DEC 1989
WILMINGTON, DE
NAT'L WEA SER OFC
AIRPORT TERMINAL BLDG

ISSN 0198-117X

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

GREATER WILMINGTON AIRPORT

LATITUDE 39° 40'N   LONGITUDE 75° 36'W   ELEVATION (GROUND) 74 FEET   TIME ZONE EASTERN   13781

DEC 1989 WILMINGTON, DE

DATE	TEMPERATURE °F: MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65°F: HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)	WEATHER TYPES (1 FOG, 2 HEAVY FOG, 3 THUNDERSTORM, 4 ICE PELLETS, 5 HAIL, 6 GLAZE, 7 DUSTSTORM, 8 SMOKE, HAZE, 9 BLOWING SNOW)	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION: WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)	AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L.	WIND (M.P.H.): RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST: SPEED	PEAK GUST: DIRECTION	FASTEST 1-MIN: SPEED	FASTEST 1-MIN: DIRECTION	SUNSHINE: MINUTES	PERCENT OF TOTAL POSSIBLE	SKY COVER (TENTHS): SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	40	28	34	-6	23	31	0		0	T	T	30.115	31	3.1	6.2	20	W	14	31			9	7
02	55*	24	40	0	21	25	0		0	0.00	0.0	29.900	13	3.1	10.3	30	S	18	19			6	5
03	40	20	30	-9	9	35	0		0	T	T	29.615	31	18.4	19.0	43	NW	26	31			6	4
04	32	19	26	-13	7	39	0		0	T	T	29.760	29	11.3	13.5	36	NW	24	30			4	5
05	36	29	33	-5	24	32	0		0	T	T	29.670	16	0.3	0.7	9	SW	5	23			10	10
06	45	34	40*	2	33	25	0	1 8	0	0.02	0.0	29.670	09	0.2	3.8	18	NW	13	32			10	10
07	46	26	36	-2	16	29	0		0	0.00	0.0	30.130	34	12.1	13.4	30	NW	20	34			1	4
08	26	22	24	-13	15	41	0	1	0	0.35	2.9	30.280	03	8.1	8.4	18	N	15	02			10	10
09	27	14	21	-16	8	44	0		3	0.00	0.0	30.070	03	8.1	9.0	18	NE	13	06			5	6
10	33	14	24	-13	13	41	0		3	0.00	0.0	29.930	31	3.2	5.6	13	N	13	36			6	5
11	40	17	29	-8	24	36	0	1 8	2	0.00	0.0	29.930	25	2.9	4.0	9	SW	8	22			5	5
12	34	28	31	-5	29	34	0	1	1	0.21	3.2	29.940	04	4.9	6.5	15	NE	12	06			10	10
13	35	20	28	-8	21	37	0	1	5	0.07	2.0	29.860	36	6.2	8.0	15	N	12	04			7	8
14	32	13	23	-13	15	42	0	1 8	4	0.00	0.0	29.990	25	2.5	4.1	13	SW	9	19			0	1
15	40	17	29	-6	15	36	0	1 4	4	0.02	0.3	29.890	26	1.1	9.8	39	NW	28	30			9	7
16	30	16	23	-12	7	42	0		3	0.00	0.0	29.895	30	17.0	17.3	35	NW	28	30			0	0
17	22	11	17	-18	4	48	0		2	0.00	0.0	30.150	29	10.3	10.7	20	NW	16	31			5	5
18	24	13	19	-16	5	46	0		1	0.00	0.0	30.250	31	9.6	10.2	22	NW	15	31			2	4
19	26	11	19	-15	8	46	0		1	T	T	30.160	01	1.2	4.2	12	NE	8	06			10	8
20	28	15	22	-12	10	43	0		1	0.00	0.0	30.060	30	8.8	9.3	26	NW	18	32			0	1
21	26	10	18	-16	5	47	0		1	0.00	0.0	30.105	30	8.3	9.3	29	NW	20	30			9	6
22	17	5	11*	-23	-2	54	0		1	0.00	0.0	30.360	31	12.9	13.1	29	NW	20	31			2	1
23	23	4*	14	-20	0	51	0		1	0.00	0.0	30.465	36	9.9	10.2	18	N	14	36			0	1
24	21	7	14	-19	1	51	0		T	0.00	0.0	30.230	36	9.8	10.5	22	N	15	01			7	5
25	27	8	18	-15	7	47	0		T	0.00	0.0	29.910	23	6.2	6.8	20	SW	14	24			10	8
26	35	14	25	-8	13	40	0	1	T	0.01	0.2	29.710	29	10.7	12.8	33	NW	23	31			8	6
27	21	8	15	-18	4	50	0	1	T	0.02	0.3	30.080	22	2.5	5.9	21	NW	16	30			9	7
28	34	16	25	-8	18	40	0	1 8	T	0.00	0.0	30.040	29	4.7	5.5	22	NW	15	29			6	5
29	35	17	26	-7	19	39	0	1 8	T	0.00	0.0	30.220	07	3.9	4.6	13	E	9	07			10	9
30	35	31	33	1	29	32	0	1	T	0.02	0.0	30.110	05	7.4	7.7	15	NE	12	06			10	10
31	42	31	37	5	34	28	0	2 6	T	0.55	0.0	29.800	09	2.1	5.0	14	SW	9	15			10	10
	SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:								TOTAL	%	SUM	SUM
	1007	542				1231	0			1.27	8.9	30.010	32	4.7	8.6	43	NW	28	30		FOR	196	183
	AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 3		DATE: 16+		POSSIBLE	MONTH	AVG.	AVG.
	32.5	17.5	25.0	-10.5	14.0	316	0	≥ .01 INCH.	9	-2.27												6.3	5.9

NUMBER OF DAYS				SEASON TO DATE			
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH	3
≥ 90°	≤ 32°	≤ 32°	≤ 0°	2128	1177	THUNDERSTORMS	0
0	15	30	0	DEP.	DEP.	HEAVY FOG	1
				313	162	CLEAR 7	PARTLY CLOUDY 10 CLOUDY 14

GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
PRECIPITATION		SNOW, ICE PELLETS			
0.55	31	5.2	12-13	5	13

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER

Kenneth D Hadeen
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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

OBSERVATIONS AT 3-HOUR INTERVALS

DEC 1989 13781
WILMINGTON, DE

DEC 1st

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	9	55	15			34	30	22	62	28	5
04	10	47	15			34	30	23	64	25	4
07	10	41	15			35	31	24	64	30	3
10	10	37	10		S	37	32	24	59	30	5
13	9	90	10			39	35	28	65	28	9
16	6	75	8			37	34	29	73	30	8
19	3	UNL	10			33	30	23	67	03	6
22	0	UNL	15			30	25	15	54	06	5

DEC 2nd

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			28	23	12	51	10	6
04	0	UNL	15			25	20	4	40	07	6
07	3	UNL	15			24	20	10	55	08	10
10	10	29	15			31	28	21	67	08	7
13	0	UNL	15			50	42	32	50	16	15
16	5	UNL	15			53	42	27	37	19	15
19	8	100	12			46	40	31	56	20	6
22	10	200	10			41	37	30	65	30	7

DEC 3rd

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	120	10			39	32	19	45	30	11
04	3	UNL	10			35	29	17	48	29	9
07	3	UNL	15			32	27	18	56	27	10
10	6	41	15			35	29	18	50	30	22
13	7	60	15			31	24	7	36	32	20
16	6	70	15			29	22	3	33	33	20
19	1	UNL	15			24	18	0	35	31	23
22	1	UNL	15			21	16	-1	38	31	17

DEC 4th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			19	15	-1	41	31	12
04	0	UNL	15			19	15	-1	41	31	14
07	0	UNL	15			19	16	5	54	30	14
10	2	UNL	15			25	20	5	42	31	18
13	4	UNL	15			30	23	5	34	31	15
16	10	250	15			31	24	7	36	24	9
19	10	35	12			31	25	12	45	24	4
22	10	85	12			30	26	18	61	22	9

DEC 5th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	70	10			29	28	25	85	00	0
04	10	60	10			30	28	25	82	00	0
07	10	50	7			30	28	25	82	00	0
10	10	47	7			32	29	24	72	00	0
13	10	55	8			35	31	24	64	00	0
16	10	47	8			35	31	23	62	00	0
19	10	50	8			35	31	24	64	00	0
22	10	50	8			35	31	24	64	00	0

DEC 6th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	7	50	10			34	31	26	73	18	4
04	10	50	10			35	32	28	76	00	0
07	10	110	7			36	33	27	70	06	5
10	10	95	7			39	35	30	70	13	3
13	10	80	7		RW	45	41	35	68	19	3
16	10	70	5		H	45	42	39	80	00	0
19	10	85	7			44	42	40	86	00	0
22	10	80	6		F	42	41	39	89	31	5

DEC 7th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	7			45	41	37	74	31	12
04	1	UNL	10			43	37	28	56	31	14
07	1	UNL	15			37	32	22	55	34	14
10	0	UNL	15			36	29	15	42	34	17
13	0	UNL	15			37	29	12	36	34	15
16	4	UNL	15			33	26	10	38	34	8
19	10	UNL	15			29	24	11	47	02	6
22	10	220	15			29	23	6	38	03	9

DEC 8th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	200	12			25	20	6	44	02	5
04	10	160	12			25	20	7	46	04	5
07	10	120	10			26	21	6	42	05	7
10	10	8	0	12	S	23	22	20	88	05	8
13	10	10	0	12	S	24	23	21	88	03	8
16	10	5	0	8	SF	22	21	20	92	04	7
19	10	6	1		SF	22	21	20	92	02	8
22	10	95	10			23	22	18	81	04	9

DEC 9th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	250	10			20	18	14	78	03	8
04	4	UNL	10			19	16	9	65	01	8
07	9	250	8			16	14	9	74	01	8
10	8	250	15			20	16	5	52	04	10
13	3	UNL	15			24	19	4	42	04	9
16	3	UNL	15			26	21	7	44	09	6
19	7	UNL	15			21	18	8	57	05	6
22	9	120	15			23	18	5	46	03	8

DEC 10th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	6	250	12			20	16	5	52	36	11
04	0	UNL	10			15	13	5	64	02	6
07	8	37	10			17	14	6	62	34	6
10	10	120	10			22	19	9	57	00	0
13	10	31	12			32	27	15	50	28	6
16	0	UNL	15			31	27	18	59	23	6
19	0	UNL	15			25	23	18	75	29	4
22	8	UNL	12			25	23	19	78	31	4

DEC 11th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	3	UNL	10			26	25	22	85	20	4
04	4	UNL	8			23	22	20	88	00	0
07	0	UNL	5		F	21	20	19	92	36	3
10	3	UNL	5		H	31	28	22	69	34	3
13	10	90	7			38	32	22	53	24	4
16	6	85	7			35	32	27	73	22	7
19	7	55	8			30	29	27	89	29	3
22	10	55	4		F	31	30	28	89	24	3

DEC 12th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	55	2	8	F	30	29	27	89	28	4
04	10	200	2	8	F	30	29	26	85	36	4
07	10	40	2		SF	32	31	28	85	29	3
10	10	5	0	4	SF	33	32	31	92	08	5
13	10	7	0	8	SF	33	33	32	96	02	6
16	10	13	1	8	SF	33	32	30	89	05	7
19	10	12	4		F	33	32	29	85	06	10
22	10	9	1		SF	31	31	30	96	03	7

DEC 13th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	5	0	12	SF	30	29	28	92	01	6
04	10	11	1	12	SF	29	28	26	89	01	8
07	10	65	5		F	28	27	24	85	02	7
10	10	60	9			29	26	19	66	03	9
13	3	UNL	10			34	29	18	52	03	7
16	7	41	10			32	27	18	56	34	4
19	10	55	7			29	27	24	82	26	5
22	10	49	8			26	24	19	75	31	6

DEC 14th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	8			19	18	15	84	34	5
04	0	UNL	8			17	16	14	88	30	4
07	0	UNL	5		F	14	13	11	88	31	3
10	0	UNL	5		H	21	19	15	78	00	0
13	0	UNL	8			30	25	15	54	26	6
16	0	UNL	8			29	26	18	64	21	6
19	3	UNL	7			24	22	17	75	00	0
22	2	UNL	8			22	21	18	85	25	5

DEC 15th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	5		F	20	19	17	88	00	0
04	0	UNL	7			17	15	9	71	29	6
07	8	200	7			21	17	7	55	32	7
10	10	200	10			26	21	5	41	02	5
13	9	200	10			29	23	8	41	12	6
16	10	100	10			29	25	16	58	10	9
19	10	80	10			34	31	27	76	11	11
22	10	9	4		SF	34	33	31	89	26	17

DEC 16th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			26	22	13	58	30	14
04	0	UNL	15			20	16	5	52	29	17
07	0	UNL	15			17	14	4	56	30	14
10	0	UNL	15			20	17	7	57	31	20
13	0	UNL	15			25	21	9	51	30	15
16	0	UNL	15			24	20	8	50	30	15
19	0	UNL	15			20	17	7	57	30	14
22	0	UNL	15			17	14	4	56	30	12

DEC 17th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			15	13	4	62	30	10
04	0	UNL	15			13	11	3	64	28	7
07	0	UNL	15			12	10	3	67	29	10
10	1	UNL	15			18	15	5	57	29	12
13	8	200	15			20	17	6	54	30	12
16	9	200	15			20	16	3	47	32	12
19	10	140	12			19	15	3	50	28	9
22	9	200	12			16	13	3	56	29	8

DEC 18th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	200	12			16	13	2	54	32	9
04	8	UNL	12			16	13	3	56	32	10
07	7	200	10			13	11	2	61	32	12
10	5	UNL	12			16	13	2	54	33	10
13	0	UNL	12			22	18	7	52	34	11
16	1	UNL	12			23	19	8	53	32	10
19	1	UNL	10			20	17	7	57	27	5
22	2	UNL	10			16	13	5	62	29	6

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SW SNOW SHOWERS
- SG SNOW GRAINS
- SP SNOW PELLETS
- IC ICE CRYSTALS
- IP ICE PELLETS
- IPW ICE PELLET SHOWERS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

CEILING: UNL INDICATES UNLIMITED
WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

DEC 19th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	2	UNL	10			13	11	5	70	30	3
04	6	UNL	10			13	11	5	70	27	5
07	9	90	7			13	11	5	70	01	3
10	10	110	10			22	18	8	55	04	5
13	10	80	10			25	21	9	51	06	4
16	10	65	8		S	24	20	10	55	14	4
19	10	43	7			25	21	10	53	00	0
22	10	29	7		S	24	21	13	63	00	0

DEC 20th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	7	65	8			22	20	14	71	31	6
04	0	UNL	7			17	16	12	81	29	5
07	0	UNL	7			17	15	11	77	32	7
10	0	UNL	10			25	22	13	60	31	14
13	0	UNL	10			28	24	14	56	31	14
16	0	UNL	10			26	22	11	53	31	8
19	0	UNL	10			23	19	7	50	26	6
22	0	UNL	10			19	16	5	54	30	6

DEC 21st

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	10			14	12	5	67	26	4
04	6	UNL	8			13	11	6	73	31	4
07	10	95	8			18	16	8	65	22	5
10	7	120	10			23	19	8	53	27	6
13	10	100	10			25	21	9	51	32	13
16	7	110	10			22	18	6	50	30	17
19	0	UNL	15			17	14	2	52	31	10
22	0	UNL	15			13	10	-3	48	32	15

DEC 22nd

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			9	6	-7	48	31	14
04	0	UNL	15			6	4	-7	55	31	14
07	0	UNL	15			6	4	-7	55	31	12
10	0	UNL	15			10	8	-4	53	30	11
13	1	UNL	15			15	12	0	51	31	17
16	7	UNL	15			17	13	0	47	32	12
19	0	UNL	15			11	9	-1	58	31	6
22	4	UNL	15			12	9	-2	53	32	10

DEC 23rd

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	3	UNL	15			8	6	-2	63	34	9
04	0	UNL	15			7	5	-4	60	35	9
07	0	UNL	15			5	4	-4	66	34	6
10	0	UNL	15			14	11	2	59	02	11
13	0	UNL	15			20	16	4	50	35	12
16	0	UNL	15			21	17	4	48	36	9
19	0	UNL	15			15	12	2	56	36	7
22	3	UNL	15			12	10	0	58	01	9

DEC 24th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	4	UNL	15			10	8	0	64	01	12
04	3	UNL	15			8	6	-1	66	01	9
07	1	UNL	15			7	5	-2	66	01	8
10	5	UNL	15			15	12	-1	49	01	11
13	8	UNL	15			20	16	2	45	02	12
16	10	200	15			21	17	5	50	36	9
19	9	200	15			19	15	4	52	33	9
22	3	UNL	15			12	10	2	64	32	7

DEC 25th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			11	9	3	70	24	5
04	4	UNL	15			9	8	2	73	24	6
07	5	UNL	15			9	7	1	70	24	3
10	10	120	12			19	16	5	54	28	3
13	9	120	15			25	20	8	48	24	6
16	10	120	15			25	21	9	51	22	8
19	10	65	15			25	21	11	55	23	8
22	10	60	15			25	22	14	63	20	6

DEC 26th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	55	12			26	23	16	66	22	4
04	10	41	10			26	23	16	66	23	5
07	10	75	7		S	24	23	21	88	23	7
10	10	47	8			27	26	23	85	24	7
13	10	35	12			33	29	23	67	27	13
16	0	UNL	15			29	24	11	47	30	18
19	0	UNL	15			20	16	1	43	30	16
22	0	UNL	15			16	12	-1	47	31	18

DEC 27th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	0	UNL	15			13	10	-2	51	31	11
04	0	UNL	15			10	8	-3	55	25	5
07	10	250	10			10	8	-1	61	30	5
10	6	120	15			15	12	0	51	00	0
13	10	85	15			19	15	0	43	16	6
16	10	80	15			20	16	3	47	19	8
19	10	55	3		S	19	18	14	81	17	7
22	10	55	4		S	20	19	17	88	14	4

DEC 28th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	45	7			20	19	18	92	00	0
04	10	110	7			20	19	17	88	30	3
07	2	UNL	7			18	17	13	81	29	7
10	10	39	6		H	23	22	18	81	32	4
13	10	41	8			32	28	21	64	30	8
16	2	UNL	10			34	30	21	59	29	7
19	0	UNL	10			30	27	20	66	28	5
22	0	UNL	10			27	24	16	63	34	4

DEC 29th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	1	UNL	10			24	22	18	78	36	4
04	5	UNL	8			20	19	16	84	32	3
07	10	UNL	6		F	19	18	16	88	00	0
10	10	110	4		H	29	26	20	69	00	0
13	10	200	9			33	28	18	54	09	6
16	10	110	8			34	29	20	57	04	5
19	10	120	8			33	29	20	59	07	8
22	10	120	8			32	28	21	64	08	5

DEC 30th

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	100	8			32	29	24	72	06	7
04	10	45	7		R	33	32	30	89	08	10
07	10	11	2		RF	33	32	30	89	06	7
10	10	7	1	8	F	35	34	32	89	04	6
13	10	9	2		F	35	34	32	89	03	6
16	10	9	3		F	33	32	30	89	03	7
19	10	9	4		F	32	31	28	85	04	6
22	10	7	3		F	31	30	28	89	05	6

DEC 31st

HOUR L.S.T.	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	AIR °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND DIRECTION	WIND SPEED (KNOTS)
01	10	4	3		F	31	30	29	92	08	5
04	10	4	2		ZRF	31	30	29	92	15	4
07	10	3	1	8	F	31	31	30	96	05	5
10	10	3	0	10	F	33	32	31	92	04	5
13	10	0	0	1	F	35	35	34	96	04	5
16	10	2	0	4	RF	39	39	38	96	15	8
19	10	1	0	2	F	42	42	42	100	24	5
22	10	1	0	4	RF	40	40	40	100	14	4

SUMMARY BY HOURS

HOUR L.S.T.	AVERAGES: SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE: AIR TEMP °F	WET BULB °F	DEW POINT °F	REL HUMIDITY %	WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	SPEED (MPH)
01	5	30.010	23	20	13	68	7.8	32	5.1
04	5	30.020	21	19	12	69	7.6	32	4.8
07	6	30.035	21	18	12	70	7.8	33	5.0
10	7	30.050	25	22	14	63	8.8	34	5.8
13	6	30.000	30	25	15	56	10.7	32	5.9
16	6	29.980	29	25	15	58	10.0	31	4.2
19	6	29.990	27	24	16	65	7.9	32	3.5
22	6	30.000	25	22	15	67	8.6	32	4.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DEC 1989
WILMINGTON, DE

13781

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
01										T	T	T													01
02																									02
03											T														03
04																								T	04
05	T	T																							05
06													T	0.01	0.01			T	T						06
07																									07
08									T	0.01	0.03	0.04	0.04	0.04	0.04	0.06	0.02	0.03	0.03	0.01	T	T			08
09																									09
10																									10
11																									11
12							T	T	0.01	0.01	0.01	0.02	0.03	0.01	T	T	T			T	0.01	0.04	0.03	0.04	12
13	0.02	0.03	0.01	0.01	T	T	T	T																	13
14																									14
15																		T	T		T	0.02	T	T	15
16																									16
17																									17
18																									18
19														T		T	T	T	T			T	T	T	19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26					T	T	0.01				T														26
27																		T	T	T	0.01	0.01	T		27
28																									28
29																									29
30			T	T	T	T	0.02	T																	30
31		T	T	T	T				T	T		T	0.01	0.04	0.09	0.03	T				0.01	0.05	0.12	0.20	31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.03	0.04	0.06	0.08	0.11	0.16	0.20	0.26	0.29	0.32	0.35	0.37
ENDED: DATE	31	31	31	31	31	31	31	31	31	31	31	31
ENDED: TIME	2350	2354	2354	2350	2354	2354	2354	2354	2354	2354	2354	2354

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

VALIDATED BY:
MATTHEW BODOSKY

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