

1999

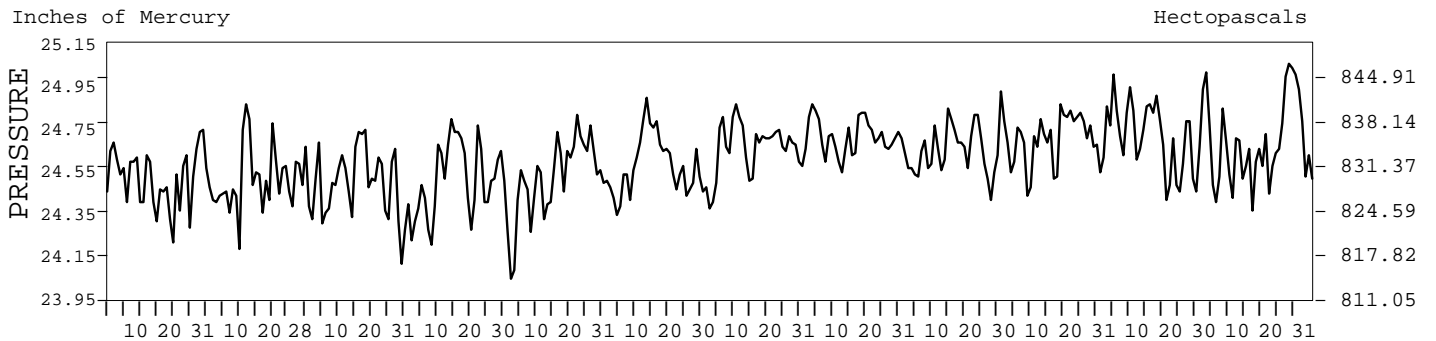
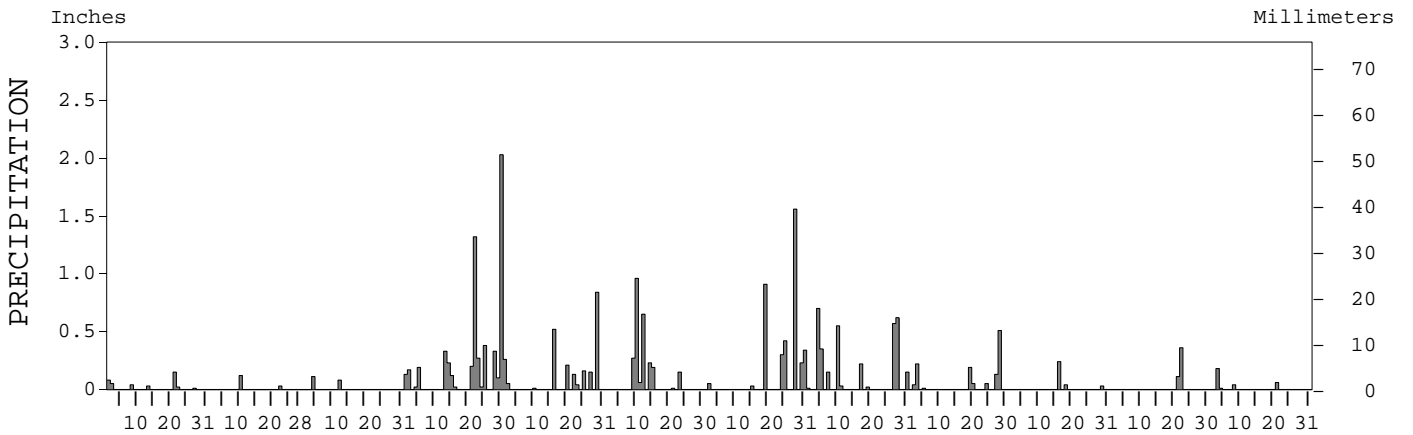
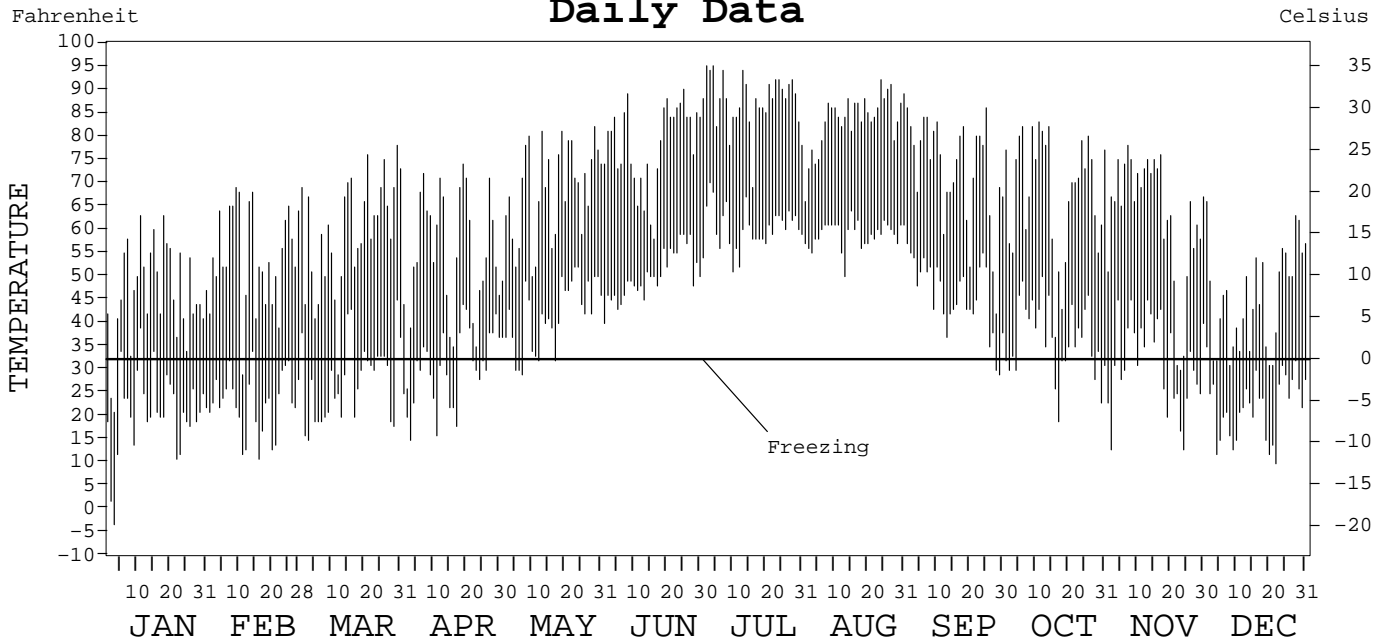
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-7682

DENVER,  
COLORADO (DEN)

Daily Data



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE  
 NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE  
 NATIONAL CLIMATIC DATA CENTER  
 NATIONAL CLIMATIC DATA CENTER  
 DIRECTOR NATIONAL CLIMATIC DATA CENTER  
 ASHEVILLE, NORTH CAROLINA

# METEOROLOGICAL DATA FOR 1999

## DENVER, CO (DEN)

LATITUDE: 39° 49' 58" N      LONGITUDE: 104° 39' 27" W      ELEVATION (FT): GRND: 5380      BARO: 5380      TIME ZONE: MOUNTAIN (UTC + 7)      WBAN: 03017

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	46.5	54.3	59.7	54.6	68.0	78.3	87.5	83.5	72.6	68.3	62.9	45.3	65.1	
	HIGHEST DAILY MAXIMUM	63	69	78	74	82	90	95	92	86	83	78	66	95	
	DATE OF OCCURRENCE	18+	09	30	19	29	25	04+	24	25+	11	07	01	JUL 04+	
	MEAN DAILY MINIMUM	20.9	22.9	27.7	30.5	41.6	50.1	60.3	58.9	45.8	36.6	31.6	22.2	37.4	
	LOWEST DAILY MINIMUM	-3	11	15	15	29	40	51	50	29	19	13	10	-3	
	DATE OF OCCURRENCE	03	16	03	03	07	01	10	13	29	17	24+	22	JAN 03	
	AVERAGE DRY BULB	33.7	38.6	43.7	42.6	54.8	64.2	73.9	71.2	59.2	52.5	47.3	33.8	51.3	
	MEAN WET BULB	28.2	29.7	33.8	36.0	45.7	53.6	60.2	59.9	48.8	40.3	34.6	27.5	41.5	
	MEAN DEW POINT	19.0	13.9	19.8	27.5	37.1	44.9	51.6	53.0	40.2	26.5	16.7	17.2	30.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	12	3	0	0	0	0	0	16
	MAXIMUM ≤ 32°	2	1	1	1	0	0	0	0	0	0	2	5	12	
	MINIMUM ≤ 32°	28	27	22	19	5	0	0	0	2	10	16	30	159	
	MINIMUM ≤ 0°	1	0	0	0	0	0	0	0	0	0	0	0	1	
H/C	HEATING DEGREE DAYS	962	731	654	666	311	85	1	3	194	383	528	962	5480	
	COOLING DEGREE DAYS	0	0	0	0	2	69	283	203	30	2	0	0	589	
RH	MEAN (PERCENT)	60	40	47	63	58	55	52	59	57	46	37	55	52	
	HOUR 05 LST	70	52	66	75	74	76	67	74	74	59	46	61	66	
	HOUR 11 LST	49	28	34	51	44	41	36	45	45	32	28	47	40	
	HOUR 17 LST	55	30	26	50	44	42	42	46	41	35	33	52	41	
	HOUR 23 LST	69	45	55	75	70	64	63	72	67	53	43	62	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	0	0	5	1	1	1	3	3	1	1	1	21	
	THUNDERSTORMS	0	0	0	3	8	12	12	9	4	1	0	0	49	
CLOUDINESS	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.)	24.52	24.52	24.51	24.51	24.52	24.58	24.66	24.71	24.67	24.70	24.73	24.67	24.61	
	MEAN SEA-LEVEL PRESS. (IN.)	29.97	29.92	29.88	29.88	29.82	29.83	29.88	29.95	29.97	30.06	30.07	30.09	29.94	
WINDS	RESULTANT SPEED (MPH)	3.1	3.6	2.9	0.5	1.4	3.4	2.6	3.3	1.1	3.0	4.3	3.9	2.5	
	RES. DIR. (TENS OF DEGS.)	25	24	18	15	19	17	20	22	18	21	20	22	21	
	MEAN SPEED (MPH)	10.0	11.8	10.7	11.8	10.7	10.1	10.2	8.9	8.9	9.6	9.7	10.5	10.2	
	PREVAIL. DIR. (TENS OF DEGS.)	28	21	16	15	20	20	21	22	21	21	21	20	21	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	41	43	37	40	36	49	54	32	39	33	40	36	54	
	DIR. (TENS OF DEGS.)	29	03	24	29	04	30	13	29	18	04	29	01	13	
	DATE OF OCCURRENCE	15	10	30	08	22+	10	28	27+	01	27	18	14	JUL 28	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	48	48	43	48	43	63	64	38	47	38	48	43	64	
DIR. (TENS OF DEGS.)	29	02	23	15	29	29	13	27	19	03	29	35	13		
DATE OF OCCURRENCE	15	10+	30	09	31+	22	28	10	01	27+	18	14	JUL 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.38	0.15	0.19	5.86	2.37	2.52	3.84	3.37	1.20	0.31	0.47	0.29	20.95	
	GREATEST 24-HOUR (IN.)	0.17	0.12	0.11	2.06	0.84	1.15	1.56	1.19	0.64	0.24	0.47	0.18	2.06	
	DATE OF OCCURRENCE	21-22	10	04	29-30	29	09-10	28	27-28	27-28	16	21-22	03	APR 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	2	2	16	10	8	8	11	8	3	2	4	81	
PRECIPITATION ≥ 0.10	1	1	1	13	7	6	6	8	4	1	2	1	51		
PRECIPITATION ≥ 1.00	0	0	0	2	0	0	1	0	0	0	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

# NORMALS, MEANS, AND EXTREMES

DENVER, CO (DEN)

LATITUDE: 39° 49' 58" N      LONGITUDE: 104° 39' 27" W      ELEVATION (FT): GRND: 5380      BARO: 5380      TIME ZONE: MOUNTAIN (UTC + 7)      WBAN: 03017

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	42.5	46.3	52.2	61.4	70.7	81.2	88.1	85.6	76.6	66.3	52.0	43.9	63.9
	MEAN DAILY MAXIMUM	4	43.1	47.4	54.5	56.6	69.2	79.5	87.5	85.9	76.8	64.6	54.3	43.5	63.6
	HIGHEST DAILY MAXIMUM	4	72	69	79	84	93	96	100	99	97	87	78	72	100
	YEAR OF OCCURRENCE		1997	1999	1997	1996	1996	1997	1998	1995	1995	1997	1999	1998	JUL 1998
	MEAN OF EXTREME MAXS.	4	65.8	67.0	76.4	77.0	86.2	92.6	98.2	95.2	92.0	83.4	73.2	64.8	81.0
	NORMAL DAILY MINIMUM	30	13.8	18.3	23.7	32.0	41.2	50.1	56.0	54.2	45.1	34.2	23.4	15.3	33.9
	MEAN DAILY MINIMUM	4	17.5	20.8	24.7	30.9	42.2	50.6	58.7	57.9	48.8	36.0	27.0	19.0	36.2
	LOWEST DAILY MINIMUM	4	-14	-16	-2	6	27	34	44	42	25	3	-3	-19	-19
	YEAR OF OCCURRENCE		1997	1996	1996	1997	1997	1998	1997	1995	1996	1997	1997	1998	DEC 1998
	MEAN OF EXTREME MINS.	4	-5.6	4.2	4.8	15.8	31.2	39.8	49.0	48.8	31.6	18.2	7.0	-1.0	20.3
	NORMAL DRY BULB	30	28.2	32.3	38.0	46.8	55.9	65.6	72.1	69.8	61.0	50.2	37.6	29.6	48.9
	MEAN DRY BULB	4	30.3	34.1	39.6	43.7	55.8	65.1	73.1	71.9	62.8	50.3	40.7	31.3	49.9
	MEAN WET BULB	4	24.7	27.2	24.6	28.6	37.1	42.8	59.0	58.9	51.1	40.1	32.6	25.6	37.7
	MEAN DEW POINT	4	15.2	14.6	19.1	26.5	38.9	45.1	49.6	50.5	41.9	28.4	21.4	15.4	30.5
	NORMAL NO. DAYS WITH: MAXIMUM ≥ 90° MAXIMUM ≤ 32° MINIMUM ≤ 32° MINIMUM ≤ 0°														
H/C	NORMAL HEATING DEG. DAYS	30	1141	916	837	546	288	84	0	11	162	459	822	1097	6363
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	6	102	224	160	42	0	0	0	534
RH	NORMAL (PERCENT)														
	HOUR 05 LST														
	HOUR 11 LST														
	HOUR 17 LST														
	HOUR 23 LST														
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY ≤ 1/4 MI)	4	2.7	1.7	2.3	3.0	2.3	0.8	2.0	1.7	2.0	3.1	2.1	0.8	24.5
	THUNDERSTORMS	4	0.0	0.0	0.0	1.9	8.2	12.2	14.0	11.1	5.9	0.8	0.0	0.0	54.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	1		5.0	5.3	7.2	5.6	2.5		2.5				2.5	
	MIDNIGHT-MIDNIGHT (OKTAS)	1			5.3	7.2	6.4	3.0		2.0					
	MEAN NO. DAYS WITH: CLEAR	1	3.0	10.0	9.0	6.0	10.0	12.0	2.0	7.0	6.0	9.0		13.0	
	PARTLY CLOUDY	1	4.0	2.0	6.0	4.0	5.5	9.0	2.0	9.0	6.0			1.0	
	CLOUDY	1	3.0	6.0	10.0	13.0	5.5	5.0	1.0	3.0	5.0	2.0		2.0	
PR	MEAN STATION PRESSURE (IN)	4	24.49	24.55	24.56	24.53	24.55	24.59	24.68	24.70	24.65	24.60	24.60	24.57	24.59
	MEAN SEA-LEVEL PRES. (IN)	4	29.96	29.99	29.92	29.88	29.84	29.82	29.90	29.93	29.94	29.95	30.00	30.03	29.93
WINDS	MEAN SPEED (MPH)	4	9.4	9.9	10.6	11.1	10.4	10.3	9.6	9.2	9.1	10.0	9.4	10.1	9.9
	PREVAIL. DIR (TENS OF DEGS)	3	20	21	21	01	21	16	21	22	21	21	20	20	21
	MAXIMUM 2-MINUTE: SPEED (MPH)	4	41	43	53	43	43	49	54	43	39	44	40	47	54
	DIR. (TENS OF DEGS)		28	03	28	26	30	30	13	23	18	34	29	30	13
	YEAR OF OCCURRENCE		1996	1999	1995	1995	1997	1999	1999	1998	1999	1995	1999	1997	JUL 1999
	MAXIMUM 5-SECOND: SPEED (MPH)	4	48	48	56	51	49	63	64	49	47	53	48	53	64
	DIR. (TENS OF DEGS)		29	02	32	25	36	29	13	22	19	19	29	30	13
YEAR OF OCCURRENCE		1996	1999	1997	1995	1995	1999	1999	1998	1999	1997	1999	1997	JUL 1999	
PRECIPITATION	NORMAL (IN)	30	0.50	0.54	1.26	1.68	2.62	2.05	1.99	1.65	1.34	0.99	0.89	0.60	16.11
	MAXIMUM MONTHLY (IN)	4	0.38	0.54	0.86	5.86	4.67	3.07	5.92	3.52	2.34	1.87	0.61	0.50	5.92
	YEAR OF OCCURRENCE		1999	1997	1998	1999	1995	1995	1998	1997	1996	1997	1997	1997	JUL 1998
	MINIMUM MONTHLY (IN)	4	0.05	0.09	0.19	0.33	1.57	0.73	1.01	0.56	0.73	0.31	0.31	0.06	0.05
	YEAR OF OCCURRENCE		1998	1996	1999	1996	1997	1998	1996	1996	1998	1999	1995	1995	JAN 1998
	MAXIMUM IN 24 HOURS (IN)	4	0.17	0.29	0.63	2.06	1.16	1.15	3.06	1.19	1.22	1.12	0.47	0.19	3.06
	YEAR OF OCCURRENCE		1999	1997	1996	1999	1996	1999	1997	1999	1996	1997	1999	1997	JUL 1997
	NORMAL NO. DAYS WITH: PRECIPITATION ≥ 0.01 PRECIPITATION ≥ 1.00														
SNOWFALL	NORMAL (IN)														
	MAXIMUM MONTHLY (IN)														
	YEAR OF OCCURRENCE														
	MAXIMUM IN 24 HOURS (IN)														
	YEAR OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN)														
YEAR OF OCCURRENCE															
NORMAL NO. DAYS WITH: SNOWFALL ≥ 1.0															

PRECIPITATION (inches) 1999 DENVER, CO (DEN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1995			0.28	2.44	4.67	3.07	2.31	1.04	2.28	0.72	0.31	0.06	
1996	0.29	0.09	0.77	0.33	2.40	1.77	1.01	0.56	2.34	0.39	0.38	0.06	10.39
1997	0.26	0.54	0.26	1.30	1.57	2.57	5.60	3.52	0.97	1.87	0.61	0.50	19.57
1998	0.05	0.23	0.86	2.47	1.73	0.73	5.92	1.19	0.73	1.20	0.40	0.42	15.93
1999	0.38	0.15	0.19	5.86	2.37	2.52	3.84	3.37	1.20	0.31	0.47	0.29	20.95
POR= 4 YRS	0.25	0.25	0.46	2.76	2.30	2.05	4.25	2.22	1.31	1.12	0.45	0.32	17.74

WBAN : 03017

AVERAGE TEMPERATURE (°F) 1999 DENVER, CO (DEN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1995			39.3	42.9	50.0	62.2	70.9	75.3	61.7	48.5	41.8	33.0	
1996	27.0	33.9	36.0	48.0	58.1	68.2	73.4	71.6	60.8	50.9	37.2	33.0	49.8
1997	27.9	30.0	42.1	40.5	56.6	67.8	73.1	69.7	64.3	49.7	34.8	27.9	48.7
1998	32.7	33.9	36.9	44.8	59.1	63.0	74.3	71.7	68.0	50.2	42.1	28.9	50.5
1999	33.7	38.6	43.7	42.6	54.8	64.2	73.9	71.2	59.2	52.5	47.3	33.8	51.3
POR= 4 YRS	30.3	34.1	40.1	43.4	56.2	65.0	73.4	71.5	63.2	50.6	40.9	31.0	50.0

HEATING DEGREE DAYS (base 65°F) 1999 DENVER, CO (DEN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1994-95									788	655	457	132	
1995-96	26	2	188	505	686	981	1166	894	893	230	29	0	5600
1996-97	0	4	192	444	824	985	1142	975	704	728	264	35	6297
1997-98	2	11	92	475	895	1142	996	865	865	597	186	137	6263
1998-99	1	1	46	453	680	1113	962	731	654	666	311	85	5703
1999-	1	3	194	383	528	962							

WBAN : 03017

COOLING DEGREE DAYS (base 65°F) 1999 DENVER, CO (DEN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1995			0	0	0	55	212	327	98	0	0	0	
1996	0	0	0	3	26	133	269	215	71	13	0	0	730
1997	0	0	0	0	11	126	260	160	77	8	0	0	642
1998	0	0	0	0	13	88	296	215	143	0	0	0	755
1999	0	0	0	0	2	69	283	203	30	2	0	0	589

SNOWFALL (inches) 1999 DENVER, CO (DEN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
POR=													

WBAN : 03017

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.  
 NORMALS ARE 30-YEAR AVERAGES (1961 - 1990).  
 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.

GENERAL CONTINUED:  
 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.  
 WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.  
 RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.  
 AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.  
 SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.  
 A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F.  
 DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.  
 DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.  
 WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

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.

1999  
DENVER,  
COLORADO (DEN)

Denver enjoys the invigorating climate that prevails over much of the central Rocky Mountain region, without the extremely cold mornings of the high elevations during winter, or the hot afternoons of summer at lower altitudes. Extremely warm or cold weather in Denver is usually of short duration.

Situated a long distance from any moisture source, and separated from the Pacific Ocean by several high mountain barriers, Denver enjoys low relative humidity, light precipitation, and abundant sunshine.

Air masses from four different sources influence Denver weather. These include arctic air from Canada and Alaska, warm, moist air from the Gulf of Mexico, warm, dry air from Mexico and the southwestern deserts, and Pacific air modified by its passage over mountains to the west.

In winter, the high altitude and mountains to the west combine to moderate temperatures in Denver. Invasions of cold air from the north, intensified by the high altitude, can be abrupt and severe. However, many of the cold air masses that spread southward out of Canada never reach the altitude of Denver, but move off over the lower plains to the east. Surges of air from the west are moderated in their descent down the east face of the Rockies, and reach Denver in the form of chinook winds that often raise temperatures into the 60s, even in midwinter.

In spring, polar air often collides with warm, moist air from the Gulf of Mexico and these collisions result in frequent, rapid and drastic weather changes. Spring is the cloudiest, windiest, and wettest season in the city. Much of the precipitation falls as snow, especially in March and early April. Stormy periods are interspersed with stretches of mild, sunny weather that quickly melt previous snow cover.

Summer precipitation falls mainly from scattered thunderstorms during the afternoon and evening. Mornings are usually clear and sunny, with clouds forming during early afternoon to cut off the sunshine at what would otherwise be the hottest part of the day. Severe thunderstorms, with large hail and heavy rain occasionally occur in the city, but these conditions are more common on the plains to the east.

Autumn is the most pleasant season. Few thunderstorms occur and invasions of cold air are infrequent. As a result, there is more sunshine and less severe weather than at any other time of the year.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 8 and the average last occurrence in the spring is May 3.

