

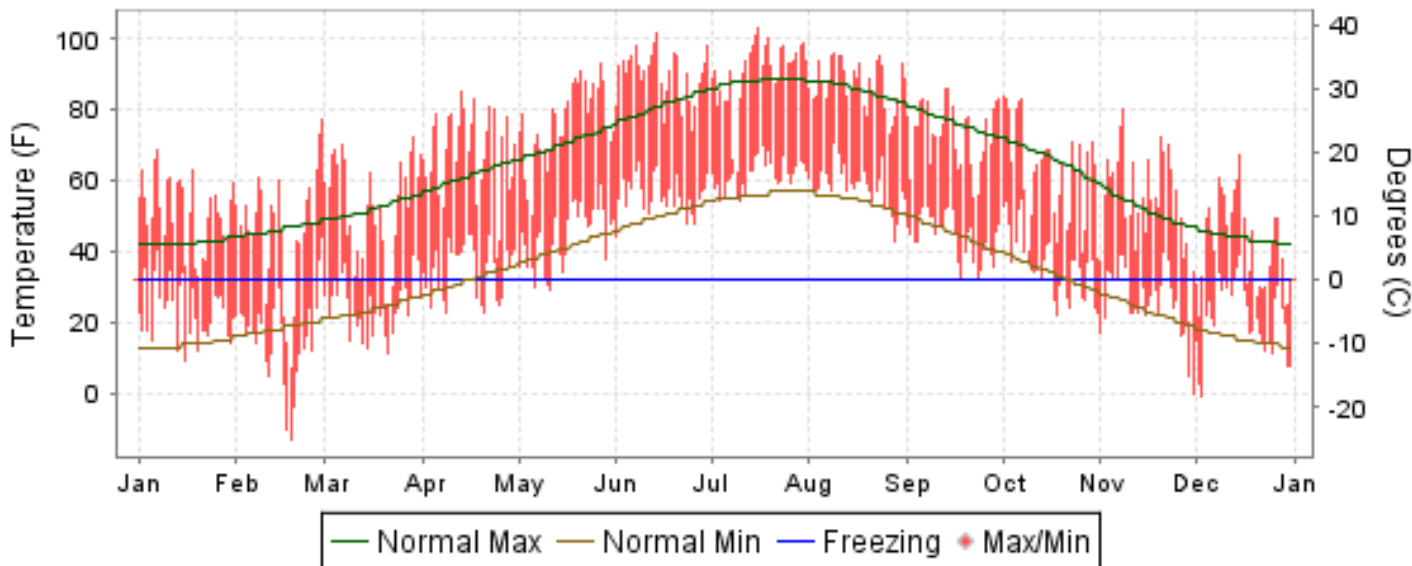


2006 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

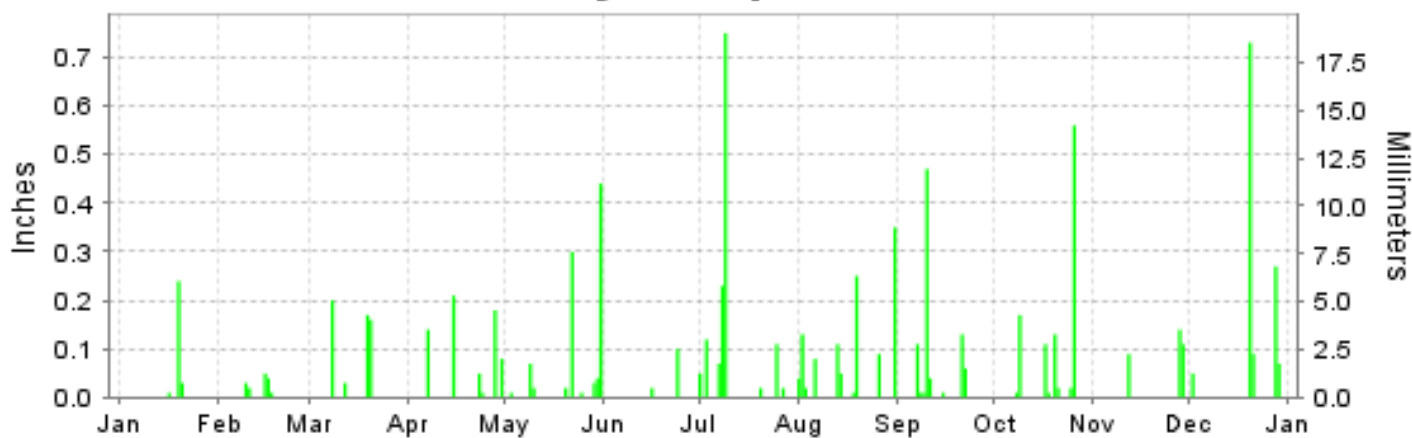
ISSN 0198-7682

DENVER, COLORADO (KDEN)

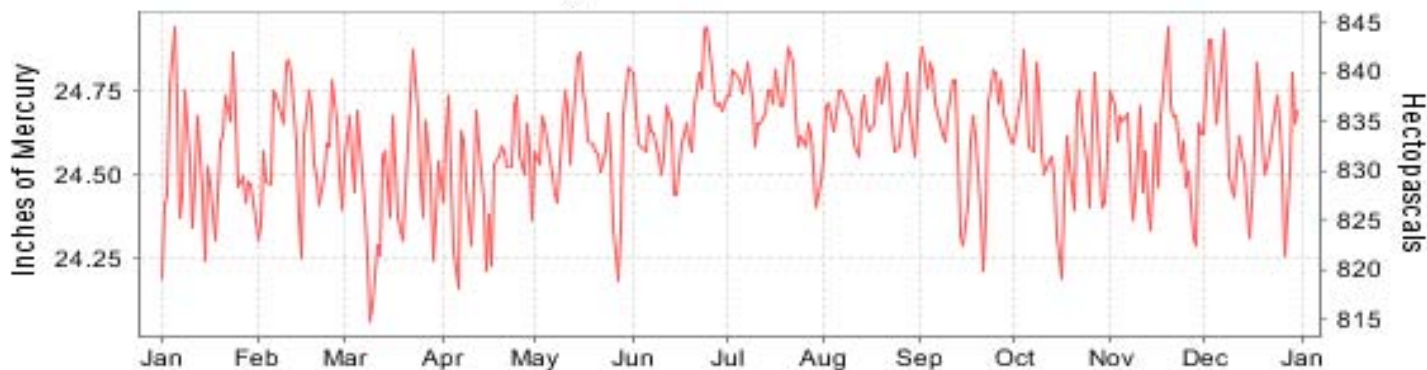
Daily Max/Min Temperature



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 2006

DENVER (KDEN)

LATITUDE: 39° 49'N LONGITUDE: -104° 39'W ELEVATION (FT): GRND: 5437 BARO: 5382 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	51.6	46.1	52.3	68.1	76.5	89.6	90.7	87.2	73.2	62.6	54.8	42.0	66.2	
	HIGHEST DAILY MAXIMUM	69	77	72	85	93	102	103	96	86	84	80	67	103	
	DATE OF OCCURRENCE	07	28	29	13	27	14	16	09	14+	01	08	15	JUL 16	
	MEAN DAILY MINIMUM	23.2	15.7	24.5	34.9	44.2	56.0	61.7	58.4	44.6	36.4	26.1	21.4	37.3	
	LOWEST DAILY MINIMUM	9	-13	11	23	29	44	54	43	32	22	0	-1	-13	
	DATE OF OCCURRENCE	16	18	21	20+	11	01	10+	28	18	18	30	03	FEB 18	
	AVERAGE DRY BULB	37.4	30.9	38.4	51.5	60.4	72.8	76.2	72.8	58.9	49.5	40.5	31.7	51.8	
	MEAN WET BULB	28.9	23.4	30.3	39.1	46.4	54.4	59.8	58.2	47.3	39.8	32.0	26.0	40.5	
	MEAN DEW POINT	12.9	8.4	17.9	22.7	32.1	38.6	48.8	48.7	36.9	30.0	20.0	17.2	27.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	19	21	12	0	0	0	0	52	
MAXIMUM <= 32°	0	5	4	0	0	0	0	0	0	0	1	10	20		
MINIMUM <= 32°	26	26	27	11	4	0	0	0	1	11	23	28	157		
MINIMUM <= 0°	0	3	0	0	0	0	0	0	0	0	1	1	5		
H/C	HEATING DEGREE DAYS	848	948	817	398	192	4	7	8	195	487	727	1028	5659	
	COOLING DEGREE DAYS	0	0	0	0	56	247	363	261	20	14	0	0	961	
RH	MEAN (PERCENT)	40	45	52	39	41	34	46	50	52	56	50	60	47	
	HOUR 05 LST	50	57	68	55	57	52	59	68	72	65	61	64	61	
	HOUR 11 LST	28	30	38	26	25	20	28	30	34	43	35	50	32	
	HOUR 17 LST	37	38	43	29	29	21	37	40	43	53	50	62	40	
	HOUR 23 LST	45	56	60	51	54	44	60	65	63	66	57	63	57	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	1	6	0	2	0	0	2	1	2	3	3	21	
	THUNDERSTORMS	0	0	0	1	6	7	13	10	5	1	0	0	43	
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.)	24.52	24.57	24.50	24.50	24.60	24.65	24.70	24.68	24.64	24.58	24.57	24.78	24.61	
	MEAN SEA-LEVEL PRESS. (IN.)	29.94	30.05	29.93	29.82	29.87	29.88	29.90	29.91	29.94	29.93	29.98	30.11	29.94	
WINDS	RESULTANT SPEED (MPH)	5.4	2.2	2.0	2.1	1.9	2.7	2.6	3.9	1.7	1.7	2.7	3.5	2.4	
	RES. DIR. (TENS OF DEGS.)	25	26	24	25	19	17	21	18	22	20	22	22	22	
	MEAN SPEED (MPH)	11.3	10.1	10.9	11.4	10.7	11.0	10.1	10.6	9.2	10.1	9.6	10.8	10.5	
	PREVAIL.DIR.(TENS OF DEGS.)	21	22	36	22	24	17	23	17	24	22	21	21	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	37	37	45	40	45	41	44	36	45	39	40	37	45	
	DIR. (TENS OF DEGS.)	28	34	27	21	21	20	16	14	31	34	34	34	31	
	DATE OF OCCURRENCE	07	03	26	17	25	12	17	11	16	26	14	20	SEP 16	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	46	52	48	54	54	52	44	54	47	52	55	55	
DIR. (TENS OF DEGS.)	27	34	27	21	21	20	16	18	31	35	35	36	36		
DATE OF OCCURRENCE	03	03	26	17	25	12	17	11	16	26	14	20	DEC 20		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.28	0.15	0.56	0.67	0.94	0.12	1.37	1.13	0.84	1.03	0.34	1.21	8.64	
	GREATEST 24-HOUR (IN.)	0.27	0.09	0.24	0.21	0.48	0.10	0.77	0.35	0.47	0.58	0.25	0.84	0.84	
	DATE OF OCCURRENCE	19-20	15-16	19-20	15	30-31	24	08-09	31	10	25-26	28-29	20-21	DEC 20-21	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	3	5	4	6	9	2	8	10	8	8	3	5	71	
PRECIPITATION 0.10	1	0	3	3	2	1	4	4	3	4	2	2	29		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.6	3.0	8.6	0.3	0.2	T	0.0	T	0.0	9.8	4.4	29.4	59.3	
	GREATEST 24-HOUR (IN.)	3.3	1.9	5.0	0.3	0.2	T	0.0	T	0.0	5.3	2.8	17.4	17.4	
	DATE OF OCCURRENCE	20	09	20	25	10	24		31		26	28	20	DEC 20	
	MAXIMUM SNOW DEPTH (IN.)	3	2	3	0	T	0	0	0	0	3	3	21	21	
	DATE OF OCCURRENCE	22+	12+	21	10	10					26	29	22	DEC 22	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	0	1	3	0	0	0	0	0	0	3	2	4	13		

NORMALS, MEANS, AND EXTREMES DENVER (KDEN)

LATITUDE: 39 ° 49'N LONGITUDE: -104 ° 39'W ELEVATION (FT): GRND: 5437 BARO: 5382 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	43.2	47.2	53.7	60.9	70.5	82.1	88.0	86.0	77.4	66.0	51.5	44.1	64.2
	MEAN DAILY MAXIMUM	11	45.1	46.0	53.7	60.7	71.1	80.0	89.6	86.5	77.5	64.5	52.1	44.1	64.2
	HIGHEST DAILY MAXIMUM	11	72	77	79	85	94	102	105	100	97	89	80	72	105
	YEAR OF OCCURRENCE		1997	2006	2004	2006	2003	2006	2005	2002	1995	2005	2006	1998	JUL 2005
	MEAN OF EXTREME MAXS.	11	66.1	67.5	74.3	79.5	88.9	93.4	100.0	96.3	91.5	83.6	72.5	64.0	81.5
	NORMAL DAILY MINIMUM	30	15.2	19.1	25.4	34.2	43.8	53.0	58.7	57.4	47.3	35.9	23.5	16.4	35.8
	MEAN DAILY MINIMUM	11	19.1	19.8	25.6	33.3	43.1	50.9	59.9	57.7	48.5	36.3	25.7	19.2	36.6
	LOWEST DAILY MINIMUM	11	-14	-16	-4	6	22	34	44	42	25	3	-3	-19	-19
	YEAR OF OCCURRENCE		1997	1996	2002	1997	2002	1998	1997	2004	1996	1997	2003	1998	DEC 1998
	MEAN OF EXTREME MINS.	11	-0.7	-0.7	8.3	19.0	28.9	39.6	51.1	48.0	33.4	20.9	3.1	-0.6	20.9
	NORMAL DRY BULB	30	29.2	33.2	39.6	47.6	57.2	67.6	73.4	71.7	62.4	51.0	37.5	30.3	50.1
	MEAN DRY BULB	11	32.1	32.9	39.7	47.0	57.1	66.5	74.8	72.1	63.0	50.4	38.9	31.7	50.5
	MEAN WET BULB	11	24.4	25.2	30.8	36.8	45.9	52.6	58.2	57.4	49.6	39.5	30.5	24.9	39.7
	MEAN DEW POINT	11	16.9	16.9	21.5	28.4	38.8	45.2	49.5	49.7	40.7	29.8	21.8	16.2	31.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	*	0.5	7.3	15.0	9.4	2.9	0.0	0.0	0.0	35.1
	MAXIMUM <= 32	30	6.2	4.3	2.0	0.5	0.0	0.0	0.0	0.0	*	0.4	2.7	5.3	21.4
	MINIMUM <= 32	30	29.6	25.8	23.1	11.0	1.1	0.0	0.0	0.0	1.1	8.2	23.9	28.8	152.6
MINIMUM <= 0	30	3.2	1.5	0.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.5	7.6	
H/C	NORMAL HEATING DEG. DAYS	30	1111	892	788	524	267	60	1	9	136	436	826	1078	6128
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	23	136	261	217	57	0	0	0	696
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)	11	3.1	2.2	3.8	2.8	2.7	1.1	1.2	1.1	1.3	2.2	2.5	1.3	25.3
	THUNDERSTORMS	11	0.0	0.2	0.7	2.6	6.5	11.8	11.8	10.9	5.3	0.8	0.0	0.0	50.6
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)			5.0	5.3	7.2	5.6	2.5		2.5				2.5	
	MIDNIGHT-MIDNIGHT (OKTAS)				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)	11	24.55	24.54	24.53	24.53	24.56	24.61	24.68	24.70	24.65	24.61	24.60	24.58	24.60
	MEAN SEA-LEVEL PRES. (IN)	11	30.01	29.99	29.92	29.86	29.84	29.84	29.89	29.93	29.92	29.95	30.02	30.03	29.93
WINDS	MEAN SPEED (MPH)	11	9.5	9.8	10.5	11.5	10.5	10.3	9.7	9.6	9.4	9.7	9.4	9.8	10.0
	PREVAIL.DIR (TENS OF DEGS)	10	22	22	22	22	22	17	22	23	23	22	22	22	22
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	41	47	53	53	49	49	54	49	45	46	52	54	54
	DIR. (TENS OF DEGS)		31	34	28	33	22	30	13	28	31	29	32	28	28
	YEAR OF OCCURRENCE		2002	2002	1995	2001	2002	1999	1999	2001	2006	2001	2005	2005	DEC 2005
	MAXIMUM 5-SECOND SPEED (MPH)	11	49	58	56	60	58	63	64	61	54	54	61	64	64
	DIR. (TENS OF DEGS)		31	33	32	33	18	29	13	29	31	29	32	28	28
YEAR OF OCCURRENCE		2002	2002	1997	2001	2002	1999	1999	2001	2006	2001	2005	2005	DEC 2005	
PRECIPITATION	NORMAL (IN)	30	0.51	0.49	1.28	1.93	2.32	1.56	2.16	1.82	1.14	0.99	0.98	0.63	15.81
	MAXIMUM MONTHLY (IN)	11	0.78	0.64	3.05	5.86	4.67	3.99	5.92	3.52	2.34	2.16	0.72	1.21	5.92
	YEAR OF OCCURRENCE		2001	2001	2003	1999	1995	2005	1998	1997	1996	2005	2001	2006	JUL 1998
	MINIMUM MONTHLY (IN)	11	0.03	.02	0.14	0.23	.71	0.12	.27	0.56	.07	0.08	0.05	0.04	0.02
	YEAR OF OCCURRENCE		2003	2005	2004	2002	2005	2006	2005	1996	2005	2001	2003	2004	FEB 2005
	MAXIMUM IN 24 HOURS (IN)	11	0.51	0.30	1.64	2.06	2.00	2.43	3.06	1.71	1.22	1.42	0.47	0.84	3.06
	YEAR OF OCCURRENCE		2001	2001	2003	1999	2000	2003	1997	2004	1996	2005	1999	2006	JUL 1997
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	5.8	5.6	8.1	8.8	11.4	8.6	9.3	9.3	7.0	5.1	6.3	5.7	91.0
	PRECIPITATION >= 1.00	30	0.0	0.0	0.2	0.2	0.4	0.2	0.6	0.4	0.2	0.1	0.0	0.1	2.4
SNOWFALL	NORMAL (IN)	30	7.7	6.3	11.6	8.8	1.3	0.*	0.0	0.0	1.9	3.9	10.6	8.9	61.0
	MAXIMUM MONTHLY (IN)	1	3.6	3.0	8.6	0.3	0.2	T	0.0	T	0.0	9.8	4.4	29.4	29.4
	YEAR OF OCCURRENCE		2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	DEC 2006
	MAXIMUM IN 24 HOURS (IN)	1	3.3	1.9	5.0	0.3	0.2	T	0.0	T	0.0	5.3	2.8	17.4	17.4
	YEAR OF OCCURRENCE		2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	DEC 2006
	MAXIMUM SNOW DEPTH (IN)	1	3	2	3	0	T	0	0	0	0	3	3	21	21
	YEAR OF OCCURRENCE		2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	2006	DEC 2006
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.3	2.2	3.3	2.7	0.3	0.0	0.0	0.0	0.5	1.2	3.1	2.8	18.4	

PRECIPITATION (inches) 2006 DENVER (KDEN)

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
2000	0.24	0.23	1.96	0.71	3.09	0.79	1.42	3.06	1.52	0.52	0.61	0.27	14.42
2001	0.78	0.64	1.10	1.20	3.80	1.53	4.76	0.71	1.00	0.08	0.72	0.14	16.46
2002	0.48	0.32	0.53	0.23	0.94	1.45	1.39	0.78	0.58	0.49	0.24	0.05	7.48
2003	0.03	0.47	3.05	2.22	1.91	3.95	0.54	1.24	0.26	0.08	0.05	0.12	13.92
2004	0.23	0.21	0.14	1.76	1.30	2.33	2.51	2.84	1.99	0.86	0.45	0.04	14.66
2005	0.37	0.02	0.59	2.45	0.71	3.99	0.27	1.33	0.07	2.16	0.48	0.35	12.79
2006	0.28	0.15	0.56	0.67	0.94	0.12	1.37	1.13	0.84	1.03	0.34	1.21	8.64
POR= 11 YRS	0.31	0.28	0.86	1.80	2.12	2.07	2.58	1.73	1.15	0.81	0.42	0.29	14.42

WBAN : 03017

AVERAGE TEMPERATURE (°F) 2006 DENVER (KDEN)

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
2000	33.0	39.2	40.4	49.8	59.2	67.0	76.7	74.5	63.6	50.5	28.9	28.3	50.9
2001	30.0	28.3	39.8	49.6	57.1	69.4	76.7	73.5	66.8	51.5	40.9	31.7	51.3
2002	29.3	33.6	33.8	50.0	56.1	71.1	76.3	71.5	63.6	44.0	37.5	33.6	50.0
2003	36.9	27.6	39.9	50.4	57.5	62.1	76.9	73.7	59.3	55.1	36.2	32.5	50.7
2004	31.9	30.4	46.4	47.5	59.3	63.7	70.8	68.2	62.7	50.9	37.2	34.9	50.3
2005	32.5	35.8	39.4	46.4	57.0	66.0	77.7	71.6	67.2	52.0	42.5	30.2	51.5
2006	37.4	30.9	38.4	51.5	60.4	72.8	76.2	72.8	58.9	49.5	40.5	31.7	51.8
POR= 11 YRS	32.1	32.9	39.7	47.0	57.1	66.5	74.8	72.1	63.0	50.4	38.9	31.7	50.5

HEATING DEGREE DAYS (base 65°F) 2006 DENVER (KDEN)

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
1999-00	1	3	194	383	528	962	984	744	754	446	215	61	5275
2000-01	0	5	149	447	1074	1131	1079	1021	775	455	256	46	6438
2001-02	0	4	65	416	717	1026	1098	870	961	448	302	26	5933
2002-03	0	5	118	643	816	966	865	1041	770	430	260	107	6021
2003-04	0	10	192	312	858	1001	1022	998	569	519	192	99	5772
2004-05	17	31	131	431	830	926	999	810	786	552	274	84	5871
2005-06	3	19	54	412	670	1075	848	948	817	398	192	4	5440
2006-	7	8	195	487	727	1028							

WBAN : 03017

COOLING DEGREE DAYS (base 65°F) 2006 DENVER (KDEN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	0	0	0	0	43	127	368	305	115	5	0	0	963
2001	0	0	0	0	18	184	373	274	125	5	0	0	979
2002	0	0	0	7	34	218	355	214	84	0	0	0	912
2003	0	0	0	0	36	28	376	289	29	13	0	0	771
2004	0	0	0	0	23	67	204	138	67	0	0	0	499
2005	0	0	0	0	34	119	405	230	125	14	0	0	927
2006	0	0	0	0	56	247	363	261	20	14	0	0	961

SNOWFALL (inches) 2006 DENVER (KDEN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2005-06 2006-	0.0	T	0.0	9.8	4.4	29.4	3.6	3.0	8.6	0.3	0.2	T	
POR= 1 YRS	0.0	T	0.0	9.8	4.4	29.4	3.6	3.0	8.6	0.3	0.2	T	59.3

WBAN : 03017

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.</p>	<p>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.</p> <p>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.</p> <p>NOTE: 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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2006 DENVER COLORADO (KDEN)

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.

Station Location

DENVER

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *			
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE		HYGROTHERMOMETER		
<u>AIRPORT</u> Denver Int'l Airport	03/01/95	Present	NA	39° 50'	104° 39'	b5379											* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS a. Hourly and summary of the day observations began at the new Denver International Airport 03/01/95. ASOS Commissioned 03/01/95 b. Ground Elevation

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