

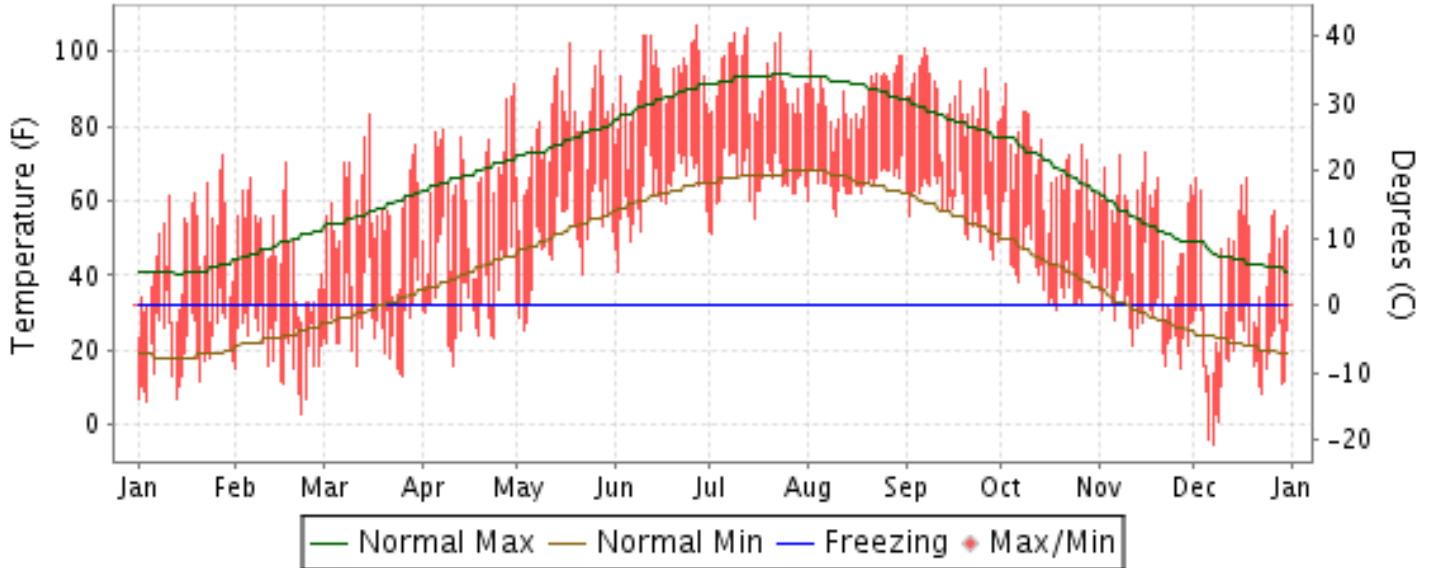


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

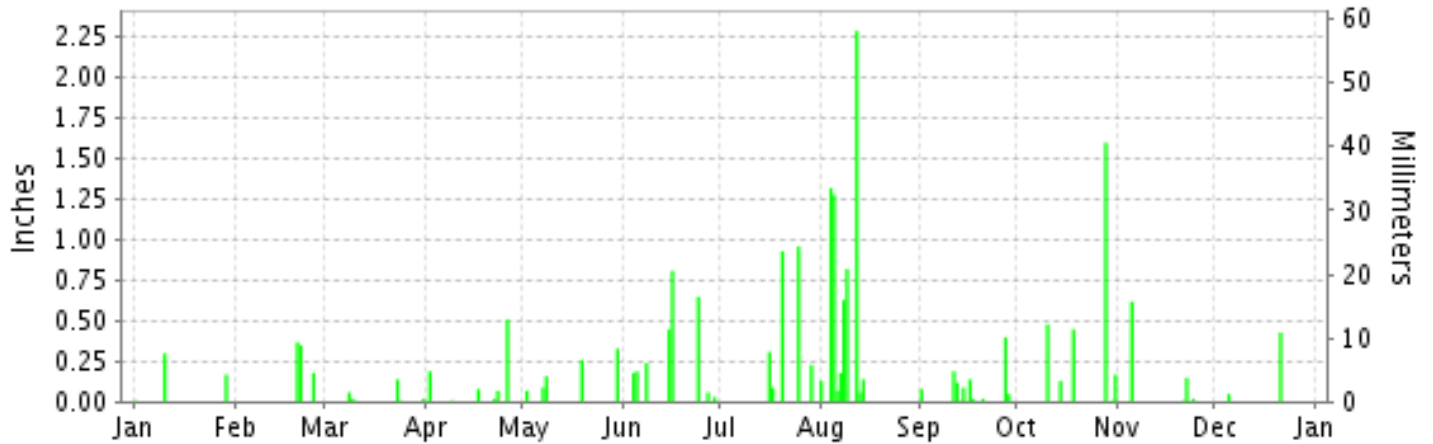
ISSN 0198-215X

DODGE CITY, KANSAS (KDDC)

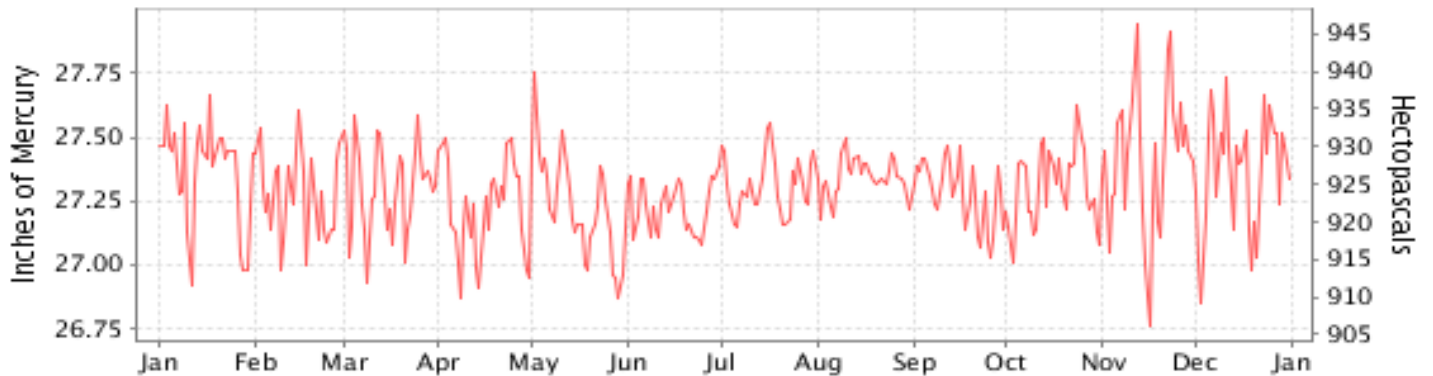
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

DODGE CITY (KDDC)

LATITUDE: 37° 46'N LONGITUDE: 99° 58'W ELEVATION (FT): GRND: 2582 BARO: 2590 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	45.6	47.0	57.1	63.6	80.3	92.3	92.7	88.3	85.9	68.9	54.8	42.2	68.2	
	HIGHEST DAILY MAXIMUM	72	70	83	91	102	107	106	100	101	91	73	66	107	
	DATE OF OCCURRENCE	28	17	15	30	18	27	13	02	07	03	16	18+	JUN 27	
	MEAN DAILY MINIMUM	20.3	20.6	27.5	34.7	49.6	62.3	65.4	65.0	58.8	41.6	28.9	17.5	41.0	
	LOWEST DAILY MINIMUM	6	3	13	16	25	41	51	56	44	31	15	-5	-5	
	DATE OF OCCURRENCE	04	22	26	11	03	02	02	10	29	19	27	07	DEC 07	
	AVERAGE DRY BULB	32.9	33.8	42.3	49.1	65.0	77.3	79.0	76.6	72.4	55.3	41.8	29.9	54.6	
	MEAN WET BULB	27.4	28.8	35.4	40.6	53.5	63.3	65.2	67.0	60.6	46.7	35.4	24.3	45.7	
	MEAN DEW POINT	20.3	20.8	26.5	31.2	44.9	54.9	57.6	62.4	52.8	38.5	27.4	15.6	37.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	1	7	19	19	16	12	1	0	0	0	75
	MAXIMUM <= 32°	7	3	0	1	0	0	0	0	0	0	2	11	24	
MINIMUM <= 32°	29	27	23	16	5	0	0	0	0	3	19	30	152		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	2	2		
H/C	HEATING DEGREE DAYS	989	863	698	486	138	12	0	0	16	324	688	1080	5294	
	COOLING DEGREE DAYS	0	0	0	19	143	388	443	371	246	31	0	0	1641	
RH	MEAN (PERCENT)	66	64	60	58	57	52	56	67	56	60	62	61	60	
	HOUR 00 LST	73	72	70	67	72	66	68	77	65	70	68	67	70	
	HOUR 06 LST	77	76	77	77	80	75	78	87	75	78	73	71	77	
	HOUR 12 LST	54	53	45	43	38	35	40	54	40	45	49	50	46	
	HOUR 18 LST	60	54	43	42	35	35	41	48	41	46	57	57	47	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	6	2	3	2	0	4	1	2	3	1	1	26	
	THUNDERSTORMS	0	0	0	0	4	8	6	6	4	4	1	0	33	
PR	MEAN STATION PRESS. (IN.)	27.37	27.28	27.30	27.23	27.24	27.23	27.31	27.34	27.29	27.31	27.42	27.37	27.31	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.03	30.03	29.93	29.89	29.84	29.93	29.96	29.92	29.99	30.16	30.16	30.00	
WINDS	RESULTANT SPEED (MPH)	3.0	2.1	1.0	0.8	3.0	7.1	8.1	7.2	7.8	2.3	1.9	2.0	2.9	
	RES. DIR. (TENS OF DEGS.)	25	30	05	14	15	17	16	16	17	19	21	30	18	
	MEAN SPEED (MPH)	10.8	12.9	12.8	14.2	14.3	14.3	12.3	10.8	13.5	13.2	12.5	11.7	12.8	
	PREVAIL.DIR.(TENS OF DEGS.)	19	35	35	17	15	17	19	17	17	16	18	35	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	41	44	40	40	46	52	44	33	38	37	44	39	52	
	DIR. (TENS OF DEGS.)	23	31	35	01	32	29	04	28	29	15	18	01	29	
	DATE OF OCCURRENCE	11	10	10	22	08	16	22	31	23	10	03	29	JUN 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	55	54	55	52	60	69	58	44	53	51	56	48	69	
DIR. (TENS OF DEGS.)	23	31	35	01	32	28	04	28	28	27	18	36	28		
DATE OF OCCURRENCE	11	10	10	22	08	16	22	31	23	31	03	29	JUN 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.48	0.90	0.26	0.88	0.91	2.61	2.52	6.92	1.12	2.84	0.80	0.48	20.72	
	GREATEST 24-HOUR (IN.)	0.30	0.44	0.15	0.51	0.33	1.25	0.96	2.35	0.45	1.60	0.62	0.43	2.35	
	DATE OF OCCURRENCE	10	20-21	23-24	26	30	15-16	25	12-13	27-28	28	05	21	AUG 12-13	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	3	3	6	6	5	8	5	10	10	6	4	2	68		
PRECIPITATION 0.10	2	3	1	2	3	6	4	8	4	5	2	1	41		
PRECIPITATION 1.00	0	0	0	0	0	0	0	3	0	1	0	0	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	2.2	14.3	2.1	0.2	1.0	0.0	0.0	0.0	0.0	2.7	2.3	5.5	30.3	
	GREATEST 24-HOUR (IN.)	2.0	6.6	1.7	0.2	1.0	0.0	0.0	0.0	0.0	2.7	2.1	3.6	6.6	
	DATE OF OCCURRENCE	29	21	23	23	02					18	22	21	FEB 21	
	MAXIMUM SNOW DEPTH (IN.)	5	11	3	T	1	0	0	0	0	T	2	4	11	
	DATE OF OCCURRENCE	03+	23+	01	23+	02					19+	23	22	FEB 23+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	3	1	0	1	0	0	0	0	1	1	2	10		

NORMALS, MEANS, AND EXTREMES DODGE CITY (KDDC)

LATITUDE: 37° 46'N **LONGITUDE:** 99° 58'W **ELEVATION (FT):** GRND: 2582 BARO: 2590 **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	44.2	48.4	57.8	67.5	76.9	86.7	92.8	90.8	82.4	69.7	55.9	44.3	68.1
	MEAN DAILY MAXIMUM	66	42.6	47.6	56.3	67.5	76.7	87.1	92.7	90.8	81.9	70.4	55.4	44.8	67.8
	HIGHEST DAILY MAXIMUM	70	80	85	93	100	106	111	109	108	107	98	91	86	111
	YEAR OF OCCURRENCE		1989	2006	1989	1989	2011	2012	2011	2011	2011	2006	1980	1955	JUN 2012
	MEAN OF EXTREME MAXS.	66	67.3	72.8	81.6	88.6	93.9	100.4	103.3	102.0	97.0	90.2	76.5	67.9	86.8
	NORMAL DAILY MINIMUM	30	20.1	23.4	31.0	40.2	51.5	61.0	66.3	65.3	56.0	43.4	30.3	21.2	42.5
	MEAN DAILY MINIMUM	66	19.0	23.1	30.2	40.9	51.7	61.5	67.0	65.5	56.3	43.9	30.4	21.8	42.6
	LOWEST DAILY MINIMUM	70	-13	-15	-15	14	25	41	46	47	29	14	0	-21	-21
	YEAR OF OCCURRENCE		1984	1951	1948	1997	2013	2013	1990	1950	1985	1993	1958	1989	DEC 1989
	MEAN OF EXTREME MINS.	66	-0.1	4.0	11.4	24.7	36.7	48.8	57.2	55.3	40.4	28.1	13.5	3.6	27.0
	NORMAL DRY BULB	30	32.2	35.9	44.4	53.9	64.2	73.9	79.6	78.1	69.2	56.6	43.1	32.8	55.3
	MEAN DRY BULB	66	30.8	35.4	43.3	54.2	64.3	74.5	79.8	78.1	69.1	57.2	42.9	33.3	55.2
	MEAN WET BULB	30	24.7	28.1	35.3	43.4	53.9	61.7	65.3	64.8	56.6	45.7	33.9	26.0	45.0
	MEAN DEW POINT	30	21.8	24.5	31.8	39.8	51.6	59.8	62.9	62.4	53.9	42.6	30.7	23.0	42.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.7	2.9	11.4	20.9	18.4	7.6	0.8	0.0	0.0	62.7
	MAXIMUM <= 32	30	6.5	4.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	5.1	18.3
MINIMUM <= 32	30	28.5	22.7	16.8	5.1	0.1	0.0	0.0	0.0	0.1	3.0	17.4	28.8	122.5	
MINIMUM <= 0	30	0.7	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	
H/C	NORMAL HEATING DEG. DAYS	30	1018	815	640	352	115	13	1	3	61	291	658	1000	4967
	NORMAL COOLING DEG. DAYS	30	0	0	1	18	90	278	452	407	187	29	1	0	1463
RH	NORMAL (PERCENT)	30	68	65	63	60	66	61	57	60	61	60	64	67	63
	HOURLY 00 LST	30	74	72	70	70	76	71	67	69	69	68	72	73	71
	HOURLY 06 LST	30	77	77	78	77	83	80	78	80	79	76	77	77	78
	HOURLY 12 LST	30	59	55	52	47	53	48	45	47	47	46	52	57	51
	HOURLY 18 LST	30	61	53	48	44	50	45	40	43	45	47	57	62	50
S	PERCENT POSSIBLE SUNSHINE	66	67	65	65	67	68	76	80	78	75	73	67	66	71
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.9	3.3	2.8	1.9	1.9	1.1	0.7	1.1	1.6	2.6	2.5	3.1	25.5
	THUNDERSTORMS	66	0.1	0.4	1.3	3.4	7.4	9.2	9.5	8.0	4.1	2.0	0.5	0.2	46.1
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)	30	27.36	27.33	27.27	27.23	27.24	27.25	27.31	27.33	27.33	27.33	27.34	27.35	27.31
	MEAN SEA-LEVEL PRES. (IN)	30	30.12	30.08	29.98	29.90	29.88	29.87	29.92	29.94	29.97	30.01	30.06	30.11	29.99
WINDS	MEAN SPEED (MPH)	30	12.5	13.1	14.4	14.9	14.0	13.7	12.5	11.8	12.9	13.0	12.9	12.5	13.2
	PREVAIL.DIR(TENS OF DEGS)	42	20	36	19	19	19	19	19	19	19	19	19	19	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	21	56	47	49	51	55	60	56	63	51	49	49	46	63
	DIR. (TENS OF DEGS)		34	01	28	31	30	29	36	32	14	34	34	32	32
	YEAR OF OCCURRENCE		1996	2009	2000	2009	2006	1996	1996	2002	1996	2001	2006	2011	AUG 2002
	MAXIMUM 3-SECOND SPEED (MPH)	21	66	64	60	69	67	70	79	75	59	72	62	63	79
	DIR. (TENS OF DEGS)		34	34	15	32	20	28	25	32	14	34	34	32	25
	YEAR OF OCCURRENCE		1996	2007	2007	2011	2007	1996	1996	2002	1996	2001	2006	2011	JUL 1996
PRECIPITATION	NORMAL (IN)	30	0.58	0.68	1.59	1.82	2.85	3.24	3.08	2.75	1.67	1.74	0.76	0.84	21.60
	MAXIMUM MONTHLY (IN)	70	1.96	2.87	8.84	6.26	8.69	7.95	9.13	7.44	6.80	5.00	3.75	4.26	9.13
	YEAR OF OCCURRENCE		1949	1993	1973	1976	1951	1951	1962	1977	1973	2008	1971	2006	JUL 1962
	MINIMUM MONTHLY (IN)	70	0.00	T	0.02	0.07	0.25	0.12	0.17	0.65	0.01	T	T	T	0.00
	YEAR OF OCCURRENCE		1986	2006	2008	1963	2004	1952	1946	2011	1980	1952	1989	1957	JAN 1986
	MAXIMUM IN 24 HOURS (IN)	70	1.35	1.82	2.54	4.64	5.57	3.30	6.95	4.48	3.27	4.55	2.42	2.68	6.95
	YEAR OF OCCURRENCE		1990	1993	1973	1978	1978	2010	2010	2003	1959	1968	1996	2006	JUL 2010
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	3.5	4.8	6.5	7.1	8.9	8.9	8.2	8.0	5.7	6.1	4.5	4.6	76.8
PRECIPITATION >= 1.00	30	0.0	0.0	0.2	0.4	0.6	1.0	0.6	0.6	0.5	0.4	0.2	0.1	4.6	
SNOWFALL	NORMAL (IN)	30	4.9	3.9	4.9	1.1	0.0	0.0	0.0	0.0	0.0	0.4	1.8	4.1	21.1
	MAXIMUM MONTHLY (IN)	70	15.7	19.6	24.0	10.0	1.0	T	T	T	T	4.5	16.7	14.9	24.0
	YEAR OF OCCURRENCE		1990	1993	1970	2007	2013	2009	2006	1992	1985	1991	1992	1997	MAR 1970
	MAXIMUM IN 24 HOURS (IN)	70	11.8	12.0	15.1	7.4	1.0	T	T	T	T	4.3	6.7	11.6	15.1
	YEAR OF OCCURRENCE		1990	1993	1999	1983	2013	2009	1992	1992	1985	1996	1948	1997	MAR 1999
	MAXIMUM SNOW DEPTH (IN)	68	12	11	14	6	T	0	0	0	0	3	8	12	14
	YEAR OF OCCURRENCE		1988	2013	1957	2007	2013					1976	1948	1997	MAR 1957
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.3	1.1	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.2	5.8

PRECIPITATION (inches) 2013 DODGE CITY (KDDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	0.50	0.16	4.97	2.03	1.82	2.83	4.19	1.91	0.19	2.74	0.13	0.46	21.93
2001	1.54	1.58	0.51	0.97	7.84	0.95	1.21	1.27	2.24	0.01	0.14	0.03	18.29
2002	0.65	0.38	0.29	1.05	1.35	1.42	0.57	5.14	0.19	2.85	0.02	0.61	14.52
2003	0.07	1.30	2.30	1.14	2.49	4.10	0.48	5.03	5.09	0.30	0.03	0.50	22.83
2004	0.05	1.03	1.96	2.53	0.25	4.36	5.20	2.12	2.82	1.64	2.34	0.16	24.46
2005	1.70	0.89	1.51	0.98	2.04	4.40	1.29	2.62	1.16	3.47	0.34	0.14	20.54
2006	0.11	T	1.01	0.79	3.94	2.47	2.04	4.13	0.64	1.67	0.07	4.26	21.13
2007	0.39	0.42	3.13	1.46	2.35	2.16	1.82	3.69	0.24	1.47	0.07	1.92	19.12
2008	0.17	0.61	0.02	1.79	3.88	1.56	1.14	1.89	1.89	5.00	0.19	0.15	18.29
2009	0.02	0.18	0.68	3.60	1.29	6.34	4.29	1.73	2.50	3.85	0.66	0.38	25.52
2010	0.61	0.71	1.20	1.04	4.04	4.44	8.40	1.92	0.16	1.12	1.27	0.41	25.32
2011	0.34	0.26	0.73	1.01	0.68	0.32	0.61	0.65	0.54	1.13	1.90	2.13	10.30
2012	0.07	0.96	2.67	3.44	0.61	1.78	1.92	3.24	0.91	1.52	0.09	0.87	18.08
2013	0.48	0.90	0.26	0.88	0.91	2.61	2.52	6.92	1.12	2.84	0.80	0.48	20.72
POR= 66 YRS	0.52	0.64	1.50	1.80	2.96	3.05	3.05	2.78	1.76	1.53	0.77	0.68	21.04

WBAN : 13985

AVERAGE TEMPERATURE (°F) 2013 DODGE CITY (KDDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	33.5	41.7	45.1	54.1	67.2	72.6	79.0	81.4	71.2	58.3	36.8	26.3	55.6
2001	32.4	29.9	41.9	57.8	63.7	73.8	84.7	79.6	69.1	56.8	48.2	37.2	56.3
2002	33.8	35.8	39.0	57.7	64.1	77.9	81.4	77.6	69.9	49.5	42.2	34.8	55.3
2003	34.0	31.1	44.0	55.6	63.4	70.8	82.9	79.7	65.0	58.4	41.8	35.3	55.2
2004	32.1	33.3	49.9	53.5	68.5	72.3	76.5	72.7	71.1	57.0	42.4	37.1	55.5
2005	31.3	39.9	45.2	54.6	65.4	75.0	79.4	78.2	74.1	59.7	48.1	33.5	57.0
2006	42.9	35.7	46.5	60.5	66.5	77.2	82.1	77.8	64.6	55.7	43.9	36.4	57.5
2007	28.7	32.6	52.5	50.2	65.0	72.1	78.6	81.9	71.2	60.2	43.9	29.9	55.6
2008	32.8	35.4	43.1	51.5	63.3	75.0	80.4	77.7	67.6	57.2	45.1	32.7	55.2
2009	34.2	40.6	45.4	53.5	62.8	74.9	78.0	75.6	65.9	49.1	46.7	27.8	54.5
2010	29.6	30.4	44.3	56.4	62.1	77.9	79.9	80.0	72.6	60.3	42.9	33.6	55.8
2011	29.5	32.3	44.3	55.8	64.0	79.9	86.9	83.7	67.8	58.2	43.3	31.5	56.4
2012	36.5	36.5	54.2	57.4	69.1	79.2	84.1	76.2	68.6	54.0	47.2	34.3	58.1
2013	32.9	33.8	42.3	49.1	65.0	77.3	79.0	76.6	72.4	55.3	41.8	29.9	54.6
POR= 66 YRS	30.8	35.4	43.3	54.2	64.3	74.5	79.8	78.1	69.1	57.2	42.9	33.3	55.2

HEATING DEGREE DAYS (base 65°F) 2013 DODGE CITY (KDDC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	1	0	103	272	447	848	968	670	611	329	86	9	4344
2000-01	0	0	81	220	840	1193	1003	974	710	233	98	17	5369
2001-02	0	0	41	276	498	854	962	814	801	259	124	0	4629
2002-03	0	0	40	486	674	931	953	944	642	298	118	21	5107
2003-04	0	7	94	235	688	914	1011	914	472	349	74	11	4769
2004-05	1	8	17	256	669	859	1037	696	609	319	110	2	4583
2005-06	0	0	15	233	500	971	680	814	564	192	116	0	4085
2006-07	0	0	69	337	629	879	1118	900	386	444	60	9	4831
2007-08	0	0	25	200	627	1079	989	851	672	415	142	0	5000
2008-09	0	0	52	266	589	995	948	678	599	353	141	2	4623
2009-10	0	1	66	492	540	1147	1091	963	637	263	163	1	5364
2010-11	0	0	8	165	656	967	1090	909	639	284	138	0	4856
2011-12	0	0	54	245	643	1028	878	822	340	244	42	5	4301
2012-13	0	0	42	342	529	946	989	863	698	486	138	12	5045
2013-	0	0	16	324	688	1080							

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COOLING DEGREE DAYS (base 65°F) 2013 DODGE CITY (KDDC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	0	0	0	10	161	242	441	516	274	22	0	0	1666
2001	0	0	0	26	69	287	620	460	169	30	0	0	1661
2002	0	0	0	47	103	395	515	395	193	12	0	0	1660
2003	0	0	0	24	72	202	564	468	97	39	0	0	1466
2004	0	0	10	12	190	238	363	254	208	13	0	0	1288
2005	0	0	0	10	131	310	452	414	292	73	0	0	1682
2006	0	0	0	64	167	375	536	405	62	56	3	0	1668
2007	0	0	5	8	66	231	429	531	218	58	0	0	1546
2008	0	0	0	16	96	310	485	400	136	28	0	0	1471
2009	0	0	0	16	79	302	410	336	100	5	0	0	1248
2010	0	0	0	12	79	397	468	474	243	28	0	0	1701
2011	0	0	2	15	111	452	687	587	144	43	0	0	2041
2012	0	0	13	25	179	435	597	354	156	8	0	0	1767
2013	0	0	0	19	143	388	443	371	246	31	0	0	1641

SNOWFALL (inches) 2013 DODGE CITY (KDDC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0.0	0.0	0.0	0.0	T	2.5	4.8	T	3.5	T	0.0	0.0	10.8
2000-01	T	T	0.0	T	0.0	5.8	14.7	8.8	5.8	T	T	T	35.1
2001-02	0.0	0.0	T	0.0	0.0	0.3	6.2	5.3	0.6	0.0	T	0.0	12.4
2002-03	0.0	T	0.0	0.5	T	6.3	1.5	14.0	0.6	0.0	0.0	T	22.9
2003-04	0.0	0.0	0.0	0.0	T	5.9	0.4	5.7	0.8	2.9	0.0	T	15.7
2004-05	T	0.0	0.0	0.0	8.5	0.4	10.7	0.1	T	T	0.0	0.0	19.7
2005-06	0.0	T	0.0	T	1.0	3.9	0.4	0.2	7.9	0.0	T	T	13.4
2006-07	T	0.0	0.0	0.0	0.4	0.4	5.9	1.8	0.2	10.0	0.0	0.0	18.7
2007-08	0.0	0.0	0.0	0.0	1.5	14.7	3.5	1.0	T	T	T	0.0	20.7
2008-09	0.0	0.0	0.0	T	T	1.2	2.0	T	12.6	1.5	0.0	T	17.3
2009-10	0.0	0.0	0.0	T	T	2.6	6.6	9.5	0.5	0.0	0.0	0.0	19.2
2010-11	0.0	0.0	0.0	0.0	T	2.3	1.8	7.3	0.6	0.2	0.0	0.0	12.2
2011-12	0.0	0.0	0.0	0.0	0.7	5.8	0.0	1.2	T	0.0	0.0	0.0	7.7
2012-13	0.0	0.0	0.0	0.0	0.0	6.9	2.2	14.3	2.1	0.2	1.0	0.0	26.7
2013-	0.0	0.0	0.0	2.7	2.3	5.5							
POR= 66 YRS	T	T	T	0.3	1.8	3.6	4.3	4.1	4.8	0.8	T	T	19.7

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). 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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. 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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE:</p> <p>The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2013 DODGE CITY KANSAS (KDDC)

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 History

DODGE CITY, KS

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
DODGE CITY MUNICIPAL AP	1973-01-01	1992-09-01	37° 46'	-99° 58'	2582		COOP, WXSVC
DODGE CITY REGIONAL AP	1992-09-01	2004-02-11	37° 46'	-99° 58'	2582		ASOS, COOP, WXSVC
DODGE CITY MUNICIPAL AP	1942-07-01	1947-12-01	37° 46'	-99° 58'	2594		AIRWAYS
DODGE CITY MUNICIPAL AP	1947-12-01	1963-01-31	37° 46'	-99° 58'	2594		AIRWAYS, COOP
DODGE CITY REGIONAL AP	2004-02-11	Present	37° 46'	-99° 58'	2582		ASOS, COOP, WXSVC
DODGE CITY MUNICIPAL AP	1963-01-31	1963-08-01	37° 46'	-99° 58'	2594		AIRWAYS
DODGE CITY MUNICIPAL AP	1963-08-01	1973-01-01	37° 46'	-99° 58'	2582		AIRWAYS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1963-08-01	1992-09-01	DAILY	2400	HYGR		
TEMP	1998-05-06	2001-05-01	DAILY	2400	HYGR		
PRECIP	2001-05-01	2003-02-26	HOURLY		AHTB	RCRD;HTD	
TEMP	2003-02-26	2003-05-21	DAILY	2400	ATEMP		
PRECIP	2003-02-26	2003-05-21	HOURLY		AHTB	RCRD;HTD	
TEMPATOBS	2004-05-10	2004-07-16	TWICE DAILY - AM/PM	0700	FRONTIER		
DEWPNTTEMP	2004-05-10	2004-07-16	DAILY	2400	HYGR		
PRECIP	2004-05-10	2004-07-16	DAILY	2400			
PRECIP	2004-07-16	2004-10-25	HOURLY	2400	AWPAG	SHLD;RCRD;HTD	
PRECIP	2004-10-25	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	1995-07-01	1997-10-30	HOURLY	2400	UNIV	RCRD	
PRECIP	1997-10-30	1998-05-06	HOURLY		TB	RCRD	
TEMP	1997-10-30	1998-05-06	DAILY	2400	TEMPX		
PRECIP	1998-05-06	2001-05-01	HOURLY		TB	RCRD	
PRECIP	1998-05-06	2001-05-01	DAILY	2400	TB	RCRD	
TEMP	2004-02-11	2004-05-10	DAILY	2400	ATEMP		
PRECIP	2004-02-11	2004-05-10	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2004-02-11	2004-05-10	DAILY	2400			
SNOWWTREQ	2004-05-10	2004-07-16	DAILY		SNSRG		
TEMPATOBS	2004-05-10	2004-07-16	TWICE DAILY - AM/PM	1600	FRONTIER		
PRECIP	1992-09-01	1995-07-01	DAILY	2400			
TEMPATOBS	2003-02-26	2003-05-21	TWICE DAILY - AM/PM	1600	FRONTIER		
TEMP	2003-05-21	2004-02-11	DAILY	2400	ATEMP		
PRECIP	2003-05-21	2004-02-11	HOURLY		AHTB	RCRD;HTD	
SNOWDPH	2004-02-11	2004-05-10	DAILY	VAR	SNOWSTICK		
TEMP	2004-07-16	2004-10-25	DAILY	2400	ATEMP		
SNOWWTREQ	2004-10-25	Present	DAILY	NOON	SNSRG		
PRECIP	2004-10-25	Present	HOURLY	2400	AWPAG	SHLD;RCRD;HTD	
PRECIP	1963-08-01	1992-09-01	DAILY	2400	UNIV	RCRD	
PRECIP	1992-09-01	1995-07-01	HOURLY	2400			
TEMP	2001-05-01	2003-02-26	DAILY	2400	ATEMP		
TEMPATOBS	2003-05-21	2004-02-11	TWICE DAILY - AM/PM	1600	FRONTIER		
TEMPATOBS	2004-02-11	2004-05-10	TWICE DAILY - AM/PM	0700	FRONTIER		
TEMP	2004-05-10	2004-07-16	DAILY	2400	ATEMP		
PRECIP	2004-05-10	2004-07-16	HOURLY	2400	AHTB	SHLD;RCRD;HTD	
DEWPNTTEMP	2004-07-16	2004-10-25	DAILY	2400			
TEMPATOBS	2004-10-25	Present	TWICE DAILY - AM/PM	0700	FRONTIER		
TEMP	1942-07-01	1947-12-01	DAILY	2400			
PRECIP	1947-12-01	1963-08-01	DAILY	2400	UNIV	RCRD	
PRECIP	1947-12-01	1963-01-31	HOURLY	2400			
PRECIP	1995-07-01	1997-10-30	DAILY	2400			
TEMPATOBS	2003-02-26	2003-05-21	TWICE DAILY - AM/PM	0700	FRONTIER		
PRECIP	2003-05-21	2004-02-11	DAILY	2400			
SNOWWTREQ	2004-02-11	2004-05-10	DAILY	NOON	SNSRG		
TEMPATOBS	2004-10-25	Present	TWICE DAILY - AM/PM	1600	FRONTIER		

Element History continued on next page. Also see Station Metadata link below for complete history.

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

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Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov

Element History

DODGE CITY, KS

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment	Equipment Modifications	Equipment Exposure
TEMP	1992-09-01	1995-07-01	DAILY	2400			
TEMPATOBS	2001-05-01	2003-02-26	TWICE DAILY - AM/PM	1600	FRONTIER		
SNOWWTREQ	2003-05-21	2004-02-11	DAILY	NOON	SNSRG		
SNOWDPTH	2004-07-16	2004-10-25	DAILY	VAR	SNOWSTICK		
DEWPNTTEMP	2004-10-25	Present	DAILY	2400	HYGR		
SNOWWTREQ	2003-02-26	2003-05-21	DAILY	NOON	SNSRG		
TEMPATOBS	2004-02-11	2004-05-10	TWICE DAILY - AM/PM	1600	FRONTIER		
DEWPNTTEMP	2004-02-11	2004-05-10	DAILY	2400	HYGR		
TEMPATOBS	2004-07-16	2004-10-25	TWICE DAILY - AM/PM	0700	FRONTIER		
PRECIP	2004-07-16	2004-10-25	DAILY	2400	PCPNX	SHLD	
PRECIP	1942-07-01	1947-12-01	DAILY	2400	UNIV	RCRD	
PRECIP	1963-08-01	1992-09-01	HOURLY	2400			
TEMP	1995-07-01	1997-10-30	DAILY	2400			
PRECIP	1997-10-30	1998-05-06	DAILY	2400	TB	RCRD	
PRECIP	2001-05-01	2003-02-26	DAILY	2400	AHTB	RCRD;HTD	
TEMPATOBS	2001-05-01	2003-02-26	TWICE DAILY - AM/PM	0700	FRONTIER		
PRECIP	2003-02-26	2003-05-21	DAILY	2400	PCPNX		
TEMPATOBS	2003-05-21	2004-02-11	TWICE DAILY - AM/PM	0700	FRONTIER		
SNOWDPTH	2004-05-10	2004-07-16	DAILY	VAR	SNOWSTICK		
SNOWWTREQ	2004-07-16	2004-10-25	DAILY	NOON	SNSRG		
TEMPATOBS	2004-07-16	2004-10-25	TWICE DAILY - AM/PM	1600	FRONTIER		
SNOWDPTH	2004-10-25	Present	DAILY	VAR	SNOWSTICK		
TEMP	2004-10-25	Present	DAILY	2400	ATEMP		