

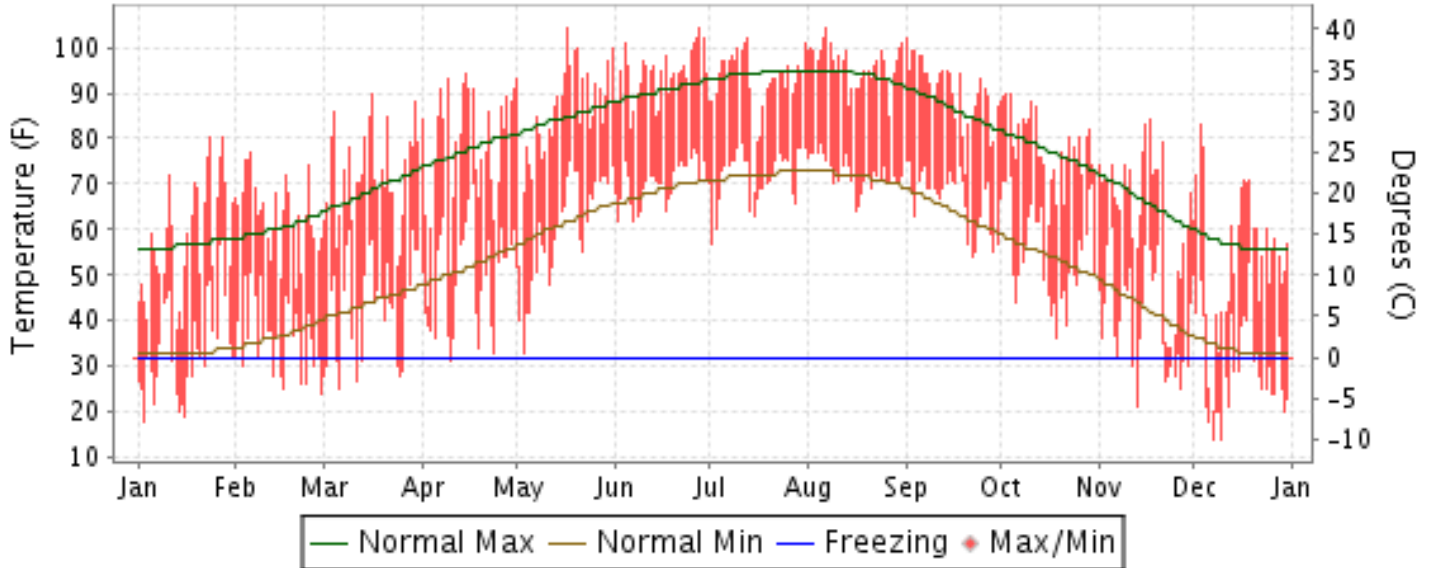


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

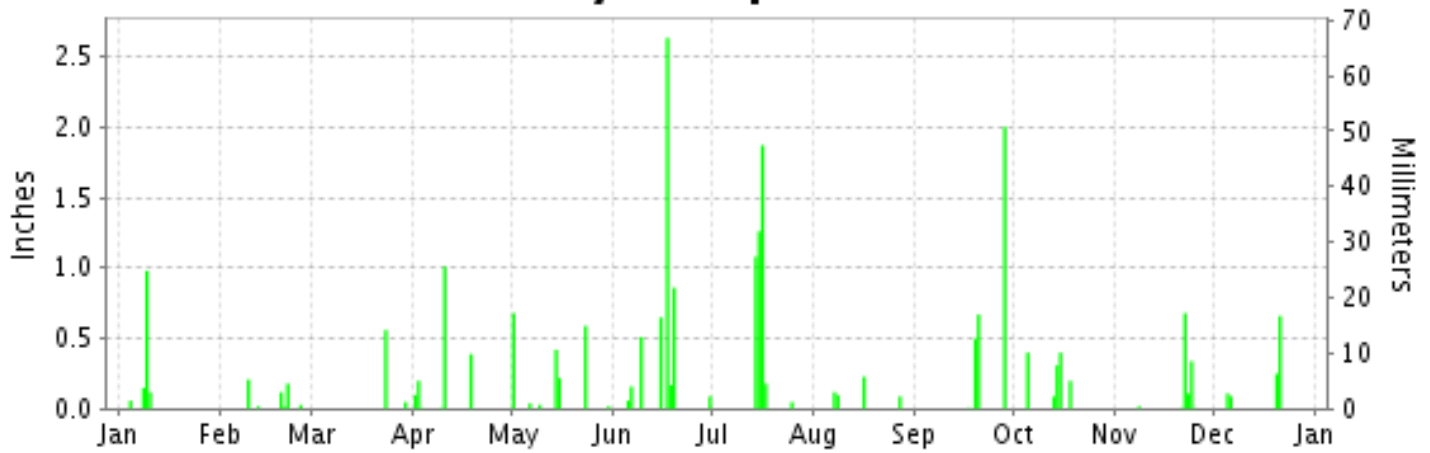
ISSN 0198-4888

ABILENE, TEXAS (KABI)

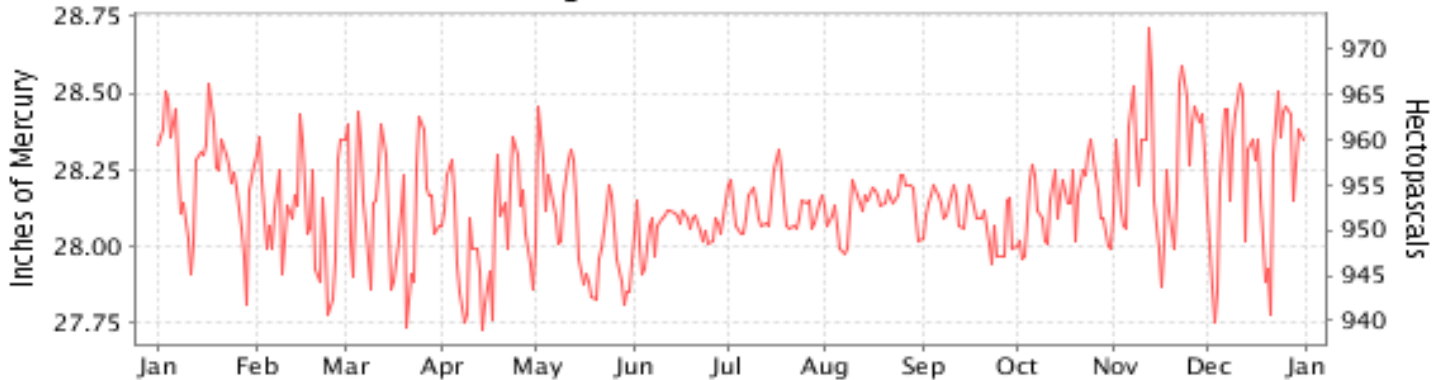
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

ABILENE (KABI)

LATITUDE: 32° 24'N LONGITUDE: 99° 40'W ELEVATION (FT): GRND: 1790 BARO: 1787 TIME ZONE: CENTRAL (UTC -6) WBAN: 13962

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.1	63.3	71.9	78.0	85.9	94.1	92.7	96.2	90.4	78.2	63.9	54.4	77.3	
	HIGHEST DAILY MAXIMUM	80	77	90	94	104	104	102	104	102	90	84	83	104	
	DATE OF OCCURRENCE	28+	06	16	15	17	28	13	07	01	04+	17	03	AUG 07	
	MEAN DAILY MINIMUM	34.2	36.5	43.4	49.7	60.1	70.4	71.7	72.5	66.8	55.2	40.4	30.2	52.6	
	LOWEST DAILY MINIMUM	18	24	25	31	33	62	57	64	54	36	21	14	14	
	DATE OF OCCURRENCE	03	28	06	10	03	07+	02	16	22	19	13	10+	DEC 10+	
	AVERAGE DRY BULB	46.1	49.9	57.7	63.9	73.0	82.2	82.2	84.3	78.6	66.7	52.2	42.3	64.9	
	MEAN WET BULB	39.2	41.5	46.4	52.9	62.3	69.3	69.1	69.5	66.0	57.3		36.5		
	MEAN DEW POINT	30.7	31.0	33.5	44.1	54.8	62.6	61.4	62.1	58.9	50.6		29.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	1	7	12	24	25	29	19	2	0	0	0	119
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	2	2	2	
MINIMUM <= 32°	17	11	9	1	0	0	0	0	0	0	10	20	68	68	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	584	416	261	155	50	0	0	0	0	79	393	698	2636	
	COOLING DEGREE DAYS	6	0	40	130	305	524	541	608	415	140	13	1	2723	
RH	MEAN (PERCENT)	62	54	46	56	58	55	54	51	55	62	60	65	57	
	HOUR 00 LST	68	64	51	64	67	57	60	57	62	69	67	71	63	
	HOUR 06 LST	77	73	62	77	81	80	70	70	75	75	74	74	74	
	HOUR 12 LST	54	41	40	47	46	46	45	41	45	51	50	56	47	
	HOUR 18 LST	47	37	29	37	39	36	40	35	39	50	49	56	41	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	0	1	2	2	6	5	1	3	0	0	0	0	20	
PR	MEAN STATION PRESS. (IN.)	28.24	28.11	28.14	28.04	28.06	28.06	28.13	28.14	28.10	28.14	28.28	28.24	28.14	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	29.98	30.00	29.88	29.88	29.87	29.94	29.94	29.91	29.98	30.17	30.14	29.99	
WINDS	RESULTANT SPEED (MPH)	1.9	2.0	3.7	6.6	7.8	7.7	5.5	5.8	5.0	5.2	3.6	1.8	4.4	
	RES. DIR. (TENS OF DEGS.)	24	19	19	17	17	16	15	15	15	17	18	24	17	
	MEAN SPEED (MPH)	9.1	11.4	12.6	14.2	13.2	11.3	8.8	8.5	8.3	10.1	10.5	9.1	10.6	
	PREVAIL.DIR.(TENS OF DEGS.)	20	17	17	16	16	17	16	16	15	17	16	19	17	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	37	38	38	45	60	29	30	30	38	30	35	60	
	DIR. (TENS OF DEGS.)	27	32	35	34	01	34	10	34	33	35	36	20	34	
	DATE OF OCCURRENCE	29	25	23	18	23	17	17	08	28	18	21	19	JUN 17	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	45	48	52	47	62	70	40	37	37	46	41	45	70	
DIR. (TENS OF DEGS.)	26	32	35	35	04	36	08	06	34	35	18	21	36		
DATE OF OCCURRENCE	29	25	05	18	23	17	31	16	28	18	03	19	JUN 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.31	0.58	0.61	1.72	2.00	5.13	4.44	0.54	3.18	1.40	1.17	1.11	23.19	
	GREATEST 24-HOUR (IN.)	0.99	0.21	0.56	1.02	0.68	2.80	2.30	0.23	2.00	0.40	0.79	0.91	2.80	
	DATE OF OCCURRENCE	08-09	09	23	09-10	01	17-18	15-16	16	28	05	22-23	20-21	JUN 17-18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	6	2	6	7	8	5	4	4	5	6	4	61	
PRECIPITATION 0.10	3	3	1	4	4	6	4	3	3	4	3	3	41		
PRECIPITATION 1.00	0	0	0	1	0	1	3	0	1	0	0	0	6		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.0	T	T	T	T	T	0.0	0.0	0.0	0.0	0.5	0.8	2.3	
	GREATEST 24-HOUR (IN.)	1.0	T	T	T	T	T	0.0	0.0	0.0	0.0	0.5	0.6	1.0	
	DATE OF OCCURRENCE	04	25	23	10+	14	17					22	05	JAN 04	
	MAXIMUM SNOW DEPTH (IN.)	1	0	0	0	0	0	0	0	0	0	0	1	1	
	DATE OF OCCURRENCE	04											08+	DEC 08+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	1	0	0	0	0	0	0	0	0	0	0	0	1		

NORMALS, MEANS, AND EXTREMES ABILENE (KABI)

LATITUDE:
32° 24'N

LONGITUDE:
99° 40'W

ELEVATION (FT):
GRND: 1790 BARO: 1787

TIME ZONE:
CENTRAL (UTC -6)

WBAN: 13962

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	56.8	60.5	68.6	77.3	84.6	90.5	94.2	94.0	86.8	77.3	66.3	56.9	76.2
	MEAN DAILY MAXIMUM	66	56.0	60.5	68.8	77.8	84.5	91.3	94.9	94.5	87.1	77.6	65.8	57.7	76.4
	HIGHEST DAILY MAXIMUM	74	89	93	97	104	109	109	110	109	107	103	92	89	110
	YEAR OF OCCURRENCE		1943	2009	1974	2012	2011	1994	1978	1943	2000	1979	1980	1955	JUL 1978
	MEAN OF EXTREME MAXS.	66	77.7	81.6	87.4	92.8	97.9	100.2	101.8	101.8	97.8	91.6	82.8	77.8	90.9
	NORMAL DAILY MINIMUM	30	33.0	36.7	44.1	51.9	61.4	68.5	72.0	71.6	64.2	54.3	43.0	33.7	52.9
	MEAN DAILY MINIMUM	66	32.1	36.2	43.5	52.6	61.2	68.9	72.5	71.8	64.6	54.3	42.4	34.1	52.9
	LOWEST DAILY MINIMUM	74	-9	-7	7	25	33	47	55	50	35	23	14	-7	-9
	YEAR OF OCCURRENCE		1947	1985	1943	1973	2013	1964	1940	1992	1942	1993	1976	1989	JAN 1947
	MEAN OF EXTREME MINS.	66	14.9	18.7	24.2	34.6	45.5	58.5	65.1	63.3	49.2	37.2	25.0	17.3	37.8
	NORMAL DRY BULB	30	44.9	48.6	56.4	64.6	73.0	79.5	83.1	82.8	75.5	65.8	54.6	45.3	64.5
	MEAN DRY BULB	66	44.1	48.3	56.1	65.2	72.9	80.2	83.7	83.2	75.8	65.9	54.1	45.9	64.6
	MEAN WET BULB	29	35.5	39.5	45.2	52.2	61.3	67.0	68.2	67.7	62.9	54.6	44.8	36.4	52.9
	MEAN DEW POINT	29	31.6	34.5	41.4	47.9	58.5	64.9	65.2	64.9	60.2	51.8	41.4	33.0	49.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.1	0.6	2.1	8.3	17.4	25.1	24.3	10.7	1.3	0.1	0.0	90.0
	MAXIMUM <= 32	30	1.1	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.0
	MINIMUM <= 32	30	14.9	8.3	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.2	4.4	13.6	45.3
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	624	464	298	111	16	1	0	0	11	93	329	612	2559
	NORMAL COOLING DEG. DAYS	30	1	4	29	99	264	435	561	552	326	118	19	1	2409
RH	NORMAL (PERCENT)	30	61	60	56	55	61	61	55	55	60	62	63	64	59
	HOURLY 00 LST	30	67	66	62	63	69	67	60	62	68	68	71	68	66
	HOURLY 06 LST	30	73	73	71	73	80	80	74	75	78	77	77	74	75
	HOURLY 12 LST	30	53	52	47	45	51	51	46	47	52	52	53	54	50
	HOURLY 18 LST	30	49	47	40	39	44	44	39	40	47	48	53	53	45
S	PERCENT POSSIBLE SUNSHINE	49	62	64	70	72	70	78	80	77	70	72	67	63	70
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	1.2	1.2	0.8	0.5	0.4	0.1	0.1	0.1	0.4	0.6	1.0	1.3	7.7
	THUNDERSTORMS	66	0.5	1.2	2.7	4.4	7.0	5.7	4.4	5.0	3.3	2.8	1.3	0.7	39.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	57	4.5	4.6	4.3	4.1	4.4	3.6	3.5	3.5	3.6	3.4	3.8	4.2	4.0
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.1	4.1	3.8	3.7	3.9	3.3	2.9	3.2	3.4	3.0	3.5	3.8	3.6
	MEAN NO. DAYS WITH: CLEAR	58	11.1	9.9	11.4	11.7	9.9	12.6	14.1	14.1	13.5	14.9	13.2	11.7	148.1
	PARTLY CLOUDY	58	6.1	6.2	7.5	7.8	10.0	10.6	9.7	9.6	7.8	6.8	5.9	6.2	94.2
	CLOUDY	58	13.7	12.2	12.1	10.5	11.1	6.8	6.7	6.8	8.3	8.8	10.4	12.6	120.0
PR	MEAN STATION PRESSURE(IN)	30	28.23	28.18	28.11	28.06	28.05	28.06	28.12	28.13	28.14	28.16	28.20	28.22	28.14
	MEAN SEA-LEVEL PRES. (IN)	30	30.12	30.06	29.97	29.90	29.87	29.87	29.93	29.93	29.96	30.01	30.07	30.11	29.98
WINDS	MEAN SPEED (MPH)	30	10.8	11.5	12.6	13.0	12.1	11.3	9.9	8.9	9.1	10.3	10.9	10.5	10.9
	PREVAIL.DIR.(TENS OF DEGS)	34	36	36	17	17	17	17	17	17	17	19	19	21	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	40	46	40	55	52	60	48	55	43	45	45	43	60
	DIR. (TENS OF DEGS)		33	27	12	27	31	34	30	19	35	27	32	34	34
	YEAR OF OCCURRENCE		2008	2007	2011	1998	2010	2013	1998	1997	2001	2012	2006	2009	JUN 2013
	MAXIMUM 3-SECOND SPEED (MPH)	17	49	59	55	68	64	70	60	67	53	56	56	56	70
	DIR. (TENS OF DEGS)		32	27	35	27	30	36	29	19	01	27	28	24	36
YEAR OF OCCURRENCE		2008	2007	2008	1998	2010	2013	1998	1997	2010	2012	2005	2009	JUN 2013	
PRECIPITATION	NORMAL (IN)	30	1.02	1.36	1.74	1.64	3.18	3.56	1.87	2.59	2.24	2.98	1.41	1.23	24.82
	MAXIMUM MONTHLY (IN)	74	4.35	3.60	5.16	6.80	13.19	9.60	8.04	8.18	11.03	10.68	5.12	6.28	13.19
	YEAR OF OCCURRENCE		1968	1992	1979	1966	1957	1961	2002	1969	1974	1981	2004	1991	MAY 1957
	MINIMUM MONTHLY (IN)	74	T	0.00	0.03	T	0.15	T	T	0.00	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1999	1963	1961	1956	1994	2011	2000	1956	1952	1949	1972	AUG 2000
	MAXIMUM IN 24 HOURS (IN)	74	2.84	1.94	2.24	3.75	4.76	3.66	5.67	6.30	6.70	6.08	2.43	2.62	6.70
	YEAR OF OCCURRENCE		2010	1992	1998	1957	1990	1959	2002	1978	1961	1981	1975	1991	SEP 1961
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.7	5.4	6.0	5.0	7.7	7.0	5.1	5.9	5.8	6.6	4.6	5.1	68.9
PRECIPITATION >= 1.00	30	0.1	0.2	0.4	0.5	0.9	1.2	0.4	0.6	0.6	0.8	0.2	0.2	6.1	
SNOWFALL	NORMAL (IN)	30	1.5	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.1	4.7
	MAXIMUM MONTHLY (IN)	68	13.5	8.4	7.3	9.3	T	T	0.0	T	0.0	0.3	8.1	7.8	13.5
	YEAR OF OCCURRENCE		1973	1956	1970	1996	2013	2013	2011	1997		1993	1968	1983	JAN 1973
	MAXIMUM IN 24 HOURS (IN)	68	7.5	4.5	6.1	9.3	T	T	T	T	0.0	0.3	5.3	4.3	9.3
	YEAR OF OCCURRENCE		1973	1979	1970	1996	2013	2013	1995	1997		1993	1976	2004	APR 1996
	MAXIMUM SNOW DEPTH (IN)	59	22	13	9	0	0	0	0	0	0	0	7	11	22
	YEAR OF OCCURRENCE		1973	1963	1989								1976	1983	JAN 1973
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	1.4	

PRECIPITATION (inches) 2013 ABILENE (KABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.98	0.46	0.47	0.20	0.42	1.70	0.97	3.24	3.55	5.15	2.11	3.08	22.33
1985	0.53	1.50	2.86	0.90	4.03	1.78	1.71	3.66	1.28	2.43	1.56	0.03	22.27
1986	0.01	1.51	0.50	0.99	4.03	4.49	3.54	2.45	1.71	7.46	3.24	2.05	31.98
1987	0.54	3.55	1.55	0.87	4.58	1.86	1.91	4.17	2.12	0.21	1.16	4.55	27.07
1988	0.05	0.37	0.54	2.09	2.93	3.75	1.76	1.18	1.74	1.01	T	0.80	16.22
1989	0.54	3.08	1.72	0.71	3.07	9.53	1.01	2.53	4.09	0.97	0.20	0.21	27.66
1990	1.94	2.36	2.43	4.57	5.06	0.36	4.27	0.77	4.79	1.73	2.26	0.81	31.35
1991	2.71	0.14	0.51	1.65	1.07	8.05	2.24	1.85	5.99	2.47	0.32	6.28	33.28
1992	1.87	3.60	0.83	2.02	3.51	4.81	2.70	1.99	1.79	1.19	2.57	1.00	27.88
1993	0.91	1.23	1.03	0.84	2.01	3.80	0.25	1.82	2.42	3.19	0.40	0.90	18.80
1994	1.10	0.76	0.08	3.43	9.03	T	0.59	2.15	3.80	3.07	3.39	1.04	28.44
1995	1.25	0.43	1.53	1.13	5.83	1.67	2.07	5.25	2.41	0.99	0.32	0.23	23.11
1996	0.70	0.04	1.26	2.56	1.93	2.61	1.92	6.92	6.02	2.56	2.44	T	28.96
1997	0.09	3.49	0.98	2.96	1.52	6.86	0.28	4.16	0.04	2.54	1.00	3.16	27.08
1998	1.17	0.68	3.19	0.35	0.72	1.97	1.31	0.46	0.07	1.52	1.06	1.37	13.87
1999	1.93	0.00	2.92	1.49	1.77	4.43	0.06	0.42	1.60	1.66	0.00	0.35	16.63
2000	0.17	0.44	0.88	0.64	2.59	5.48	0.01	0.00	1.08	7.01	2.91	0.91	22.12
2001	1.07	2.70	1.92	0.57	3.63	1.38	0.03	3.39	2.32	0.49	3.39	0.98	21.87
2002	0.47	1.16	4.01	0.46	3.24	0.81	8.04	1.07	2.05	4.37	0.93	1.33	27.94
2003	0.18	0.93	0.48	0.60	1.69	7.36	0.05	2.39	1.02	1.81	2.49	0.01	19.01
2004	1.65	2.90	1.29	5.03	1.73	4.04	1.55	5.02	0.20	8.11	5.12	0.73	37.37
2005	0.72	2.11	2.19	0.01	2.95	0.72	2.42	4.43	0.56	3.44	T	0.11	19.66
2006	0.41	1.26	2.61	3.17	3.40	2.21	0.39	1.44	3.17	1.43	0.12	1.16	20.77
2007	1.59	0.32	4.28	2.14	5.63	7.86	2.41	7.07	1.21	1.93	1.03	0.37	35.84
2008	0.08	0.77	4.06	2.44	2.40	2.52	0.01	6.31	2.51	3.15	0.11	0.01	24.37
2009	0.17	0.29	1.42	1.07	3.28	2.68	2.56	1.25	3.55	3.40	0.02	1.87	21.56
2010	3.15	2.18	1.76	1.87	3.60	3.32	6.20	0.40	2.44	1.52	0.15	1.20	27.79
2011	0.92	0.68	0.40	2.44	1.11	0.93	T	3.91	0.24	4.09	0.18	1.93	16.83
2012	2.77	1.70	1.21	0.87	2.31	2.11	1.49	1.20	8.48	0.73	0.29	0.04	23.20
2013	1.31	0.58	0.61	1.72	2.00	5.13	4.44	0.54	3.18	1.40	1.17	1.11	23.19
POR= 66 YRS	1.02	1.13	1.35	2.00	3.20	2.99	2.10	2.51	2.65	2.60	1.27	1.02	23.84

WBAN : 13962

AVERAGE TEMPERATURE (°F) 2013 ABILENE (KABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	39.5	49.9	55.3	63.6	75.3	83.1	83.7	83.1	73.1	63.8	52.7	48.8	64.3
1985	37.2	44.4	57.5	66.7	73.8	77.9	81.6	84.9	75.7	65.7	54.6	41.4	63.5
1986	47.9	50.8	60.6	68.6	73.9	79.3	84.3	81.8	77.4	63.5	51.2	43.9	65.3
1987	43.4	49.4	52.1	62.7	72.1	77.5	81.6	83.5	74.0	67.0	54.0	44.8	63.5
1988	41.7	45.2	55.4	64.0	71.1	78.9	81.7	83.9	76.3	66.4	57.9	47.4	64.2
1989	49.4	40.2	56.8	66.5	75.9	75.9	82.9	81.9	72.6	67.7	56.4	38.4	63.7
1990	50.0	53.0	56.4	62.8	72.1	84.9	79.7	82.1	76.8	64.5	57.1	42.9	65.2
1991	41.9	52.1	58.9	68.0	75.4	78.2	82.3	79.2	71.3	66.1	49.9	46.7	64.2
1992	43.1	50.6	58.8	64.9	69.4	78.2	81.1	78.0	76.0	68.7	51.5	47.8	64.0
1993	42.9	46.6	54.8	63.6	70.4	79.7	85.7	83.9	74.1	62.8	49.6	47.8	63.5
1994	44.1	46.8	57.5	64.0	70.2	83.2	83.8	82.6	72.9	65.9	55.1	47.9	64.5
1995	46.6	50.2	53.3	63.7	70.1	76.3	83.4	81.1	74.3	66.2	54.4	46.5	63.8
1996	43.2	51.4	52.2	63.1	78.6	80.2	84.4	80.0	72.2	64.6	53.3	48.9	64.3
1997	43.3	46.9	57.7	58.9	69.1	76.7	82.5	81.7	78.7	66.4	50.9	42.9	63.0
1998	48.8	49.1	53.5	62.5	79.2	83.8	87.6	83.8	81.2	69.4	56.9	45.0	66.7
1999	47.9	55.7	54.9	65.5	72.5	78.8	83.5	87.1	76.2	66.2	59.8	47.8	66.3
2000	49.2	55.8	60.3	67.7	79.4	78.3	85.7	86.9	78.5	67.0	48.1	39.6	66.4
2001	41.8	48.5	51.2	64.1	73.8	81.7	87.6	83.4	74.4	65.5	58.4	47.9	64.9
2002	47.9	45.7	54.3	67.4	72.2	79.4	79.7	83.6	75.8	60.9	51.1	46.2	63.7
2003	44.4	46.2	56.1	66.9	74.6	76.5	83.1	83.2	73.3	66.7	56.3	48.8	64.7
2004	48.0	45.0	59.9	63.1	72.1	77.1	80.5	78.0	73.9	66.9	53.0	47.3	63.7
2005	49.2	50.1	55.7	64.5	71.1	80.1	82.6	80.5	79.7	65.6	57.1	45.1	65.1
2006	52.3	48.6	60.2	70.1	74.9	80.4	84.5	85.6	73.2	65.9	57.0	47.4	66.7
2007	40.1	48.3	61.1	60.9	70.4	77.2	78.8	81.4	77.4	68.7	56.8	46.1	63.9
2008	44.4	52.2	57.1	64.9	74.1	82.7	83.4	80.4	73.0	64.8	55.0	46.5	64.9
2009	46.0	54.5	59.6	65.8	72.4	82.7	84.0	84.2	72.7	61.1	56.8	40.7	65.0
2010	42.9	41.7	54.6	64.7	72.8	83.1	82.3	86.5	77.8	67.5	56.1	49.0	64.9
2011	42.7	47.0	60.8	72.2	75.3	87.6	90.1	90.3	77.4	67.0	55.4	44.1	67.5
2012	49.4	50.8	62.2	71.4	76.6	82.6	85.6	85.5	77.5	64.7	59.1	49.4	67.9
2013	46.1	49.9	57.7	63.9	73.0	82.2	82.2	84.3	78.6	66.7	52.2	42.3	64.9
POR= 66 YRS	44.1	48.3	56.1	65.2	72.9	80.2	83.7	83.2	75.8	65.9	54.1	45.9	64.6

HEATING DEGREE DAYS (base 65°F) 2013 ABILENE (KABI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	0	65	108	375	501	853	572	259	52	3	0	2788
1985-86	0	0	28	70	328	725	522	409	162	38	9	0	2291
1986-87	0	0	1	102	413	647	663	429	396	159	1	0	2811
1987-88	0	0	0	45	347	618	715	567	324	103	10	0	2729
1988-89	0	0	3	33	248	539	477	690	310	116	4	0	2420
1989-90	0	0	40	92	286	820	460	334	293	123	58	0	2506
1990-91	0	0	3	104	258	680	711	358	224	22	12	0	2372
1991-92	0	0	33	110	448	562	672	408	200	88	30	0	2551
1992-93	0	0	0	20	413	530	677	509	328	125	24	0	2626
1993-94	0	0	10	174	459	524	640	502	272	123	30	0	2734
1994-95	0	0	14	103	307	521	563	408	387	131	17	0	2451
1995-96	0	0	30	64	314	574	673	422	414	138	0	0	2629
1996-97	0	0	22	86	360	497	674	499	244	206	36	0	2624
1997-98	0	0	0	105	417	677	497	438	389	130	0	0	2653
1998-99	0	0	0	47	246	615	524	269	312	98	14	0	2125
1999-00	0	0	18	87	171	531	483	269	180	85	8	0	1832
2000-01	0	0	23	89	501	783	712	459	421	91	3	0	3082
2001-02	0	0	9	66	223	527	529	533	361	88	16	0	2352
2002-03	0	0	0	196	414	573	630	526	291	66	16	0	2712
2003-04	0	0	0	50	301	495	525	576	196	114	34	0	2291
2004-05	0	0	1	36	351	542	489	420	289	90	43	0	2261
2005-06	0	0	0	111	275	610	392	463	207	28	9	0	2095
2006-07	0	0	4	104	263	542	766	469	157	181	3	0	2489
2007-08	0	0	0	65	273	585	632	373	281	98	17	0	2324
2008-09	0	0	1	96	308	570	585	308	225	90	14	0	2197
2009-10	0	0	11	164	243	744	682	646	335	79	17	0	2921
2010-11	0	0	2	42	283	493	682	515	186	30	41	0	2274
2011-12	0	0	0	76	311	638	475	410	157	17	5	0	2089
2012-13	0	0	6	128	208	493	584	416	261	155	50	0	2301
2013-	0	0	0	79	393	698							

WBAN : 13962

COOLING DEGREE DAYS (base 65°F) 2013 ABILENE (KABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	20	71	339	550	589	570	315	80	13	4	2551
1985	0	0	32	107	281	393	519	621	356	97	25	0	2431
1986	0	18	34	155	294	435	610	524	382	64	3	0	2519
1987	0	0	3	97	228	379	525	579	277	116	25	0	2229
1988	0	0	34	80	206	422	524	592	350	85	37	0	2330
1989	0	0	64	169	347	334	563	530	275	183	33	0	2498
1990	2	6	33	63	285	603	461	537	363	94	30	0	2477
1991	0	0	40	118	340	404	544	449	228	151	2	1	2277
1992	0	0	13	92	173	402	501	410	336	142	13	6	2088
1993	0	0	19	88	198	448	648	593	289	116	4	0	2403
1994	0	0	48	98	199	552	589	555	259	140	17	0	2457
1995	0	0	32	97	183	346	576	505	314	107	4	7	2171
1996	0	36	23	87	431	461	609	472	80	80	14	4	2297
1997	7	0	24	30	171	358	551	523	420	154	1	0	2239
1998	0	0	40	63	446	567	711	587	490	188	13	1	3106
1999	1	13	4	120	255	421	579	691	358	130	20	0	2592
2000	2	9	40	173	462	406	649	685	434	158	0	0	3018
2001	0	0	0	69	285	507	706	577	298	87	33	2	2564
2002	4	2	37	165	244	438	465	584	328	77	5	0	2349
2003	0	4	21	131	322	352	571	570	254	110	43	0	2378
2004	6	2	44	62	261	367	486	411	275	103	0	0	2017
2005	5	8	9	78	239	460	556	490	450	134	46	0	2475
2006	5	12	66	188	319	468	612	644	257	140	30	0	2741
2007	0	5	43	64	180	373	433	517	383	187	37	7	2229
2008	1	10	43	103	307	537	578	488	247	96	18	4	2432
2009	0	22	63	120	251	538	596	602	247	48	4	0	2491
2010	1	0	18	78	264	546	546	674	391	124	22	5	2669
2011	0	19	63	252	367	686	784	794	377	145	30	0	3517
2012	0	6	77	212	370	534	646	643	385	123	37	16	3049
2013	6	0	40	130	305	524	541	608	415	140	13	1	2723

SNOWFALL (inches) 2013 ABILENE (KABI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	6.1	1.9	0.0	0.0	0.0	0.0	8.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.2	0.0	T	0.0	0.0	0.0	0.0	0.2
1986-87	0.0	0.0	0.0	0.0	0.0	0.6	2.4	3.9	T	0.0	0.0	0.0	6.9
1987-88	0.0	0.0	0.0	0.0	0.0	3.3	T	2.0	0.0	0.0	0.0	0.0	5.3
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.2	T	5.2	0.0	T	T	5.4
1989-90	0.0	0.0	0.0	0.0	0.0	T	T	T	T	T	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	2.6	1.6	0.0	T	T	0.0	T	4.2
1991-92	0.0	0.0	0.0	T	0.0	T	0.5	0.5	T	0.0	0.0	0.0	1.0
1992-93	T	0.0	0.0	0.0	2.8	T	T	T	0.3	0.0	T	T	3.1
1993-94	0.0	0.0	0.0	0.3	T	1.7	2.5	0.0	T	T	T	0.0	4.5
1994-95	0.0	0.0	0.0	0.0	T	0.0	6.2	0.0	T	0.0	T	0.0	6.2
1995-96	T	0.0	0.0	0.0	1.1	T	4.5	0.4	T	9.3			
1996-97					1.0	0.0	0.7	1.1	0.0	0.0	0.0	T	
1997-98	0.0	T											
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04							T	3.4	T	0.0	T	0.0	
2004-05	0.0	0.0	0.0	0.0	T	4.3	T	0.0	1.2	0.0	0.0	0.0	5.5
2005-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.6	0.0	0.7	0.3	0.0	T	0.0	0.0	1.6
2007-08	0.0	0.0	0.0	T	6.6	T	0.0	0.0	1.3	0.0	0.0	0.0	7.9
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	6.5	T	7.0	0.0	0.0	0.0	0.0	13.5
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	T	4.4	0.0	T	0.0	0.0	4.4
2011-12	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.4	T	T	T	0.0	2.7
2012-13	0.0	0.0	0.0	0.0	0.0	0.1	1.0	T	T	T	T	T	1.1
2013-	0.0	0.0	0.0	0.0	0.5	0.8							
POR= 60 YRS	T	T	0.0	T	0.6	0.9	1.7	1.3	0.5	0.2	T	T	5.2

WBAN : 13962

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. 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.</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</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: 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 ABILENE TEXAS (KABI)

Abilene is located in north central Texas. The station elevation is 1,750 feet above sea level. Topography of the area includes rolling plains, treeless except for mesquite, broken by low hills to the south and west. The land rises gently to the east and southeast. Regional agricultural products are mainly cattle, dry-land cotton, and feed crops.

Abilene is on the boundary between the humid east Texas climate and the semi-arid west and north Texas climate. The rainfall pattern is typical of the Great Plains. Most precipitation occurs from April to October and is usually associated with thunderstorms. Severe storms are infrequent, occurring mostly in the spring.

The large range of high and low temperatures, characteristic of the Great Plains, extends south to the Abilene area. High daytime temperatures prevail in the summer, but are normally broken by thunderstorms about five times a month. Rapid cooling after sunset results in pleasant nights with low summertime temperatures in the upper 60s and low 70s. High summer temperatures are usually associated with fair skies, southwesterly winds, and low humidities.

Rapid wintertime temperature changes occur when cold, dry, arctic air replaces warm moist tropical air. Drops in temperature of 20 to 30 degrees in one hour are not unusual. However, cold weather periods are short lived. Fair, mild weather is typical.

South is the prevailing wind direction, and southerly winds are frequently high and persist for several days. Strong northerly winds often occur during the passage of cold fronts. Dusty conditions are infrequent, occurring mostly with westerly winds. Dust storm frequency and intensity depend on soil conditions in eastern New Mexico, west Texas, and the Texas Panhandle.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 13 and the average last occurrence in the spring is March 25.

Station History

ABILENE, TX

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ABILENE REGIONAL AP	1996-04-01	2006-01-18	32° 24'	-99° 40'	1790	.1 MI S	ASOS, COOP
ABILENE MUNICIPAL AP	1946-08-01	1954-01-01	32° 27'	-99° 40'	1755		AIRWAYS, COOP
ABILENE REGIONAL AP	2006-08-09	2010-02-25	32° 24'	-99° 40'	1790		AIRSAMPLE, ASOS, COOP
ABILENE MUNICIPAL AP	1972-01-01	1993-01-01	32° 25'	-99° 40'	1784		COOP, WXSVC
ABILENE REGIONAL AP	1930-07-01	1935-07-02	32° 27'	-99° 40'			AIRWAYS
ABILENE REGIONAL AP	2010-02-25	2010-11-10	32° 24'	-99° 40'	1790		AIRSAMPLE, AIRWAYS, ASOS, COOP
ABILENE REGIONAL AP	1993-01-01	1996-04-01	32° 25'	-99° 40'	1784		COOP, WXSVC
ABILENE REGIONAL AP	2010-11-10	Present	32° 24'	-99° 40'	1790		AIRSAMPLE, ASOS, COOP
ABILENE MUNICIPAL AP	1935-07-02	1946-08-01	32° 27'	-99° 40'			AIRWAYS
ABILENE MUNICIPAL AP	1954-01-01	1969-01-01	32° 27'	-99° 40'	1762		AIRWAYS, COOP
ABILENE REGIONAL AP	2006-01-18	2006-08-09	32° 24'	-99° 40'	1790		ASOS, COOP
ABILENE MUNICIPAL AP	1969-01-01	1972-01-01	32° 27'	-99° 40'	1762		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1996-04-01	2006-01-18	DAILY	2400	TB	RCRD	
TEMP	1996-04-01	2006-01-18	DAILY	2400	HYGR		
PRECIP	1930-07-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	2006-01-18	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2006-01-18	Present	DAILY	2400	PCPN1		
TEMP	1930-07-01	1982-01-01	DAILY	2400			
PRECIP	1982-01-01	1996-04-01	HOURLY	2400	UNIV	RCRD	
TEMP	2006-01-18	Present	DAILY	2400	HYGR		
PRECIP	1982-01-01	1996-04-01	DAILY	2400	UNIV	RCRD	
PRECIP	1996-04-01	2006-01-18	HOURLY	2400	TB	RCRD	
TEMP	1982-01-01	1996-04-01	DAILY	2400			

* 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

TDD : (828) 271-4010

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