

1998

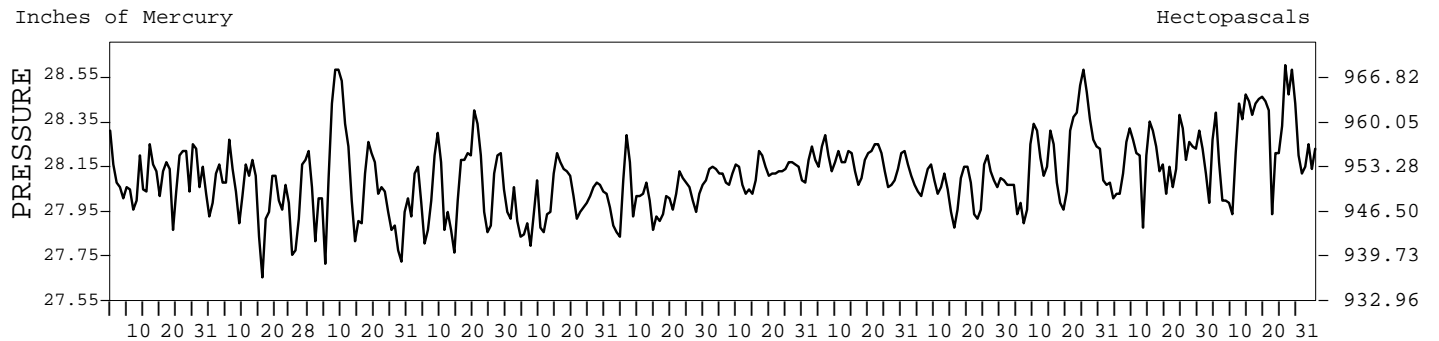
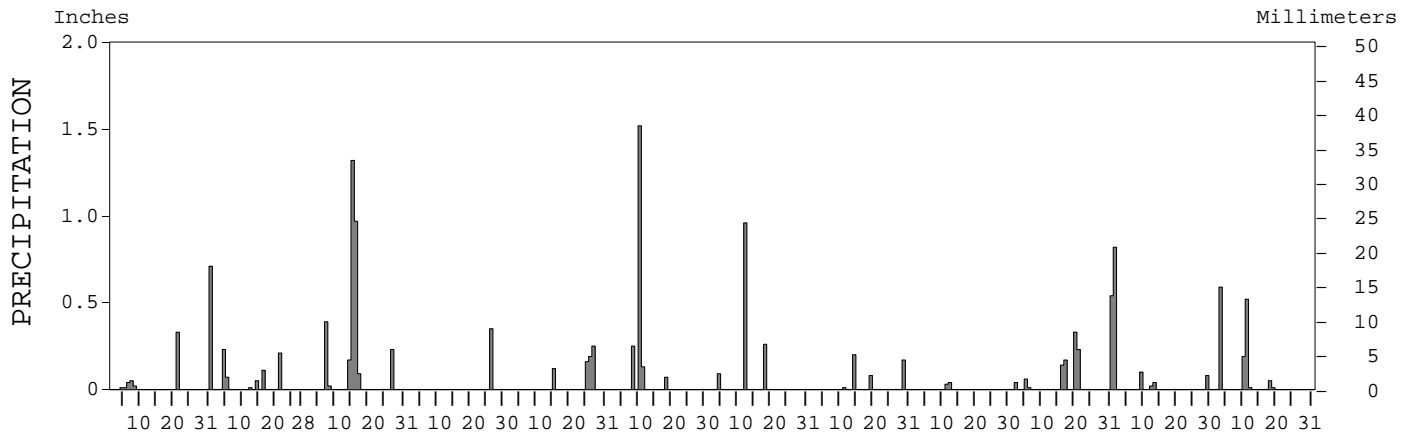
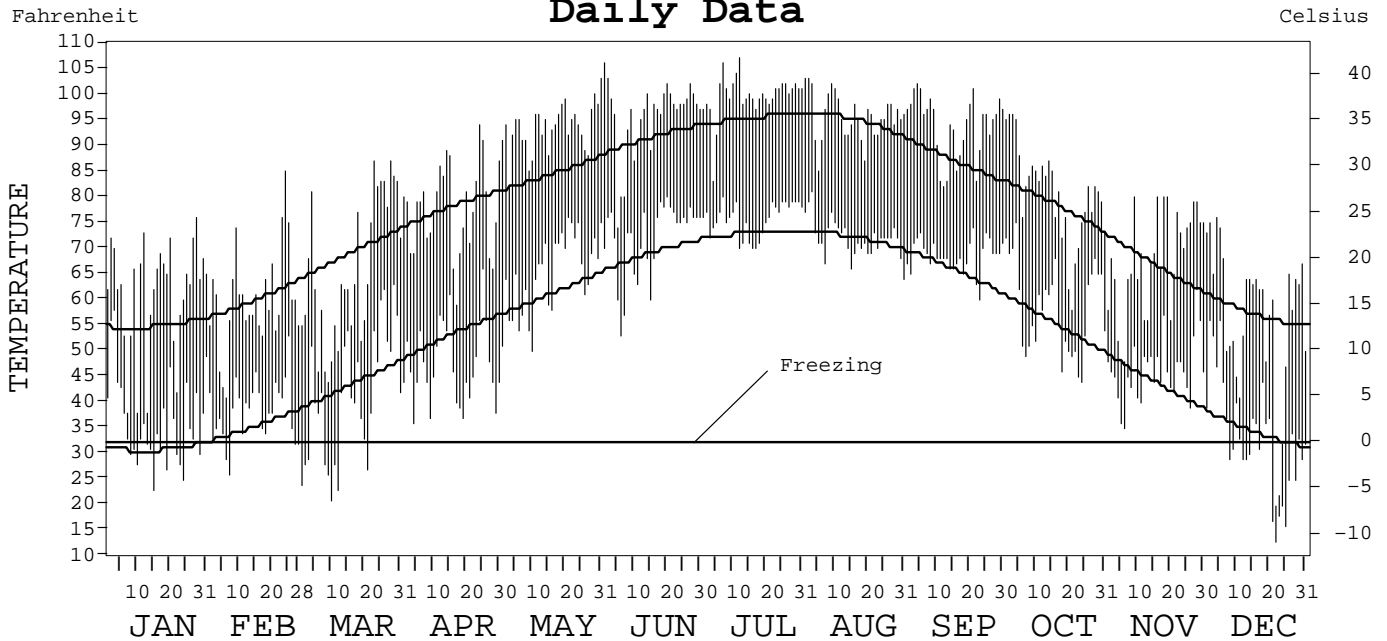
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4896

ABILENE,
TEXAS (ABI)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1998

ABILENE, TX (ABI)

LATITUDE: 32° 24' 40" N LONGITUDE: 99° 40' 54" W ELEVATION (FT): GRND: 1784 BARO: 1789 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	61.2	59.9	65.7	77.6	93.4	95.6	99.6	95.6	93.8	80.5	67.7	56.6	78.9	
	HIGHEST DAILY MAXIMUM	76	85	87	94	103	106	107	103	102	96	80	76	107	
	DATE OF OCCURRENCE	28	24	28+	24	31	01	12	02+	04	03+	19+	04	JUL 12	
	MEAN DAILY MINIMUM	36.3	38.3	41.2	47.4	64.9	71.9	75.6	71.9	68.6	58.2	46.1	33.4	54.5	
	LOWEST DAILY MINIMUM	23	26	21	36	50	53	70	64	60	44	35	13	13	
	DATE OF OCCURRENCE	15	07	10	04	10	06	17+	31	23	24	06	22	DEC 22	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	42.7	43.2	46.0	51.3	65.1	70.7	71.9	70.5	68.9	60.9		39.8		
	MEAN DEW POINT	36.6	37.4	38.5	40.3	56.1	64.2	64.3	63.8	62.5	55.2		34.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	25	25	30	29	23	4	0	0	138	
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	3	3	
	MINIMUM ≤ 32°	12	4	9	0	0	0	0	0	0	0	0	15	40	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	497	438	389	130	0	0	0	0	47	246	615	2362		
	COOLING DEGREE DAYS	0	0	40	63	446	567	711	587	490	188	13	1	3106	
RH	MEAN (PERCENT)	71	71	63	49	50	55	50	57	58	66	72	71	61	
	HOUR 06 LST	82	84	79	70	71	77	72	78	79	84	84	83	79	
	HOUR 12 LST	61	59	53	35	37	47	41	43	44	53	61	61	50	
	HOUR 18 LST	57	56	46	33	32	38	33	42	42	51	62	60	46	
	HOUR 24 LST	81	80	72	58	59	60	58	65	67	74	80	76	69	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	0	0	1	0	0	0	0	0	2	3	10		
	THUNDERSTORMS	0	0	3	0	3	2	1	1	1	1	1	14		
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.)	28.09	28.01	28.07	28.06	27.99	28.00	28.11	28.16	28.05	28.18	28.18	28.27	28.10	
	MEAN SEA-LEVEL PRESS. (IN.)	29.97	29.88	29.94	29.90	29.79	29.80	29.91		29.86	30.01	30.04	30.17		
WINDS	RESULTANT SPEED (MPH)	2.6	0.9	3.4	3.3	2.9	5.6	2.2	3.2	2.9	7.4	3.4	1.1	2.7	
	RES. DIR. (TENS OF DEGS.)	20	19	20	18	13	15	03	16	16	18	21	21	17	
	MEAN SPEED (MPH)	10.8	10.5	13.5	12.1	12.3	14.8	10.9	8.2	8.8	11.9	10.5	9.2	11.1	
	PREVAIL. DIR. (TENS OF DEGS.)	18	15	16	16	16	16	15	15	17	17	17	18	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	31	39	55	40	41	48	39	25	33	39	30	55	
	DIR. (TENS OF DEGS.)	35	18	33	27	15	23	30	02	36	21	33	29	27	
	DATE OF OCCURRENCE	16+	25	08	26	26	08	12	29	15	04	09	06	APR 26	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	40	49	68	49	52	60	46	31	43	45	38	68	
DIR. (TENS OF DEGS.)	19	18	30	27	17	23	29	02	06	22	33	29	27		
DATE OF OCCURRENCE	02	25	30	26	26	08	12	29	11+	04	09	06	APR 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.71	0.30	2.24	0.35	0.44	1.65	0.96	0.20	0.07	0.54	0.82	0.59	2.24	
	DATE OF OCCURRENCE	31	04-05	15-16	26	26-27	10-11	12	14	11-12	31	01	03	MAR 15-16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	6	7	1	4	4	3	4	2	8	5	6	57	
PRECIPITATION ≥ 0.10	2	3	5	1	4	3	2	2	0	5	2	3	32		
PRECIPITATION ≥ 1.00	0	0	1	0	0	1	0	0	0	0	0	0	2		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

ABILENE, TX (ABI)

LATITUDE: 32° 24' 40" N LONGITUDE: 99° 40' 54" W ELEVATION (FT): GRND: 1784 BARO: 1789 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 13962

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	54.8	59.7	68.9	77.8	84.4	91.4	95.2	94.5	86.7	77.9	66.3	57.0	76.2
	MEAN DAILY MAXIMUM	51	55.3	60.0	68.4	77.4	84.2	91.4	95.0	94.1	86.9	77.7	65.4	57.7	76.1
	HIGHEST DAILY MAXIMUM	59	89	93	97	99	107	109	110	109	106	103	92	89	110
	YEAR OF OCCURRENCE		1943	1996	1974	1948	1967	1994	1978	1943	1952	1979	1980	1955	JUL 1978
	MEAN OF EXTREME MAXS.	51	77.0	81.1	87.2	92.6	97.5	100.2	101.6	101.5	97.8	91.5	82.8	77.7	90.7
	NORMAL DAILY MINIMUM	30	30.8	35.1	43.3	52.9	61.1	68.9	72.7	71.7	65.3	54.8	43.4	33.9	52.8
	MEAN DAILY MINIMUM	51	31.6	35.9	43.0	52.2	61.0	68.9	72.5	71.5	64.6	54.4	42.1	34.2	52.7
	LOWEST DAILY MINIMUM	59	-9	-7	7	25	36	47	55	50	35	23	14	-7	-9
	YEAR OF OCCURRENCE		1947	1985	1943	1973	1979	1964	1940	1992	1942	1993	1976	1989	JAN 1947
	MEAN OF EXTREME MINS.	51	13.9	18.3	23.6	34.3	45.9	58.2	64.8	63.0	49.2	37.5	25.0	17.1	37.6
	NORMAL DRY BULB	30	42.8	47.4	56.1	65.4	72.7	80.2	84.0	83.2	76.0	66.4	54.9	45.5	64.6
	MEAN DRY BULB	51	43.5	48.1	55.7	65.0	72.6	79.9	83.7	82.8	75.8	66.0	53.7	46.0	64.4
	MEAN WET BULB	14	37.6	41.2	47.1	53.6	63.0	68.7	69.8	69.5	64.9	53.0	46.2	39.3	54.5
	MEAN DEW POINT	14	29.0	32.7	37.8	44.4	56.4	63.0	63.1	63.0	59.0	46.4	38.5	31.9	47.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.6	2.9	8.3	19.0	26.1	25.1	12.0	2.4	0.1	0.0	96.5	
MAXIMUM ≤ 32°	30	2.2	1.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	4.7	
MINIMUM ≤ 32°	30	17.7	11.5	4.4	0.4	0.0	0.0	0.0	0.0	0.0	0.2	4.6	14.2	53.0	
MINIMUM ≤ 0°	30	*	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	688	493	299	94	7	0	0	0	6	75	317	605	2584
	NORMAL COOLING DEG. DAYS	30	0	0	23	106	245	456	589	564	336	118	14	0	2451
RH	NORMAL (PERCENT)	30	60	60	54	55	60	59	54	55	62	61	62	61	59
	HOUR 06 LST	30	66	66	61	62	68	66	59	60	68	67	68	67	65
	HOUR 12 LST	30	72	72	70	72	78	78	72	73	78	76	75	72	74
	HOUR 18 LST	30	53	53	47	46	51	50	46	46	53	51	52	53	50
	HOUR 24 LST	30	48	46	39	40	44	43	38	40	48	48	51	52	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)	60	1.3	1.4	0.7	0.5	0.4	0.1	0.0	0.1	0.4	0.7	1.0	1.2	7.8
	THUNDERSTORMS	60	0.6	1.4	2.8	5.0	8.0	6.1	4.6	5.1	3.5	2.9	1.5	0.8	42.3
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)	25	28.20	28.19	28.10	28.10	28.00	28.10	28.10	28.19	27.15	28.20	28.20	28.05	
	MEAN SEA-LEVEL PRES. (IN)	14	30.12	30.06	29.97	29.90	29.86	29.88	29.94	29.94	29.96	28.00	30.05	30.11	29.82
WINDS	MEAN SPEED (MPH)	54	11.8	12.5	13.9	13.8	12.9	12.5	11.0	10.3	10.5	11.2	11.8	11.9	12.0
	PREVAIL. DIR (TENS OF DEGS)	19	36	36	18	16	16	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	2	33	36	39	55	40	49	48	55	26	33	39	37	55
	DIR. (TENS OF DEGS)		20	04	33	27	15	21	30	19	06	21	33	33	27
	YEAR OF OCCURRENCE		1997	1997	1998	1998	1998	1997	1998	1997	1997	1998	1998	1997	APR 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	2	43	40	49	68	49	60	60	67	31	43	45	46	68	
DIR. (TENS OF DEGS)		20	13	30	27	17	20	29	19	05	22	33	28	27	
YEAR OF OCCURRENCE		1997	1997	1998	1998	1998	1997	1998	1997	1997	1998	1998	1997	APR 1998	
PRECIPITATION	NORMAL (IN)	30	1.03	1.16	1.36	1.90	2.97	2.86	2.09	2.80	3.21	2.51	1.48	1.03	24.40
	MAXIMUM MONTHLY (IN)	59	4.35	3.60	5.16	6.80	13.19	9.60	7.15	8.18	11.03	10.68	4.60	6.28	13.19
	YEAR OF OCCURRENCE		1968	1992	1979	1966	1957	1961	1968	1969	1974	1981	1968	1991	MAY 1957
	MINIMUM MONTHLY (IN)	59	T	0.04	0.03	T	0.15	T	T	T	T	0.00	0.00	T	0.00
	YEAR OF OCCURRENCE		1967	1996	1963	1961	1956	1994	1970	1943	1956	1952	1949	1972	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	59	2.18	1.94	2.24	3.75	4.76	3.66	3.74	6.30	6.70	6.08	2.43	2.62	6.70
	YEAR OF OCCURRENCE		1961	1992	1998	1957	1990	1959	1960	1978	1961	1981	1975	1991	SEP 1961
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	4.5	5.1	5.1	5.8	7.5	6.0	5.0	6.2	6.8	5.5	4.6	4.8	66.9	
PRECIPITATION ≥ 1.00	30	0.2	0.1	0.3	0.5	0.9	0.9	0.7	0.8	0.9	0.7	0.3	0.2	6.5	
SNOWFALL	NORMAL (IN)	30	2.2	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	T	0.6	0.9	5.8
	MAXIMUM MONTHLY (IN)	58	13.5	8.4	7.3	9.3	T	T	T	T	0.0	0.3	8.1	7.8	13.5
	YEAR OF OCCURRENCE		1973	1956	1970	1996	1995	1993	1995	1997	1993	1968	1983	JAN 1973	
	MAXIMUM IN 24 HOURS (IN)	58	7.5	4.5	6.1	9.3	T	T	T	T	0.0	0.3	5.3	4.2	9.3
	YEAR OF OCCURRENCE		1973	1979	1970	1996	1995	1993	1995	1997	1993	1976	1946	APR 1996	
	MAXIMUM SNOW DEPTH (IN)	49	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	0.7	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	2.1	

PRECIPITATION (inches) 1998 ABILENE, TX (ABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0.81	1.28	2.08	2.49	7.76	2.42	2.15	8.18	4.10	1.98	1.11	2.48	36.84
1970	0.04	1.84	2.41	2.56	3.68	1.94	T	1.54	2.41	1.18	0.08	0.24	17.92
1971	0.01	0.57	0.04	2.44	2.17	1.78	1.85	6.92	5.33	2.43	0.76	1.81	26.11
1972	0.29	0.11	0.23	1.04	2.47	3.67	1.22	4.92	3.15	4.49	0.37	T	21.96
1973	3.52	1.61	3.28	1.10	1.38	2.21	2.68	0.30	4.65	3.15	0.22	0.01	24.11
1974	0.18	0.57	0.72	3.44	0.72	1.03	2.20	5.61	11.03	5.06	1.75	1.14	33.45
1975	0.83	1.86	1.49	0.52	4.43	1.68	1.93	2.47	2.27	0.84	2.67	1.22	22.21
1976	0.02	0.08	0.25	3.70	1.04	0.68	4.27	1.47	3.97	6.24	0.63	0.18	22.53
1977	1.22	0.08	2.35	3.11	0.44	1.71	1.82	2.54	0.09	2.15	0.57	0.19	16.27
1978	0.62	1.26	0.17	1.00	1.50	1.24	0.72	6.70	2.36	1.49	0.94	0.28	18.28
1979	0.72	1.10	5.16	1.72	1.86	2.89	1.55	1.55	0.01	0.53	0.65	2.62	20.36
1980	0.77	0.72	0.69	0.17	5.00	1.14	0.24	1.62	6.30	0.71	1.62	1.69	20.67
1981	1.20	1.06	2.36	3.52	1.48	2.73	1.69	0.63	1.74	10.68	0.43	0.25	27.77
1982	1.00	1.20	0.43	0.38	6.87	3.98	1.50	1.12	1.09	0.74	1.72	1.28	21.31
1983	2.28	0.12	1.95	0.54	1.42	3.86	2.57	0.10	0.87	3.25	1.77	0.77	19.50
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
POR= 113 YRS	0.94	1.07	1.22	2.32	3.75	2.78	1.97	2.24	2.59	2.59	1.31	1.11	23.89

WBAN : 13962

AVERAGE TEMPERATURE (°F) 1998 ABILENE, TX (ABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	48.0	48.0	47.5	65.7	70.4	78.4	87.4	85.6	75.9	61.9	53.4	47.7	64.2
1970	40.8	48.8	51.4	65.1	70.3	79.2	84.4	83.8	78.1	63.4	51.2	51.5	64.0
1971	46.4	48.7	55.1	64.5	72.4	80.4	84.4	76.9	73.3	66.0	55.0	48.9	64.3
1972	43.7	49.2	59.5	69.4	70.6	80.6	80.8	78.9	75.3	63.7	46.4	42.1	63.4
1973	37.5	44.4	57.2	58.6	70.6	77.4	81.2	82.5	73.8	66.5	58.2	46.8	62.9
1974	42.8	51.2	62.6	65.6	76.0	80.8	84.4	78.7	66.3	64.6	51.7	44.4	64.1
1975	44.8	45.1	54.1	62.9	70.2	78.5	79.7	81.3	70.8	65.6	54.3	46.1	62.8
1976	42.4	56.0	56.5	64.8	68.2	78.9	77.7	81.6	73.5	56.9	45.6	42.5	62.1
1977	35.7	50.9	56.8	62.4	73.4	81.3	83.8	83.4	82.6	66.9	54.6	48.7	65.0
1978	34.5	38.7	55.0	70.3	76.3	83.3	89.0	82.3	77.3	66.9	55.3	43.3	64.4
1979	35.6	44.9	56.7	64.2	69.8	79.0	83.7	82.2	77.7	71.6	50.9	47.7	63.7
1980	45.2	47.9	54.8	63.9	72.1	84.4	89.4	86.1	77.7	64.9	52.6	49.3	65.7
1981	44.8	49.4	54.9	68.3	71.6	80.3	85.8	83.3	78.0	66.2	57.4	48.8	65.7
1982	44.8	44.7	58.3	62.9	72.1	78.8	84.1	85.6	77.6	65.9	54.4	45.8	64.6
1983	42.6	47.0	54.9	60.6	70.8	76.7	82.8	85.2	77.9	69.1	57.0	34.2	63.2
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
POR= 113 YRS	44.0	47.9	56.0	64.9	72.4	79.9	83.4	82.9	76.1	65.9	53.9	46.0	64.4

HEATING DEGREE DAYS (base 65°F) 1998 ABILENE, TX (ABI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	0	192	350	528	748	449	422	92	31	1	2813
1970-71	0	0	15	147	414	411	569	455	326	96	22	0	2455
1971-72	0	0	44	44	312	492	651	464	207	49	12	0	2275
1972-73	0	0	13	158	554	702	844	574	235	228	43	0	3351
1973-74	0	0	6	60	227	557	680	389	181	78	7	0	2185
1974-75	0	0	60	67	400	631	620	553	351	144	7	0	2833
1975-76	0	0	55	97	327	578	692	276	296	68	39	0	2428
1976-77	0	0	11	276	575	690	901	393	262	89	0	0	3197
1977-78	0	0	0	56	314	500	938	730	337	37	34	0	2946
1978-79	0	0	5	56	308	667	906	567	272	84	55	0	2920
1979-80	0	0	0	43	429	530	605	496	316	118	10	0	2547
1980-81	0	0	16	116	389	485	619	439	312	51	20	0	2447
1981-82	0	0	7	116	237	496	617	570	253	149	22	0	2467
1982-83	0	0	0	111	340	589	686	497	325	209	23	4	2784
1983-84	0	0	9	37	261	947	781	431	310	107	12	0	2895
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-	0	0	0	47	246	615							

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COOLING DEGREE DAYS (base 65°F) 1998 ABILENE, TX (ABI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	5	83	190	412	699	644	332	105	12	0	2482
1970	2	0	5	104	202	433	607	590	411	106	6	1	2467
1971	0	4	26	88	256	469	607	376	297	83	20	0	2226
1972	0	12	41	188	189	474	497	436	330	128	1	0	2296
1973	0	0	0	44	224	379	508	550	277	111	32	0	2125
1974	0	7	113	102	354	480	607	430	104	62	8	0	2267
1975	0	0	20	89	175	411	462	513	236	120	13	0	2039
1976	0	21	40	67	145	424	401	521	275	31	0	0	1925
1977	0	4	13	17	267	496	590	579	534	122	7	1	2630
1978	0	0	35	201	392	555	751	542	379	121	23	1	3000
1979	0	9	20	67	209	428	586	539	390	253	11	0	2512
1980	0	7	6	91	237	588	762	660	405	119	21	5	2901
1981	0	6	8	154	230	464	653	575	403	162	15	1	2671
1982	1	8	52	92	249	422	600	645	386	147	28	1	2631
1983	0	0	21	84	208	365	558	634	403	171	30	0	2474
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

SNOWFALL (inches) 1998 ABILENE, TX (ABI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	0.0	T	3.1	0.2	0.0	7.3	0.0	0.0	0.0	10.6
1970-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.0	0.0	0.0	1.6
1971-72	0.0	0.0	0.0	0.0	0.0	T	1.0	0.0	T	0.0	0.0	0.0	1.0
1972-73	0.0	0.0	0.0	0.0	0.1	0.0	13.5	3.0	0.0	0.0	0.0	0.0	16.6
1973-74	0.0	0.0	0.0	0.0	0.0	T	T	0.2	T	0.0	0.0	0.0	0.2
1974-75	0.0	0.0	0.0	0.0	0.0	T	6.0	1.6	T	0.0	0.0	0.0	7.6
1975-76	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	T	0.0	0.0	0.0	2.6
1976-77	0.0	0.0	0.0	0.0	5.6	0.0	3.9	0.0	0.0	0.0	0.0	0.0	9.5
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.4	1.0	0.0	0.0	0.0	4.1
1978-79	0.0	0.0	0.0	0.0	0.0	0.9	0.5	5.9	0.0	0.0	0.0	0.0	7.3
1979-80	0.0	0.0	0.0	0.0	0.0	0.3	T	2.2	T	T	0.0	0.0	2.5
1980-81	0.0	0.0	0.0	T	3.7	0.0	1.9	T	0.0	0.0	0.0	0.0	5.6
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.2	0.0	0.0	0.0	0.0	6.2
1982-83	0.0	0.0	0.0	0.0	T	1.4	10.8	T	T	0.0	0.0	0.0	12.2
1983-84	0.0	0.0	0.0	0.0	0.0	7.8	T	0.4	0.8	0.0	0.0	0.0	9.0
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-													
POR= 57 YRS	T	0.0	0.0	0.0	0.4	0.7	2.0	1.0	0.6	0.2	T	T	4.9

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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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1998
ABILENE,
TEXAS (ABI)

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 LOCATION

ABILENE, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE												* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND													
							G	U	D	Z	S	U	S	H	H	R	8			H
<u>CITY</u>																				
N. Second between Pine and Cypress Streets	9/15/85	8/1/86	NA	32°27'	99°44'	1718	46	40	40											
NW Corner Pine and N. Second Streets	8/1/86	1/1/94	150 ft. E	32°27'	99°44'	1718	69	63	63											
SE Corner Chestnut and S. First Streets	1/1/94	1/8/10	500 ft. S	32°27'	99°44'	1716	52	44	44											
1482 N. First Street	1/8/10	4/1/44	1500 ft. W & 300 ft. N	32°27'	99°44'	1726	52	10	10		3						City office closed. Consolidated with Airport.			
<u>AIRPORT</u>																				
Municipal Airport 3-1/2 miles SE of P.O.	7/2/35	12/11/53	NA	32°26'	99°41'	1751	59	4	4	* Unk	2	4	3							
Municipal Airport	12/11/53	10/15/71	0.5 mi. S	32°26'	99°41'	1759 d1762	60 a32 b20	5	5	10	4	4	4	c4				WBO and WBAS consolidated 4/1/44. * - Installed March 1948? a - Effective 11/11/57. b - Effective 5/5/60. c - Commissioned 900' south of thermometer site 8/1/63. d - Effective 8/1/63.		
FAA Control Tower Municipal Airport	10/15/71	Present	1.25 mi. SSE	32°25'	99°41'	1784	e21	6	6	10 f8	4	4	4	e4 g5	NA			e - One mile SSE of previous site. f - Effective 10/27/71. g - New type at same site 5/11/78.		
														S				ASOS commissioned 05/01/96		

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