

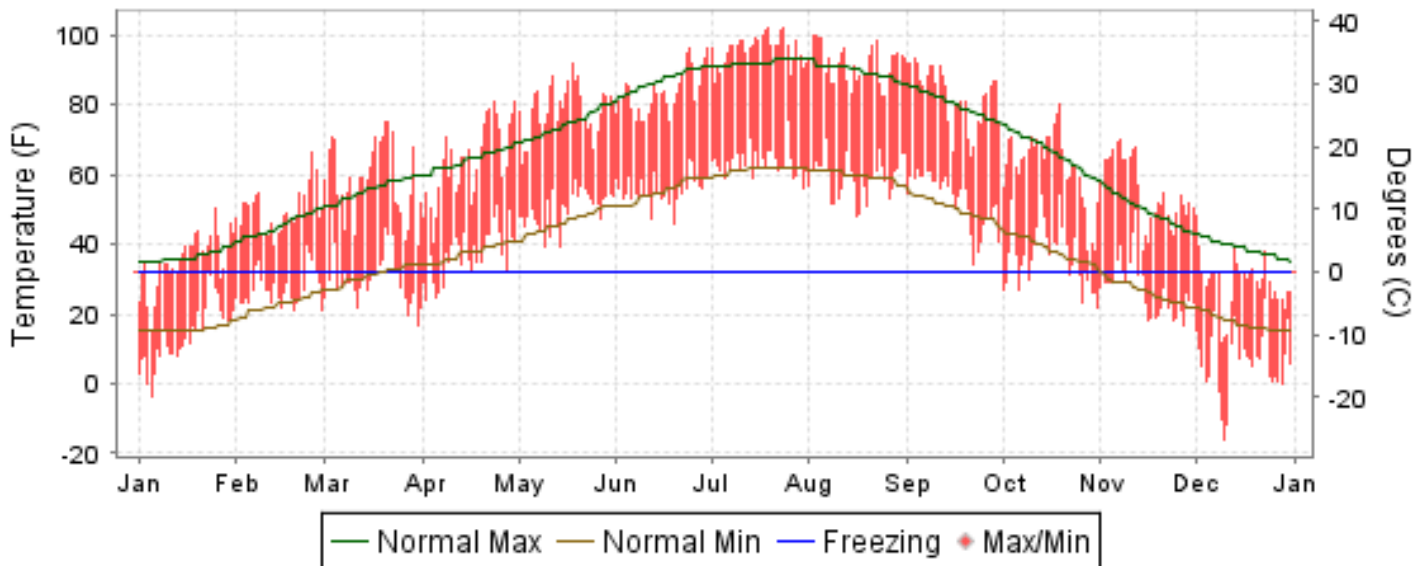


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

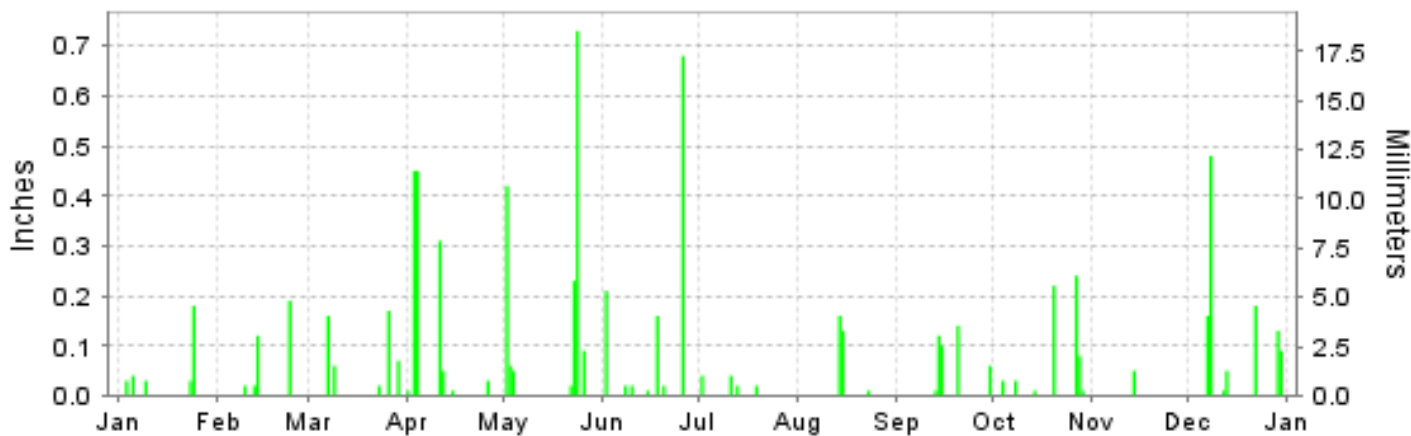
## GRAND JUNCTION, COLORADO (KGJT)

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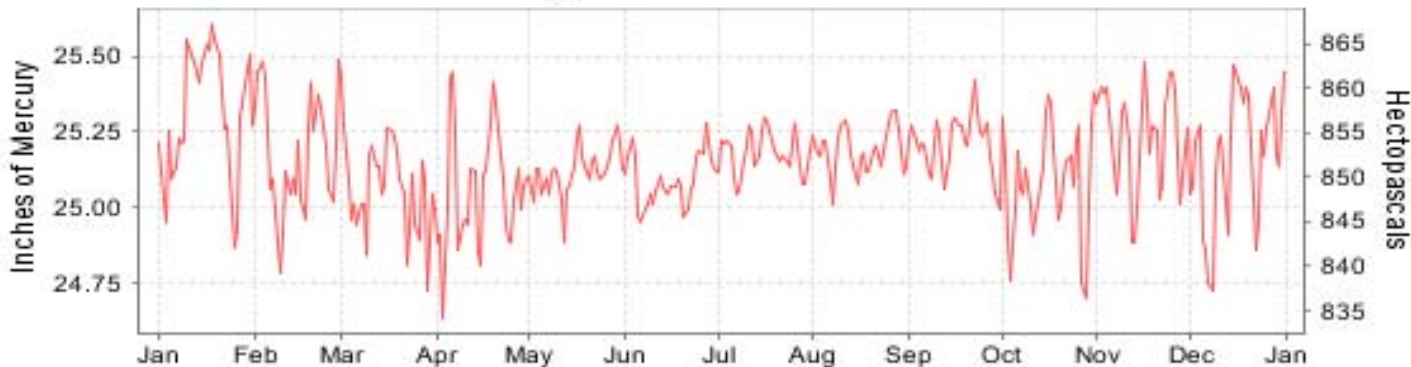
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## GRAND JUNCTION (KGJT)

LATITUDE: 39° 8' N      LONGITUDE: -108° 32' W      ELEVATION (FT): GRND: 4820    BARO: 4826      TIME ZONE: MOUNTAIN (UTC -7)      WBAN: 23066

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	35.2	49.4	58.5	63.8	78.6	83.6	95.8	91.6	82.5	62.3	55.1	28.5	65.4	
	HIGHEST DAILY MAXIMUM	50	66	75	81	92	96	102	100	93	80	70	48	102	
	DATE OF OCCURRENCE	25	25	21+	30+	18	30+	24+	03+	03	19	07	01	JUL 24+	
	MEAN DAILY MINIMUM	14.2	27.5	30.6	37.4	50.3	56.0	63.6	59.4	52.9	36.5	27.2	6.7	38.5	
	LOWEST DAILY MINIMUM	-4	21	17	24	39	46	56	48	34	22	17	-16	-16	
	DATE OF OCCURRENCE	05	28+	30	02	14+	19	30	16	22	31	27	10	DEC 10	
	AVERAGE DRY BULB	24.7	38.5	44.6	50.6	64.5	69.8	79.7	75.5	67.7	49.4	41.2	17.6	52.0	
	MEAN WET BULB	21.8	31.2	33.9	39.9	50.3	53.8	58.3	54.6	52.2	39.4	33.3	16.1	40.4	
	MEAN DEW POINT	16.5	21.2	17.7	26.1	35.9	40.2	42.0	36.2	37.8	26.4	22.9	11.2	27.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	6	28	18	7	0	0	0	60	
MAXIMUM <= 32°	9	0	0	0	0	0	0	0	0	0	0	25	34		
MINIMUM <= 32°	31	23	21	8	0	0	0	0	0	12	24	31	150		
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	5	7		
H/C	HEATING DEGREE DAYS	1241	738	625	423	66	4	0	0	57	481	708	1460	5803	
	COOLING DEGREE DAYS	0	0	0	0	55	156	462	331	145	3	0	0	1152	
RH	MEAN (PERCENT)	74	56	39	44	41	39	30	27	37	45	52	76	47	
	HOUR 05 LST	80	71	55	63	57	54	45	42	53	57	66	83	61	
	HOUR 11 LST	64	43	28	33	30	27	22	20	29	36	41	68	37	
	HOUR 17 LST	74	45	25	32	30	28	20	17	28	39	46	77	38	
	HOUR 23 LST	77	64	47	50	49	46	33	31	42	51	59	79	52	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	2	1	0	0	0	0	0	0	0	0	4	10	
	THUNDERSTORMS	0	0	0	0	6	3	6	2	6	1	0	0	24	
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.)	25.32	25.18	25.07	25.06	25.12	25.09	25.18	25.19	25.21	25.09	25.24	25.17	25.16	
	MEAN SEA-LEVEL PRESS. (IN.)	30.32	30.07	29.88	29.85	29.85	29.79	29.85	29.88	29.93	29.89	30.12	30.19	29.97	
WINDS	RESULTANT SPEED (MPH)	1.3	1.2	1.2	1.3	0.5	3.3	2.8	2.5	2.5	1.6	2.1	1.3	1.6	
	RES. DIR. (TENS OF DEGS.)	09	07	16	14	13	14	12	14	11	11	11	02	12	
	MEAN SPEED (MPH)	4.0	5.8	8.1	8.8	7.2	9.0	8.0	8.2	8.3	6.9	5.5	3.6	7.0	
	PREVAIL.DIR.(TENS OF DEGS.)	08	11	11	11	13	12	12	12	12	11	11	08	12	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	31	52	45	36	35	39	37	43	38	26	30	52	
	DIR. (TENS OF DEGS.)	32	20	25	25	28	15	35	20	19	16	27	33	25	
	DATE OF OCCURRENCE	26	17	22	25	11	05	19	05	30	04	13	08	MAR 22	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	46	66	54	52	48	64	51	59	48	32	35	66	
DIR. (TENS OF DEGS.)	32	22	26	19	19	20	32	21	18	17	27	34	26		
DATE OF OCCURRENCE	26	17	22	25	19	04	29	05	30	13	13	08	MAR 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.31	0.35	0.48	1.31	1.60	1.12	0.12	0.30	0.43	0.62	0.05	1.10	7.79	
	GREATEST 24-HOUR (IN.)	0.18	0.19	0.17	0.84	0.85	0.68	0.04	0.29	0.22	0.32	0.05	0.64	0.85	
	DATE OF OCCURRENCE	24	23	26	03-04	23-24	26	11+	14-15	14-15	27-28	14	07-08	MAY 23-24	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	5	4	5	7	7	7	4	3	5	7	1	7	62	
PRECIPITATION 0.10	1	2	2	3	3	3	0	2	3	2	0	4	25		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.5	2.3	2.6	1.9	T	T	0.0	0.0	0.0	1.9	0.4	14.4	25.0	
	GREATEST 24-HOUR (IN.)	0.7	1.9	1.2	1.9	T	T	0.0	0.0	0.0	0.9	0.4	7.2	7.2	
	DATE OF OCCURRENCE	09	13	07	04	26	26				28	14	08	DEC 08	
	MAXIMUM SNOW DEPTH (IN.)	3	2	1	2	0	0	0	0	0	1	T	7	7	
	DATE OF OCCURRENCE	21+	13	30+	04						28	15+	31	DEC 31	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	1	1	1	0	0	0	0	0	0	0	5	8		

# NORMALS, MEANS, AND EXTREMES

## GRAND JUNCTION (KGJT)

LATITUDE: 39 ° 8 'N      LONGITUDE: -108° 32'W      ELEVATION (FT): GRND: 4820    BARO: 4826      TIME ZONE: MOUNTAIN (UTC -7)      WBAN: 23066

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	36.6	45.4	55.7	64.3	74.5	86.9	92.1	89.6	80.3	66.7	49.8	38.9	65.1
	MEAN DAILY MAXIMUM	110	36.6	42.9	55.1	64.2	75.6	85.5	92.8	89.4	79.4	67.1	50.4	38.8	64.8
	HIGHEST DAILY MAXIMUM	63	60	68	81	89	101	105	106	103	100	88	76	64	106
	YEAR OF OCCURRENCE		1971	1986	2004	1992	2000	1990	2005	2000	1995	2003	2008	1980	JUL 2005
	MEAN OF EXTREME MAXS.	110	49.5	58.7	71.0	80.7	89.9	98.2	101.0	98.2	92.6	81.6	65.1	52.2	78.2
	NORMAL DAILY MINIMUM	30	15.6	22.7	31.0	37.5	46.4	55.3	61.4	59.7	50.4	38.6	26.3	17.5	38.5
	MEAN DAILY MINIMUM	110	15.9	22.4	31.2	38.7	48.2	56.3	64.1	61.9	52.2	40.9	27.8	18.6	39.9
	LOWEST DAILY MINIMUM	63	-23	-18	5	11	26	34	44	43	29	18	-4	-17	-23
	YEAR OF OCCURRENCE		1963	1989	1948	1975	2002	1976	1993	1968	1978	1993	2004	1990	JAN 1963
	MEAN OF EXTREME MINS.	110	1.7	8.2	17.7	25.5	34.5	44.3	55.7	52.9	39.9	28.0	14.6	4.8	27.3
	NORMAL DRY BULB	30	26.1	34.1	43.4	50.9	60.5	71.1	76.8	74.7	65.4	52.7	38.1	28.2	51.8
	MEAN DRY BULB	110	26.3	32.7	43.1	51.5	61.9	71.0	78.5	75.7	65.9	54.0	39.1	28.7	52.4
	MEAN WET BULB	26	23.2	28.3	33.8	38.5	45.1	49.7	56.1	55.8	49.3	40.8	31.2	24.0	39.7
	MEAN DEW POINT	26	19.3	23.4	26.0	29.4	34.6	37.6	45.6	47.1	40.3	32.3	25.9	19.4	31.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	1.1	15.4	24.0	19.6	4.3	0.0	0.0	0.0	64.4
	MAXIMUM <= 32	30	10.0	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.0	19.2
MINIMUM <= 32	30	30.1	24.4	15.7	6.1	0.4	0.0	0.0	0.0	0.2	3.5	21.9	29.8	132.1	
MINIMUM <= 0	30	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	1.0	4.7	
H/C	NORMAL HEATING DEG. DAYS	30	1194	860	656	409	178	33	12	1	73	367	792	1125	5700
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	44	232	394	318	100	1	0	0	1091
RH	NORMAL (PERCENT)	30	72	64	52	44	40	30	34	38	40	47	60	69	49
	HOOR 05 LST	30	79	74	65	59	56	44	49	52	54	60	71	78	62
	HOOR 11 LST	30	65	55	43	36	32	24	29	32	34	39	51	61	42
	HOOR 17 LST	30	63	49	36	29	26	19	22	25	27	33	48	59	36
	HOOR 23 LST	30	77	69	58	49	45	32	37	41	43	52	66	74	54
S	PERCENT POSSIBLE SUNSHINE	56	61	65	65	70	73	81	79	77	79	74	63	61	71
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI) THUNDERSTORMS	46 62	2.8 0.1	1.6 0.2	0.6 0.8	0.2 1.8	0.0 4.4	0.0 4.5	0.0 7.4	0.0 7.7	0.0 5.3	0.2 1.6	0.9 0.4	2.1 0.1	8.4 34.3
CLOUDNESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	50	4.9	5.0	5.0	4.8	4.4	3.2	3.3	3.4	2.9	3.4	4.2	4.5	4.1
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.6	4.4	4.6	4.3	4.0	3.0	3.2	3.3	2.7	3.2	4.0	4.3	3.8
	MEAN NO. DAYS WITH:														
	CLEAR	50	9.1	7.6	8.0	7.9	9.6	14.9	13.7	13.1	16.0	14.7	10.4	9.6	134.6
PARTLY CLOUDY	50	7.0	7.4	8.6	9.4	10.7	9.4	11.2	11.2	8.1	7.6	7.4	7.6	105.6	
CLOUDY	50	14.8	13.3	14.4	12.7	10.7	5.7	5.5	6.1	5.3	8.0	11.6	13.1	121.2	
PR	MEAN STATION PRESSURE(IN)	26	25.25	25.18	25.12	25.09	25.09	25.12	25.19	25.22	25.20	25.20	25.23	25.25	25.18
	MEAN SEA-LEVEL PRES. (IN)	26	30.23	30.13	29.96	29.87	29.82	29.81	29.86	29.90	29.93	30.01	30.12	30.22	29.99
WINDS	MEAN SPEED (MPH)	26	5.6	6.6	8.0	8.9	9.2	9.5	9.3	8.9	8.6	7.7	6.3	5.6	7.9
	PREVAIL.DIR(TENS OF DEGS)	4	08	11	11	11	12	12	12	12	12	12	11	08	12
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	13	40	41	53	49	46	48	45	45	44	51	45	44	53
	DIR. (TENS OF DEGS)		18	20	34	19	18	30	35	31	26	24	33	22	34
	YEAR OF OCCURRENCE		2005	1998	2001	2007	2008	1999	2002	2002	2007	2006	2005	2007	MAR 2001
	MAXIMUM 3-SECOND														
SPEED (MPH)	13	49	55	66	63	68	55	68	64	59	62	55	54	68	
DIR. (TENS OF DEGS)		18	19	26	20	28	31	36	26	18	25	33	21	28	
YEAR OF OCCURRENCE		2005	1998	2009	2007	2004	1999	2002	1999	2009	2006	2005	2007	MAY 2004	
PRECIPITATION	NORMAL (IN)	30	0.60	0.50	1.00	0.86	0.98	0.41	0.66	0.84	0.91	1.00	0.71	0.52	8.99
	MAXIMUM MONTHLY (IN)	63	2.46	1.56	2.02	2.30	2.04	2.07	1.92	3.48	2.84	3.45	2.00	2.05	3.48
	YEAR OF OCCURRENCE		1957	1948	1979	2004	1995	1969	1983	1957	1997	1972	1983	2007	AUG 1957
	MINIMUM MONTHLY (IN)	63	T	T	0.02	0.06	T	T	0.01	0.04	T	0.00	T	0.01	0.00
	YEAR OF OCCURRENCE		1961	1972	1972	1958	1970	1980	1994	1956	1953	1952	1989	1976	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	63	.74	0.81	1.15	1.33	1.13	1.57	1.42	1.68	1.35	1.24	0.83	1.16	1.68
	YEAR OF OCCURRENCE		2005	1996	1993	1965	1983	1969	1974	1997	1965	1957	1983	1951	AUG 1997
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	6.6	5.4	7.8	7.1	7.1	4.0	5.5	6.3	6.5	6.2	6.0	5.6	74.1
PRECIPITATION >= 1.00	30	0.0	0.0	*	0.0	0.0	0.0	*	0.1	0.0	0.0	0.0	0.0	0.1	
SNOWFALL	NORMAL (IN)	30	6.0	3.2	2.8	1.5	0.2	0.0	0.0	0.0	0.0	0.7	2.3	4.8	21.5
	MAXIMUM MONTHLY (IN)	63	33.7	18.4	14.9	14.3	5.0	T	T	T	3.1	6.1	12.1	19.0	33.7
	YEAR OF OCCURRENCE		1957	1948	1948	1975	1979	2009	2001	1993	1965	1975	1964	1983	JAN 1957
	MAXIMUM IN 24 HOURS (IN)	63	9.1	9.0	6.1	8.9	5.0	T	T	T	3.1	6.1	8.4	7.2	9.1
	YEAR OF OCCURRENCE'		1957	1989	1948	1975	1979	2009	2001	1993	1965	1975	1954	2009	JAN 1957
	MAXIMUM SNOW DEPTH (IN)	61	16	12	8	7	1	0	0	0	2	5	8	11	16
	YEAR OF OCCURRENCE		1957	1957	1960	1975	1979				1965	1975	1954	1983	JAN 1957
	NORMAL NO. DAYS WITH:														
SNOWFALL >= 1.0	30	2.2	1.0	0.9	0.5	0.1	0.0	0.0	0.0	0.0	0.2	0.8	1.8	7.5	

**PRECIPITATION (inches) 2009 GRAND JUNCTION (KGJT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	0.57	1.10	1.77	0.53	1.17	T	0.96	1.39	0.58	1.31	0.52	0.24	10.14
1981	0.44	0.16	1.35	0.56	1.49	0.17	0.41	0.82	0.25	2.06	0.47	0.60	8.78
1982	0.29	0.41	0.79	0.09	0.75	0.21	0.35	0.94	2.81	0.83	0.48	0.27	8.22
1983	0.50	0.64	1.59	0.90	1.68	1.54	1.92	0.73	1.11	0.36	2.00	1.85	14.82
1984	0.28	0.11	1.57	1.21	0.55	1.68	0.62	1.77	0.34	2.65	0.38	0.43	11.59
1985	0.51	0.26	0.92	1.78	1.09	0.39	1.21	0.24	1.67	2.32	1.10	0.73	12.22
1986	0.13	0.33	0.25	0.71	1.15	0.15	0.94	0.97	1.52	1.22	1.02	0.47	8.86
1987	0.30	1.21	1.95	0.46	1.51	0.23	1.51	0.83	0.13	0.65	1.92	0.83	11.53
1988	1.07	0.21	0.72	0.99	1.10	0.21	0.18	1.37	0.76	0.02	1.02	0.20	7.85
1989	0.98	1.33	0.51	0.23	0.39	0.24	0.27	1.01	0.33	0.14	T	0.08	5.51
1990	0.59	0.55	1.07	0.71	0.05	0.26	0.96	0.49	1.23	0.95	0.57	0.98	8.41
1991	0.92	0.13	0.70	0.87	0.20	0.30	0.40	0.57	2.30	1.20	1.10	0.54	9.23
1992	0.24	0.35	1.71	0.15	1.81	0.17	1.03	0.84	0.33	1.45	0.76	0.35	9.19
1993	1.36	1.09	1.72	1.30	1.99	0.03	0.04	1.42	0.41	1.34	0.41	0.57	11.68
1994	0.23	0.56	0.25	1.81	0.19	0.04	0.01	0.48	1.50	0.58	0.69	0.64	6.98
1995	0.62	0.52	1.74	0.96	2.04	1.32	0.87	0.47	0.66	0.24	0.20	0.55	10.19
1996	0.65	1.07	0.53	0.90	0.99	0.58	.77	.15	1.53	1.35	1.01	.53	10.06
1997	0.63	0.34	0.53	2.15	1.53	0.29	0.28	2.67	2.84	1.20	0.62	0.14	13.22
1998	0.47	0.48	1.36	0.75	0.21	0.55	1.21	0.61	1.44	1.36	0.42	0.26	9.12
1999	0.09	0.28	0.03	2.06	0.68	0.60	0.51	2.22	1.01	0.17	0.18	0.26	8.09
2000	1.35	0.70	1.26	0.32	0.43	0.34	0.20	0.60	0.60	1.18	0.35	0.18	7.51
2001	0.43	0.67	0.98	0.58	0.57	T	1.20	1.46	0.15	0.99	1.06	0.31	8.40
2002	0.25	0.09	0.64	0.18	0.51	0.08	0.13	1.15	2.54	1.27	0.81	0.22	7.87
2003	0.13	1.03	0.74	0.22	1.88	0.10	0.02	0.40	1.05	0.11	1.06	0.57	7.31
2004	0.82	0.73	0.02	2.30	0.19	0.08	0.10	0.20	2.00	1.09	1.86	0.21	9.60
2005	1.66	0.78	0.65	0.66	0.11	1.59	0.60	0.85	2.52	1.42	0.23	0.75	11.82
2006	0.41	0.02	1.23	0.34	0.11	0.31	0.91	1.46	1.41	2.75	0.55	0.37	9.87
2007	0.49	0.66	0.46	0.99	0.27	0.50	0.96	0.84	1.99	0.46	0.05	2.05	9.72
2008	0.63	0.61	0.41	0.86	0.89	0.50	0.02	1.19	0.23	0.11	0.95	0.86	7.26
2009	0.31	0.35	0.48	1.31	1.60	1.12	0.12	0.30	0.43	0.62	0.05	1.10	7.79
POR= 110 YRS	0.61	0.58	0.81	0.79	0.79	0.45	0.61	0.99	0.96	0.91	0.63	0.59	8.72

WBAN : 23066

**AVERAGE TEMPERATURE (°F) 2009 GRAND JUNCTION (KGJT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	32.6	39.2	40.9	51.4	59.1	74.0	78.6	75.3	67.9	53.8	42.3	40.1	54.6
1981	36.8	37.9	44.0	56.8	60.9	76.4	79.4	76.8	69.2	50.7	41.6	31.3	55.2
1982	26.0	34.7	46.0	51.3	61.4	72.2	79.0	78.2	67.5	51.9	41.2	33.0	53.5
1983	34.3	40.9	45.9	48.7	58.7	69.8	78.3	80.4	71.4	58.2	42.1	30.5	54.9
1984	20.7	31.7	44.4	49.0	66.2	70.1	78.0	76.6	68.3	50.2	40.8	32.6	52.4
1985	31.1	32.0	43.9	54.5	63.6	73.0	77.6	77.1	62.4	52.8	38.8	31.9	53.2
1986	34.2	40.4	49.0	52.5	60.6	74.3	76.0	75.6	63.2	51.5	40.8	32.4	54.2
1987	27.4	36.8	40.1	54.5	61.2	73.5	75.2	72.9	66.2	56.8	39.6	27.9	52.7
1988	17.4	29.2	41.0	53.1	60.9	76.5	80.6	76.2	64.5	58.9	40.7	30.0	52.4
1989	20.2	27.7	47.5	57.0	63.8	71.0	80.5	74.4	68.3	54.9	40.6	29.2	52.9
1990	28.5	35.4	46.8	55.7	61.3	75.2	78.0	76.6	69.7	53.2	39.5	20.6	53.4
1991	17.6	32.0	42.0	48.8	62.0	72.5	77.6	76.2	66.5	55.0	37.7	26.2	51.2
1992	19.9	37.6	47.2	59.0	64.5	71.2	75.1	75.1	67.7	57.8	35.9	24.5	53.0
1993	31.9	36.2	45.6	50.0	61.9	70.1	76.7	73.2	65.9	51.7	35.6	29.2	52.3
1994	31.7	34.2	47.4	53.2	65.3	77.8	81.3	79.4	68.3	52.9	37.1	33.1	55.1
1995	33.7	43.4	46.2	50.6	56.9	67.8	76.1	79.0	68.5	53.3	43.6	35.3	54.5
1996	30.1	40.2	44.9	51.0	64.2	73.3	79.2	77.6	63.0	51.3	39.9	30.7	53.8
1997	30.6	34.2	45.0	46.5	62.2	72.7	76.2	74.0	66.4	51.7	38.2	28.2	52.2
1998	33.5	35.8	41.8	48.8	62.1	67.8	79.1	76.8	70.0	53.3	40.8	25.6	53.0
1999	32.9	37.4	48.5	47.8	58.7	70.6	77.6	73.6	63.5	54.2	43.0	30.3	53.2
2000	32.8	39.5	43.4	56.4	65.8	73.1	80.1	78.4	67.2	54.4	32.8	30.8	54.6
2001	28.0	36.2	45.3	53.8	64.3	74.1	78.9	75.7	69.7	55.0	43.7	28.3	54.4
2002	27.9	30.6	40.0	56.2	62.8	76.0	81.8	75.3	65.6	51.0	37.7	32.3	53.1
2003	35.3	34.9	44.4	53.0	63.1	72.2	84.1	78.2	65.3	57.5	36.6	31.2	54.7
2004	21.7	29.9	49.9	53.2	63.8	72.8	78.6	74.7	64.6	53.4	38.5	28.2	52.4
2005	36.9	38.1	42.4	51.5	62.0	68.6	80.0	74.1	66.9	54.8	41.0	29.6	53.8
2006	32.2	34.7	42.0	54.6	65.1	75.8	79.9	74.8	61.4	50.3	40.0	28.1	53.2
2007	22.6	36.6	46.5	53.2	62.6	74.3	81.7	78.3	67.5	52.9	41.5	25.1	53.6
2008	21.5	32.0	41.4	48.5	58.5	71.6	80.3	76.7	66.5	53.7	41.3	26.0	51.5
2009	24.7	38.5	44.6	50.6	64.5	69.8	79.7	75.5	67.7	49.4	41.2	17.6	52.0
POR= 110 YRS	26.3	32.7	43.1	51.5	61.9	71.0	78.5	75.7	65.9	54.0	39.1	28.7	52.4

**HEATING DEGREE DAYS (base 65°F) 2009 GRAND JUNCTION (KGJT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	2	21	359	674	765	864	754	645	247	153	15	4499
1981-82	0	0	12	439	696	1039	1203	841	581	405	136	6	5358
1982-83	2	0	61	397	704	983	946	668	586	482	238	22	5089
1983-84	0	0	27	208	678	1064	1366	959	631	474	89	44	5540
1984-85	0	0	54	452	719	996	1044	919	646	310	81	12	5233
1985-86	0	0	139	371	779	1018	949	685	489	366	168	3	4967
1986-87	0	0	130	414	718	1001	1159	785	765	314	143	0	5429
1987-88	0	6	34	248	754	1147	1469	1031	741	350	172	8	5960
1988-89	0	0	106	183	724	1078	1379	1038	534	258	113	8	5421
1989-90	0	0	40	316	729	1103	1124	820	557	271	139	20	5119
1990-91	0	0	28	360	759	1371	1464	919	706	478	136	18	6239
1991-92	0	2	37	304	815	1193	1390	788	540	195	53	8	5325
1992-93	0	6	25	222	868	1245	1018	799	597	446	144	33	5403
1993-94	4	0	59	410	875	1102	1025	853	540	360	64	0	5292
1994-95	0	0	24	368	832	984	962	596	578	425	256	47	5072
1995-96	8	0	73	357	634	914	1073	712	614	415	88	2	4890
1996-97	0	0	135	421	748	1055	1056	857	613	547	122	4	5558
1997-98	0	0	42	412	799	1138	970	813	709	478	137	55	5553
1998-99	0	0	9	355	715	1217	987	767	501	508	219	33	5311
1999-00	0	0	88	331	651	1067	992	732	663	256	100	1	4881
2000-01	0	0	58	339	959	1053	1140	802	605	333	105	31	5425
2001-02	0	0	23	316	633	1130	1144	955	767	259	149	6	5382
2002-03	0	1	55	426	817	1010	915	835	631	358	163	1	5212
2003-04	0	0	66	235	847	1040	1336	1011	464	350	104	8	5461
2004-05	0	0	109	353	789	1137	865	746	694	397	157	58	5305
2005-06	0	0	30	318	713	1093	980	841	704	308	88	0	5075
2006-07	0	2	164	450	743	1137	1307	788	569	354	142	19	5675
2007-08	0	0	77	372	698	1231	1340	950	724	485	216	44	6137
2008-09	0	0	25	353	706	1201	1241	738	625	423	66	4	5382
2009-	0	0	57	481	708	1460							

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**COOLING DEGREE DAYS (base 65°F) 2009 GRAND JUNCTION (KGJT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	1	16	280	427	325	115	19	0	0	1183
1981	0	0	0	9	31	367	456	375	143	0	0	0	1381
1982	0	0	0	0	33	229	443	415	144	0	0	0	1264
1983	0	0	0	0	49	171	421	483	226	3	0	0	1353
1984	0	0	0	0	134	200	408	368	159	0	0	0	1269
1985	0	0	0	4	45	261	396	382	67	0	0	0	1155
1986	0	0	0	0	39	289	348	334	82	0	0	0	1092
1987	0	0	0	5	30	262	324	256	76	2	0	0	955
1988	0	0	0	0	51	360	489	357	98	4	0	0	1359
1989	0	0	0	26	85	195	489	300	145	11	0	0	1251
1990	0	0	0	1	34	331	412	368	174	3	0	0	1323
1991	0	0	0	0	50	247	398	356	88	0	0	0	1139
1992	0	0	0	21	43	203	319	328	114	7	0	0	1035
1993	0	0	0	0	56	193	371	260	92	6	0	0	978
1994	0	0	0	13	82	388	514	454	126	0	0	0	1577
1995	0	0	0	0	9	138	362	444	185	3	0	0	1141
1996	0	0	0	1	67	256	448	396	82	4	0	0	1254
1997	0	0	0	0	44	240	353	285	93	8	0	0	1023
1998	0	0	0	0	51	148	445	375	163	0	0	0	1182
1999	0	0	0	0	27	204	401	274	45	4	0	0	955
2000	0	0	0	5	131	249	476	421	129	15	0	0	1426
2001	0	0	0	3	89	311	437	341	170	13	0	0	1364
2002	0	0	0	0	85	341	526	327	80	0	0	0	1359
2003	0	0	0	2	111	226	596	414	83	7	0	0	1439
2004	0	0	0	2	73	250	426	308	105	0	0	0	1164
2005	0	0	0	0	69	177	469	288	95	11	0	0	1109
2006	0	0	0	1	96	331	468	311	64	3	0	0	1274
2007	0	0	0	5	73	305	523	420	163	3	0	0	1492
2008	0	0	0	0	18	247	485	373	77	9	0	0	1209
2009	0	0	0	0	55	156	462	331	145	3	0	0	1152

## SNOWFALL (inches) 2009 GRAND JUNCTION (KGJT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	T	0.0	3.9	0.8	1.2	T	0.0	0.0	5.9
1981-82	0.0	0.0	0.0	0.5	3.3	3.4	3.4	4.0	0.8	T	0.0	0.0	15.4
1982-83	0.0	0.0	0.0	T	T	1.9	6.1	3.1	1.5	2.2	T	0.0	14.8
1983-84	0.0	0.0	0.0	0.0	4.2	19.0	3.7	0.6	6.1	2.9	0.0	0.0	36.5
1984-85	0.0	0.0	0.0	0.7	2.0	2.7	5.0	2.7	5.6	0.1	0.0	0.0	18.8
1985-86	0.0	0.0	0.0	0.0	4.6	4.4	1.8	0.7	T	0.2	T	0.0	11.7
1986-87	0.0	0.0	0.0	2.2	1.2	1.0	3.0	5.5	9.4	0.6	T	0.0	22.9
1987-88	0.0	0.0	0.0	0.0	1.1	7.1	12.2	2.2	4.3	0.0	0.0	0.0	26.9
1988-89	0.0	0.0	0.0	0.0	0.9	3.1	10.2	16.0	1.1	T	T	0.0	31.3
1989-90	0.0	0.0	0.0	0.0	0.0	1.1	6.2	8.6	1.8	0.8	0.0	0.0	18.5
1990-91	0.0	0.0	0.0	0.0	1.5	5.1	12.7	0.3	3.7	4.7	0.0	0.0	28.0
1991-92	0.0	0.0	T	2.5	1.9	7.6	2.7	1.9	T	0.0	T	0.0	16.6
1992-93	0.0	0.0	0.0	0.0	2.0	4.4	6.0	8.4	0.0	0.4	T	0.0	21.2
1993-94	0.0	T	0.0	0.0	0.6	5.9	1.1	4.6	0.3	T	0.0	0.0	12.5
1994-95	0.0	0.0	0.0	T	5.4	2.2	4.0	1.1	3.7	T	T	0.0	16.4
1995-96	0.0	0.0	T	1.2	T	3.7	2.1	0.5	3.0	T	0.0	0.0	10.5
1996-97	0.0	0.0	0.0	1.1	4.2	3.5	4.9	3.2	1.2	6.5	T	T	24.6
1997-98	0.0	T	0.0	0.5	T	1.7	3.8	0.5	3.8	0.1	0.0	T	10.4
1998-99	0.0	0.0	T	0.0	2.5	7.0	0.5	1.4	0.0	3.8	T	0.0	15.2
1999-00	0.0	T	0.0	0.0	T	3.3	3.1	0.6	6.2	0.0	0.0	0.0	13.2
2000-01	0.0	0.0	0.0	0.0	3.6	1.5	4.3	3.3	3.7	0.0	0.0	0.0	16.4
2001-02	T	0.0	T	0.0	2.8	3.3	4.4	0.8	6.2	0.0	0.0	0.0	17.5
2002-03	0.0	0.0	T	0.0	0.3	1.9	T	4.1	3.9	0.6	0.0	0.0	10.8
2003-04	0.0	0.0	0.0	0.0	3.7	3.7	8.1	7.9	T	0.0	2.7	0.0	26.1
2004-05	0.0	0.0	0.0	0.5	10.5	1.2	6.6	1.8	0.9	0.0	T	0.0	21.5
2005-06	0.0	0.0	T	0.0	T	1.9	5.1	0.2	5.5	0.0	0.0	0.0	12.7
2006-07	0.0	0.0	0.0	0.2	3.9	2.7	7.1	2.3	0.1	0.5	0.0	0.0	16.8
2007-08	0.0	0.0	0.0	0.0	T	10.1	7.2	4.6	0.9	T	0.4	0.0	23.2
2008-09	0.0	0.0	0.0	0.0	0.0	13.9	1.5	2.3	2.6	1.9	T	T	22.2
2009-	0.0	0.0	0.0	1.9	0.4	14.4							
POR= 110 YRS	T	T	T	0.4	2.4	5.1	6.0	3.8	3.1	0.9	0.1	T	21.8

WBAN : 23066

### 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 METADATA 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

## GRAND JUNCTION COLORADO (KGJT)

Grand Junction is located at the junction of the Colorado and Gunnison Rivers. It is on the west slope of the Rockies, in a large mountain valley. The area has a climate marked by the wide seasonal range usual to interior localities at this latitude. Thanks, however, to the protective topography of the vicinity, sudden and severe weather changes are very infrequent. The valley floor slopes from 4,800 feet near Palisade to 4,400 feet at the west end near Fruita. Mountains are on all sides at distances of from 10 to 60 miles and reach heights of 9,000 to over 12,000 feet.

This mountain valley location, with attendant valley breezes, provides protection from spring and fall frosts. This results in a growing season averaging 191 days in the city. This varies considerably in the outlying districts. It is about the same in the upper valley around Palisade, and 3 to 4 weeks shorter near the river west of Grand Junction. The growing season is sufficiently long to permit commercial growth of almost all fruits except citrus varieties. Summer grazing of cattle and sheep on nearby mountain ranges is extensive.

The interior, continental location, ringed by mountains on all sides, results in quite low precipitation in all seasons. Consequently, agriculture is dependent on irrigation. Adequate supplies of water are available from mountain snows and rains. Summer rains occur chiefly as

scattered light showers and thunderstorms which develop over nearby mountains. Winter snows are fairly frequent, but are mostly light and quick to melt. Even the infrequent snows of from 4 to 8 inches seldom remain on the ground for prolonged periods. Blizzard conditions in the valley are extremely rare.

Temperatures above 100 degrees are infrequent, and about one-third of the winters have no readings below zero. Summer days with maximum temperatures in the middle 90s and minimums in the low 60s are common. Relative humidity is very low during the summer, with values similar to other dry locations such as the southern parts of New Mexico and Arizona. Spells of cold winter weather are sometimes prolonged due to cold air becoming trapped in the valley. Winds are usually very light during the coldest weather. Changes in winter are normally gradual, and abrupt changes are much less frequent than in eastern Colorado. Cold waves are rare. Sunny days predominate in all seasons.

The prevailing wind is from the east-southeast due to the valley breeze effect. The strongest winds are associated with thunderstorms or with pre-frontal weather. They usually are from the south or southwest.

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