JUL 1990
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

JUL 1990
WILMINGTON, DE

DATE 1	TEMPERATURE °F: MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65°F: HEATING (SEASON BEGINS WITH JUL) 7A	COOLING (SEASON BEGINS WITH JAN) 7B	WEATHER TYPES (1 FOG, 2 HEAVY FOG, 3 THUNDERSTORM, 4 ICE PELLETS, 5 HAIL, 6 GLAZE, 7 DUSTSTORM, 8 SMOKE, HAZE, 9 BLOWING SNOW) 8	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES 9	PRECIPITATION: WATER EQUIVALENT (INCHES) 10	SNOW, ICE PELLETS (INCHES) 11	AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L. 12	WIND (M.P.H.): RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	PEAK GUST DIRECTION 17	FASTEST 1-MIN SPEED 18	FASTEST 1-MIN DIRECTION 19	SUNSHINE: MINUTES 20	PERCENT OF TOTAL POSSIBLE 21	SKY COVER (TENTHS): SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	87	66	77	2	62	0	12		0	0.00	0.0	29.670	32	7.8	10.5	24	N	17	31			8	8
02	83	63	73	-2	59	0	8		0	0.00	0.0	29.840	35	5.6	11.5	22	N	18	04			5	4
03	87	63	75	0	61	0	10		0	0.00	0.0	29.945	23	9.6	10.2	20	SW	16	24			7	6
04	94	69	82	7	66	0	17		0	0.00	0.0	29.815	23	12.5	12.8	31	SW	21	24			4	3
05	98*	72	85*	10	72	0	20	1 3 5 8	0	2.43	T	29.740	27	7.6	10.2	48	NW	35	34			5	5
06	88	68	78	3	62	0	13		0	T	0.0	29.860	04	4.8	8.7	23	SE	16	13			3	6
07	80	65	73	-2	58	0	8		0	0.00	0.0	30.100	10	2.2	8.8	21	S	14	36			8	9
08	80	67	74	-2	64	0	9		0	0.00	0.0	30.130	16	11.4	11.8	29	S	21	16			9	9
09	95	73	84	8	73	0	19	1 3 8	0	0.23	0.0	29.900	23	7.4	9.4	37	NW	18	32			5	7
10	89	73	81	5	70	0	16	1 3 8	0	0.05	0.0	29.890	28	4.8	6.7	14	N	14	34			9	9
11	76	66	71	-5	61	0	6	1	0	0.10	0.0	29.960	05	8.2	10.1	23	N	16	04			9	9
12	81	63	72	-4	64	0	7	1 3 8	0	0.73	0.0	29.900	06	10.4	11.3	29	NE	21	05			10	10
13	65	60*	63*	-13	60	2	0	1	0	0.37	0.0	30.070	05	11.9	12.6	22	NE	16	05			10	10
14	79	64	72	-4	69	0	7	1	0	0.16	0.0	30.000	08	10.2	11.2	23	E	16	10			10	10
15	87	76	82	6	74	0	17	1 3	0	0.09	0.0	29.900	18	10.6	11.5	23	S	17	20			9	8
16	84	69	77	1	65	0	12	1 8	0	T	0.0	30.110	26	6.8	7.7	20	W	15	28			9	8
17	86	67	77	1	69	0	12	1 8	0	0.00	0.0	30.195	18	4.6	6.5	16	S	12	16			8	8
18	89	68	79	3	70	0	14	1 8	0	0.00	0.0	30.120	20	6.0	7.1	21	S	15	18			2	2
19	92	73	83	7	70	0	18	1 8	0	0.00	0.0	30.040	25	4.7	6.4	16	SW	12	23			3	3
20	91	73	82	6	70	0	17	1 3 8	0	T	0.0	29.920	23	7.9	9.0	29	SW	21	33			3	5
21	89	70	80	4	70	0	15	1 8	0	0.01	0.0	29.850	28	5.9	7.0	18	W	12	24			5	7
22	88	73	81	4	72	0	16	1 8	0	0.00	0.0	29.820	20	1.8	6.9	17	SE	13	15			6	6
23	92	74	83	6	72	0	18	1 3 8	0	0.09	0.0	29.770	27	5.8	10.3	24	NW	16	32			6	7
24	87	69	78	1	65	0	13		0	T	0.0	29.930	34	7.5	8.9	18	N	12	30			6	6
25	89	68	79	2	62	0	14		0	0.00	0.0	30.020	36	8.5	9.3	22	N	14	01			0	1
26	89	69	79	2	64	0	14		0	0.00	0.0	30.110	04	8.6	10.7	22	E	16	03			2	2
27	85	71	78	1	68	0	13	1	0	0.00	0.0	30.110	05	9.9	11.1	22	NE	18	04			6	5
28	84	70	77	0	67	0	12		0	0.00	0.0	30.050	05	11.3	12.2	32	E	21	06			8	6
29	85	72	79	3	69	0	14	1	0	0.01	0.0	29.960	07	7.0	10.2	22	NE	16	04			8	7
30	85	69	77	1	66	0	12	1 8	0	0.00	0.0	29.855	09	2.4	6.9	16	NE	12	14			7	6
31	86	68	77	1	68	0	12	1 3 8	0	T	0.0	29.770	30	3.1	8.5	26	S	20	30			8	6
	SUM	SUM	—	—	—	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:								TOTAL	% FOR MONTH	SUM	SUM
	2670	2131	—	—	—	2	395			4.27	T	29.950	34	0.6	9.5	48	NW	35	34			198	198
	AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.	—	—	—	—	—	DATE: 5		DATE: 5		POSSIBLE		AVG.	AVG.
	86.1	68.7	77.4	1.4	66.3	2	54	≥ .01 INCH.	11	0.37	—	—	—	—	—							6.4	6.4

NUMBER OF DAYS				SEASON TO DATE				GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
				TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH	0						
MAXIMUM TEMP.		MINIMUM TEMP.		2	691	THUNDERSTORMS	8	PRECIPITATION		SNOW, ICE PELLETS			
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG	0	2.43	05-06	trace	05	0	
6	0	0	0	2	115	CLEAR 6	PARTLY CLOUDY 11	CLOUDY 14					

* 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

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NATIONAL OCEANIC AND *ATMOSPHERIC ADMINISTRATION*

NATIONAL ENVIRONMENTAL SATELLITE, DATA *AND INFORMATION SERVICE*

NATIONAL CLIMATIC DATA CENTER *ASHEVILLE NORTH CAROLINA*

Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1990
WILMINGTON, DE
13781

JUL 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	10	250	7			78	71	67	69	33	6
04	8	250	7			76	69	65	69	27	6
07	10	250	7			76	69	65	69	29	10
10	7	250	9			81	71	66	60	32	13
13	4	UNL	10			86	70	61	43	31	15
16	10	95	15			82	68	60	47	36	10
19	10	UNL	12			76	66	59	56	02	11
22	6	85	15			72	63	57	59	02	7

JUL 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	2	UNL	15			66	60	55	68	34	8
04	2	UNL	10			64	59	55	73	34	8
07	0	UNL	15			70	63	58	66	36	10
10	6	36	15			76	65	58	54	04	16
13	7	80	15			78	66	58	50	31	13
16	4	UNL	15			81	66	57	44	01	12
19	3	UNL	15			76	68	63	64	17	14
22	1	UNL	10			68	65	63	84	20	7

JUL 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	2	UNL	10			66	62	60	81	20	4
04	7	50	8			65	62	59	81	22	8
07	7	90	7			70	63	59	68	23	7
10	5	UNL	10			79	70	65	62	21	10
13	4	UNL	10			85	69	59	42	26	12
16	8	UNL	10			86	70	61	43	24	14
19	10	UNL	10			82	69	62	51	24	8
22	7	UNL	10			75	67	63	66	21	8

JUL 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	3	UNL	10			72	68	66	82	21	9
04	3	UNL	8			70	66	64	81	22	8
07	9	UNL	8			74	67	63	69	23	11
10	8	UNL	15			84	72	65	53	23	12
13	3	UNL	10			89	73	65	45	24	17
16	0	UNL	7			93	75	66	41	25	16
19	0	UNL	7			88	73	66	48	22	12
22	0	UNL	7			84	73	68	59	23	9

JUL 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	0	UNL	7			81	74	71	72	26	8
04	0	UNL	7			80	73	70	72	23	11
07	0	UNL	4		H	83	75	72	70	25	7
10	3	UNL	3		H	91	80	76	62	26	9
13	5	UNL	3		H	96	81	76	53	31	11
16	10	47	2		TRW	73	71	70	90	24	5
19	10	100	5		F	75	72	71	87	22	9
22	10	110	4		F	74	73	72	94	35	8

JUL 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	10	110	7			72	65	61	69	32	9
04	10	55	8			70	66	63	79	35	5
07	3	UNL	10			74	65	60	62	05	9
10	0	UNL	15			79	67	60	52	04	6
13	0	UNL	15			84	70	63	49	30	4
16	3	UNL	15			85	70	61	45	12	4
19	10	90	10			81	69	62	53	05	12
22	10	32	10			71	65	62	73	10	10

JUL 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	10	43	10			72	65	60	66	08	5
04	10	80	10			67	60	54	63	36	8
07	6	UNL	15			69	59	52	55	36	8
10	5	UNL	15			74	64	57	56	06	8
13	7	80	15			78	65	57	49	18	7
16	10	80	15			78	66	59	52	23	4
19	10	70	12			75	65	59	58	22	6
22	10	75	10			71	66	63	76	13	10

JUL 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	6	80	10			68	64	61	78	18	7
04	10	65	10			68	64	62	81	18	4
07	10	50	8			70	66	64	81	15	6
10	10	85	15			76	68	63	64	16	15
13	7	UNL	15			79	67	60	52	17	17
16	10	39	15			77	69	65	67	16	14
19	10	33	15			74	70	67	79	15	11
22	10	34	12			75	71	69	82	17	10

JUL 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	8	13	8			74	71	70	87	18	7
04	7	UNL	6		F	73	71	70	90	22	4
07	10	15	4		F	77	74	73	88	19	6
10	0	UNL	4		H	85	78	75	72	23	11
13	0	UNL	4		H	90	79	75	61	22	12
16	4	UNL	4		H	93	79	74	54	24	10
19	10	100	4		H	76	73	72	88	26	4
22	10	200	5		FH	75	72	71	87	35	3

JUL 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	10	210	5		FH	74	72	71	90	26	5
04	4	UNL	8			73	71	70	90	26	6
07	10	UNL	3		F	77	74	72	85	28	5
10	10	100	8			83	72	66	57	34	12
13	10	100	9			85	72	65	51	32	4
16	9	100	7		T	85	74	68	57	17	5
19	9	110	3		F	79	76	74	85	26	3
22	2	UNL	2	12	F	75	74	73	94	25	5

JUL 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	1		F	72	71	71	97	28	5
04	10	120	15			72	68	66	82	02	6
07	10	100	8			75	65	58	56	07	8
10	10	50	7		R	69	64	61	76	34	12
13	10	55	10			72	65	60	66	04	14
16	10	110	10			73	64	58	60	06	12
19	10	110	15			72	64	58	62	08	8
22	10	35	12			71	64	59	66	08	8

JUL 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	24	10		RW	67	63	60	78	08	10
04	10	19	12			67	63	61	81	08	6
07	10	9	4		LF	68	66	64	87	09	6
10	10	19	3		H	72	69	67	84	05	8
13	10	19	5		H	79	73	70	74	08	7
16	8	UNL	3		H	76	71	68	76	05	15
19	10	8	3		H	67	64	62	84	04	18
22	10	12	4		RWH	64	62	61	90	05	12

JUL 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	13	3		RWF	62	61	60	93	02	12
04	10	25	5		RWF	61	59	58	90	04	14
07	10	9	6		RF	60	59	58	93	03	12
10	10	9	4		F	62	60	59	90	06	13
13	10	12	6		RF	64	62	60	87	05	14
16	10	10	2		LF	64	63	62	93	07	9
19	10	27	6		F	65	62	60	84	06	10
22	10	14	10			64	62	60	87	08	10

JUL 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	10	15	4		F	65	63	61	87	06	9
04	10	9	4		F	65	63	62	90	07	9
07	10	3	1		LF	65	64	64	97	06	9
10	10	3	0	12	F	68	67	67	97	06	10
13	10	8	2		RF	75	72	71	87	06	10
16	10	12	4		F	78	75	73	85	10	14
19	10	180	5		F	77	74	73	88	09	10
22	10	120	6		F	76	74	73	91	13	8

JUL 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	10	4	4		F	76	75	74	94	14	9
04	10	3	1		F	76	75	74	94	16	9
07	10	7	5		F	78	76	75	91	18	10
10	8	55	15			83	76	73	72	18	10
13	10	55	10			80	77	76	88	21	8
16	9	180	10			87	78	74	65	21	12
19	9	UNL	10			81	75	72	74	21	8
22	2	UNL	8		T	78	75	73	85	19	12

JUL 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	10	41	5		F	75	72	70	85	24	7
04	6	90	4		F	71	69	68	90	25	6
07	10	UNL	4		F	72	68	66	82	27	4
10	10	UNL	6		F	79	69	63	58	29	10
13	6	250	5		H	81	68	61	51	30	9
16	10	150	8			81	68	61	51	25	8
19	9	150	8			77	69	65	67	21	6
22	5	UNL	6		F	73	69	66	79	20	6

JUL 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	10	200	3		F	72	69	67	84	20	3
04	9	200	3		F	70	68	67	90	12	3
07	8	UNL	1	4	F	73	70	69	87	30	3
10	7	250	3		H	83	75	71	67	17	5
13	8	UNL	3		H	84	74	69	61	15	8
16	10	UNL	4		H	83	72	67	59	17	8
19	8	UNL	4		H	79	73	70	74	16	9
22	7	UNL	4		H	76	72	70	82	18	6

JUL 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	6	UNL	2	8	FH	73	71	70	90	24	5
04	3	UNL	1	12	FH	69	68	68	97	24	3
07	0	UNL	1	8	FH	74	72	71	90	00	0
10	2	UNL	5		H	85	75	71	63	24	9
13	2	UNL	7			88	74	68	52	19	11
16	4	UNL	5		H	86	76	72	63	18	13
19	0	UNL	5		H	81	74	71	72	17	10
22	0	UNL	4		H	78	75	73	85	18	4

WEATHER CODES

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

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

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)
					JUL 19th						
01	4	UNL	6		H	74	71	69	85	20	6
04	5	UNL	3		FH	73	72	71	94	00	0
07	10	3	2		FH	76	74	73	91	29	6
10	0	UNL	4		H	88	75	69	53	02	5
13	3	UNL	5		H	90	74	67	47	31	10
16	2	UNL	4		H	90	75	68	48	23	10
19	3	UNL	4		H	85	74	68	57	23	6
22	2	UNL	2		H	80	73	69	69	24	4
					JUL 20th						
01	7	UNL	2		H	75	72	71	87	23	5
04	8	UNL	2		FH	73	71	70	90	22	2
07	2	UNL	2		FH	76	73	71	85	18	6
10	0	UNL	5		H	85	76	72	65	21	10
13	1	UNL	7			89	77	71	55	24	10
16	4	UNL	8			89	76	70	54	24	12
19	3	UNL	10			84	75	71	65	24	7
22	7	120	8			74	70	67	79	29	8
					JUL 21st						
01	10	120	8			72	68	66	82	30	7
04	3	UNL	8			71	68	66	84	27	5
07	0	UNL	4		H	75	70	68	79	25	4
10	1	UNL	6		H	83	74	69	63	30	7
13	6	40	7			88	76	71	57	26	8
16	9	33	6		H	85	75	70	61	22	6
19	10	120	5		H	79	74	72	79	26	8
22	10	250	4		H	76	73	72	88	30	5
					JUL 22nd						
01	7	100	2		FH	75	72	71	87	08	3
04	10	7	1	12	FH	73	72	72	97	31	4
07	10	5	1		FH	75	73	72	90	02	6
10	10	18	2	12	H	81	75	72	74	29	4
13	4	UNL	5		H	86	75	70	59	24	6
16	3	UNL	4		H	88	76	70	55	26	6
19	3	UNL	4		H	81	76	74	79	15	11
22	5	UNL	5		H	79	76	75	88	15	7
					JUL 23rd						
01	10	250	4		FH	78	75	74	88	16	8
04	10	10	1		F	78	76	75	91	13	7
07	8	9	2		F	80	77	75	85	17	8
10	4	UNL	5		H	87	78	75	68	25	9
13	7	35	6		H	89	78	73	59	27	10
16	6	250	9			90	75	68	48	32	9
19	9	250	10			84	73	68	59	30	12
22	9	250	10			75	68	64	69	32	7
					JUL 24th						
01	10	110	8			74	68	65	74	34	8
04	10	95	8			72	66	63	73	35	8
07	4	UNL	10			70	66	64	81	34	7
10	10	UNL	10			80	70	65	60	04	10
13	4	UNL	15			83	71	64	53	02	8
16	6	120	15			82	72	66	59	30	10
19	7	55	10			81	71	65	58	33	7
22	0	UNL	10			76	69	65	69	32	7
					JUL 25th						
01	4	UNL	7			72	69	68	87	36	4
04	2	UNL	7			69	67	65	87	32	6
07	0	UNL	10			75	68	64	69	36	7
10	0	UNL	15			84	68	59	43	35	11
13	0	UNL	15			87	69	58	38	01	12
16	0	UNL	15			88	69	57	35	02	9
19	2	UNL	15			83	68	59	44	35	5
22	0	UNL	15			73	67	64	74	32	7
					JUL 26th						
01	4	UNL	8			72	65	60	66	34	6
04	0	UNL	8			71	64	60	68	01	9
07	0	UNL	9			75	66	61	62	36	10
10	0	UNL	10			83	70	63	51	02	12
13	5	UNL	10			87	72	64	46	03	14
16	6	100	10			86	72	65	50	07	7
19	1	UNL	10			83	72	66	57	11	9
22	0	UNL	15			76	70	67	74	09	7
					JUL 27th						
01	3	UNL	15			75	70	67	76	04	7
04	6	120	15			71	68	67	87	01	7
07	0	UNL	4		F	75	70	68	79	04	11
10	10	29	8			79	72	68	69	05	11
13	10	41	8			80	72	68	67	05	10
16	3	UNL	10			85	74	69	59	04	12
19	4	UNL	10			81	72	68	65	09	8
22	3	UNL	10			75	70	68	79	10	8
					JUL 28th						
01	0	UNL	10			73	69	67	82	05	4
04	3	UNL	10			71	68	67	87	03	8
07	10	39	8			73	70	68	84	02	11
10	10	23	10			79	71	67	67	04	15
13	7	30	10			83	72	67	59	03	12
16	5	UNL	10			83	72	66	57	07	12
19	6	110	10			78	70	66	67	08	8
22	4	UNL	10			74	70	67	79	07	5
					JUL 29th						
01	10	13	10			73	70	68	84	05	9
04	10	85	10			73	70	68	84	05	10
07	10	70	4		F	73	70	69	87	06	12
10	10	14	8			76	72	70	82	06	11
13	7	55	10			82	73	69	65	04	14
16	7	85	15			80	73	70	72	18	9
19	7	90	12			78	73	70	77	16	7
22	3	UNL	12			74	70	68	82	13	8
					JUL 30th						
01	0	UNL	10			72	69	67	84	13	4
04	10	20	8			72	68	65	79	06	5
07	2	UNL	5		H	74	68	65	74	06	7
10	10	26	5		H	76	70	66	71	06	7
13	10	50	5		H	82	72	66	59	03	6
16	4	UNL	5		H	83	72	66	57	32	5
19	3	UNL	5		H	78	70	66	67	18	5
22	7	230	7			74	71	69	85	15	10
					JUL 31st						
01	4	UNL	7			71	69	68	90	18	4
04	7	250	5		F	71	69	68	90	16	3
07	9	80	4		F	72	70	69	90	25	5
10	10	110	4		F	76	73	72	88	17	7
13	10	27	6		H	82	75	72	72	15	7
16	9	110	6		H	82	74	70	67	33	13
19	3	UNL	12			78	71	67	69	34	11
22	0	UNL	15			70	65	61	73	34	10

SUMMARY BY HOURS

HOUR L.S.T	AVERAGES: SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE: AIR TEMP °F	TEMPERATURE: WET BULB °F	TEMPERATURE: DEW POINT °F	REL HUMIDITY %	WIND SPEED (MPH)	RESULTANT WIND: DIRECTION	RESULTANT WIND: SPEED (MPH)
01	7	29.945	72	69	66	82	7.5	31	0.4
04	7	29.940	71	68	66	84	7.3	36	1.4
07	6	29.970	73	69	66	79	8.6	01	2.1
10	6	29.970	80	71	67	66	11.4	01	2.4
13	6	29.950	83	72	66	58	11.9	32	2.3
16	7	29.920	83	72	66	58	11.3	24	1.0
19	7	29.930	79	71	67	68	10.1	16	1.9
22	5	29.960	74	69	67	79	8.8	14	1.8

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUL 1990
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																									01
02																									02
03																									03
04																									04
05															0.01	2.37	0.03	0.02					T		05
06																				T					06
07																									07
08																									08
09																	T	0.23	T						09
10																	0.01	0.02	0.02						10
11							T	T	T	0.02	T	0.08													11
12	T					T	T	T												0.17	0.24	0.22	0.06	0.04	12
13	0.09	0.05	T	T	0.02	0.10	0.04	0.05	T		T	T	T	T	0.01	T	T				T	T	T	0.01	13
14					0.02	0.12	0.01	T	T	T			T	0.01											14
15											T	T	0.09	T			T							T	15
16	T																								16
17																									17
18																									18
19																									19
20																						T			20
21															T	T	0.01								21
22																									22
23			0.08	0.01																					23
24		T	T	T																					24
25																									25
26																									26
27																									27
28																									28
29							T	T	T	0.01															29
30																									30
31									T				T	T	T										31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.89	1.22	1.49	1.72	1.94	2.14	2.37	2.37	2.37	2.40	2.40	2.42
ENDED: DATE	05	05	05	05	05	05	05	05	05	05	05	05
ENDED: TIME	1536	1536	1540	1540	1540	1540	1540	1540	1540	1659	1659	1759

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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