

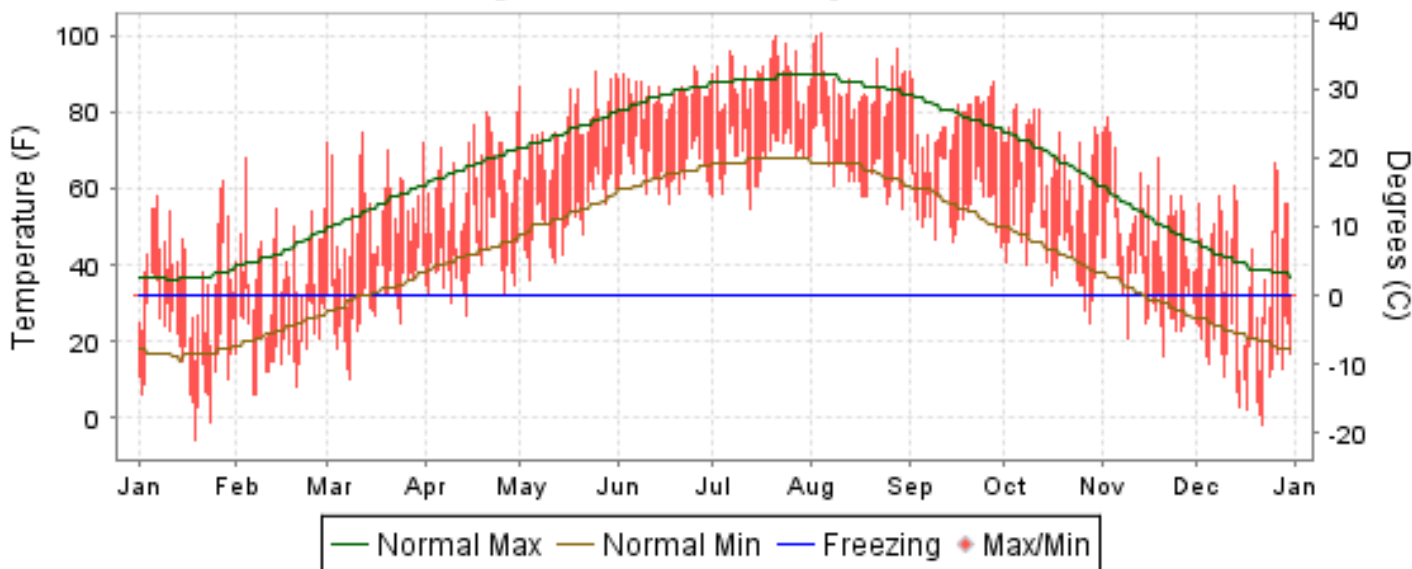


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

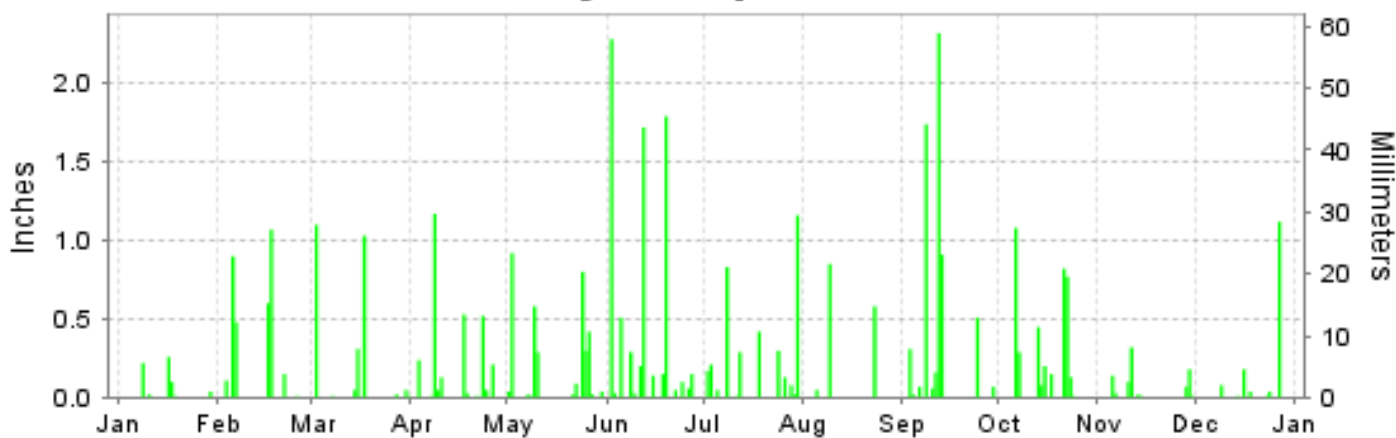
ISSN 0198-2192

TOPEKA, KANSAS (KTOP)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2008

TOPEKA (KTOP)

LATITUDE: 39 ° 4 'N LONGITUDE: -95 ° 37'W ELEVATION (FT): GRND: 884 BARO: 883 TIME ZONE: CENTRAL (UTC -6) WBAN: 13996

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	39.4	39.9	54.0	62.7	75.9	85.1	89.2	87.0	77.8	68.5	54.3	42.0	64.7	
	HIGHEST DAILY MAXIMUM	62	68	75	80	91	92	100	101	91	82	79	67	101	
	DATE OF OCCURRENCE	28	04	12	30+	25	25	21	04	01	05	03	26	AUG 04	
	MEAN DAILY MINIMUM	17.9	20.0	30.4	41.1	53.2	65.2	68.5	65.4	56.6	44.4	33.8	18.1	42.9	
	LOWEST DAILY MINIMUM	-6	6	10	27	36	56	55	55	45	25	16	-2	-6	
	DATE OF OCCURRENCE	19	07+	08	14	04	17	13	30	30	28	21	22	JAN 19	
	AVERAGE DRY BULB	28.7	30.0	42.2	51.9	64.6	75.2	78.9	76.2	67.2	56.5	44.1	30.1	53.8	
	MEAN WET BULB	26.1	26.9	37.2	45.7	57.3	67.7	70.9	68.3	61.2	50.1	39.0	26.1	48.0	
	MEAN DEW POINT	19.5	20.7	29.8	38.6	51.0	63.4	66.8	64.0	57.2	44.3	32.1	18.8	42.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	3	17	9	1	0	0	0	0	32
	MAXIMUM <= 32°	8	6	1	0	0	0	0	0	0	0	0	8	23	
MINIMUM <= 32°	27	27	17	2	0	0	0	0	0	3	14	28	118		
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	1	3		
H/C	HEATING DEGREE DAYS	1118	1011	700	395	99	0	0	0	45	286	626	1077	5357	
	COOLING DEGREE DAYS	0	0	0	7	93	312	438	355	119	25	5	0	1354	
RH	MEAN (PERCENT)	67	71	64	63	64	69	69	69	73	68	65	65	67	
	HOUR 00 LST	71	77	72	71	73	78	78	80	84	78	71	67	75	
	HOUR 06 LST	74	76	77	77	79	84	83	83	87	82	75	72	79	
	HOUR 12 LST	62	62	54	55	55	56	58	54	60	54	55	59	57	
	HOUR 18 LST	60	65	52	51	50	55	58	54	61	59	59	62	57	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	5	1	1	1	1	6	2	6	4	2	2	32	
	THUNDERSTORMS	0	1	1	5	8	11	9	5	5	4	2	1	52	
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.)	29.08	29.08	29.08	29.00	28.90	28.95	29.00	29.03	29.14	29.16	29.11	29.13	29.06	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.05	30.04	29.95	29.83	29.87	29.92	29.96	30.08	30.11	30.08	30.11	30.01	
WINDS	RESULTANT SPEED (MPH)	1.7	2.9	1.8	0.2	0.3	3.6	3.2	2.3	1.0	2.2	2.4	1.5	0.5	
	RES. DIR. (TENS OF DEGS.)	24	35	02	27	11	18	17	11	12	15	27	27	19	
	MEAN SPEED (MPH)	8.4	8.1	8.4	10.3	8.5	7.2	6.4	5.1	5.4	7.0	8.4	9.2	7.7	
	PREVAIL.DIR.(TENS OF DEGS.)	31	02	35	35	10	18	18	09	16	15	17	18	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	31	35	39	33	43	36	31	28	32	30	32	43	
	DIR. (TENS OF DEGS.)	33	33	32	24	30	09	35	30	32	31	32	35	09	
	DATE OF OCCURRENCE	29	25	02	10	10	19	02	23	14	26	14	30	JUN 19	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	40	45	61	44	58	47	44	36	45	46	45	61	
DIR. (TENS OF DEGS.)	32	35	18	23	32	09	34	31	32	29	19	20	23		
DATE OF OCCURRENCE	29	14	02	10	10	19	02	23	14	26	05	13	APR 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.65	3.32	2.58	2.95	3.55	7.50	3.67	1.48	6.17	3.98	0.88	1.48	38.21	
	GREATEST 24-HOUR (IN.)	0.36	1.67	1.10	1.18	0.96	2.31	1.18	0.85	2.96	1.44	0.42	1.12	2.96	
	DATE OF OCCURRENCE	16-17	16-17	02	07-08	01-02	02-03	29-30	09	12-13	21-22	10-11	27	SEP 12-13	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	6	7	8	11	13	14	12	3	10	10	9	7	110	
PRECIPITATION 0.10	3	6	3	6	6	10	8	2	6	8	4	2	64		
PRECIPITATION 1.00	0	1	2	1	0	3	1	0	2	1	0	1	12		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.7	10.5	0.1	T	0.0	0.0	T	0.0	T	T	0.5	5.1	20.9	
	GREATEST 24-HOUR (IN.)	2.4	4.9	0.1	T	0.0	0.0	T	0.0	T	T	0.3	2.9	4.9	
	DATE OF OCCURRENCE	16	06	07	12+		12	02		08	24+	30	16	FEB 06	
	MAXIMUM SNOW DEPTH (IN.)	4	5	0	0	0	0	0	0	0	0	0	2	5	
	DATE OF OCCURRENCE	17	07+										18+	FEB 07+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	3	0	0	0	0	0	0	0	0	0	2	7		

PRECIPITATION (inches) 2008 TOPEKA (KTOP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	1.81	0.63	3.95	2.37	2.25	5.63	5.84	4.05	2.17	4.15	1.80	0.05	34.70
1980	1.34	0.91	4.15	1.03	4.85	0.56	0.87	5.86	1.19	7.24	0.25	3.86	32.11
1981	0.32	0.21	1.61	1.98	5.93	9.40	7.63	3.92	2.03	3.72	3.63	0.22	40.60
1982	1.67	0.59	1.14	1.58	9.39	5.99	5.08	4.53	1.17	1.25	2.26	3.61	38.26
1983	0.69	0.63	4.39	6.29	4.93	6.08	0.59	0.62	2.25	5.19	3.61	1.34	36.61
1984	0.11	1.35	4.57	4.26	3.45	10.17	1.66	1.04	4.24	4.10	0.72	2.36	38.03
1985	0.70	2.02	2.38	3.60	3.79	5.15	2.90	7.97	8.16	5.20	2.02	0.71	44.60
1986	T	1.55	1.35	3.15	7.53	2.51	4.21	5.50	6.21	3.30	0.87	1.20	37.38
1987	1.09	2.71	5.92	2.33	3.89	4.86	2.78	5.90	1.81	1.86	1.94	1.87	36.96
1988	2.04	0.48	0.73	2.93	3.08	3.13	1.74	1.34	1.94	0.26	0.86	0.86	19.39
1989	1.24	0.86	3.11	0.62	4.05	4.76	5.21	6.22	8.65	3.44	T	0.61	38.77
1990	1.22	2.31	3.75	1.01	4.45	5.57	3.01	5.69	0.83	2.71	2.91	0.97	34.43
1991	0.76	0.02	2.98	3.63	7.09	1.49	1.47	1.76	2.15	3.20	2.20	2.44	29.19
1992	0.89	1.18	5.29	3.25	1.75	3.35	6.37	1.24	3.92	1.41	5.27	2.01	35.93
1993	1.11	1.61	2.56	5.43	6.95	2.18	10.98	5.32	7.03	1.37	1.12	0.90	46.56
1994	0.42	0.82	0.19	4.31	0.95	4.63	3.16	7.87	1.46	1.30	2.87	1.52	29.50
1995	1.50	0.71	2.11	3.32	11.82	3.43	5.10	4.29	2.90	0.21	0.66	0.57	36.62
1996	0.76	0.19	1.48	1.57	7.72	7.97	2.65	6.09	3.60	2.79	2.66	0.04	37.52
1997	0.24	2.67	0.26	4.99	3.54	1.36	2.59	4.65	2.15	3.58	2.14	2.41	30.58
1998	0.79	0.77	2.88	2.16	2.08	7.22	9.32	0.88	4.19	5.01	5.64	1.22	42.16
1999	1.17	0.94	0.99	8.69	6.38	6.20	0.59	1.09	4.43	0.87	1.60	1.76	34.71
2000	0.19	2.00	2.62	1.07	2.08	7.25	2.77	0.61	2.97	3.52	1.91	0.35	27.34
2001	1.22	2.90	3.56	4.27	3.85	6.39	2.31	5.95	7.46	3.51	1.13	0.13	42.68
2002	1.51	0.75	0.72	4.64	4.87	4.12	0.81	3.05	1.63	5.42	0.26	0.05	27.83
2003	0.50	1.37	0.86	5.91	3.70	3.70	0.70	6.25	2.91	0.69	0.45	2.36	29.40
2004	0.84	1.68	3.83	1.96	4.46	6.39	7.27	4.91	1.68	3.98	2.44	0.62	40.06
2005	2.50	2.26	0.74	1.34	4.58	9.59	2.08	10.91	7.71	5.00	0.91	1.00	48.62
2006	0.48	0.02	2.15	5.13	3.20	1.18	3.41	9.04	2.47	3.04	0.90	1.70	32.72
2007	0.67	1.48	3.65	3.20	10.25	4.39	1.99	2.79	1.35	6.61	0.10	4.13	40.61
2008	0.65	3.32	2.58	2.95	3.55	7.50	3.67	1.48	6.17	3.98	0.88	1.48	38.21
POR= 61 YRS	0.96	1.18	2.32	3.23	4.51	5.20	4.02	4.05	3.48	2.92	1.76	1.32	34.95

WBAN : 13996

AVERAGE TEMPERATURE (°F) 2008 TOPEKA (KTOP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	11.8	19.2	42.6	51.6	63.1	72.4	77.8	76.9	68.0	57.0	40.0	35.5	51.3
1980	28.6	26.0	40.8	53.7	62.8	76.5	86.4	80.7	70.0	53.9	45.0	32.6	54.8
1981	31.4	35.5	46.1	60.6	60.9	75.5	79.5	73.1	68.0	56.1	47.2	30.1	55.3
1982	21.9	28.5	43.2	50.2	63.7	69.0	78.7	75.5	66.5	55.9	42.0	35.8	52.6
1983	32.5	36.1	44.9	49.4	62.5	73.5	81.1	83.0	72.2	58.7	45.8	14.4	54.5
1984	26.0	40.2	38.1	51.7	62.4	73.9	77.0	78.0	66.5	56.6	45.5	36.8	54.4
1985	19.9	25.6	48.6	58.7	66.5	72.0	79.7	72.8	66.8	56.6	36.7	25.1	52.4
1986	35.8	32.5	49.8	57.7	65.9	77.0	80.4	72.3	71.6	56.6	38.3	34.6	56.0
1987	29.7	40.3	46.7	57.1	70.4	76.2	78.1	75.5	68.2	52.6	47.4	35.9	56.5
1988	28.1	30.8	43.4	53.9	68.8	75.1	76.7	79.5	70.3	52.8	45.2	35.3	55.0
1989	38.0	22.9	44.4	57.9	64.2	71.4	77.6	74.8	62.3	57.1	42.3	21.0	52.8
1990	37.3	36.2	45.5	51.9	60.3	77.2	77.7	76.5	71.6	57.0	49.1	29.6	55.8
1991	25.2	48.2	57.7	69.4	77.1	80.2	77.3	69.3	58.6	37.9	37.4		
1992	37.2	41.5	47.8	54.7	62.5	69.1	75.9	71.7	67.9	56.5	39.1	32.6	54.7
1993	26.4	29.9	40.8	50.2	63.1	72.9	78.2	77.8	63.4	54.0	39.3	34.8	52.6
1994	26.1	29.9	47.0	54.1	64.5	76.4	76.1	75.9	67.4	58.3	45.8	36.0	54.8
1995	29.3	37.0	45.1	52.0	59.3	72.5	80.2	80.9	65.8	57.2	40.1	30.6	54.2
1996	24.5	35.0	38.5	54.0	65.7	75.3	76.4	74.6	64.6	56.2	37.6	30.1	52.7
1997	26.2	35.0	46.2	49.9	60.5	73.5	78.5	75.5	69.7	58.1	40.3	32.8	53.9
1998	32.4	39.8	38.3	53.0	70.3	74.0	79.2	78.9	74.0	59.1	48.7	36.0	57.0
1999	28.6	42.9	43.3	55.1	64.8	73.4	82.4	77.6	65.6	56.9	51.3	36.2	56.5
2000	32.3	41.9	47.5	55.2	68.1	72.1	79.2	85.4	72.3	60.5	37.3	20.7	56.0
2001	30.3	30.5	40.8	60.6	67.6	73.4	82.9	79.0	66.5	56.7	51.1	37.8	56.4
2002	34.6	37.5	40.7	57.3	62.6	76.3	81.6	79.0	72.9	50.6	42.1	36.1	55.9
2003	28.8	31.3	44.0	57.9	64.2	72.1	82.2	81.0	64.9	57.9	43.7	36.2	55.4
2004	27.7	30.4	48.1	56.4	67.7	71.4	75.6	72.8	70.2	58.3	45.8	35.3	55.0
2005	29.2	38.3	44.7	57.0	65.0	76.2	78.6	77.8	71.9	57.3	46.4	29.3	56.0
2006	41.0	34.4	46.1	60.6	66.1	75.7	81.8	80.0	65.9	55.0	46.1	39.2	57.7
2007	29.4	29.9	53.8	52.6	68.7	74.2	79.0	83.5	71.4	60.0	44.4	30.7	56.5
2008	28.7	30.0	42.2	51.9	64.6	75.2	78.9	76.2	67.2	56.5	44.1	30.1	53.8
POR= 61 YRS	27.9	33.4	43.1	54.8	64.9	73.9	78.7	77.1	68.3	56.9	43.1	32.1	54.5

HEATING DEGREE DAYS (base 65°F) 2008 TOPEKA (KTOP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0	4	45	267	741	908	1123	1123	744	344	129	3	5431
1980-81	0	0	65	344	591	1001	1035	822	579	175	176	0	4788
1981-82	0	2	46	283	529	1076	1329	1014	664	449	76	32	5500
1982-83	0	0	93	303	683	896	1002	804	615	466	120	13	4995
1983-84	0	0	56	223	570	1565	1204	713	830	405	137	0	5703
1984-85	0	0	145	276	578	871	1389	1098	501	228	35	8	5129
1985-86	0	0	127	259	844	1228	899	906	491	252	49	0	5055
1986-87	0	9	27	263	792	934	1084	688	560	292	16	0	4665
1987-88	0	3	24	376	531	893	1136	988	662	331	16	5	4965
1988-89	2	4	24	383	587	912	832	1174	641	296	125	5	4985
1989-90	0	2	155	276	672	1360	851	801	600	413	176	4	5310
1990-91	1	1	39	276	477	1093	1227		523	233	48	0	
1991-92	0	0	95	262	808	849	855	673	528	326	132	7	4535
1992-93	0	2	68	278	770	995	1189	979	744	440	101	22	5588
1993-94	0	1	108	356	763	930	1202	974	553	347	94	0	5328
1994-95	0	1	64	237	568	892	1097	774	613	382	193	1	4822
1995-96	0	0	107	246	740	1059	1250	867	814	347	93	6	5529
1996-97	0	0	98	294	813	1076	1193	833	577	450	173	0	5507
1997-98	1	0	21	286	737	994	1000	699	830	361	27	27	4983
1998-99	0	0	9	203	485	893	1122	613	667	295	58	12	4357
1999-00	0	0	92	261	408	886	1006	666	536	295	51	10	4211
2000-01	0	0	61	174	824	1368	1069	958	742	182	53	9	5440
2001-02	0	0	58	262	415	837	934	766	745	274	141	0	4432
2002-03	0	0	15	455	677	888	1115	937	643	256	78	21	5085
2003-04	0	0	90	229	629	885	1149	993	526	283	87	2	4873
2004-05	0	9	12	222	571	911	1105	740	626	269	107	0	4572
2005-06	0	0	31	285	550	1103	736	852	578	175	105	0	4415
2006-07	0	0	50	358	561	794	1097	977	364	388	22	0	4611
2007-08	0	0	28	213	618	1057	1118	1011	700	395	99	0	5239
2008-	0	0	45	286	626	1077							

WBAN : 13996

COOLING DEGREE DAYS (base 65°F) 2008 TOPEKA (KTOP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	4	7	76	237	401	379	144	27	0	0	1275
1980	0	0	0	9	69	356	670	496	220	9	0	0	1829
1981	0	0	0	53	58	321	457	260	143	17	0	0	1309
1982	0	0	0	11	43	157	432	334	147	28	0	0	1152
1983	0	0	0	7	50	274	509	564	278	33	2	0	1717
1984	0	0	0	14	67	274	379	407	196	20	0	3	1360
1985	0	0	0	46	88	225	461	249	188	6	0	0	1263
1986	0	0	26	42	85	363	488	243	233	9	0	0	1489
1987	0	0	0	61	192	344	410	335	126	0	9	0	1477
1988	0	0	0	4	140	314	375	458	191	11	0	0	1493
1989	0	0	11	90	107	206	399	311	81	41	0	0	1246
1990	0	0	1	26	39	377	403	366	241	37	7	0	1497
1991	0	0	11	22	192	371	478	387	229	69	0	0	1759
1992	0	0	0	25	61	134	344	217	162	20	0	0	963
1993	0	0	0	0	48	269	417	405	64	22	0	0	1225
1994	0	0	0	26	86	348	351	345	140	36	0	0	1332
1995	0	0	4	1	22	237	481	502	140	16	0	0	1403
1996	0	0	0	25	125	321	358	302	92	28	0	0	1251
1997	0	0	0	1	38	262	424	330	166	81	0	0	1302
1998	0	0	10	9	196	304	445	440	287	26	1	0	1718
1999	0	0	0	5	57	269	545	396	120	20	1	0	1413
2000	0	0	2	6	153	231	446	640	284	44	0	0	1806
2001	0	0	0	59	140	267	563	441	109	12	5	0	1596
2002	0	0	0	50	75	347	519	437	261	17	0	0	1706
2003	0	0	0	52	60	240	541	502	92	12	0	0	1499
2004	0	0	6	29	175	198	337	259	176	24	0	0	1204
2005	0	0	1	34	114	344	432	405	243	54	1	0	1628
2006	0	0	0	50	144	327	526	471	77	54	0	0	1649
2007	0	0	24	22	142	284	442	581	228	63	6	0	1792
2008	0	0	0	7	93	312	438	355	119	25	5	0	1354

SNOWFALL (inches) 2008 TOPEKA (KTOP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	0.0	0.0	T	T	3.5	11.4	3.4	0.0	0.0	0.0	18.3
1980-81	0.0	0.0	0.0	T	0.0	3.8	2.6	2.5	0.0	0.0	0.0	0.0	8.9
1981-82	0.0	0.0	0.0	0.0	T	1.4	3.2	8.0	0.3	0.5	0.0	0.0	13.4
1982-83	0.0	0.0	0.0	0.0	1.1	5.0	6.1	10.1	0.6	4.5	0.0	0.0	27.4
1983-84	0.0	0.0	0.0	0.0	4.1	18.8	2.6	T	4.2	0.0	0.0	0.0	29.7
1984-85	0.0	0.0	0.0	0.0	T	9.8	18.2	7.9	0.5	0.0	0.0	0.0	36.4
1985-86	0.0	0.0	0.0	0.0	3.3	5.8	T	1.5	T	0.0	0.0	0.0	10.6
1986-87	0.0	0.0	0.0	T	0.7	1.7	15.1	2.3	0.5	0.0	0.0	0.0	20.3
1987-88	0.0	0.0	0.0	0.0	0.9	9.6	0.6	6.0	4.7	0.0	0.0	0.0	21.8
1988-89	0.0	0.0	0.0	0.0	0.7	0.8	T	9.0	1.6	0.0	T	T	12.1
1989-90	0.0	0.0	0.0	0.0	T	9.5	1.0	0.1	7.6	0.0	0.0	0.0	18.2
1990-91	0.0	0.0	0.0	0.0	0.0	2.9	9.6		T	T	T	0.0	
1991-92	0.0	0.0	0.0	T	6.2	0.1	T	T	0.9	T	0.0	T	7.2
1992-93	T	0.0	0.0	T	4.5	0.9	23.0	14.2	0.6	T		T	
1993-94	0.0	0.0	0.0	T	T	3.3	2.0	6.0	1.9	1.4	0.0	0.0	14.6
1994-95	0.0	T	0.0	0.0	T	0.8	2.0	0.1	5.0			0.0	
1995-96	0.0	0.0	0.0	0.0	0.7	5.5	8.3	T	T	T	0.0	T	14.5
1996-97	0.0	0.0	0.0	8.0	1.1	0.8	3.9	5.8	T	1.6	T	0.0	21.2
1997-98	0.0	0.0	0.0	T	T	8.2	2.0	T	4.4	T	0.0	T	14.6
1998-99	0.0	0.0	0.0	0.0	0.0	0.5	4.0	2.0	1.8	T	T	0.0	8.3
1999-00	0.0	0.0	0.0	0.0	0.0	7.6	3.7	0.2	T	0.0	0.0	0.0	11.5
2000-01	0.0	0.0	0.0	0.0	T	8.3	1.2	8.3	1.3	T	T	0.0	19.1
2001-02	0.0	0.0	0.0	0.0	0.0	T	6.2	0.4	2.8	0.0	T	0.0	9.4
2002-03	0.0	0.0	T	T	T	0.4	5.4	6.4	0.5	T	0.0	0.0	12.7
2003-04	0.0	0.0	0.0	0.0	0.0	3.8	2.0	13.3	0.0	0.0	0.0	0.0	19.1
2004-05	0.0	0.0	0.0	0.0	4.5	0.0	3.5	3.2	T	0.0	0.0	T	11.2
2005-06	0.0	0.0	0.0	0.0	0.5	10.8	0.5	0.1	0.6	T	T	0.0	12.5
2006-07	0.0	0.0	0.0	0.0	0.4	0.1	4.9	4.2	T	T	0.0	0.0	9.6
2007-08	0.0	0.0	0.0	0.0	0.8	16.5	4.7	10.5	0.1	T	0.0	0.0	32.6
2008-	T	0.0	T	T	0.5	5.1							
POR= 61 YRS	T	T	T	0.1	1.1	4.8	5.5	4.5	3.1	0.5	T	T	19.6

WBAN : 13996

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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2008 TOPEKA KANSAS (KTOP)

Topeka, is located near the geographical center of the United States, and the middle of the temperate zone. The city straddles the Kansas River about 60 miles above its junction with the Missouri River. The Kansas River flows in an easterly direction through northeastern Kansas. Near Topeka, the river valley ranges from 2 to 4 miles wide, and is bordered on both sides by rolling prairie uplands of some 200 to 300 feet. The city is built on both banks of the Kansas River and along two tributaries, Soldier Creek in north Topeka and Shunganunga Creek in the south and east part of town. Flooding is always a threat following periods of heavy rains but protective construction has reduced the problem.

Seventy percent of the annual precipitation normally falls during the six crop-growing months, April through September. The rains of this period are usually of short duration, predominantly of the thunderstorm type. They occur more frequently during the nighttime and early morning hours than at other times of the day. Excessive precipitation rates may occur with warm-season thunderstorms. Rainfall accumulations over 8 inches in 24 hours have occurred in Topeka. Tornadoes have occurred in the area on several occasions and caused severe damage and numerous injuries.

Individual summers show wide departures from average conditions. Hottest summers may produce temperatures of 100 degrees or higher on more than 50 days. On the other hand, 25 percent of the summers pass with two or fewer 100 degree days. Similarly, precipitation has shown a wide range for June, July, and August, varying from under 3 inches to more than 27 inches during the 3 months. Summers are hot with low relative humidity and persistent southerly winds. Oppressively warm periods with high relative humidity are usually of short duration.

Winter temperatures average about 45 degrees cooler than summer. Cold spells are seldom prolonged. Only on rare occasions do daytime temperatures fail to rise above freezing. Winter precipitation is often in the form of snow, sleet, or glaze, but storms of such severity to prevent normal movement of traffic or to interfere with scheduled activity are not common.

In the transitional spring and fall seasons, the numerous days of fair weather are interspersed with short intervals of stormy weather. Strong, blustery winds are quite common in late winter and spring. Autumn is characteristically a season of warm days, cool nights, and infrequent precipitation, with cold air invasions gradually increasing in intensity as the season progresses.

Nearly all crops of the temperate zone can be produced in the vicinity of Topeka. Wheat and other small grains, clover, soybeans, fruit, and berries do well, and the area supports an extensive dairy industry.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 14 and the average last occurrence in the spring is April 21.

Station Location

TOPEKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS
				NORTH	WEST	GROUND TEMPERATURE SITE	WIND INSTRUMENT	GROUND				8 INCH RAIN GAUGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *		
								EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE				WEIGHING RAIN GAUGE	
*NOTES:																
<u>AIRPORT</u>																
Tower atop Hangar #1 Municipal Airport	2/18/44	1/30/47		39° 04'	95° 38'	879	52	43	43					a3	6-hourly observations begun 8/15/46. a. Added 7/1/46.	
Ground Floor Hangar #1 Municipal Airport	1/30/47	8/03/56		39° 04'	95° 38'	879	*72	4	4		4	3			*Wind instrument elevations: 58 feet 1/30/47-11/20/50. 73 feet 11/20/50-11/16/51. 58 feet 11/16/51-6/25/54.	
Weather Bureau Building Municipal Airport Philip Billard Field	8/03/56	4/16/76	1200 ft. SW	39° 04'	95° 38'	c877	d20	5	5	4	4	4	b4		b. Commissioned 2600 feet E of thermometer site 8/20/64. c. 877 feet to 8/20/64. Published as 876 feet from 8/20/64 until new survey in 1969. d. 72 feet to 8/10/64.	
Weather Service Forecast Office Municipal Airport Philip Billard Field	4/16/76	12/1/92	2200 ft. N	39° 04'	95° 38'	877 g884	e20	5	5	9	4	4	e4 f4	NA	e. Same site as prior to 4/16/76. f. Type change 7/22/85. g. Changed 03/29/95	
Municipal (Philip Billard) AP	12/01/92	Present	NA	39° 04'	95° 38'	h880								S	ASOS Commissioned 12/01/92 h. Ground elevation.	

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* NOTES: For earlier station history see previous edition.