

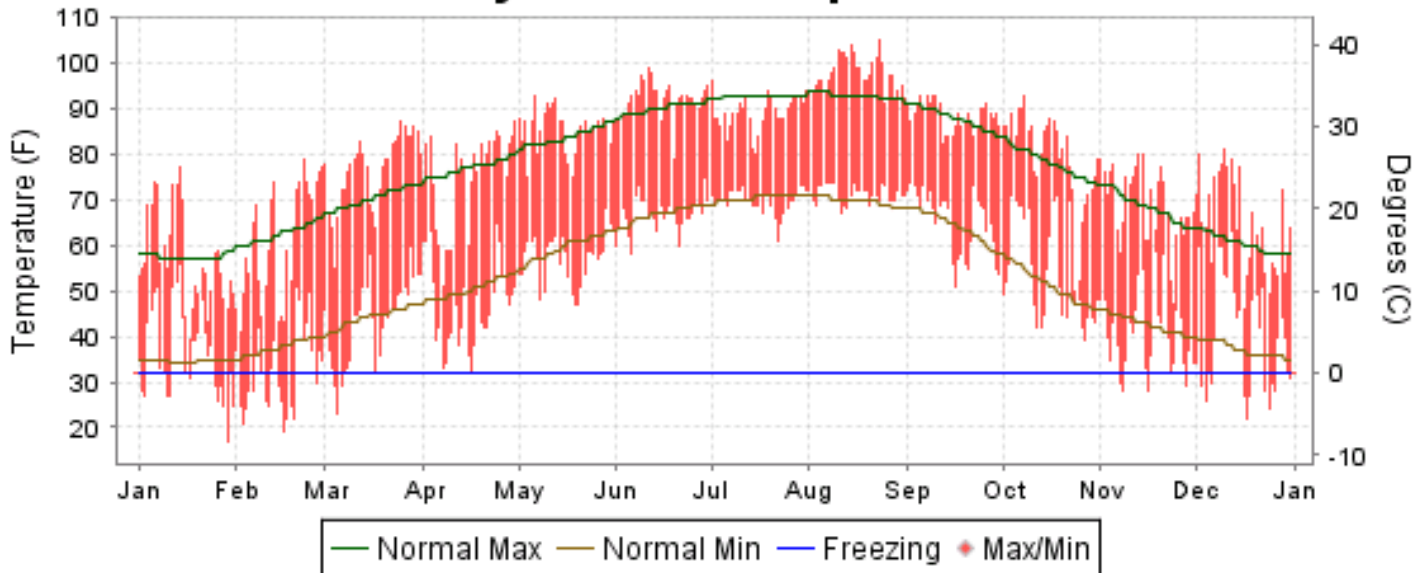


2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

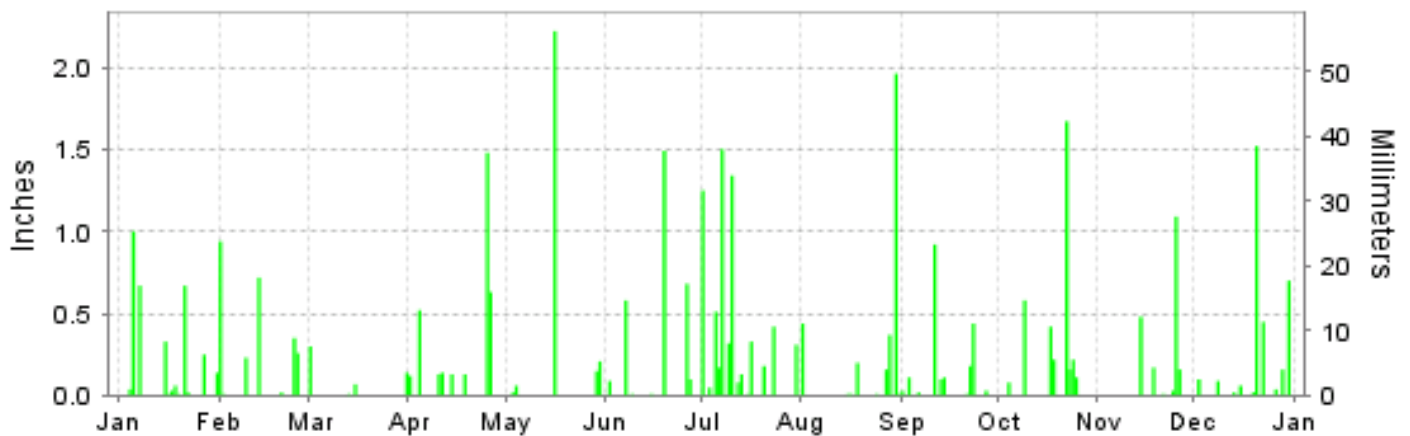
ISSN 0198-2818

MERIDIAN, MISSISSIPPI (KMEI)

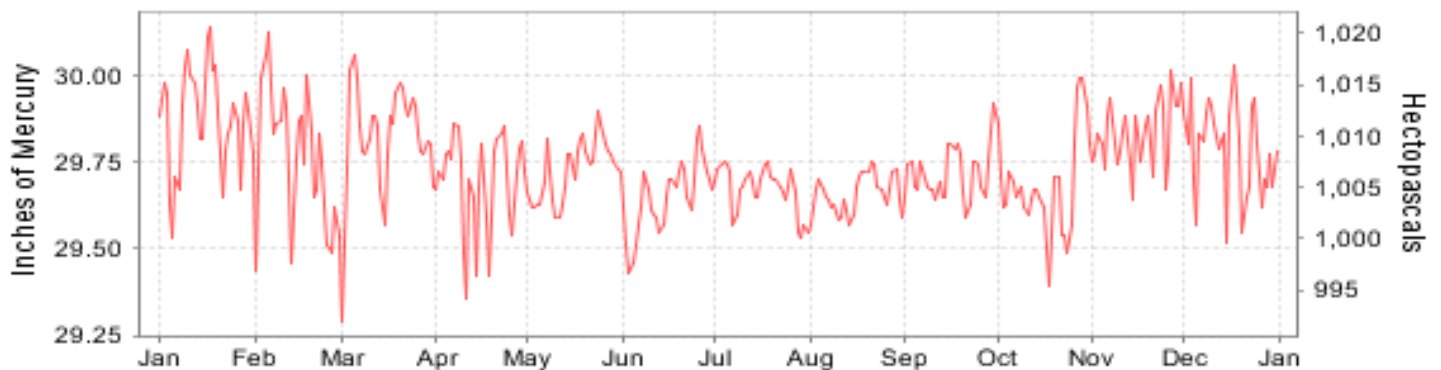
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2007

MERIDIAN (KMEI)

LATITUDE: 32 ° 19'N LONGITUDE: -88 ° 45'W ELEVATION (FT): GRND: 290 BARO: 292 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	57.2	60.8	76.6	74.9	85.4	92.1	89.0	97.6	88.4	79.4	68.8	64.8	77.9	
	HIGHEST DAILY MAXIMUM	77	79	87	87	93	99	96	105	93	93	80	81	105	
	DATE OF OCCURRENCE	14	22	25	30	06	11	01	27+	10+	08	14+	10	AUG 27+	
	MEAN DAILY MINIMUM	36.5	32.5	43.5	46.5	57.3	66.7	69.7	71.4	65.2	54.0	40.5	40.1	52.0	
	LOWEST DAILY MINIMUM	17	19	23	32	47	58	61	67	51	39	28	22	17	
	DATE OF OCCURRENCE	29	16	05	16	20+	06	22	11	16	27	16+	17	JAN 29	
	AVERAGE DRY BULB	46.9	46.7	60.1	60.7	71.4	79.4	79.4	84.5	76.8	66.7	54.7	52.5	65.0	
	MEAN WET BULB	42.9	40.8	52.5	54.1	63.5	69.9	72.4	74.6	69.8	60.7	49.2	48.6	58.3	
	MEAN DEW POINT	37.9	33.1	45.2	47.2	58.1	65.0	69.6	71.0	66.2	57.1	44.4	44.4	53.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	5	24	15	31	12	3	0	0	90	
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 32°	14	15	5	1	0	0	0	0	0	0	5	13	53		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	558	506	176	166	4	0	0	0	0	95	309	401	2215	
	COOLING DEGREE DAYS	2	0	32	45	209	441	454	612	360	154	6	21	2336	
RH	MEAN (PERCENT)	74	64	64	64	67	66	78	71	75	77	75	77	71	
	HOUR 00 LST	83	78	79	82	86	83	90	88	89	91	89	87	85	
	HOUR 06 LST	86	81	89	83	87	86	91	92	93	92	89	89	88	
	HOUR 12 LST	60	47	39	43	44	45	59	47	55	56	50	61	51	
	HOUR 18 LST	71	53	44	47	52	52	72	59	65	74	78	76	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	4	3	3	1	3	1	3	1	4	9	35	
	THUNDERSTORMS	0	0	0	1	0	3	2	4	0	0	0	1	11	
CLOUDNESS	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.)	29.88	29.57	29.82	29.69	29.73	29.65	29.67	29.65	29.72	29.68	29.83	29.79	29.72	
	MEAN SEA-LEVEL PRESS. (IN.)	30.21	29.87	30.15	30.02	30.06	29.98	30.00	29.98	30.04	30.01	30.16	30.13	30.05	
WINDS	RESULTANT SPEED (MPH)	0.9	1.0	2.2	1.3	1.3	1.3	0.9	0.6	2.0	1.1	0.8	1.1	0.3	
	RES. DIR. (TENS OF DEGS.)	35	27	19	27	11	22	24	20	07	09	34	20	20	
	MEAN SPEED (MPH)	6.2	7.7	5.4	6.4	4.7	4.5	3.4	3.0	4.3	4.8	4.9	5.6	5.1	
	PREVAIL.DIR.(TENS OF DEGS.)	19	20	20	19	36	20	19	20	05	35	19	19	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	31	35	29	22	31	41	25	23	22	24	29	41	
	DIR. (TENS OF DEGS.)	21	19	30	36	02	19	23	10	13	17	31	30	23	
	DATE OF OCCURRENCE	05	24	01	04	17	07	10	18	23	22	22	15	JUL 10	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	41	43	46	38	26	38	61	35	30	31	33	39	61	
DIR. (TENS OF DEGS.)	21	26	30	31	02	19	22	11	13	18	34	31	22		
DATE OF OCCURRENCE	05	13	01	15	17	07	10	18	23	22	14	15	JUL 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.23	2.53	0.52	3.28	2.66	2.96	6.60	3.17	1.95	3.46	1.94	3.16	35.46	
	GREATEST 24-HOUR (IN.)	1.04	1.08	0.30	2.11	2.22	1.49	1.50	1.96	0.92	1.76	1.25	1.52	2.22	
	DATE OF OCCURRENCE	04-05	31-01	01	25-26	16	19	07	30	11	22-23	25-26	20	MAY 16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	12	7	4	8	5	7	14	9	10	8	6	10	100	
PRECIPITATION 0.10	6	5	2	8	3	4	11	5	6	7	4	5	66		
PRECIPITATION 1.00	1	0	0	1	1	1	3	1	0	1	1	1	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0															

NORMALS, MEANS, AND EXTREMES MERIDIAN (KMEI)

LATITUDE: 32 ° 19'N
LONGITUDE: -88 ° 45'W
ELEVATION (FT): GRND: 290 BARO: 292
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	57.5	62.6	70.3	77.1	83.9	90.1	92.9	92.9	88.0	78.3	68.5	60.5	76.9
	MEAN DAILY MAXIMUM	63	57.5	61.5	69.3	77.3	84.1	89.9	92.3	92.2	87.0	78.1	67.7	59.8	76.4
	HIGHEST DAILY MAXIMUM	62	83	85	90	95	99	104	107	106	105	97	87	84	107
	YEAR OF OCCURRENCE		1950	1982	1974	1987	1951	1988	1980	2000	1990	1954	2005	1998	JUL 1980
	MEAN OF EXTREME MAXS.	63	75.0	78.2	83.7	87.6	92.3	96.6	98.3	97.8	95.0	89.1	82.1	76.1	87.7
	NORMAL DAILY MINIMUM	30	34.7	37.7	44.3	50.4	59.5	66.8	70.5	69.8	64.2	51.3	42.8	37.2	52.4
	MEAN DAILY MINIMUM	63	34.9	37.3	43.8	51.1	59.4	66.5	70.1	69.4	63.8	51.1	41.8	36.4	52.1
	LOWEST DAILY MINIMUM	62	0	8	15	28	38	42	55	51	34	24	16	2	0
	YEAR OF OCCURRENCE		1962	1996	1980	1987	1971	1984	1967	2004	1967	1952	1976	1989	JAN 1962
	MEAN OF EXTREME MINS.	63	17.0	20.7	26.9	34.8	44.9	55.5	63.5	61.5	49.4	34.3	25.6	19.5	37.8
	NORMAL DRY BULB	30	46.1	50.2	57.3	63.8	71.7	78.5	81.7	81.4	76.1	64.8	55.7	48.9	64.7
	MEAN DRY BULB	63	46.2	49.4	56.6	64.2	71.8	78.3	81.2	80.8	75.4	64.6	54.8	48.1	64.3
	MEAN WET BULB	24	41.7	44.8	50.4	57.1	64.9	70.6	73.6	73.1	68.1	58.6	50.3	43.6	58.1
	MEAN DEW POINT	24	37.5	40.5	45.7	53.1	61.8	68.2	71.6	70.8	65.3	55.4	46.6	39.7	54.7
	NORMAL NO. DAYS WITH:														
MAXIMUM >= 90	30	0.0	0.0	*	0.3	4.2	16.4	24.4	24.2	12.9	1.0	0.0	0.0	83.4	
MAXIMUM <= 32	30	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	
MINIMUM <= 32	30	15.1	10.0	4.1	0.5	0.0	0.0	0.0	0.0	0.0	0.4	6.1	12.8	49.0	
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	598	434	274	111	14	0	0	0	6	106	303	506	2352
	NORMAL COOLING DEG. DAYS	30	4	6	26	70	213	400	509	495	331	91	20	8	2173
RH	NORMAL (PERCENT)	30	74	72	70	72	74	75	77	76	75	75	75	75	74
	HOUR 00 LST	30	83	82	82	87	89	90	91	91	89	89	87	83	87
	HOUR 06 LST	30	86	86	88	91	92	91	93	93	92	91	89	86	90
	HOUR 12 LST	30	61	56	53	51	55	56	58	55	55	51	55	59	55
	HOUR 18 LST	30	69	60	56	55	60	63	67	65	68	73	73	71	65
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY <= 1/4 MI)	44	3.0	2.5	2.8	3.0	2.7	2.0	2.6	2.5	2.3	3.1	4.1	3.5	34.1
	THUNDERSTORMS	60	1.8	2.7	4.9	5.3	5.9	7.7	11.5	8.4	3.8	1.7	2.3	1.9	57.9
CLOUDNESS	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)	24	29.83	29.79	29.73	29.69	29.68	29.67	29.71	29.69	29.69	29.75	29.80	29.83	29.74
	MEAN SEA-LEVEL PRES. (IN)	24	30.19	30.11	30.06	30.02	30.00	29.99	30.03	30.01	30.01	30.08	30.13	30.16	30.07
WINDS	MEAN SPEED (MPH)	24	7.1	7.5	7.5	7.0	6.0	5.1	4.7	4.5	5.3	5.3	6.1	6.5	6.1
	PREVAIL. DIR (TENS OF DEGS)	33	36	36	19	20	21	21	21	20	36	36	36	36	20
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	12	41	39	41	48	31	36	51	39	43	39	37	37	51
	DIR. (TENS OF DEGS)		33	05	18	19	01	31	04	08	01	18	19	21	04
	YEAR OF OCCURRENCE		2002	2004	2006	1996	2006	1998	2002	2005	2004	2006	2001	2004	JUL 2002
	MAXIMUM 5-SECOND														
SPEED (MPH)	12	58	46	52	57	45	52	67	52	54	46	47	48	67	
DIR. (TENS OF DEGS)		32	26	17	18	33	03	04	09	36	18	23	08	04	
YEAR OF OCCURRENCE		2002	2004	2006	1996	2003	1997	2002	1998	2004	2006	2003	2002	JUL 2002	
PRECIPITATION	NORMAL (IN)	30	5.92	5.35	6.93	5.62	4.87	3.99	5.45	3.34	3.64	3.28	4.95	5.31	58.65
	MAXIMUM MONTHLY (IN)	62	13.19	15.95	16.47	16.82	9.79	10.98	15.29	10.28	10.78	10.65	13.93	14.79	16.82
	YEAR OF OCCURRENCE		1998	1990	1976	1964	1980	2004	1959	1992	2002	1970	1948	1973	APR 1964
	MINIMUM MONTHLY (IN)	62	1.21	1.46	0.52	0.91	0.27	0.35	1.06	0.72	0.10	0.00	0.38	1.10	0.00
	YEAR OF OCCURRENCE		1986	2000	2007	1987	1951	2006	2000	1989	1982	1963	1956	1980	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	62	5.74	9.23	7.00	6.36	5.84	3.12	6.95	5.29	5.21	6.04	4.93	8.13	9.23
	YEAR OF OCCURRENCE		1987	1990	1979	1964	1952	1992	1959	1992	1988	1970	2001	1973	FEB 1990
	NORMAL NO. DAYS WITH:														
PRECIPITATION >= 0.01	30	11.1	9.0	10.1	8.9	9.1	9.3	11.3	8.6	7.8	6.2	8.4	10.0	109.8	
PRECIPITATION >= 1.00	30	1.7	1.8	2.4	2.1	1.8	1.0	1.6	0.9	1.0	1.1	1.8	1.7	18.9	
SNOWFALL	NORMAL (IN)	30	0.4	0.*	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.*	0.7
	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	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	

PRECIPITATION (inches) 2007 MERIDIAN (KMEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	3.11	1.46	3.82	4.45	3.53	4.21	1.06	1.79	3.50	1.39	6.16	4.04	38.52
2001	5.98	4.26	7.92	4.51	4.00	6.39	3.45	9.32	6.14	5.32	6.40	5.33	69.02
2002	5.96	2.84	4.54	1.56	1.95	2.81	4.31	2.34	10.78	10.31	3.34	8.22	58.96
2003	1.58	6.78	3.71	10.25	6.01	10.94	10.05	7.52	1.98	4.90	5.62	2.63	71.97
2004	3.04	7.99	1.97	3.21	4.01	10.98	6.00	2.63	3.47	6.51	10.59	4.15	64.55
2005	3.94	6.67	6.58	5.95	2.64	3.63	9.62	2.23	3.35	0.03	2.39	3.36	50.39
2006	5.06	6.78	5.43	3.73	6.99	0.35	3.79	2.58	1.22	5.28	2.24	5.05	48.50
2007	3.23	2.53	0.52	3.28	2.66	2.96	6.60	3.17	1.95	3.46	1.94	3.16	35.46
POR= 63 YRS	5.19	5.20	6.25	5.27	4.35	4.02	5.35	3.67	3.52	3.02	4.37	5.31	55.52

WBAN : 13865

AVERAGE TEMPERATURE (°F) 2007 MERIDIAN (KMEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	47.9	54.2	59.4	61.1	74.5	77.7	83.0	83.2	75.3	64.9	52.5	39.1	64.4
2001	42.0	53.2	51.6	65.9	71.2	76.3	81.0	79.6	73.4	61.2	58.5	51.5	63.8
2002	48.7	45.9	56.7	66.9	71.1	77.9	81.3	80.8	78.7	69.3	52.7	47.4	64.8
2003	40.7	48.6	57.5	64.1	73.5	77.0	79.7	80.6	73.3	64.0	58.1	43.8	63.4
2004	45.9	46.4	59.9	62.4	72.6	77.7	80.1	76.6	74.5	70.8	59.0	45.9	64.3
2005	50.4	52.1	54.2	62.2	69.4	77.6	81.4	81.8	77.6	64.8	57.2	45.5	64.5
2006	52.7	48.2	57.9	68.9	72.5	79.6	83.2	83.0	74.2	63.9	53.2	48.8	65.5
2007	46.9	46.7	60.1	60.7	71.4	79.4	79.4	84.5	76.8	66.7	54.7	52.5	65.0
POR= 63 YRS	46.2	49.4	56.6	64.2	71.8	78.3	81.2	80.8	75.4	64.6	54.8	48.1	64.3

HEATING DEGREE DAYS (base 65°F) 2007 MERIDIAN (KMEI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0	0	12	103	284	537	527	324	187	126	0	0	2100
2000-01	0	0	7	74	398	796	704	337	411	82	1	0	2810
2001-02	0	0	21	170	208	416	523	528	315	67	34	0	2282
2002-03	0	0	0	38	374	540	747	455	231	78	1	0	2464
2003-04	0	0	13	72	230	649	595	534	173	128	24	0	2418
2004-05	0	0	0	21	214	590	452	360	337	111	31	0	2116
2005-06	0	0	0	120	278	597	375	470	251	28	10	0	2129
2006-07	0	0	5	128	354	494	558	506	176	166	4	0	2391
2007-	0	0	0	95	309	401							

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COOLING DEGREE DAYS (base 65°F) 2007 MERIDIAN (KMEI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	6	16	20	19	304	389	564	573	321	79	31	0	2322
2001	0	13	0	117	200	346	504	462	280	61	17	3	2003
2002	21	0	68	134	231	391	513	497	418	175	12	0	2460
2003	0	3	5	60	271	364	464	493	271	48	29	0	2008
2004	10	0	22	57	265	389	475	366	294	209	42	4	2133
2005	7	4	11	34	175	383	516	527	386	123	53	0	2219
2006	2	4	36	155	252	445	572	568	288	103	5	0	2430
2007	2	0	32	45	209	441	454	612	360	154	6	21	2336

SNOWFALL (inches) 2007 MERIDIAN (KMEI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 62 YRS	T	0.0	0.0	0.0	T	0.3	0.4	0.1	0.1	T	T	0.0	0.9

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 (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.</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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> <p>NOTE: 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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2007 MERIDIAN MISSISSIPPI (KMEI)

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

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		ELEVATION ABOVE										REMARKS
				NORTH	WEST	SEA LEVEL	GROUND							HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE			
*NOTE:																
AIRPORT																
Administration Building Key Field	4/01/38	3/26/45		32° 20'	88° 45'	294	42	22	22					3	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	3		
Administration Bldg. + Key Field	6/30/59	07/01/95	1/4 mi. S	32° 20'	88° 45'	292 b290	20 g40	5 d5	5 d5 h5	NA	NA e5	3 c4 d4	3 d4	NA a5 f5 j5	NA New Administration Building. a. Commissioned 1400 feet SSW of thermometer site 6/1/64; moved 1450 feet NW 8/24/67. 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.	
+ Nat. Weather Service Bldg (150' N of terminal) eff. 11/76.																
NWS/FAA Building eff. 6/79.																
Key Field	07/01/95	Present	NA	32° 20'	88° 45'	k289								S	ASOS Commissioned 07/01/95 k. Ground elevation.	

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* NOTES: For earlier station history see previous edition.