

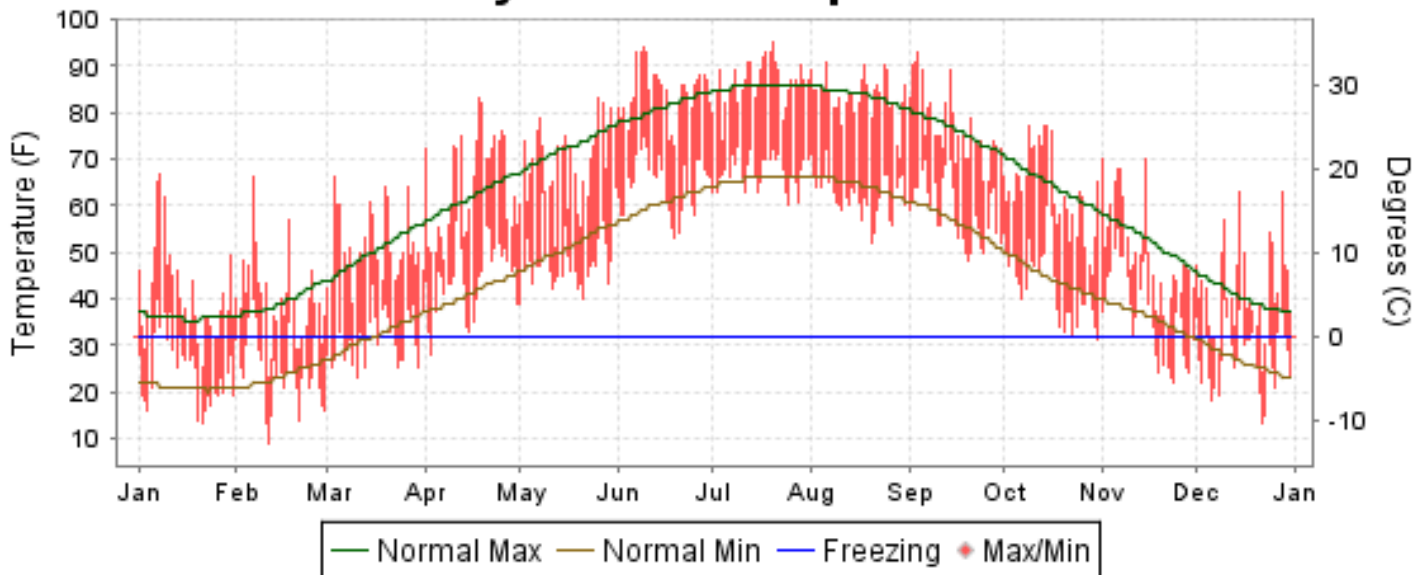


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

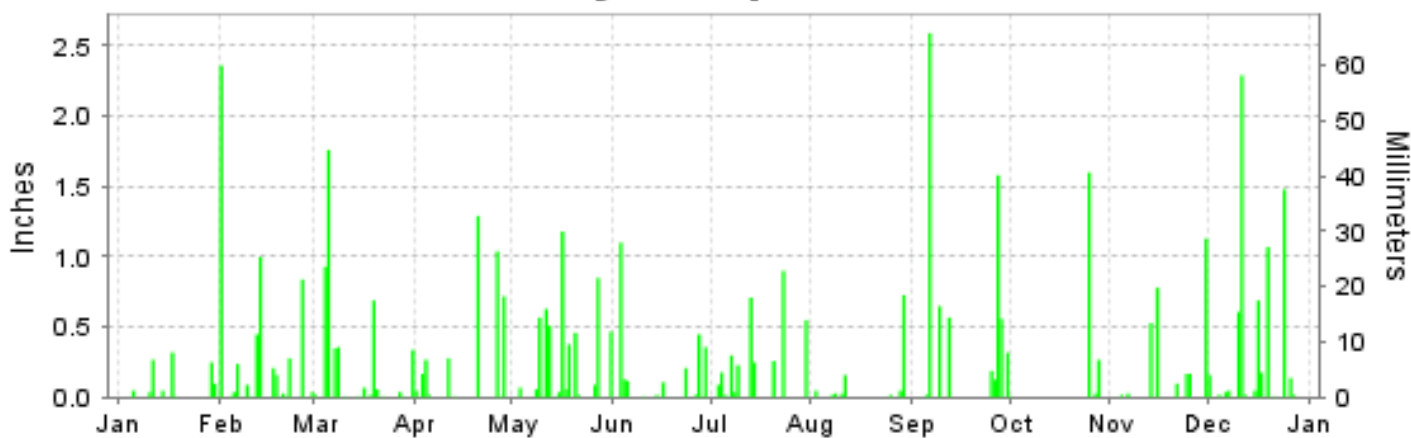
ISSN 0198-4519

## HARRISBURG, PENNSYLVANIA (KMDT)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## HARRISBURG (KMDT)

LATITUDE: 40° 11'N      LONGITUDE: -76° 45'W      ELEVATION (FT): GRND: 300    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	41.1	39.6	51.3	64.3	69.3	84.4	86.5	83.5	77.1	63.1	50.0	41.9	62.7	
	HIGHEST DAILY MAXIMUM	67	66	66	83	83	94	95	91	93	77	70	63	95	
	DATE OF OCCURRENCE	08	06	03	18	26	09	20	06	04	15+	15+	28+	JUL 20	
	MEAN DAILY MINIMUM	24.7	24.3	31.9	44.4	47.8	64.5	67.3	62.3	58.9	43.1	36.6	27.5	44.4	
	LOWEST DAILY MINIMUM	13	9	23	28	39	53	60	52	48	31	22	13	9	
	DATE OF OCCURRENCE	21	11	10	03	01	19	25	20	20	31	24	22	FEB 11	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	29.5	29.6	36.4	48.2	53.2	66.3	69.1	64.0	62.3	47.8	39.2	31.7	48.1	
	MEAN DEW POINT	21.4	23.9	28.2	41.2	47.9	61.6	64.9	58.6	58.4	42.4	33.4	25.6	42.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	4	8	3	3	0	0	0	0	18
MAXIMUM <= 32°	5	6	0	0	0	0	0	0	0	0	0	5	16		
MINIMUM <= 32°	26	25	17	1	0	0	0	0	0	2	12	24	107		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	986	952	718	314	210	2	0	0	34	368	641	932	5157	
	COOLING DEGREE DAYS	0	0	0	0	18	293	378	252	131	6	0	0	1078	
RH	MEAN (PERCENT)	64	73	63	65	70	67	70	65	74	71	70	71	69	
	HOUR 01 LST	73	74	73	76	82	81	83	80	85	83	75	75	78	
	HOUR 07 LST	73	77	69	71	74	71	75	70	81	80	77	78	75	
	HOUR 13 LST	51	65	50	51	54	50	51	45	56	49	59	65	54	
	HOUR 19 LST	62	75	62	64	71	67	69	64	77	72	73	70	69	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	6	3	2	0	1	1	0	0	3	2	5	24	
	THUNDERSTORMS	0	0	0	0	0	1	10	5	4	0	0	0	20	
CLOUDNESS	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.)	29.78	29.67	29.71	29.72	29.52	29.60	29.61	29.62	29.75	29.80	29.70	29.77	29.69	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.01	30.05	30.07	29.86	29.93	29.94	29.95	30.10	30.15	30.05	30.13	30.03	
WINDS	RESULTANT SPEED (MPH)	4.4	4.7	3.7	0.6	2.1	2.7	2.1	2.0	0.7	3.6	3.6	3.6	2.7	
	RES. DIR. (TENS OF DEGS.)	29	30	30	05	30	28	27	31	34	31	29	29	30	
	MEAN SPEED (MPH)	7.7	8.3	8.5	7.4	6.7	6.1	5.0	5.6	4.6	5.8	6.5	7.7	6.7	
	PREVAIL.DIR.(TENS OF DEGS.)	29	31	30	13	30	30	31	30	34	31	30	30	31	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	41	45	40	36	32	37	32	35	28	39	28	41	45	
	DIR. (TENS OF DEGS.)	28	28	27	29	27	30	32	32	29	30	29	32	28	
	DATE OF OCCURRENCE	30	10	08	01	27	23	24	07	09	28	16	31	FEB 10	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	51	54	53	45	46	44	39	40	40	54	46	56	56	
DIR. (TENS OF DEGS.)	27	26	26	27	26	30	32	31	29	29	26	31	31		
DATE OF OCCURRENCE	30	10	08	01	27	23	03	07	09	28	15	31	DEC 31		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.35	2.36	2.69	1.29	1.22	1.23	0.96	0.73	2.61	1.60	1.13	2.30	2.69	
	DATE OF OCCURRENCE	29-30	01	04-05	20	15-16	03-04	13-14	29	05-06	25	30	11-12	MAR 04-05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	15	15	10	16	11	11	8	9	4	8	15	130	
PRECIPITATION 0.10	4	8	6	6	8	7	8	2	8	2	6	8	73		
PRECIPITATION 1.00	0	2	1	2	1	1	0	0	2	1	1	3	14		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	2.0	7.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	16.4	
	GREATEST 24-HOUR (IN.)	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.6	3.6	
	DATE OF OCCURRENCE	17	12	01								21	16	DEC 16	
	MAXIMUM SNOW DEPTH (IN.)	2	2	1	0	0	0	0	0	0	0	T	2	2	
	DATE OF OCCURRENCE	18	24+	01								22+	17	DEC 17	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	4	0	0	0	0	0	0	0	0	1	1	7		

# NORMALS, MEANS, AND EXTREMES HARRISBURG (KMDT)

**LATITUDE:** 40° 11'N      **LONGITUDE:** -76° 45'W      **ELEVATION (FT):** GRND: 300 BARO: 314      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 14711**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	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	44	38.1	39.9	49.7	61.5	71.8	78.7	85.0	82.9	75.4	65.4	52.4	41.1	61.8
	HIGHEST DAILY MAXIMUM	70	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.	69	58.5	59.1	71.0	82.8	88.1	92.8	95.7	94.1	89.7	81.3	70.6	60.6	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	44	23.7	24.0	31.8	41.3	50.8	59.5	65.4	63.3	55.9	45.0	35.3	26.6	43.6
	LOWEST DAILY MINIMUM	70	-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.	69	8.3	9.3	18.4	28.7	38.4	49.1	56.8	53.6	42.1	31.4	22.1	11.4	30.8
	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	68	30.2	31.8	41.0	51.7	61.8	70.3	75.4	73.5	65.9	55.0	44.1	34.0	52.9
	MEAN WET BULB	17	35.9	38.2	41.4	49.9	56.8	64.9	67.9	67.0	62.5	54.0	47.4	38.3	52.0
	MEAN DEW POINT	17	32.8	33.0	38.3	46.1	53.8	62.5	65.8	65.0	60.2	51.4	44.2	34.9	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	22.4
	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	19.7
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	101.7	
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	0.9	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1076	901	723	390	148	14	0	1	52	338	621	937	5201
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	54	186	337	279	87	11	0	0	955
<b>RH</b>	NORMAL (PERCENT)	30													
	hour 01 LST	30													
	hour 07 LST	30													
	hour 13 LST	30													
	hour 19 LST	30													
<b>S</b>	PERCENT POSSIBLE SUNSHINE	62	48	54	57	58	59	64	67	66	61	58	47	44	57
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	20	2.5	2.4	2.0	1.1	0.8	0.4	0.8	0.7	1.3	2.0	1.7	2.0	17.7
	THUNDERSTORMS	35	0.2	0.2	0.5	2.2	3.6	4.3	4.7	4.0	2.1	0.7	0.2	0.1	22.8
<b>CLOUDNESS</b>	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
<b>PR</b>	MEAN STATION PRESSURE(IN)	17	29.72	29.72	29.69	29.66	29.66	29.65	29.65	29.68	29.73	29.72	29.74	29.75	29.70
	MEAN SEA-LEVEL PRES. (IN)	17	30.10	30.08	30.04	29.99	29.98	29.98	29.98	30.03	30.06	30.10	30.10	30.11	30.05
<b>WINDS</b>	MEAN SPEED (MPH)	17	9.1	9.2	10.0	9.3	8.0	6.9	6.4	5.9	6.3	6.5	8.0	8.5	7.8
	PREVAIL.DIR(TENS OF DEGS)	21	31	31	32	32	31	31	32	31	32	31	32	31	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	8	45	45	40	38	35	46	36	35	48	39	44	41	48
	DIR. (TENS OF DEGS)		30	28	27	32	22	30	27	32	13	30	31	32	13
	YEAR OF OCCURRENCE		2006	2008	2008	2007	2007	2006	2006	2008	2003	2008	2003	2008	SEP 2003
	MAXIMUM 3-SECOND SPEED (MPH)	8	54	56	55	48	46	53	46	48	60	54	56	56	60
	DIR. (TENS OF DEGS)		30	29	30	32	26	31	32	31	12	29	31	31	12
	YEAR OF OCCURRENCE		2006	2006	2002	2007	2008	2006	2004	2004	2003	2008	2003	2008	SEP 2003
<b>PRECIPITATION</b>	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)	30	8.01	5.93	6.32	7.96	9.71	8.62	8.09	7.08	10.50	7.78	6.23	7.57	10.50
	YEAR OF OCCURRENCE		1979	1981	1993	1983	1989	2006	1994	2004	2004	2005	1985	1983	SEP 2004
	MINIMUM MONTHLY (IN)	30	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)	30	2.09	2.40	2.69	2.06	2.91	4.56	3.84	3.04	5.82	3.97	3.27	2.58	5.82
	YEAR OF OCCURRENCE		1979	2007	2008	1992	1984	2006	1994	2004	2004	2005	1993	1993	SEP 2004
	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
<b>SNOWFALL</b>	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)	30	38.9	29.8	22.8	10.2	0.0	T	0.0	T	0.0	T	9.7	17.4	38.9
	YEAR OF OCCURRENCE		1996	2003	1993	1982		1993		1993		1982	1987	1995	JAN 1996
	MAXIMUM IN 24 HOURS (IN)	28	21.7	14.2	20.4	4.0	0.0	T	0.0	T	0.0	T	7.9	9.1	21.7
	YEAR OF OCCURRENCE		1996	1979	1993	1996		1993		1993		1979	1987	1990	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	35	20	23	20	1	0	0	0	0	0	0	12	13	23
	YEAR OF OCCURRENCE		1961	1961	1993	1959							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) 2008 HARRISBURG (KMDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	8.01	4.74	1.93	3.60	4.66	2.62	3.14	3.24	6.62	3.91	2.67	1.46	46.60
1980	0.90	0.82	5.47	4.27	4.58	2.50	1.59	1.51	1.06	2.94	3.65	0.77	30.06
1981	0.43	5.93	1.02	2.77	1.86	4.66	4.67	4.11	2.20	3.76	0.96	2.41	34.78
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
POR= 68 YRS	2.93	2.59	3.52	3.29	4.07	3.72	3.84	3.38	3.60	2.98	3.41	3.26	40.59

WBAN : 14711

**AVERAGE TEMPERATURE (°F) 2008 HARRISBURG (KMDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	29.2	22.6	45.1	50.4	62.2	68.5	73.4	72.9	65.5	52.3	46.8	37.6	52.2
1980	30.3	29.1	38.9	52.8	63.3	67.8	76.3	76.1	67.7	51.5	39.4	29.6	51.9
1981	23.7	34.6	38.7	53.7	61.9	71.7	75.7	72.2	63.9	50.7	44.7	31.9	52.0
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
POR= 68 YRS	30.2	31.8	41.0	51.7	61.8	70.3	75.4	73.5	65.9	55.0	44.1	34.0	52.9

**HEATING DEGREE DAYS (base 65°F) 2008 HARRISBURG (KMDT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	12	14	71	393	536	844	1070	1033	799	361	103	48	5284
1980-81	0	0	57	411	761	1091	1277	844	809	339	147	6	5742
1981-82	0	1	94	437	599	1021	1304	948	812	518	128	61	5923
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-	0	0	34	368	641	932							

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**COOLING DEGREE DAYS (base 65°F) 2008 HARRISBURG (KMDT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	0	5	43	138	279	264	92	7	0	0	828
1980	0	0	0	0	57	138	355	350	145	0	0	0	1045
1981	0	0	0	6	60	213	339	232	66	0	0	0	916
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

**SNOWFALL (inches) 2008 HARRISBURG (KMDT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	T	T	0.2	3.8	2.7	7.9	0.0	0.0	0.0	14.6
1980-81	0.0	0.0	0.0	0.0	4.0	4.3	5.5	4.4	6.7	0.0	0.0	0.0	24.9
1981-82	0.0	0.0	0.0	0.0	0.8	12.5	18.8	8.4	7.8	10.2	0.0	0.0	58.5
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	0.0	0.0	9.0
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-	0.0	0.0	0.0	0.0	1.4	4.3							
POR= 39 YRS	0.0	T	0.0	T	1.6	5.9	9.5	9.1	5.9	0.5	0.0	T	32.5

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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p> <p><b>NOTE:</b> 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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# 2008 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 Location

## HARRISBURG

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *		
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE		HYGROTHERMOMETER	
<u>AIRPORT</u> Harrisburg International Airport	10/1/91	12/01/00		40° 12'	76° 46'	310	10		5	33	30	30	30			Station established 10/1/92. Sunshine switch, tipping bucket, weighing rain gauge, 8" rain gauge are all on the roof.
Harrisburg International Airport	12/01/00	Present		40° 11'	76° 45'	a311									s	ASOS Commissioned 12/01/2000 a. Ground elevation.

\* TYPE  
M = AMOS  
T = AUTOB  
S = ASOS  
W = AWOS



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