

OCT 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

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	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	68	50	59	-3	47	6	0		0	0.00	0.0	29.960	27	4.0	6.2	17	N	9	29			2	2														
02	70	48	59	-3	44	6	0		0	0.00	0.0	30.000	29	7.9	8.7	28	NW	21	29			0	1														
03	71	43	57	-4	47	8	0		0	0.00	0.0	30.230	16	5.3	5.8	17	S	13	18			3	3														
04	76	54	65	4	59	0	0	1	8	0.32	0.0	29.940	20	8.2	10.6	33	S	22	19			10	8														
05	75	49	62	2	50	3	0		0	0.00	0.0	29.980	23	8.0	8.3	28	SW	17	24			2	1														
06	83	55	69	9	55	0	4		0	0.00	0.0	30.020	21	6.1	6.4	22	SW	16	21			2	1														
07	83	52	68	8	58	0	3	2		0.00	0.0	30.070	23	4.8	5.1	21	N	15	24			0	1														
08	83	60	72	13	66	0	7	2	8	0.11	0.0	30.060	19	3.0	3.6	17	SW	10	20			10	9														
09	84*	68	76*	17	65	0	11			0.00	0.0	30.010	19	9.0	9.6	29	S	20	19			2	4														
10	80	66	73	15	66	0	8	1		0.00	0.0	30.020	15	8.7	9.1	25	SE	17	12			9	7														
11	77	69	73	15	66	0	8	1		0	0.0	30.020	15	11.0	11.8	35	SE	25	15			10	9														
12	80	66	73	15	67	0	8	1		0.24	0.0	29.960	11	5.9	6.4	17	SE	14	16			9	9														
13	81	69	75	18	69	0	10	1		0.65	0.0	29.720	14	4.3	6.0	21	SE	13	15			9	9														
14	79	62	71	14	64	0	6	1		0.00	0.0	29.745	30	3.9	5.3	17	NW	14	32			3	4														
15	77	54	66	9	52	0	1	1	8	0.00	0.0	29.850	30	7.8	8.4	26	NW	20	30			0	1														
16	69	48	59	3	41	6	0		0	0.00	0.0	30.170	30	4.3	4.8	17	W	10	29			0	0														
17	75	46	61	5	52	4	0		0	0.00	0.0	30.180	18	6.2	6.9	23	S	15	20			8	7														
18	78	50	64	9	58	1	0	1	3	0.92	0.0	29.770	19	11.2	15.3	38	S	28	18			10	9														
19	57	41	49	-6	33	16	0		0	0.00	0.0	29.930	29	12.4	13.3	36	NW	23	30			1	2														
20	63	36	50	-5	37	15	0		0	0.00	0.0	30.240	30	1.4	4.1	10	NW	9	30			3	4														
21	67	39	53	-1	49	12	0		0	0.00	0.0	30.200	14	3.0	4.6	15	SE	10	15			10	6														
22	73	50	62	8	58	3	0	2		0.06	0.0	30.020	22	1.8	3.0	13	SW	10	21			10	9														
23	68	61	65	11	62	0	0	1		0.55	0.0	29.710	09	2.9	9.2	23	E	15	31			10	9														
24	66	47	57	4	47	8	0		0	0.00	0.0	29.730	31	11.9	12.1	29	NW	21	32			0	3														
25	62	43	53	0	42	12	0		0	0.00	0.0	29.740	01	7.1	8.0	22	N	14	36			7	7														
26	52	35	44	-9	31	21	0		0	0.00	0.0	29.760	35	16.8	17.3	37	N	25	35			8	5														
27	56	30	43	-9	26	22	0		0	0.00	0.0	30.095	30	4.0	6.4	17	NW	12	34			0	0														
28	59	41	50	-2	33	15	0		0	0.00	0.0	29.965	28	7.6	11.4	29	NW	18	31			5	5														
29	51	32	42*	-10	25	23	0		0	0.00	0.0	30.145	31	11.4	11.8	30	NW	18	30			3	3														
30	60	30*	45	-6	32	20	0		0	0.00	0.0	30.170	26	4.2	5.1	18	NW	9	24			0	0														
31	63	40	52	1	43	13	0		0	0.00	0.0	30.130	19	1.2	3.0	21	N	9	14			8	7														
SUM		SUM		SUM		TOTAL		TOTAL		NUMBER OF DAYS		TOTAL		TOTAL		FOR THE MONTH:					TOTAL		% FOR MONTH		SUM		SUM										
2186		1534				214		66				2.85		0.0		29.985		25		2.4		8.0		38		S		28		18				154		145	
AVG.		AVG.		AVG.		DEP.		AVG.		PRECIPITATION		DEP.										DATE: 18		DATE: 18		POSSIBLE						5.0		4.7			
70.5		49.5		60.0		3.7		49.7		-68		54																									
NUMBER OF DAYS						SEASON TO DATE		TOTAL		TOTAL		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF		GREATEST DEPTH ON GROUND OF					
MAXIMUM TEMP.						MINIMUM TEMP.		286		1188		THUNDERSTORMS		1		PRECIPITATION		SNOW, ICE PELLETS																			
> 90°						< 32°		< 32°		< 0°		DEP.		DEP.		HEAVY FOG		3		0.92		18		0.0													
0						0		3		0		-32		173		CLEAR		16		PARTLY CLOUDY		2		CLOUDY		13											

* 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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ASHEVILLE NORTH CAROLINA

Kenneth D. Walden
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

OCT 1990 13781
WILMINGTON, DE

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	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)		CEILING IN HUNDREDS OF FEET	WHOLE MILES		16THS MILE	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																																									
OCT 1st																														OCT 2nd																														OCT 3rd																													
01	2	UNL	15			54	52	50	86	32	5	0	UNL	12			52	51	49	90	23	4	0	UNL	15				49	47	44	83	33	3																																																							
04	2	UNL	15			51	50	48	90	30	3	7	80	10			57	55	53	87	25	5	0	UNL	15				45	43	41	86	00	0																																																							
07	4	UNL	10			51	50	49	93	30	4	2	UNL	7			57	53	50	78	25	5	0	UNL	10				47	42	37	68	00	0																																																							
10	1	UNL	15			63	54	46	54	35	8	0	UNL	12			65	53	41	42	30	12	1	UNL	10				64	54	44	48	16	5																																																							
13	2	UNL	15			67	56	46	47	31	8	0	UNL	12			69	54	40	35	32	12	1	UNL	15				69	56	45	42	14	8																																																							
16	1	UNL	15			67	55	44	44	22	7	0	UNL	15			69	54	39	34	28	11	10	UNL	15				70	58	48	46	18	9																																																							
19	0	UNL	15			60	53	47	62	20	6	0	UNL	15			58	49	40	51	30	3	8	UNL	15				63	58	54	73	15	5																																																							
22	0	UNL	15			56	52	48	75	21	6	0	UNL	15			54	49	43	67	27	4	3	UNL	15				61	57	53	75	18	9																																																							
OCT 4th																														OCT 5th																														OCT 6th																													
01	9	41	15			61	57	53	75	18	6	0	UNL	20			52	51	49	90	25	5	0	UNL	15				62	58	54	75	24	3																																																							
04	8	UNL	12			61	57	54	78	16	6	0	UNL	20			49	48	47	93	28	4	0	UNL	15				59	56	53	81	00	0																																																							
07	10	250	6			64	62	60	87	17	10	0	UNL	20			51	50	48	90	00	0	5	UNL	10				57	55	53	87	00	0																																																							
10	10	27	7			73	67	63	71	19	19	0	UNL	20			68	59	52	57	23	14	1	UNL	15				74	65	59	60	22	5																																																							
13	10	31	6			74	68	64	71	19	12	3	UNL	20			73	60	49	43	24	15	0	UNL	15				82	64	51	34	21	14																																																							
16	10	45	10			66	65	64	93	26	8	1	UNL	20			75	61	51	43	24	10	0	UNL	15				80	64	53	39	23	9																																																							
19	7	70	10			66	64	63	90	24	5	1	UNL	20			67	59	52	59	21	7	0	UNL	15				70	61	55	59	19	6																																																							
22	2	UNL	15			57	54	52	84	30	8	0	UNL	15			64	58	53	68	19	6	0	UNL	15				66	59	54	65	00	0																																																							
OCT 7th																														OCT 8th																														OCT 9th																													
01	0	UNL	15			61	59	57	87	18	4	0	UNL	15			65	64	63	93	00	0	10	100	10				71	69	68	90	22	2																																																							
04	3	UNL	10			60	59	59	97	00	0	10	1	0	4	F	63	62	62	97	00	0	10	85	10				71	68	66	84	20	4																																																							
07	0	UNL	0	12	F	54	54	54	100	00	0	10	120	1		F	64	63	63	97	00	0	4	UNL	10				71	68	66	84	18	7																																																							
10	0	UNL	10			73	65	60	64	20	9	10	120	5		FH	73	70	68	84	16	6	9	100	15				77	70	66	69	20	11																																																							
13	0	UNL	15			82	67	58	44	24	13	8	120	7			80	73	69	69	26	6	1	UNL	15				84	71	64	51	23	12																																																							
16	1	UNL	15			81	67	58	46	24	9	10	140	8			80	71	67	65	24	5	0	UNL	15				83	71	65	55	21	10																																																							
19	3	UNL	15			72	64	59	64	20	5	10	45	7			76	70	66	71	00	0	0	UNL	15				76	68	63	64	17	7																																																							
22	1	UNL	15			67	63	60	78	00	0	10	80	7		RW	72	70	69	90	19	5	0	UNL	15				70	68	66	87	17	14																																																							
OCT 10th																														OCT 11th																														OCT 12th																													
01	1	UNL	15			67	65	63	87	00	0	3	UNL	10			70	68	66	87	14	7	10	24	7				70	68	67	90	11	8																																																							
04	0	UNL	15			66	65	64	93	16	6	10	250	10			69	67	66	90	13	8	5	UNL	7				68	66	65	90	08	6																																																							
07	6	250	6			68	67	66	93	16	5	10	100	10			71	67	65	81	13	10	9	UNL	7				68	66	65	90	10	5																																																							
10	8	UNL	10			74	70	68	82	16	9	10	75	12			75	69	65	71	15	19	8	UNL	10				77	70	66	69	14	3																																																							
13	10	250	12			80	71	66	63	15	10	10	70	10			76	69	65	69	15	17	10	65	12				78	70	65	64	12	10																																																							
16	10	80	12			77	70	66	69	15	14	10	43	10			76	70	66	71	16	13	10	9	3				72	71	70	94	13	6																																																							
19	10	85	15			71	68	66	84	13	9	10	32	5			71	69	68	90	18	6	10	15	3				71	68	67	87	07	5																																																							
22	9	85	15			70	68	66	87	10	6	7	27	15			72	69	68	87	16	5	10	5	4				71	70	69	93	13	4																																																							
OCT 13th																														OCT 14th																														OCT 15th																													
01	7	50	1	12	F	70	69	68	93	10	7	10	44	3		F	69	68	67	93	00	0	10	40	7				63	62	61	93	00	0																																																							
04	9	3	1	8	F	69	68	68	97	08	6	10	110	3		F	69	68	68	97	31	3	2	UNL	2				63	62	61	93	23	4																																																							
07	8	100	2		F	70	69	69	97	11	3	8	75	5		F	67	66	65	93	33	3	0	UNL	2				62	61	60	93	26	5																																																							
10	10	9	10			74	71	70	87	16	9	1	UNL	8			74	68	64	71	32	8	0	UNL	12				72	63	56	57	30	10																																																							
13	8	80	8			81	75	72	74	14	10	4	UNL	8			75	67	62	64	29	4	2	UNL	15				75	60	49	40	30	17																																																							
16	9	55	5			75	73	72	90	17	6	0	UNL	8			78	67	61	56	31	3	0	UNL	15				72	57	45	38	29	11																																																							
19	10	41	8			73	66	61	66	22	2	0	UNL	10			70	65	61	73	21	3	0	UNL	15				61	52	42	50	30	8																																																							
22	10	48	8			70	69	69	97	31	3	0	UNL	10			65	63	62	90	21	5	0	UNL	15				56	50	44	64	30	6																																																							
OCT 16th																														OCT 17th																														OCT 18th																													
01	0	UNL	15			55	49	42	62	34	7	3	UNL	15			50	48	46	86	00	0	10	UNL	10				67	64	62	84	18	12																																																							
04	0	UNL	15			51	46	39	64	30	5	1	UNL	15			48	47	46	93	00	0	10	250	15				66	64	62	87	19	9																																																							
07	0	UNL	15			50	45	40	69	27	3	9	UNL	8			50	49	47	90	00	0	10	UNL	7				66	64	62	87	17	12																																																							
10	0	UNL	15			63	52	42	46	00	0	5	UNL	10			68	60	53	59	20	10	10	250	10				74	67	63	69	18	18																																																							
13	0	UNL	15			69	53	38	32	29	9	10	UNL	15			72	59	49	44	18	10	10	47	10				77	66	60	56	18	14																																																							
16	1	UNL	15			67	53	39	36	32	7	8	UNL	15			73	61	53	50	15	9	10	40	5				69	67	66	90	17	12																																																							
19	0	UNL	15			58	47	35	42	00	0	8	UNL	10			66	61	57	73	18	6	10	45	5				58	54	51	78	28	4																																																							
22	0	UNL	15			52	50	47	83	27	3	10	250	10			66	63	61	84	18	8	9	75	15				52	46	38	59	30	20																																																							

OCT 1990 13781
WILMINGTON, DE

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	4	29.985	56	53	50	81	6.1	27	2.0
04	5	29.980	54	52	49	84	5.9	30	1.6
07	5	30.005	54	51	49	83	5.8	28	1.1
10	5	30.020	64	57	51	63	11.4	25	2.8
13	5	29.970	69	59	50	52	12.8	24	4.6
16	5	29.950	68	58	50	55	9.7	24	3.9
19	4	29.970	61	55	49	66	5.7	23	2.3
22	4	30.000	57	54	50	77	6.5	26	2.4

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OCT 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															0.25	0.03	0.04	T							03
04																									04
05																									05
06																									06
07																				0.05	0.04	0.02	T		07
08																									08
09																									09
10																									10
11																	T	T	T						11
12																0.06	0.13	0.01	T			0.04			12
13					0.03	0.01	T							0.03	0.40	0.17			T	0.01					13
14																			T						14
15																									15
16																									16
17																									17
18														0.01	0.08	0.05	0.22	0.34	0.16	0.06	T				18
19																									19
20																									20
21																									21
22																0.01	0.02	0.01	T	T		0.01	0.01		22
23	0.01	T	T	0.01	0.02	0.08	0.19	T	0.03	0.03	0.01	0.03	0.03	0.03	0.02		T	0.02	0.01	0.03	T				23
24																									24
25																									25
26																									26
27																									27
28								T																	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)	0.10	0.17	0.21	0.25	0.32	0.39	0.47	0.55	0.61	0.69	0.74	0.77
ENDED: DATE	18	18	18	13	13	13	18	18	18	18	18	18
ENDED: TIME	1704	1704	1710	1435	1435	1435	1756	1813	1834	1852	1921	1933

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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