



OCTOBER 2000

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY APRT (ILG)
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 93 Feet
 Time Zone: EASTERN WBAN: 13781 ISSN #: 0198-117X

OCTOBER 2000
WILMINGTON, DE

DATE	TEMPERATURE °F							DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING	0700 LST		1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM						
																			5-SEC		2-MIN				
																			SPEED	DIR	SPEED	DIR			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	71	47	59	-3	54	57	6	0	FG+ BR				0.00	30.06	30.16	1.8	03	3.3	9	09	8	08	01		
02	75	51	63	1	55	58	2	0	BR				0.00	29.86	29.96	3.6	31	5.8	13	28	10	27	02		
03	82	56	69	8	61	64	0	4	BR HZ				0.00	29.82	29.92	5.6	26	6.0	20	30	17	30	03		
04	83*	57	70*	9	63	66	0	5	RA BR HZ				T	29.87	29.97	0.7	17	6.4	23	31	18	31	04		
05	67	61	64	4	60	61	1	0	FG BR				0.00	29.89	29.98	8.0	05	8.7	18	07	15	06	05		
06	76	57	67	7	62	64	0	2	RA FG BR HZ				T	29.77	29.87	5.8	28	8.2	29	30	23	30	06		
07	62	42	52	-7	38	46	13	0					0.00	30.01	30.11	12.3	30	12.6	26	28	21	29	07		
08	54	37	46	-13	33	39	19	0					0.00	30.11	30.21	6.8	29	8.0	23	28	18	31	08		
09	52	34	43*	-16	30	37	22	0					0.00	30.07	30.17	9.4	31	9.6	30	31	22	30	09		
10	54	37	46	-12	39	42	19	0	RA				T	29.97	30.07	7.8	26	8.1	25	26	20	26	10		
11	69	43	56	-2	39	47	9	0					0.00	30.05	30.15	9.0	26	9.6	26	29	22	28	11		
12	71	41	56	-2	43	49	9	0	BR HZ				0.00	30.17	30.27	5.2	28	6.0	15	30	13	28	12		
13	74	44	59	2	43	51	6	0					0.00	30.11	30.21	4.1	27	4.9	16	29	13	23	13		
14	78	45	62	6	47	54	3	0					0.00	30.02	30.12	5.3	25	5.8	14	27	13	28	14		
15	79	51	65	9	51	57	0	0					0.00	29.96	30.06	4.4	29	4.9	14	31	11	29	15		
16	71	55	63	7	57	60	2	0	RA BR HZ				T	30.03	30.13	7.0	06	7.8	18	06	15	07	16		
17	64	56	60	4	55	57	5	0	RA BR				0.02	30.11	30.21	9.5	07	9.8	21	05	18	06	17		
18	65	49	57	2	57	58	8	0	RA BR				0.06	29.95	30.05	3.3	34	6.3	17	31	14	31	18		
19	67	46	57	2	43	49	8	0	BR				0.00	30.00	30.10	9.9	30	10.0	28	31	23	30	19		
20	67	38	53	-2	47	50	12	0	BR				0.00	30.16	30.25	2.9	17	5.3	15	16	13	16	20		
21	75	45	60	6	52	55	5	0	BR HZ				0.00	30.07	30.17	2.3	25	3.3	20	35	9	25	21		
22	67	43	55	1	40	49	10	0	BR				0.00	30.33	30.43	5.5	03	6.8	20	04	17	03	22		
23	63	36	50	-4	40	45	15	0					0.00	30.48	30.58	1.0	35	4.8	13	03	11	03	23		
24	63	41	52	-1	47	50	13	0					0.00	30.30	30.40	3.2	24	3.7	13	25	10	25	24		
25	72	47	60	7	53	56	5	0	BR HZ				0.00	30.19	30.29	1.2	05	4.1	15	03	13	06	25		
26	62	50	56	3	53	54	9	0	FG+ BR HZ				0.00	30.19	30.29	0.8	09	1.5	8	07	7	07	26		
27	71	50	61	9	53	56	4	0	BR HZ				0.00	29.96	30.06	2.2	36	3.1	13	01	10	01	27		
28	64	38	51	-1	37	47	14	0	BR HZ				0.00	29.94	30.04	13.9	32	14.3	36*	33	30*	32	28		
29	55	34	45	-7	22	36	20	0					0.00	30.04	30.14	12.4	31	13.5	32	30	26	28	29		
30	56	33*	45	-6	26	38	20	0					0.00	30.01	30.10	10.3	32	11.5	26	32	22	32	30		
31	61	39	50	-1	31	41	15	0					0.00	30.02	30.12	11.9	32	12.0	25	31	20	32	31		
< MONTHLY AVERAGES											TOTALS-->		<- MONTHLY AVERAGES												
0.8											-2.80		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 0.08 DATE: 17-18				SEA LEVEL PRESSURE DATE TIME										
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: DATE:				: 30.65 23 0851										
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: DATE:				: 29.81 06 1251										
HEATING: 274 -14 375 52											NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 2								
COOLING: 11 -4 939 -107													MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 0								
													THUNDERSTORMS: 0		HEAVY FOG: 2		SNOWFALL ≥ 1.0 INCH: :								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

OCTOBER 2000

ILG

WBAN # 13781

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04	T	0.00		
05													05												05	T	0.00		
06													06				T								06	T	0.00		
07													07				T								07	T	0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10	T	0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16	T											16	T	0.00		
17													17				0.02								17	T	0.02		
18													18												18	T	0.06		
19													19												19	T	0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less

BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961 – 1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):

'+' = Heavy ' ' = Moderate '- ' = Light

WILMINGTON, DE OCTOBER 2000

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							< .25	10.00	
02							5.00	10.00	
03							2.00	10.00	
04							3.00	10.00	
05							.50	10.00	
06							.50	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							2.50	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							9.00	10.00	
16							3.00	10.00	
17							2.50	10.00	
18							1.50	10.00	
19							6.00	10.00	
20							5.00	10.00	
21							3.00	10.00	
22							5.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							1.75	10.00	
26							< .25	7.00	
27							1.00	10.00	
28							3.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.75	9.90	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 13 13									

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

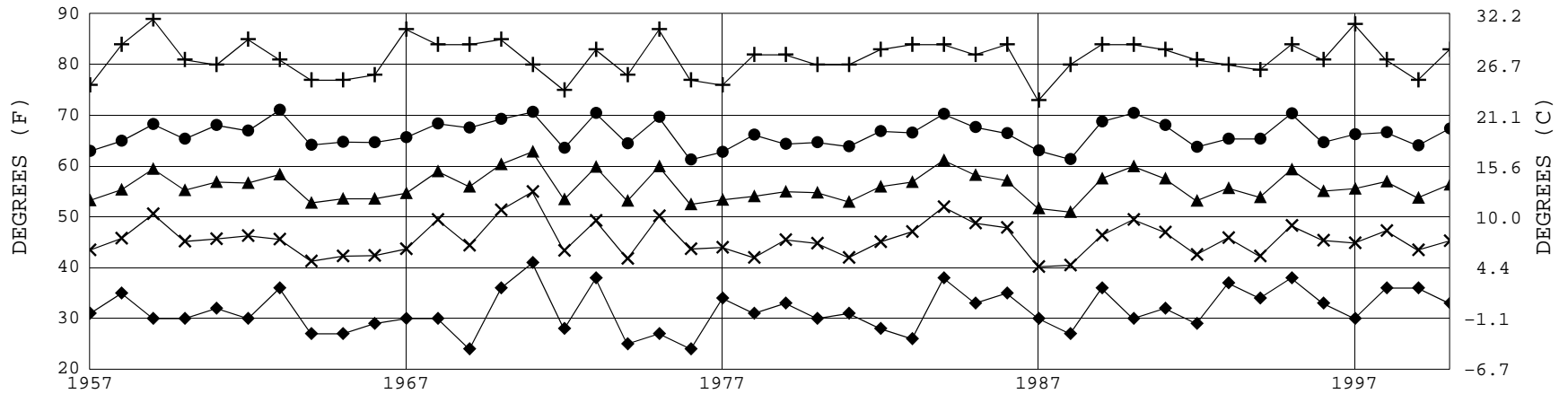
OCTOBER 2000

ILG

WBAN # 13781

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER		CEILING	OBSERVATION TIME (LST)		EFF CLD AMT Okltas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0624							OCT 25	SUNSET: 1709							SUNRISE: 0630							OCT 31	SUNSET: 1701						
01	FEW	NC			10.00		49	48	48	97	0	00	30.18	30.28	01	CLR	NC			10.00		40	27	35	60	8	31	30.01	30.11
04	CLR	NC			8.00		48	48	48	100	3	30	30.17	30.27	04	CLR	NC			10.00		40	28	35	63	16	31	30.00	30.10
07	CLR	NC			5.00	BR	50	47	48	89	5	32	30.21	30.30	07	CLR	NC			10.00		41	28	36	60	13	32	30.02	30.12
10	CLR	NC			7.00		64	53	58	68	10	03	30.22	30.32	10	CLR	NC			10.00		50	32	42	50	14	33	30.05	30.15
13	CLR	NC			7.00		70	55	61	59	6	07	30.19	30.28	13	CLR	NC			10.00		58	34	47	41	16	32	30.00	30.09
16	CLR	NC			9.00		70	55	61	59	3	12	30.16	30.26	16	CLR	NC			10.00		60	33	48	36	15	33	29.98	30.08
19	CLR	NC			6.00	HZ	62	56	59	81	7	16	30.19	30.28	19	CLR	NC			10.00		49	34	42	57	9	30	30.01	30.11
22	CLR	NC			4.00	BR	57	55	56	93	0	00	30.21	30.31	22	CLR	NC			10.00		46	30	39	54	6	33	30.04	30.14
SUNRISE: 0625							OCT 26	SUNSET: 1708							3-HOURLY OBSERVATION NOTES														
01	CLR	NC			1.75	BR	53	53	53	100	0	00	30.20	30.30	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.														
04	VV	001			<.25	FG	55	55	55	100	3	10	30.20	30.29	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.														
07	VV	001			<.25	FG	52	52	52	100	0	00	30.23	30.33	NC = No ceiling detected.														
10	OVC	001			0.50	FG	53	53	53	100	5	11	30.24	30.34	& = Original observation contained additional weather elements.														
13	CLR	NC			5.00	HZ	58	53	55	84	0	00	30.19	30.29	See page 3 for additional notes.														
16	CLR	NC			7.00		62	54	58	75	0	00	30.16	30.25															
19	CLR	NC			5.00	BR	57	54	55	90	3	35	30.15	30.24															
22	CLR	NC			3.00	BR	53	52	52	96	3	31	30.14	30.24															
SUNRISE: 0626							OCT 27	SUNSET: 1706																					
01	CLR	NC			2.50	BR	51	51	51	100	5	33	30.11	30.21															
04	CLR	NC			2.00	BR	52	52	52	100	0	00	30.08	30.17															
07	CLR	NC			1.00	BR	51	51	51	100	5	31	30.06	30.16															
10	CLR	NC			4.00	HZ	63	56	59	78	7	02	30.04	30.14															
13	CLR	NC			10.00		68	55	61	63	3	06	29.95	30.05															
16	CLR	NC			10.00		69	54	60	59	5	09	29.88	29.97															
19	CLR	NC			10.00		61	54	57	78	0	00	29.86	29.96															
22	CLR	NC			7.00		57	54	55	90	0	00	29.83	29.93															
SUNRISE: 0627							OCT 28	SUNSET: 1705																					
01	CLR	NC			6.00	BR	55	51	53	87	5	29	29.79	29.88															
04	CLR	NC			5.00	HZ	61	55	58	81	8	30	29.77	29.87															
07	CLR	NC			3.00	BR	58	55	56	90	9	31	29.82	29.91															
10	CLR	NC			10.00		61	41	51	48	21	32	29.89	29.99															
13	CLR	NC			10.00		60	29	46	31	18	34	29.95	30.05															
16	CLR	NC			10.00		55	24	42	30	22	33	30.00	30.09															
19	CLR	NC			10.00		48	19	37	32	16	33	30.07	30.17															
22	CLR	NC			10.00		43	23	35	45	13	33	30.14	30.24															
SUNRISE: 0628							OCT 29	SUNSET: 1704																					
01	CLR	NC			10.00		38	25	33	60	7	29	30.13	30.23															
04	CLR	NC			10.00		35	24	31	64	8	29	30.12	30.21															
07	CLR	NC			10.00		35	24	31	64	9	29	30.10	30.20															
10	CLR	NC			10.00		47	21	37	36	15	32	30.08	30.18															
13	CLR	NC			10.00		53	19	40	26	22	31	29.98	30.07															
16	BKN	085			10.00		53	21	40	29	21	29	29.96	30.06															
19	BKN	070			10.00		50	18	38	28	16	32	29.99	30.09															
22	CLR	NC			10.00		46	21	37	37	15	34	30.04	30.13															
SUNRISE: 0629							OCT 30	SUNSET: 1703																					
01	CLR	NC			10.00		38	23	32	55	5	32	30.04	30.14															
04	CLR	NC			10.00		38	24	33	57	6	28	30.02	30.11															
07	CLR	NC			10.00		34	24	30	67	7	27	30.02	30.12															
10	CLR	NC			10.00		49	26	40	41	15	32	30.01	30.11															
13	CLR	NC			10.00		54	28	43	37	18	30	29.95	30.05															
16	FEW	NC			10.00		55	28	43	36	16	32	29.95	30.05															
19	CLR	NC			10.00		49	25	39	39	18	36	30.02	30.11															
22	CLR	NC			10.00		46	25	38	44	13	34	30.03	30.13															

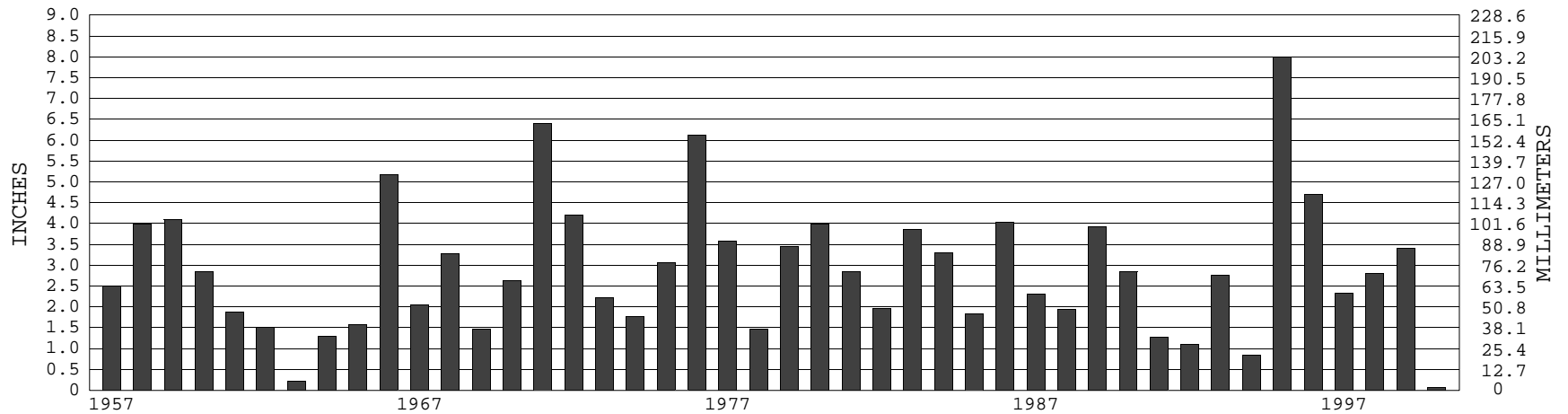
WILMINGTON, DE OCTOBER TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1957-2000) Mean: 56.0 1961-1990 Normal: 56.2

WILMINGTON, DE OCTOBER PRECIPITATION



Long-Term (1957-2000) Mean Monthly Total: 2.89

1961-1990 Normal: 2.88



**OCTOBER 2000
WILMINGTON, DE**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$24 for online delivery (including back issues) compared to \$32 for offline delivery.** To order this and other subscriptions online with your credit card, go to: www.ncdc.noaa.gov/mpp.html and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number : (304) 726–4409
TDD : 828–271–4010
or Email : info@ncdc.noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19