

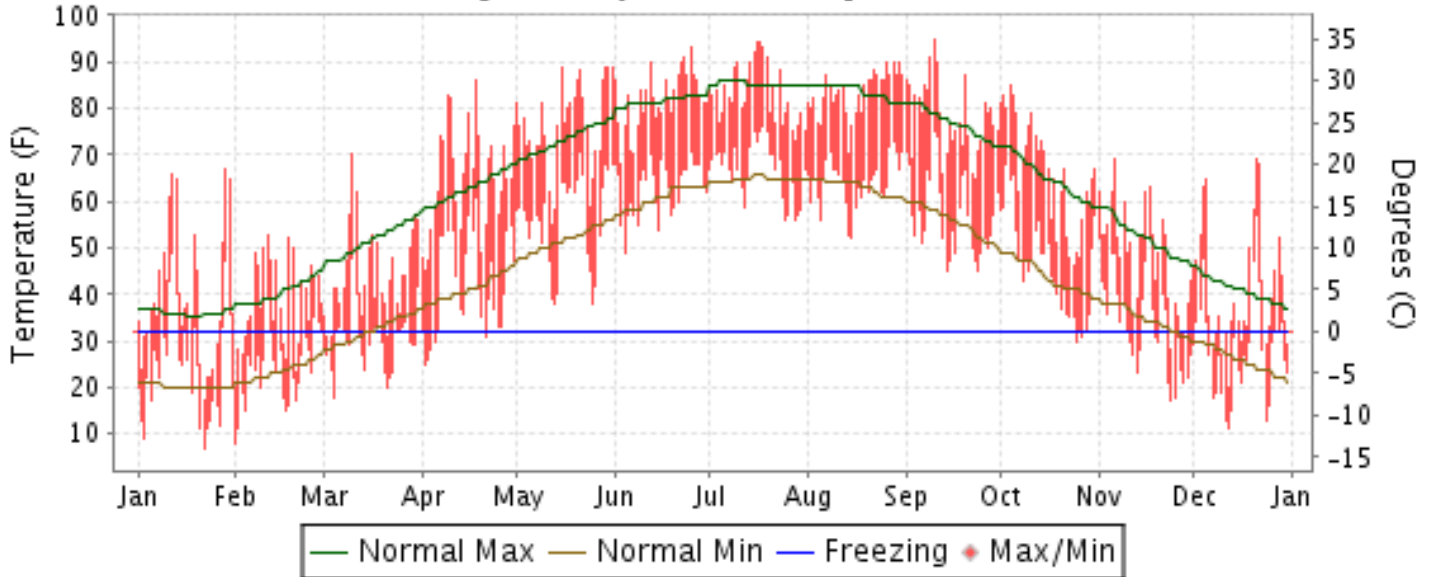


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

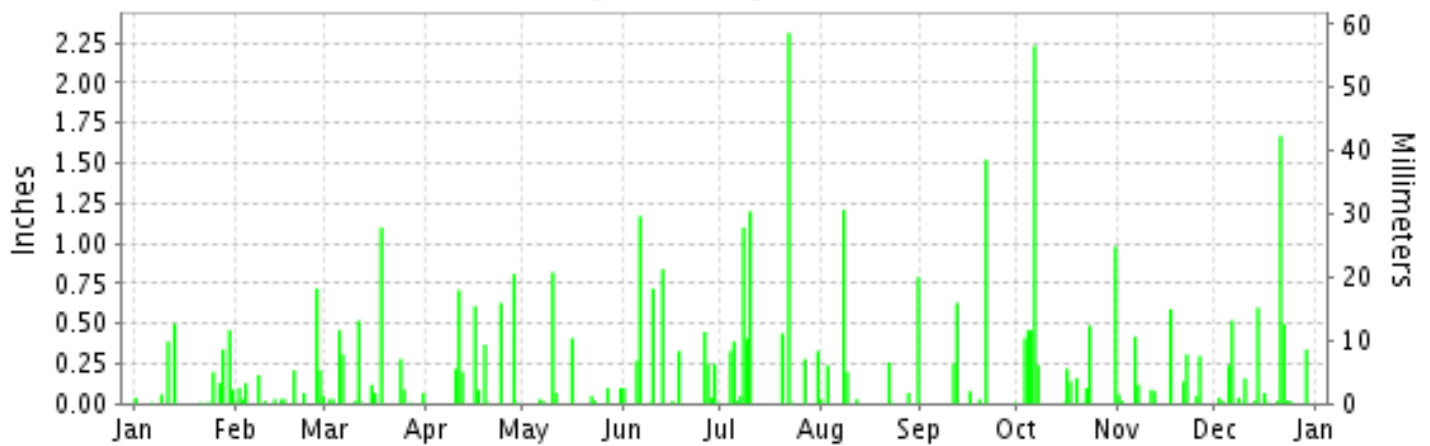
ISSN 0198-3954

COLUMBUS, OHIO (KCMH)

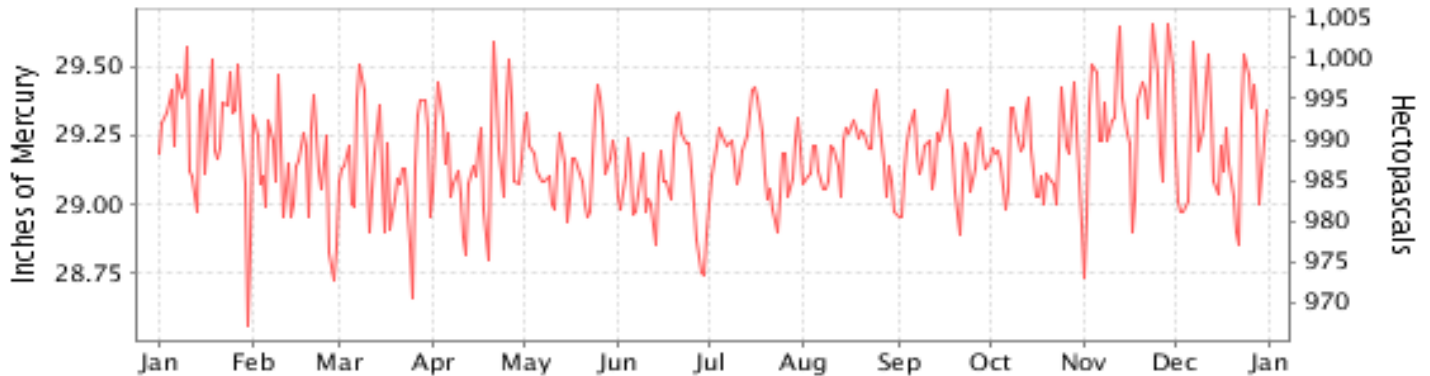
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

COLUMBUS (KCMH)

LATITUDE:
39° 59'N

LONGITUDE:
82° 52'W

ELEVATION (FT):
GRND: 810 BARO: 812

TIME ZONE:
EASTERN (UTC -5)

WBAN: 14821

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	39.8	38.4	44.6	65.3	76.1	82.0	83.2	83.4	78.1	66.4	48.6	41.3	62.3	
	HIGHEST DAILY MAXIMUM	67	53	70	86	89	93	94	90	95	85	69	69	95	
	DATE OF OCCURRENCE	29	11	10	18	31+	25	17+	30+	10	04	06	21	SEP 10	
	MEAN DAILY MINIMUM	24.4	23.9	30.0	42.6	56.0	63.0	66.8	64.2	57.2	46.5	33.9	28.1	44.7	
	LOWEST DAILY MINIMUM	7	8	18	25	38	49	56	52	45	30	17	11	7	
	DATE OF OCCURRENCE	22	01	04	02	25+	04	28+	15	24+	25	24	12	JAN 22	
	AVERAGE DRY BULB	32.1	31.1	37.3	54.0	66.1	72.5	75.0	73.8	67.7	56.5	41.2	34.7	53.5	
	MEAN WET BULB	30.3	28.3	33.0	46.9	58.1	65.2	68.5	66.5	60.7	51.1	36.6	31.8	48.1	
	MEAN DEW POINT	24.9	22.9	26.0	38.5	51.6	60.6	65.3	62.2	55.8	46.3	29.4	26.0	42.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	4	7	3	3	0	0	0	0	17
	MAXIMUM <= 32°	9	8	3	0	0	0	0	0	0	0	3	8	31	
	MINIMUM <= 32°	24	25	23	7	0	0	0	0	0	4	15	23	121	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1015	942	851	348	97	6	0	4	49	300	709	931	5252	
	COOLING DEGREE DAYS	0	0	0	23	138	238	320	282	136	42	0	0	1179	
RH	MEAN (PERCENT)	73	73	66	60	63	69	74	70	69	71	64	70	69	
	HOUR 01 LST	77	76	75	70	75	81	85	85	82	83	72	73	78	
	HOUR 07 LST	78	80	75	68	69	77	81	80	80	82	73	75	77	
	HOUR 13 LST	65	68	55	48	50	55	60	52	51	53	52	64	56	
	HOUR 19 LST	72	69	62	54	56	61	68	65	66	69	63	70	65	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	2	0	1	0	1	0	0	0	0	1	6	
	THUNDERSTORMS	0	0	0	2	3	11	6	4	2	2	1	0	31	
PR	MEAN STATION PRESS. (IN.)	29.26	29.12	29.13	29.17	29.15	29.06	29.17	29.18	29.16	29.18	29.32	29.23	29.18	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.03	30.02	30.05	30.01	29.92	30.04	30.04	30.03	30.06	30.22	30.13	30.06	
WINDS	RESULTANT SPEED (MPH)	5.0	3.7	4.1	3.6	3.0	1.7	1.5	0.6	0.5	2.3	3.2	4.1	2.3	
	RES. DIR. (TENS OF DEGS.)	23	25	29	21	18	23	18	25	01	22	25	24	24	
	MEAN SPEED (MPH)	9.4	9.6	9.2	9.4	8.5	7.3	6.0	5.0	5.4	5.5	8.7	8.6	7.7	
	PREVAIL.DIR.(TENS OF DEGS.)	21	28	29	12	19	20	18	15	36	21	19	19	29	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	38	35	35	41	35	38	51	25	30	33	31	30	51	
	DIR. (TENS OF DEGS.)	27	24	27	33	23	27	27	30	30	25	33	17	27	
	DATE OF OCCURRENCE	31	11	19	10	10	28	10	22	11	31	23	22	JUL 10	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	48	44	43	54	46	46	71	31	36	49	40	41	71	
DIR. (TENS OF DEGS.)	24	24	26	33	22	28	26	30	29	24	27	17	26		
DATE OF OCCURRENCE	30	11	19	10	10	13	10	22	11	31	17	22	JUL 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.25	1.82	3.12	3.66	1.62	4.46	6.87	2.84	2.52	5.91	2.18	4.30	41.55	
	GREATEST 24-HOUR (IN.)	0.63	0.85	1.10	0.91	0.88	1.44	2.31	1.41	1.52	2.32	0.59	2.05	2.32	
	DATE OF OCCURRENCE	30	26-27	18	11-12	10-11	05-06	22	08-09	21	06-07	17	21-22	OCT 06-07	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	13	14	14	10	9	13	12	9	6	13	11	17	141		
PRECIPITATION 0.10	6	6	6	7	4	9	9	5	3	11	6	7	79		
PRECIPITATION 1.00	0	0	1	0	0	1	3	1	1	1	0	1	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL	6.5	6.8	12.2	T	0.0	0.0	0.0	0.0	0.0	T	4.7	12.7	42.9	
	TOTAL (IN.)	3.3	1.6	3.9	T	0.0	0.0	0.0	0.0	0.0	T	3.0	5.1	5.1	
	GREATEST 24-HOUR (IN.)	25	04+	05	01						24+	26	06	DEC 06	
	DATE OF OCCURRENCE	9	4	4	0	0	0	0	0	0	0	2	5	9	
	MAXIMUM SNOW DEPTH (IN.)	01	05	06								27	10+	JAN 01	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	2	4	0	0	0	0	0	0	0	1	4	13		

NORMALS, MEANS, AND EXTREMES COLUMBUS (KCMH)

LATITUDE:
39° 59'N

LONGITUDE:
82° 52'W

ELEVATION (FT):
GRND: 810 BARO: 812

TIME ZONE:
EASTERN (UTC -5)

WBAN: 14821

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	36.5	40.6	51.1	63.5	72.9	81.6	84.9	83.7	77.0	65.1	52.6	40.1	62.5
	MEAN DAILY MAXIMUM	66	36.1	39.6	50.4	63.0	73.1	81.6	85.0	83.7	77.0	65.2	51.8	40.1	62.2
	HIGHEST DAILY MAXIMUM	74	74	75	85	89	94	102	101	101	100	91	80	76	102
	YEAR OF OCCURRENCE		1950	2000	2012	1948	1941	1944	2012	1983	1951	2007	1987	1982	JUN 1944
	MEAN OF EXTREME MAXS.	66	58.5	61.9	74.1	82.1	87.6	92.8	94.1	93.0	90.0	82.1	71.3	61.8	79.1
	NORMAL DAILY MINIMUM	30	22.6	25.0	32.7	42.6	52.2	61.5	65.5	64.1	56.5	45.0	36.1	26.8	44.2
	MEAN DAILY MINIMUM	66	20.9	23.1	31.3	41.2	51.0	59.9	64.3	62.5	55.2	43.7	34.5	25.6	42.8
	LOWEST DAILY MINIMUM	74	-22	-13	-6	14	25	35	43	39	31	20	5	-17	-22
	YEAR OF OCCURRENCE		1994	1977	1984	1982	1966	1972	1972	1965	1963	1962	1976	1989	JAN 1994
	MEAN OF EXTREME MINS.	66	-0.2	3.5	13.2	25.5	35.7	46.4	52.5	50.5	39.3	28.4	18.4	6.2	26.6
	NORMAL DRY BULB	30	29.6	32.8	41.9	53.1	62.5	71.5	75.2	73.9	66.8	55.0	44.4	33.5	53.4
	MEAN DRY BULB	66	28.5	31.4	40.9	52.1	62.1	70.8	74.7	73.1	66.1	54.5	43.1	32.8	52.5
	MEAN WET BULB	30	25.8	27.8	35.0	44.3	54.3	62.5	66.4	65.1	58.6	47.6	38.2	29.5	46.3
	MEAN DEW POINT	30	23.5	25.0	31.9	41.3	52.0	60.5	64.6	63.6	56.8	45.3	35.9	27.5	44.0
NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.4	3.1	5.6	4.8	1.4	0.0	0.0	0.0	15.3	
MAXIMUM <= 32	30	10.8	6.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.3	27.0	
MINIMUM <= 32	30	23.9	21.3	15.3	3.8	0.1	0.0	0.0	0.0	0.0	1.6	10.5	21.2	97.7	
MINIMUM <= 0	30	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	
H/C	NORMAL HEATING DEG. DAYS	30	1099	901	717	372	145	19	1	4	69	325	620	978	5250
	NORMAL COOLING DEG. DAYS	30	0	0	1	14	69	216	317	280	121	16	1	0	1035
RH	NORMAL (PERCENT)	30	74	70	65	63	67	69	70	72	72	70	71	75	70
	hour 01 LST	30	76	74	71	71	77	81	82	85	83	80	76	77	78
	hour 07 LST	30	78	77	76	76	79	81	84	87	87	83	80	80	81
	hour 13 LST	30	68	64	56	52	54	55	56	57	57	55	63	69	59
	hour 19 LST	30	71	67	59	54	56	58	60	62	64	64	68	73	63
S	PERCENT POSSIBLE SUNSHINE	45	36	42	44	50	56	60	60	60	61	56	37	31	49
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	1.4	1.4	1.0	0.5	0.7	0.7	0.8	1.0	1.5	1.1	0.7	1.4	12.2
	THUNDERSTORMS	66	0.6	0.6	2.0	4.1	6.4	7.7	8.0	5.9	3.2	1.3	1.0	0.3	41.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	47	6.2	6.1	5.9	5.6	5.3	5.0	4.8	4.6	4.5	4.5	5.8	6.2	5.4
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.0	5.5	5.5	5.1	4.8	4.7	4.4	4.3	4.3	4.3	5.6	6.0	5.0
	MEAN NO. DAYS WITH: CLEAR	1	2.0												
	PARTLY CLOUDY	1	6.0												
	CLOUDY	1	23.0												
PR	MEAN STATION PRESSURE(IN)	30	29.20	29.18	29.16	29.09	29.11	29.10	29.13	29.16	29.18	29.19	29.21	29.21	29.16
	MEAN SEA-LEVEL PRES. (IN)	30	30.11	30.09	30.05	29.98	29.98	29.97	30.00	30.02	30.05	30.08	30.10	30.12	30.05
WINDS	MEAN SPEED (MPH)	30	9.1	8.9	8.9	8.8	7.4	6.7	6.1	5.6	5.9	6.8	8.1	8.5	7.6
	PREVAIL.DIR(TENS OF DEGS)	39	28	28	29	20	19	20	19	36	36	19	19	28	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	44	49	47	47	47	53	51	51	54	45	45	47	54
	DIR. (TENS OF DEGS)		27	26	26	26	26	32	27	33	21	27	27	22	21
	YEAR OF OCCURRENCE		2012	2009	2002	1996	2001	2012	2013	2010	2008	2006	1996	2001	SEP 2008
	MAXIMUM 3-SECOND SPEED (MPH)	18	55	66	59	60	60	72	71	59	75	55	56	59	75
	DIR. (TENS OF DEGS)		23	21	31	26	25	33	26	33	21	28	25	26	21
YEAR OF OCCURRENCE		2008	2009	2012	2002	2006	2012	2013	2010	2008	2006	1998	2000	SEP 2008	
PRECIPITATION	NORMAL (IN)	30	2.73	2.25	3.02	3.40	4.17	4.01	4.79	3.32	2.84	2.61	3.20	2.97	39.31
	MAXIMUM MONTHLY (IN)	74	8.95	5.15	9.59	7.14	9.11	10.39	12.36	11.46	6.86	6.70	10.67	6.98	12.36
	YEAR OF OCCURRENCE		2005	1990	1964	2011	1968	2008	1992	2003	2003	2006	1985	1990	JUL 1992
	MINIMUM MONTHLY (IN)	74	0.53	0.29	0.61	0.67	0.95	0.65	0.48	0.58	0.51	0.11	0.42	0.46	0.11
	YEAR OF OCCURRENCE		1944	1978	1941	1971	1977	1999	1940	1951	1963	1963	2009	1955	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	74	4.81	2.15	3.40	2.37	2.72	3.64	5.16	3.79	4.86	2.84	2.47	2.56	5.16
	YEAR OF OCCURRENCE		1959	1975	1964	1957	1968	2008	1992	1972	1979	2007	1985	1998	JUL 1992
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	14.0	11.4	12.8	13.7	13.9	11.2	10.6	9.2	8.4	9.4	11.4	13.2	139.2
	PRECIPITATION >= 1.00	30	0.4	0.2	0.4	0.5	0.7	1.0	1.2	0.8	0.7	0.6	0.6	0.4	7.5
SNOWFALL	NORMAL (IN)	30	9.2	6.1	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.2	0.9	5.0	26.7
	MAXIMUM MONTHLY (IN)	65	34.4	30.1	21.8	12.6	0.8	T	T	T	T	4.6	15.2	17.3	34.4
	YEAR OF OCCURRENCE		1978	2010	2008	1987	1989	1995	2012	2007	2011	1993	1950	1960	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	65	8.8	9.7	8.6	12.3	0.8	T	T	T	T	4.6	8.2	8.7	12.3
	YEAR OF OCCURRENCE'		1996	2010	1962	1987	1989	1995	2012	2007	2011	1993	1950	1960	APR 1987
	MAXIMUM SNOW DEPTH (IN)	64	17	14	18	10	0	0	0	0	0	T	13	10	18
	YEAR OF OCCURRENCE		1978	2010	2008	1987						2012	1950	1960	MAR 2008
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.7	2.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.7	8.2	

PRECIPITATION (inches) 2013 COLUMBUS (KCMH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.07	1.97	3.89	3.10	4.93	0.71	3.15	2.96	1.48	2.91	4.41	2.84	33.42
1985	1.31	1.67	3.78	0.73	4.96	1.41	6.88	2.34	1.18	1.93	10.67	1.81	38.67
1986	1.54	2.96	2.61	1.31	2.47	5.53	3.60	1.61	3.44	4.16	3.00	2.81	35.04
1987	1.14	0.59	2.04	2.02	2.85	3.60	3.89	2.96	1.53	1.57	1.63	2.88	26.70
1988	2.14	4.26	2.54	2.24	2.27	1.34	7.80	2.68	3.52	1.70	3.59	2.49	36.57
1989	1.97	3.10	4.16	3.30	4.69	6.36	6.79	4.30	2.16	2.49	2.65	1.79	43.76
1990	2.43	5.15	1.32	2.82	7.01	5.25	8.00	1.86	5.26	5.05	2.03	6.98	53.16
1991	1.97	2.30	3.97	4.15	2.47	2.81	2.14	2.02	4.05	1.76	1.31	3.79	32.74
1992	1.79	0.85	3.40	2.83	3.40	2.33	12.36	3.75	2.14	1.40	4.03	1.32	39.60
1993	4.14	1.82	3.50	4.49	2.47	3.33	5.95	0.74	1.75	3.05	4.45	2.16	37.85
1994	3.79	1.56	1.94	3.64	1.69	1.93	6.02	3.29	1.68	0.92	2.94	2.22	31.62
1995	4.54	1.64	1.61	3.17	4.86	5.30	6.99	7.56	1.15	4.04	2.47	1.97	45.30
1996	3.73	2.14	3.40	6.39	5.81	3.82	5.09	1.58	5.50	1.44	3.20	3.46	45.56
1997	2.19	1.50	3.96	1.65	5.58	6.62	2.91	5.76	1.36	1.58	2.92	2.13	38.16
1998	2.32	2.48	1.88	6.51	3.09	6.99	2.75	1.99	1.27	3.05	1.99	3.25	37.57
1999	2.87	2.77	1.88	4.65	1.80	0.65	3.02	2.40	1.91	1.00	1.95	2.69	27.59
2000	3.53	2.79	2.70	4.15	5.42	3.50	4.10	4.10	4.18	2.70	2.13	3.59	42.89
2001	1.31	1.37	1.03	3.39	7.03	2.30	4.66	4.14	1.60	3.32	3.69	3.01	36.85
2002	1.92	1.72	3.45	4.02	6.60	3.46	4.13	2.12	4.35	2.68	3.00	2.76	40.21
2003	1.69	2.96	2.22	2.54	5.92	4.99	2.94	11.46	6.86	1.78	2.89	2.78	49.03
2004	5.08	2.02	3.27	3.96	5.93	5.34	6.46	3.42	2.98	3.33	4.12	3.36	49.27
2005	8.95	1.27	3.53	4.36	3.36	2.69	1.79	5.09	2.91	1.33	3.31	1.67	40.26
2006	2.67	1.35	3.48	2.52	3.25	4.30	5.77	2.94	5.35	6.70	2.12	3.18	43.63
2007	4.25	2.06	6.68	2.31	1.40	2.78	3.02	4.73	2.53	3.58	2.18	4.34	39.86
2008	1.64	3.88	7.58	2.16	3.14	10.39	1.65	3.73	2.50	1.44	2.49	4.84	45.44
2009	2.73	1.93	1.15	4.23	2.42	3.44	4.90	3.27	2.50	4.89	0.42	3.60	35.48
2010	2.27	2.42	2.75	2.51	3.89	5.38	6.01	2.23	1.66	1.54	4.34	1.26	36.26
2011	1.47	4.25	4.58	7.14	5.90	3.03	5.67	2.48	6.55	3.68	4.77	5.44	54.96
2012	3.82	1.89	4.92	3.60	2.30	2.01	2.54	1.80	3.97	4.06	0.66	5.70	37.27
2013	2.25	1.82	3.12	3.66	1.62	4.46	6.87	2.84	2.52	5.91	2.18	4.30	41.55
POR= 66 YRS	2.87	2.30	3.21	3.52	3.90	4.01	4.46	3.44	2.86	2.35	2.95	2.90	38.77

WBAN : 14821

AVERAGE TEMPERATURE (°F) 2013 COLUMBUS (KCMH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	23.3	37.4	32.3	50.0	57.6	73.1	71.2	72.9	63.1	59.4	40.6	39.5	51.7
1985	21.7	26.0	43.7	56.3	62.6	66.9	72.7	71.2	66.6	57.3	48.2	26.0	51.6
1986	30.1	32.7	42.5	54.5	64.3	70.6	75.7	71.0	69.2	56.3	41.3	33.3	53.5
1987	29.9	34.9	44.3	52.1	66.0	72.7	76.6	74.3	66.9	49.1	47.6	35.7	54.2
1988	26.5	29.3	40.2	50.3	62.6	69.6	77.5	75.3	65.2	47.4	43.9	31.6	51.6
1989	36.6	28.7	42.0	48.2	57.2	68.8	73.9	71.2	65.2	54.2	42.1	19.8	50.7
1990	37.7	37.5	45.3	50.7	59.1	70.3	73.6	72.5	66.4	55.1	46.2	37.2	54.3
1991	29.7	35.7	43.9	56.1	70.9	75.0	77.6	75.0	66.2	55.9	41.0	36.4	55.3
1992	32.2	36.8	40.7	51.8	59.9	67.3	73.5	69.4	64.7	51.9	44.8	34.7	52.3
1993	34.3	27.8	38.6	50.3	62.2	69.8	76.2	75.7	64.9	53.0	43.5	32.9	52.4
1994	21.3	30.0	39.5	53.9	58.4	73.9	75.2	71.7	65.4	55.5	48.2	38.8	52.7
1995	29.4	27.9	43.6	50.8	60.9	72.9	76.0	78.4	64.2	56.1	37.7	28.8	52.2
1996	27.8	30.5	35.6	50.2	60.9	72.3	72.8	74.0	65.8	55.0	37.5	37.1	51.6
1997	28.1	36.3	42.7	48.4	56.6	70.2	74.2	70.3	65.1	55.2	40.1	34.7	51.8
1998	37.6	40.5	43.6	53.1	67.3	71.7	74.8	76.3	71.6	55.7	45.9	38.1	56.4
1999	31.1	37.1	37.5	55.0	64.8	74.5	80.2	73.1	67.9	55.3	47.5	34.6	54.9
2000	27.0	37.5	45.9	51.4	64.9	71.6	72.5	71.3	64.8	57.2	41.0	23.3	52.4
2001	28.7	35.3	38.1	56.8	63.6	71.1	74.3	75.2	64.4	55.8	49.6	38.4	54.3
2002	35.6	35.9	41.3	54.6	58.8	73.5	77.9	76.2	70.7	53.5	41.4	32.4	54.3
2003	22.7	26.9	43.2	54.9	60.8	67.3	73.4	73.7	64.4	52.8	47.3	33.8	51.8
2004	24.2	32.0	43.5	52.6	66.8	70.1	73.7	70.6	68.0	55.1	46.2	32.7	53.0
2005	30.7	34.0	37.2	54.2	58.3	74.4	77.0	76.6	70.0	55.4	45.4	29.6	53.6
2006	40.8	33.6	40.2	56.8	61.1	69.3	76.6	75.8	63.7	52.3	45.9	40.1	54.7
2007	34.4	21.2	47.4	50.7	66.8	73.1	73.2	77.8	71.0	62.1	44.6	35.7	54.8
2008	31.7	31.0	39.4	55.6	60.4	73.2	75.4	73.9	70.1	54.9	41.7	33.2	53.4
2009	22.6	33.8	46.0	53.5	63.5	72.2	71.0	72.7	66.8	51.6	47.8	32.2	52.8
2010	26.0	26.8	44.2	58.1	65.6	74.3	77.0	76.4	68.4	56.3	43.7	26.5	53.6
2011	24.5	32.6	41.1	55.0	64.2	72.6	80.2	74.5	65.6	54.6	48.8	39.0	54.4
2012	33.7	36.9	53.9	53.1	69.7	73.2	80.5	75.4	65.8	54.1	42.1	39.5	56.5
2013	32.1	31.1	37.3	54.0	66.1	72.5	75.0	73.8	67.7	56.5	41.2	34.7	53.5
POR= 66 YRS	28.5	31.4	40.9	52.1	62.1	70.8	74.7	73.1	66.1	54.5	43.1	32.8	52.5

HEATING DEGREE DAYS (base 65°F) 2013 COLUMBUS (KCMH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	6	3	143	182	727	782	1339	1086	654	286	134	35	5377
1985-86	0	2	96	249	500	1202	1076	901	694	328	113	19	5180
1986-87	0	26	41	287	702	974	1083	838	637	393	103	9	5093
1987-88	0	4	53	489	521	900	1187	1029	762	433	119	49	5546
1988-89	3	7	57	547	624	1032	873	1009	711	499	274	28	5664
1989-90	0	11	90	345	680	1394	840	766	613	444	190	26	5399
1990-91	0	3	83	310	558	857	1089	817	649	282	42	0	4690
1991-92	0	0	105	296	714	878	1011	814	747	402	190	35	5192
1992-93	0	8	101	403	600	932	942	1034	811	434	130	51	5446
1993-94	0	1	84	366	637	989	1351	973	787	340	233	12	5773
1994-95	0	8	51	295	497	805	1098	1031	657	427	150	6	5025
1995-96	0	0	78	274	810	1112	1147	992	905	448	191	11	5968
1996-97	2	0	74	307	821	859	1136	798	687	494	264	15	5457
1997-98	0	10	63	346	741	933	843	679	681	352	38	41	4727
1998-99	0	0	22	292	567	829	1045	776	848	299	68	9	4755
1999-00	0	0	46	295	517	936	1172	789	586	403	84	21	4849
2000-01	1	3	104	256	717	1285	1117	822	826	289	92	24	5536
2001-02	2	0	97	297	455	815	904	809	724	345	225	4	4677
2002-03	0	0	21	390	700	1002	1306	1059	668	306	144	54	5650
2003-04	0	0	76	374	526	960	1258	951	659	370	78	3	5255
2004-05	0	8	24	307	556	996	1056	861	857	323	215	1	5204
2005-06	0	0	15	324	580	1092	748	875	758	248	180	20	4840
2006-07	0	0	80	399	567	766	946	1221	548	431	72	2	5032
2007-08	0	0	25	171	607	899	1025	982	789	289	168	1	4956
2008-09	0	0	3	321	694	978	1305	869	584	369	106	9	5238
2009-10	0	11	33	404	507	1010	1201	1065	637	229	83	2	5182
2010-11	0	0	41	279	631	1183	1248	900	733	300	149	1	5465
2011-12	0	0	71	321	481	802	964	807	368	355	31	9	4209
2012-13	0	0	86	351	680	784	1015	942	851	348	97	6	5160
2013-	0	4	49	300	709	931							

WBAN : 14821

COOLING DEGREE DAYS (base 65°F) 2013 COLUMBUS (KCMH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	8	30	253	205	254	94	14	0	0	858
1985	0	0	2	32	64	97	245	201	152	19	2	0	814
1986	0	0	2	19	95	194	339	221	171	25	0	0	1066
1987	0	0	0	11	142	246	366	299	116	0	5	0	1185
1988	0	0	0	0	54	194	396	333	70	5	0	0	1052
1989	0	0	5	2	40	149	282	211	106	12	0	0	807
1990	0	0	11	21	13	191	273	244	133	9	3	0	898
1991	0	0	0	21	232	307	402	317	147	23	0	0	1449
1992	0	0	0	13	37	115	272	152	99	2	0	0	690
1993	0	0	0	0	48	204	352	343	89	2	0	0	1038
1994	0	0	0	15	39	286	322	224	71	8	0	0	965
1995	0	0	0	6	32	251	347	424	61	4	0	0	1125
1996	0	0	0	11	72	238	251	285	102	2	0	0	961
1997	0	0	0	0	10	181	291	182	73	48	0	0	785
1998	0	0	27	0	118	248	313	357	227	10	0	3	1303
1999	0	0	0	4	69	301	476	258	139	0	0	0	1247
2000	0	0	0	2	87	225	239	209	105	18	0	0	885
2001	0	0	0	50	56	215	299	324	85	19	0	0	1048
2002	0	0	0	40	36	268	405	354	199	41	0	0	1343
2003	0	0	1	8	22	130	267	277	65	6	2	0	778
2004	0	0	0	8	141	162	274	189	120	4	0	0	898
2005	0	0	0	7	14	290	379	363	171	33	0	0	1257
2006	0	0	0	11	69	156	364	340	48	13	0	0	1001
2007	0	0	8	7	135	251	263	405	212	88	0	0	1369
2008	0	0	0	15	33	256	330	283	164	15	0	0	1096
2009	0	0	1	30	67	236	191	254	93	1	0	0	873
2010	0	0	0	33	112	288	377	357	151	13	0	0	1331
2011	0	0	0	8	129	236	478	302	100	9	0	0	1262
2012	0	0	30	6	184	265	488	330	118	18	0	0	1439
2013	0	0	0	23	138	238	320	282	136	42	0	0	1179

SNOWFALL (inches) 2013 COLUMBUS (KCMH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	0.9	7.3	21.9	12.5	T	0.8	0.0	0.0	43.4
1985-86	0.0	0.0	0.0	0.0	0.0	8.6	4.8	9.8	1.8	T	0.0	0.0	25.0
1986-87	0.0	0.0	0.0	0.0	0.4	0.4	2.7	1.2	5.9	12.6	0.0	0.0	23.2
1987-88	0.0	0.0	0.0	T	0.6	4.6	8.4	6.5	3.8	T	0.0	0.0	23.9
1988-89	0.0	0.0	0.0	T	0.8	5.9	0.6	3.9	6.6	0.1	0.8	0.0	18.7
1989-90	0.0	0.0	0.0	0.4	0.3	9.4	3.3	6.0	1.4	0.4	0.0	T	21.2
1990-91	0.0	0.0	0.0	0.0	0.0	3.7	3.4	4.5	4.0	T	0.0	0.0	15.6
1991-92	0.0	0.0	0.0	T	0.6	1.6	12.2	1.8	1.6	1.1	0.0	0.0	18.9
1992-93	0.0	0.0	0.0	T	3.0	2.4	1.5	14.6	8.9	0.2	0.0	0.0	30.6
1993-94	0.0	0.0	0.0	4.6	0.8	4.2	19.5	2.9	4.6	1.1	0.0	T	37.7
1994-95	T	0.0	T	0.0	0.0	0.3	12.6	5.3	2.5	T	0.0	T	20.7
1995-96	T	0.0	0.0	0.0	2.7	11.8	24.5	4.3	7.6	3.2	0.0		
1996-97					1.9								
1997-98					0.9	2.9	1.2	2.2	2.8	T	0.0	T	
1998-99	0.0	0.0	0.0	0.0	0.0	2.8	20.6	7.3	9.8	0.0	0.0	0.0	40.5
1999-00	0.0	0.0	0.0	0.0	1.5	4.6	13.8	7.9	1.9	0.1	0.0	0.0	29.8
2000-01	T	0.0	0.0	0.0	1.3	13.4	6.3	3.4	1.1	0.8	T	0.0	26.3
2001-02	0.0	0.0	0.0	T	0.0	1.7	4.7	2.0	1.4	0.3	0.0	0.0	10.1
2002-03	0.0	0.0	0.0	T	3.1	5.1	14.4	26.3	1.7	T	0.0	0.0	50.6
2003-04	0.0	0.0	0.0	0.0	0.7	6.3	11.5	1.5	4.8	0.3	0.0	0.0	25.1
2004-05	0.0	0.0	0.0	T	0.1	9.6	10.6	3.7	8.6	4.7	0.0	0.0	37.3
2005-06	0.0	0.0	0.0	0.0	1.7	6.2	1.8	1.3	1.9	0.0	0.0	0.0	12.9
2006-07	0.0	0.0	0.0	T	0.1	0.1	6.8	13.1	1.9	0.3	0.0	0.0	22.3
2007-08	0.0	T	0.0	0.0	T	7.8	5.0	10.7	21.8	T	0.0	0.0	45.3
2008-09	0.0	0.0	0.0	T	0.8	2.1	20.0	0.2	T	0.1	0.0	0.0	23.2
2009-10	0.0	0.0	0.0	0.0	T	8.9	10.9	30.1	0.7	0.0	0.0	0.0	50.6
2010-11	0.0	0.0	0.0	0.0	T	7.3	13.3	4.8	3.3	T	0.0	0.0	28.7
2011-12	0.0	0.0	T	0.0	T	0.5	6.0	5.4	0.3	0.0	0.0	0.0	12.2
2012-13	T	0.0	0.0	0.6	0.2	14.9	6.5	6.8	12.2	T	0.0	0.0	41.2
2013-	0.0	0.0	0.0	T	4.7	12.7							
POR= 64 YRS	T	T	T	0.1	1.9	5.7	9.0	6.6	4.5	0.8	T	T	28.6

WBAN : 14821

REFERENCE NOTES :

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).

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).

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.

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

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2013 COLUMBUS OHIO (KCMH)

Columbus is located in the center of the state and in the drainage area of the Ohio River. The airport is located at the eastern boundary of the city approximately 7 miles from the center of the business district.

Four nearly parallel streams run through or adjacent to the city. The Scioto River is the principal stream and flows from the northwest into the center of the city and then flows straight south toward the Ohio River. The Olentangy River runs almost due south and empties into the Scioto just west of the business district. Two minor streams run through portions of Columbus or skirt the eastern and southern fringes of the area. They are Alum Creek and Big Walnut Creek. Alum Creek empties into the Big Walnut southeast of the city and the Big Walnut empties into the Scioto a few miles downstream. The Scioto and Olentangy are gorge-like in character with very little flood plain and the two creeks have only a little more flood plain or bottomland.

The narrow valleys associated with the streams flowing through the city supply the only variation in the micro-climate of the area. The city proper shows the typical metropolitan effect with shrubs and flowers blossoming earlier than in the immediate surroundings and in retarding light frost on clear quiet nights. Many small areas to the southeast and to the north and northeast show marked effects of air drainage as evidenced by the frequent formation of shallow ground fog at daybreak during the summer and fall months and the higher frequency of frost in the spring and fall.

The average occurrence of the last freezing temperature in the spring within the city proper is mid-April, and the first freeze in the fall is

very late October, but in the immediate surroundings there is much variation. For example, at Valley Crossing located at the southeastern outskirts of the city, the average occurrence of the last 32 degree temperature in the spring is very early May, while the first 32 degree temperature in the fall is mid-October.

The records show a high frequency of calm or very low wind speeds during the late evening and early morning hours, from June through September. The rolling landscape is conducive to air drainage and from the Weather Service location at the airport the air drainage is toward the northwest with the wind direction indicated as southeast. Air drainage takes place at speeds generally 4 mph or less and frequently provides the only perceptible breeze during the night.

Columbus is located in the area of changeable weather. Air masses from central and northwest Canada frequently invade this region. Air from the Gulf of Mexico often reaches central Ohio during the summer and to a much lesser extent in the fall and winter. There are also occasional weather changes brought about by cool outbreaks from the Hudson Bay region of Canada, especially during the spring months. At infrequent intervals the general circulation will bring showers or snow to Columbus from the Atlantic. Although Columbus does not have a wet or dry season as such, the month of October usually has the least amount of precipitation.

Station History

COLUMBUS, OH

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
COLUMBUS MUNICIPAL AP	1948-01-01	1958-10-01	39° 58'	-82° 52'	833		AIRWAYS, COOP
COLUMBUS PORT COLUMBUS AP	1958-10-01	1959-01-01	39° 58'	-82° 52'	833		AIRWAYS, COOP
COLUMBUS PORT COLUMBUS INTL AP	1965-12-01	1969-01-01	40° 00'	-82° 52'	813		AIRWAYS, COOP
COLUMBUS PORT COLUMBUS INTL AP	1969-01-01	1981-12-31	40° 00'	-82° 52'	813		COOP, WXSVC
COLUMBUS PORT COLUMBUS INTL AP	1996-02-01	1998-05-01	39° 59'	-82° 52'	813		ASOS, COOP
PORT COLUMBUS	1929-07-01	1930-05-07	39° 58'	-82° 52'			AIRWAYS
COLUMBUS PORT COLUMBUS INTL AP	1981-12-31	1996-02-01	40° 00'	-82° 52'	813		COOP
COLUMBUS MUNICIPAL AP	1930-05-07	1948-01-01	39° 58'	-82° 52'			AIRWAYS
COLUMBUS PORT COLUMBUS AP	1959-01-01	1965-12-01	40° 00'	-82° 52'	813		AIRWAYS, COOP
COLUMBUS PORT COLUMBUS INTL AP	1998-05-01	Present	39° 59'	-82° 52'	810		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1929-07-01	1958-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1958-10-01	1986-12-10	DAILY	2400	UNIV	RCRD	
PRECIP	1986-12-10	1995-07-01	HOURLY	2400			
PRECIP	1996-02-02	Present	DAILY	2400	UNIV	RCRD	
PRECIP	1958-10-01	1986-12-10	HOURLY	2400			
PRECIP	1995-07-01	1996-02-02	DAILY	2400	UNIV	RCRD	
TEMP	1929-07-01	1958-10-01	DAILY	2400			
PRECIP	1986-12-10	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1996-02-02	Present	DAILY	2400	MXMN		
PRECIP	1996-02-02	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1958-10-01	1986-12-10	DAILY	2400			
TEMP	1995-07-01	1996-02-02	DAILY	2400	MXMN		
TEMP	1986-12-10	1995-07-01	DAILY	2400	MXMN		
PRECIP	1995-07-01	1996-02-02	HOURLY	2400	UNIV	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>

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Asheville, NC 28801-5001

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