

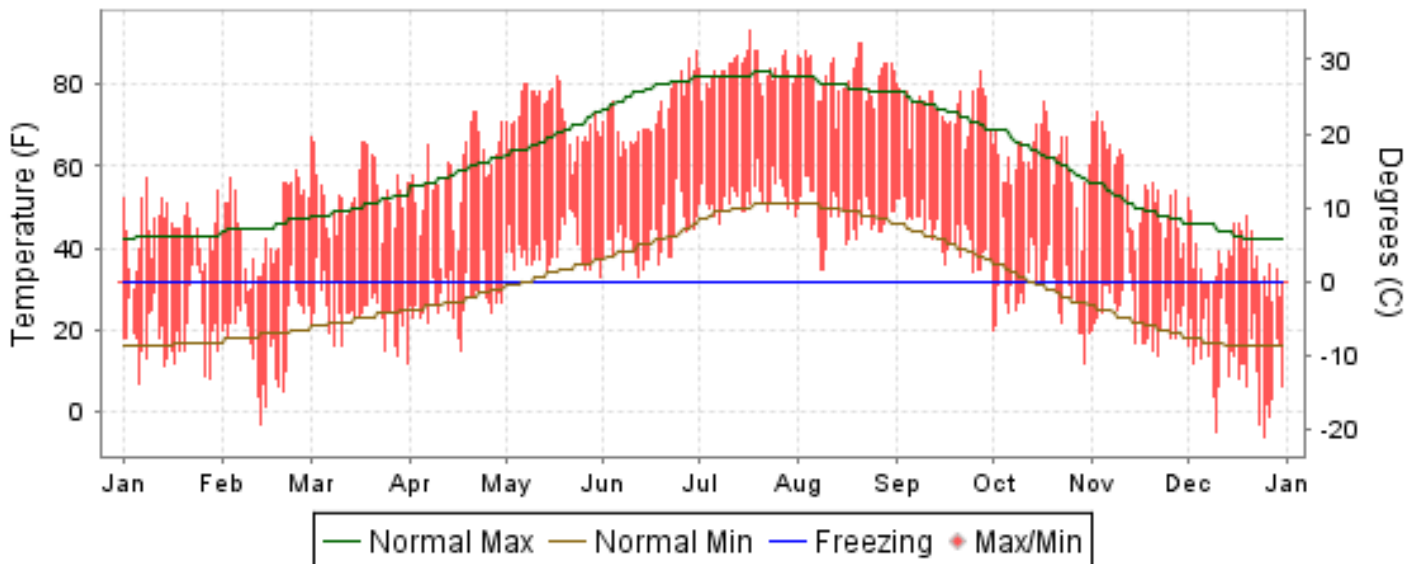


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

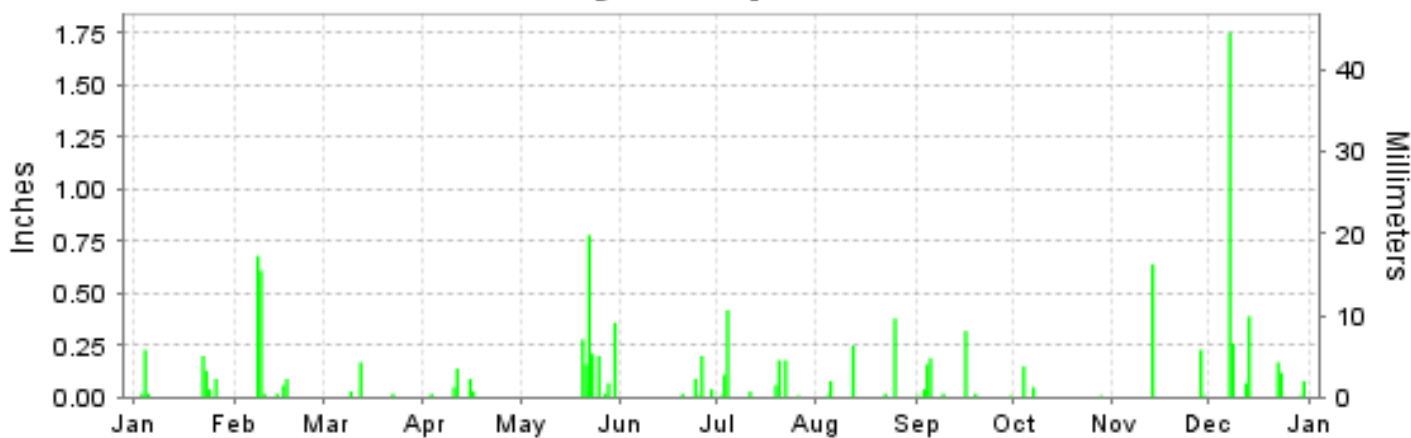
ISSN 0198-0564

## FLAGSTAFF, ARIZONA (KFLG)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## FLAGSTAFF (KFLG)

LATITUDE: 35° 8' N      LONGITUDE: -111° 40' 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	44.4	45.6	54.2	58.1	72.3	73.1	83.6	82.2	74.4	60.8	54.9	37.2	61.7	
	HIGHEST DAILY MAXIMUM	57	59	67	73	82	88	93	90	83	76	73	52	93	
	DATE OF OCCURRENCE	08	24	01	22+	17	30	17	21+	27	17	03	01	JUL 17	
	MEAN DAILY MINIMUM	19.6	17.9	23.7	27.0	39.6	42.1	52.4	47.5	43.6	29.0	23.9	11.7	31.5	
	LOWEST DAILY MINIMUM	7	-3	12	15	33	33	46	35	34	12	14	-6	-6	
	DATE OF OCCURRENCE	06	13	31	17	31	12	07	09+	25	30	22	25	DEC 25	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	26.8	26.3	30.3	33.0	44.5	46.0	54.8	49.5	47.4	35.7	30.3	21.0	37.1	
	MEAN DEW POINT	18.3	16.5	16.1	17.7	31.3	33.2	44.4	34.7	35.9	22.5	17.7	14.0	25.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	1	2	0	0	0	0	3
	MAXIMUM <= 32°	1	2	0	0	0	0	0	0	0	0	1	0	9	13
MINIMUM <= 32°	28	27	29	25	0	0	0	0	0	0	23	28	31	191	
MINIMUM <= 0°	0	1	0	0	0	0	0	0	0	0	0	0	4	5	
H/C	HEATING DEGREE DAYS	1015	926	800	666	274	225	2	53	176	615	759	1251	6762	
	COOLING DEGREE DAYS	0	0	0	0	0	12	103	54	2	0	0	0	171	
RH	MEAN (PERCENT)	62	58	45	42	46	42	47	37	49	46	49	68	49	
	HOUR 05 LST	73	75	70	65	68	66	69	56	69	63	66	76	68	
	HOUR 11 LST	45	41	28	27	28	28	29	21	30	32	32	51	33	
	HOUR 17 LST	55	45	30	28	36	29	39	25	34	35	40	66	39	
	HOUR 23 LST	72	70	54	53	59	52	60	50	60	56	60	74	60	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	2	1	2	0	0	0	0	0	1	1	5	16	
	THUNDERSTORMS	0	0	1	0	8	2	9	3	8	0	0	0	31	
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.)	23.31	23.23	23.18	23.18	23.27	23.25	23.39	23.38	23.36	23.20	23.28	23.17	23.27	
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.09	29.94	29.91	29.93	29.89	29.99	29.99	30.01	29.91	30.07	30.06	30.00	
WINDS	RESULTANT SPEED (MPH)	1.4	4.1	6.1	6.3	4.4	6.0	3.5	4.0	0.7	4.0	1.4	2.5	3.4	
	RES. DIR. (TENS OF DEGS.)	10	22	22	22	23	22	23	22	17	22	16	21	22	
	MEAN SPEED (MPH)	6.6	7.3	8.4	10.1	6.4	7.3	5.5	5.8	5.9	7.6	6.4	6.7	7.0	
	PREVAIL.DIR.(TENS OF DEGS.)	06	21	22	21	22	21	22	22	06	22	07	22	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	36	51	45	32	39	28	37	36	38	36	40	51	
	DIR. (TENS OF DEGS.)	05	23	21	21	22	22	22	22	21	21	21	22	21	
	DATE OF OCCURRENCE	29	09	22	15	02	05	29	07	30	04	12	08	MAR 22	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	45	49	64	58	47	51	44	51	46	53	45	53	64	
DIR. (TENS OF DEGS.)	04	22	20	21	24	21	22	22	23	22	23	25	20		
DATE OF OCCURRENCE	29	25	22	15	14	05	08	07	30	04	12	08	MAR 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.26	0.68	0.17	0.19	0.82	0.21	0.42	0.38	0.34	0.15	0.64	1.75	1.75	
	DATE OF OCCURRENCE	22-23	08	12	10-11	21-22	25-26	04	25	04-05	04	13	07	DEC 07	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	7	6	3	5	8	5	8	5	8	3	3	8	69	
PRECIPITATION 0.10	3	2	1	1	6	1	4	2	3	1	2	5	31		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	1	1		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	7.8	31.3	0.3	5.0	0.0	0.0	0.0	0.0	0.0	0.3	T	33.0	77.7	
	GREATEST 24-HOUR (IN.)	5.5	14.6	0.3	4.0	0.0	0.0	0.0	0.0	0.0	0.3	T	20.1	20.1	
	DATE OF OCCURRENCE	04	09	12	11						28	30+	07	DEC 07	
	MAXIMUM SNOW DEPTH (IN.)	21	15	0	2	0	0	0	0	0	T	0	19	21	
	DATE OF OCCURRENCE	05	11+		11						29		08	JAN 05	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	4	0	1	0	0	0	0	0	0	0	6	13		

# NORMALS, MEANS, AND EXTREMES FLAGSTAFF (KFLG)

**LATITUDE:** 35° 8' N      **LONGITUDE:** -111° 40' 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	
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	42.9	45.6	50.3	58.4	67.6	78.7	82.2	79.7	73.8	63.1	50.8	43.7	61.4	
	MEAN DAILY MAXIMUM	83	42.1	43.8	50.1	57.3	68.0	77.1	81.6	79.1	72.8	63.4	51.1	43.5	60.8	
	HIGHEST DAILY MAXIMUM	60	66	71	73	80	89	96	97	92	90	85	74	68	97	
	YEAR OF OCCURRENCE		1971	1986	2007	1992	2002	1970	1973	1978	1950	1980	1977	1950	1973	JUL 1973
	MEAN OF EXTREME MAXS.	85	57.2	59.3	64.3	71.7	80.0	88.3	90.3	87.4	83.1	75.7	66.3	58.7	73.5	
	NORMAL DAILY MINIMUM	30	16.5	18.8	22.8	27.3	34.0	41.4	49.9	49.1	41.7	31.1	22.1	16.6	30.9	
	MEAN DAILY MINIMUM	83	15.3	17.6	22.4	27.7	34.4	41.2	50.9	49.7	41.5	31.4	22.3	16.7	30.9	
	LOWEST DAILY MINIMUM	60	-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.	85	-4.4	-0.6	4.8	14.6	22.6	29.4	41.1	40.4	30.0	18.5	6.1	-2.4	16.7	
	NORMAL DRY BULB	30	29.7	32.2	36.6	42.9	50.8	60.1	66.1	64.4	57.8	47.1	36.5	30.2	46.2	
	MEAN DRY BULB	83	28.7	30.7	36.3	42.7	51.2	59.2	66.3	64.4	57.2	47.4	36.8	30.2	45.9	
	MEAN WET BULB	26	23.7	26.3	28.8	32.5	38.7	44.0	52.1	52.8	46.0	36.3	28.1	23.4	36.1	
	MEAN DEW POINT	26	18.3	19.7	22.2	24.2	28.6	31.3	43.9	47.7	39.6	29.6	21.9	17.1	28.7	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	1.7	2.1	0.6	0.0	0.0	0.0	0.0	4.4	
	MAXIMUM <= 32	30	4.0	2.5	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	1.1	4.1	13.2	
MINIMUM <= 32	30	30.5	27.7	29.5	24.6	13.0	2.7	0.0	0.0	2.3	18.2	28.0	30.0	206.5		
MINIMUM <= 0	30	2.2	1.0	0.3	*	0.0	0.0	0.0	0.0	0.0	*	0.3	1.8	5.6		
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1099	930	880	668	446	174	33	56	224	554	850	1085	6999	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	23	64	36	3	0	0	0	126	
<b>RH</b>	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	
<b>S</b>	PERCENT POSSIBLE SUNSHINE	15	77	73	76	82	88	86	75	76	81	79	75	73	78	
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	42	3.4	2.9	2.2	1.8	0.2	0.0	0.2	0.4	0.6	1.1	1.3	2.9	17.0	
	THUNDERSTORMS	46	0.1	0.3	1.0	1.1	3.0	3.2	13.4	14.2	6.6	2.0	0.5	0.1	45.5	
<b>CLOUDNESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)															
	MIDNIGHT-MIDNIGHT (OKTAS)															
	MEAN NO. DAYS WITH: CLEAR															
	PARTLY CLOUDY CLOUDY															
<b>PR</b>	MEAN STATION PRESSURE (IN)	26	23.25	23.21	23.20	23.20	23.24	23.30	23.38	23.39	23.34	23.30	23.27	23.24	23.28	
	MEAN SEA-LEVEL PRES. (IN)	26	30.13	30.06	29.99	29.93	29.91	29.92	29.99	30.02	30.00	30.03	30.09	30.13	30.02	
<b>WINDS</b>	MEAN SPEED (MPH)	26	5.9	6.3	6.4	7.4	7.0	6.6	5.0	4.2	4.9	5.4	5.8	5.7	5.9	
	PREVAIL. DIR. (TENS OF DEGS)	14	22	22	22	22	22	22	23	22	22	22	22	22	22	
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	46	40	51	45	41	44	35	38	39	48	37	45	51	
	DIR. (TENS OF DEGS)		22	20	21	21	22	22	26	07	21	05	06	22	21	
	YEAR OF OCCURRENCE		2005	2006	2009	2009	2007	2007	2002	2004	2004	2007	2000	2008	MAR 2009	
	MAXIMUM 3-SECOND SPEED (MPH)	15	61	52	64	59	59	64	51	64	56	60	52	60	64	
	DIR. (TENS OF DEGS)		23	24	20	21	21	23	05	22	20	05	26	22	20	
	YEAR OF OCCURRENCE		2008	2008	2009	2007	2007	2007	2004	2005	2007	2007	2001	2008	MAR 2009	
<b>PRECIPITATION</b>	NORMAL (IN)	30	2.18	2.56	2.62	1.29	0.80	0.43	2.40	2.89	2.12	1.93	1.86	1.83	22.91	
	MAXIMUM MONTHLY (IN)	60	9.55	10.05	6.75	5.62	4.14	2.92	6.62	8.06	6.75	9.86	6.64	7.30	10.05	
	YEAR OF OCCURRENCE		1993	1993	1970	1965	1992	1955	1986	1986	1983	1972	1985	1967	FEB 1993	
	MINIMUM MONTHLY (IN)	60	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)	60	2.71	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		1993	1993	1970	1985	1965	1956	1964	1986	1965	1972	1978	2004	FEB 1993	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.0	8.1	9.4	5.8	5.4	2.7	11.3	12.8	7.7	5.7	5.1	6.6	88.6	
	PRECIPITATION >= 1.00	30	0.3	0.5	0.3	0.1	0.0	0.0	0.4	0.5	0.5	0.4	0.4	0.3	3.7	
<b>SNOWFALL</b>	NORMAL (IN)	30	23.0	21.3	24.4	9.7	1.3	0.*	0.0	0.0	0.*	2.8	13.3	14.0	109.8	
	MAXIMUM MONTHLY (IN)	52	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)	52	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)	51	34	40	37	31	8	0	0	0	T	11	23	66	66	
	YEAR OF OCCURRENCE		1979	1979	1969	1973	1954				1965	1974	1975	1967	DEC 1967	
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	4.8	4.7	5.7	2.3	0.5	0.0	0.0	0.0	0.0	0.6	2.7	4.0	25.3	

**PRECIPITATION (inches) 2009 FLAGSTAFF (KFLG)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	6.52	7.81	4.16	1.21	1.79	0.25	2.49	2.19	0.65	1.08	T	1.15	29.30
1981	1.31	1.16	4.04	1.50	0.72	1.09	2.87	3.73	2.54	1.81	2.43	0.17	23.37
1982	4.62	2.55	5.69	0.25	0.86	T	1.89	2.32	3.17	0.71	5.36	3.67	31.09
1983	1.61	3.04	4.36	2.18	0.06	0.28	2.86	3.53	6.75	0.75	1.53	2.52	29.47
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
POR= 83 YRS	2.07	2.00	2.05	1.26	0.66	0.45	2.44	2.72	1.88	1.44	1.55	2.02	20.54

WBAN : 03103

**AVERAGE TEMPERATURE (°F) 2009 FLAGSTAFF (KFLG)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	30.7	32.8	32.3	41.9	45.6	60.9	69.0	66.3	59.7	49.0	41.4	39.9	47.5
1981	36.2	36.3	36.6	48.5	52.1	66.1	68.2	65.4	58.7	46.7	41.8	36.4	49.4
1982	28.3	30.5	35.3	43.5	49.9	57.1	63.8	65.6	57.6	44.0	35.2	28.1	44.9
1983	31.0	32.3	36.2	37.0	49.9	57.3	65.5	63.8	60.7	48.6	36.9	34.0	46.1
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
POR= 83 YRS	28.7	30.7	36.3	42.7	51.2	59.2	66.3	64.4	57.2	47.4	36.8	30.2	45.9

**HEATING DEGREE DAYS (base 65°F) 2009 FLAGSTAFF (KFLG)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	6	43	153	491	703	774	886	794	873	486	398	50	5657
1981-82	1	39	182	558	689	880	1130	963	911	640	458	230	6681
1982-83	65	22	218	643	888	1136	1046	911	888	835	461	222	7335
1983-84	26	64	134	502	837	952	1025	929	820	722	247	204	6462
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-	2	53	176	615	759	1251							

WBAN : 03103

**COOLING DEGREE DAYS (base 65°F) 2009 FLAGSTAFF (KFLG)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	0	43	133	91	2	0	0	0	269
1981	0	0	0	0	0	91	108	58	0	0	0	0	257
1982	0	0	0	0	0	1	36	46	6	0	0	0	89
1983	0	0	0	0	0	0	45	31	12	0	0	0	88
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	53	76		0	0	0	
1996	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

**SNOWFALL (inches) 2009 FLAGSTAFF (KFLG)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	6.9	T	6.8	11.7	11.9	45.6	9.5	0.0	0.0	92.4
1981-82	0.0	0.0			0.0	0.0	47.5	20.4	26.7	1.9	0.4	0.0	
1982-83	0.0	0.0	T	T	22.6	27.1	15.3	25.0	38.5	13.6	0.5	0.0	142.6
1983-84	0.0	0.0	0.0	0.0	14.3	5.8	4.3	1.8	0.3	5.5	0.0	0.0	32.0
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-	0.0	0.0	0.0	0.3	T	33.0							
POR= 70 YRS	T	T	0.1	1.5	7.4	13.9	18.7	15.0	16.3	6.6	1.6	T	81.1

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. 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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></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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# 2009 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.

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