

JUL 1986
WILMINGTON, DELAWARE
NAT'L WEA SER OFC
AIRPORT TERMINAL BLDG

ISSN 0198-117X

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

GREATER WILMINGTON AIRPORT

LATITUDE 39°40'

LONGITUDE 75°36'

ELEVATION (GROUND) 74 FEET

TIME ZONE EASTERN

13781



JUL 1986
WILMINGTON, DELAWARE

DATE	TEMPERATURE °F					DEGREE DAYS BASE 65°F		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		AVERAGE STATION PRESSURE IN INCHES ELEV. 80 FEET ABOVE M.S.L.	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)		DATE				
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINNS WITH JUL)	COOLING (SEASON BEGINNS WITH JAN)			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	FATEST MILE	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET		MIDNIGHT TO MIDNIGHT			
01	74	60	67	-8	56	0	2	1	0	0.03	0.0	29.960	15	3.6	8.1	12	17		10	10	01				
02	83	65	74	-1	66	0	9	1	0	1.67	0.0	29.605	28	3.6	8.7	15	33		10	10	02				
03	79	61	70	-5	53	0	5	1	0	0.00	0.0	29.810	32	8.9	9.6	17	33		3	3	03				
04	80	52*	66*	-9	53	0	1		0	0.00	0.0	30.070	21	4.9	8.7	15	21		4	3	04				
05	90	66	78	3	65	0	13	1	8	0.00	0.0	30.070	23	7.4	8.0	12	22		7	6	05				
06	94	69	82	7	68	0	17	1	8	0.00	0.0	30.080	27	5.6	7.0	13	30		6	6	06				
07	96*	73	85*	10	69	0	20		8	0.00	0.0	30.010	29	8.2	8.9	15	27		3	2	07				
08	91	74	83	7	62	0	18		8	0.00	0.0	29.935	31	5.5	8.7	17	02		2	3	08				
09	85	70	78	2	69	0	13	1	8	0	T	0.0	29.715	27	8.8	9.9	16	25		10	8	09			
10	83	65	74	-2	55	0	9			0.00	0.0	29.850	32	9.0	9.6	17	33		3	2	10				
11	79	66	73	-3	55	0	8			0.02	0.0	29.880	07	6.8	7.9	13	08		8	8	11				
12	90	68	79	3	69	0	14	1	8	0	T	0.0	29.790	15	0.4	6.8	10	26		8	7	12			
13	93	72	83	7	72	0	18	1	3	8	0	0.44	0.0	29.820	21	3.5	7.3	35	30		6	6	13		
14	88	69	79	3	63	0	14		8	0.00	0.0	29.880	29	9.7	10.3	18	30		5	4	14				
15	86	62	74	-2	57	0	9			0.00	0.0	30.000	29	5.6	7.6	16	26		2	1	15				
16	84	65	75	-1	66	0	10	1	8	0.09	0.0	30.010	04	3.3	5.7	13	05		10	8	16				
17	85	69	77	1	67	0	12	1	8	0.00	0.0	29.980	35	1.5	5.7	10	01		9	8	17				
18	91	71	81	5	72	0	16	1	3	8	0.24	0.0	29.860	31	5.4	7.7	16	36		9	8	18			
19	84	72	78	2	72	0	13	1	3	8	0.27	0.0	29.840	12	5.1	7.4	14	11		10	8	19			
20	82	70	76	0	71	0	11	1	3	8	0.14	0.0	29.790	17	5.5	8.1	17	30		10	10	20			
21	88	69	79	3	67	0	14	1	8	0	0.00	0.0	29.860	33	6.8	8.5	14	33		6	5	21			
22	88	66	77	0	66	0	12	1		0.00	0.0	30.070	16	2.1	7.8	13	18		5	4	22				
23	89	73	81	4	69	0	16	1	3	8	0.00	0.0	30.130	14	6.4	7.8	20	16		6	6	23			
24	86	69	78	1	68	0	13	1	8	0.00	0.0	30.115	16	8.9	10.1	21	16		3	2	24				
25	87	71	79	2	72	0	14			0	T	0.0	30.010	17	10.6	11.1	17	16		7	6	25			
26	86	68	77	0	74	0	12	1	3	0	1.09	0.0	29.880	17	8.2	9.7	25	19		9	9	26			
27	86	68	77	0	71	0	12	1	8	0.00	0.0	29.810	36	2.0	4.9	8	34		8	7	27				
28	90	71	81	4	72	0	16	1	8	0	T	0.0	29.750	35	3.0	5.1	9	03		4	4	28			
29	92	71	82	6	70	0	17	1	3	8	0	T	0.0	29.700	24	2.3	5.4	14	21		6	7	29		
30	84	69	77	1	65	0	12			0.00	0.0	29.730	31	8.0	8.8	14	34		3	3	30				
31	81	67	74	-2	65	0	9	1	8	0.00	0.0	29.810	36	5.9	8.7	14	36		4	3	31				
SUM		SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%		SUM					
267.4		2101					0	379			3.99	0.0	29.900	27	1.8	8.1	35	30		FOR	196	177			
AVG.		AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION		DEP.							DATE: 13	POSSIBLE	MONTH	AVG.	AVG.			
86.3		67.8	77.1	1.1	65.8	0	0	38	> .01 INCH.		9	0.09								6.3	5.7				
NUMBER OF DAYS								SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES						GREATEST DEPTH ON GROUND OF							
								TOTAL		> 1.0 INCH										SNOW, ICE PELLETS OR ICE AND DATE					
MAXIMUM TEMP.								0		735		PRECIPITATION		SNOW, ICE PELLETS											
> 90°								< 32°		< 0°		DEP.		DEP.		0						0			
9								0		0		0		159						CLEAR					
7								PARTLY		CLOUDY		12						CLOUDY							

OBSERVATIONS AT 3-HOUR INTERVALS

JUL 1986 13781
WILMINGTON, DELAWARE

HOUR L.S.T.	SKY COVER (TENTHS)		VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY		WEATHER	TEMPERATURE				WIND			
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF		WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET		WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES		16THS MILE	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
JUL 1st																																	
01	10	60	10		64	56	50	61	01	5		10	4	4	RF	66	65	65	97	14	4		10	70	10		70	63	59	68	01	5	
04	10	60	10		63	57	52	68	36	7		10	2	1	RF	66	65	65	97	33	3		0	UNL	10		63	61	60	90	29	4	
07	9	120	15		68	59	51	55	04	7		10	4	1	4	68	68	68	100	19	7		6	85	7	67	63	60	78	33	5		
10	10	55	15		72	60	50	46	10	8		10	10	2	8	73	71	70	90	23	10		6	85	10	74	64	57	56	34	13		
13	10	50	15		72	61	52	50	18	8		10	250	10		79	71	67	67	30	13		4	UNL	10	78	63	52	41	29	13		
16	10	48	12		71	64	59	66	18	9		9	250	12		83	72	66	57	30	12		3	UNL	15	77	60	47	35	31	14		
19	10	50	9		70	64	60	71	15	7		8	220	8		80	70	65	60	29	5		0	UNL	15	73	58	45	37	32	10		
22	10	18	9		69	65	62	79	14	7		10	48	7		73	68	65	76	03	5		0	UNL	15	64	55	48	56	27	3		
JUL 2nd																																	
JUL 3rd																																	
JUL 4th																																	
01	0	UNL	15		56	53	50	80	30	5		3	UNL	15		67	63	61	81	24	6		4	UNL	7	74	69	66	76	25	5		
04	0	UNL	12		53	51	49	86	32	7		2	UNL	10		67	65	64	90	26	6		4	UNL	5	F	69	68	67	93	00	0	
07	1	UNL	15		64	58	53	68	00	0		3	UNL	4	H	72	68	66	82	22	7		3	UNL	2	FH	74	71	70	87	29	7	
10	7	UNL	15		71	60	51	49	16	8		8	UNL	8		82	71	65	57	28	10		8	UNL	5	H	87	74	68	53	31	7	
13	4	UNL	15		76	64	56	50	16	12		8	UNL	8		88	72	64	45	23	8		10	UNL	6	H	92	74	65	41	27	8	
16	4	UNL	15		79	64	53	41	21	12		10	UNL	7		89	72	63	42	19	8		6	UNL	6	H	93	75	66	41	31	6	
19	5	UNL	15		74	67	63	69	17	6		10	UNL	8		84	70	63	49	23	7		3	UNL	4	H	89	74	67	48	25	7	
22	3	UNL	15		70	62	57	64	21	6		4	UNL	8		77	71	67	71	23	4		8	70	5	H	80	76	74	82	18	4	
JUL 5th																																	
JUL 6th																																	
JUL 7th																																	
01	5	UNL	3		76	72	70	82	30	6		0	UNL	6	H	79	72	68	69	29	6		10	95	10		80	72	68	67	24	5	
04	5	UNL	3		75	70	68	79	25	6		0	UNL	6	H	76	70	67	74	30	5		10	250	8		77	71	67	71	22	5	
07	4	UNL	2	8	78	72	69	74	28	6		0	UNL	9		80	71	67	65	35	9		10	100	5		79	72	69	72	29	8	
10	4	UNL	5		91	77	71	52	33	8		0	UNL	12		84	69	61	46	35	7		10	110	6		82	74	70	67	26	13	
13	2	UNL	6		93	78	71	49	30	10		0	UNL	12		89	69	57	34	35	5		10	100	8		83	74	70	65	25	12	
16	0	UNL	6		95	75	66	39	29	12		0	UNL	12		91	69	55	30	31	12		10	100	10		83	74	69	63	28	13	
19	0	UNL	5		91	75	68	47	27	6		10	250	12		87	71	62	43	24	5		10	120	12		74	70	68	82	29	7	
22	0	UNL	6		82	75	71	69	25	5		7	UNL	12		81	72	67	63	25	6		0	UNL	10		72	69	68	87	28	5	
JUL 8th																																	
JUL 9th																																	
JUL 10th																																	
01	0	UNL	7		71	69	68	90	31	8		5	UNL	10		68	62	58	71	34	4		10	11	10		68	63	59	73	10	7	
04	0	UNL	8		66	64	62	87	32	8		4	UNL	10		70	61	54	57	06	10		10	10	8		68	64	61	78	10	5	
07	3	UNL	15		71	63	57	61	33	15		4	UNL	10		71	60	52	51	07	8		10	3	1		69	68	68	97	05	5	
10	1	UNL	15		77	64	55	47	33	12		9	85	10		75	61	50	42	08	11		9	18	3		79	75	73	82	00	0	
13	6	UNL	15		81	63	50	34	35	10		10	55	10		76	62	51	42	07	8		9	36	6		87	77	73	63	03	5	
16	4	UNL	15		83	64	51	33	34	9		10	55	10		75	62	53	46	09	8		7	250	6		90	76	70	52	24	8	
19	3	UNL	15		79	63	51	38	32	5		10	120	8		70	64	60	71	11	6		2	UNL	7		85	76	72	65	21	8	
22	2	UNL	15		72	62	55	55	27	3		10	70	10		68	62	57	68	10	6		2	UNL	8		78	73	71	79	21	5	
JUL 11th																																	
JUL 12th																																	
JUL 13th																																	
01	4	UNL	6	H	75	72	70	85	11	4		6	120	7		76	74	73	91	27	5		0	UNL	10		69	61	55	61	35	7	
04	2	UNL	2	FH	73	72	71	94	14	3		0	UNL	7		72	69	68	87	28	7		0	UNL	10		64	59	56	75	27	7	
07	4	UNL	2	FH	76	73	72	88	07	4		0	UNL	6		76	71	68	76	27	7		3	UNL	12		70	62	57	64	28	6	
10	5	UNL	4	H	86	78	75	70	18	11		5	UNL	10		83	70	63	51	30	15		1	UNL	12		79	65	56	45	33	11	
13	5	UNL	10		93	77	70	47	25	11		6	250	10		88	70	59	38	32	16		1	UNL	15		83	65	53	36	26	14	
16	4	UNL	10		89	78	73	59	24	9		10	250	12		85	68	57	39	30	12		2	UNL	15		84	66	54	36	32	6	
19	10	44	8		78	76	75	91	33	3		5	UNL	10		82	68	59	46	28	6		0	UNL	15		82	67	58	44	25	6	
22	8	75	7		78	76	75	91	20	5		2	UNL	10		74	64	57	56	30	8		0	UNL	12		75	67	63	66	25	5	
JUL 14th																																	
JUL 15th																																	
JUL 16th																																	
01	0	UNL	10		72	66	63	73	07	3		10	5	2	8	70	69	69	97	34	5		4	UNL	3		75	72	71	87	26	5	
04	2	UNL	9		66	64	63	90	31	4		10	9	4	F	69	67	66	90	36	5		7	95	4		73	72	71	94	24	8	
07	10	65	4		70	68	66	87	33	4		10	7	2	F	70	68	66	87	35	6		8	UNL	1		76	73	72	88	29	6	
10	10	75	4		80	73	70	72	17	4		10	14	2	8	75	70	68	79	03	5		10	250	6		86	76	72	63	36	14	
13	10	250	6		83	71	64	53	02	4		10	31	4	H	80	71	67	65	32	4		10	35	6		88	77	73	61	32	7	
16	10	39	5		79	72	69	72	01	6		8	41	5	H	83	72	66	57	18	6		5	UNL	8		90	77	72	56	36	7	
19	10	70	2	8	72	69	68	87	05	11		3	UNL	5	H	81	72	67	63	19	6		10	100	8		77	76	75	94	01	4	
22	10	5	2		70	69	69	97	04	5		5	UNL	3	H	76	71	69	79	22	5		8	100	7		76	73	71	85	20	3	
JUL 17th																																	
JUL 18th																																	

JUL 1986 13781
WILMINGTON, DELAWARE

SUMMARY BY HOURS

HOUR	L.S.T	AVERAGES						RESULTANT WIND		
		SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
				AIR TEMP of	WET BULB of	DEW POINT of				
01	5	29.900	72	68	66	83	5.9	28	2.2	
04	5	29.890	70	67	65	86	6.0	30	2.1	
07	6	29.910	73	69	66	81	7.4	33	2.6	
10	7	29.920	80	71	66	64	9.9	33	1.4	
13	7	29.900	84	72	65	55	10.3	26	2.9	
16	9	29.870	84	72	65	54	11.1	25	3.2	
19	6	29.880	79	71	66	65	8.0	22	2.0	
22	5	29.900	75	70	67	78	6.1	20	1.8	

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JUL 1986 13781
WILMINGTON, DELAWARE

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	0.25	0.68	0.05	0.38	0.08	0.19	0.03	T	T											0.01	T	0.02	0.01	02	
03																								03	
04																								04	
05																								05	
06																								06	
07																								07	
08						T	T	T	T	T	T	T	T					T						08	
09																								09	
10																								10	
11																								11	
12					T	T	T						T		T	0.02	T							12	
13													T	T										13	
14														0.01		T	0.43					T		14	
15																								15	
16																								16	
17														T	T	T	T	0.02	0.04	0.03				17	
18																								18	
19	T	0.05	T	0.07													0.11	0.01				T		19	
20				0.18	T		0.01	T	T	T	T	T	0.01	T	T	0.07	T	T	0.09	0.05	T			20	
21																								21	
22																								22	
23																								23	
24																								24	
25																								25	
26																								26	
27																								27	
28																								28	
29																								29	
30																								30	
31																								31	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.12	0.21	0.31	0.38	0.49	0.54	0.68	0.68	0.77	0.93	0.93	1.11
ENDED: DATE	13	13	13	26	26	02	02	02	02	02	02	02
ENDED: TIME	1720	1720	1720	1143	1150	0219	0219	0159	0213	0159	0159	0420

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:
BILL CLAYTON

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325

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