

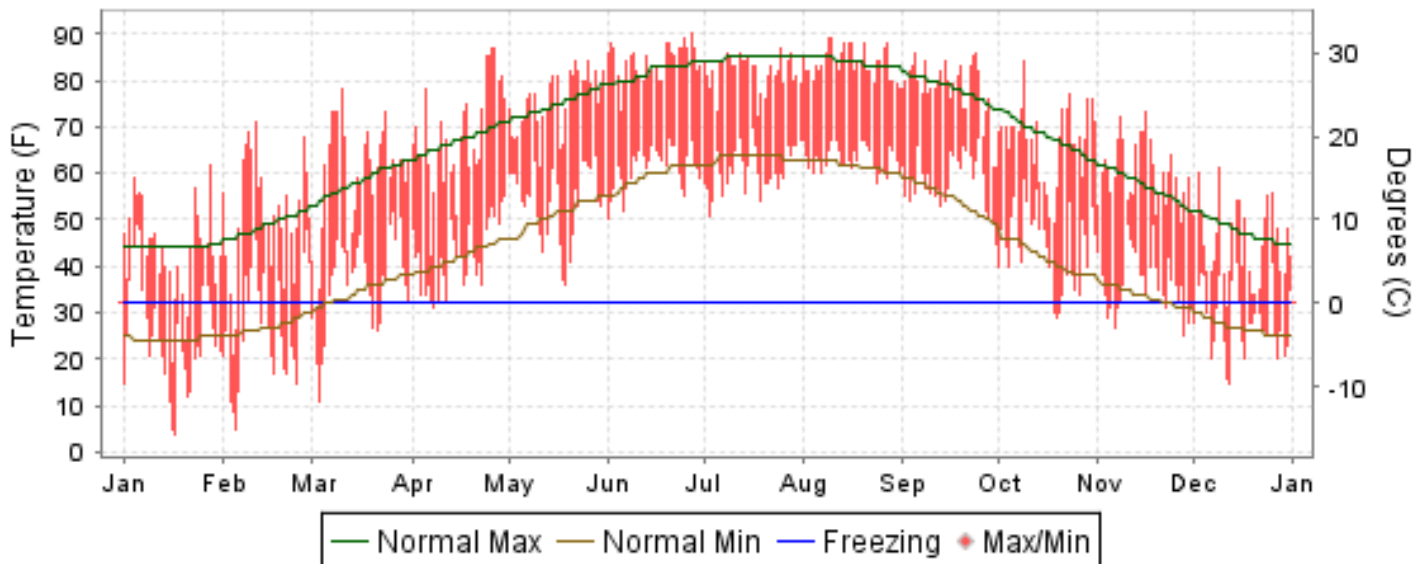


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

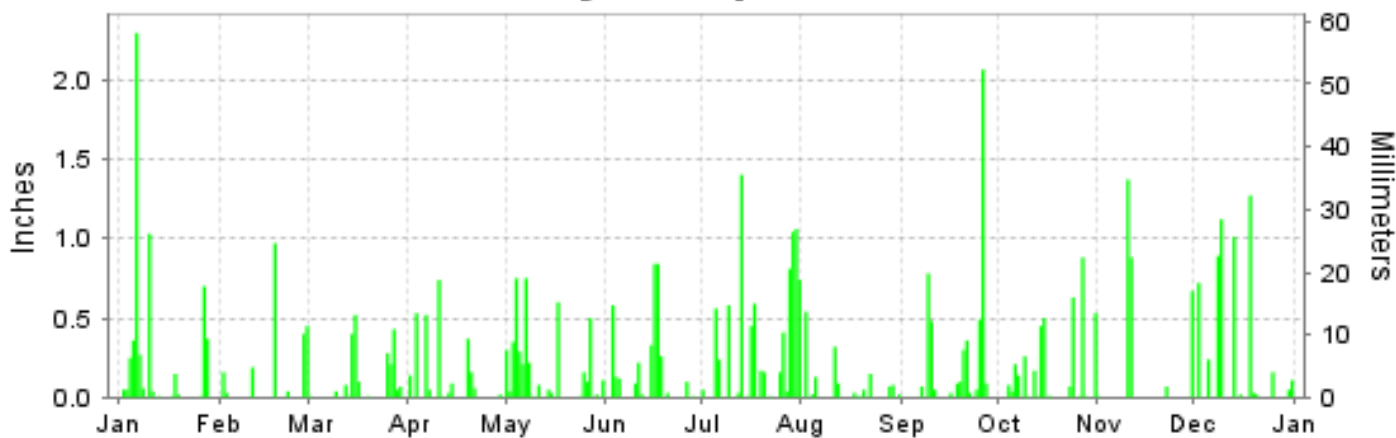
BRISTOL/JHNSN CTY/KNGSPRT, TENNESSEE (KTRI)

ISSN 0198-4764

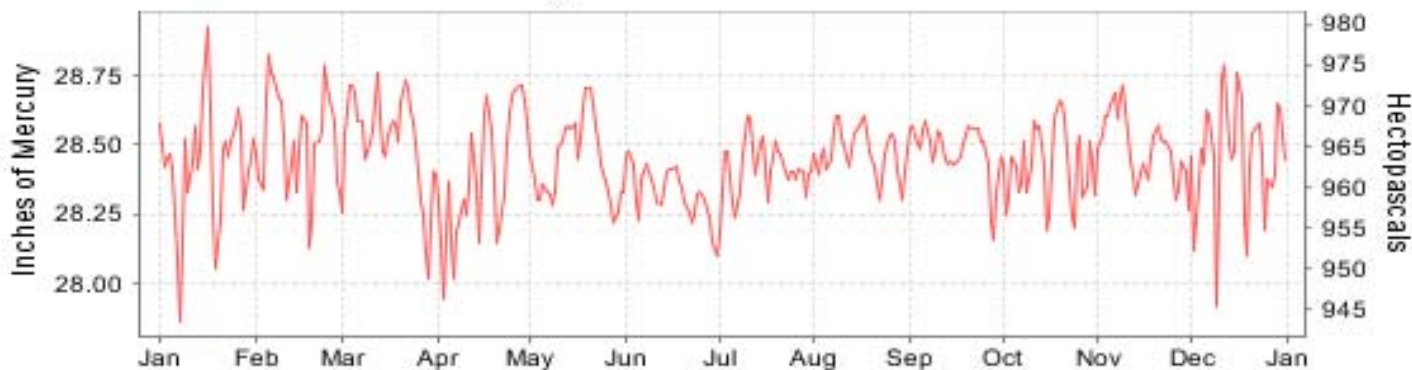
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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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 2009

BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

LATITUDE: 36° 28'N LONGITUDE: -82° 23'W ELEVATION (FT): GRND: 1500 BARO: 1539 TIME ZONE: EASTERN (UTC -5) WBAN: 13877

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.5	50.7	60.0	68.6	75.6	84.1	81.8	83.8	78.4	67.0	60.0	45.0	66.5	
	HIGHEST DAILY MAXIMUM	62	71	78	87	84	90	87	89	86	84	73	61	90	
	DATE OF OCCURRENCE	28	11	10	27+	26+	27	25	10+	24+	09	16	09	JUN 27	
	MEAN DAILY MINIMUM	25.0	26.7	36.3	42.2	53.9	61.2	60.8	63.2	58.5	44.2	36.3	28.3	44.7	
	LOWEST DAILY MINIMUM	4	5	11	31	36	50	51	58	45	29	25	15	4	
	DATE OF OCCURRENCE	17	05	03	08	19	01	03	24	30	19	28	12	JAN 17	
	AVERAGE DRY BULB	34.3	38.7	48.2	55.4	64.8	72.7	71.3	73.5	68.5	55.6	48.2	36.7	55.7	
	MEAN WET BULB	31.3	33.8	42.7	48.8	59.2	65.9	65.3	67.4	62.6	51.2	43.1	33.5	50.4	
	MEAN DEW POINT	25.6	26.6	36.3	42.1	55.2	62.8	62.2	64.7	59.6	47.6	38.4	28.4	45.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	MAXIMUM <= 32°	8	2	1	0	0	0	0	0	0	0	0	1	12	
MINIMUM <= 32°	23	19	9	4	0	0	0	0	0	3	9	23	90		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	945	728	514	300	71	0	0	0	27	292	496	871	4244	
	COOLING DEGREE DAYS	0	0	0	18	71	234	202	271	137	8	0	0	941	
RH	MEAN (PERCENT)	73	66	68	65	74	76	77	79	79	78	74	75	74	
	HOUR 01 LST	79	75	79	79	86	93	92	94	90	90	86	80	85	
	HOUR 07 LST	82	79	82	75	82	83	87	90	88	90	90	85	84	
	HOUR 13 LST	61	51	54	48	57	53	57	56	58	58	53	62	56	
	HOUR 19 LST	72	62	64	57	72	72	73	79	79	79	72	72	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	2	3	0	5	8	4	4	4	4	7	5	49	
	THUNDERSTORMS	1	1	0	4	9	9	10	6	5	0	0	0	45	
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.)	28.43	28.51	28.51	28.39	28.48	28.33	28.40	28.48	28.48	28.43	28.48	28.45	28.45	
	MEAN SEA-LEVEL PRESS. (IN.)	30.08	30.16	30.13	30.00	30.03	29.89	29.98	30.05	30.06	30.03	30.11	30.10	30.05	
WINDS	RESULTANT SPEED (MPH)	3.6	3.6	1.0	3.3	1.8	1.9	2.0	1.2	0.6	1.1	0.6	2.4	1.9	
	RES. DIR. (TENS OF DEGS.)	26	26	27	24	24	27	26	26	27	26	26	25	26	
	MEAN SPEED (MPH)	5.1	5.2	4.6	5.6	3.8	3.1	3.4	2.4	2.3	3.4	3.0	4.8	3.9	
	PREVAIL.DIR.(TENS OF DEGS.)	26	27	24	26	23	26	23	26	08	23	24	24	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	40	37	29	35	26	40	28	24	32	24	28	46	46	
	DIR. (TENS OF DEGS.)	24	25	23	28	30	22	22	20	23	17	26	24	24	
	DATE OF OCCURRENCE	07	11	29	06	01	11	28	18	09	23	27	09	DEC 09	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	49	52	38	43	33	55	43	31	44	33	35	58	58	
DIR. (TENS OF DEGS.)	25	25	14	24	29	34	30	20	23	17	26	23	23		
DATE OF OCCURRENCE	07	11	28	21	01	18	25	18	09	23	27	09	DEC 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.67	2.24	2.21	2.72	4.58	3.57	8.51	1.52	4.98	4.02	3.00	5.64	48.66	
	GREATEST 24-HOUR (IN.)	2.29	0.97	0.70	0.75	0.93	1.36	1.51	0.54	2.35	0.89	2.25	2.01	2.35	
	DATE OF OCCURRENCE	06	18	14-15	10-11	04-05	16-17	28-29	02	25-26	26-27	10-11	08-09	SEP 25-26	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	16	7	13	12	19	13	19	13	14	18	5	12	161	
PRECIPITATION 0.10	5	5	6	6	12	9	14	4	7	9	3	8	88		
PRECIPITATION 1.00	2	0	0	0	0	0	3	0	1	0	1	3	10		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	2.0	2.5	T	0.5	0.0	0.0	0.0	0.0	T	0.0	0.0	8.9	13.9	
	GREATEST 24-HOUR (IN.)	1.2	1.0	T	0.5	0.0	0.0	0.0	0.0	T	0.0	0.0	6.4	6.4	
	DATE OF OCCURRENCE	19	02	02+	07					09			18	DEC 18	
	MAXIMUM SNOW DEPTH (IN.)	0	1	0	0	0	0	0	0	0	0	0	6	6	
	DATE OF OCCURRENCE		22+										19	DEC 19	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	1	0	0	0	0	0	0	0	0	0	2	4		

NORMALS, MEANS, AND EXTREMES

BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

LATITUDE:
36 ° 28'N

LONGITUDE:
-82 ° 23'W

ELEVATION (FT):
GRND: 1500 BARO: 1539

TIME ZONE:
EASTERN (UTC -5)

WBAN: 13877

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	44.1	48.9	58.4	67.1	74.9	81.8	84.8	83.9	78.5	68.2	57.4	47.8	66.3
	MEAN DAILY MAXIMUM	62	45.3	49.5	58.3	68.0	76.1	82.9	85.4	85.0	79.7	69.4	57.8	48.2	67.1
	HIGHEST DAILY MAXIMUM	64	79	80	85	89	92	97	102	101	100	90	81	78	102
	YEAR OF OCCURRENCE		1950	1977	1954	1995	1969	1952	1952	1988	1954	1954	2003	1951	JUL 1952
	MEAN OF EXTREME MAXS.	62	66.2	69.0	76.9	83.8	86.5	90.9	92.3	92.0	89.4	82.2	75.0	67.4	81.0
	NORMAL DAILY MINIMUM	30	24.3	27.0	34.6	42.0	51.0	59.5	63.5	61.7	54.7	41.8	33.6	26.8	43.4
	MEAN DAILY MINIMUM	62	26.0	28.4	35.0	43.5	52.2	60.3	64.4	63.2	56.4	44.5	35.1	28.4	44.8
	LOWEST DAILY MINIMUM	64	-21	-15	-2	21	30	38	45	43	34	20	5	-9	-21
	YEAR OF OCCURRENCE		1985	1996	1980	2007	1997	1966	1947	1986	1983	1962	1950	1962	JAN 1985
	MEAN OF EXTREME MINS.	62	5.6	9.8	18.3	27.6	37.5	48.1	55.3	53.7	42.5	29.1	19.3	10.3	29.8
	NORMAL DRY BULB	30	34.2	38.0	46.5	54.6	63.0	70.7	74.2	72.8	66.6	55.0	45.5	37.3	54.9
	MEAN DRY BULB	62	35.7	39.0	46.7	55.7	64.2	71.7	74.9	74.1	68.0	57.0	46.5	38.3	56.0
	MEAN WET BULB	26	31.6	34.0	40.4	48.0	56.8	64.4	67.8	66.9	60.7	50.2	41.2	34.1	49.7
	MEAN DEW POINT	26	27.9	30.0	35.6	43.5	53.8	62.1	65.9	64.9	58.3	47.1	37.4	30.5	46.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.0	1.9	5.9	4.2	1.4	0.0	0.0	0.0	13.4
	MAXIMUM <= 32	30	4.7	2.9	0.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.4	10.5
MINIMUM <= 32	30	22.4	18.9	12.5	4.0	0.2	0.0	0.0	0.0	0.0	3.1	13.0	20.3	94.4	
MINIMUM <= 0	30	0.6	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	
H/C	NORMAL HEATING DEG. DAYS	30	939	745	561	306	110	11	3	2	52	303	570	843	4445
	NORMAL COOLING DEG. DAYS	30	0	0	1	10	61	198	304	260	116	6	0	0	956
RH	NORMAL (PERCENT)	30	73	70	65	64	72	75	77	78	77	73	71	74	72
	HOURLY 01 LST	30	78	76	73	73	84	88	90	91	90	86	80	79	82
	HOURLY 07 LST	30	82	81	81	82	89	90	92	94	94	91	85	83	87
	HOURLY 13 LST	30	63	59	53	50	55	58	61	60	58	53	56	62	57
	HOURLY 19 LST	30	67	62	56	52	61	64	67	69	70	66	65	68	64
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	3.2	2.4	1.7	1.8	4.1	4.4	5.4	7.0	5.8	6.0	3.0	3.3	48.1
	THUNDERSTORMS	62	0.3	0.8	1.9	3.6	6.7	8.1	9.2	7.1	2.9	0.7	0.5	0.3	42.1
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)						4.8	4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)							4.0							
	MEAN NO. DAYS WITH: CLEAR	1	2.0	2.0	3.0		10.0	10.0							
	PARTLY CLOUDY	1	1.0	2.0	2.0		5.0	7.0							
CLOUDY	1	1.0	6.0	10.0		6.0	5.0								
PR	MEAN STATION PRESSURE(IN)	26	28.55	28.46	28.43	28.39	28.42	28.43	28.46	28.47	28.48	28.50	28.50	28.50	28.47
	MEAN SEA-LEVEL PRES. (IN)	26	30.13	30.10	30.06	29.99	30.01	30.01	30.03	30.04	30.07	30.11	30.13	30.14	30.07
WINDS	MEAN SPEED (MPH)	26	5.7	5.8	6.3	5.9	4.8	4.1	3.8	3.3	3.5	3.8	4.5	5.0	4.7
	PREVAIL.DIR(TENS OF DEGS)	37	25	25	25	25	25	25	24	25	06	25	25	25	25
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	40	37	39	39	43	40	36	37	32	36	37	46	46
	DIR. (TENS OF DEGS)		24	25	26	25	23	22	01	25	23	27	27	24	24
	YEAR OF OCCURRENCE		2009	2009	1998	1996	2008	2009	1998	2002	2009	2001	2005	2009	DEC 2009
	MAXIMUM 3-SECOND SPEED (MPH)	14	51	52	49	54	62	55	52	54	44	48	47	58	62
	DIR. (TENS OF DEGS)		26	25	26	27	28	34	24	29	23	34	25	23	28
YEAR OF OCCURRENCE		1996	2009	2008	1996	2000	2009	1997	2000	2009	1999	2000	2009	MAY 2000	
PRECIPITATION	NORMAL (IN)	30	3.52	3.40	3.91	3.23	4.32	3.89	4.21	3.00	3.08	2.30	3.08	3.39	41.33
	MAXIMUM MONTHLY (IN)	64	9.18	7.75	9.56	7.03	9.71	7.37	9.73	11.34	7.09	5.65	6.74	6.75	11.34
	YEAR OF OCCURRENCE		1957	1994	1955	1998	1950	1998	1949	2003	1972	1959	2003	1961	AUG 2003
	MINIMUM MONTHLY (IN)	64	1.37	0.75	1.31	0.21	0.76	0.75	0.67	0.37	0.50	0.02	0.50	0.21	0.02
	YEAR OF OCCURRENCE		1981	1968	1985	1976	2007	1986	1995	2007	1985	2000	2001	1965	OCT 2000
	MAXIMUM IN 24 HOURS (IN)	64	2.46	2.48	3.35	2.66	3.26	3.10	2.90	3.50	3.61	3.65	3.18	2.95	3.65
	YEAR OF OCCURRENCE		2008	1994	1973	1977	1984	1954	1946	2003	1972	1964	2003	1969	OCT 1964
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	13.3	11.9	13.0	11.3	12.3	11.9	11.5	10.0	8.8	8.4	10.2	12.0	134.6
PRECIPITATION >= 1.00	30	0.5	0.6	0.6	0.3	0.9	0.7	0.9	0.8	0.7	0.5	0.5	0.5	7.5	
SNOWFALL	NORMAL (IN)	30	5.5	4.1	1.9	0.9	0.*	0.0	0.0	0.0	0.0	0.1	0.3	2.2	15.0
	MAXIMUM MONTHLY (IN)	65	22.1	20.4	27.9	14.8	T	T	0.0	0.0	T	1.3	18.1	12.9	27.9
	YEAR OF OCCURRENCE		1966	1979	1960	1987	1992	1995			2009	1993	1952	1963	MAR 1960
	MAXIMUM IN 24 HOURS (IN)	59	13.0	11.5	14.2	10.0	T	T	0.0	0.0	T	1.3	16.2	9.6	16.2
	YEAR OF OCCURRENCE		1996	1996	1993	1987	1992	1995			2009	1993	1952	1969	NOV 1952
	MAXIMUM SNOW DEPTH (IN)	53	13	10	13	11	0	0	0	0	0	1	12	20	20
	YEAR OF OCCURRENCE		1966	1969	1960	1987						1993	1952	1948	DEC 1948
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.9	1.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	4.6	

PRECIPITATION (inches) 2009 BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	3.91	1.39	5.68	3.56	2.69	1.10	3.82	2.54	3.01	2.09	2.10	1.38	33.27
1981	1.37	2.59	1.94	5.10	4.51	4.28	6.24	3.05	4.17	2.51	1.95	3.20	40.91
1982	4.07	5.07	3.35	2.30	2.55	5.52	9.14	4.70	5.53	2.54	4.12	2.89	51.78
1983	1.67	2.14	1.73	4.44	4.83	4.60	3.29	5.05	1.88	2.18	2.74	4.15	38.70
1984	1.79	4.50	2.73	2.85	7.42	3.86	4.63	1.23	1.43	1.14	2.61	1.76	35.95
1985	3.21	3.40	1.31	2.08	2.85	4.35	4.38	3.09	0.50	3.02	5.87	1.17	35.23
1986	1.55	4.11	1.56	0.51	4.16	0.75	5.50	3.40	3.93	1.69	2.67	3.66	33.49
1987	4.11	4.13	2.80	5.23	1.62	2.64	1.91	0.55	4.57	0.62	2.10	3.00	33.28
1988	2.74	3.20	1.54	2.69	2.48	0.89	3.20	2.78	3.20	1.79	3.44	2.73	30.68
1989	3.69	4.07	3.76	2.97	4.10	6.97	3.81	3.41	6.95	1.77	3.18	3.16	47.84
1990	3.23	5.06	4.00	2.44	6.57	2.90	3.78	3.51	1.47	5.23	1.32	4.85	44.36
1991	2.01	5.43	6.30	3.39	2.10	4.51	3.81	3.98	2.44	0.31	3.42	6.73	44.43
1992	2.42	3.52	2.62	1.53	5.46	3.44	5.11	2.41	1.49	3.42	2.25	5.05	38.72
1993	3.21	2.12	5.51	2.43	3.42	0.98	4.59	5.01	2.50	2.19	3.58	5.85	41.39
1994	4.52	7.75	7.46	4.26	3.90	4.63	4.95	4.63	1.30	2.68	2.37	1.38	49.83
1995	4.63	3.64	3.24	1.52	6.19	4.18	0.67	2.40	3.82	2.35	5.34	2.24	40.22
1996	6.51	2.51	4.10	3.54	6.76	3.36	5.74	3.64	3.79	.97	4.82	3.90	49.64
1997	3.91	4.25	5.92	3.78	4.80	4.45	4.25	1.53	3.02	1.70	1.71	2.17	41.49
1998	5.12	2.13	3.85	7.03	4.94	7.37	1.96	2.14	0.90	1.68	1.44	5.36	43.92
1999	4.40	2.91	2.64	2.47	2.37	4.30	5.79	2.01	1.09	2.17	3.29	1.38	34.82
2000	3.62	1.86	3.84	3.55	3.19	4.56	5.42	3.70	1.74	0.02	2.42	1.69	35.61
2001	2.56	4.58	3.69	1.82	4.05	4.41	8.73	4.96	2.20	0.84	0.50	3.42	41.76
2002	4.32	0.89	5.86	0.98	2.39	1.99	4.76	3.20	2.79	3.74	4.95	4.38	40.25
2003	2.47	6.32	2.83	6.66	5.32	6.40	7.52	11.34	5.29	1.55	6.74	3.20	65.64
2004	2.88	3.37	4.48	4.64	3.91	5.10	5.01	2.64	6.01	3.35	3.70	3.03	48.12
2005	2.91	2.77	2.85	5.44	2.26	4.93	5.80	3.21	0.76	1.45	2.46	2.71	37.55
2006	3.90	1.98	2.86	5.69	2.29	3.95	2.01	5.25	4.67	3.13	2.75	2.16	40.64
2007	1.60	1.02	2.27	2.64	0.76	2.96	3.97	0.37	0.74	1.58	1.41	3.07	22.39
2008	3.45	3.63	3.84	2.84	1.50	2.26	4.69	2.99	2.52	1.01	2.09	4.41	35.23
2009	5.67	2.24	2.21	2.72	4.58	3.57	8.51	1.52	4.98	4.02	3.00	5.64	48.66
POR= 62 YRS	3.51	3.49	3.91	3.42	3.77	3.69	4.61	3.41	2.96	2.30	3.03	3.48	41.58

WBAN : 13877

AVERAGE TEMPERATURE (°F) 2009 BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	37.9	30.6	43.2	55.4	64.2	70.6	76.4	76.9	70.9	54.1	45.3	36.3	55.2
1981	29.3	37.9	42.6	60.4	61.3	75.1	75.3	72.1	65.0	53.7	45.8	34.5	54.4
1982	31.2	40.2	49.8	53.1	68.2	71.4	75.1	72.3	65.7	57.6	48.3	43.3	56.4
1983	35.1	38.2	46.4	50.5	60.9	69.5	74.2	74.7	65.9	57.1	45.3	34.8	54.4
1984	32.7	40.3	44.5	53.0	59.4	72.4	71.3	72.9	64.5	63.6	43.0	45.5	55.3
1985	27.6	35.5	48.2	57.0	63.8	69.5	73.2	71.2	66.1	61.4	55.3	33.9	55.2
1986	32.0	40.4	46.2	57.2	64.8	74.1	77.2	73.0	69.7	58.7	51.4	38.8	57.0
1987	34.7	39.9	47.8	52.0	69.3	73.5	77.0	77.5	68.2	50.8	48.5	41.6	56.7
1988	31.5	37.3	47.8	54.1	62.3	70.5	76.7	77.1	68.1	50.2	47.6	37.6	55.1
1989	42.3	39.5	51.2	54.7	59.8	71.9	75.1	73.3	67.8	56.6	45.6	28.1	55.5
1990	41.6	45.4	51.2	55.3	63.7	72.0	75.2	74.4	68.7	58.0	49.1	44.3	58.2
1991	38.8	41.2	49.2	59.7	69.6	72.0	76.6	73.2	67.7	58.1	46.1	40.6	57.7
1992	38.6	42.7	44.8	55.5	61.2	69.2	74.9	71.1	68.4	54.0	47.0	38.3	55.5
1993	41.7	37.4	43.6	53.2	64.7	72.7	79.6	73.8	67.1	55.3	46.8	38.3	56.2
1994	31.3	41.1	46.3	59.0	60.8	74.8	75.3	72.8	65.8	57.3	50.7	43.6	56.6
1995	38.1	37.5	50.1	57.1	64.7	71.3	77.2	78.4	67.7	56.1	41.0	34.4	56.1
1996	33.9	36.4	42.0	51.7	64.8	71.5	72.1	72.6	65.0		41.3	39.9	
1997	35.8	43.1	50.6	50.7	58.3	68.6	74.6	70.7	65.9	55.4	41.5	36.6	54.3
1998	40.3	42.7	45.3	54.3	66.0	71.1	74.4	74.3	71.6	57.7	47.7	41.6	57.3
1999	39.9	40.3	42.7	58.2	63.3	72.2	76.7	74.3	66.5	55.5	49.4	39.1	56.5
2000	33.9	43.0	49.3	52.9	66.3	71.9	73.3	72.4	67.1	56.9	44.1	30.8	55.2
2001	33.2	43.4	43.0	58.0	65.2	70.8	73.2	74.5	64.5	53.6	50.2	42.8	56.0
2002	38.3	38.5	47.3	59.4	62.5	73.6	76.6	75.9	71.4	59.8	43.6	37.7	57.1
2003	30.6	37.2	50.3	56.6	64.2	69.0	73.7	74.9	65.9	55.7	50.6	36.1	55.4
2004	33.3	38.6	49.8	55.5	68.1	71.3	74.1	71.2	67.9	60.5	50.5	36.3	56.4
2005	39.5	41.0	44.6	55.0	60.8	71.9	75.8	76.7	70.3	58.5	48.2	35.0	56.4
2006	43.0	36.7	46.1	59.3	61.5	70.2	75.2	76.7	64.8	53.4	47.2	41.3	56.3
2007	38.3	34.2	52.5	53.5	66.0	72.9	73.2	79.0	71.3	62.5	45.6	42.6	57.6
2008	34.5	40.9	46.3	56.0	62.7	73.2	73.9	73.0	69.4	54.3	42.4	40.6	55.6
2009	34.3	38.7	48.2	55.4	64.8	72.7	71.3	73.5	68.5	55.6	48.2	36.7	55.7
POR= 62 YRS	35.7	39.0	46.7	55.7	64.2	71.7	74.9	74.1	68.0	57.0	46.5	38.3	56.0

HEATING DEGREE DAYS (base 65°F) 2009 BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	31	337	586	882	1099	752	686	161	137	0	4671
1981-82	0	0	83	346	570	942	1042	687	465	351	32	0	4518
1982-83	0	0	66	256	494	667	922	745	570	436	140	19	4315
1983-84	0	0	98	242	583	928	995	709	627	357	199	8	4746
1984-85	0	0	91	73	652	599	1154	819	518	243	88	19	4256
1985-86	0	2	76	124	283	960	1015	681	577	240	80	0	4038
1986-87	0	19	2	227	402	804	932	698	527	393	30	0	4034
1987-88	0	0	24	436	489	718	1031	798	527	322	113	45	4503
1988-89	0	0	22	455	512	844	698	709	428	325	198	1	4192
1989-90	0	6	55	262	575	1139	718	540	423	303	93	0	4114
1990-91	0	0	48	225	474	636	806	659	483	175	32	2	3540
1991-92	0	0	68	224	562	750	813	638	617	293	148	22	4135
1992-93	0	3	32	337	532	820	714	767	657	346	65	10	4283
1993-94	0	0	59	298	537	823	1039	665	571	196	156	0	4344
1994-95	0	0	37	232	425	653	828	764	454	256	85	10	3744
1995-96	0	0	31	281	712	944	956	820	705	402	85	4	4940
1996-97	0	0	74	706	769	900	605	442	423	222	222	30	4197
1997-98	0	5	28	300	699	871	758	618	606	314	72	26	4297
1998-99	0	0	15	237	511	718	773	686	685	212	70	3	3910
1999-00	1	0	49	293	463	798	956	631	480	356	36	11	4074
2000-01	0	0	75	253	619	1053	979	602	675	232	56	0	4544
2001-02	0	0	101	348	435	678	822	737	541	215	143	1	4021
2002-03	0	0	4	201	635	841	1059	772	449	249	51	20	4281
2003-04	0	0	52	288	429	890	976	761	463	292	46	0	4197
2004-05	0	6	19	137	435	881	785	666	624	293	147	3	3996
2005-06	0	0	6	225	500	922	671	789	578	182	154	9	4036
2006-07	0	0	64	358	526	726	819	857	387	345	58	0	4140
2007-08	0	0	16	143	572	686	937	695	573	276	104	1	4003
2008-09	0	0	10	331	670	746	945	728	514	300	71	0	4315
2009-	0	0	27	292	496	871							

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COOLING DEGREE DAYS (base 65°F) 2009 BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	6	61	179	359	377	215	5	0	0	1202
1981	0	0	0	27	30	309	325	226	87	1	0	0	1005
1982	0	0	0	0	136	199	322	232	93	36	0	0	1018
1983	0	0	2	5	21	163	294	307	131	3	0	0	926
1984	0	0	0	2	35	236	202	253	83	38	0	0	849
1985	0	0	5	11	53	159	262	201	114	22	0	0	827
1986	0	0	0	14	78	278	385	275	149	38	3	0	1220
1987	0	0	0	11	171	259	378	395	126	0	0	0	1340
1988	0	0	0	4	32	214	369	383	120	2	0	0	1124
1989	0	0	5	24	42	218	322	268	144	11	0	0	1034
1990	0	0	3	20	62	217	325	299	161	17	0	0	1104
1991	0	0	0	23	180	218	367	258	157	20	2	0	1225
1992	0	0	0	14	36	155	312	199	143	0	0	0	859
1993	0	0	0	1	62	250	460	281	131	6	0	0	1191
1994	0	0	0	21	31	298	327	247	70	0	0	0	994
1995	0	0	0	25	81	204	387	423	117	11	0	0	1248
1996	0	0	0	7	84	205	227	244	80		1	0	
1997	0	0	3	2	17	144	303	190	65	9	0	0	733
1998	0	0	3	0	111	215	297	295	219	16	0	0	1156
1999	0	0	0	11	25	225	370	294	102	4	0	0	1031
2000	0	0	0	0	80	226	263	237	144	6	1	0	957
2001	0	0	0	25	67	187	262	300	92	2	0	0	935
2002	0	0	0	51	69	266	364	346	204	50	1	0	1351
2003	0	0	0	3	34	145	274	314	84	7	4	0	865
2004	0	0	0	15	150	196	288	206	111	6	4	0	976
2005	0	0	0	0	21	217	344	374	173	30	1	0	1160
2006	0	0	0	15	51	175	325	370	66	3	0	0	1005
2007	0	0	7	6	98	245	260	440	208	73	0	0	1337
2008	0	0	0	11	39	254	280	255	150	5	0	0	994
2009	0	0	0	18	71	234	202	271	137	8	0	0	941

SNOWFALL (inches) 2009 BRISTOL/JHNSN CTY/KNGSPRT (KTRI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	T	T	7.3	1.1	1.1	0.0	0.0	0.0	9.5
1981-82	0.0	0.0	0.0	0.0	T	7.3	3.6	2.3	2.6	0.6	0.0	0.0	16.4
1982-83	0.0	0.0	0.0	0.0	0.0	6.3	3.4	5.5	1.1	5.6	0.0	0.0	21.9
1983-84	0.0	0.0	0.0	0.0	T	0.3	4.6	3.8	1.2	T	0.0	0.0	9.9
1984-85	0.0	0.0	0.0	0.0	0.0	0.3	9.7	6.0	T	T	0.0	0.0	16.0
1985-86	0.0	0.0	0.0	0.0	0.0	3.2	10.5	7.7	T	T	0.0	0.0	21.4
1986-87	0.0	0.0	0.0	0.0	T	0.2	12.2	4.0	0.3	14.8	0.0	0.0	31.5
1987-88	0.0	0.0	0.0	0.0	0.8	0.2	7.6	T	0.4	0.0	0.0	0.0	9.0
1988-89	0.0	0.0	0.0	T	T	2.3	3.7	11.0	T	T	T	0.0	17.0
1989-90	0.0	0.0	0.0	0.1	0.9	6.9	0.7	0.4	0.5	T	0.0	0.0	9.5
1990-91	0.0	0.0	0.0	0.0	0.0	T	T	1.4	T	0.0	0.0	0.0	1.4
1991-92	0.0	0.0	0.0	0.0	T	T	0.2	T	0.1	0.4	T	0.0	0.7
1992-93	0.0	0.0	0.0	0.0	T	3.5	T	2.3	14.2	T	0.0	T	20.0
1993-94	0.0	0.0	0.0	1.3	T	1.9	3.8	0.1	0.3	T	0.0	0.0	7.4
1994-95	0.0	0.0	T	0.0	0.0	T	2.7	1.7	5.0	0.0	0.0	T	9.4
1995-96	0.0	0.0	0.0	0.0	T	3.6	17.4		3.2	0.2			
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04							2.2	6.7	T	T	0.0	0.0	
2004-05	0.0	0.0	0.0	0.0	T	0.1	0.1	0.8	0.8	2.4	0.0	0.0	4.2
2005-06	0.0	0.0	0.0	0.0	0.2	T	0.5	7.7	0.8	0.0	0.0	0.0	9.2
2006-07	0.0	0.0	T	0.0	0.0	T	1.5	2.0	0.2	0.6	0.0	0.0	4.3
2007-08	0.0	0.0	0.0	0.0	T	0.1	3.8	1.0	0.4	0.0	0.0	0.0	5.3
2008-09	0.0	0.0	0.0	T	1.9	1.4	2.0	2.5	T	0.5	0.0	0.0	8.3
2009-	0.0	0.0	T	0.0	0.0	8.9							
POR= 61 YRS	0.0	0.0	T	T	0.9	2.3	4.9	4.0	1.9	0.4	T	T	14.4

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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 (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</p>	<p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</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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2009

BRISTOL/JOHNSON CITY/KINGSPORT

TENNESSEE (KTRI)

The Weather Service Office is located an almost equal distance of 15 miles in the middle of a geographical triangle between the cities of Bristol, Tennessee-Virginia, Kingsport and Johnson City, Tennessee, and is more commonly known as the Tri-City Area. This location is situated in the extreme upper East Tennessee Valley. The terrain immediately surrounding the station ranges from gently rolling on the east and south to very hilly on the west and north. Mountain ranges begin about 10 miles to the southeast and about 15 miles to the west and north, with many peaks and ridges rising to 4,000 feet, and some to 6,000 feet toward the southeast.

This section does not lie directly within any of the principal storm tracks that cross the country, but comes under the influence of storm centers that pass along the Gulf Coast and then up the Atlantic Coast toward the northeast. Being quite varied, the topography has considerable influence on the weather. Moist air from the east is forced up the slopes of the mountains causing much of the moisture to be precipitated before the air mass reaches the Bristol area. The same process occurs to a lesser extent when air masses move over the smaller mountain ranges to the west and north. The maximum monthly precipitation occurs in July, usually from afternoon and early evening thunderstorms. A second maximum of precipitation occurs in the late winter months, due mainly to moist air associated with storm centers to the south or northeast. Annual precipitation amounts recorded in mountainous sections to the east and southeast are almost double what they are in the immediate vicinity.

Lowest temperatures normally occur during the early morning hours, but rise rapidly during the morning hours. Periods of cold weather are generally associated with air flow from winter storm centers near the northeast coast. Periods of unusually high temperatures occur most frequently when Gulf air associated with the Bermuda high pressure system dominates the area.

Snowfall seldom occurs before November and rarely remains on the ground for more than a few days. However, mountains to the east and south of the station are frequently well blanketed with snow for much longer periods of time.

Agricultural activities within this area include such staple crops as tobacco, beans, and hay which are raised in such amounts as to be important commercially. The last freezing temperature in spring normally occurs in late April, and the first in autumn around mid-October. The growing season of 180 days, usually coupled with ample sunshine and rainfall, permits a second planting and harvesting of some staple crops.

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