

AUG 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

AUG 1990
WILMINGTON, DE

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)				
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)			WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)		RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	FASTEST 1-MIN SPEED	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	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	85	61	73	-3	55	0	8		0	0.00	0.0	29.920	33	10.2	10.9	24	NW	15	33		1	1	
02	86	59*	73	-3	54	0	8		0	0.00	0.0	30.030	32	5.6	8.0	18	NW	13	02		1	1	
03	90	65	78	2	60	0	13		0	0.00	0.0	30.000	29	4.5	7.1	14	NE	10	02		3	2	
04	90	67	79	3	62	0	14		0	0.00	0.0	29.975	25	5.1	6.1	15	W	12	27		10	9	
05	81	70	76	0	69	0	11	1 3	0	1.08	0.0	29.940	16	9.5	10.4	23	SE	17	16		10	10	
06	82	72	77	1	72	0	12	1 3 8	0	1.40	0.0	29.870	22	5.6	7.1	17	S	13	26		10	10	
07	84	68	76	0	67	0	11	1 8	0	0.00	0.0	29.940	32	5.7	6.7	18	NW	14	30		7	6	
08	86	65	76	0	63	0	11	1 8	0	0.00	0.0	30.060	34	3.7	5.2	14	N	9	32		9	7	
09	74	67	71	-5	66	0	6	1 8	0	0.35	0.0	30.075	35	5.0	6.0	15	NW	10	35		10	10	
10	81	67	74	-2	70	0	9	1 3 8	0	0.40	0.0	29.970	06	1.8	4.6	16	SE	10	09		10	10	
11	85	69	77	1	70	0	12	1 8	0	0.07	0.0	29.940	26	2.2	4.6	13	S	8	25		7	7	
12	88	67	78	2	67	0	13	1 8	0	0.00	0.0	30.035	25	2.7	3.8	12	SW	8	32		1	2	
13	89	69	79	4	70	0	14	1 3 8	0	0.14	0.0	29.950	19	6.3	6.8	21	S	14	20		3	4	
14	84	66	75	0	64	0	10	1 8	0	0.00	0.0	29.980	34	4.7	5.4	16	N	12	01		4	4	
15	85	64	75	0	66	0	10	1 8	0	0.00	0.0	30.010	20	1.6	3.6	16	S	10	14		6	4	
16	85	68	77	2	67	0	12	1 8	0	0.00	0.0	30.010	27	2.9	4.0	14	SW	10	28		8	5	
17	87	65	77	2	67	0	12	1 8	0	0.00	0.0	30.030	17	3.6	4.7	14	S	10	18		1	0	
18	86	68	77	2	69	0	12	1 8	0	0.00	0.0	29.985	18	5.8	6.2	17	SE	13	15		2	1	
19	87	65	76	1	69	0	11	1 8	0	0.1	0.0	29.930	07	4.6	8.4	32	NE	21	06		8	8	
20	66	62	64*	-11	59	1	0	1	0	0.03	0.0	30.080	05	13.3	13.7	30	NE	21	05		10	10	
21	69	63	66	-8	60	0	1	1	0	0.05	0.0	30.075	04	9.7	10.2	23	NE	18	04		10	10	
22	70	65	68	-6	64	0	3	1	0	0.48	0.0	30.040	06	11.4	11.5	24	NE	16	07		10	10	
23	75	65	70	-4	64	0	5	8	0	0.03	0.0	29.980	06	8.8	9.0	24	NE	16	08		10	10	
24	80	68	74	0	68	0	9	1 8	0	0.00	0.0	29.980	01	4.0	4.4	12	NE	7	36		10	9	
25	84	66	75	1	68	0	10	1 3 8	0	0.13	0.0	30.020	30	0.8	3.5	18	NE	10	18		8	6	
26	89	66	78	5	69	0	13	1 8	0	0.00	0.0	29.980	28	1.8	4.5	14	NW	8	30		4	3	
27	89	70	80*	7	70	0	15	1 8	0	0.02	0.0	29.840	30	7.0	7.6	20	W	13	26		1	1	
28	90*	68	79	6	68	0	14	1 8	0	0.00	0.0	29.740	27	5.5	6.7	23	NW	16	33		5	5	
29	87	64	76	3	65	0	11	23 8	0	1.97	0.0	29.690	26	2.0	6.1	60	NW	32	30		9	9	
30	83	61	72	-1	60	0	7	1	0	0.00	0.0	29.870	36	4.8	6.3	15	N	14	02		1	1	
31	83	61	72	0	59	0	7		0	0.00	0.0	30.080	15	3.1	4.2	14	S	10	17		2	2	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM				
2580	2042					1	304			6.15	0.0	29.970	35	1.2	6.7	60	NW	32	30		FOR	191	177
AVG.	AVG.	AVG.	AVG.	AVG.	AVG.	DEP.	DEP.	PRECIPITATION		DEP.						DATE: 29	DATE: 29	POSSIBLE	MONTH	AVG.	AVG.		
83.2	65.9	74.6	-0.2	65.1		1	0	≥ .01 INCH.	13	2.12											6.2	5.7	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF									
MAXIMUM TEMP.						MINIMUM TEMP.		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS		SNOW, ICE PELLETS OR ICE AND DATE									
≥ 90°		≤ 32°		≤ 32°		≤ 0°		HEAVY FOG		1		1.97		29		0.0							
3		0		0		0		3		115		CLEAR 10		PARTLY CLOUDY 6		CLOUDY 15							

* 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. Walden
DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1990
WILMINGTON, DE 13781

HOUR L.S.T.	SKY COVER (TENTHS)			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VIST-BILITY			WEATHER	TEMPERATURE				WIND										
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)									
AUG 1st																														
01	2	UNL	15		67	62	58	73	02	8	1	UNL	15		64	57	52	65	33	6	0	UNL	10		66	61	58	76	28	6
04	0	UNL	15		63	59	56	78	32	7	0	UNL	15		60	55	51	72	32	7	6	70	10		66	61	58	76	28	6
07	3	UNL	10		66	61	58	76	33	9	1	UNL	15		68	60	53	59	35	8	1	UNL	10		70	63	59	68	27	6
10	0	UNL	15		75	64	56	52	33	13	1	UNL	15		80	65	54	41	03	7	0	UNL	15		86	69	59	40	02	8
13	0	UNL	15		81	65	55	41	34	13	3	UNL	15		84	65	52	33	06	6	5	UNL	15		87	70	60	40	02	9
16	1	UNL	15		84	65	53	35	33	13	2	UNL	15		85	66	53	33	33	5	3	UNL	15		88	69	58	36	26	4
19	0	UNL	15		78	64	54	44	33	9	0	UNL	15		80	65	54	41	31	3	2	UNL	12		82	70	63	53	25	7
22	0	UNL	15		69	60	54	59	35	7	0	UNL	15		71	64	59	66	24	7	0	UNL	12		74	67	63	69	26	5
AUG 2nd																														
AUG 3rd																														
AUG 4th																														
AUG 5th																														
AUG 6th																														
AUG 7th																														
AUG 8th																														
AUG 9th																														
AUG 10th																														
AUG 11th																														
AUG 12th																														
AUG 13th																														
AUG 14th																														
AUG 15th																														
AUG 16th																														
AUG 17th																														
AUG 18th																														

WEATHER CODES

- | | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> * TORNADO T THUNDERSTORM Q SQUALL R RAIN RW RAIN SHOWERS ZR FREEZING RAIN L DRIZZLE | <ul style="list-style-type: none"> ZL FREEZING DRIZZLE S SNOW SW SNOW SHOWERS SG SNOW GRAINS SP SNOW PELLETS IC ICE CRYSTALS IP ICE PELLETS | <ul style="list-style-type: none"> IPW ICE PELLET SHOWERS A HAIL F FOG IF ICE FOG GF GROUND FOG BD BLOWING DUST | <ul style="list-style-type: none"> 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

AUG 1990
WILMINGTON, DE 13781

HOUR L.S.T.	AUG 19th						AUG 20th						AUG 21st																		
	SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE			WIND			SKY COVER (TENTHS)	VISI-BILITY		TEMPERATURE			WIND						
		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %		DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF		DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %
01	4	UNL	10		72	71	70	94	20	5	10	13	15		63	60	58	84	04	12	10	19	10		64	61	58	81	36	6	
04	10	110	8		72	71	70	94	19	4	10	12	15		62	59	57	84	03	10	10	17	10		63	60	58	84	02	9	
07	4	UNL	5		75	72	71	87	19	5	10	14	15		63	60	57	81	06	15	10	20	10		64	59	56	75	03	9	
10	6	95	5	FH	82	76	73	74	16	4	10	19	7		64	61	58	81	05	17	10	16	10		65	61	58	78	01	10	
13	7	33	5	H	85	77	73	67	18	2	10	15	5	RF	64	62	61	90	05	11	10	17	12		68	63	60	76	05	9	
16	10	100	4	H	81	74	71	72	06	8	10	15	5		64	62	60	87	05	13	10	13	8		67	63	61	81	02	9	
19	10	13	7		70	67	65	84	06	18	10	16	6		64	61	58	81	06	12	10	9	7		67	64	62	84	06	8	
22	10	13	15		66	63	61	84	08	13	10	19	12		64	61	58	81	05	12	10	24	7	R	66	64	63	90	06	11	
AUG 22nd						AUG 23rd						AUG 24th																			
01	10	24	5	RF	66	65	64	93	06	11	10	20	10		67	64	62	84	08	14	10	12	6	H	69	67	66	90	02	6	
04	10	7	2	RF	66	65	64	93	06	11	10	100	8	R	65	63	62	90	06	9	10	7	10		68	66	65	90	06	5	
07	10	9	4	RF	66	65	64	93	06	12	10	13	8		66	64	62	87	06	10	10	7	6	F	69	67	66	90	36	4	
10	10	9	5	RF	67	65	64	90	08	10	10	13	7		69	65	63	81	06	11	10	10	6	H	73	70	68	84	35	4	
13	10	65	2	RF	67	66	66	97	06	10	10	15	6	H	72	68	65	79	07	6	10	15	8		75	70	68	79	35	6	
16	10	70	6	RF	69	68	67	93	06	13	10	17	6	H	73	69	66	79	07	7	10	38	9		78	72	69	74	06	3	
19	10	110	10		68	66	64	87	06	8	10	15	4	H	71	69	68	90	06	5	10	19	10		75	72	70	85	01	4	
22	10	85	8		67	64	62	84	06	5	10	20	5	H	70	68	66	87	06	5	10	37	7		71	70	69	93	00	0	
AUG 25th						AUG 26th						AUG 27th																			
01	1	UNL	7		68	67	67	97	01	4	0	UNL	10		67	66	65	93	00	0	0	UNL	6	F	72	70	69	90	28	5	
04	6	120	5	F	67	66	66	97	00	0	0	UNL	6		67	66	65	93	00	0	0	UNL	3	F	71	69	68	90	31	7	
07	9	120	4	F	70	69	68	93	00	0	4	UNL	2		70	69	68	93	28	6	0	UNL	2	F	74	71	69	85	32	5	
10	8	100	7		79	73	70	74	10	4	0	UNL	4	H	85	75	71	63	04	7	0	UNL	5	H	83	74	69	63	32	8	
13	8	27	6	TH	79	74	71	77	18	9	5	UNL	9		85	75	71	63	14	7	1	UNL	4	H	88	76	71	57	32	10	
16	10	27	8	T	76	68	64	67	05	8	5	UNL	8		86	76	71	61	17	3	1	UNL	3	H	88	77	73	61	26	11	
19	8	250	7		74	70	67	79	27	3	1	UNL	6	H	81	74	70	69	30	5	5	UNL	3	H	82	77	75	79	29	5	
22	3	UNL	7		69	67	66	90	00	0	7	70	5	H	77	73	71	82	30	4	0	UNL	4	H	77	73	71	82	30	5	
AUG 28th						AUG 29th						AUG 30th																			
01	0	UNL	5	H	73	70	68	84	27	5	10	220	10		76	67	62	62	35	6	7	70	3	F	66	65	65	97	32	5	
04	0	UNL	5	H	70	67	65	84	27	5	7	90	10		71	65	61	71	18	7	0	UNL	8		63	62	62	97	33	6	
07	8	250	4	FH	72	69	67	84	22	5	8	UNL	10		72	66	62	71	00	0	0	UNL	12		65	62	60	84	36	8	
10	4	UNL	6	H	83	74	70	65	28	8	10	UNL	15		80	70	65	60	24	7	0	UNL	15		76	66	59	56	01	9	
13	5	UNL	10		88	74	67	50	29	9	6	250	8		86	74	69	57	27	4	1	UNL	15		80	65	56	44	35	10	
16	0	UNL	12		89	74	67	48	30	8	10	45	4	TRWF	71	68	66	84	32	4	3	UNL	15		80	66	57	45	06	4	
19	4	UNL	12		83	74	69	63	22	6	10	8	0	TRWF	64	63	62	93	03	13	0	UNL	15		76	65	58	54	00	0	
22	8	UNL	7		79	75	73	82	21	5	10	50	1	F	67	67	67	100	19	4	0	UNL	15		72	66	63	73	14	7	
AUG 31st																															
01	0	UNL	15		66	64	63	90	14	4																					
04	1	UNL	15		63	62	61	93	00	0																					
07	0	UNL	8		67	64	62	84	33	3																					
10	0	UNL	15		78	66	58	50	14	6																					
13	1	UNL	15		82	66	55	40	12	5																					
16	4	UNL	15		81	65	55	41	13	4																					
19	4	UNL	12		75	66	60	60	18	6																					
22	3	UNL	12		69	63	59	71	19	3																					

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	AVERAGES				RESULTANT WIND		
			TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	5	29.960	69	66	65	86	5.7	35	1.4
04	5	29.955	67	65	64	89	4.9	33	1.5
07	6	29.990	70	67	65	84	5.8	36	2.2
10	6	29.995	78	70	66	67	9.0	01	3.2
13	6	29.970	81	71	65	61	9.3	05	0.4
16	6	29.950	80	70	65	63	7.9	34	0.3
19	6	29.950	76	69	65	72	7.2	36	1.1
22	5	29.980	72	68	66	83	5.9	14	1.2

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

AUG 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																								05	
06	0.18	0.14	0.11	T																				06	
07																								07	
08																								08	
09																								09	
10	T	0.01	0.01	T	0.02	T	0.04	0.01	T	T														10	
11	0.05	0.01									0.01													11	
12																								12	
13																								13	
14																								14	
15																								15	
16																								16	
17																								17	
18																								18	
19																								19	
20																								20	
21																								21	
22	0.04	0.02	0.12	0.03	0.03	T	0.01	T	T	T	0.04	0.04	0.07	0.04	0.01	0.02	T							22	
23		0.01	0.01	0.01	T	T	T																	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)	0.39	0.72	0.93	1.10	1.19	1.21	1.21	1.21	1.24	1.29	1.35	1.36
ENDED: DATE	29	29	29	29	29	29	29	29	29	29	29	29
ENDED: TIME	1847	1851	1856	1901	1905	1905	1905	1905	1925	1959	1905	1905

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:
DON GRISINGER

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