

SEP 1993
WILMINGTON, DE
NAT'L WEA SER OFC
AIRPORT TERMINAL BLDG

ISSN 0198-117X

INQUIRIES/COMMENTS CALL
(704) 271-4800

LOCAL CLIMATOLOGICAL DATA Monthly Summary



GREATER WILMINGTON AIRPORT

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

SEP 1993
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 BEGINNS WITH JUL)	COOLING (SEASON BEGINNS WITH JAN)	WATER EQUIVALENT (INCHES)			SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.		RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	FATEST 1-MIN	DIRECTION	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT				
01	93	72	83	11	72	0	18	1	8	0	0.00	0.0	29.880	35	6.4	6.8	18	NW	13	32			7	7			
02	91	74	83	11	73	0	18	1	8	0	0.00	0.0	29.980	14	4.8	7.2	15	S	12	17			7	8			
03	97*	79	88*	16	74	0	23			0	0.00	0.0	29.855	22	10.1	11.5	28	S	17	21			8	9			
04	84	69	77	5	70	0	12			0	0.05	0.0	29.770	29	5.2	6.5	21	NW	13	34			10	9			
05	87	65	76	5	61	0	11	1		0	0.00	0.0	29.870	33	6.3	6.9	20	NW	12	32			6	5			
06	89	60	75	4	60	0	10			0	0.00	0.0	29.955	28	1.9	5.3	14	SW	9	21			0	0			
07	86	67	77	6	67	0	12	1	8	0	0.00	0.0	29.970	14	1.9	5.0	16	E	10	15			9	7			
08	77	65	71	0	67	0	6	1	3	8	0.28	0.0	29.900	04	6.7	7.6	14	E	12	07			10	8			
09	82	65	74	4	69	0	9	1	3	8	1.28	0.0	29.780	15	4.3	7.3	45	S	24	20			8	9			
10	83	62	73	3	60	0	8	1	3		0.40	0.0	29.650	28	10.3	12.0	32	W	18	27			5	5			
11	71	52	62	-8	44	3	0			0	0.00	0.0	29.970	31	10.1	10.6	30	NW	21	33			2	1			
12	76	48	62	-7	51	3	0			0	0.00	0.0	30.160	17	5.7	8.1	20	S	15	18			8	5			
13	87	62	75	6	60	0	10			0	0.00	0.0	30.200	19	7.6	8.1	20	S	13	17			3	2			
14	88	63	76	7	65	0	11			0	0.00	0.0	30.120	21	8.5	8.9	23	SW	16	23			7	5			
15	91	69	80	11	69	0	15	1		0	0.11	0.0	29.950	22	6.7	9.5	28	NW	20	33			1	4			
16	71	62	67	-1	63	0	2	1		0	0.01	0.0	30.070	05	10.4	10.9	21	NE	17	02			10	10			
17	65	60	63	-5	61	2	0	1		0	1.85	0.0	30.070	05	8.3	8.7	18	NE	13	03			10	10			
18	70	60	65	-2	64	0	0	1	8	0	0.52	0.0	29.930	01	4.8	5.4	12	N	8	36			10	8			
19	73	54	64	-3	50	1	0	1		0	0.00	0.0	30.020	35	8.7	9.6	22	NW	16	36			1	1			
20	68	44	56	-11	41	9	0			0	T	0.0	30.120	06	3.6	6.7	16	NE	12	03			10	8			
21	70	60	65	-1	61	0	0	1	8	0	0.20	0.0	29.960	18	3.1	6.8	20	S	13	19			10	10			
22	69	54	62	-4	58	3	0	1		0	0.00	0.0	30.040	35	6.4	7.0	16	NW	14	36			10	8			
23	75	52	64	-2	61	1	0	1	8	0	T	0.0	29.930	23	4.9	6.4	21	SW	15	20			10	8			
24	73	54	64	-1	50	1	0	1		0	T	0.0	30.010	35	7.8	8.3	23	N	15	36			2	4			
25	71	52	62	-3	54	3	0	1		0	0.44	0.0	30.020	15	3.4	6.4	18	S	13	17			9	10			
26	83	59	71	7	68	0	6	1	3	8	0.66	0.0	29.750	22	6.3	8.9	24	SW	17	22			7	7			
27	82	57	70	6	64	0	5	2		0	0.46	0.0	29.700	24	2.8	8.3	58	NW	35	30			10	7			
28	67	51	59	-4	45	6	0			0	0.00	0.0	29.880	24	9.6	10.3	26	W	18	27			2	1			
29	66	46	56	-7	44	9	0			0	0.00	0.0	30.030	31	6.4	7.5	21	NW	14	32			3	2			
30	61	40*	51*	-12	43	14	0			0	T	0.0	30.100	34	7.6	8.1	25	N	18	34			8	6			
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS			TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM						
2346	1777					55	176				6.26	0.0	29.955	29	1.6	8.0	58	NW	35	30			FOR	203	184		
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION			DEP.						DATE: 27	DATE: 27	POSSIBLE	MONTH			AVG.	AVG.			
78.2	59.2	68.7	0.7	59.6	20	51	20	2.01 INCH.		12	2.83												6.8	6.1			
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF												
						TOTAL	TOTAL	> 1.0 INCH							SNOW, ICE PELLETS OR ICE AND DATE												
MAXIMUM TEMP.		MINIMUM TEMP.		55		1365		THUNDERSTORMS		5		PRECIPITATION		SNOW, ICE PELLETS													
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		1		2.21		17-18		0.0							
4		0		0		0		20		334		CLEAR		8		PARTLY CLOUDY		6		CLOUDY		16					

* 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.

FUNNEL CLOUD OBSERVED DAY 27.

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

SEP 1993
WILMINGTON, DE

13781

HOUR L.S.T.	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	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)
SEP 1st																						
01	10	UNL	8		F	74	73	73	97	35	5	8	80	10			76	71	68	76	36	4
04	10	UNL	6		F	75	74	74	97	34	4	10	100	10			74	71	70	87	35	4
07	10	200	4		F	75	74	74	97	34	4	10	120	6	H		78	73	71	79	07	4
10	6	UNL	9			86	78	74	68	36	5	10	140	7			83	77	74	74	12	6
13	1	UNL	9			91	78	72	54	36	7	10	UNL	8			90	79	75	61	15	6
16	7	100	9			89	77	71	55	32	9	3	UNL	6	H		90	78	73	58	16	9
19	9	75	4		H	82	75	71	69	32	6	10	UNL	6	H		83	77	74	74	16	7
22	7	120	7			78	73	70	77	01	6	10	UNL	5	F		80	79	78	94	14	8
SEP 2nd																						
SEP 3rd																						
SEP 4th																						
SEP 5th																						
SEP 6th																						
SEP 7th																						
SEP 8th																						
SEP 9th																						
SEP 10th																						
SEP 11th																						
SEP 12th																						
SEP 13th																						
SEP 14th																						
SEP 15th																						
SEP 16th																						
SEP 17th																						
SEP 18th																						

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.20	0.32	0.39	0.46	0.59	0.75	1.05	1.19	1.19	1.20	1.27	1.28
ENDED: DATE	09	09	09	09	09	09	09	09	09	09	09	09
ENDED: TIME	2317	2320	2325	2330	2336	2336	2326	2336	2336	2336	2336	2359

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.

OBSERVATIONS AT 3-HOUR INTERVALS

SEP 1993 WILMINGTON, DE 13781

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND																																												
	0-100	100-200	200-300	WHOLE MILES	1/16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																											
																							0-100	100-200	200-300	WHOLE MILES	1/16THS MILE	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/16THS MILE																																			
SEP 19th																						SEP 20th																						SEP 21st																					
01	0	UNL	7			59	58	57	93	02	7	0	UNL	12			52	46	40	64	02	8	10	45	12							62	58	55	78	19	10																												
04	0	UNL	8			55	54	53	93	33	6	0	UNL	12			46	43	39	77	36	7	10	22	7	R						60	58	57	90	18	10																												
07	0	UNL	7			57	55	53	87	29	3	9	UNL	15			47	42	36	66	01	6	10	10	5	RF					61	60	60	97	19	8																													
10	0	UNL	15			67	59	53	61	35	12	9	UNL	20			58	49	39	49	07	9	10	10	5	F					64	63	62	93	18	8																													
13	1	UNL	15			72	61	52	50	35	12	10	200	20			67	53	40	37	06	4	10	9	5	F					68	66	64	87	25	4																													
16	1	UNL	15			72	59	48	43	33	13	10	45	15			64	52	39	40	26	3	10	27	5	F					69	65	63	81	04	3																													
19	0	UNL	15			61	55	49	65	35	7	10	50	15			63	53	44	50	12	5	8	250	6	F					67	65	64	90	00	0																													
22	0	UNL	12			57	50	42	58	02	7	10	55	12			61	55	50	67	15	9	10	35	5	F					65	64	63	93	36	4																													
SEP 22nd																						SEP 23rd																						SEP 24th																					
01	10	29	2	8	F	64	63	63	97	36	7	0	UNL	3	F	54	54	54	100	31	3	10	120	3	F					67	66	65	93	35	8																														
04	10	10	4	F	63	62	61	93	35	5	7	0	UNL	2	8	F	53	53	52	96	00	0	0	UNL	15							61	58	55	81	36	10																												
07	10	32	6	F	62	60	59	90	36	5	10	130	2	8	F	58	56	55	90	00	0	0	UNL	20								57	52	47	69	35	7																												
10	10	15	8		65	61	58	78	03	8	8	10	31	3	F	69	65	63	81	21	8	1	UNL	20								63	54	46	54	34	12																												
13	10	27	7		67	61	57	70	31	9	9	70	3	H	75	69	65	71	21	11	2	UNL	20									70	57	45	41	34	8																												
16	10	32	7		67	61	56	68	36	9	10	250	4	H	74	68	65	74	24	9	3	UNL	20									73	58	45	37	01	5																												
19	0	UNL	8		62	59	56	81	34	3	10	55	5	H	71	67	65	81	24	6	6	UNL	20									64	55	48	56	35	3																												
22	3	UNL	7		58	57	56	93	01	4	10	48	6	H	69	67	65	87	30	4	10	220	12									59	55	52	78	35	5																												
SEP 25th																						SEP 26th																						SEP 27th																					
01	10	150	12			53	52	51	93	33	5	10	5	4	RLF	60	59	59	97	10	10	5	UNL	3	F					70	69	69	97	00	0																														
04	10	150	12			52	51	50	93	00	0	10	7	4	F	68	68	68	100	19	12	1	UNL	1	F						67	66	66	97	36	5																													
07	10	150	10			54	53	52	93	34	3	10	5	4	RHF	69	68	68	97	27	8	10	3	0	12	F					70	69	69	97	08	8																													
10	8	200	10			67	60	54	63	14	5	10	8	4	F	70	69	68	93	22	12	10	13	1	12	F					75	74	73	94	15	4																													
13	9	120	10			71	59	50	48	16	9	7	150	4	H	80	74	71	74	22	14	7	50	10								81	75	72	74	20	10																												
16	10	100	10			67	61	57	70	16	8	0	UNL	7	H	82	74	70	67	24	10	10	60	8							62	61	60	93	34	5																													
19	10	55	7	R	59	58	57	93	16	8	8	130	7		76	72	70	82	00	0	8	250	10								62	61	60	93	23	5																													
22	10	47	8			58	56	55	90	00	0	2	UNL	7		74	71	70	87	18	4	10	65	10							62	58	55	78	25	10																													
SEP 28th																						SEP 29th																						SEP 30th																					
01	0	UNL	15			54	48	41	62	25	9	1	UNL	20			53	51	49	86	30	6	8	110	20					47	46	44	89	36	5																														
04	0	UNL	15			52	47	42	69	24	10	0	UNL	20			49	47	45	86	31	5	10	60	20						49	47	45	86	33	8																													
07	0	UNL	20			53	49	45	74	25	8	0	UNL	20			52	49	46	80	28	6	10	50	15						49	48	47	93	34	7																													
10	5	UNL	20			60	52	45	58	27	13	2	UNL	15			62	53	44	52	25	9	9	65	15						57	52	47	69	35	7																													
13	2	UNL	20			65	55	45	49	22	14	5	UNL	15			62	52	41	46	34	8	8	95	15						60	52	44	56	36	14																													
16	0	UNL	20			67	55	44	44	22	10	2	UNL	20			65	53	41	42	36	10	6	65	15						56	48	40	55	34	16																													
19	1	UNL	20			60	53	47	62	22	6	3	UNL	20			55	50	44	67	29	5	0	UNL	15						49	45	40	71	33	4																													
22	0	UNL	20			57	52	48	72	26	7	1	UNL	20			51	48	44	77	00	0	0	UNL	15						43	42	41	93	32	7																													

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	6	29.950	64	62	60	86	6.6	34	2.3
04	5	29.945	63	61	59	88	7.1	31	1.8
07	7	29.970	64	62	60	87	6.3	32	1.6
10	7	29.980	71	65	61	71	9.5	29	1.9
13	7	29.950	76	66	60	60	10.8	26	2.9
16	6	29.930	75	66	59	61	10.2	27	2.0
19	6	29.940	69	64	60	73	6.5	21	1.4
22	5	29.970	66	62	59	81	6.6	32	1.9

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: 1.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).

