

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 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		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)	IN INCHES	ELEV. 80 FEET ABOVE M.S.L.	RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	
01	53	25	39	-1	27	26	0		0	0.00	0.0	30.300	22	2.8	3.2	21	SW	12	20		7	5	
02	57	30	44	4	30	21	0		0	0.00	0.0	30.280	32	4.3	5.2	21	NW	14	34		9	8	
03	57	37	47	8	40	18	0	1	0	0.77	0.0	30.180	10	11.0	14.0	29	SE	18	15	10	10	10	
04	65	32	49	10	36	16	0	1	0	0.74	0.0	29.745	26	9.4	16.1	36	S	24	16		9	8	
05	38	29	34	-4	18	31	0		0	0.00	0.0	29.965	28	13.3	14.3	44	W	25	30		5	4	
06	53	27	40	2	23	25	0		0	0.00	0.0	29.960	24	4.0	5.3	15	W	9	26		6	5	
07	48	29	39	1	29	26	0		0	0.00	0.0	30.060	04	2.1	3.4	12	E	7	06		8	9	
08	50	34	42	5	28	23	0		0	0.00	0.0	29.970	34	6.4	6.9	17	NW	13	01		7	6	
09	49	28	39	2	26	26	0		0	0.00	0.0	30.015	29	6.4	8.0	22	NW	15	32		1	1	
10	57	36	47	10	28	18	0		0	0.00	0.0	29.870	29	10.1	11.8	33	NW	18	30		6	4	
11	39	28	34	-3	16	31	0		0	0.00	0.0	30.140	32	2.1	3.8	20	NW	8	30	10	5	5	
12	52	25	39	3	30	26	0		0	0.00	0.0	30.010	17	1.7	3.6	14	W	8	15		2	3	
13	60	33	47	11	34	18	0	1	0	0.00	0.0	29.810	28	5.9	7.9	32	NW	18	33		9	5	
14	40	25	33	-3	15	32	0		0	0.00	0.0	30.350	36	2.5	5.8	26	NW	13	01		0	0	
15	44	25	35	0	32	30	0	1 4	1	0.69	0.0	30.050	20	1.1	4.0	16	SW	14	30	10	9	9	
16	51	41	46	11	35	19	0	1	0	0.00	0.0	29.920	28	11.0	12.3	31	NW	17	29		7	7	
17	49	29	39	4	30	26	0	1	0	0.02	0.0	30.050	24	3.3	6.6	18	NW	13	31		10	8	
18	66	39	53	18	47	12	0	1	0	0.30	0.0	29.560	20	9.8	12.3	37	NW	23	32		10	10	
19	52	33	43	9	35	22	0		0	0.01	0.0	29.990	31	7.9	8.7	25	NW	17	35		5	4	
20	45	31	38	4	30	27	0		0	0.00	0.0	30.480	07	6.9	8.4	20	E	14	10		9	7	
21	57	43	50	16	49	15	0	2	0	0.40	0.0	30.240	12	4.0	7.1	20	S	12	17		10	10	
22	62	50	56	22	55	9	0	2	0	0.00	0.0	30.030	19	7.0	7.6	23	S	15	19		10	10	
23	66	55	61*	27	59	4	0	2	0	0.56	0.0	29.790	18	9.7	10.4	28	SW	20	18		10	10	
24	64	25	45	12	29	20	0	2	0	0.26	0.0	29.780	29	12.4	17.0	45	NW	31	29		7	6	
25	31	18*	25*	-8	9	40	0		0	0.00	0.0	30.300	29	5.6	8.3	24	NW	16	32		0	1	
26	37	20	29	-4	15	36	0		0	0.00	0.0	30.430	29	6.2	7.0	21	NW	15	29		10	6	
27	29	22	26	-7	15	39	0	1	0	0.53	5.4	30.650	04	9.6	10.6	28	NE	20	05		10	8	
28	35	27	31	-2	30	34	0	2 4 6	6	0.62	1.0	30.380	03	8.5	9.0	24	NE	17	05		10	10	
29	37	34	36	3	35	29	0	2	4	0.06	0.0	30.230	20	2.2	2.5	14	S	9	19		10	10	
30	66*	35	51	19	50	14	0	2	2	0.16	0.0	29.835	22	6.7	8.0	28	SW	17	22		10	10	
31	61	26	44	12	28	21	0		0	0.04	0.0	30.160	31	12.7	14.3	48	NW	35	31		5	5	
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH:								TOTAL	%	SUM	SUM
1570	971					734	0			5.16	6.4	30.080	28	2.8	8.5	48	NW	35	31			232	204
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.		PRECIPITATION		DEP.							DATE: 31	DATE: 31	POSSIBLE	MONTH	AVG.	AVG.	
50.6	31.3	41.0	5.5	31.0	-181	0		≥ .01 INCH.	14	1.62											7.5	6.6	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF									
MAXIMUM TEMP.		MINIMUM TEMP.		1514	1188	THUNDERSTORMS		0	PRECIPITATION		SNOW, ICE PELLETS		SNOW, ICE PELLETS OR ICE AND DATE										
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG		7	1.49	03-04	6.4	27-28	6 28										
0	2	19	0	-301	173	CLEAR		4	PARTLY CLOUDY		CLOUDY		18										

* 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

noaa

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 1990
WILMINGTON, DE 13781

HOUR	L. S. T.	VISI-BILITY			TEMPERATURE				WIND			VISI-BILITY			TEMPERATURE				WIND												
		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	AIR OF	MET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)			
DEC 1st																															
01	0	UNL	15		32	29	23	69	00	0	10	250	12		34	33	30	85	00	0	3	UNL	10			41	35	24	51	03	10
04	0	UNL	15		30	27	22	72	00	0	10	UNL	12		30	29	27	89	32	3	10	70	15		41	35	24	51	05	12	
07	5	UNL	15		29	27	24	82	00	0	10	UNL	8		31	30	28	89	00	0	10	65	15		41	36	27	58	07	13	
10	4	UNL	10		43	38	31	53	24	6	8	UNL	8		47	40	30	52	29	5	10	65	8		43	40	37	80	07	11	
13	7	UNL	15		51	41	28	41	23	6	10	95	10		53	43	31	43	34	12	10	25	7	R	49	47	44	83	10	11	
16	9	250	15		50	41	28	43	25	4	8	250	10		51	42	30	45	32	8	10	8	1	8	RF	49	49	48	96	11	8
19	4	UNL	12		41	36	28	60	00	0	3	UNL	10		44	40	34	68	31	3	10	5	4		54	53	52	93	14	16	
22	7	UNL	12		32	30	27	82	00	0	5	UNL	10		36	34	32	85	31	3	10	5	7		56	55	55	97	15	15	
DEC 2nd																															
DEC 3rd																															
DEC 4th																															
DEC 5th																															
DEC 6th																															
DEC 7th																															
DEC 8th																															
DEC 9th																															
DEC 10th																															
DEC 11th																															
DEC 12th																															
DEC 13th																															
DEC 14th																															
DEC 15th																															
DEC 16th																															
DEC 17th																															
DEC 18th																															

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- G SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SN 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: 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 1990
WILMINGTON, DE

13781

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND		SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND							
	01	04	07	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	01	04	07	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	01	04	07	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	
DEC 19th												DEC 20th												DEC 21st															
01	10	60	10			51	51	50	96	24	5	0	UNL	10						33	31	27	79	32	3	10	24	10						44	42	39	83	06	6
04	4	UNL	10			48	48	47	96	28	5	0	UNL	10						32	30	25	75	36	7	10	15	8						45	44	42	89	05	6
07	7	250	10			43	41	39	86	32	7	3	UNL	10						33	30	25	73	03	7	10	43	7						48	47	46	93	05	7
10	8	250	10			46	41	35	66	32	11	10	UNL	15						38	33	25	60	07	12	10	11	1						50	49	48	93	06	5
13	3	UNL	15			49	41	31	50	35	15	10	120	15						43	38	30	60	12	10	10	3	0	12	RF	50	53	52	96	10	6			
16	1	UNL	12			48	41	31	52	31	11	10	31	15						45	40	33	63	09	4	10	0	0	12	LF	55	55	54	97	16	10			
19	0	UNL	12			40	36	30	68	32	5	10	120	12						43	39	34	71	07	8	10	0	0	4	LF	52	52	51	96	16	5			
22	0	UNL	12			37	34	28	70	32	6	10	36	12						43	40	36	76	07	8	10	0	0	2	LF	52	52	52	100	20	3			
DEC 22nd												DEC 23rd												DEC 24th															
01	10	1	0	2	F	50	50	50	100	23	5	10	36	4	F	58	57	56	93	17	9	9	10	4	0	4	RF	54	54	54	100	17	12						
04	10	7	2	8	F	50	50	50	100	19	5	10	0	0	F	56	55	55	97	17	8	10	1	1	4	F	55	55	55	100	18	13							
07	10	0	0	1	F	50	50	50	100	17	2	10	10	1	8	F	57	57	57	100	17	6	10	43	3	4	R	50	48	46	86	28	15						
10	10	0	0	1	F	52	52	52	100	19	4	10	13	6	F	65	63	62	90	18	17	10	65	15			43	38	30	60	30	18							
13	10	4	1	1	F	59	59	59	100	21	12	10	24	10	R	66	64	62	87	21	11	9	UNL	15			41	34	21	45	30	25							
16	10	7	5	F	F	61	60	59	93	23	9	10	75	7						64	63	62	93	20	6	1	UNL	20			36	29	13	39	32	16			
19	10	14	6	F	F	61	59	58	90	19	7	10	70	4	RF	60	59	58	93	19	6	6	UNL	15			31	25	10	41	30	12							
22	10	8	6	F	F	61	60	59	93	19	7	10	2	1	4	RF	57	56	56	97	15	9	0	UNL	15			28	23	10	47	30	11						
DEC 25th												DEC 26th												DEC 27th															
01	0	UNL	15			24	19	6	46	32	12	2	UNL	15						22	19	12	65	21	5	3	UNL	12			22	19	12	65	32	6			
04	0	UNL	15			20	16	5	52	32	8	0	UNL	15						20	18	14	78	30	4	3	UNL	12			22	19	9	57	01	6			
07	0	UNL	15			19	16	5	54	32	11	6	UNL	12						24	22	16	72	24	6	8	220	10			24	20	10	55	02	10			
10	0	UNL	20			24	19	6	46	31	8	9	UNL	8						31	26	16	54	27	8	10	180	12			25	21	9	51	02	9			
13	0	UNL	20			30	24	7	38	24	4	10	250	12						37	30	16	42	29	13	10	120	12			28	22	7	41	06	7			
16	1	UNL	20			30	24	9	41	20	6	10	250	12						35	29	16	46	31	7	10	29	10	S		29	25	17	61	04	8			
19	2	UNL	15			25	21	11	55	22	5	10	250	15						31	26	15	52	30	5	10	7	1	4	S	26	25	24	92	04	12			
22	1	UNL	15			25	23	18	75	22	4	2	UNL	15						28	24	15	58	29	5	10	5	0	12	SF	26	26	25	96	06	15			
DEC 28th												DEC 29th												DEC 30th															
01	10	7	1	8	SF	27	26	25	92	05	14	10	0	0	2	F	34	34	33	96	35	3	10	1	0	2	LF	35	35	35	100	00	0						
04	10	6	2	8	ZRIPF	30	30	29	96	04	10	10	2	0	4	LF	34	34	33	96	00	0	10	0	0	2	F	36	36	36	100	00	0						
07	10	5	3	8	ZLF	31	30	29	92	03	9	10	2	0	2	F	34	34	34	100	00	0	10	0	0	2	F	39	39	39	100	00	0						
10	10	6	2	8	ZLF	31	31	30	96	03	8	10	3	0	12	F	35	35	35	100	22	4	10	5	0	1	F	50	50	50	100	22	5						
13	10	7	4	F	F	33	32	31	92	04	8	10	0	0	2	F	36	36	35	96	19	8	10	250	10			64	61	59	84	22	15						
16	10	7	4	F	F	34	33	31	89	03	7	10	0	0	1	F	37	37	37	100	21	3	10	200	12			65	61	58	78	20	14						
19	10	5	4	F	F	35	33	31	85	36	4	10	1	0	1	F	37	37	36	96	25	2	10	80	10			66	62	59	78	26	10						
22	10	2	1	8	F	34	34	33	96	35	4	10	1	0	2	F	36	36	36	100	00	0	10	85	3			59	58	57	93	22	7						
DEC 31st																																							
01	10	85	12		R	59	58	57	93	18	12																												
04	10	95	15			48	44	39	71	31	18																												
07	9	25	15			43	39	33	68	31	13																												
10	10	36	15			40	35	27	60	30	15																												
13	2	UNL	15			41	34	21	45	30	17																												
16	0	UNL	15			39	32	20	47	31	13																												
19	0	UNL	15			31	27	19	61	30	6																												
22	0	UNL	15			29	26	18	64	31	11																												

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	DEN POINT OF				
01	6	30.070	38	36	31	76	7.4	24	1.7
04	6	30.070	37	34	30	78	6.8	28	1.2
07	7	30.090	36	34	30	80	7.2	31	3.0
10	8	30.110	41	38	31	69	10.1	30	4.7
13	8	30.070	46	40	31	59	11.9	29	5.5
16	7	30.060	46	40	31	58	9.8	28	3.8
19	6	30.090	42	38	31	66	7.6	27	2.9
22	5	30.100	39	36	31	74	7.5	28	2.1

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DEC 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	0.08	0.17	0.16	0.03	0.06		0.13	0.07	0.02	0.01	0.01	0.04	0.01	0.03	0.08	0.12	0.18	0.06	0.05	0.04	T	0.01	0.02	0.08	04	
05																									05	
06																									06	
07																									07	
08																									08	
09																									09	
10																									10	
11																									11	
12																									12	
13																									13	
14																									14	
15							T	T	0.04	0.09	0.09	0.04	0.18	0.14	0.04	0.02						0.02	0.03	15		
16	T																								16	
17																				T	T	T	0.01	0.01	17	
18	0.01	0.07	0.01	T	0.02	0.06	0.07	0.03	T											T	0.02	T	T	0.01	18	
19	0.01																								19	
20																									20	
21		T	T	T	T	0.01	T	T		T	0.04	0.08	0.15	0.05	0.04	0.02	T	T	T	0.01	T	T	T	T	21	
22																									22	
23																									23	
24	0.04	0.06	0.05	0.02		0.01	0.04	0.04				T	T	T	0.02		0.01	0.08	0.08	0.11	0.08	0.08	0.05	0.05	24	
25																									25	
26																									26	
27																									27	
28	0.13	0.09	0.14	0.10	0.03	0.04	0.05	0.02	0.02	T	T	T				T	T	0.02	0.05	0.06	0.08	0.11	0.09	0.12	28	
29		T	T	0.02	0.01	0.03	T														T	T			29	
30	T	T	T	T								T	T								0.02	T	0.10	0.02	0.02	30
31	T	0.01	0.03																						31	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.04	0.08	0.10	0.12	0.14	0.18	0.20	0.24	0.28	0.33	0.37	0.41
ENDED: DATE	04	04	04	04	04	04	04	04	04	04	04	04
ENDED: TIME	0701	0659	0659	0703	0713	0729	0737	0248	0303	0259	0303	0259

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

SUBSCRIPTION PRICE AND ORDERING INFORMATION AVAILABLE FROM:
THE NATIONAL CLIMATIC DATA CENTER, FEDERAL BUILDING
ASHEVILLE, NORTH CAROLINA 28801
ATTN: PUBLICATIONS

WILMINGTON, DE
USCOMM - NOAA - ASHEVILLE, NC 225

U.S. DEPARTMENT OF COMMERCE
NATIONAL CLIMATIC DATA CENTER
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

AN EQUAL OPPORTUNITY EMPLOYER

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

COM 210



FIRST CLASS