIONS
	≤1	≤3	≤6	≤10	≤20	
0	0	1	1	4	11	89
1	0	0	1	4	12	88
2	0	0	1	4	11	89
3	0	0	0	3	11	89
4	0	0	1	4	11	89
5	0	0	1	3	10	90
6	0	0	0	2	12	88
7	0	0	0	2	13	87
8	0	0	0	2	11	89
9	0	0	0	2	10	90
10	0	0	0	1	9	91
11	0	0	0	0	7	93
12	0	0	0	1	8	92
13	0	0	0	1	8	92
14	0	0	0	1	9	91
15	0	0	1	2	9	91
16	0	0	0	1	9	91
17	0	0	1	2	8	92
18	0	0	1	2	9	91
19	0	0	1	3	12	88
20	0	0	1	2	11	89
21	0	0	1	3	11	89
22	0	0	0	3	12	88
23	0	0	1	3	13	87
BY MONTH	0	0	0	2	10	90
						13949

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	<1	<3	<6	<10	<20	>20	
0	0	0	1	3	12	88	602
1	0	0	1	3	12	88	599
2	0	0	1	4	13	87	596
3	0	0	0	4	15	85	600
4	0	1	1	4	14	86	600
5	0	0	1	3	14	86	599
6	0	0	1	3	11	89	599
7	0	0	1	4	14	86	597
8	0	0	1	3	14	86	597
9	0	0	1	3	12	88	597
10	0	0	1	3	10	90	598
11	0	0	0	2	10	90	598
12	0	0	0	2	9	91	599
13	0	0	0	2	9	91	600
14	0	0	1	2	9	91	599
15	0	0	1	2	9	91	597
16	0	1	1	2	8	92	599
17	0	0	1	1	8	92	589
18	0	0	1	2	11	89	581
19	0	0	0	3	12	88	583
20	0	0	0	3	12	88	581
21	0	0	0	3	11	89	580
22	0	0	0	3	11	89	582
23	0	0	1	3	11	89	582
BY MONTH	0	0	1	3	11	89	14254

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	VISIBILITY (MILES)					OBSERVATIONS
	≤1	≤3	≤6	≤10	>20	
0	0	0	0	2	13	87
1	0	0	0	2	13	87
2	0	0	1	2	14	86
3	0	0	1	2	15	85
4	0	0	1	3	15	85
5	0	0	1	3	15	85
6	0	0	1	3	9	91
7	1	1	1	3	9	91
8	1	1	1	3	10	90
9	0	1	1	3	9	91
10	0	1	1	3	9	91
11	0	1	1	2	9	91
12	0	0	0	3	9	91
13	0	0	0	2	7	93
14	0	0	1	2	7	93
15	0	0	1	2	8	92
16	0	0	1	2	10	90
17	0	0	1	2	9	91
18	0	0	1	1	9	91
19	0	0	0	1	9	91
20	0	0	1	2	9	91
21	0	0	0	1	10	90
22	0	0	1	2	10	90
23	0	0	0	2	11	89
BY MONTH	0	0	1	2	10	90
						14840

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	≤1	≤3	≤6	≤10	≤20	>20	
0	0	1	1	5	11	89	596
1	0	1	1	5	13	87	600
2	1	1	2	4	13	88	600
3	1	1	2	4	12	88	599
4	0	1	1	5	13	87	600
5	0	0	1	5	12	88	600
6	1	1	1	4	9	91	599
7	0	0	1	4	9	91	599
8	1	1	2	4	9	91	596
9	0	0	1	3	10	90	595
10	0	1	1	3	10	90	599
11	0	1	1	3	9	91	597
12	0	0	1	2	9	91	597
13	0	1	2	4	10	90	597
14	0	1	2	4	10	90	596
15	1	1	2	4	9	91	597
16	1	1	2	3	9	91	596
17	0	1	1	3	8	92	589
18	0	0	0	4	9	91	576
19	0	0	0	3	8	92	576
20	0	0	1	3	9	91	574
21	0	1	1	4	11	89	575
22	1	1	2	5	12	88	575
23	1	1	1	4	13	88	576
BY MONTH	0	1	1	4	10	90	14208

TABLE IX (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF VISIBILITY  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	VISIBILITY (MILES)						OBSERVATIONS
	≤1	≤3	≤6	≤10	≤20	>20	
0	2	2	3	5	12	88	611
1	2	3	3	6	11	89	613
2	2	3	3	6	13	87	614
3	2	3	4	7	14	86	614
4	2	2	4	6	14	86	614
5	2	3	4	7	14	86	613
6	2	3	4	6	12	88	614
7	2	3	4	5	12	88	614
8	2	4	4	5	10	90	619
9	2	3	5	7	12	88	617
10	2	3	4	6	12	88	614
11	3	4	5	7	12	88	617
12	2	3	5	8	12	88	615
13	2	3	4	7	13	87	617
14	2	2	3	6	12	88	615
15	1	3	4	7	13	87	617
16	2	2	3	7	12	88	617
17	1	2	3	6	12	88	599
18	1	2	3	7	12	88	596
19	1	2	2	7	12	88	596
20	2	2	3	7	12	88	594
21	2	2	2	6	13	87	592
22	2	2	2	5	11	89	594
23	2	2	2	5	11	89	593
BY MONTH	2	3	3	6	12	88	14621

TABLE X

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JANUARY

HOUR	CEILING (FEET ABOVE GROUND LEVEL)											OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*			
0	1	2	3	4	5	9	14	15	85	651	0		
1	1	2	2	4	5	9	14	15	85	657	1		
2	1	2	3	4	6	9	14	16	84	657	2		
3	1	2	3	4	6	10	15	15	85	657	3		
4	1	2	3	5	6	11	16	18	82	657	4		
5	1	2	3	5	7	12	15	17	83	658	5		
6	1	2	3	5	7	13	17	18	82	660	6		
7	2	2	3	5	7	14	20	21	79	663	7		
8	1	2	4	6	7	13	19	21	79	662	8		
9	2	2	3	5	7	14	20	21	79	663	9		
10	1	2	3	6	7	13	19	21	79	662	10		
11	1	1	3	5	7	12	18	20	80	663	11		
12	1	1	3	6	8	13	19	20	80	659	12		
13	1	2	3	5	8	13	17	18	82	660	13		
14	1	2	2	4	8	12	17	18	82	662	14		
15	1	1	2	4	8	12	17	19	81	661	15		
16	1	2	3	5	8	13	17	19	81	660	16		
17	1	2	3	4	7	12	17	18	82	649	17		
18	1	2	3	5	7	12	17	18	82	640	18		
19	1	2	3	4	6	11	17	18	82	638	19		
20	1	2	3	4	5	10	16	17	83	640	20		
21	1	2	3	4	5	10	14	15	85	639	21		
22	1	2	3	4	5	10	13	15	85	639	22		
23	1	2	3	4	5	9	13	14	86	640	23		
BY MONTH	1	2	3	5	7	11	17	18	82	15697			

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF FEBRUARY

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*	
0	1	2	3	4	5	10	13	15	85	601	
1	1	3	3	5	6	11	14	15	85	602	
2	2	3	4	5	6	10	13	14	86	601	
3	1	3	5	5	6	10	13	14	86	601	
4	1	3	4	5	6	10	13	15	85	602	
5	1	4	4	5	7	11	14	16	84	603	
6	1	3	4	6	7	11	17	18	82	601	
7	1	3	5	6	8	13	20	22	78	602	
8	1	3	4	7	9	12	20	21	79	602	
9	1	3	4	7	8	12	18	20	80	602	
10	2	3	4	7	8	12	18	19	81	602	
11	1	3	4	7	8	12	17	19	81	602	
12	1	2	3	6	8	15	20	21	79	604	
13	1	2	3	5	10	15	21	21	79	603	
14	1	2	3	5	9	17	22	23	77	603	
15	1	1	2	5	8	15	20	22	78	604	
16	1	1	2	4	8	14	19	22	78	603	
17	0	1	3	5	8	13	17	20	80	593	
18	0	1	2	3	7	12	19	21	79	585	
19	1	1	2	3	7	12	17	19	81	584	
20	1	1	2	3	5	9	14	16	84	584	
21	1	2	2	3	5	9	14	15	85	585	
22	1	2	3	4	6	9	13	14	86	585	
23	1	2	3	4	5	9	14	15	85	583	
BY MONTH	1	2	3	5	7	12	17	18	82	14337	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MARCH

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*		
0	0	0	1	2	3	9	14	15	85	663	0	
1	0	0	1	2	3	10	15	16	84	665	1	
2	0	0	1	2	4	10	15	16	84	663	2	
3	0	1	1	3	4	10	15	16	84	664	3	
4	1	1	2	3	5	10	15	16	84	664	4	
5	1	1	2	3	5	10	14	16	84	664	5	
6	1	1	2	3	5	11	16	17	83	662	6	
7	0	1	2	3	5	11	17	19	81	663	7	
8	0	1	2	3	4	10	16	18	82	662	8	
9	1	1	2	3	6	10	16	18	82	663	9	
10	0	1	3	4	6	10	16	18	82	663	10	
11	1	1	2	4	6	11	16	18	82	661	11	
12	0	1	3	5	6	13	19	22	78	665	12	
13	0	1	2	4	7	14	19	21	79	663	13	
14	0	1	2	5	7	15	19	22	78	663	14	
15	0	1	2	4	7	15	19	21	79	663	15	
16	1	2	2	4	7	15	20	23	77	665	16	
17	1	1	2	4	6	14	19	22	78	647	17	
18	0	1	1	2	5	12	18	20	80	636	18	
19	0	1	1	2	4	10	16	18	82	639	19	
20	0	1	1	2	3	9	14	16	84	639	20	
21	0	0	1	2	3	9	13	15	85	640	21	
22	0	0	0	2	4	9	13	15	85	638	22	
23	0	0	0	2	4	8	13	15	85	639	23	
BY MONTH	0	1	2	3	5	11	16	18	82	15754		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF APRIL

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										* >20000	OBSERVATIONS	HOUR
	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000					
0	0	0	0	0	1	3	7	8	92	640	0		
1	0	0	0	0	1	4	7	8	92	641	1		
2	0	0	0	0	1	4	8	9	91	641	2		
3	0	0	0	0	1	4	8	9	91	640	3		
4	0	0	0	0	1	4	8	8	92	641	4		
5	0	0	0	0	1	5	12	13	87	640	5		
6	0	0	0	1	2	7	13	15	85	642	6		
7	0	0	0	1	2	7	12	14	86	641	7		
8	0	0	1	1	2	6	11	13	87	642	8		
9	0	0	1	1	2	6	10	12	88	641	9		
10	0	0	0	1	2	5	11	12	88	641	10		
11	0	0	0	1	2	6	10	12	88	640	11		
12	0	0	0	1	3	8	12	14	86	640	12		
13	0	0	0	1	2	9	14	15	85	642	13		
14	0	0	0	1	2	10	13	15	85	641	14		
15	0	0	0	1	2	10	14	16	84	640	15		
16	0	0	0	0	2	9	15	17	83	641	16		
17	0	0	0	0	2	9	16	18	82	607	17		
18	0	0	0	1	2	8	15	17	83	599	18		
19	0	0	0	1	3	8	15	16	84	598	19		
20	0	0	0	0	1	6	10	12	88	599	20		
21	0	0	0	0	1	5	8	9	91	598	21		
22	0	0	0	1	1	4	8	9	91	598	22		
23	0	0	0	0	1	3	7	8	92	598	23		
BY MONTH	0	0	0	1	2	6	11	12	88	15091			

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF MAY

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	≤5000	≤10000	≤15000	≤20000	>20000	*		
0	0	0	0	0	1	5	9	11	89	682	0	
1	0	0	0	0	0	5	8	9	91	682	1	
2	0	0	0	0	1	5	9	10	90	684	2	
3	0	0	0	0	1	5	8	9	91	684	3	
4	0	0	0	0	1	4	9	9	91	697	4	
5	0	0	0	0	1	6	10	11	89	697	5	
6	0	0	0	0	1	7	13	14	86	695	6	
7	0	0	0	1	1	6	12	13	87	695	7	
8	0	0	0	1	1	5	10	11	89	696	8	
9	0	0	0	1	1	5	8	10	90	694	9	
10	0	0	0	1	1	6	10	12	88	696	10	
11	0	0	0	1	2	6	10	11	89	695	11	
12	0	0	0	1	1	7	11	12	88	695	12	
13	0	0	0	1	1	9	12	14	86	695	13	
14	0	0	0	1	2	11	13	15	85	695	14	
15	0	0	0	0	2	12	16	18	82	694	15	
16	0	0	0	0	2	12	16	18	82	695	16	
17	0	0	0	0	2	11	15	18	82	661	17	
18	0	0	0	1	1	8	13	16	84	654	18	
19	0	0	0	1	1	9	13	16	84	654	19	
20	0	0	0	1	1	7	11	12	88	640	20	
21	0	0	0	0	1	6	10	11	89	638	21	
22	0	0	0	0	1	6	10	11	89	639	22	
23	0	0	0	0	1	5	9	10	90	638	23	
BY MONTH	0	0	0	0	1	7	11	13	87	16295		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DAILY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JUNE

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*		
0	0	0	1	1	2	10	14	14	14	86	620	0
1	0	0	1	1	2	9	12	12	12	88	641	1
2	0	0	0	1	1	8	11	11	12	88	640	2
3	0	0	0	1	1	7	10	10	10	90	643	3
4	0	0	0	1	1	7	11	11	12	88	673	4
5	0	0	1	1	1	7	11	11	12	88	672	5
6	0	0	0	1	1	8	11	11	12	88	669	6
7	0	0	0	1	2	7	11	11	12	88	570	7
8	0	0	1	1	1	6	10	10	11	89	668	8
9	0	0	1	1	2	6	8	8	9	91	670	9
10	0	0	1	1	1	5	8	8	9	91	669	10
11	0	1	1	1	2	5	8	8	9	91	671	11
12	0	0	1	1	2	6	11	11	11	89	673	12
13	0	0	1	1	2	10	13	13	13	87	671	13
14	0	0	0	1	1	15	19	19	20	80	670	14
15	0	0	1	1	2	18	21	21	22	78	669	15
16	0	0	1	1	2	18	22	22	22	78	672	16
17	0	0	0	1	2	18	22	22	22	78	660	17
18	0	0	0	1	3	19	24	24	24	76	633	18
19	0	0	0	1	2	18	22	22	23	77	631	19
20	0	0	0	0	2	19	23	23	24	76	602	20
21	0	0	0	1	2	15	19	19	19	81	602	21
22	0	0	0	1	1	12	16	16	16	84	601	22
23	0	0	0	1	1	11	14	14	14	86	603	23
BY MONTH	0	0	1	1	2	11	15	15	15	85	15593	1

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF JULY

HOUR	CEILING (FEET ABOVE GROUND LEVEL)											OBSERVATIONS	HOUR
	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000	* >20000				
0	0	0	1	1	3	19	29	30	70	659	0		
1	0	0	1	2	4	19	28	29	71	684	1		
2	0	0	1	1	4	18	28	28	72	684	2		
3	0	1	1	2	4	16	25	26	74	684	3		
4	0	1	1	2	3	14	23	24	76	695	4		
5	0	1	1	2	4	15	26	26	74	694	5		
6	0	1	1	2	3	12	25	26	74	693	6		
7	0	0	1	2	3	12	22	23	77	693	7		
8	0	1	1	2	3	10	18	19	81	693	8		
9	0	1	1	2	3	8	17	18	82	694	9		
10	0	1	1	3	4	10	17	18	82	694	10		
11	0	1	1	3	4	10	17	18	82	694	11		
12	0	1	1	2	4	11	18	19	81	696	12		
13	0	0	1	2	5	20	25	26	74	695	13		
14	0	0	0	1	5	20	34	34	66	693	14		
15	0	0	1	1	5	30	36	37	63	693	15		
16	0	0	1	1	5	32	38	39	61	695	16		
17	0	0	0	1	4	28	35	35	65	680	17		
18	0	0	0	1	4	25	34	35	65	652	18		
19	0	0	0	2	5	25	35	35	65	650	19		
20	0	0	0	1	5	24	34	34	66	640	20		
21	0	1	1	2	5	22	29	30	70	642	21		
22	0	0	1	2	5	20	30	31	69	642	22		
23	0	1	1	2	5	20	32	32	68	641	23		
BY MONTH	0	0	1	2	4	19	27	28	72	16280			

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DAILY VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF AUGUST

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										* > 20000	OBSERVATIONS	HOUR
	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000	> 20000	OBSERVATIONS			
0	0	0	1	1	3	15	26	27	73	687	0		
1	0	0	0	2	3	14	26	26	74	697	1		
2	0	0	1	1	3	12	24	25	75	697	2		
3	0	0	1	2	3	12	22	22	76	696	3		
4	0	0	1	2	4	11	20	20	80	697	4		
5	0	1	2	3	3	12	23	23	77	695	5		
6	1	1	1	2	3	11	22	23	77	693	6		
7	1	1	1	2	3	11	23	23	77	696	7		
8	0	1	1	2	3	9	20	21	79	696	8		
9	0	0	1	2	2	8	17	18	82	596	9		
10	0	0	1	2	3	7	15	16	84	695	10		
11	0	0	1	2	3	7	17	17	83	697	11		
12	0	1	1	2	4	11	19	19	81	696	12		
13	0	0	1	2	6	19	25	25	75	697	13		
14	0	0	1	2	5	25	30	31	69	695	14		
15	0	0	0	2	6	30	37	38	62	696	15		
16	0	0	0	1	5	27	35	36	64	696	16		
17	0	0	0	1	5	24	33	34	66	679	17		
18	0	0	0	1	3	20	32	33	67	666	18		
19	0	0	0	1	5	24	33	33	67	666	19		
20	0	0	0	1	5	21	31	32	68	665	20		
21	0	0	0	1	4	19	29	30	70	666	21		
22	0	0	1	1	4	18	27	28	72	666	22		
23	0	0	1	1	4	17	28	29	71	664	23		
BY MONTH	0	0	1	2	4	16	26	26	74	16494			

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF SEPTEMBER

CEILING (FEET ABOVE GROUND LEVEL)

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										* >20000	OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	OBSERVATIONS			
0	0	1	1	2	4	11	18	18	82	18	703	0	
1	0	0	2	3	3	9	17	18	82	18	700	1	
2	0	1	1	2	4	10	18	18	82	18	697	2	
3	0	1	2	3	4	11	17	17	83	17	701	3	
4	0	1	2	4	5	12	19	19	81	19	701	4	
5	0	1	2	4	5	12	19	19	81	19	701	5	
6	0	1	2	4	6	13	20	20	80	20	699	6	
7	0	1	2	4	6	13	21	21	79	21	697	7	
8	1	1	3	4	6	12	20	21	79	21	697	8	
9	0	1	2	4	6	11	17	18	82	18	697	9	
10	0	1	2	5	6	10	17	17	83	17	698	10	
11	0	1	2	4	7	12	17	17	83	17	698	11	
12	0	0	2	4	6	13	17	17	83	17	700	12	
13	0	0	1	3	6	15	19	19	81	19	701	13	
14	0	0	1	3	6	18	23	23	77	23	700	14	
15	0	0	1	2	5	20	25	25	74	26	698	15	
16	0	1	1	2	5	16	22	22	78	22	700	16	
17	0	1	1	3	6	16	21	22	78	22	690	17	
18	0	0	1	2	5	15	21	21	79	21	681	18	
19	0	0	1	2	4	16	21	22	78	22	683	19	
20	0	0	1	2	4	13	19	19	81	19	681	20	
21	0	0	1	2	4	13	17	17	83	17	680	21	
22	0	0	1	2	4	13	18	18	82	18	682	22	
23	0	0	0	2	4	11	16	16	84	16	683	23	
BY MONTH	0	1	2	3	5	13	19	19	81	19	16668		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF OCTOBER

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*		
0	0	0	2	3	5	9	11	11	11	89	734	0
1	0	1	2	3	5	9	12	12	13	87	734	1
2	0	1	2	3	5	8	10	10	11	89	736	2
3	0	1	2	3	5	9	11	11	11	89	735	3
4	1	1	2	4	5	8	10	10	11	89	735	4
5	1	1	3	4	6	9	11	11	12	88	734	5
6	1	1	3	5	7	10	13	14	14	86	738	6
7	1	2	3	5	7	11	15	15	15	85	736	7
8	1	2	3	5	7	10	14	14	14	86	737	8
9	0	1	2	5	6	10	12	12	13	87	737	9
10	0	1	2	5	6	10	12	12	13	87	734	10
11	0	1	2	4	6	10	13	13	14	86	738	11
12	0	1	1	4	6	10	12	12	13	87	733	12
13	0	0	1	3	6	11	13	13	14	86	731	13
14	0	0	1	3	6	12	14	14	15	85	729	14
15	0	0	1	3	5	11	13	13	14	86	733	15
16	0	0	1	3	4	9	11	11	11	89	730	16
17	0	0	1	3	4	9	11	11	12	88	711	17
18	0	0	1	3	4	9	11	11	12	88	709	18
19	0	0	1	3	4	8	10	10	10	90	710	19
20	0	0	1	3	4	8	10	10	11	89	709	20
21	0	0	1	3	4	8	10	10	11	89	711	21
22	0	0	1	3	5	7	11	11	11	89	709	22
23	0	0	2	3	5	8	11	11	11	89	710	23
BY MONTH	0	1	2	4	5	9	12	12	12	88	17453	

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 AT STATION 1 - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF NOVEMBER

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	≤1000	≤2000	≤3000	≤4000	≤5000	≤10000	≤15000	≤20000	* >20000			
0	1	2	2	4	6	8	12	13	87	695	0	
1	1	2	2	3	5	8	12	13	87	697	1	
2	1	2	3	4	5	8	12	12	88	697	2	
3	1	2	2	4	5	8	12	12	88	696	3	
4	1	3	3	5	5	8	12	13	87	697	4	
5	1	3	3	5	6	8	11	12	88	700	5	
6	1	2	3	5	6	9	14	14	88	696	6	
7	1	2	4	5	7	11	16	18	82	696	7	
8	1	2	4	6	8	12	16	18	82	693	8	
9	1	2	4	6	7	11	15	16	84	696	9	
10	1	2	4	5	6	10	14	15	85	696	10	
11	1	1	3	4	5	10	14	15	85	697	11	
12	0	0	2	3	5	9	13	14	86	694	12	
13	0	1	2	3	5	9	13	14	86	694	13	
14	0	1	2	4	6	11	15	16	84	693	14	
15	1	1	2	3	6	10	15	16	84	694	15	
16	0	1	2	3	5	10	16	17	83	693	16	
17	0	1	2	3	5	9	14	15	85	690	17	
18	0	1	2	3	4	8	14	15	85	674	18	
19	0	1	2	3	4	8	13	14	86	674	19	
20	1	1	2	3	5	8	14	14	86	672	20	
21	1	1	2	3	5	8	14	15	85	673	21	
22	1	2	2	4	6	8	13	14	86	672	22	
23	1	2	2	4	6	8	12	13	87	677	23	
BY MONTH	1	2	3	4	6	9	14	14	86	16556		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

TABLE X (CONT.)

DIURNAL VARIATION OF THE RELATIVE FREQUENCY DISTRIBUTION OF CEILINGS  
 BY MONTH AND BY HOUR (IN PERCENT)  
 A STATION: - WHITE SANDS MISSILE RANGE - NEW MEXICO  
 PERIOD OF RECORD 1951-1973

MONTH OF DECEMBER

HOUR	CEILING (FEET ABOVE GROUND LEVEL)										OBSERVATIONS	HOUR
	<1000	<2000	<3000	<4000	<5000	<10000	<15000	<20000	>20000	*		
0	2	3	4	6	8	14	17	19	81	697	0	
1	2	3	5	6	8	12	16	16	84	699	1	
2	2	3	4	6	8	12	16	16	84	700	2	
3	3	4	5	7	9	13	17	18	82	700	3	
4	3	3	5	7	9	14	17	18	82	700	4	
5	3	3	4	7	9	14	17	18	82	701	5	
6	3	3	4	7	10	15	19	19	81	700	6	
7	2	3	4	8	11	17	22	22	78	700	7	
8	2	4	5	8	10	17	23	24	76	712	8	
9	3	4	5	8	10	17	24	25	75	710	9	
10	2	5	6	8	10	17	23	24	76	709	10	
11	3	4	5	8	10	16	21	22	78	712	11	
12	3	4	6	9	11	16	21	22	78	707	12	
13	2	4	5	8	10	15	20	20	80	709	13	
14	2	3	5	8	11	17	21	21	79	707	14	
15	1	3	5	8	11	16	21	22	78	709	15	
16	2	3	5	8	10	16	21	21	79	708	16	
17	1	2	4	7	9	15	22	22	78	685	17	
18	2	3	4	6	7	13	19	19	81	678	18	
19	1	3	4	6	8	12	17	17	83	678	19	
20	1	3	4	5	8	13	17	18	82	676	20	
21	1	2	4	6	7	12	17	17	83	674	21	
22	1	3	4	6	7	12	17	18	82	676	22	
23	1	3	4	6	8	13	18	19	81	679	23	
BY MONTH	2	3	5	7	9	15	19	20	80	16726		

\* NOTE. INCLUDES OBSERVATIONS WITH NO CEILING AND WITH CEILING ABOVE 20000 FEET

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