

1999

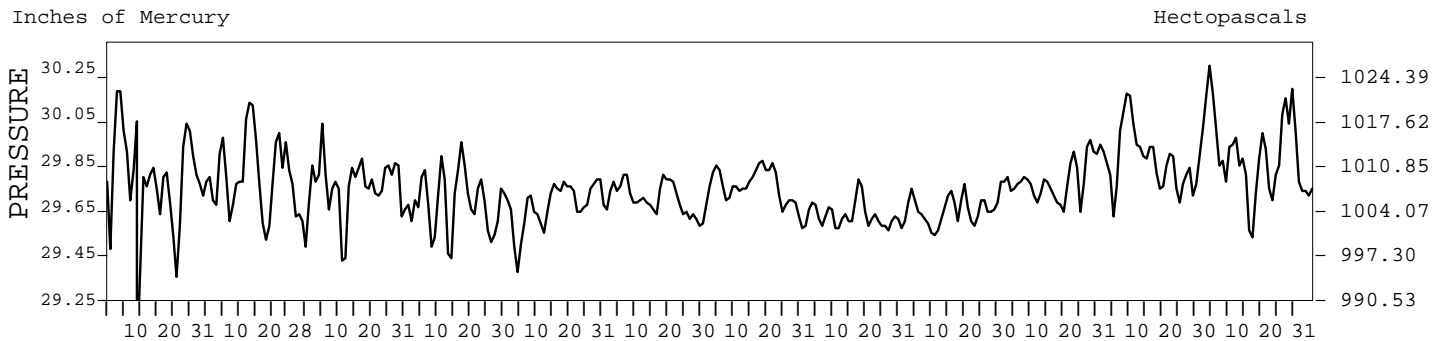
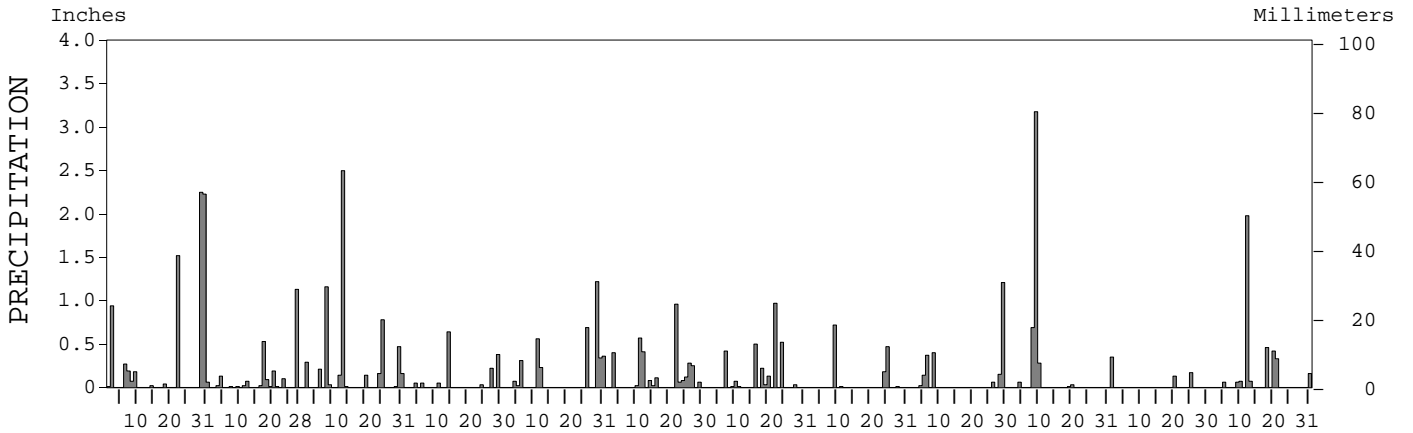
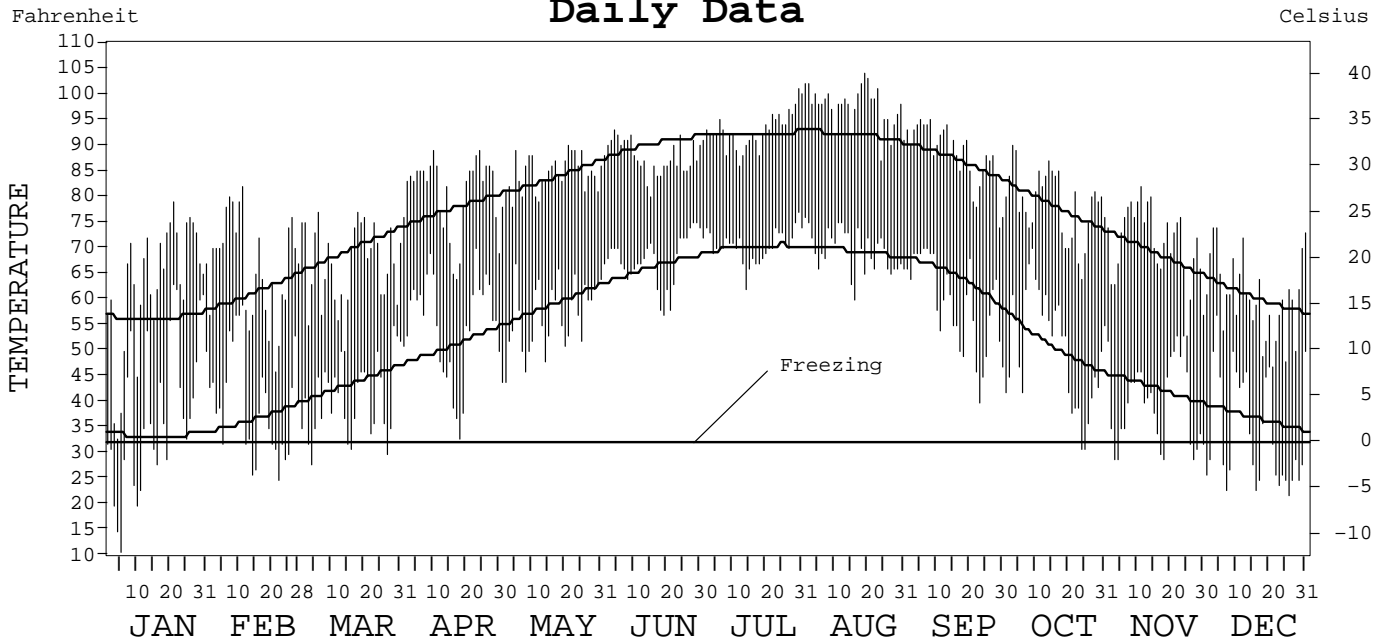
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2818

MERIDIAN,
MISSISSIPPI (MEI)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 1999

MERIDIAN, MS (MEI)

LATITUDE: 32° 19' 59" N LONGITUDE: 88° 45' 04" W ELEVATION (FT): GRND: 293 BARO: 293 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13865

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.1	66.3	67.0	80.6	84.3	87.8	92.9	97.5	88.1	78.6	70.9	60.6	78.1	
	HIGHEST DAILY MAXIMUM	79	82	77	89	90	93	101	104	95	90	82	74	104	
	DATE OF OCCURRENCE	21	11	18+	24+	21	04	30	19	08+	03	11	04+	AUG 19	
	MEAN DAILY MINIMUM	38.3	39.7	40.7	54.8	56.5	67.6	70.5	69.5	59.0	50.3	39.7	34.3	51.7	
	LOWEST DAILY MINIMUM	11	25	28	33	44	57	62	60	40	31	29	22	11	
	DATE OF OCCURRENCE	05	22	04	18	02+	19	14	16	23	25+	27+	26	JAN 05	
	AVERAGE DRY BULB	50.7	53.0	53.9	67.7	70.4	77.7	81.7	83.5	73.6	64.5	55.3	47.5	65.0	
	MEAN WET BULB		48.2	47.6	61.5	63.6	71.5	74.7	73.4	65.0	58.0	49.1	43.1		
	MEAN DEW POINT		42.9	41.0	57.1	58.9	68.9	72.1	69.2	60.2	53.6	44.0	38.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	12	26	30	15	1	0	0	0	85
MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM ≤ 32°	12	10	5	0	0	0	0	0	0	2	8	18	55		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	444	340	336	68	6	0	0	12	103	284	537	2130		
	COOLING DEGREE DAYS	10	12	0	157	179	389	529	584	275	93	0	1	2229	
RH	MEAN (PERCENT)	79	74	67	73	72	79	78	69	71	74	75	76	74	
	HOUR 00 LST	88	87	82	90	91	94	93	88	88	90	93	89	89	
	HOUR 06 LST	90	91	87	95	93	95	94	94	93	93	94	91	92	
	HOUR 12 LST	64	56	49	52	48	62	57	43	47	48	48	55	52	
	HOUR 18 LST	73	57	53	54	56	67	68	53	59	70	71	70	63	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	6	3	3	5	3	2	0	0	4	9	2	42	
	THUNDERSTORMS	5	2	6	4	6	7	6	3	4	1	0	2	46	
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.)		29.79	29.73	29.67	29.66	29.69	29.73	29.62	29.65	29.77	29.88	29.85		
	MEAN SEA-LEVEL PRESS. (IN.)		30.12	30.06	29.99	29.98	30.01	30.05	29.93	29.97	30.10	30.19	30.16		
WINDS	RESULTANT SPEED (MPH)		2.4	1.2	3.4	0.6	1.6	1.0	0.7	1.8	1.5	1.1	0.8		
	RES. DIR. (TENS OF DEGS.)		24	35	22	22	21	27	02	01	03	35	22		
	MEAN SPEED (MPH)	7.6	6.7	7.3	7.5	5.1	5.1	3.9	4.4	4.8	4.7	3.9	5.9	5.6	
	PREVAIL. DIR. (TENS OF DEGS.)	20	19	02	21	20	20	19	36	36	36	01	20	20	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	26	30	28	28		30	37	30	20	28	25		
	DIR. (TENS OF DEGS.)	16	33	28	17	29		14	31	30	01	34	18		
	DATE OF OCCURRENCE	22	12	08	14	06		25+	09	08	20+	02	12+		
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	38	38	39	37	34		38	47	36	25	35	36		
DIR. (TENS OF DEGS.)	19	29	29	19	30		13	27	30	01	32	26			
DATE OF OCCURRENCE	22	28	08+	14	06		25	09	08	20+	02	09			
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	7.78	2.34	6.06	1.42	3.80	3.42	2.91	1.39	2.35	4.25	0.65	3.61	39.98	
	GREATEST 24-HOUR (IN.)	4.48	1.13	2.50	0.64	1.22	0.96	0.97	0.72	1.36	3.18	0.35	2.04	4.48	
	DATE OF OCCURRENCE	29-30	27	13	14	29	22	22	09	28-29	09	01	12-13	JAN 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	14	13	7	9	14	11	5	7	6	3	9	110	
PRECIPITATION ≥ 0.10	7	5	10	3	7	8	6	3	5	3	3	5	65		
PRECIPITATION ≥ 1.00	3	1	2	0	1	0	0	0	1	1	0	1	10		
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

MERIDIAN, MS (MEI)

LATITUDE: 32° 19' 59" N LONGITUDE: 88° 45' 04" W ELEVATION (FT): GRND: 293 BARO: 293 TIME ZONE: CENTRAL (UTC + 6) WBAN: 13865

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	56.4	61.2	69.6	77.4	83.6	90.0	92.1	91.8	86.9	77.7	68.6	60.1	76.3
	MEAN DAILY MAXIMUM	52	57.3	61.9	69.1	77.3	84.1	90.3	92.5	92.1	87.0	78.0	67.9	60.0	76.5
	HIGHEST DAILY MAXIMUM	54	83	85	90	95	99	104	107	104	105	97	87	84	107
	YEAR OF OCCURRENCE		1950	1982	1974	1987	1951	1988	1980	1999	1990	1954	1946	1998	JUL 1980
	MEAN OF EXTREME MAXS.	52	74.7	78.3	83.7	87.7	92.5	96.8	98.4	97.5	95.0	88.9	81.8	76.4	87.6
	NORMAL DAILY MINIMUM	30	33.4	36.6	43.5	50.9	58.9	66.1	69.9	69.2	63.9	50.5	42.4	36.6	51.8
	MEAN DAILY MINIMUM	52	34.7	37.6	43.6	51.2	59.5	66.7	70.2	69.4	63.9	50.9	41.6	36.9	52.2
	LOWEST DAILY MINIMUM	54	0	8	15	28	38	42	55	53	34	24	16	2	0
	YEAR OF OCCURRENCE		1962	1996	1980	1987	1971	1984	1967	1952	1967	1952	1976	1989	JAN 1962
	MEAN OF EXTREME MINS.	52	16.8	20.3	26.9	34.7	44.8	55.4	63.6	61.3	49.4	33.9	25.5	19.4	37.7
	NORMAL DRY BULB	30	45.0	48.9	56.6	64.1	71.3	78.1	81.0	80.6	75.4	64.1	55.5	48.4	64.1
	MEAN DRY BULB	52	46.0	49.7	56.4	64.3	71.8	78.5	81.3	80.8	75.6	64.5	54.7	48.4	64.3
	MEAN WET BULB	14	41.5	45.7	50.8	57.3	65.2	71.1	73.9	73.2	68.3	58.6	50.7	41.8	58.2
	MEAN DEW POINT	14	36.4	40.3	44.8	52.3	61.3	68.0	71.4	70.3	64.8	54.7	46.2	37.6	54.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	*	0.3	4.8	16.3	23.6	22.7	11.9	1.2	0.0	0.0	80.8	
MAXIMUM ≤ 32°	30	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	
MINIMUM ≤ 32°	30	16.7	11.9	5.1	0.5	0.0	0.0	0.0	0.0	0.0	0.7	6.0	13.4	54.3	
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	
H/C	NORMAL HEATING DEG. DAYS	30	628	456	292	99	14	0	0	0	6	123	301	525	2444
	NORMAL COOLING DEG. DAYS	30	8	5	31	72	210	393	496	484	318	95	16	10	2138
RH	NORMAL (PERCENT)	30	74	71	69	70	73	74	77	77	76	75	75	75	74
	HOUR 00 LST	30	83	82	82	86	89	89	91	91	89	89	87	83	87
	HOUR 06 LST	30	86	85	88	90	91	91	92	93	92	91	88	86	89
	HOUR 12 LST	30	60	56	53	51	54	55	58	57	56	51	54	59	55
	HOUR 18 LST	30	68	60	55	55	59	61	66	67	70	74	73	72	65
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	54	3.0	2.5	2.1	2.6	2.1	1.5	1.8	1.8	1.8	2.6	3.3	2.9	28.0
	THUNDERSTORMS	54	1.9	2.7	4.8	5.5	6.3	7.5	11.5	8.0	3.7	1.6	2.3	1.9	57.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	50	5.4	5.1	5.0	4.6	4.6	4.5	4.8	4.2	4.3	3.6	4.4	4.9	4.6
	MIDNIGHT-MIDNIGHT (OKTAS)	31	4.9	4.7	4.7	4.2	4.3	4.0	4.3	3.9	3.9	3.4	4.1	4.7	4.3
	MEAN NO. DAYS WITH:														
	CLEAR	50	7.4	7.4	8.3	9.2	8.5	8.0	5.7	9.5	10.5	14.2	10.2	8.7	107.6
PARTLY CLOUDY	50	6.5	6.3	7.4	8.1	10.6	12.8	15.3	13.0	9.1	7.2	7.1	6.7	110.1	
CLOUDY	50	17.1	14.5	15.4	12.7	11.9	9.2	10.0	8.6	10.8	9.7	12.7	15.6	148.2	
PR	MEAN STATION PRESSURE (IN)	25	29.83	29.78	29.71	29.70	29.66	29.68	29.71	29.71	29.77	29.80	29.83	29.74	
	MEAN SEA-LEVEL PRES. (IN)	14	30.16	30.11	30.06	30.02	30.00	30.01	30.04	30.02	30.03	30.09	30.12	30.17	30.07
WINDS	MEAN SPEED (MPH)	33	7.1	7.6	8.0	7.2	6.0	5.2	5.0	4.7	5.4	5.4	6.4	7.1	6.3
	PREVAIL. DIR (TENS OF DEGS)	25	18	18	18	18	18	20	18	36	36	36	36	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	37	33	39	48	31	36	33	37	31	29	28	31	48
	DIR. (TENS OF DEGS)		19	18	18	19	22	31	20	31	02	01	34	23	19
	YEAR OF OCCURRENCE		1996	1998	1996	1996	1998	1998	1996	1999	1998	1997	1999	1996	APR 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	46	43	52	57	38	52	41	52	40	34	35	41	57	
DIR. (TENS OF DEGS)		26	09	35	18	24	03	20	09	06	01	32	20	18	
YEAR OF OCCURRENCE		1996	1998	1996	1996	1998	1997	1996	1998	1998	1997	1999	1996	APR 1996	
PRECIPITATION	NORMAL (IN)	30	5.15	5.43	6.75	5.46	4.42	3.63	5.15	3.58	3.52	3.06	4.49	6.07	56.71
	MAXIMUM MONTHLY (IN)	54	13.19	15.95	16.47	16.82	9.79	8.91	15.29	10.28	10.24	10.65	13.93	14.79	16.82
	YEAR OF OCCURRENCE		1998	1990	1976	1964	1980	1989	1959	1992	1957	1970	1948	1973	APR 1964
	MINIMUM MONTHLY (IN)	54	1.21	1.67	1.27	0.91	0.27	0.71	1.07	0.72	0.10	0.00	0.38	1.10	0.00
	YEAR OF OCCURRENCE		1986	1947	1955	1987	1951	1968	1952	1989	1982	1963	1956	1980	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	54	5.74	9.23	7.00	6.36	5.84	3.12	6.95	5.29	5.21	6.04	4.50	8.13	9.23
	YEAR OF OCCURRENCE		1987	1990	1979	1964	1952	1992	1959	1992	1988	1970	1957	1973	FEB 1990
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.6	8.5	9.8	8.6	8.2	8.4	10.9	9.2	7.8	5.6	8.0	10.1	105.7	
PRECIPITATION ≥ 1.00	30	1.5	1.8	2.4	1.8	1.6	1.0	1.4	1.1	1.0	1.1	1.5	1.9	18.1	
SNOWFALL	NORMAL (IN)	30	0.5	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	T	0.6	1.4	
	MAXIMUM MONTHLY (IN)	51	5.8	3.1	5.7	2.7	T	0.0	T	0.0	0.0	0.0	T	17.6	17.6
	YEAR OF OCCURRENCE		1948	1960	1993	1987	1991		1989				1976	1963	DEC 1963
	MAXIMUM IN 24 HOURS (IN)	51	4.7	3.1	5.7	2.7	T	0.0	T	0.0	0.0	0.0	T	15.0	15.0
	YEAR OF OCCURRENCE		1948	1960	1993	1987	1991		1989				1976	1963	DEC 1963
	MAXIMUM SNOW DEPTH (IN)	48	15	10	6	1	0	0	0	0	0	0	0	4	15
	YEAR OF OCCURRENCE		1964	1963	1993	1987								1963	JAN 1964
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.3	0.1	0.*	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	

PRECIPITATION (inches) 1999 MERIDIAN, MS (MEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	2.74	2.92	4.72	4.37	2.45	2.80	5.46	6.20	2.11	10.65	2.20	5.17	51.79
1971	4.25	5.72	8.05	4.66	5.17	2.58	11.65	1.99	7.17	0.84	3.09	7.63	62.80
1972	11.02	3.91	4.95	2.11	5.51	4.17	5.70	1.70	2.64	2.84	4.94	8.35	57.84
1973	5.03	3.94	14.29	8.96	6.62	2.66	10.16	2.51	4.46	2.00	3.61	14.79	79.03
1974	7.74	5.28	3.68	10.06	3.53	5.72	1.16	4.21	8.11	0.61	5.26	6.47	61.83
1975	8.39	6.30	7.16	7.68	5.12	5.49	6.77	3.82	3.64	4.30	2.84	4.05	65.56
1976	3.00	1.72	16.47	1.01	6.31	3.72	3.09	2.36	1.87	2.54	3.55	4.28	49.92
1977	5.61	4.80	12.63	7.58	3.39	1.56	10.13	4.71	6.60	6.48	5.89	1.68	71.06
1978	5.78	2.55	2.98	3.70	5.76	2.77	3.83	1.61	0.54	0.08	3.10	6.07	38.77
1979	8.72	7.45	8.44	10.73	5.46	3.24	6.48	1.46	8.15	3.19	7.41	2.33	73.06
1980	7.49	3.39	13.87	10.21	9.79	3.30	4.03	1.15	3.62	6.80	3.72	1.10	68.47
1981	1.59	4.65	11.81	1.18	3.66	2.55	3.15	2.21	0.98	3.30	2.60	5.79	43.47
1982	3.16	6.73	4.50	6.52	2.57	4.53	10.18	3.90	0.10	1.69	9.82	9.08	62.78
1983	4.54	9.44	6.62	10.33	7.85	6.71	2.33	3.16	3.45	0.97	8.67	6.62	70.69
1984	2.86	4.83	3.92	5.58	5.06	1.64	6.20	4.83	0.81	9.43	4.87	3.58	53.61
1985	2.45	6.84	3.10	4.57	1.83	2.76	5.29	7.41	5.41	7.46	0.81	4.33	52.26
1986	1.21	2.19	3.67	1.65	7.34	2.21	3.63	5.52	2.54	5.02	10.24	4.16	49.38
1987	8.76	11.33	3.96	0.91	5.73	7.60	1.25	2.69	4.41	0.01	4.05	4.49	55.19
1988	3.14	3.80	4.96	6.33	1.12	0.87	4.62	3.48	9.32	4.29	7.56	7.47	56.96
1989	3.94	3.07	9.82	3.01	7.37	8.91	11.08	0.72	7.10	2.68	5.97	6.68	70.35
1990	11.23	15.95	6.83	4.72	3.77	4.00	3.20	1.61	1.72	0.74	5.14	3.65	62.56
1991	5.78	7.41	6.52	11.78	9.02	3.57	3.80	6.65	6.04	1.13	5.03	6.83	73.56
1992	5.06	5.98	4.30	5.48	1.66	7.48	5.62	10.28	0.89	2.07	10.68	5.94	65.44
1993	11.37	3.11	7.30	4.20	2.91	3.50	2.80	3.52	1.75	5.67	5.01	3.29	54.43
1994	8.25	6.46	6.24	5.43	3.99	5.98	10.62	1.69	2.27	4.76	2.87	6.91	65.47
1995	3.60	3.80	5.24	7.71	5.85	2.29	1.89	4.91	1.44	7.17	4.84	4.83	53.57
1996	5.19	4.12	8.61	4.55	3.12	1.76	9.33	3.75	4.01	2.14	3.45	2.70	52.73
1997	4.44	6.12	3.73	7.82	8.24	5.15	4.84	1.32	1.94	3.68	3.02	4.69	54.99
1998	13.19	5.72	4.22	4.24	1.10	5.33	6.61	3.82	2.40	0.77	3.54	3.82	54.76
1999	7.78	2.34	6.06	1.42	3.80	3.42	2.91	1.39	2.35	4.25	0.65	3.61	39.98
POR= 110 YRS	5.15	5.26	5.95	5.12	4.38	4.23	5.42	3.86	3.18	2.51	3.76	5.33	54.15

WBAN : 13865

AVERAGE TEMPERATURE (°F) 1999 MERIDIAN, MS (MEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	41.3	46.4	54.1	67.9	71.7	77.4	80.6	80.9	79.1	64.1	51.3	51.0	63.8
1971	48.1	48.2	51.7	61.9	67.7	79.7	79.6	79.7	77.0	70.0	53.4	57.5	64.5
1972	51.6	51.1	57.9	65.6	70.5	77.9	79.3	82.0	80.5	66.1	52.2	51.1	65.5
1973	45.4	48.1	62.4	62.3	70.4	79.0	81.8	79.2	78.0	69.4	61.6	49.9	65.6
1974	57.2	51.1	64.3	64.9	74.5	75.7	82.3	81.2	73.4	63.0	55.7	50.0	66.1
1975	50.4	51.7	55.2	60.9	75.7	79.1	81.1	81.1	73.2	63.1	53.9	45.7	64.3
1976	42.6	53.8	58.2	63.2	65.0	73.8	77.9	77.3	72.0	57.8	46.4	43.9	61.0
1977	34.7	47.4	58.0	64.6	72.7	82.0	83.7	82.6	79.2	63.2	58.9	48.2	64.6
1978	38.8	39.3	50.1	62.5	70.1	78.7	81.6	80.8	77.8	62.5	59.1	47.6	62.4
1979	38.0	45.7	56.8	64.4	69.7	75.1	81.7	80.7	75.1	63.8	52.4	47.5	62.6
1980	49.0	46.8	54.7	62.4	72.3	79.0	84.5	83.6	81.1	61.7	54.1	47.4	64.7
1981	43.0	50.7	55.8	70.0	70.0	82.1	84.6	83.4	74.2	64.9	58.5	47.4	65.4
1982	48.2	51.2	61.5	63.6	73.6	79.2	82.3	82.0	75.1	66.9	58.8	56.7	66.6
1983	44.9	48.2	53.9	59.7	69.6	74.8	80.4	81.1	72.3	64.2	53.4	43.8	62.2
1984	40.1	47.9	54.2	60.8	67.9	75.0	78.0	79.5	74.5	71.5	54.5	57.3	63.4
1985	40.2	47.5	62.2	65.5	72.2	79.2	80.7	79.9	74.1	68.4	61.2	42.6	64.5
1986	44.0	52.4	56.5	62.8	72.5	79.6	83.2	79.7	78.3	65.1	59.4	46.5	65.0
1987	44.0	51.0	56.7	62.7	74.8	77.6	81.5	82.0	74.5	58.3	56.0	52.8	64.3
1988	41.7	46.9	55.0	64.5	68.7	78.3	80.1	81.6	76.2	59.7	58.5	48.3	63.3
1989	52.2	49.0	58.1	62.3	70.4	78.1	80.6	80.9	74.6	62.9	56.2	40.1	63.8
1990	50.9	56.6	60.5	63.9	71.7	79.9	81.0	82.5	78.6	64.4	58.1	53.0	66.8
1991	47.2	52.3	59.0	68.3	76.0	79.1	82.1	80.9	76.4	66.9	51.7	51.9	66.0
1992	45.8	53.5	57.1	64.1	70.7	77.9	82.3	78.8	76.4	64.7	53.5	49.9	64.6
1993	50.4	49.1	53.5	60.7	70.8	80.2	83.5	83.5	76.5	64.7	54.1	48.0	64.6
1994	43.0	51.5	57.9	68.1	71.9	81.1	80.5	80.9	75.7	67.0	60.4	52.7	65.9
1995	48.2	50.5	60.2	66.3	75.0	77.9	82.2	82.7	75.0	63.0	50.8	46.6	64.9
1996	44.9	48.4	52.3	60.6	74.4	77.5	80.6	78.5	73.1	64.2	55.1	50.3	63.3
1997	46.8	51.9	61.6	59.7	69.4	76.5	81.1	78.8	75.9	63.2	50.2	44.9	63.3
1998	48.0	49.9	55.2	61.9	73.1	80.4	82.1	80.9	78.5	67.3	58.1	51.4	65.6
1999	50.7	53.0	53.9	67.7	70.4	77.7	81.7	83.5	73.6	64.5	55.3	47.5	65.0
POR= 110 YRS	46.8	49.6	56.8	64.2	71.6	78.5	80.7	80.3	76.3	65.3	55.3	48.5	64.5

HEATING DEGREE DAYS (base 65°F) 1999 MERIDIAN, MS (MEI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	1	87	404	432	521	468	408	142	40	0	2503
1971-72	0	0	0	17	359	244	418	404	231	81	3	0	1757
1972-73	0	0	5	79	401	434	602	467	125	147	19	0	2279
1973-74	0	0	0	49	174	464	259	390	125	76	0	0	1537
1974-75	0	0	8	103	295	461	449	370	317	164	0	0	2167
1975-76	0	0	22	108	349	589	686	323	236	80	51	0	2444
1976-77	0	0	3	235	553	649	932	487	231	53	4	0	3147
1977-78	0	0	0	108	200	517	808	714	457	111	26	0	2941
1978-79	0	0	0	110	178	547	830	536	261	69	15	0	2546
1979-80	0	0	0	93	374	536	489	540	325	106	3	0	2466
1980-81	0	0	0	143	325	539	677	398	290	21	15	0	2408
1981-82	0	0	9	96	221	545	541	381	198	108	1	0	2100
1982-83	0	0	8	79	226	318	616	461	340	170	15	0	2233
1983-84	0	0	21	92	350	658	766	490	344	173	42	3	2939
1984-85	0	0	8	30	323	251	764	488	137	80	2	0	2083
1985-86	0	0	11	53	154	689	644	359	274	100	9	0	2293
1986-87	0	0	0	99	196	566	644	385	258	142	0	0	2290
1987-88	0	0	0	215	282	387	714	517	308	73	10	0	2506
1988-89	0	0	1	179	223	511	401	469	248	148	40	0	2220
1989-90	0	0	11	125	282	765	433	255	185	110	12	0	2178
1990-91	0	0	7	121	219	391	543	349	223	27	1	0	1881
1991-92	0	0	3	65	414	411	587	327	246	111	21	0	2185
1992-93	0	0	0	50	351	461	444	441	353	153	7	0	2260
1993-94	0	0	3	125	350	521	676	379	239	64	2	0	2359
1994-95	0	0	1	55	161	379	520	401	187	50	12	0	1766
1995-96	0	0	3	122	422	568	613	492	408	181	6	0	2815
1996-97	0	0	11	98	314	458	568	372	141	173	18	0	2153
1997-98	0	0	0	151	435	615	519	419	335	130	3	1	2608
1998-99	0	0	0	56	209	443	444	340	336	68	6	0	1902
1999-	0	0	12	103	284	537							

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COOLING DEGREE DAYS (base 65°F) 1999 MERIDIAN, MS (MEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	4	0	0	163	238	377	489	503	432	67	0	4	2277
1971	5	2	4	57	129	450	462	460	367	177	18	19	2150
1972	8	6	21	106	182	393	449	536	475	121	21	10	2328
1973	0	0	49	73	193	426	526	445	399	191	76	2	2380
1974	27	6	106	79	301	329	542	507	269	49	22	3	2240
1975	4	1	23	50	342	430	507	506	274	57	22	0	2216
1976	0	8	33	36	57	268	409	389	220	18	0	0	1438
1977	0	0	23	50	250	517	584	554	433	59	24	4	2498
1978	1	0	0	44	193	418	522	498	390	40	9	15	2130
1979	0	0	13	57	168	309	526	493	307	63	6	0	1942
1980	0	16	10	35	233	425	612	586	487	45	4	0	2453
1981	0	1	12	178	175	517	612	576	292	100	33	5	2501
1982	28	0	94	73	274	434	541	532	317	146	46	70	2555
1983	0	0	1	18	163	297	484	505	248	73	9	5	1803
1984	0	1	17	51	142	310	411	456	299	237	14	19	1957
1985	0	5	56	102	233	435	494	472	289	165	47	4	2302
1986	0	13	14	39	247	444	573	460	405	111	38	1	2345
1987	0	0	6	76	310	388	514	533	289	14	16	13	2159
1988	0	2	7	66	131	408	475	519	345	20	35	0	2008
1989	9	26	42	75	215	399	493	500	305	67	26	0	2157
1990	3	29	51	85	226	454	502	549	423	112	19	26	2479
1991	0	2	47	131	349	430	537	502	352	129	21	13	2513
1992	0	0	6	88	208	392	542	434	349	50	13	0	2082
1993	0	4	2	32	193	459	581	581	356	121	27	0	2356
1994	1	10	23	165	222	491	486	498	331	126	29	5	2387
1995	5	2	41	94	329	393	542	556	308	68	6	4	2348
1996	0	21	19	56	302	384	491	427	261	78	24	6	2069
1997	10	12	43	19	163	354	505	433	334	104	0	0	1977
1998	0	0	38	46	265	470	538	499	413	132	6	30	2437
1999	10	12	0	157	179	389	529	584	275	93	0	1	2229

SNOWFALL (inches) 1999 MERIDIAN, MS (MEI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1971-72	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1973-74	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
1974-75	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1975-76	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1976-77	0.0	0.0	0.0	0.0	T	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	1.0	T	T	0.0	0.0	0.0	1.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	T	0.0	0.0	0.0	1.8
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1983-84	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1984-85	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	T
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.7	0.0	0.0	5.0
1987-88	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
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	T
1989-90	T	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	5.7
1993-94	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	T	0.0	0.0	0.8
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	T						
1996-97													
1997-98													
1998-99													
1999-													
POR= 50 YRS	T	0.0	0.0	0.0	T	0.4	0.4	0.2	0.1	0.1	T	0.0	1.2

WBAN : 13865

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999 MERIDIAN, MISSISSIPPI (MEI)

Mild winters and warm summers describe the general temperature pattern for Meridian. However, the terrain features exert a pronounced influence, particularly during the winter months. The hills to the north, east, and west leave Meridian in a valley. During periods of near calm winds, cold air drainage brings temperatures which may be as much as 10 degrees lower than for other locations in the area. January is usually the coldest month, followed closely by December and February. Sub-zero temperatures are very rare. Summer temperatures are consistently warm. Prolonged periods with above 100 degrees readings are rare.

Precipitation is distributed evenly throughout the year. The widespread rains of the winter months reach a maximum in March. Spring showers reach a minimum in May, followed by localized summer thunderstorms in July and August. The driest period of the year is in late September and October, followed by the onset of winter-type precipitation in late November. This pattern is ideally suited to agricultural operations since the spring rains are conducive to crop growth in the early stages and the dry period in the fall is ideal for harvesting operations. Summer thunderstorms are highly localized and occur on one in three days during July and August.

The long growing season averages 235 days, nearly eight months. The average date of the first occurrence of a temperature as low as 32 degrees in autumn is November 7, and the occurrence of 32 degrees before October 20 is very rare. The average date of the last occurrence of 32 degrees in spring is March 19, although 32 degrees has been recorded in late April. Some portions of the area not affected by cold air drainage may have slightly longer average growing seasons.

The nearby Gulf of Mexico provides an abundant supply of moisture to the Meridian area and results in high humidities for prolonged periods.

Humidities of greater than 90 percent occur nightly during every month except for short periods during the autumn and winter when cool continental air is flowing from the north. Lowest humidities are observed during the early afternoons, but seldom reach below 40 percent except for short periods.

March is generally the windiest month of the year due to the frequent occurrence of late winter and spring storms across the Gulf States. October has the lowest average wind speed. Prevailing winds are from the north and northeast during the autumn and winter months, and from the south and southwest during the spring and summer. Local thunderstorms produce short periods of high winds during the spring and summer months and can be quite destructive. Severe thunderstorms and tornadoes have caused considerable loss of life and property in this area. The highest sustained wind speed recorded was 50 mph, but there have been short periods with winds in excess of 50 mph.

Fifty years of record show that December, January, and February receive the smallest amount of possible sunshine. About 40 to 45 percent of the days during these months are cloudy. Sunshine reaches a maximum during the dry period in the fall, September and October. These months are characterized by long periods of cloudless skies.

Thunderstorms normally occur during every month in the year, but most occur during the summer months. These summer thunderstorms provide most of the precipitation during the crop growing season. Cloudiness associated with these thunderstorms brings relief from the oppressive heat. Although thunderstorm occurrence is high, hail damage is infrequent and usually confined to a small area.

STATION LOCATION

MERIDIAN, MISSISSIPPI

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										REMARKS		
						SEA LEVEL	GROUND										AUC	
							WIND	EMER	EMER	EMER	EMER	EMER	EMER	EMER	EMER			EMER
<u>CITY</u> Walker Hall 2109-1/2 4th Street	8/28/89	8/31/96		32°21'	88°41'		72	68	68									
<u>COOPERATIVE</u> Corner 19th Avenue and 19th Street	9/01/96	12/28/98	1/2 mi. N	32°21'	88°40'													Cotton region temperature and rainfall observations.
<u>CITY</u> Federal Building 22nd Avenue & 8th St.	12/29/98	10/31/33	1/4 mi. S	32°21'	88°40'	338	95	84	84	64	64							WBO re-established.
New Post Office Bldg. 2100 block of 9th St.	11/01/33	10/01/48	500 ft. N	32°21'	88°40'	343	92	68	67	60								Consolidated with the airport 10/1/48.
<u>AIRPORT</u> Administration Building Key Field	4/01/38	3/26/45		32°20'	88°45'	294	42	22	22									CAA observations through 2/29/44.
Administration Building Key Field	3/26/45	6/29/59	60 ft. S	32°20'	88°45'	294	42	5	4			3						
Administration Bldg. + Key Field	6/30/59	07/01/95	1/4 mi. S	32°20'	88°45'	292	20	5	5	NA	NA	3	3	NA	NA			New Administration Building.
+ Nat. Weather Service Bldg. (150' N of terminal) eff. 11/76.						b290	g40	d5	d5	h5	e5	c4	d4	a5	r5	j5		a - Commissioned 1400 feet SSW of thermometer site 6/1/64; moved 1450 feet NW 8/24/67.
NWS/FAA Building eff. 6/79.																		b - Effective 6/1/64.
																		c - Effective 6/11/65.
																		d - Minor relocation 7/22/76.
																		e - Added 7/22/76.
																		f - Type change 7/18/85.
																		g - Raised & type change 4/1/87.
																		h - type change 6/18/87.
																		j - Minor relocation 10/24/90.
Key Field	07/01/95	Present	NA	32°20'	88°45'	293											S	ASOS Commissioned 07/01/95

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

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