

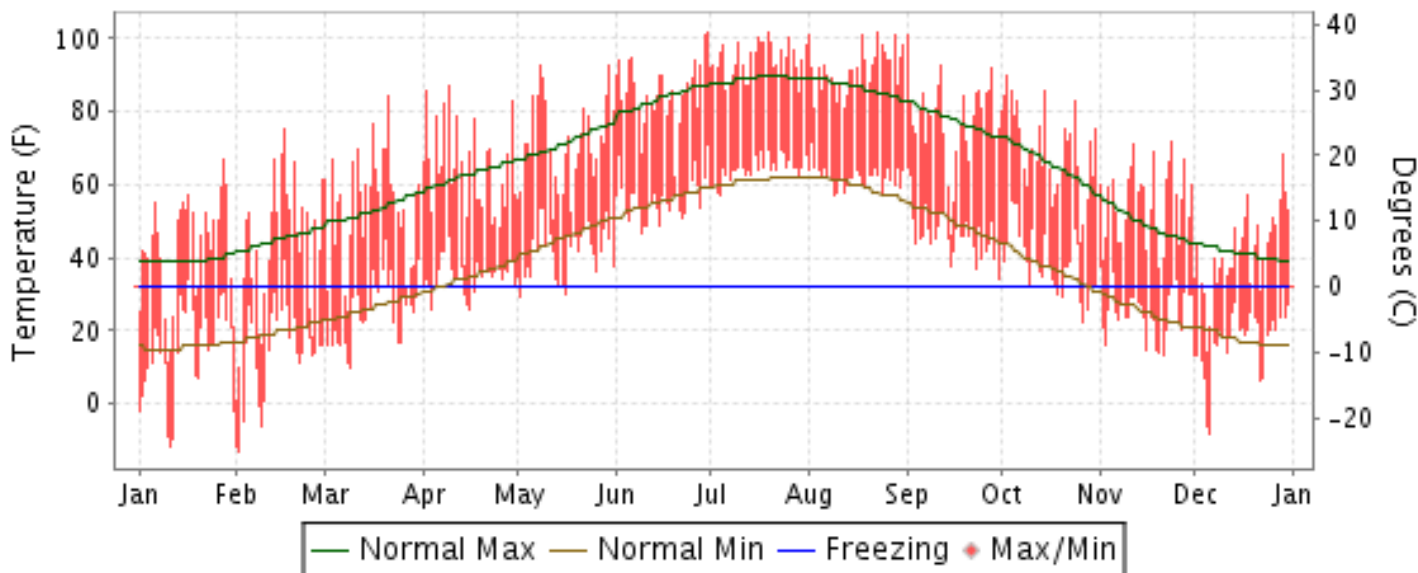


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

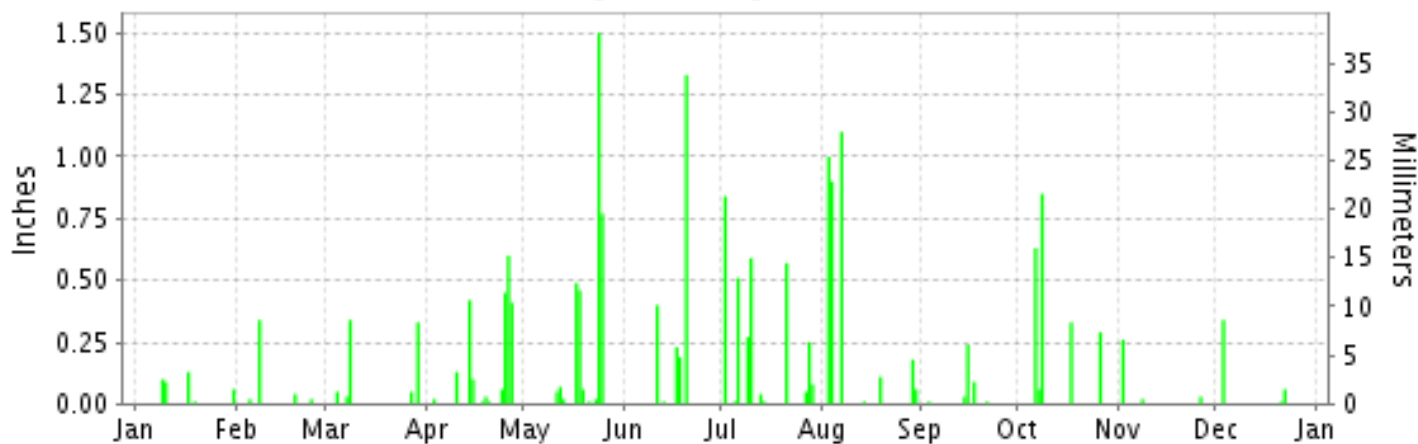
ISSN 0198-2176

## GOODLAND, KANSAS (KGLD)

### 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 2011

## GOODLAND (KGLD)

LATITUDE: 39° 22'N      LONGITUDE: -101° 41'W      ELEVATION (FT): GRND: 3656 BARO: 3657      TIME ZONE: MOUNTAIN (UTC -7)      WBAN: 23065

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.5	43.1	54.5	64.2	71.3	85.6	94.1	91.7	77.7	69.6	55.0	41.9	65.9	
	HIGHEST DAILY MAXIMUM	67	75	84	87	93	102	102	102	101	90	72	68	102	
	DATE OF OCCURRENCE	28	16	21	09	30+	30	19	23	01	03	24	29	AUG 23	
	MEAN DAILY MINIMUM	14.6	14.5	25.3	35.1	41.8	56.2	64.5	62.2	46.7	38.8	25.0	17.5	36.9	
	LOWEST DAILY MINIMUM	-12	-13	10	26	29	47	57	57	34	22	13	-8	-13	
	DATE OF OCCURRENCE	11	02	09	16+	02	09	04	24+	30	27	21	06	FEB 02	
	AVERAGE DRY BULB	28.6	28.8	39.9	49.7	56.6	70.9	79.3	77.0	62.2	54.2	40.0	29.7	51.4	
	MEAN WET BULB	23.9	23.7	33.0	41.4	47.9	59.7	66.9	66.0	52.0	43.9	32.2	25.5	43.0	
	MEAN DEW POINT	17.4	15.4	24.8	31.6	38.6	52.4	60.9	60.2	43.4	34.5	22.3	19.6	35.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	10	26	20	3	1	0	0	0	62
	MAXIMUM <= 32°	8	7	4	0	0	0	0	0	0	0	0	4	4	23
MINIMUM <= 32°	30	27	26	6	3	0	0	0	0	7	26	30	30	155	
MINIMUM <= 0°	5	5	0	0	0	0	0	0	0	0	0	2	2	12	
H/C	HEATING DEGREE DAYS	1122	1006	767	455	278	14	0	0	124	345	740	1086	5937	
	COOLING DEGREE DAYS	0	0	0	2	24	199	450	377	47	17	0	0	1116	
RH	MEAN (PERCENT)	69	64	64	59	58	58	60	63	57	56	57	71	61	
	HOUR 05 LST	77	75	81	78	74	76	79	84	79	72	70	79	77	
	HOUR 11 LST	51	48	46	39	41	41	40	43	38	36	38	54	43	
	HOUR 17 LST	70	60	54	49	47	43	43	48	47	55	55	74	54	
	HOUR 23 LST	80	74	74	71	72	73	77	79	70	66	67	78	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	4	9	7	2	1	1	1	1	1	1	3	35	
	THUNDERSTORMS	0	0	0	2	4	5	9	6	1	2	0	0	29	
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.)	26.22	26.20	26.19	26.06	26.09	26.13	26.22	26.22	26.33	26.24	26.20	26.31	26.20	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.07	30.00	29.80	29.80	29.78	29.86	29.88	30.05	30.00	30.00	30.18	29.96	
WINDS	RESULTANT SPEED (MPH)	5.0	3.7	0.7	3.9	1.2	2.5	4.8	3.8	1.2	3.9	3.3	5.4	1.3	
	RES. DIR. (TENS OF DEGS.)	30	28	16	33	35	12	16	16	16	22	27	29	26	
	MEAN SPEED (MPH)	11.9		11.8	14.2	13.6	12.7	10.0	9.2	9.0	11.7	11.9	11.2		
	PREVAIL.DIR.(TENS OF DEGS.)	25	25	16	34	34	18	17	17	18	17	19	27	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	40	39	38	52	67	43	36	36	29	46	49	59	67	
	DIR. (TENS OF DEGS.)	33	34	17	34	27	34	26	31	35	18	31	30	27	
	DATE OF OCCURRENCE	22	01	24	14	24	20	09	14	20	06	05	31	MAY 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	46	46	46	62	79	53	47	48	39	61	62	77	79	
DIR. (TENS OF DEGS.)	33	35	34	26	27	35	21	26	26	18	31	30	27		
DATE OF OCCURRENCE	22	01	23	17	24	20	10	07	03	06	05	31	MAY 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.39	0.42	0.80	2.24	3.45	2.16	3.22	3.36	0.38	2.16	0.31	0.41	19.30	
	GREATEST 24-HOUR (IN.)	0.18	0.34	0.37	1.01	1.65	1.33	0.84	1.10	0.27	0.91	0.26	0.34	1.65	
	DATE OF OCCURRENCE	09-10	08	07-08	26-27	24-25	20	02	07	14-15	07-08	02	03	MAY 24-25	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	5	4	5	11	10	5	11	7	5	5	3	3	74	
PRECIPITATION 0.10	2	1	2	6	4	4	6	5	1	4	1	1	37		
PRECIPITATION 1.00	0	0	0	0	1	1	0	2	0	0	0	0	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	4.8	6.4	8.0	3.1	T	T	0.0	T	0.0	0.2	3.4	7.8	33.7	
	GREATEST 24-HOUR (IN.)	2.0	5.9	4.3	3.0	T	T	0.0	T	0.0	0.2	3.1	6.5	6.5	
	DATE OF OCCURRENCE	09	08	08	14	24+	18+	07	07		26	02	03	DEC 03	
	MAXIMUM SNOW DEPTH (IN.)	3	6	4	3	0	0	0	0	0	T	2	7	7	
	DATE OF OCCURRENCE	13+	09	09	15+						27	03	04	DEC 04	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	3	1	2	1	0	0	0	0	0	0	1	2	10		

# NORMALS, MEANS, AND EXTREMES GOODLAND (KGLD)

**LATITUDE:** 39° 22'N      **LONGITUDE:** -101° 41'W      **ELEVATION (FT):** GRND: 3656 BARO: 3657      **TIME ZONE:** MOUNTAIN (UTC -7)      **WBAN: 23065**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	39.4	45.0	53.2	62.7	71.7	83.6	89.1	86.7	78.0	66.0	49.6	41.3	63.9
	MEAN DAILY MAXIMUM	104	41.0	43.8	52.4	62.1	72.6	82.6	89.4	88.0	78.5	67.9	51.9	42.9	64.4
	HIGHEST DAILY MAXIMUM	90	79	81	89	96	104	109	111	110	105	96	87	83	111
	YEAR OF OCCURRENCE		1951	2006	1963	1992	2003	1936	1940	1947	1939	1926	1927	1964	JUL 1940
	MEAN OF EXTREME MAXS.	105	65.3	68.8	77.5	85.9	91.5	99.1	101.8	99.9	95.6	87.5	74.6	66.8	84.5
	NORMAL DAILY MINIMUM	30	15.8	19.7	26.4	34.8	45.7	55.5	61.1	59.6	50.0	37.5	25.2	17.8	37.4
	MEAN DAILY MINIMUM	104	15.3	18.2	24.7	33.9	45.0	54.2	60.3	59.3	48.9	37.7	25.0	17.7	36.7
	LOWEST DAILY MINIMUM	90	-26	-22	-20	0	21	31	42	38	19	7	-12	-27	-27
	YEAR OF OCCURRENCE		1959	1982	1960	1936	1967	1951	1952	1964	1985	1993	1925	1989	DEC 1989
	MEAN OF EXTREME MINS.	105	-5.4	-0.5	5.7	19.8	31.5	43.6	52.0	50.3	35.0	22.4	8.3	-1.7	21.8
	NORMAL DRY BULB	30	27.6	32.4	39.8	48.8	58.7	69.6	75.1	73.2	64.0	51.8	37.4	29.6	50.7
	MEAN DRY BULB	104	28.2	31.1	38.5	48.0	58.8	68.5	74.9	73.7	63.7	52.8	38.4	30.3	50.6
	MEAN WET BULB	28	22.8	25.3	31.9	39.6	49.8	58.4	62.9	62.0	52.8	41.8	30.4	23.8	41.8
	MEAN DEW POINT	28	18.9	21.3	27.3	34.8	46.5	54.8	59.2	58.7	48.5	36.9	26.4	19.4	37.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	1.0	8.7	16.7	14.1	6.0	0.5	0.0	0.0	47.2
	MAXIMUM <= 32	30	8.8	6.1	2.7	0.4	0.0	0.0	0.0	0.0	0.0	0.3	3.2	6.8	28.3
MINIMUM <= 32	30	30.1	26.4	23.8	11.7	1.4	0.0	0.0	0.0	0.9	8.1	24.1	29.8	156.3	
MINIMUM <= 0	30	3.7	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.3	8.5	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1147	916	776	490	224	35	5	10	117	407	812	1084	6023
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	26	173	320	266	99	6	0	0	894
<b>RH</b>	NORMAL (PERCENT)	30	67	66	64	61	66	62	60	63	59	59	65	66	63
	HOURLY 05 LST	30	76	77	79	80	85	83	82	84	79	75	77	75	79
	HOURLY 11 LST	30	58	56	53	48	53	47	46	48	45	45	54	55	51
	HOURLY 17 LST	30	62	54	48	44	48	42	40	43	41	45	60	62	49
	HOURLY 23 LST	30	74	73	72	71	78	74	71	73	69	68	73	73	72
<b>S</b>	PERCENT POSSIBLE SUNSHINE	5	64	60	68	65	65	73	76	76	75	73	68	67	69
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	2.5	3.1	3.1	2.0	2.6	1.1	1.1	2.1	2.1	2.0	2.6	1.9	26.2
	THUNDERSTORMS	64	0.0	0.2	0.7	2.5	7.3	9.8	10.7	8.7	3.8	1.5	0.2	0.1	45.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	1	4.8	5.2	3.6	5.6	3.2	3.0	3.2	4.0	2.8	2.8	3.2	2.8	3.7
	MIDNIGHT-MIDNIGHT (OKTAS)	1	4.8	5.2	3.6	5.6	3.2	3.2	3.2	4.0	2.8	2.8	4.4	1.6	3.7
	MEAN NO. DAYS WITH: CLEAR	3	6.0	8.0	7.3	8.0	8.0	14.0	13.0	14.5	9.0	11.5	8.0	13.5	120.8
	PARTLY CLOUDY	3	3.7	3.7	4.0	3.0	5.3	4.0	5.0	4.5	3.0	3.0	3.5	2.0	
	CLOUDY	3	8.7	7.7	5.0	11.0	6.0	3.7	2.5	6.0	3.0	5.5	5.0	5.0	69.1
<b>PR</b>	MEAN STATION PRESSURE(IN)	28	26.24	26.23	26.18	26.15	26.17	26.20	26.26	26.28	26.27	26.25	26.24	26.24	26.23
	MEAN SEA-LEVEL PRES. (IN)	28	30.10	30.07	29.98	29.90	29.88	29.87	29.91	29.94	29.97	30.01	30.05	30.10	29.98
<b>WINDS</b>	MEAN SPEED (MPH)	28	11.9	12.2	13.4	14.1	13.2	12.2	11.3	10.7	11.5	11.8	11.9	11.7	12.2
	PREVAIL.DIR.(TENS OF DEGS)	36	34	34	34	34	17	16	17	17	17	17	34	34	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	53	51	62	60	67	58	64	60	52	61	53	59	67
	DIR. (TENS OF DEGS)		34	36	33	32	27	29	30	23	32	27	33	30	27
	YEAR OF OCCURRENCE		1996	2002	2000	1999	2011	2000	1993	1994	2010	1997	2005	2011	MAY 2011
	MAXIMUM 3-SECOND SPEED (MPH)	19	64	62	71	71	96	69	76	92	78	72	64	77	96
	DIR. (TENS OF DEGS)		34	35	32	31	31	32	01	24	34	29	33	30	31
YEAR OF OCCURRENCE		1996	2002	2000	1999	1994	2010	2004	1994	2010	1997	2005	2011	MAY 1994	
<b>PRECIPITATION</b>	NORMAL (IN)	30	0.43	0.44	1.20	1.51	3.46	3.30	3.54	2.49	1.12	1.05	0.82	0.40	19.76
	MAXIMUM MONTHLY (IN)	90	1.59	2.07	3.60	5.69	8.21	9.46	10.10	9.29	5.39	4.94	2.63	2.90	10.10
	YEAR OF OCCURRENCE		1988	1939	1981	1944	1981	1982	1985	1993	1973	1930	1946	1924	JUL 1985
	MINIMUM MONTHLY (IN)	90	0.00	T	0.03	T	0.31	0.10	0.30	0.13	0.01	T	T	0.00	0.00
	YEAR OF OCCURRENCE		1933	1970	1997	1963	1927	1976	1924	1964	1992	1988	1959	2002	DEC 2002
	MAXIMUM IN 24 HOURS (IN)	90	1.27	1.79	1.73	3.13	3.49	4.28	3.74	3.45	2.61	2.85	1.47	1.54	4.28
	YEAR OF OCCURRENCE		1988	1939	2006	1981	1972	1999	1985	1991	1940	1930	1975	1924	JUN 1999
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.6	4.4	6.9	7.6	10.6	8.9	9.9	8.1	5.4	4.4	5.1	4.0	79.9
PRECIPITATION >= 1.00	30	*	0.0	0.1	0.2	0.8	0.8	1.0	0.6	0.2	0.2	0.1	0.0	4.0	
<b>SNOWFALL</b>	NORMAL (IN)	30	7.2	5.4	9.1	5.0	0.6	0.0	0.0	0.0	0.4	3.0	5.8	5.3	41.8
	MAXIMUM MONTHLY (IN)	70	19.4	25.4	27.4	22.0	6.5	3.5	T	T	5.6	19.5	23.3	25.0	27.4
	YEAR OF OCCURRENCE		1988	1984	1940	1988	1990	1989	2009	2011	1985	1997	1983	2006	MAR 1940
	MAXIMUM IN 24 HOURS (IN)	70	14.0	11.2	15.2	13.0	6.5	3.5	T	T	5.6	19.3	15.1	11.7	19.3
	YEAR OF OCCURRENCE		1988	1984	1940	1988	1990	1989	2009	2011	1985	1997	1983	1979	OCT 1997
	MAXIMUM SNOW DEPTH (IN)	22	18	10	11	4	1	T	0	0	1	16	7	20	20
	YEAR OF OCCURRENCE		2007	1997	2006	2008	2008	1993			2000	1997	1994	2006	DEC 2006
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.9	1.5	2.5	1.3	0.3	0.0	0.0	0.0	0.1	0.7	1.6	1.4	11.3	

**PRECIPITATION (inches) 2011 GOODLAND (KGLD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	0.21	0.61	0.39	0.87	5.03	9.46	3.26	0.81	3.42	0.43	0.41	1.58	26.48
1983	0.29	0.87	2.20	1.76	2.43	2.39	3.68	1.39	0.43	0.15	1.78	0.26	17.63
1984	0.74	1.54	1.82	3.35	1.51	3.43	3.24	1.15	0.22	3.25	0.28	0.61	21.14
1985	0.43	0.25	0.33	1.03	4.56	0.71	10.10	0.70	1.74	1.16	0.51	0.44	21.96
1986	0.00	0.44	0.76	1.27	3.37	3.78	1.38	0.84	1.30	1.61	0.50	0.11	15.36
1987	0.34	1.01	2.50	0.48	3.54	5.39	2.96	0.50	1.52	0.03	1.01	0.46	19.74
1988	1.59	0.24	0.41	1.99	4.82	1.85	3.44	3.47	2.19	T	0.39	0.47	20.86
1989	0.23	0.14	0.26	0.89	2.76	8.18	1.09	2.84	1.06	0.32	0.05	0.22	18.04
1990	0.70	0.44	1.63	0.76	4.14	1.74	4.06	1.97	1.49	0.86	1.47	0.14	19.40
1991	0.24	0.11	1.08	0.92	4.03	5.36	3.29	4.07	0.76	0.88	1.32	1.18	23.24
1992	0.20	0.50	1.91	0.01	1.38	6.70	4.03	5.59	0.01	0.90	0.52	0.18	21.93
1993	0.31	0.73	0.81	0.42	2.91	1.94	7.96	9.29	0.30	2.33	0.93	0.01	27.94
1994	0.38	0.10	0.27	2.96	1.53	2.10	2.95	1.58	0.45	1.81	1.26	0.45	15.84
1995	0.36	0.22	1.00	2.40	4.87	3.95	4.19	1.06	1.55	0.77	0.36	0.13	20.86
1996	0.30	0.02	0.24	1.22	4.54	1.38	6.65	3.40	0.70	0.56	0.14	0.04	19.19
1997	0.17	0.88	T	0.76	1.94	2.18	2.96	5.29	0.75	2.56	0.64	0.54	18.67
1998	0.07	0.68	0.16	0.92	1.69	1.63	7.20	1.69	0.35	1.69	2.11	0.12	18.31
1999	0.45	0.12	0.89	3.17	2.68	5.50	1.30	4.87	0.84	0.02	0.14	0.31	20.29
2000	0.26	0.72	2.33	1.22	0.50	2.10	3.32	2.59	0.89	4.24	0.30	0.11	18.58
2001	0.91	0.53	0.56	0.74	2.86	0.86	6.09	0.86	1.69	0.45	0.88	0.63	17.06
2002	0.30	0.24	0.41	0.84	1.03	1.67	0.41	2.20	1.29	1.44	0.06	0.00	9.89
2003	0.18	0.65	1.22	1.71	2.34	4.93	1.12	0.52	0.36	0.07	0.06	0.71	13.87
2004	0.06	1.02	0.29	2.97	0.82	3.66	4.04	1.06	3.23	2.08	2.10	0.18	21.51
2005	0.09	0.25	0.25	2.12	2.94	2.63	1.47	2.77	0.33	2.61	0.50	0.12	16.08
2006	0.51	0.07	2.00	0.56	3.96	4.51	1.19	5.40	1.03	2.73	0.06	2.79	24.81
2007	0.54	0.44	2.23	2.44	0.81	0.98	1.08	3.63	1.11	0.63	0.17	1.04	15.10
2008	0.12	0.49	0.32	1.11	1.21	1.03	2.88	6.01	1.95	4.28	0.83	0.19	20.42
2009	0.11	0.63	0.44	2.60	3.12	3.84	2.69	1.83	3.55	2.78	0.57	0.50	22.66
2010	0.18	0.60	1.75	2.16	2.83	3.21	3.88	2.66	1.64	0.23	0.17	0.15	19.46
2011	0.39	0.42	0.80	2.24	3.45	2.16	3.22	3.36	0.38	2.16	0.31	0.41	19.30
POR= 104 YRS	0.34	0.47	1.03	1.60	2.83	2.91	2.88	2.48	1.36	1.15	0.60	0.47	18.12

WBAN : 23065

**AVERAGE TEMPERATURE (°F) 2011 GOODLAND (KGLD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	25.7	28.4	40.3	47.0	59.0	64.6	74.5	74.7	64.5	52.4	37.5	31.8	50.0
1983	31.0	36.5	38.8	44.1	54.8	66.4	78.9	82.6	68.4	53.0	37.8	14.6	50.6
1984	25.3	34.1	36.0	42.6	58.5	67.8	74.3	75.0	61.8	48.6	41.0	30.0	49.6
1985	25.1	28.1	42.0	53.3	62.2	69.1	76.7	73.3	61.0	50.6	30.8	26.5	49.9
1986	38.9	33.9	46.2	52.3	59.5	71.7	77.2	73.6	66.2	52.0	39.0	32.9	53.6
1987	31.6	37.5	37.5	51.8	62.6	71.3	76.1	72.5	64.5	52.4	39.7	30.2	52.3
1988	23.8	31.5	39.0	48.5	60.9	75.1	76.1	75.9	64.7	52.7	40.9	34.4	52.0
1989	34.0	22.7	40.8	51.4	60.3	66.1	75.6	72.7	63.4	53.5	42.0	25.9	50.7
1990	32.7	31.7	41.5	50.3	56.9	74.4	74.1	74.2	68.6	53.8	42.7	25.4	52.2
1991	26.1	40.0	41.6	49.7	62.3	72.9	75.7	73.2	65.8	52.7	35.6	33.8	52.5
1992	31.3	40.0	43.8	52.6	60.3	66.7	71.5	68.7	64.2	52.1	32.7	22.8	50.6
1993	22.8	22.5	39.6	46.6	58.3	67.5	72.6	70.4	59.6	49.9	33.5	32.9	48.0
1994	28.1	26.0	43.2	48.2	62.5	73.2	72.3	74.1	66.2	52.3	35.6	33.0	51.2
1995	31.9	36.2	39.4	44.6	51.9	66.4	73.6	77.1	62.7	50.8	42.4	31.9	50.7
1996	25.5	33.8	35.3	49.5	59.0	70.3	73.6	71.2	61.8	51.8	35.2	31.7	49.9
1997	27.3	30.3	42.9	43.5	57.2	69.3	74.7	71.3	66.2	50.9	35.9	29.0	49.9
1998	31.9	36.0	36.5	47.2	62.3	67.3	75.3	73.1	69.4	52.5	42.9	30.1	52.0
1999	32.6	39.3	40.1	46.1	58.3	67.9	77.1	73.4	60.4	52.9	46.4	34.7	52.4
2000	31.6	38.8	40.8	50.6	62.6	69.0	76.7	77.3	65.8	53.2	31.1	26.3	52.0
2001	29.6	28.0	39.3	52.5	60.4	71.3	78.9	75.3	65.5	53.3	43.3	33.8	52.6
2002	31.5	34.6	33.9	51.8	59.2	76.9	78.7	74.7	65.5	46.1	40.7	34.7	52.4
2003	33.0	28.8	42.7	52.3	59.8	67.1	80.2	75.8	63.2	56.9	37.7	32.9	52.5
2004	30.6	31.7	46.0	50.2	62.8	67.4	73.0	69.8	67.8	53.4	38.7	34.7	52.2
2005	30.0	36.6	41.6	49.2	59.9	70.5	77.9	73.6	68.6	53.7	43.5	31.0	53.0
2006	38.7	32.0	39.9	53.4	62.6	73.1	78.5	74.1	59.5	50.0	40.0	30.8	52.7
2007	18.7	25.0	47.3	47.1	61.3	70.1	76.8	77.4	66.9	54.5	40.7	26.6	51.0
2008	27.8	31.9	40.4	47.9	57.7	69.7	77.5	72.1	63.3	52.2	41.7	28.2	50.9
2009	32.6	36.4	40.7	47.9	59.8	68.5	73.1	71.7	62.3	43.7	42.8	23.3	50.2
2010	29.9	28.8	41.6	50.4	55.8	72.1	76.6	75.7	67.2	54.7	38.5	31.6	51.9
2011	28.6	28.8	39.9	49.7	56.6	70.9	79.3	77.0	62.2	54.2	40.0	29.7	51.4
POR= 104 YRS	28.2	31.1	38.5	48.0	58.8	68.5	74.9	73.7	63.7	52.8	38.4	30.3	50.6

**HEATING DEGREE DAYS (base 65°F) 2011 GOODLAND (KGLD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	1	12	106	383	820	1022	1049	791	805	623	326	72	6010
1983-84	0	0	76	366	807	1556	1226	892	893	664	208	39	6727
1984-85	0	0	178	503	712	1079	1232	1026	704	351	129	48	5962
1985-86	0	4	237	439	1020	1188	804	867	577	375	185	9	5705
1986-87	0	2	58	399	773	987	1026	762	845	410	111	10	5383
1987-88	14	24	76	396	749	1072	1270	966	797	487	180	8	6039
1988-89	3	4	102	375	713	942	953	1180	745	435	189	70	5711
1989-90	0	1	152	361	685	1203	994	928	723	444	266	9	5766
1990-91	13	1	66	347	662	1224	1203	694	718	453	138	0	5519
1991-92	5	8	87	396	878	964	1039	716	650	379	188	38	5348
1992-93	8	31	88	397	963	1301	1301	1184	779	541	218	57	6868
1993-94	0	29	188	474	938	987	1135	1086	669	510	119	1	6136
1994-95	3	7	82	385	873	987	1018	800	788	603	397	65	6008
1995-96	14	3	167	446	671	1017	1219	898	914	460	227	18	6054
1996-97	4	0	151	419	886	1025	1163	965	679	637	251	25	6205
1997-98	5	13	76	460	865	1111	1019	806	876	527	145	81	5984
1998-99	1	0	33	380	660	1076	999	713	766	562	219	45	5454
1999-00	3	3	190	373	550	930	1026	752	740	427	145	41	5180
2000-01	0	0	126	373	1011	1194	1091	1029	788	377	182	41	6212
2001-02	0	0	87	370	646	960	1030	847	959	401	222	4	5526
2002-03	0	1	86	582	723	934	984	1006	683	385	196	40	5620
2003-04	0	6	122	277	812	985	1056	960	581	438	138	57	5432
2004-05	22	23	57	358	783	932	1080	789	719	468	208	28	5467
2005-06	1	1	46	363	637	1047	809	916	771	343	157	3	5094
2006-07	0	10	180	478	718	1052	1426	1114	543	532	132	28	6213
2007-08	0	0	67	342	722	1182	1145	954	758	509	250	21	5950
2008-09	0	3	97	389	693	1131	996	795	748	511	197	39	5599
2009-10	1	8	123	654	656	1284	1079	1006	721	427	313	18	6290
2010-11	0	0	41	315	788	1029	1122	1006	767	455	278	14	5815
2011-	0	0	124	345	740	1086							

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**COOLING DEGREE DAYS (base 65°F) 2011 GOODLAND (KGLD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	1	17	71	301	320	98	0	0	0	808
1983	0	0	0	0	17	122	438	551	184	3	0	0	1315
1984	0	0	0	0	12	133	292	316	87	0	0	0	840
1985	0	0	0	6	47	178	372	267	127	1	0	0	998
1986	0	0	0	3	21	213	387	271	104	1	0	0	1000
1987	0	0	0	18	44	205	364	264	69	9	0	0	973
1988	0	0	0	0	59	315	355	350	100	0	0	0	1179
1989	0	0	0	30	49	109	334	248	107	11	0	0	888
1990	0	0	0	9	25	296	305	292	180	5	0	0	1112
1991	0	0	0	3	63	244	342	268	117	23	0	0	1060
1992	0	0	0	10	48	95	216	151	70	5	0	0	595
1993	0	0	0	0	17	137	243	203	32	13	0	0	645
1994	0	0	0	9	49	253	235	298	126	0	0	0	970
1995	0	0	0	0	0	115	286	388	102	16	0	0	907
1996	0	0	0	3	49	182	274	199	60	15	0	0	782
1997	0	0	0	0	16	163	314	215	120	31	0	0	859
1998	0	0	0	0	68	155	327	259	173	0	0	0	982
1999	0	0	0	0	17	139	385	270	60	6	0	0	877
2000	0	0	0	3	80	168	372	388	157	13	0	0	1181
2001	0	0	0	8	46	239	439	322	112	14	0	0	1180
2002	0	0	0	12	50	370	431	307	106	3	0	0	1279
2003	0	0	0	8	42	110	477	349	76	33	0	0	1095
2004	0	0	0	2	77	136	278	179	148	4	0	0	824
2005	0	0	0	1	58	198	409	272	159	17	0	0	1114
2006	0	0	0	2	92	254	426	300	21	19	0	0	1114
2007	0	0	0	2	26	185	373	393	131	22	0	0	1132
2008	0	0	0	0	32	167	394	227	54	1	0	0	875
2009	0	0	0	3	40	151	259	225	50	0	0	0	728
2010	0	0	2	0	34	235	368	339	113	3	0	0	1094
2011	0	0	0	2	24	199	450	377	47	17	0	0	1116

**SNOWFALL (inches) 2011 GOODLAND (KGLD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.2	2.4	14.4	4.3	6.8	13.8	6.3	0.0	0.0	48.2
1983-84	0.0	0.0	T	0.0	23.3	7.2	12.1	17.2	20.0	22.0	T	0.0	101.8
1984-85	0.0	0.0	0.7	6.4	1.1	6.7	6.7	7.5	3.5	T	1.0	0.0	33.6
1985-86	0.0	0.0	5.6	0.0	5.6	6.8	0.0	7.5	5.8	0.7	0.0	0.0	32.0
1986-87	0.0	0.0	0.0	5.5	4.6	1.5	6.1	7.5	21.5	4.5	0.0	0.0	51.2
1987-88	0.0	0.0	0.0	0.0	7.2	9.0	19.4	3.6	7.3	13.4	2.2	0.0	62.1
1988-89	0.0	0.0	0.0	0.0	3.1	2.1	1.0	2.2	2.8	12.5	T	3.5	27.2
1989-90	0.0	0.0	0.0	1.0	0.3	7.0	10.3	6.3	5.8	1.4	6.5	0.0	38.6
1990-91	0.0	0.0	0.0	6.1	13.4	2.1	4.2	0.1	11.4	T	1.4	T	38.7
1991-92	T	0.0	0.0	7.5	3.3	8.3	1.9	0.5	1.3	T	0.0	T	22.8
1992-93	T	0.0			10.5	4.3	11.3	12.5	5.8	0.3		T	
1993-94	T	0.0	0.0	1.3	6.2	0.7	10.8	3.1	1.0	20.4	T	T	43.5
1994-95	T	T	0.0	0.0	10.1	2.5	1.5	5.7	15.1	0.0	0.0	T	34.9
1995-96	0.0	0.0	5.8	5.2	1.7	0.8	13.5	1.0	2.9	4.3	T	0.0	35.2
1996-97	T	T	0.0	T	0.5	0.6	3.0	17.0	T	2.3	T	T	23.4
1997-98	T	0.0	0.0	19.5	6.1	7.2	2.0	1.0	1.7	0.0	T	T	37.5
1998-99	0.0	T	0.0	T	5.0	5.9	3.5	1.7	11.5	3.6	T	T	31.2
1999-00	T	0.0	0.0	0.0	1.8	1.6	2.8	4.9	8.6	T	0.0	0.0	19.7
2000-01	T	0.0	0.5	T	2.8	2.8	14.2	10.7	2.5	T	T	T	33.5
2001-02	T	0.0	T	0.3	T	3.0	5.7	2.5	8.7	T	T	0.0	20.2
2002-03	0.0	T	0.0				3.4	9.5	1.7	2.1	T	0.0	
2003-04	T	0.0	0.0	0.0	1.3	7.8	1.7	7.5	1.7	4.1	T	T	24.1
2004-05	T	T	T	0.0	3.7	2.6	0.7	2.5	2.3	2.4	T	T	14.2
2005-06	T	T	0.0	0.0	3.1	2.2	4.2	0.7	13.6	0.1	2.5	T	26.4
2006-07	0.0	T	0.0	T	1.5	25.0	9.8	7.0	T	5.4	0.0	0.0	48.7
2007-08	0.0	T	0.0	T	3.3	14.2	2.0	8.3	1.9	6.0	0.7	T	36.4
2008-09	0.0	0.0	T	2.0	2.1	2.6	3.0	2.0	5.8	3.2	0.0	T	20.7
2009-10	T	0.0	T	5.4	4.9	12.2	0.8	7.9	3.9	0.4	T	T	35.5
2010-11	0.0	0.0	0.0	0.0	0.4	2.5	4.8	6.4	8.0	3.1	T	T	25.2
2011-	0.0	T	0.0	0.2	3.4	7.8							
POR= 89 YRS	T	T	0.2	1.7	3.9	5.4	4.7	5.1	8.0	3.8	0.5	0.1	33.4

WBAN : 23065

**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. 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.</p>	<p>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 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 HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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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# 2011 GOODLAND KANSAS (KGLD)

Goodland is situated on an intermediate plain with few native trees. The terrain rises from east to west with only minor variations from north to south. The rate of rise is about 1,600 feet per 150 miles east of Goodland and about 2,500 feet per 150 miles west. This gradual slope in terrain makes conditions favorable for upslope fog, low clouds, and drizzle with easterly winds.

This is a typical steppe climate with wide variations in precipitation from year to year. Evaporation generally exceeds precipitation during the summer months. The number of subnormal years of precipitation nearly equals the above normal years. The mean monthly rainfall increases in the spring to a maximum in June. General storms provide the main source of precipitation during the spring months, while thunderstorms are the major factor during the summer months. Inadequate moisture received from March through June, often results in drought conditions throughout the summer months with thunderstorms providing only local relief. The frequency of thunderstorms increases to a maximum in July with a marked decrease in September. Hail is most frequent in May and June. Winds during thunderstorms have been recorded with gusts up to 80 mph.

Snow is an important factor in the production of winter wheat, and residual soil moisture often offsets the effects of subnormal spring precipitation. When snow is accompanied by strong winds it can become a dangerous enemy. As little as 1 inch of snow accompanied by strong winds can result in serious blocking of roads and highways. The heaviest snowfall is most likely to occur in March, although heavy snows have been recorded in every month from October through May. Snow may cover the ground about one third of the time from November through March.

Temperatures are typical of continental climates with January normally the coldest month and July the warmest. Winters are often modified by persistent foehn winds but polar outbreaks have been known to drop the temperature as much as 70 degrees in a 24-hour period. Low relative humidity during the summer months makes most nights comfortable even in the hottest weather.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 7 and the average last occurrence in the spring is May 4. The growing season is 156 days.

# Station History

GOODLAND, KS

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
GOODLAND RENNER FIELD	2000-09-27	2004-06-23	39° 22'	-101° 41'	3656		ASOS, COOP, WXSVC
GOODLAND MUNICIPAL AP	1949-01-01	1966-04-01	39° 22'	-101° 42'	3645		AIRWAYS, COOP
GOODLAND RENNER FIELD	1966-04-01	1973-01-01	39° 22'	-101° 42'	3645		AIRWAYS, COOP
GOODLAND RENNER FIELD	1973-01-01	1992-09-01	39° 22'	-101° 42'	3645		COOP, WXSVC
GOODLAND RENNER FIELD	2009-05-01	2009-06-12	39° 22'	-101° 41'	3656		ASOS, COOP, WXSVC
RENNER FIELD	1928-01-01	1928-12-31	39° 21'	-101° 42'			SYNOPTIC
GOODLAND MUNICIPAL AP	1947-12-01	1949-01-01	39° 22'	-101° 42'	3658		AIRWAYS, COOP
GOODLAND MUNICIPAL AP	1944-01-01	1947-12-01	39° 22'	-101° 42'			AIRWAYS
RENNER FIELD	1938-01-01	1943-12-14	39° 21'	-101° 42'			SYNOPTIC
GOODLAND RENNER FIELD	1992-09-01	2000-09-27	39° 22'	-101° 41'	3645	.3 MI ENE	ASOS, COOP, WXSVC
GOODLAND RENNER FIELD	2009-06-12	Present	39° 22'	-101° 41'	3656		ASOS, COOP, WXSVC
RENNER FIELD	1920-03-01	1926-12-31	39° 21'	-101° 42'			SYNOPTIC
GOODLAND MUNICIPAL AP	1943-12-14	1944-01-01	39° 21'	-101° 42'			SYNOPTIC
GOODLAND RENNER FIELD	2004-06-23	2009-05-01	39° 22'	-101° 41'	3656		ASOS, COOP, WXSVC
RENNER FIELD	1929-07-01	1937-01-31	39° 21'	-101° 42'			SYNOPTIC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1994-10-20	1995-07-19	DAILY	2400	TB	RCRD	
MAX/MINTEM	1995-07-19	1995-08-10	ONCE DAILY	0500	PALMER		
EVAP	1995-08-10	1998-03-18	DAILY	0500	SIXS		
PRECIP	1998-03-18	2004-06-23	HOURLY	2400	TB	RCRD	
MAX/MINTEM	1998-03-18	2004-06-23	ONCE DAILY	0500	PALMER		
TEMP	2004-06-23	2005-12-01	DAILY	2400	HYGR		
PRECIP	2005-12-01	2006-06-23	DAILY	2400			
PRECIP	2009-05-01	Present	DAILY	2400	PCPNX		
MAX/MINTEM	2009-05-01	Present	ONCE DAILY - AM	0500	SOILX		
PRECIP	1995-08-10	1998-03-18	HOURLY	2400	TB	RCRD	
PRECIP	1998-03-18	2004-06-23	DAILY	2400	TB	RCRD	
PRECIP	2004-06-23	2005-12-01	HOURLY	2400	TB	RCRD	
PRECIP	1920-03-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1994-10-20	1995-07-19	HOURLY	2400	TB	RCRD	
EVAP	1995-07-19	1995-08-10	DAILY	0500	PAN		
PRECIP	1982-01-01	1987-09-16	DAILY	2400	UNIV	RCRD	
TEMP	1987-09-16	1992-09-01	DAILY	2400	MXMN		
PRECIP	1992-09-01	1994-10-20	HOURLY	2400	TB	RCRD	
PRECIP	1995-07-19	1995-08-10	HOURLY	2400	TB	RCRD	
PRECIP	2006-06-23	2009-05-01	DAILY	2400	PCPNX		
PRECIP	1987-09-16	1992-09-01	DAILY	2400	UNIV	RCRD	
TEMP	1992-09-01	1994-10-20	DAILY	2400	HYGR		
PRECIP	1995-08-10	1998-03-18	DAILY	2400	TB	RCRD	
TEMP	1995-08-10	1998-03-18	DAILY	2400	HYGR		
EVAP	1995-08-10	1998-03-18	DAILY	0500	PAN		
MAX/MINTEM	1995-08-10	1998-03-18	ONCE DAILY	0500	PALMER		
TEMP	1998-03-18	2004-06-23	DAILY	2400	HYGR		
EVAP	1998-03-18	2001-11-15	DAILY	0500	EVAP-C		
TEMP	2009-05-01	Present	DAILY	2400	HYGR		
TEMP	1920-03-01	1982-01-01	DAILY	2400			
TEMP	1982-01-01	1987-09-16	DAILY	2400			
EVAP	1998-03-18	1998-05-05	DAILY	0500	SIXS		
PRECIP	2005-12-01	2006-06-23	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2009-05-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1987-09-16	1992-09-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1992-09-01	1994-10-20	DAILY	2400	TB	RCRD	
MAX/MINTEM	1994-10-20	1995-07-19	ONCE DAILY	0500	PALMER		

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>

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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](http://www.ncdc.noaa.gov)



# Element History

GOODLAND, KS

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment	Equipment Modifications	Equipment Exposure
PRECIP	1995-07-19	1995-08-10	DAILY	2400	TB	RCRD	
PRECIP	2004-06-23	2005-12-01	DAILY	2400			
TEMP	2006-06-23	2009-05-01	DAILY	2400	HYGR		
PRECIP	2006-06-23	2009-05-01	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1982-01-01	1987-09-16	HOURLY	2400	UNIV	RCRD	
TEMP	1994-10-20	1995-07-19	DAILY	2400	HYGR		
MAX/MINTEM	2004-06-23	2005-12-01	ONCE DAILY	0500	PALMER		
MAX/MINTEM	2005-12-01	2006-06-23	ONCE DAILY	0500	PALMER		
TEMP	2005-12-01	2006-06-23	DAILY	2400	HYGR		
MAX/MINTEM	2006-06-23	2009-05-01	ONCE DAILY	0500	PALMER		