

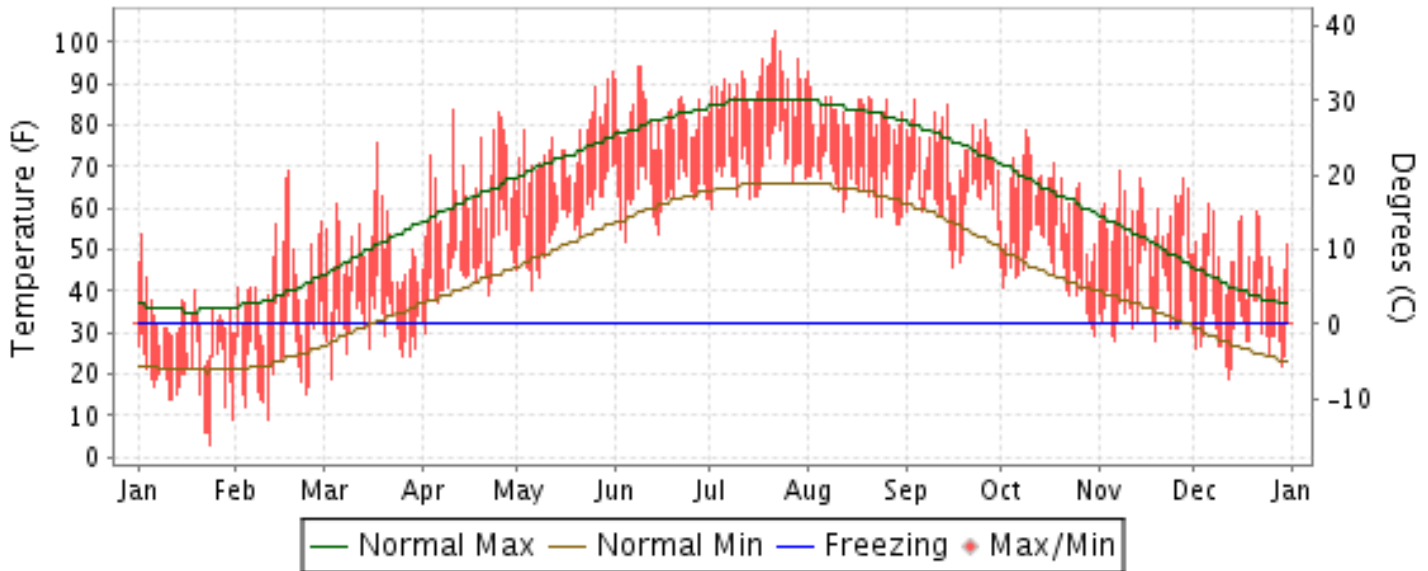


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

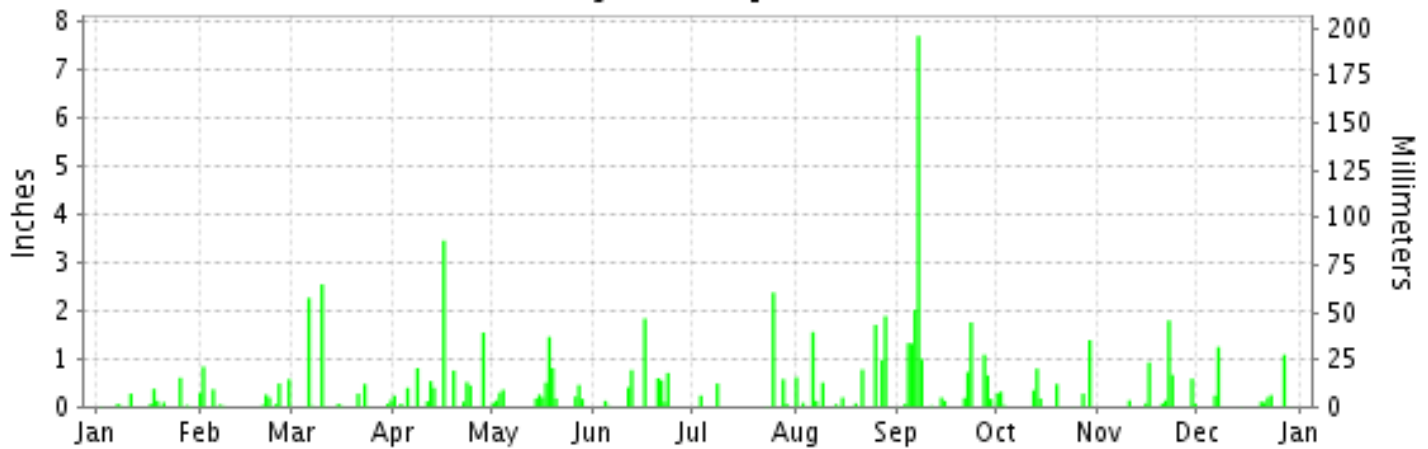
ISSN 0198-4519

HARRISBURG, PENNSYLVANIA (KMDT)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

HARRISBURG (KMDT)

LATITUDE: 40° 11'N LONGITUDE: -76° 45'W ELEVATION (FT): GRND: 312 BARO: 314 TIME ZONE: EASTERN (UTC -5) WBAN: 14711

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	33.4	43.1	49.9	63.9	74.3	82.1	90.0	82.8	74.8	62.6	57.6	47.7	63.5	
	HIGHEST DAILY MAXIMUM	54	69	76	84	93	94	103	93	86	79	69	61	103	
	DATE OF OCCURRENCE	02	18	18	11	31	09+	22	01	04	09	08	06	JUL 22	
	MEAN DAILY MINIMUM	19.1	24.1	31.7	44.9	55.7	63.4	69.8	65.4	60.3	45.2	37.3	30.2	45.6	
	LOWEST DAILY MINIMUM	3	9	19	30	40	52	60	56	46	29	28	19	3	
	DATE OF OCCURRENCE	24	11	03	02	06	04	02	30+	16	31	19+	12	JAN 24	
	AVERAGE DRY BULB	26.3	33.6	40.8	54.4	65.0	72.8	79.9	74.1	67.6	53.9	47.5	39.0	54.6	
	MEAN WET BULB	24.3		35.8	48.8	59.6	65.6	70.6	67.4		50.3		35.2		
	MEAN DEW POINT	17.0		27.2	43.2	55.8	60.8	65.7	63.9		46.0		29.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	3	17	1	0	0	0	0	0	23
MAXIMUM <= 32°	15	5	0	0	0	0	0	0	0	0	0	1	0	21	
MINIMUM <= 32°	31	23	17	1	0	0	0	0	0	3	11	22	0	108	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	1194	871	744	331	90	0	0	0	46	337	518	800	4931	
	COOLING DEGREE DAYS	0	0	0	18	99	240	472	287	130	0	0	0	1246	
RH	MEAN (PERCENT)	67	62	62	70	76	68	65	74	84	75	73	72	71	
	HOUR 01 LST	73	68	69	75	88	81	78	85	92	83	82	78	79	
	HOUR 07 LST	74	70	67	76	79	72	68	77	88	81	81	80	76	
	HOUR 13 LST	57	50	50	59	58	53	47	56	71	62	55	58	56	
	HOUR 19 LST	66	61	62	69	77	68	65	78	88	79	74	75	72	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	0	2	4	7	8	7	11	11	1	0	1	52	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.65	29.68	29.78	29.58	29.60	29.58	29.59	28.67	29.67	29.65	29.75	29.82	29.59	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.02	30.12	29.92	29.94	29.91	29.92	29.87		30.00	30.11	30.17		
WINDS	RESULTANT SPEED (MPH)	4.7	4.7	1.9	1.4	0.1	2.3	1.8	1.5	0.5	2.8	1.1	3.2	2.0	
	RES. DIR. (TENS OF DEGS.)	31	30	32	28	26	31	31	31	15	29	27	30	31	
	MEAN SPEED (MPH)	6.8	8.2	7.9	8.0	5.4	4.7	3.9	5.4	3.7	6.0	5.3	6.0	5.9	
	PREVAIL.DIR.(TENS OF DEGS.)	30	31	31	31	13	30	30	31	13	31	30	31	30	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	39	32	32	38	28	23	41	28	25	32	36	41	
	DIR. (TENS OF DEGS.)	32	32	32	31	28	33	35	32	29	28	29	29	32	
	DATE OF OCCURRENCE	09	19	07	11	26	04	18	01	29	15	23	28	AUG 01	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	51	43	45	58	38	31	51	37	38	41	44	58	
DIR. (TENS OF DEGS.)	31	30	32	26	29	32	34	32	29	26	29	30	29		
DATE OF OCCURRENCE	21	19	07	17	26	02	29	28	29	15	23	28	MAY 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.78	3.22	5.99	9.46	5.34	5.17	3.78	8.65	18.43	4.15	4.50	3.26	73.73	
	GREATEST 24-HOUR (IN.)	0.61	0.97	2.55	3.46	2.13	1.84	2.38	2.87	8.24	1.39	2.40	1.25	8.24	
	DATE OF OCCURRENCE	26	01-02	10	16	18-19	16	25	27-28	07-08	29	22-23	07	SEP 07-08	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	12	11	13	15	14	10	6	14	17	11	9	9	141	
PRECIPITATION 0.10	5	7	5	12	13	8	4	9	13	8	6	7	97		
PRECIPITATION 1.00	0	0	2	2	1	1	1	3	7	1	1	2	21		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	16.6	6.5	1.1	0.1	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.1	29.9	
	GREATEST 24-HOUR (IN.)	6.4	2.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.1	6.4	
	DATE OF OCCURRENCE	26	21	06	01						29		29	JAN 26	
	MAXIMUM SNOW DEPTH (IN.)	6	4	1	0	0	0	0	0	0	3	0	0	6	
	DATE OF OCCURRENCE	27	22+	07							31+			JAN 27	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	3	0	0	0	0	0	0	0	1	0	0	8		

NORMALS, MEANS, AND EXTREMES HARRISBURG (KMDT)

LATITUDE:
40° 11'N

LONGITUDE:
-76° 45'W

ELEVATION (FT):
GRND: 312 BARO: 314

TIME ZONE:
EASTERN (UTC -5)

WBAN: 14711

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.5	40.9	50.9	62.6	72.6	80.8	85.7	83.7	75.7	64.3	52.5	41.7	62.4
	MEAN DAILY MAXIMUM	47	37.9	39.9	49.9	61.8	71.9	78.9	85.1	82.9	75.5	65.3	52.7	41.1	61.9
	HIGHEST DAILY MAXIMUM	73	73	78	87	93	97	100	107	101	102	97	84	75	107
	YEAR OF OCCURRENCE		1950	1997	1998	1985	1942	1966	1966	1944	1953	1941	1950	1998	JUL 1966
	MEAN OF EXTREME MAXS.	72	58.3	59.1	71.2	83.2	88.2	92.8	95.9	94.0	89.6	81.0	70.3	60.7	78.7
	NORMAL DAILY MINIMUM	30	23.1	24.7	32.5	41.5	51.4	60.6	66.0	64.2	56.7	44.6	36.1	27.8	44.1
	MEAN DAILY MINIMUM	47	23.5	24.1	31.9	41.5	51.1	59.7	65.5	63.6	56.1	45.0	35.5	26.6	43.7
	LOWEST DAILY MINIMUM	73	-22	-5	5	19	31	40	49	45	30	23	13	-8	-22
	YEAR OF OCCURRENCE		1994	1979	1984	1982	1966	1980	1945	1976	1963	2000	1955	1960	JAN 1994
	MEAN OF EXTREME MINS.	72	8.1	9.5	18.4	29.0	38.4	49.2	56.8	53.8	42.4	31.5	22.4	11.9	31.0
	NORMAL DRY BULB	30	28.6	31.3	41.2	51.6	61.8	70.9	75.7	74.1	66.4	54.7	44.4	33.6	52.9
	MEAN DRY BULB	71	30.1	31.8	41.1	51.9	61.9	70.4	75.4	73.6	66.0	55.0	44.2	34.0	53.0
	MEAN WET BULB	20	33.1	37.2	39.5	48.4	56.2	64.2	67.2	66.6	61.8	52.7	46.2	36.2	50.8
	MEAN DEW POINT	20	31.6	32.8	38.2	46.4	54.4	62.9	66.2	65.5	60.3	51.2	43.9	34.2	49.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	1.9	5.2	9.1	5.1	1.1	0.0	0.0	0.0	0.0
	MAXIMUM <= 32	30	8.7	5.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.6	0.0
	MINIMUM <= 32	30	25.3	22.4	16.0	2.6	0.0	0.0	0.0	0.0	0.0	0.6	11.8	23.0	0.0
MINIMUM <= 0	30	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	1076	901	723	390	148	14	0	1	52	338	621	937	
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	54	186	337	279	87	11	0	0	
RH	NORMAL (PERCENT)	30													
	HOURLY 01 LST	30													
	HOURLY 07 LST	30													
	HOURLY 13 LST	30													
	HOURLY 19 LST	30													
S	PERCENT POSSIBLE SUNSHINE	62	48	54	57	58	59	64	67	66	61	58	47	44	57
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	23	2.1	2.1	1.8	1.0	0.7	0.4	0.7	0.6	1.1	1.7	1.4	1.8	15.4
	THUNDERSTORMS	38	0.2	0.2	0.6	2.2	3.8	4.6	4.8	4.3	2.4	0.7	0.2	0.1	24.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	5.4	5.3	5.3	5.2	5.2	4.9	4.9	4.7	4.7	4.6	5.2	5.6	5.1
	MIDNIGHT-MIDNIGHT (OKTAS)	8	5.4	5.1	5.2	5.0	4.8	5.3	4.9	4.6	4.6	3.5	4.6	5.3	4.9
	MEAN NO. DAYS WITH: CLEAR	62	6.5	6.6	7.1	6.5	5.9	6.4	7.0	7.7	8.5	9.8	6.3	6.1	84.4
	PARTLY CLOUDY	62	7.8	7.4	8.3	8.7	10.9	11.7	11.7	11.3	9.5	8.4	8.2	7.5	111.4
	CLOUDY	62	16.7	14.3	15.4	14.9	14.3	11.9	11.9	11.6	11.6	12.4	15.2	16.8	167.0
PR	MEAN STATION PRESSURE (IN)	20	29.72	29.71	29.69	29.65	29.66	29.64	29.65	29.63	29.72	29.71	29.74	29.74	29.69
	MEAN SEA-LEVEL PRES. (IN)	20	30.08	30.07	30.04	29.98	29.98	29.96	29.97	30.01	30.05	30.08	30.10	30.10	30.04
WINDS	MEAN SPEED (MPH)	20	9.0	9.2	9.6	9.0	7.6	6.7	6.1	5.7	6.1	6.4	7.7	8.5	7.6
	PREVAIL. DIR. (TENS OF DEGS)	24	31	31	32	31	31	31	31	31	31	31	31	31	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	45	45	40	41	38	46	39	41	48	39	44	41	48
	DIR. (TENS OF DEGS)		30	28	27	27	28	30	31	32	13	30	31	32	13
	YEAR OF OCCURRENCE		2006	2008	2008	2010	2011	2006	2010	2011	2003	2008	2003	2008	SEP 2003
	MAXIMUM 3-SECOND SPEED (MPH)	11	54	56	55	63	58	53	48	51	60	54	56	56	63
	DIR. (TENS OF DEGS)		30	26	30	25	29	31	31	32	12	29	31	23	25
YEAR OF OCCURRENCE		2006	2009	2002	2010	2011	2006	2010	2011	2003	2008	2003	2009	APR 2010	
PRECIPITATION	NORMAL (IN)	30	3.18	2.88	3.58	3.31	4.60	3.99	3.21	3.24	3.65	3.06	3.53	3.22	41.45
	MAXIMUM MONTHLY (IN)	33	8.01	5.93	6.32	9.46	9.71	8.62	8.09	8.65	18.43	7.78	6.23	7.57	18.43
	YEAR OF OCCURRENCE		1979	1981	1993	2011	1989	2006	1994	2011	2011	2005	1985	1983	SEP 2011
	MINIMUM MONTHLY (IN)	33	0.43	0.39	0.68	0.45	.88	1.00	0.97	0.53	0.65	0.47	0.92	0.31	0.31
	YEAR OF OCCURRENCE		1981	2002	2006	1985	2005	1988	1983	1995	1986	2000	1998	1998	DEC 1998
	MAXIMUM IN 24 HOURS (IN)	33	2.09	2.40	2.69	3.46	3.42	4.56	3.84	3.04	8.24	3.97	3.27	2.58	8.24
	YEAR OF OCCURRENCE		1979	2007	2008	2011	2010	2006	1994	2004	2011	2005	1993	1993	SEP 2011
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.4	9.8	11.1	10.2	12.1	10.1	10.9	8.4	10.1	7.3	8.3	9.5	119.2
PRECIPITATION >= 1.00	30	0.6	0.0	1.1	0.9	0.6	0.8	0.9	1.1	1.3	0.9	0.8	0.8	9.8	
SNOWFALL	NORMAL (IN)	30	15.7	15.2	9.6	0.3	T	0.0	0.0	0.0	0.0	T	2.0	11.0	53.8
	MAXIMUM MONTHLY (IN)	33	38.9	42.1	22.8	10.2	0.0	T	0.0	T	0.0	5.5	9.7	17.4	42.1
	YEAR OF OCCURRENCE		1996	2010	1993	1982		1993		1993		2011	1987	1995	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	31	21.7	14.2	20.4	4.0	0.0	T	0.0	T	0.0	5.5	7.9	9.1	21.7
	YEAR OF OCCURRENCE		1996	1979	1993	1996		1993		1993		2011	1987	1990	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	38	20	23	20	1	0	0	0	0	0	3	12	13	23
	YEAR OF OCCURRENCE		1961	1961	1993	1959						2011	1953	1951	FEB 1961
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.0	4.2	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.7	12.8	

PRECIPITATION (inches) 2011 HARRISBURG (KMDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	3.63	1.92	2.20	4.17	4.89	8.12	2.90	2.47	2.87	1.82	3.37	1.56	39.92
1983	2.26	3.38	4.86	7.96	5.36	2.81	0.97	2.50	1.40	4.21	5.29	7.57	48.57
1984	1.12	4.51	5.36	4.46	6.20	6.36	3.76	2.75	1.49	1.98	3.78	2.28	44.05
1985	1.06	2.91	2.78	0.45	6.29	3.07	2.50	2.14	3.76	1.34	6.23	1.28	33.81
1986	2.24	4.50	3.16	4.10	2.29	1.48	5.17	6.26	0.65	2.59	4.58	4.90	41.92
1987	3.69	1.59	1.43	2.93	3.73	3.46	1.96	2.89	8.41	2.63	4.96	1.84	39.52
1988	2.18	3.28	1.98	2.65	5.79	1.00	4.40	2.67	2.42	1.81	3.67	0.90	32.75
1989	2.29	1.90	3.60	1.10	9.71	6.02	7.20	3.03	2.63	5.59	2.17	1.27	46.51
1990	3.77	2.73	1.76	2.60	7.20	1.10	3.62	6.14	1.65	4.92	2.58	6.05	44.12
1991	2.61	1.39	3.54	2.00	3.15	1.08	1.99	5.29	1.35	3.15	2.08	3.49	31.12
1992	1.62	1.56	5.13	2.62	3.17	1.90	3.54	1.45	5.65	1.64	4.82	2.42	35.52
1993	2.39	2.32	6.32	6.49	1.96	3.20	3.65	3.45	7.84	2.66	4.17	3.95	48.40
1994	5.00	3.24	6.22	2.96	2.73	1.81	8.09	4.94	2.33	0.74	5.18	2.92	46.16
1995	3.52	1.52	0.95	2.22	3.52	4.16	5.81	0.53	1.95	5.43	3.67	2.53	35.81
1996	5.87	1.60	3.26	4.69	3.93	6.33	7.06	2.22	3.35	4.26	3.88	5.98	52.43
1997	2.00	1.47	3.44	0.92	3.66	2.41	4.82	3.60	2.52	1.50	3.97	2.01	32.32
1998	4.49	5.05	4.36	5.17	6.37	5.82	4.86	3.88	1.81	2.92	0.92	0.31	45.96
1999	4.94	1.90	2.55	2.80	1.39	1.87	2.96	3.92	9.11	2.65	1.66	2.57	38.32
2000	2.01	2.33	6.06	2.63	4.03	4.09	2.32	4.14	8.61	0.47	1.55	3.99	42.23
2001	2.44	1.48	4.19	1.72	1.66	2.01	1.90	3.79	2.18	1.01	1.51	1.87	25.76
2002	2.45	0.39	5.05	3.79	4.40	2.38	1.27	2.69	3.68	6.37	3.77	4.60	40.84
2003	2.29	4.25	4.40	2.50	5.40	7.31	5.09	6.19	6.10	4.73	2.97	3.40	54.63
2004	2.07	2.27	2.03	5.12	3.47	4.31	7.97	7.08	10.50	2.30	2.85	3.37	53.34
2005	4.41	1.91	3.82	4.93	0.88	1.38	6.31	1.74	0.80	7.78	2.09	2.72	38.77
2006	4.20	2.40	0.68	3.16	2.16	8.62	5.13	1.41	5.53	5.01	5.48	2.30	46.08
2007	2.37	2.99	3.63	3.31	1.07	3.70	4.22	5.84	4.42	3.40	2.58	5.11	42.64
2008	1.09	5.77	4.68	3.86	5.41	2.54	3.53	1.09	6.61	1.91	2.93	6.83	46.25
2009	1.92	0.65	1.25	3.69	6.99	6.14	3.20	4.84	3.95	6.10	1.61	4.99	45.33
2010	2.27	2.91	3.42	1.70	5.08	4.13	5.80	1.72	5.47	2.54	2.42	1.97	39.43
2011	1.78	3.22	5.99	9.46	5.34	5.17	3.78	8.65	18.43	4.15	4.50	3.26	73.73
POR= 71 YRS	2.89	2.58	3.52	3.37	4.15	3.79	3.86	3.46	3.84	3.04	3.38	3.27	41.15

WBAN : 14711

AVERAGE TEMPERATURE (°F) 2011 HARRISBURG (KMDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	22.8	30.9	38.6	47.6	62.2	65.1	74.4	70.5	65.3	55.1	47.6	41.4	51.8
1983	33.0	33.4	42.7	49.3	58.4	69.1	75.9	74.9	66.2	53.6	43.9	28.7	52.4
1984	24.8	36.6	33.7	48.0	58.2	72.9	74.3	75.8	64.4	61.5	43.9	41.5	53.0
1985	27.9	34.4	44.5	56.9	65.2	69.4	75.9	74.1	69.2	57.2	47.9	31.0	54.5
1986	31.4	30.0	43.5	53.5	65.6	71.4	76.3	72.0	66.2	56.0	41.2	36.1	53.6
1987	30.0	32.3	44.1	52.3	63.2	72.6	78.2	73.1	65.7	49.4	43.9	36.6	53.5
1988	24.4	31.8	42.4	50.0	62.3	70.8	78.8	76.2	63.5	49.5	43.7	33.3	52.2
1989	34.8	32.4	40.4	50.4	60.0	70.6	73.7	72.6	66.0	55.6	42.7	22.6	51.8
1990	38.2	38.2	44.9	53.1	59.4	71.2	75.2	72.7	65.0	58.2	46.9	38.4	55.1
1991	31.7	37.4	43.7	53.7	69.1	74.2	78.7	76.2	65.4	56.9	43.7	36.5	55.6
1992	33.0	35.7	40.3	51.8	60.2	69.3	75.0	71.6	65.5	51.3	44.3	35.3	52.8
1993	34.8	28.8	36.6	51.3	64.6	72.1	78.0	75.9	65.6	52.8	43.9	34.0	53.2
1994	20.3	26.7	38.1	56.8	59.8	76.2	78.7	71.6	65.9	53.8	49.0	38.5	53.0
1995	34.8	29.1	44.7	50.9	61.9	71.6	77.9	77.4	66.9	59.0	39.6	29.6	53.6
1996	26.2	31.8	37.7	52.5	60.0	73.2	74.1	74.0	67.2	54.9	39.6	37.3	52.4
1997	29.8	38.3	42.5	51.1	59.6	71.4	77.4	74.0	67.1	56.2	41.6	36.0	53.8
1998	38.2	40.4	44.5	54.6	66.8	70.8	75.3	75.1	70.6	55.9	45.9	40.7	56.6
1999	30.7	36.5	41.2	53.9	65.0	73.2	81.9	75.2	68.3	54.0	49.3	37.4	55.6
2000	30.2	34.7	47.5	52.4	65.1	72.2	73.2	73.7	65.3	55.6	43.5	26.5	53.3
2001	28.4	34.8	38.1	51.5	62.4	72.6	73.2	76.8	65.1	55.7	48.8	39.8	53.9
2002	35.7	37.4	42.2	54.8	59.9	72.1	78.2	77.8	68.9	52.9	42.7	31.0	54.5
2003	25.7	26.7	39.8	50.6	58.9	68.2	75.1	75.4	66.2	52.3	47.7	34.2	51.7
2004	23.9	30.9	43.5	53.0	68.3	70.0	74.3	72.8	68.0	54.1	47.7	35.3	53.5
2005	31.1	34.4	38.1	54.5	59.5	75.0	77.6	77.1	71.2	56.8	46.1	30.3	54.3
2006	38.3	33.5	43.3	54.6	62.3	71.7	77.9	76.1	64.1	53.7	47.4	40.2	55.3
2007	35.2	25.7	41.1	49.2	65.2	73.5	75.0	75.0	69.7	62.0	42.9	34.7	54.1
2008	32.9	32.0	41.6	54.4	58.6	74.5	76.9	72.9	68.0	53.1	43.3	34.7	53.6
2009	25.9	34.2	41.9	53.5	62.5	70.2	73.0	75.4	65.7	53.4	48.2	33.5	53.1
2010	30.8	30.4	47.5	56.2	65.1	74.8	79.4	76.3	69.6	55.9	44.8	30.7	55.1
2011	26.3	33.6	40.8	54.4	65.0	72.8	79.9	74.1	67.6	53.9	47.5	39.0	54.6
POR= 71 YRS	30.1	31.8	41.1	51.9	61.9	70.4	75.4	73.6	66.0	55.0	44.2	34.0	52.9

HEATING DEGREE DAYS (base 65°F) 2011 HARRISBURG (KMDT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	7	12	67	318	520	725	985	876	686	468	221	25	4910
1983-84	0	2	103	362	628	1117	1238	817	962	502	240	11	5982
1984-85	0	0	105	131	627	724	1143	849	627	292	87	16	4601
1985-86	0	0	41	237	508	1049	1038	974	664	349	89	9	4958
1986-87	2	17	46	300	705	890	1080	907	643	380	142	2	5114
1987-88	0	8	51	477	627	873	1252	961	693	445	131	41	5559
1988-89	4	5	88	475	633	975	931	912	760	433	196	9	5421
1989-90	1	6	81	292	663	1306	824	744	629	385	175	13	5119
1990-91	5	8	96	248	535	816	1026	769	651	345	69	2	4570
1991-92	0	0	103	279	634	877	986	842	761	392	170	16	5060
1992-93	0	3	86	420	615	914	931	1005	875	405	67	15	5336
1993-94	0	2	99	371	628	954	1382	1067	828	260	195	2	5788
1994-95	0	3	41	340	475	815	928	999	623	420	126	3	4773
1995-96	0	0	64	218	755	1090	1196	960	840	376	208	3	5710
1996-97	0	0	54	307	756	852	1083	741	688	410	175	32	5098
1997-98	1	1	46	318	696	892	824	680	653	305	67	29	4512
1998-99	0	1	24	278	565	748	1059	792	733	329	61	6	4596
1999-00	0	0	36	334	464	850	1075	872	534	375	101	16	4657
2000-01	0	4	99	293	638	1187	1127	836	826	402	112	16	5540
2001-02	1	0	82	288	477	774	900	766	699	343	189	5	4524
2002-03	0	1	22	395	663	1047	1213	1067	774	427	193	51	5853
2003-04	0	0	28	384	513	950	1267	985	657	361	54	20	5219
2004-05	0	4	17	330	514	913	1045	849	827	309	179	5	4992
2005-06	0	0	17	267	560	1071	818	878	667	306	133	2	4719
2006-07	0	0	73	350	522	763	915	1089	735	465	97	7	5016
2007-08	0	11	32	165	655	936	986	952	718	314	210	2	4981
2008-09	0	0	34	368	641	932	1205	853	709	371	120	25	5258
2009-10	0	2	48	353	499	966	1055	962	534	276	112	4	4811
2010-11	0	0	15	280	598	1058	1194	871	744	331	90	0	5181
2011-	0	0	46	337	518	800							

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COOLING DEGREE DAYS (base 65°F) 2011 HARRISBURG (KMDT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	2	48	70	307	191	83	19	4	0	724
1983	0	0	0	6	22	154	343	315	146	13	0	0	999
1984	0	0	0	0	34	256	292	342	95	35	0	1	1055
1985	0	0	0	55	99	157	345	290	173	4	0	0	1123
1986	0	0	5	12	116	205	360	238	88	27	0	0	1051
1987	0	0	0	9	94	237	418	266	76	0	0	0	1100
1988	0	0	0	0	53	219	439	355	52	4	0	0	1122
1989	0	0	5	0	49	182	279	249	114	9	1	0	888
1990	0	0	14	34	12	205	330	254	102	43	0	0	994
1991	0	0	0	16	202	284	429	355	118	31	0	0	1435
1992	0	0	0	1	29	151	314	214	108	0	0	0	817
1993	0	0	0	0	63	236	410	348	127	0	0	0	1184
1994	0	0	0	20	40	343	428	213	76	0	1	0	1121
1995	0	0	0	6	41	208	409	392	124	36	0	0	1216
1996	0	0	0	9	61	253	286	288	126	1	0	0	1024
1997	0	0	0	0	14	230	392	283	117	50	0	0	1086
1998	0	0	24	1	130	209	326	323	199	0	0	0	1212
1999	0	0	0	0	72	260	530	323	142	1	0	0	1328
2000	0	0	0	5	110	235	262	280	115	8	0	0	1015
2001	0	0	0	5	39	250	260	371	94	8	0	0	1027
2002	0	0	0	45	38	227	417	402	145	26	0	0	1300
2003	0	0	0	2	10	153	319	328	70	0	0	0	882
2004	0	0	0	7	165	176	298	253	118	1	0	0	1018
2005	0	0	0	3	19	311	398	382	212	18	0	0	1343
2006	0	0	0	2	54	211	409	350	53	7	0	0	1086
2007	0	0	0	0	107	268	319	328	178	81	0	0	1281
2008	0	0	0	0	18	293	378	252	131	6	0	0	1078
2009	0	0	0	33	49	186	255	334	74	0	0	0	931
2010	0	0	0	20	122	305	454	356	160	4	0	0	1421
2011	0	0	0	18	99	240	472	287	130	0	0	0	1246

SNOWFALL (inches) 2011 HARRISBURG (KMDT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	T	T	1.1	4.4	28.8	0.4	1.3	0.0	0.0	36.0
1983-84	0.0	0.0	0.0	0.0	T	4.6	9.7	2.3	14.9	T	0.0	0.0	31.5
1984-85	0.0	0.0	0.0	0.0	1.9	2.6	10.6	11.4	T	3.6	0.0	0.0	30.1
1985-86	0.0	0.0	0.0	0.0	T	5.6	7.8	23.1	T	T	0.0	0.0	36.5
1986-87	0.0	0.0	0.0	0.0	T	1.9	31.5	10.1	1.4	1.0	0.0	0.0	45.9
1987-88	0.0	0.0	0.0	0.0	9.7	3.6	9.6	2.8	1.0	T	0.0	0.0	26.7
1988-89	0.0	0.0	0.0	0.0	T	T	6.4	2.2	11.3	0.0	0.0	0.0	19.9
1989-90	0.0	0.0	0.0	0.0	1.8	6.7	4.9	1.3	3.5	1.1	0.0	0.0	19.3
1990-91	0.0	0.0	0.0	0.0	0.0	9.3	5.2	0.7	5.9	T	0.0	0.0	21.1
1991-92	0.0	0.0	0.0	0.0	0.0	T	1.7	4.6	6.6	0.0	0.0	T	12.9
1992-93	0.0	0.0	0.0	0.0	T	3.9	1.4	18.5	22.8	0.6	0.0	T	47.2
1993-94	0.0	T	0.0	0.0	T	0.9	34.2	22.0	18.8	0.0	0.0	0.0	75.9
1994-95	0.0	0.0	0.0	0.0	0.5	0.5	0.6	5.6	1.8	0.0	0.0	0.0	9.0
1995-96	0.0	0.0	0.0	0.0	8.1	17.4	38.9	6.3	2.3	4.6			
1996-97	0.0	0.0	0.0	0.0	.2	6.1	3.7	6.9	5.9	0.0	0.0	0.0	22.8
1997-98	0.0	0.0	0.0	0.0	0.3	4.8	5.3	0.4	0.6	0.0	0.0	0.0	11.4
1998-99	0.0	0.0	0.0	0.0	0.0	0.8	7.4	1.3	10.6	0.0	0.0	0.0	20.1
1999-00	0.0	0.0	0.0	0.0	T	0.1	15.0	7.2	0.0	0.6	0.0	0.0	22.9
2000-01	0.0	0.0	0.0	0.0	T	5.6	9.4	9.5	3.5	T	0.0	0.0	28.0
2001-02	0.0	0.0	0.0	0.0	0.0	T	8.8	0.3	1.5	0.0	0.0	0.0	10.6
2002-03	0.0	0.0	0.0	0.0	1.0	15.8	7.3	29.8	1.8	2.0	0.0	0.0	57.7
2003-04	0.0	0.0	0.0	0.0	0.0	11.6	12.4	4.0	6.6	0.0	0.0	0.0	34.6
2004-05	0.0	0.0	0.0	0.0	0.0	T	9.5	17.1	1.3	0.0	0.0	0.0	27.9
2005-06	0.0	0.0	0.0	0.0	0.1	12.2	T	5.7	T	T	0.0	0.0	18.0
2006-07	0.0	0.0	0.0	0.0	0.0	T	0.6	9.2	11.5	T	0.0	0.0	21.3
2007-08	0.0	0.0	0.0	0.0	0.5	2.8	2.0	7.9	0.8	0.0	0.0	0.0	14.0
2008-09	0.0	0.0	0.0	0.0	1.4	4.3	6.8	0.7	2.3	T	0.0	0.0	15.5
2009-10	0.0	0.0	0.0	0.0	0.0	14.1	1.1	42.1	0.0	0.0	0.0	0.0	57.3
2010-11	0.0	0.0	0.0	0.0	0.1	0.7	16.6	6.5	1.1	0.1	0.0	0.0	25.1
2011-	0.0	0.0	0.0	5.5	0.0	0.1							
POR= 42 YRS	0.0	T	0.0	0.1	1.5	5.9	9.5	9.4	5.7	0.5	0.0	T	32.6

WBAN : 14711

REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</p>	<p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 HARRISBURG PENNSYLVANIA (KMDT)

Harrisburg, the capital of Pennsylvania, is situated on the east bank of the Susquehanna River. It is in the Great Valley formed by the eastern foothills of the Appalachian Chain, and about 60 miles southeast of the Commonwealths geographic center. It is nested in a saucer-like bowl, 10 miles south of Blue Mountain, which serves as a barrier to provide a modifying influence upon the severe winter climate experienced 50 to 100 miles to the north and west. Although the severity of the winter climate is lessened, the city lies a little too far inland to derive the full benefits of the coastal Climate.

Air masses change with some regularity, and any one condition does not persist for many days in succession. The mountain barrier occasionally prevents cold waves from reaching the Great Valley. The city is favorably located to receive precipitation produced when warm, maritime air from the Atlantic Ocean is forced upslope to cross the Blue Ridge Mountains.

The Growing Season is 192 days.

During June 1992, Hurricane Agnes produced 15.11 inches of rain from the 20th to the 23rd. Prolonged dry spells occur occasionally. During September and October 1947 there were 35 consecutive days with less than .01 inches of precipitation.

Flood stage on the Susquehanna River occurs on the average of about every three years in Harrisburg, but serious flooding is much less frequent. About one-third of all floods have occurred during March. Tropical hurricanes rarely reach Harrisburg with destructive winds.

Station History

HARRISBURG, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
MIDDLETOWN HARRISBURG INTL AP	1991-10-01	2000-12-01	40° 12'	-76° 46'	303		AIRWAYS, COOP
MIDDLETOWN OLMSTED STATE AP	1928-04-01	1934-12-31	40° 12'	-76° 40'			MILITARY
MIDDLETOWN OLMSTED STATE AP	1948-05-01	1953-01-01	40° 12'	-76° 45'	302		COOP, MILITARY
MIDDLETOWN OLMSTED STATE AP	1959-07-01	1967-06-30	40° 12'	-76° 46'	371		MILITARY
MIDDLETOWN HARRISBURG INTL AP	2003-07-15	Present	40° 11'	-76° 45'	312		AIRWAYS, ASOS, COOP
MIDDLETOWN OLMSTED STATE AP	1948-01-01	1948-05-01	40° 12'	-76° 45'			MILITARY
MIDDLETOWN OLMSTED STATE AP	1953-01-01	1959-07-01	40° 12'	-76° 46'	305		COOP, MILITARY
MIDDLETOWN HARRISBURG INTL AP	1972-12-01	1991-10-01	40° 12'	-76° 46'	310		AIRWAYS
MIDDLETOWN OLMSTED STATE AP	1944-01-01	1948-01-01	40° 12'	-76° 46'			MILITARY
MIDDLETOWN OLMSTED STATE AP	1935-02-01	1935-09-30	40° 12'	-76° 40'			MILITARY
MIDDLETOWN HARRISBURG INTL AP	2000-12-01	2003-07-15	40° 11'	-76° 45'	303		AIRWAYS, ASOS, COOP
MIDDLETOWN OLMSTED STATE AP	1937-03-01	1944-01-01	40° 12'	-76° 40'			MILITARY
MIDDLETOWN OLMSTED STATE AP	1970-01-01	1972-12-01	40° 12'	-76° 46'	310		AIRWAYS

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-07-01	2003-07-15	DAILY	2400	HYGR		
PRECIP	2003-07-15	Present	DAILY	2400	TB	RCRD	
TEMP	2003-07-15	Present	DAILY	2400	HYGR		
PRECIP	1991-10-01	1995-07-01	DAILY	2400	UNIV	RCRD	ROOF
TEMP	1991-10-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	2003-07-15	HOURLY	2400	UNIV	RCRD	ROOF
PRECIP	1995-07-01	2003-07-15	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1991-10-01	1995-07-01	HOURLY	2400			
PRECIP	2003-07-15	Present	HOURLY	2400	TB	RCRD	

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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