

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 1987
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	WIND (M.P.H.)			SUNSHINE		SKY COVER (TENTHS)							
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEN 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	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	50	34	42	2	34	23	0		0.00	0.0	29.470	26	8.1	9.0	17	W	13	27			8	8	
02	44	31	38	-2	24	27	0		0.00	0.0	29.750	28	11.9	12.5	31	W	20	31			4	5	
03	44	26	35	-4	26	30	0		0.06	0.0	29.830	19	5.3	7.0	23	S	17	20			10	8	
04	45	36	41	-2	37	24	0	1	0.0	0.0	29.520	35	6.6	9.8	24	NW	16	32			10	9	
05	41	31	36	-2	22	29	0		0.0	0.0	29.780	31	14.4	14.7			22	30			7	7	
06	44	32	38	0	24	27	0		0.00	0.0	30.080	30	12.8	13.4			22	32			5	5	
07	47	25	36	-2	24	29	0		0.00	0.0	30.330	29	5.3	6.5			10	30			1	3	
08	48	31	40	3	30	25	0	1	0.00	0.0	30.280	22	3.7	5.2	14	SW	12	22			10	8	
09	62*	31	47	10	42	18	0		0.02	0.0	29.950	21	5.2	5.7	30	S	20	22			6	5	
10	58	38	48	11	43	17	0	2	0.12	0.0	29.770	32	2.4	4.7	14	NW	9	32			9	7	
11	52	40	46	9	38	19	0	1	0.23	0.0	29.570	30	5.4	8.2	16	W	13	30			4	7	
12	57	39	48	12	35	17	0	1	0.0	0.0	29.470	26	7.5	9.1	24	NW	16	29			1	4	
13	47	33	40	4	24	25	0		0.00	0.0	29.910	28	8.7	9.2	33	NW	17	30			2	1	
14	45	34	40	4	25	25	0		0.0	0.0	30.170	30	6.3	6.9	30	NW	12	32			7	8	
15	54	35	45	10	40	20	0	1	0.66	0.0	29.730	13	2.2	8.7	23	NW	21	29			10	9	
16	44	34	39	4	24	26	0		0.00	0.0	29.510	28	13.6	14.1	41	W	25	31			8	5	
17	40	30	35	0	22	30	0		0.0	0.0	29.895	32	14.5	14.7	37	NW	21	33			7	7	
18	38	27	33	-2	17	32	0		0.00	0.0	30.210	31	6.7	7.7	25	N	15	29			4	2	
19	47	29	38	4	27	27	0		0.00	0.0	30.150	25	3.3	6.6	22	NW	15	30			9	8	
20	55	37	46	12	44	19	0	1	0.23	0.0	29.910	20	5.5	8.3	22	SW	14	22			10	10	
21	50	33	42	8	30	23	0	1	0.00	0.0	30.000	28	7.3	9.1	26	NW	16	31			10	9	
22	45	24	35	1	28	30	0		0.02	0.0	29.970	19	1.6	5.3	16	SE	10	17			7	7	
23	48	32	40	6	33	25	0	1	0.0	0.0	30.125	30	4.4	5.6	24	NW	14	32			4	5	
24	51	29	40	7	37	25	0	1	0.00	0.0	30.240	16	4.4	6.0	22	S	15	16			1	4	
25	58	44	51*	18	51	14	0	2	0.13	0.0	29.930	23	3.8	5.5	22	SW	13	25			10	10	
26	54	31	43	10	38	22	0	1	0.16	0.0	30.050	01	7.0	7.5	22	N	13	01			10	8	
27	42	27	35	2	25	30	0		0.00	0.0	30.210	29	3.6	4.9	15	NW	9	30			10	8	
28	38	32	35	2	29	30	0	1	0.18	1.1	30.040	04	4.5	6.1	18	NE	10	07			10	10	
29	32	18	25	-8	19	40	0	1	0.09	1.0	29.820	35	13.7	14.9	41	NW	28	34			10	8	
30	23	14	19*	-13	2	46	0	2	0.00	0.0	30.350	31	9.9	10.2	32	NW	17	31			0	0	
31	43	13*	28	-4	20	37	0	1	0.0	0.0	30.230	21	5.1	6.9	21	W	14	19			8	7	
SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	FOR THE MONTH:			TOTAL	%	SUM	SUM			TOTAL	%	SUM	SUM
1446	950				811	0			1.90	2.1	29.940	29	4.7	8.5	41	NW	28	34			212	202	
AVG.	AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.		DATE: 29*	DATE: 29	POSSIBLE	MONTH	AVG.	AVG.	AVG.	AVG.			6.8	6.5	
46.6	30.6	38.6	3.1	29.4	-10.4	0		1.1	1.64														
NUMBER OF DAYS		SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF															
MAXIMUM TEMP.		MINIMUM TEMP.		1762		1228		THUNDERSTORMS		0		PRECIPITATION		SNOW, ICE PELLETS		2		28-29		2		29	
≥ 90°		≤ 32°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		2		0.66		14-15		2.1		28-29	
0		2		19		0		-53		213		CLEAR		5		PARTLY CLOUDY		10		CLOUDY		16	

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 † 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. Wadsworth
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

DEC 1987
WILMINGTON, DE

13781

HOUR	L.S.F.	VISI-BILITY				TEMPERATURE				WIND			VISI-BILITY				TEMPERATURE				WIND																																
		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	1/8THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																				
DEC 1st																		DEC 2nd																		DEC 3rd																	
01	10	UNL	10		41	37	31	68	29	7	10	85	10			43	38	32	65	27	9	0	UNL	15				31	28	22	69	23	4																				
04	4	UNL	10		37	35	31	79	26	9	10	70	10			43	37	28	56	26	11	5	UNL	15				30	27	20	66	20	5																				
07	0	UNL	7		35	33	30	82	25	5	5	UNL	10			39	35	30	70	29	9	5	UNL	8				26	24	20	78	30	3																				
10	6	UNL	10		45	40	34	66	30	8	8	4	UNL	15			42	35	23	47	30	17	10	200	8			36	32	26	67	21	6																				
13	9	250	10		49	43	35	59	26	6	6	45	15			44	35	20	38	30	15	10	140	10			43	36	24	47	21	10																					
16	10	60	10		48	42	34	59	26	8	3	UNL	15			41	33	20	43	30	16	10	140	12			42	36	27	55	16	8																					
19	10	70	10		45	41	36	71	21	7	2	UNL	15			36	31	21	55	25	6	10	70	10			40	35	28	62	14	6																					
22	10	55	10		44	41	36	74	23	8	3	UNL	15			34	30	22	62	29	7	10	32	7			39	38	36	89	22	4																					
DEC 4th																		DEC 5th																		DEC 6th																	
01	10	60	7		40	39	37	89	11	6	10	32	10			37	32	24	59	33	14	6	41	10			36	30	20	52	30	9																					
04	10	44	7		42	41	39	89	14	4	3	UNL	10			33	28	17	52	31	10	10	36	10			37	32	23	57	30	10																					
07	3	UNL	3		39	38	37	93	06	6	1	UNL	10			31	27	18	59	32	9	10	36	10			37	32	22	55	30	12																					
10	10	6	1		43	42	40	89	04	8	7	34	15			36	31	22	57	32	14	6	36	12			40	34	24	53	32	16																					
13	10	13	2		45	43	40	83	35	8	9	40	15			40	33	21	47	30	16	3	UNL	15			43	36	25	49	30	19																					
16	10	14	4		43	40	37	80	34	11	10	32	12			39	34	27	62	30	14	0	UNL	15			42	36	25	51	31	14																					
19	10	18	6		42	39	36	79	33	11	10	50	10			38	33	25	60	29	12	0	UNL	12			37	33	25	62	29	8																					
22	10	29	7		39	35	30	70	32	14	7	50	10			38	32	21	50	32	10	0	UNL	12			34	31	26	73	27	8																					
DEC 7th																		DEC 8th																		DEC 9th																	
01	0	UNL	12		29	27	24	82	24	4	7	110	8			35	32	27	73	29	3	2	UNL	10			34	33	31	89	00	0																					
04	1	UNL	12		28	27	24	85	26	4	10	200	7			34	32	28	79	00	0	10	110	10			36	34	31	82	00	0																					
07	2	UNL	10		25	23	20	81	28	5	8	UNL	4			32	31	28	85	31	3	3	UNL	7			33	32	31	92	00	0																					
10	0	UNL	10		37	33	25	62	30	6	10	250	6			42	37	30	63	21	4	8	160	7			46	42	38	74	20	6																					
13	0	UNL	12		45	37	23	42	30	9	10	250	9			48	40	27	44	21	8	8	80	10			61	55	50	67	20	15																					
16	5	UNL	12		44	37	25	47	33	6	10	150	10			48	40	28	46	21	7	6	120	10			60	56	52	75	20	7																					
19	6	UNL	12		36	32	24	62	31	6	3	UNL	10			43	40	36	76	17	4	7	90	10			56	53	50	80	19	8																					
22	7	110	10		35	32	26	70	01	3	3	UNL	10			36	34	32	85	30	4	7	75	9			51	50	49	93	18	6																					
DEC 10th																		DEC 11th																		DEC 12th																	
01	2	UNL	7		49	49	48	96	17	6	10	39	7			45	45	44	96	34	6	10	110	7			43	40	35	74	19	6																					
04	2	UNL	0		45	45	45	100	00	0	10	50	3			44	43	42	93	33	6	10	55	7			43	41	39	86	18	6																					
07	7	80	0		39	39	39	100	32	5	10	25	4			43	41	38	83	31	6	4	UNL	3			40	40	39	96	24	6																					
10	7	UNL	10		51	47	43	74	33	5	2	UNL	8			46	42	38	74	33	10	0	UNL	8			48	44	39	71	26	10																					
13	10	250	10		56	48	39	53	29	7	6	32	8			50	44	36	59	32	10	0	UNL	12			55	46	35	47	27	10																					
16	10	120	8		51	46	40	66	00	0	3	UNL	10			49	43	35	59	28	9	3	UNL	12			55	45	32	42	26	9																					
19	10	70	7		47	47	46	96	00	0	5	UNL	8			42	39	34	73	31	3	4	UNL	15			49	42	32	52	28	7																					
22	10	32	6		47	46	45	93	01	5	10	140	6			41	40	39	93	21	5	0	UNL	15			45	39	30	56	28	6																					
DEC 13th																		DEC 14th																		DEC 15th																	
01	1	UNL	15		44	37	25	47	27	5	6	UNL	12			36	32	24	62	27	10	10	44	7			39	35	30	70	00	0																					
04	0	UNL	15		42	35	24	49	27	5	10	95	12			37	32	24	59	31	6	10	28	5			37	35	34	89	12	5																					
07	0	UNL	15		37	32	24	59	24	4	10	95	7			38	33	24	57	31	6	10	6	2			35	35	34	96	10	7																					
10	0	UNL	15		44	36	24	45	26	11	10	85	8			41	35	25	53	29	8	10	3	1			38	38	37	96	11	6																					
13	3	UNL	15		46	37	24	42	29	14	2	UNL	12			44	37	25	47	34	9	10	4	1			42	42	41	96	08	9																					
16	2	UNL	15		43	35	20	40	31	12	3	UNL	12			42	36	25	51	31	6	10	1	0			52	52	51	96	12	8																					
19	0	UNL	12		38	33	25	60	28	6	7	UNL	10			39	34	26	60	29	4	10	13	4			53	53	52	96	26	11																					
22	0	UNL	12		34	30	23	64	27	5	10	75	8			39	35	29	67	30	3	0	UNL	10			45	43	41	86	28	6																					
DEC 16th																		DEC 17th																		DEC 18th																	
01	0	UNL	10		42	36	27	55	31	22	10	41	10			37	32	22	55	29	12	8	39	12			33	28	19	56	32	10																					
04	2	UNL	10		38	33	24	57	24	6	10	70	10			37	32	22	55	31	12	0	UNL	12			30	25	15	54	32	7																					
07	0	UNL	15		36	31	23	59	24	5	10	39	10			37	32	23	57	31	14	0	UNL	10			27	23	15	61	31	7																					
10	6	50	15		39	33	22	51	27	11	8	40	12			38	33	24	57	32	16	3	UNL	15			33	28	16	50	36	8																					
13	9	48	15		40	34	24	53	27	16	6	34	15			39	33	23	53	31	12	7	UNL	15			37	30	17	44	34	8																					
16	10	120	15		39	33	23	53	27	20	7	41	15			37	31	21	52	33	14	1	UNL	12			36	30	17	46	30	6																					
19	8	55	15		37	32	23	57	28	17	7	44	15			35	30	20	54	31	12	0	UNL	10			32	27	18	56	00	0																					
22	2	UNL	15		35	32	26	70	28	14	3	UNL	15			34	29	18	52	31	13	0	UNL	10			27	24	19	72	25	3																					

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

DEC 1987
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)										
DEC 19th																															
01	8	120	10			32	28	21	64	17	6	10	44	8	R	39	36	32	76	15	5	8	70	6	F	48	48	48	100	29	6
04	6	85	10			32	29	24	72	20	5	10	31	7	R	37	36	35	93	12	5	10	140	8		48	45	41	77	32	12
07	10	70	10			33	31	27	79	22	6	10	32	5	RF	40	40	39	96	14	7	10	140	8		42	38	32	68	31	7
10	10	55	10			38	34	27	65	23	7	10	4	1	RF	44	44	44	100	17	8	10	120	12		42	37	30	63	31	6
13	10	44	10			42	36	26	53	27	8	10	20	7		51	50	48	90	21	12	10	120	15		43	37	27	53	26	7
16	5	UNL	10			45	38	28	52	31	10	10	70	8		54	52	50	86	22	10	10	120	15		43	36	24	47	27	5
19	8	39	10			40	35	28	62	00	0	10	75	8		49	49	48	96	30	4	10	120	15		39	34	25	57	22	7
22	10	41	10			41	36	29	62	06	6	10	75	7		49	49	48	96	28	7	9	250	15		37	33	27	67	23	8
DEC 20th																															
DEC 21st																															
DEC 22nd																															
DEC 23rd																															
DEC 24th																															
DEC 25th																															
DEC 26th																															
DEC 27th																															
DEC 28th																															
DEC 29th																															
DEC 30th																															
DEC 31st																															

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES					RESULTANT WIND		
		STATION PRESSURE (INCHES)	TEMPERATURE			WIND SPEED (MPH)	DIRECTION	SPEED (MPH)	
			AIR TEMP of	WET BULB of	DEW POINT of				
01	7	29.925	37	34	29	75	7.4	30	4.4
04	7	29.930	36	33	28	76	6.5	29	3.3
07	6	29.950	34	32	27	77	7.0	30	3.8
10	7	29.980	40	36	29	68	9.7	30	5.1
13	7	29.930	44	38	30	59	12.0	28	7.2
16	7	29.920	44	39	30	61	10.3	29	5.6
19	6	29.940	40	37	31	70	7.5	28	4.2
22	6	29.950	38	35	30	75	7.4	30	4.5

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DEC 1987
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																					0.02	0.04			02	
03																									03	
04																									04	
05																									05	
06																									06	
07																									07	
08																									08	
09																									09	
10																									10	
11	0.05	0.05	0.11	0.02																					11	
12				T																					12	
13																									13	
14																									14	
15	T	T	0.01	0.02	0.01	0.11	0.07	0.06	0.02	0.02	0.08	0.01	T	0.01	0.03	0.03	0.09	0.03	0.06				T	T	15	
16																									16	
17											T	T													17	
18																									18	
19																									19	
20	T	0.01	0.02	0.05	T			0.01	0.01	0.04	0.07	0.02	T												20	
21																									21	
22																					T	0.02	T	T	22	
23	T	T																							23	
24																									24	
25				T	0.01	0.02	0.02	T	T	0.01	T	T					T	T	T			T	T	0.07	25	
26	0.04	0.07	0.03	T	T	T	0.01	0.01	T	T	T	T													26	
27																									27	
28	0.02	T	0.01	T	T	0.02	0.02	T	T	0.01	0.01	T	0.01	0.01	T	0.02	T	0.01	0.02	0.01	0.04	0.01	0.02	0.03	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)	0.06	0.06	0.06	0.06	0.07	0.10	0.12	0.14	0.17	0.20	0.23	0.26
ENDED: DATE	15	15	15	15	15	15	15	15	15	15	15	15
ENDED: TIME	1804	1804	1804	1804	1829	0550	0600	0622	0646	0705	0746	0746

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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