

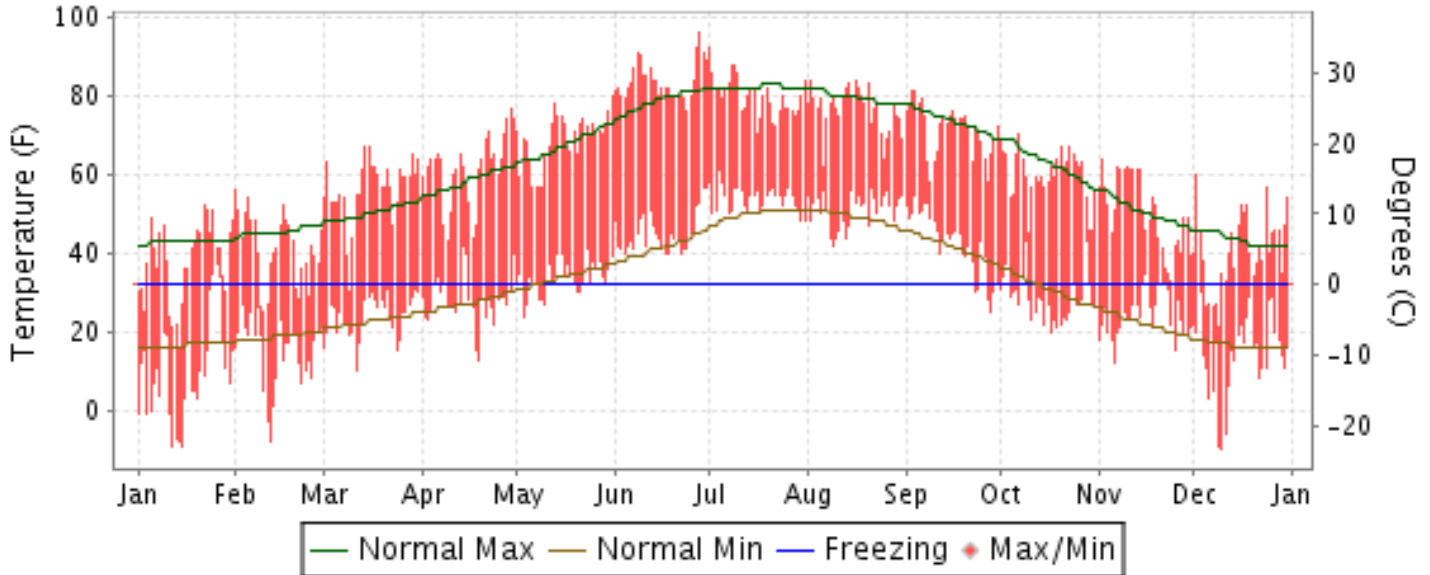


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

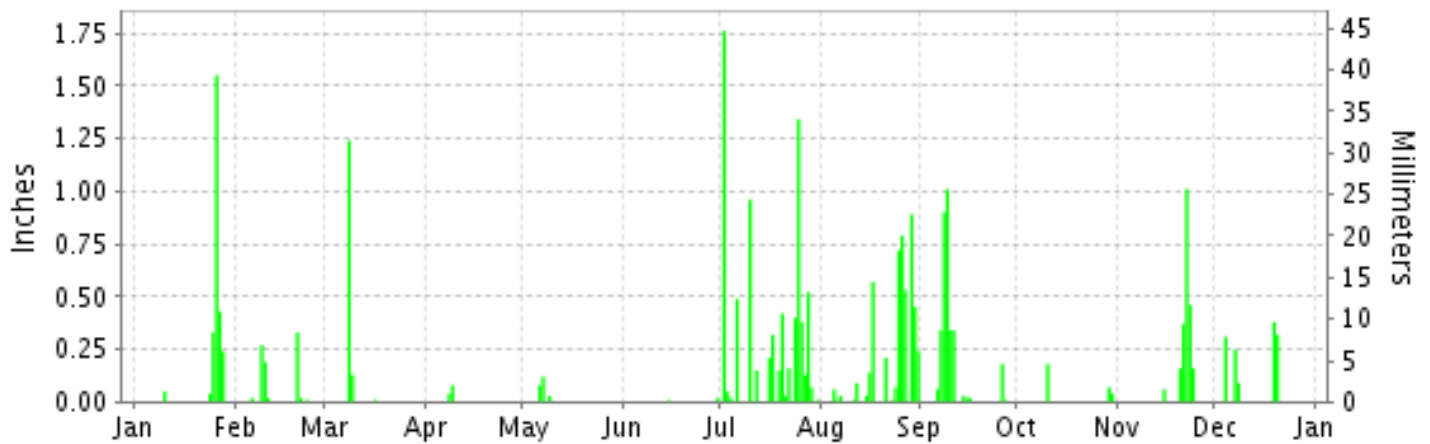
ISSN 0198-0564

FLAGSTAFF, ARIZONA (KFLG)

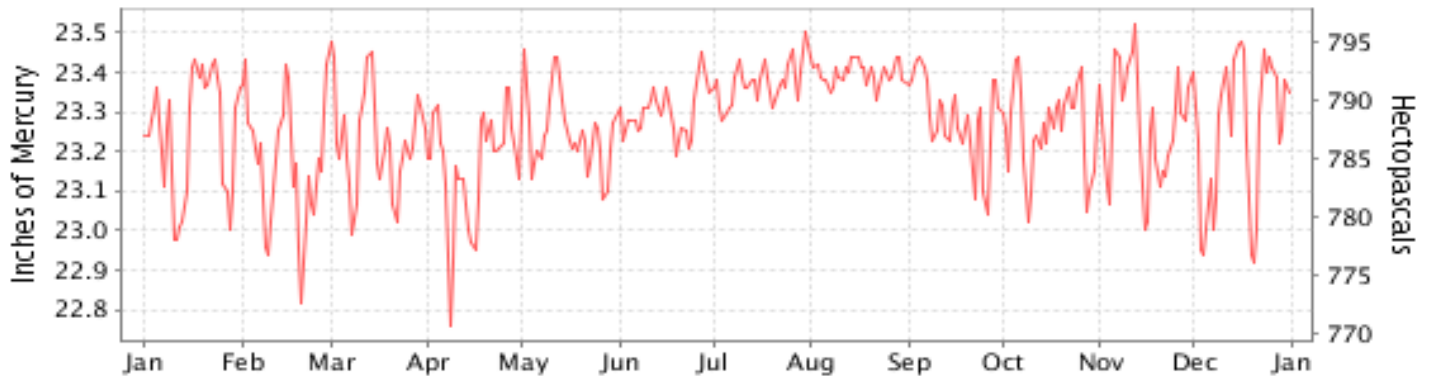
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

FLAGSTAFF (KFLG)

LATITUDE: 35° 8'N LONGITUDE: 111° 39'W ELEVATION (FT): GRND: 7003 BARO: 7003 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 03103

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.9	41.0	56.3	61.2	68.9	83.8	79.8	76.5	71.4	60.0	50.6	40.7	60.7	
	HIGHEST DAILY MAXIMUM	52	56	67	77	80	96	92	84	81	70	64	60	96	
	DATE OF OCCURRENCE	22	01	15+	29	31	28	01	16+	04+	07	02	02	JUN 28	
	MEAN DAILY MINIMUM	9.9	14.7	23.7	28.0	33.6	45.2	53.9	51.1	42.7	28.4	24.2	14.3	30.8	
	LOWEST DAILY MINIMUM	-9	-8	10	13	24	40	48	42	25	20	12	-10	-10	
	DATE OF OCCURRENCE	15+	12	11	19	03	22+	31+	09	28	17	06	10	DEC 10	
	AVERAGE DRY BULB	23.9	27.9	40.0	44.6	51.3	64.5	66.9	63.8	57.1	44.2	37.4	27.5	45.8	
	MEAN WET BULB	19.8	22.9	31.5	34.4	39.5	45.8	57.6	54.8	49.3	34.9	31.3	23.0	37.1	
	MEAN DEW POINT	11.6	13.6	18.3	17.3	21.6	22.9	52.0	49.1	42.7	23.0	23.3	13.9	25.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	5	1	0	0	0	0	0	0	6
	MAXIMUM <= 32°	9	6	1	0	0	0	0	0	0	0	0	5	21	
MINIMUM <= 32°	28	28	31	25	10	0	0	0	6	25	27	31	211		
MINIMUM <= 0°	8	2	0	0	0	0	0	0	0	0	0	3	13		
H/C	HEATING DEGREE DAYS	1266	1031	768	607	418	59	9	49	236	639	822	1158	7062	
	COOLING DEGREE DAYS	0	0	0	0	0	50	75	19	4	0	0	0	148	
RH	MEAN (PERCENT)	63	61	48	37	34	22	66	66	64	50	64	60	53	
	HOUR 05 LST	76	76	72	62	57	38	84	86	86	70	79	73	72	
	HOUR 11 LST	44	44	30	23	22	13	44	48	43	31	49	44	36	
	HOUR 17 LST	55	49	30	23	20	12	60	54	50	38	58	56	42	
	HOUR 23 LST	74	70	61	46	42	29	78	79	81	61	72	69	64	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	4	2	0	0	0	0	2	1	1	5	4	24	
	THUNDERSTORMS	0	0	0	0	0	1	14	9	4	0	0	0	28	
PR	MEAN STATION PRESS. (IN.)	23.25	23.18	23.24	23.16	23.25	23.30	23.37	23.40	23.29	23.26	23.28	23.25	23.27	
	MEAN SEA-LEVEL PRESS. (IN.)	30.19	30.05	30.02	29.87	29.92	29.89	29.98	30.04	29.95	30.01	30.10	30.15	30.01	
WINDS	RESULTANT SPEED (MPH)	1.0	1.6	3.4	5.8	5.2	6.2	2.8	1.0	3.9	2.7	1.4	1.1	2.7	
	RES. DIR. (TENS OF DEGS.)	10	20	23	23	22	22	24	21	22	20	16	13	22	
	MEAN SPEED (MPH)	6.2	6.9	6.4	9.1	8.7	7.9	5.2	3.5	5.0	7.1	5.9	7.7	6.6	
	PREVAIL.DIR.(TENS OF DEGS.)	07	21	22	22	22	22	23	21	22	21	07	07	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	38	31	45	38	30	36	22	46	37	33	36	46	
	DIR. (TENS OF DEGS.)	21	22	05	21	22	21	23	05	22	22	22	21	22	
	DATE OF OCCURRENCE	10	08	10	08	23	24	02	17	26	09	16	04	SEP 26	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	51	51	40	63	48	43	53	30	64	48	42	50	64	
DIR. (TENS OF DEGS.)	21	22	22	22	21	22	09	04	23	22	23	21	23		
DATE OF OCCURRENCE	10	08	03	08	23	15	10	16	26	28	16	04	SEP 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.64	0.86	1.38	0.12	0.23	0.03	7.57	4.85	3.25	0.29	2.22	1.35	24.79	
	GREATEST 24-HOUR (IN.)	1.79	0.33	1.27	0.12	0.12	0.02	1.81	0.96	1.60	0.18	1.13	0.70	1.81	
	DATE OF OCCURRENCE	25-26	20	08-09	08-09	07	30	02-03	26-27	08-09	10	21-22	19-20	JUL 02-03	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	6	7	3	2	3	2	19	17	11	3	6	5	84	
PRECIPITATION 0.10	4	3	2	0	1	0	14	9	6	1	5	4	49		
PRECIPITATION 1.00	1	0	1	0	0	0	2	0	1	0	1	0	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.4	20.1	15.2	1.4	T	0.0	0.0	0.0	T	0.6	11.4	17.9	70.0	
	GREATEST 24-HOUR (IN.)	2.4	6.7	12.3	1.2	T	0.0	0.0	0.0	T	0.6	5.6	4.9	12.3	
	DATE OF OCCURRENCE	28	10	08	09	07				27	10	22	07	MAR 08	
	MAXIMUM SNOW DEPTH (IN.)	11	10	14	1	0	0	0	0	0	0	4	12	14	
	DATE OF OCCURRENCE	02+	11	09	09							24	20	MAR 09	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	3	2	1	0	0	0	0	0	0	2	5	15		

NORMALS, MEANS, AND EXTREMES FLAGSTAFF (KFLG)

LATITUDE: 35° 8'N **LONGITUDE:** 111° 39'W **ELEVATION (FT):** GRND: 7003 BARO: 7003 **TIME ZONE:** MOUNTAIN (UTC -7) **WBAN: 03103**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	42.5	44.8	50.4	58.2	68.1	77.9	81.2	78.4	72.9	62.0	50.5	42.5	60.8	
	MEAN DAILY MAXIMUM	86	42.1	43.7	50.3	57.4	68.0	77.3	81.6	79.0	72.9	63.4	51.1	43.4	60.9	
	HIGHEST DAILY MAXIMUM	63	66	71	73	80	89	96	97	92	90	85	74	68	97	
	YEAR OF OCCURRENCE		1971	1986	2007	1992	2002	2013	1973	1978	1950	1980	1977	1950	1950	JUL 1973
	MEAN OF EXTREME MAXS.	88	57.1	59.1	64.5	71.9	79.9	88.5	90.3	87.4	83.0	75.7	66.3	58.9	73.6	
	NORMAL DAILY MINIMUM	30	17.3	19.3	23.6	28.5	35.0	41.9	50.9	50.1	42.0	31.5	22.9	16.8	31.7	
	MEAN DAILY MINIMUM	86	15.3	17.6	22.4	27.7	34.3	41.2	51.0	49.8	41.6	31.4	22.3	16.7	30.9	
	LOWEST DAILY MINIMUM	63	-22	-23	-16	-2	0	22	32	24	23	-2	-13	-23	-23	
	YEAR OF OCCURRENCE		1971	1985	1966	1975	1996	1955	1955	1968	1971	1971	1958	1990	1990	DEC 1990
	MEAN OF EXTREME MINS.	88	-4.1	-0.5	5.1	14.5	22.5	29.6	41.2	40.7	30.2	18.7	6.1	-2.7	16.8	
	NORMAL DRY BULB	30	29.9	32.1	37.0	43.3	51.6	59.9	66.1	64.2	57.4	46.8	36.7	29.6	46.2	
	MEAN DRY BULB	86	28.7	30.6	36.3	42.8	51.2	59.3	66.4	64.4	57.2	47.4	36.8	30.1	45.9	
	MEAN WET BULB	29	22.8	25.0	27.5	30.8	36.3	41.2	51.5	52.3	45.1	35.2	27.2	22.6	34.8	
	MEAN DEW POINT	29	18.8	20.2	23.3	25.6	29.9	33.2	45.5	48.7	40.8	30.8	23.0	18.1	29.8	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	0.4	1.0	0.1	0.0	0.0	0.0	0.0	1.5	
	MAXIMUM <= 32	30	3.6	2.0	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.5	3.8	11.2	
MINIMUM <= 32	30	30.0	27.1	28.7	22.8	10.2	2.1	0.0	0.0	1.7	16.9	27.5	29.9	196.9		
MINIMUM <= 0	30	1.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	3.7		
H/C	NORMAL HEATING DEG. DAYS	30	1088	923	868	649	417	170	32	56	229	566	849	1096	6943	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	17	64	33	3	0	0	0	117	
RH	NORMAL (PERCENT)	30	64	64	60	48	44	35	49	60	56	54	58	63	55	
	HOURLY 05 LST	30	75	76	74	67	64	54	68	77	75	71	70	72	70	
	HOURLY 11 LST	30	53	50	45	35	30	23	34	40	39	39	44	49	40	
	HOURLY 17 LST	30	51	47	44	33	31	22	36	44	37	36	43	49	39	
	HOURLY 23 LST	30	71	70	67	56	50	40	57	69	67	64	65	68	62	
S	PERCENT POSSIBLE SUNSHINE	15	77	73	76	82	88	86	75	76	81	79	75	73	78	
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	3.5	3.1	2.3	1.7	0.3	0.0	0.2	0.5	0.6	1.0	1.4	3.1	17.7	
	THUNDERSTORMS	49	0.1	0.3	1.0	1.1	2.8	3.0	13.3	13.8	6.4	1.9	0.5	0.1	44.3	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
PR	MEAN STATION PRESSURE(IN)	29	23.25	23.21	23.20	23.19	23.24	23.30	23.38	23.39	23.34	23.30	23.27	23.24	23.28	
	MEAN SEA-LEVEL PRES. (IN)	29	30.13	30.05	29.99	29.92	29.90	29.91	29.98	30.02	30.00	30.03	30.09	30.12	30.01	
WINDS	MEAN SPEED (MPH)	29	5.9	6.4	6.6	7.6	7.3	6.9	5.0	4.2	4.9	5.5	5.9	5.9	6.0	
	PREVAIL.DIR(TENS OF DEGS)	18	22	22	22	22	22	22	23	22	22	22	22	22	22	
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	46	40	51	46	48	44	36	38	46	48	39	45	51	
	DIR. (TENS OF DEGS)		22	20	21	22	22	22	23	22	22	05	21	22	21	
	YEAR OF OCCURRENCE		2005	2006	2009	2010	2011	2007	2013	2010	2013	2007	2011	2008	MAR 2009	
	MAXIMUM 3-SECOND SPEED (MPH)	18	61	55	64	63	64	64	53	64	64	60	53	60	64	
	DIR. (TENS OF DEGS)		23	22	20	22	22	23	09	22	23	05	22	22	23	
YEAR OF OCCURRENCE		2008	2012	2009	2013	2011	2007	2013	2005	2013	2007	2010	2008	SEP 2013		
PRECIPITATION	NORMAL (IN)	30	2.05	2.16	2.12	1.15	0.63	0.36	2.61	3.11	2.38	1.66	1.76	1.87	21.86	
	MAXIMUM MONTHLY (IN)	63	9.55	10.05	6.75	5.62	4.14	2.92	7.57	8.06	6.75	9.86	6.64	7.30	10.05	
	YEAR OF OCCURRENCE		1993	1993	1970	1965	1992	1955	2013	1986	1983	1972	1985	1967	FEB 1993	
	MINIMUM MONTHLY (IN)	63	0.00	T	T	T	0.00	0.00	T	0.26	0.00	T	0.00	T	0.00	
	YEAR OF OCCURRENCE		1972	1967	1972	2008	2002	1971	1993	1962	1995	1952	1999	1958	MAY 2002	
	MAXIMUM IN 24 HOURS (IN)	63	3.43	4.48	2.96	1.79	1.11	2.79	2.55	3.04	3.43	2.73	3.69	3.75	4.48	
	YEAR OF OCCURRENCE		2010	1993	1970	1985	1965	1956	1964	1986	1965	1972	1978	2004	FEB 1993	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.6	8.1	8.2	5.8	4.5	2.7	11.6	14.0	7.9	5.5	4.9	7.0	87.8	
PRECIPITATION >= 1.00	30	0.4	0.4	0.2	0.1	0.0	0.0	0.5	0.5	0.7	0.3	0.4	0.4	3.9		
SNOWFALL	NORMAL (IN)	30	23.2	20.9	20.7	7.1	0.7	0.0	0.0	0.0	0.0	1.5	10.7	16.9	101.7	
	MAXIMUM MONTHLY (IN)	55	63.4	45.5	79.4	58.3	8.7	T	T	0.3	2.0	24.7	40.7	86.0	86.0	
	YEAR OF OCCURRENCE		1980	1990	1991	1965	2008	2006	1992	1992	1965	1971	1985	1967	DEC 1967	
	MAXIMUM IN 24 HOURS (IN)	55	23.1	23.1	26.3	17.2	6.6	T	T	0.3	2.0	13.5	19.6	27.3	27.3	
	YEAR OF OCCURRENCE		1980	1987	1970	1977	1965	1993	1992	1992	1965	1974	1991	1967	DEC 1967	
	MAXIMUM SNOW DEPTH (IN)	54	44	40	37	31	8	0	0	0	T	11	23	66	66	
	YEAR OF OCCURRENCE		2010	1979	1969	1973	1954				1965	1974	1975	1967	DEC 1967	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	5.1	4.4	4.3	1.7	0.2	0.0	0.0	0.0	0.0	0.2	2.2	4.1	22.2		

PRECIPITATION (inches) 2013 FLAGSTAFF (KFLG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.36	0.13	0.89	0.73	0.21	0.13	4.20	3.86	1.75	1.43	1.40	5.00	20.09
1985	2.38	1.67	2.54	3.39	0.26	0.09	2.36	1.07	3.68	2.44	6.64	0.15	26.67
1986	0.31	1.76	2.60	1.23	0.72	1.16	6.62	8.06	4.80	2.02	1.68	1.43	32.39
1987	2.51	2.54	1.69	0.21	0.70	0.25	1.93	3.74	1.49	4.64	2.91	1.37	23.98
1988	1.64	2.30	0.14	3.83	0.14	1.86	3.48	4.77	0.15	1.23	1.14	1.00	21.68
1989	1.84	1.35	2.08	0.01	0.62	0.23	2.28	3.40	0.30	1.28	T	1.05	14.44
1990	1.54	3.20	2.17	2.32	0.73	0.24	4.32	1.71	6.18	0.49	1.09	1.68	25.67
1991	1.76	2.08	6.00	T	0.14	0.59	1.04	1.64	0.26	1.12	4.47	2.73	21.83
1992	2.03	3.69	4.40	0.78	4.14	0.32	2.67	5.80	T	3.64	0.46	6.78	34.71
1993	9.55	10.05	1.54	0.26	0.44	0.55	T	4.19	1.95	3.29	3.02	0.76	35.60
1994	0.38	2.47	3.03	2.48	1.01		1.70	3.61	2.75	1.12	1.91	1.43	
1995	2.39	3.77	3.99	1.49	0.44	0.06	0.61	2.30	0.00	0.01	0.31	0.35	15.72
1996	0.19	1.36	0.54	0.07	T	T	1.79	0.92	3.73	0.93		0.64	
1997	3.21	0.99	0.03	0.60	0.08	0.18	0.21	2.83	3.68	1.15	0.80	1.85	15.61
1998	1.30	2.15	3.74	1.52	1.31	0.00	4.72	2.82	4.45	3.11	1.76	0.42	27.30
1999	0.28	0.48	0.53	2.80	0.42	0.95	3.27	2.45	4.54	T	0.00	T	15.72
2000	0.62	1.61	3.12	0.19	0.12	1.11	0.29	2.83	0.36	3.85	1.07	0.21	15.38
2001	2.60	1.68	1.28	1.40	0.82	0.03	2.80	3.46	0.68	1.21	0.43	1.16	17.55
2002	0.02	0.07	0.62	0.51	0.00	0.00	2.60	1.00	4.01	1.88	1.48	0.69	12.88
2003	0.14	2.75	1.13	0.44	0.73	0.04	3.40	3.03	2.62	0.14	2.51	0.92	17.85
2004	0.76	1.06	0.74	1.81	0.00	0.02	1.47	4.71	1.76	3.51	3.10	4.67	23.61
2005	6.58	4.19	2.43	2.15	0.08	0.40	2.51	3.41	0.46	1.59	0.20	0.01	24.01
2006	0.23	0.09	2.16	0.99	0.08	0.65	4.07	2.83	1.24	2.55	0.06	0.61	15.56
2007	1.20	0.81	0.51	0.38	0.14	0.01	2.86	2.56	2.90	0.38	1.38	4.33	17.46
2008	3.95	2.56	0.04	T	1.17	0.02	2.35	2.40	0.69	0.21	1.29	4.17	18.85
2009	0.73	1.48	0.22	0.33	2.08	0.36	1.00	0.74	0.77	0.21	0.88	2.85	11.65
2010	5.60	1.81	1.31	0.57	0.10	0.09	5.94	3.56	0.79	2.93	1.79	3.40	27.89
2011	0.06	3.25	0.95	1.14	0.87	0.00	2.31	2.76	3.36	2.05	1.76	2.16	20.67
2012	0.42	0.99	1.81	1.24	0.00	0.00	3.45	2.59	0.26	1.03	1.02	2.08	14.89
2013	2.64	0.86	1.38	0.12	0.23	0.03	7.57	4.85	3.25	0.29	2.22	1.35	24.79
POR= 86 YRS	2.09	1.99	2.02	1.24	0.64	0.43	2.55	2.75	1.89	1.45	1.56	2.03	20.64

WBAN : 03103

AVERAGE TEMPERATURE (°F) 2013 FLAGSTAFF (KFLG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	31.7	32.8	38.3	40.7	56.8	58.5	65.7	63.8	59.3	42.4	35.3	29.0	46.2
1985	27.5	28.9	35.5	46.2	51.5	62.6	67.2	65.3	53.1	47.7	33.8	32.4	46.0
1986	37.0	34.2	39.7	44.1	52.0	61.2	64.0	65.7	53.0	43.5	37.6	30.2	46.9
1987	27.6	31.1	32.8	45.9	50.7	61.3	62.8	62.8	56.5	50.4	36.2	27.1	45.4
1988	29.1	34.2	37.4	44.0	50.8	61.5	67.4	64.3	55.9	52.5	36.9	27.9	46.8
1989	26.2	32.3	41.8	50.4	54.2	60.8	68.1	63.6	58.7	47.5	38.4	31.6	47.8
1990	28.6	29.3	38.3	46.1	50.3	64.4	66.9	62.6	59.8	48.9	37.6	25.1	46.5
1991	30.5	37.2	32.2	43.1	49.4	57.3	67.1	66.5	59.6	50.8	36.9	30.2	46.7
1992	27.3	35.2	38.1	49.1	53.3	59.0	65.1	64.2	59.3	50.4	33.8	26.3	46.8
1993	32.2	32.5	40.2	46.4	53.9	60.4	65.5	64.8	57.9	47.4	35.0	30.1	47.2
1994	32.8	29.8	40.6	44.3	51.7		65.4	66.4	58.1	44.2	32.2	32.1	
1995	28.4	37.2	38.2	40.4		55.1	64.6	66.9		47.7	42.3	31.9	
1996	31.4	36.9	37.8	44.9		61.9							
1997	28.0	29.6	39.1	40.5	54.1	57.1	63.8	63.8	59.4	45.0	37.7	26.6	45.4
1998	31.4	27.2	33.7	37.2	46.8	55.0	66.2	64.9	57.3	44.6	37.1	31.1	44.4
1999	33.9	35.1	39.0	37.5	49.4	58.0	64.2	62.1	56.1	47.7	40.5	29.3	46.1
2000	32.9	35.6	35.4	46.6	55.4	62.2	66.5	65.0	60.1	46.2	30.8	34.7	47.6
2001	27.2	29.7	39.0	43.5	55.3	62.2	65.6	64.3	59.9	50.2	38.8	27.0	46.9
2002	31.1	34.0	35.9	47.5	52.1	63.0	70.0	66.0	58.1	45.5	38.3	28.3	47.5
2003	37.2	33.1	37.2	40.6	53.8	60.7	69.5	64.9	59.1	51.8	35.7	30.2	47.8
2004	28.9	27.2	42.7	42.7	52.6	60.0	64.6	62.4	55.9	44.5	34.7	31.4	45.6
2005	31.6	33.1	36.6	42.8	52.5	57.9	67.3	62.9	57.3	47.4	38.8	32.1	46.7
2006	30.6	34.3	32.8	44.3	54.4	64.2	67.8	62.9	54.4	44.7	38.5	30.0	46.6
2007	25.4	32.5	41.0	44.6	53.1	62.7	68.6	66.3	57.7	47.7	41.6	26.0	47.3
2008	24.4	30.9	38.2	44.1	48.5	61.9	67.5	66.9	58.5	48.4	41.6	30.6	46.8
2009	32.0	31.8	39.0	42.6	56.0	57.6	68.0	64.9	59.0	44.9	39.4	24.5	46.6
2010	28.4	29.9	35.2	41.5	48.4	60.3	67.8	64.4	60.2	48.8	34.6	34.6	46.2
2011		27.8	39.5	43.8	48.0	59.0	66.3	67.2	58.9	47.6	36.2	26.3	
2012	34.3	31.9	37.4	45.8	53.4	63.7	66.3	66.0	58.9	49.3	39.7	28.4	47.9
2013	23.9	27.9	40.0	44.6	51.3	64.5	66.9	63.8	57.1	44.2	37.4	27.5	45.8
POR= 86 YRS	28.7	30.6	36.3	42.8	51.2	59.3	66.4	64.4	57.2	47.4	36.8	30.1	45.9

HEATING DEGREE DAYS (base 65°F) 2013 FLAGSTAFF (KFLG)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	21	51	165	695	884	1109	1155	1005	911	557	411	102	7066
1985-86	26	31	351	532	931	1005	862	855	777	619	392	119	6500
1986-87	58	28	353	661	816	1069	1150	942	990	566	435	114	7182
1987-88	82	86	246	447	859	1167	1103	885	848	621	434	124	6902
1988-89	9	41	266	381	836	1141	1196	910	710	432	330	139	6391
1989-90	7	67	184	540	792	1030	1124	996	822	558	449	84	6653
1990-91	10	93	167	494	816	1231	1060	772	1008	652	476	225	7004
1991-92	7	12	159	438	835	1071	1159	854	830	470	356	180	6371
1992-93	38	80	163	444	932	1191	1014	903	761	551	339	158	6574
1993-94	29	45	207	538	893	1073	990	979	747	614	406		
1994-95	35	11	203	637	974	1014	1128	772	821	731		290	
1995-96	60	10		531	671	1015	1035	807	834	597		108	
1996-97	2	36	291	620		966	1141	984	797	729	330	231	
1997-98	61	45	161	613	813	1182	1037	1050	964	828	559	300	7613
1998-99	15	27	226	624	832	1044	957	829	798	817	480	220	6869
1999-00	45	86	260	529	726	1099	987	846	911	547	293	98	6427
2000-01	26	49	148	577	1020	933	1165	983	801	641	295	109	6747
2001-02	25	40	149	452	781	1172	1047	863	894	521	397	69	6410
2002-03	2	38	204	598	792	1130	856	889	856	726	342	131	6564
2003-04	0	30	171	403	872	1074	1112	1091	678	661	377	141	6610
2004-05	44	89	264	630	902	1034	1029	888	876	657	382	216	7011
2005-06	17	62	222	537	781	1012	1060	852	990	611	320	60	6524
2006-07	14	65	310	623	790	1080	1221	901	738	608	359	86	6795
2007-08	3	9	215	532	694	1200	1252	982	824	620	504	116	6951
2008-09	4	7	188	510	695	1058	1015	926	800	666	274	225	6368
2009-10	2	53	176	615	759	1251	1124	976	919	697	504	151	7227
2010-11	12	42	141	495	905	936		1035	784	629	523	191	
2011-12	26	0	181	535	855	1197	943	954	847	572	355	72	6537
2012-13	16	18	176	479	754	1128	1266	1031	768	607	418	59	6720
2013-	9	49	236	639	822	1158							

WBAN : 03103

COOLING DEGREE DAYS (base 65°F) 2013 FLAGSTAFF (KFLG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	2	14	49	23	2	0	0	0	90
1985	0	0	0	0	0	36	102	47	0	0	0	0	185
1986	0	0	0	0	0	11	33	55	0	0	0	0	99
1987	0	0	0	0	0	13	21	26	0	0	0	0	60
1988	0	0	0	0	0	28	94	28	1	0	0	0	151
1989	0	0	0	0	0	22	111	29	0	0	0	0	162
1990	0	0	0	0	0	76	76	28	18	0	0	0	198
1991	0	0	0	0	0	0	79	65	4	0	0	0	148
1992	0	0	0	0	0	6	48	62	0	0	0	0	116
1993	0	0	0	0	0	26	50	46	1	0	0	0	123
1994	0	0	0	0	0		53	57	0	0	0	0	
1995	0	0	0	0	0	0	53	76		0	0	0	
1996	0	0	0	0	0	18							
1997	0	0	0	0	1	0	29	14	2	0	0	0	46
1998	0	0	0	0	0	5	60	28	0	0	0	0	93
1999	0	0	0	0	0	15	29	5	0	0	0	0	49
2000	0	0	0	0	3	18	81	55	8	0	0	0	165
2001	0	0	0	0	0	30	50	26	0	0	0	0	106
2002	0	0	0	0	5	19	163	79	5	0	0	0	271
2003	0	0	0	0	3	8	146	32	1	0	0	0	190
2004	0	0	0	0	0	0	42	16	0	0	0	0	58
2005	0	0	0	0	0	8	97	4	0	0	0	0	109
2006	0	0	0	0	0	41	106	9	0	0	0	0	156
2007	0	0	0	0	0	26	122	56	3	0	0	0	207
2008	0	0	0	0	1	29	88	74	0	0	0	0	192
2009	0	0	0	0	0	12	103	54	2	0	0	0	171
2010	0	0	0	0	0	18	108	31	3	0	0	0	160
2011	0	0	0	0	0	16	73	76	5	0	0	0	
2012	0	0	0	0	0	41	65	58	0	0	0	0	164
2013	0	0	0	0	0	50	75	19	4	0	0	0	148

SNOWFALL (inches) 2013 FLAGSTAFF (KFLG)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.6	9.4	28.7	26.2	31.3	21.3	18.5	0.0	0.0	136.0
1985-86	0.0	0.0	0.0	0.0	40.7	2.6	0.4	26.9	32.8	1.6	0.4	0.0	105.4
1986-87	0.0	0.0	0.9	0.6	4.8	9.5	38.6	40.7	25.0	1.5	0.0	0.0	121.6
1987-88	0.0	0.0	0.0	0.0	2.9	16.7	28.9	21.0	1.5	33.1	0.4	0.0	104.5
1988-89	0.0	0.0	0.0	0.0	11.9	15.0	21.7	12.0	16.6	T	0.5	0.0	77.7
1989-90	0.0	T	T	T	T	13.1	24.2	45.5	25.0	4.2	1.4	0.0	113.4
1990-91	T	T	T	T	9.6	22.3	3.1	13.5	79.4	T	T	0.0	127.9
1991-92	0.0	0.0	T	5.9	39.5	24.0	24.7	24.9	35.9	4.0	T	T	158.9
1992-93	T	0.3	0.0	0.5	2.1	41.7	55.7	35.2	11.9	2.3	0.3	T	150.0
1993-94	0.0	T	T	0.0	23.0	13.4	6.9	26.1	12.3	27.8	T		
1994-95	0.0	T	0.0									0.0	
1995-96	0.0	0.0	0.0	0.0	0.0								
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04							9.8	24.5	12.5	T	0.0	0.0	
2004-05	0.0	0.0	0.0	16.4	11.8	10.9	56.3	16.8	18.4	1.1	T	0.0	131.7
2005-06	0.0	T	0.0	0.0	T	T	1.6	0.0	40.0	3.0	0.0	T	44.6
2006-07	0.0	0.0	0.0	T	0.6	9.5	25.4	11.0	1.2	2.3	0.4	0.0	50.4
2007-08	0.0	0.0	0.0	0.0	0.0	25.4	26.9	35.9	2.5	0.1	8.7	0.0	99.5
2008-09	0.0	0.0	0.0	0.0	2.5	39.1	7.8	31.3	0.3	5.0	0.0	0.0	86.0
2009-10	0.0	0.0	0.0	0.3	T	33.0	56.4	28.5	16.3	5.5	0.5	0.0	140.5
2010-11	0.0	0.0	0.0	0.0	8.1	30.1	1.2	24.6	8.6	14.1	1.7	0.0	88.4
2011-12	0.0	T	0.0	T	12.5	33.1	4.6	15.9	26.4	10.4	0.0	0.0	102.9
2012-13	0.0	0.0	0.0	T	1.1	28.5	3.4	20.1	15.2	1.4	T	0.0	69.7
2013-	0.0	0.0	T	0.6	11.4	17.9							
POR= 74 YRS	T	T	0.1	1.4	7.4	14.5	18.8	15.3	16.3	6.6	1.5	T	81.9

WBAN : 03103

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. 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.</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</p>	<p>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 SATION 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.</p> <p>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.</p>
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2013 FLAGSTAFF ARIZONA (KFLG)

Flagstaff, elevation 7,000 feet, is situated on a volcanic plateau at the base of the highest mountains in Arizona. The climate may be classified as vigorous with cold winters, mild, pleasantly cool summers, moderate humidity, and considerable diurnal temperature change. Only limited farming exists due to the short growing season. The stormy months are January, February, March, July, and August.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 21 and the average last occurrence in the spring is June 13.

Temperatures in Flagstaff are characteristic of high altitude climates. The average daily range of temperature is relatively high, especially in the winter months, October to March, as a result of extensive snow cover and clear skies. Winter minimum temperatures frequently reach zero or below and temperatures of -25 degrees or less have occurred. Summer maximum temperatures are often above 80 degrees and occasionally, temperatures have exceeded 95 degrees.

The Flagstaff area is semi-arid. Several months have recorded little or no precipitation. Over 90 consecutive days without measurable precipitation have occurred. Annual precipitation ranges from less than 10 inches to more than 35 inches. Winter snowfalls can be heavy, exceeding 100 inches during one month and over 200 inches during the winter season. However, accumulations are quite variable from year to year. Some winter months may experience little or no snow and the winter season has produced total snow accumulations of less than 12 inches.

Station History

FLAGSTAFF, AZ

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FLAGSTAFF PULLIAM AP	1990-08-01	1994-07-01	35° 7'	-111° 40'	7004		COOP
FLAGSTAFF PULLIAM AP	1995-11-28	1996-01-01	35° 8'	-111° 40'	6993	.5 MI NNE	ASOS, COOP
FLAGSTAFF PULLIAM AP	1973-01-01	1981-12-31	35° 7'	-111° 40'	7006		COOP, WXSVC
FLAGSTAFF PULLIAM AP	1996-01-01	1997-10-01	35° 8'	-111° 40'	6993		ASOS, COOP
FLAGSTAFF MUNICIPAL AP	1950-01-12	1963-06-01	35° 7'	-111° 40'	7006		AIRWAYS, COOP
FLAGSTAFF PULLIAM AP	1981-12-31	1990-08-01	35° 7'	-111° 40'	7006		COOP
FLAGSTAFF WB AP	1950-01-01	1950-01-12	35° 7'	-111° 40'	7006		AIRWAYS, COOP
FLAGSTAFF PULLIAM AP	1963-06-01	1973-01-01	35° 7'	-111° 40'	7006		AIRWAYS, COOP
FLAGSTAFF PULLIAM AP	1997-10-01	2002-10-09	35° 8'	-111° 40'	7003		ASOS, COOP
FLAGSTAFF PULLIAM AP	2004-07-01	Present	35° 8'	-111° 39'	7003		ASOS, COOP
FLAGSTAFF PULLIAM AP	1994-07-01	1995-11-28	35° 7'	-111° 40'	7004		ASOS, COOP
FLAGSTAFF PULLIAM AP	2002-10-09	2004-07-01	35° 8'	-111° 39'	7003	.25 MI NE	ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1968-08-15	1980-09-04	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-28	DAILY	2400	UNIV	RCRD	
PRECIP	2004-07-01	2010-04-12	DAILY	2400	PCPN1		
PRECIP	2002-10-09	2004-07-01	DAILY	2400	PCPN1		
TEMP	2004-07-01	2010-04-12	DAILY	2400	ATEMP		
TEMP	2010-04-12	2011-02-24	DAILY	2400	ATEMP		
PRECIP	2011-02-24	2011-06-13	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2011-06-13	Present	DAILY	2400	ATEMP		
PRECIP	1950-01-01	1968-08-15	DAILY	2400	UNIV	RCRD	
TEMP	1995-11-28	2002-10-09	DAILY	2400	HYGR		
PRECIP	1995-11-28	2002-10-09	HOURLY	2400	TB	RCRD	
SNOWDPTH	2004-07-01	2010-04-12	DAILY	0600	SNOWSTICK		
SNOWDPTH	2011-06-13	Present	DAILY	0500	SNOWSTAKE		
TEMP	1980-09-04	1982-01-01	DAILY	2400	MXMN		
PRECIP	2010-04-12	2011-02-24	HOURLY	2400	AHTB	RCRD;HTD	
SNOWDPTH	2010-04-12	2011-02-24	DAILY	0500	SNOWSTICK		
TEMP	1950-01-01	1968-08-15	DAILY	2400	MXMN		
TEMP	1982-01-01	1995-07-01	DAILY	2400	MXMN		
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
TEMP	2002-10-09	2004-07-01	DAILY	2400	ATEMP		
PRECIP	2011-02-24	2011-06-13	DAILY	2400	PCPNX		
TEMP	2011-02-24	2011-06-13	DAILY	2400	ATEMP		
TEMP	1968-08-15	1980-09-04	DAILY	2400	HYGR		
PRECIP	1980-09-04	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	2002-10-09	2004-07-01	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2004-07-01	2010-04-12	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2011-06-13	Present	DAILY	2400	PCPNX		
PRECIP	2011-06-13	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-28	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-11-28	2002-10-09	DAILY	2400	TB	RCRD	
PRECIP	2010-04-12	2011-02-24	DAILY	2400	PCPN1		
TEMP	1995-07-01	1995-11-28	DAILY	2400	MXMN		
SNOWDPTH	2011-02-24	2011-06-13	DAILY	0500	SNOWSTAKE		

* 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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