

1999

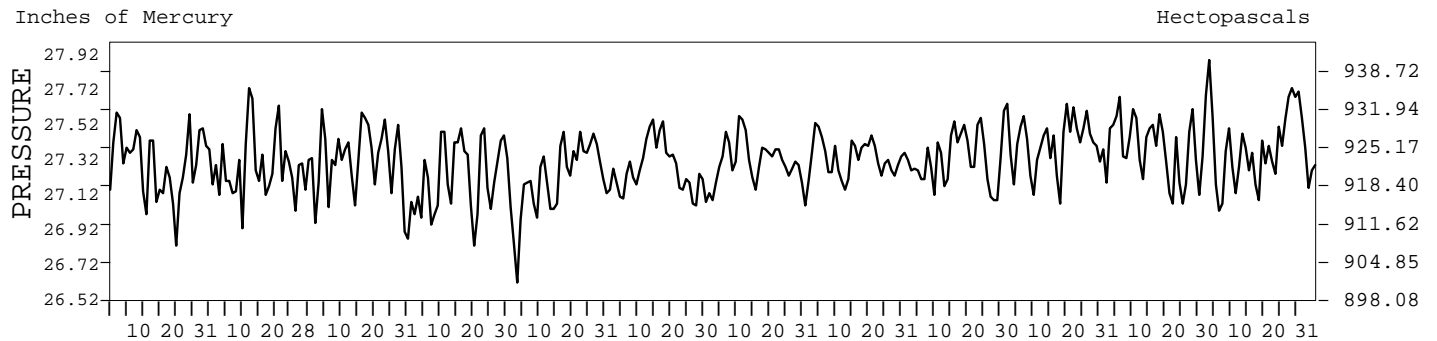
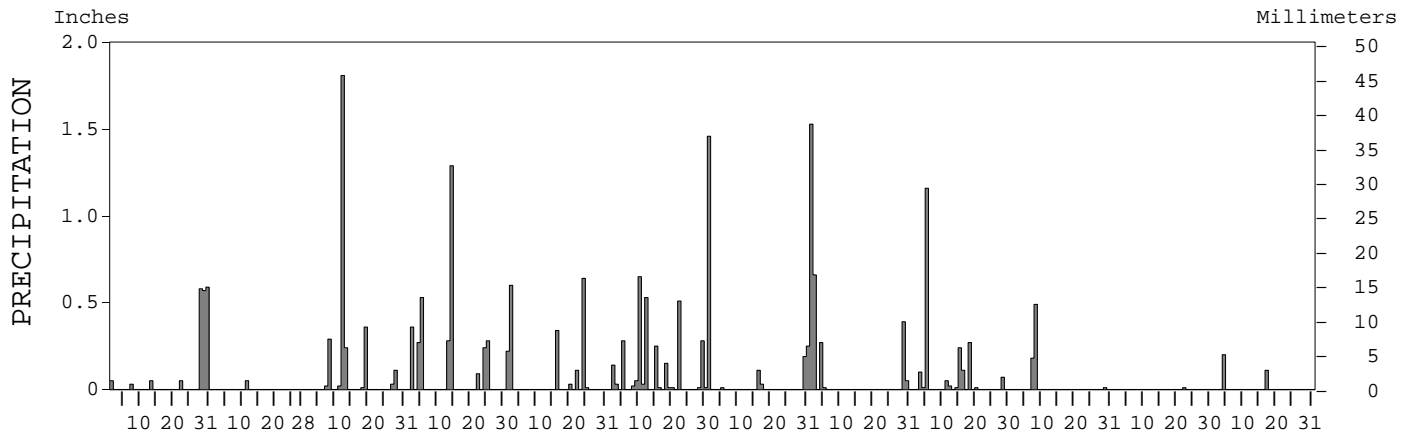
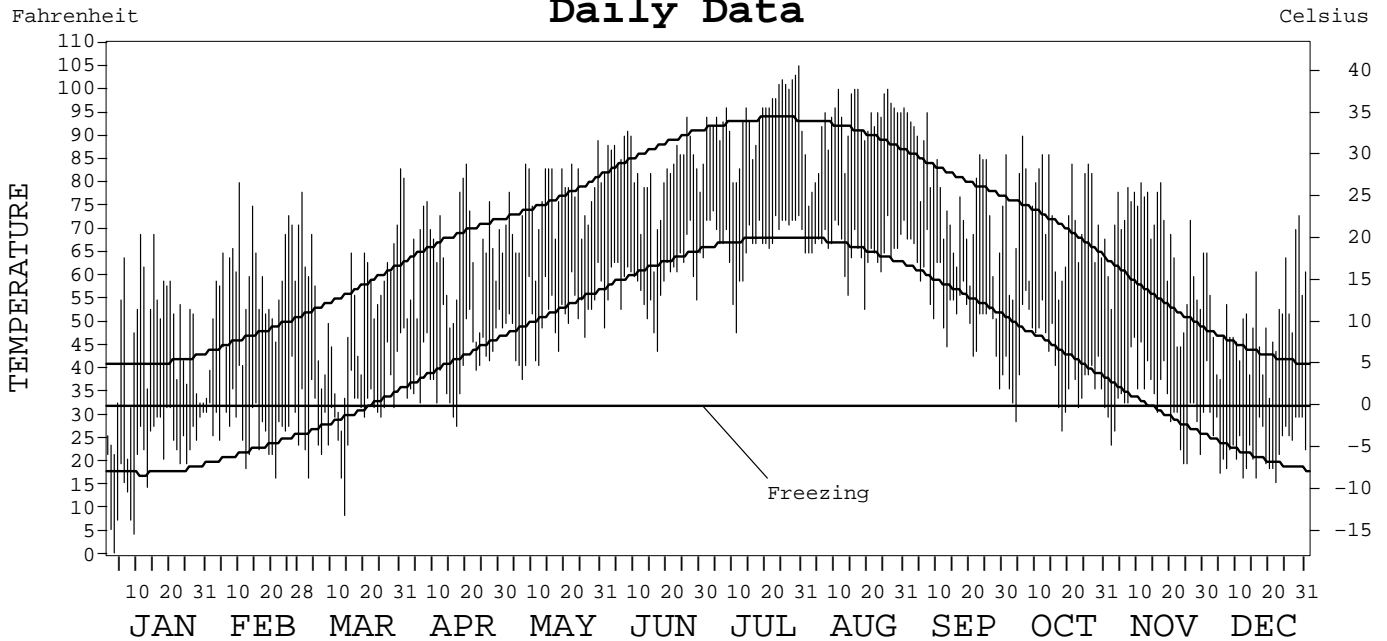
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-215X

DODGE CITY,
KANSAS (DDC)

Daily Data



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

METEOROLOGICAL DATA FOR 1999

DODGE CITY, KS (DDC)

LATITUDE: 37° 46' 22" N LONGITUDE: 99° 58' 11" W ELEVATION (FT): GRND: 2588 BARO: 2588 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13985

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	45.5	59.1	53.8	65.1	75.7	82.6	93.7	92.1	76.7	72.3	66.8	50.5	69.5	
	HIGHEST DAILY MAXIMUM	69	80	83	84	89	94	105	100	95	90	80	73	105	
	DATE OF OCCURRENCE	15+	10	31	20	30	26	30	26+	07+	06	17+	29	JUL 30	
	MEAN DAILY MINIMUM	21.6	28.8	31.0	41.1	50.9	58.9	67.5	65.7	54.3	40.9	33.0	24.2	43.2	
	LOWEST DAILY MINIMUM	1	17	9	28	38	44	48	53	36	27	20	16	1	
	DATE OF OCCURRENCE	03	21	14	17	07	17	11	19	29	18	25+	22	JAN 03	
	AVERAGE DRY BULB	33.6	44.0	42.4	53.1	63.3	70.8	80.6	78.9	65.5	56.6	49.9	37.4	56.3	
	MEAN WET BULB	28.6	36.2	37.1	46.1	55.8	63.9	68.7	67.6	57.7	46.8	40.2	31.7	48.4	
	MEAN DEW POINT	21.6	25.6	30.7	39.7	49.8	60.2	62.6	61.8	52.6	37.8	29.2	23.6	41.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	5	24	23	5	1	0	0	58	
	MAXIMUM ≤ 32°	5	0	2	0	0	0	0	0	0	0	0	0	7	
MINIMUM ≤ 32°	31	22	19	2	0	0	0	0	0	6	13	30	123		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	965	582	692	352	100	21	1	0	103	272	447	848	4383	
	COOLING DEGREE DAYS	0	0	1	3	57	203	491	439	127	19	0	0	1340	
RH	MEAN (PERCENT)	67	55	69	67	65	74	58	61	69	56	52	63	63	
	HOUR 00 LST	73	62	77	77	77	86	69	71	78	67	62	71	72	
	HOUR 06 LST	79	69	81	82	83	90	80	83	85	77	72	75	80	
	HOUR 12 LST	59	43	60	55	51	59	43	49	55	39	34	49	50	
	HOUR 18 LST	61	41	57	52	48	57	40	41	55	43	41	58	50	
S	PERCENT POSSIBLE SUNSHINE	52	69	53	61	72	59	85	83	55	82	95	76	70	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	4	3	6	2	4	0	2	2	0	2	3	35	
	THUNDERSTORMS	0	1	1	7	9	16	7	3	8	0	0	0	52	
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.)	27.30	27.28	27.32	27.21	27.21	27.27	27.30	27.33	27.34	27.41	27.41	27.36	27.31	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.00	30.05	29.89	29.86	29.89	29.91	29.95	29.99	30.09	30.12	30.10	29.99	
WINDS	RESULTANT SPEED (MPH)	3.1	3.6	2.7	2.2	4.5	6.0	7.0	1.8	3.4	1.1	3.3	4.4	1.6	
	RES. DIR. (TENS OF DEGS.)	33	25	13	35	17	14	16	16	15	20	24	29	18	
	MEAN SPEED (MPH)	12.1	13.9	14.0	14.7	13.4	13.2	13.5	11.6	12.4	12.3	11.3	12.8	12.9	
	PREVAIL. DIR. (TENS OF DEGS.)	02	19	18	31	18	17	17	17	17	20	21	35	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	39	37	49	45	45	41	30	38	45	44	44	49	
	DIR. (TENS OF DEGS.)	21	33	18	36	29	01	26	17	04	03	02	35	36	
	DATE OF OCCURRENCE	18+	11	27+	14	04	28	30	31	08	02	01	14	APR 14	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	43	55	44	61	52	56	48	38	45	51	49	55	61	
DIR. (TENS OF DEGS.)	03	34	32	34	29	02	27	28	02	03	02	34	34		
DATE OF OCCURRENCE	06	11	08	14	04	28	30+	29	12	02	01	14	APR 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.92	0.05	2.89	3.34	1.95	2.97	2.05	2.91	2.05	0.68	0.01	0.31	21.13	
	GREATEST 24-HOUR (IN.)	0.95	0.05	2.01	1.31	0.82	0.65	1.46	2.05	1.16	0.66	0.01	0.20	2.05	
	DATE OF OCCURRENCE	28-29	11	12-13	13-14	01-02	10	01	01-02	05	07-08	22	04	AUG 01-02	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	1	9	8	7	17	6	6	11	3	1	2	78	
PRECIPITATION ≥ 0.10	3	0	5	7	5	8	4	4	5	2	0	2	45		
PRECIPITATION ≥ 1.00	0	0	1	1	0	0	1	1	1	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	9.1	1.0	19.0	T	0.0	T	0.0	0.0	0.0	0.0	T	2.5	31.6	
	GREATEST 24-HOUR (IN.)	7.5	1.0	15.1	T	0.0	T	0.0	0.0	0.0	0.0	T	2.5	15.1	
	DATE OF OCCURRENCE	28-29	11	12-13	15+	0	29	0	0	0	0	23	04	MAR 12-13	
	MAXIMUM SNOW DEPTH (IN.)	6	3	14	0	0	0	0	0	0	0	0	2	14	
	DATE OF OCCURRENCE	30+	01	13									05	MAR 13	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	1	4	0	0	0	0	0	0	0	0	1	8		

NORMALS, MEANS, AND EXTREMES

DODGE CITY, KS (DDC)

LATITUDE: 37° 46' 22" N LONGITUDE: 99° 58' 11" W ELEVATION (FT): GRND: 2588 BARO: 2588 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13985

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.5	47.3	56.6	68.0	76.3	87.0	93.1	90.7	81.3	70.7	55.2	43.8	67.6
	MEAN DAILY MAXIMUM	56	41.9	47.6	55.8	67.2	76.1	86.7	92.2	90.4	81.7	70.6	54.7	44.5	67.5
	HIGHEST DAILY MAXIMUM	56	80	85	93	100	105	110	109	107	106	96	91	86	110
	YEAR OF OCCURRENCE		1989	1972	1989	1989	1996	1998	1986	1983	1947	1968	1980	1955	JUN 1998
	MEAN OF EXTREME MAXS.	51	66.7	72.4	81.7	87.7	93.3	100.5	102.9	101.6	96.7	89.9	75.8	68.0	86.4
	NORMAL DAILY MINIMUM	30	18.1	22.7	30.4	41.4	52.0	61.8	67.5	65.7	56.7	44.3	31.1	21.2	42.7
	MEAN DAILY MINIMUM	56	18.7	23.3	29.7	41.0	51.7	61.6	67.0	65.6	56.5	44.3	30.5	21.9	42.6
	LOWEST DAILY MINIMUM	56	-13	-15	-15	14	26	41	46	47	29	14	0	-21	-21
	YEAR OF OCCURRENCE		1984	1951	1948	1997	1967	1954	1990	1950	1985	1993	1958	1989	DEC 1989
	MEAN OF EXTREME MINS.	51	-1.7	3.9	10.3	24.8	37.2	49.3	57.3	55.3	40.4	28.4	13.5	3.7	26.9
	NORMAL DRY BULB	30	29.8	35.0	43.5	54.7	64.2	74.4	80.3	78.2	69.0	57.5	43.2	32.5	55.2
	MEAN DRY BULB	56	30.4	35.5	42.6	54.1	64.0	74.2	79.6	77.9	69.0	57.5	42.7	33.3	55.1
	MEAN WET BULB	54	25.5	29.8	35.7	45.2	55.5	63.4	66.8	65.6	58.5	47.9	35.9	28.2	46.5
	MEAN DEW POINT	54	18.3	22.4	27.1	36.8	49.3	57.6	60.6	59.9	51.9	39.9	28.6	21.3	39.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.1	0.6	3.0	12.6	22.1	18.8	7.6	1.5	*	0.0	66.3	
MAXIMUM ≤ 32°	30	8.5	5.4	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.7	6.6	24.3	
MINIMUM ≤ 32°	30	29.2	23.1	18.1	4.8	0.2	0.0	0.0	0.0	0.1	2.6	17.2	28.1	123.4	
MINIMUM ≤ 0°	30	2.8	1.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.3	
H/C	NORMAL HEATING DEG. DAYS	30	1091	840	667	323	119	7	0	0	39	253	654	1008	5001
	NORMAL COOLING DEG. DAYS	30	0	0	0	14	94	289	474	414	159	21	0	0	1465
RH	NORMAL (PERCENT)	30	66	65	60	58	62	60	55	58	62	58	64	67	61
	HOUR 00 LST	30	72	71	68	67	72	70	64	67	71	66	72	72	69
	HOUR 06 LST	30	76	76	76	75	80	79	76	78	80	74	77	76	77
	HOUR 12 LST	30	57	55	50	46	51	48	43	46	50	46	52	57	50
	HOUR 18 LST	30	58	52	45	42	47	44	39	42	46	46	56	61	48
S	PERCENT POSSIBLE SUNSHINE	56	67	65	65	67	68	76	80	78	75	74	68	66	71
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	56	3.1	3.3	3.1	1.9	1.7	0.9	0.6	1.1	1.6	2.2	2.3	3.0	24.8
	THUNDERSTORMS	56	0.2	0.4	1.4	3.8	8.1	10.0	10.4	8.7	4.5	2.1	0.5	0.2	50.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1	4.8	4.0	4.8	5.1	3.6	2.0	2.4	2.4	4.0	3.2	4.0	3.2	3.6
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.0	4.0	5.3	5.3	3.6	1.6	2.4	2.4	3.2	4.0	4.0	3.2	3.6
	MEAN NO. DAYS WITH:														
CLEAR	3	6.3	5.0	9.7	9.0	12.3	14.0	16.0	16.5	9.0	9.5	8.0	13.0	128.3	
PARTLY CLOUDY	3	3.0	6.5	4.7	4.0	4.0	5.3	4.5	5.0	1.0	5.5	4.5	3.0	51.0	
CLOUDY	3	9.0	6.0	4.7	7.5	4.7	2.7	3.0	3.0	2.5	4.5	4.5	5.0	57.1	
PR	MEAN STATION PRESSURE (IN)	26	27.36	27.33	27.23	27.24	27.23	27.26	27.32	27.33	27.34	27.34	27.32	27.35	27.30
	MEAN SEA-LEVEL PRES. (IN)	54	30.13	30.07	29.96	29.90	29.89	29.86	29.92	29.94	29.97	30.02	30.05	30.10	29.98
WINDS	MEAN SPEED (MPH)	44	13.5	14.0	15.5	15.6	14.5	14.0	13.0	12.5	13.4	13.5	13.7	13.5	13.9
	PREVAIL. DIR (TENS OF DEGS)	28	34	36	18	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	56	45	40	51	52	60	56	55	51	48	44	44	60
	DIR. (TENS OF DEGS)		34	01	20	27	03	29	36	26	14	10	02	35	29
	YEAR OF OCCURRENCE		1996	1994	1998	1998	1998	1996	1996	1993	1996	1997	1999	1999	JUN 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	7	66	57	52	61	59	70	79	75	59	56	53	55	79	
DIR. (TENS OF DEGS)		34	35	21	34	02	28	25	25	14	10	17	34	25	
YEAR OF OCCURRENCE		1996	1994	1998	1996	1998	1996	1996	1993	1996	1997	1996	1999	JUL 1996	
PRECIPITATION	NORMAL (IN)	30	0.49	0.62	1.56	2.05	3.03	3.10	3.24	2.73	1.91	1.28	0.83	0.65	21.49
	MAXIMUM MONTHLY (IN)	56	1.96	2.87	8.84	6.26	8.69	7.95	9.13	7.44	6.80	4.94	3.75	2.59	9.13
	YEAR OF OCCURRENCE		1949	1993	1973	1976	1951	1951	1962	1977	1973	1997	1971	1997	JUL 1962
	MINIMUM MONTHLY (IN)	56	0.00	T	0.02	0.07	0.43	0.12	0.17	0.68	0.01	T	T	T	0.00
	YEAR OF OCCURRENCE		1986	1991	1997	1963	1985	1952	1946	1970	1980	1952	1989	1957	JAN 1986
	MAXIMUM IN 24 HOURS (IN)	56	1.35	1.82	2.54	4.64	5.57	3.28	4.17	3.23	3.27	4.55	2.42	2.00	5.57
	YEAR OF OCCURRENCE		1990	1993	1973	1978	1978	1944	1944	1986	1959	1968	1996	1984	MAY 1978
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.8	4.8	7.0	6.5	9.7	8.5	8.1	8.0	6.7	4.9	4.3	5.1	78.4	
PRECIPITATION ≥ 1.00	30	*	*	0.3	0.4	0.6	0.9	0.8	0.6	0.4	0.3	0.2	0.1	4.6	
SNOWFALL	NORMAL (IN)	30	4.4	4.0	4.3	0.9	0.*	0.0	0.0	0.0	T	0.2	1.7	3.6	19.1
	MAXIMUM MONTHLY (IN)	56	15.7	19.6	24.0	9.0	0.9	T	T	T	T	4.5	16.7	14.9	24.0
	YEAR OF OCCURRENCE		1990	1993	1970	1983	1978	1990	1992	1992	1985	1991	1992	1997	MAR 1970
	MAXIMUM IN 24 HOURS (IN)	56	11.8	12.0	15.1	7.4	0.9	T	T	T	T	4.3	6.7	11.6	15.1
	YEAR OF OCCURRENCE		1990	1993	1999	1983	1978	1990	1992	1992	1985	1996	1948	1997	MAR 1999
	MAXIMUM SNOW DEPTH (IN)	54	12	9	14	6	T	0	0	0	0	3	8	12	14
	YEAR OF OCCURRENCE		1988	1978	1957	1983	1979					1976	1948	1997	MAR 1957
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.4	1.2	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.0	5.9	

PRECIPITATION (inches) 1999 DODGE CITY, KS (DDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.07	0.01	2.62	1.91	0.81	1.18	1.72	0.68	2.64	0.52	0.06	0.04	12.26
1971	1.10	2.04	0.09	1.09	2.81	3.93	4.49	0.99	1.46	2.87	3.75	0.66	25.28
1972	0.17	0.07	0.27	2.06	5.44	5.94	7.26	3.97	2.48	0.71	2.28	0.35	31.00
1973	0.62	0.35	8.84	3.24	0.73	1.06	3.88	2.44	6.80	1.17	1.34	1.95	32.42
1974	0.30	0.02	1.42	0.46	2.91	4.09	0.79	6.87	0.19	1.93	0.51	0.34	19.83
1975	0.21	0.55	0.60	3.26	3.94	4.49	2.17	1.33	0.15	0.01	1.83	0.29	18.83
1976	0.03	0.58	0.74	6.26	2.94	0.52	0.51	1.20	3.03	0.79	0.17	0.03	16.80
1977	0.45	0.14	0.53	3.32	3.60	1.09	2.59	7.44	0.87	0.94	0.38	0.76	22.11
1978	0.54	1.35	0.97	4.74	4.55	3.45	0.24	0.95	2.26	0.04	1.25	0.42	20.76
1979	1.54	0.09	3.86	1.96	3.48	0.89	5.20	1.49	0.13	3.30	0.97	0.71	23.62
1980	1.06	1.46	2.87	1.89	3.60	3.85	2.00	2.06	0.01	0.23	0.01	0.76	19.80
1981	0.31	0.04	2.27	0.70	5.73	1.39	5.30	2.26	3.07	1.40	2.26	0.39	25.12
1982	0.18	1.30	0.81	0.66	2.74	3.65	5.54	1.01	1.31	0.84	0.44	1.04	19.52
1983	0.56	1.29	2.80	2.88	3.52	5.05	0.57	1.44	2.64	1.87	1.15	0.62	24.39
1984	0.68	0.20	2.73	4.38	1.38	1.89	0.63	1.35	0.35	2.87	0.10	2.41	18.97
1985	0.92	1.28	1.08	2.18	0.43	2.78	3.42	2.91	3.63	2.69	1.05	0.11	22.48
1986	0.00	0.44	0.18	2.19	1.31	4.70	2.12	5.60	1.22	0.93	0.63	0.96	20.28
1987	0.58	1.38	4.34	0.92	2.54	3.79	4.06	2.79	1.53	0.49	0.52	0.72	23.66
1988	0.89	0.13	0.53	3.08	3.56	0.15	1.95	1.11	2.80	0.56	0.10	0.10	14.96
1989	0.25	0.27	0.85	0.41	3.40	6.59	3.42	2.80	2.36	0.05	T	0.55	20.95
1990	1.60	1.17	1.64	3.64	4.91	1.01	3.07	1.19	1.45	0.18	0.42	0.60	20.88
1991	0.31	T	1.05	1.12	2.02	0.91	0.78	1.43	0.20	1.28	1.52	2.10	12.72
1992	0.39	0.35	1.43	0.21	3.06	6.98	2.67	2.90	0.48	0.71	1.58	0.90	21.66
1993	0.81	2.87	2.01	2.89	2.13	3.22	6.33	3.08	0.82	1.01	0.63	1.02	26.82
1994	0.41	0.45	0.06	1.90	0.89	1.88	4.74	3.48	0.90	1.72	1.73	0.94	19.10
1995	0.64	0.27	1.24	2.98	5.16	5.06	1.35	0.77	1.30	0.08	0.04	0.57	19.46
1996	0.41	0.07	1.46	0.54	3.70	3.31	6.09	7.34	5.08	1.40	3.03	T	32.43
1997	0.04	1.18	T	2.02	3.04	5.14	2.91	5.45	2.08	4.94	0.36	2.59	29.75
1998	0.75	0.33	2.73	1.11	2.66	1.56	4.81	1.30	0.01	4.20	2.02	0.29	21.77
1999	1.92	0.05	2.89	3.34	1.95	2.97	2.05	2.91	2.05	0.68	0.01	0.31	21.13
POR= 57 YRS	0.54	0.62	1.43	1.91	3.10	3.06	3.08	2.70	1.71	1.47	0.81	0.64	21.07

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AVERAGE TEMPERATURE (°F) 1999 DODGE CITY, KS (DDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	30.0	40.8	36.5	52.7	68.2	73.7	80.8	81.6	68.2	51.3	41.7	36.4	55.2
1971	27.2	31.9	42.3	53.6	62.0	77.1	77.7	76.6	68.2	57.9	43.5	34.9	54.4
1972	29.0	36.8	49.2	55.1	63.0	73.8	76.0	75.5	67.6	54.4	37.0	27.3	53.7
1973	28.6	35.4	41.7	46.9	58.8	76.4	79.8	81.6	65.3	61.2	44.1	32.0	54.3
1974	26.2	40.5	48.4	57.4	67.7	74.2	83.4	74.9	63.4	60.1	43.6	33.7	56.1
1975	33.8	29.9	40.2	53.6	64.7	72.4	78.3	81.4	67.1	60.6	41.4	37.6	55.1
1976	32.9	45.0	44.5	57.0	59.9	74.3	80.4	79.9	70.1	50.9	39.6	36.4	55.9
1977	23.7	41.9	47.8	58.9	68.8	79.5	84.3	77.6	72.4	58.6	44.5	35.6	57.8
1978	21.9	21.3	44.7	57.3	61.9	75.2	83.4	78.1	72.8	58.0	42.8	30.8	54.0
1979	14.8	28.6	45.0	54.1	60.5	73.7	78.0	74.1	70.7	58.4	37.5	34.4	52.5
1980	26.9	30.4	39.6	53.2	62.6	78.4	87.2	82.1	73.5	58.3	46.7	38.3	56.4
1981	36.1	38.8	44.0	61.0	61.6	78.5	82.2	78.0	71.6	56.4	47.5	34.1	57.5
1982	28.2	29.9	44.4	52.4	64.7	69.8	80.7	81.1	72.1	58.4	41.4	35.5	54.9
1983	33.2	37.0	43.1	48.0	61.1	71.8	84.1	86.5	74.2	59.5	44.3	18.4	55.1
1984	28.6	40.7	38.7	49.0	64.4	76.7	82.4	82.5	70.0	56.1	45.7	35.1	55.8
1985	25.9	32.4	45.9	58.1	67.2	73.7	80.1	77.2	67.0	54.4	35.5	29.8	53.9
1986	40.1	37.4	51.0	56.8	64.3	75.5	81.3	74.6	70.1	55.6	40.7	35.5	56.9
1987	33.0	40.3	43.2	55.3	65.3	73.2	76.9	76.1	68.8	55.7	45.2	33.6	55.6
1988	27.0	35.1	43.8	52.1	65.4	77.2	79.7	80.3	68.2	55.4	45.2	37.9	55.6
1989	37.4	25.3	45.3	58.9	65.1	68.0	76.7	75.0	65.1	58.7	44.1	27.2	53.9
1990	35.3	36.3	45.5	52.2	60.1	77.5	77.4	78.6	72.9	57.3	48.4	27.9	55.8
1991	28.7	43.6	47.0	56.2	69.2	77.4	81.6	78.7	70.4	57.2	36.3	37.3	57.0
1992	38.0	42.1	48.4	56.1	62.7	68.1	75.5	71.9	68.4	56.6	35.7	26.4	54.2
1993	25.1	28.6	41.1	50.3	62.8	72.0	78.4	76.5	65.5	53.0	38.2	36.1	52.3
1994	29.5	30.7	47.1	52.2	65.6	78.3	76.9	77.9	68.7	56.9	43.3	36.7	55.3
1995	33.0	40.5	43.1	50.2	57.6	69.4	77.8	82.0	67.1	56.4	44.8	32.8	54.6
1996	28.4	37.7	39.1	54.4	67.5	74.9	77.8	73.8	65.1	56.1	39.8	34.6	54.1
1997	30.3	35.4	47.3	48.1	61.3	71.7	77.7	75.1	70.4	57.0	40.3	31.5	53.8
1998	32.5	39.9	38.1	52.1	68.2	75.5	80.4	78.4	75.4	59.4	47.4	34.4	56.8
1999	33.6	44.0	42.4	53.1	63.3	70.8	80.6	78.9	65.5	56.6	49.9	37.4	56.3
POR= 57 YRS	30.5	35.7	42.7	54.0	63.9	74.1	79.6	78.1	68.9	57.5	42.7	33.3	55.1

HEATING DEGREE DAYS (base 65°F) 1999 DODGE CITY, KS (DDC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	4	0	85	441	696	880	1163	919	701	337	142	0	5368
1971-72	2	0	110	238	639	929	1111	812	485	301	129	3	4759
1972-73	6	0	70	345	831	1164	1122	822	717	537	199	0	5813
1973-74	0	0	99	168	622	1018	1199	682	510	254	62	2	4616
1974-75	0	1	118	180	633	963	961	975	762	357	78	25	5053
1975-76	0	0	92	190	701	845	986	574	631	249	181	3	4452
1976-77	0	0	48	464	753	879	1274	645	529	198	8	0	4798
1977-78	0	0	3	219	609	903	1330	1216	630	252	169	12	5343
1978-79	0	2	41	228	667	1054	1549	1013	615	343	175	25	5712
1979-80	0	7	27	237	816	940	1171	996	780	364	130	3	5471
1980-81	0	0	26	257	548	822	889	728	644	180	164	0	4258
1981-82	0	0	24	284	517	954	1131	979	632	381	67	26	4995
1982-83	0	0	30	221	701	907	980	778	670	509	164	20	4980
1983-84	0	0	49	209	617	1442	1122	699	805	473	96	3	5515
1984-85	0	0	117	295	570	916	1206	907	585	217	48	10	4871
1985-86	0	0	154	331	878	1086	766	765	438	269	66	0	4753
1986-87	0	6	36	285	722	911	988	685	669	321	63	3	4689
1987-88	4	8	24	290	585	964	1171	861	653	382	88	0	5030
1988-89	0	1	48	301	589	835	847	1105	616	270	110	50	4772
1989-90	0	0	130	236	623	1165	914	795	596	384	190	1	5034
1990-91	4	0	35	258	499	1147	1116	591	555	275	58	0	4538
1991-92	0	0	55	311	853	851	828	654	505	282	135	30	4504
1992-93	0	8	40	289	875	1188	1228	1013	732	439	129	23	5964
1993-94	0	11	87	392	797	887	1095	955	551	402	83	0	5260
1994-95	0	1	51	253	644	868	983	679	670	442	239	27	4857
1995-96	0	0	115	276	597	990	1128	785	795	328	94	7	5115
1996-97	6	0	80	297	748	932	1068	825	541	503	148	5	5153
1997-98	0	6	40	313	734	1030	999	694	830	388	61	36	5131
1998-99	0	0	20	200	518	943	965	582	692	352	100	21	4393
1999-	1	0	103	272	447	848							

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COOLING DEGREE DAYS (base 65°F) 1999 DODGE CITY, KS (DDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	18	161	301	498	520	187	25	0	0	1710
1971	0	0	2	1	53	369	404	366	213	23	0	0	1431
1972	0	0	4	11	72	275	356	334	156	26	0	0	1234
1973	0	0	0	0	15	352	467	521	114	56	0	0	1525
1974	0	0	1	33	152	287	579	313	77	36	0	0	1478
1975	0	0	0	22	76	252	419	515	162	59	0	0	1505
1976	0	0	4	19	32	286	484	466	205	35	0	0	1531
1977	0	0	2	23	132	441	604	396	231	25	0	0	1854
1978	0	0	8	28	77	327	577	416	282	17	6	0	1738
1979	0	0	2	23	46	292	411	296	206	40	0	0	1316
1980	0	0	0	18	62	410	695	538	288	56	5	0	2072
1981	0	0	0	64	65	411	540	407	231	21	0	0	1739
1982	0	0	0	9	64	177	494	504	253	24	0	0	1525
1983	0	0	0	3	50	233	600	674	332	44	3	0	1939
1984	0	0	0	0	86	365	547	552	272	28	0	0	1850
1985	0	0	2	18	121	277	472	383	224	8	0	0	1505
1986	0	0	8	32	49	324	511	311	196	1	0	0	1432
1987	0	0	0	38	79	256	379	359	144	9	1	0	1265
1988	0	0	0	3	108	373	463	480	149	12	0	0	1588
1989	0	0	12	95	119	145	369	317	138	47	0	0	1242
1990	0	0	0	9	44	383	395	429	278	24	4	0	1566
1991	0	0	4	17	195	376	522	430	226	75	0	0	1845
1992	0	0	0	20	70	132	335	232	149	34	0	0	972
1993	0	0	0	3	67	239	420	372	106	26	0	0	1233
1994	0	0	2	23	106	406	376	409	168	9	0	0	1499
1995	0	0	0	8	19	168	405	534	186	16	0	0	1336
1996	0	0	0	16	176	310	406	280	89	28	0	0	1305
1997	0	0	0	3	41	213	403	329	208	71	0	0	1268
1998	0	0	5	5	168	358	484	420	338	36	0	0	1814
1999	0	0	1	3	57	203	491	439	127	19	0	0	1340

SNOWFALL (inches) 1999 DODGE CITY, KS (DDC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	1.1	T	T	9.9	14.1	0.1	T	0.0	0.0	25.2
1971-72	0.0	0.0	0.0	T	1.6	5.2	2.2	0.7	1.0	T	0.0	0.0	10.7
1972-73	0.0	0.0	0.0	T	6.3	3.2	8.8	2.7	1.0	2.4	0.0	0.0	24.4
1973-74	0.0	0.0	0.0	0.0	2.7	10.3	4.2	0.2	T	0.4	0.0	0.0	17.8
1974-75	0.0	0.0	0.0	0.0	T	2.8	2.9	6.1	4.0	T	0.0	0.0	15.8
1975-76	0.0	0.0	0.0	0.0	3.2	0.2	0.6	5.7	2.7	0.0	0.0	0.0	12.4
1976-77	0.0	0.0	0.0	3.8	1.7	T	5.5	0.0	0.3	2.7	0.0	0.0	14.0
1977-78	0.0	0.0	0.0	0.0	0.7	T	5.6	16.5	5.0	0.0	0.9	0.0	28.7
1978-79	0.0	0.0	0.0	0.0	T	5.1	10.3	0.9	5.1	3.8	0.3	0.0	25.5
1979-80	0.0	0.0	0.0	T	T	3.4	5.4	15.1	10.2	1.5	0.0	0.0	35.6
1980-81	0.0	0.0	0.0	0.1	0.1	3.9	2.9	0.4	4.4	0.0	0.0	0.0	11.8
1981-82	0.0	0.0	0.0	0.0	T	3.6	0.6	13.6	1.4	0.0	0.0	0.0	19.2
1982-83	0.0	0.0	0.0	0.0	5.0	2.6	4.7	4.1	7.6	9.0	0.0	0.0	33.0
1983-84	0.0	0.0	0.0	0.0	2.8	6.2	6.8	0.1	11.0	0.3	0.0	0.0	27.2
1984-85	0.0	0.0	T	T	0.8	2.8	8.5	1.6	5.5	0.0	0.0	0.0	19.2
1985-86	0.0	0.0	T	0.0	9.8	1.1	0.0	2.8	T	0.0	0.0	0.0	13.7
1986-87	0.0	0.0	0.0	T	T	5.6	7.2	1.4	16.3	T	0.0	0.0	30.5
1987-88	0.0	0.0	0.0	0.0	2.5	7.2	11.8	T	3.5	0.0	0.0	0.0	25.0
1988-89	0.0	0.0	0.0	0.0	1.0	T	0.4	2.7	T	5.7	0.0	0.0	9.8
1989-90	T	0.0	0.0	0.0	T	5.0	15.7	7.7	0.5	0.4	0.0	0.0	29.3
1990-91	0.0	0.0	0.0	0.0	0.7	2.8	3.3	T	3.4	0.0	T	0.0	10.2
1991-92	0.0	0.0	0.0	4.5	1.0	T	T	0.0	0.6	0.0	T	0.0	6.1
1992-93	T	T	T	T	16.3	8.3	10.4	19.6	6.5	T	0.0	0.0	61.1
1993-94	0.0	0.0	0.0	0.2	T	2.8	1.8	1.0	1.0	0.1	0.0	0.0	6.9
1994-95	T	0.0	T	0.0	T	0.4	3.3	7.3	12.3	0.0	0.0	T	23.3
1995-96	0.0	0.0	1.4	0.0	0.1	6.9	1.7	1.0	3.4	T	0.0	0.0	14.5
1996-97	T	0.0	0.0	4.3	T	T	1.8	6.7	0.0	2.1	T	0.0	14.9
1997-98	T	0.0	0.0	2.0	1.4	14.9	0.7	0.3	18.5	0.1	T	T	37.9
1998-99	T	0.0	0.0	0.0	T	2.6	9.1	1.0	19.0	T	0.0	T	31.7
1999-	0.0	0.0	0.0	0.0	T	2.5							
POR= 58 YRS	T	T	T	0.3	T	0.4	4.4	3.8	5.2	T	T	T	14.1

WBAN : 13985

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 (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.</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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999
DODGE CITY,
KANSAS (DDC)

The climate of Dodge City and southwestern Kansas is classified as semi-arid. Dodge City is nearly 300 miles east of the Rocky Mountains, but the weather reflects the influence of the mountains. The mountains form a barricade against all except high level moisture from the southwest, west, and northwest. Chinook winds occur occasionally but with less frequency and effect than at stations farther to the west. Relatively dry air predominating with an abundance of sunshine contribute to broad diurnal temperature ranges.

Thunderstorms during the growing season contribute most of the moisture. In general, the thunderstorms are widely scattered, occurring during the late afternoons and evenings. They are occasionally accompanied by hail and strong winds, but due to the local nature of the storms, damage to crops and buildings is spotty and variable. Winter is the dry season. However, the moisture accumulated during the winter months is important for the hard winter wheat. The duration of snow cover is generally brief due to mild temperatures and an abundance of sunshine. The exception results from the occasional blizzard that spreads across the flat treeless prairies of the high plains.

Afternoon temperatures in the 90s prevail during the summer months. Temperatures above 100 degrees are the exception. Due to low humidity and a continual breeze, these high temperatures are moderated. Temperatures normally drop sharply after sunset, allowing cool comfortable nights. During the winter months, large temperature changes are frequent, but the duration of extreme cold spells is brief.

The visibility at Dodge City is generally unrestricted as the terrain is favorable for unrestricted movement of air and air masses. Western Kansas is noted for clear skies and an abundance of sunshine.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 23 and the average last occurrence in the spring is April 21.

STATION LOCATION

DODGE CITY, KANSAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUTOMATED * EQUIPMENT	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND												
							WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND			
CITY - Note: For June 1866 to December 1888 see previous editions.																			
Old Dodge House Chestnut & Railroad Ave	9/15/74	6/4/76	NA	37°45'	100°01'	2485	30	16	16								on roof	Temperature and precipitation.	
Lake Bldg., Walnut St. & Second Ave., 2nd Fl.	6/5/76	12/31/82	600 ft WNW	37°45'	100°01'	2491	36	15	15								30		
Hoover Block, 108 Front Street	1/1/83	8/31/86	500 ft SE	37°45'	100°01'	2485	47	16	16								41	Forced to move by fire.	
Beeson Block, Front St.	9/1/86	11/21/09	300 ft W	37°45'	100°01'	2485	55 534	44	44			37					36	Wind speeds diminished from fall of 1907 due to new buildings. a - Effective 1894. b - Effective 10/7/02.	
Weather Bureau Building Central and Spruce	11/22/09	4/6/31	900 ft NE	37°34'	100°01'	2522	51	11	11			3					3	Wind speed from north reduced by buildings and trees, 1927-1931.	
First National Bank Building, Second & Spruce Streets	4/7/31	5/30/32	750 ft W	37°45'	100°01'	2504	100	88	88			81					81	Temporary quarters while Federal Building under construction.	
Federal Building 2nd Floor, Central Street & Spruce Avenue	5/21/31	6/30/42	750 ft E	37°45'	100°01'	2522	86	10	10			3	3			3			
<u>AIRPORT</u>																			
2nd Floor + Administration Building Municipal Airport + Office moved to 1st floor 4/10/61.	7/1/41	10/17/90	2.9 mi E	37°46'	99°58'	2594 g2582	58 c33	5 g4	5 g4	Unk e27	3 d h3	5 c5 i5	4 c5	NA f5 j5	NA m	c d e f		c - Minor move 4/12/61. d - Removed 4/12/61. e - Effective 7/25/63. f - Commissioned 1295' NE of thermometer shelter 8/1/63.	
NWS Office, NOAA 104 Airport Road	10/17/90	09/01/92	300 ft W	37°46'	99°58'	2576	n26	n4	n4	n7	n5 p4 q	n5 o4	n5 o4	n5 r	n	g h i j m		g - Effective 8/1/63. h - Installed 3/9/73. i - Type change 5/23/80. j - Type change 09/04/84. m - AMOS/ASOS installed 04/27/85. n - Moved 10/17/90. o - Minor move 6/16/94. p - Minor move 8/1/94. q - Decommissioned Tipping Bucket - 09/12/95 r - Decommissioned Hydrothermometer - 12/18/95	
Dodge City Regional AP	09/01/92	Present	NA	37°46'	99°58'	2588									S			ASOS Commissioned 09/01/92	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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