

2002

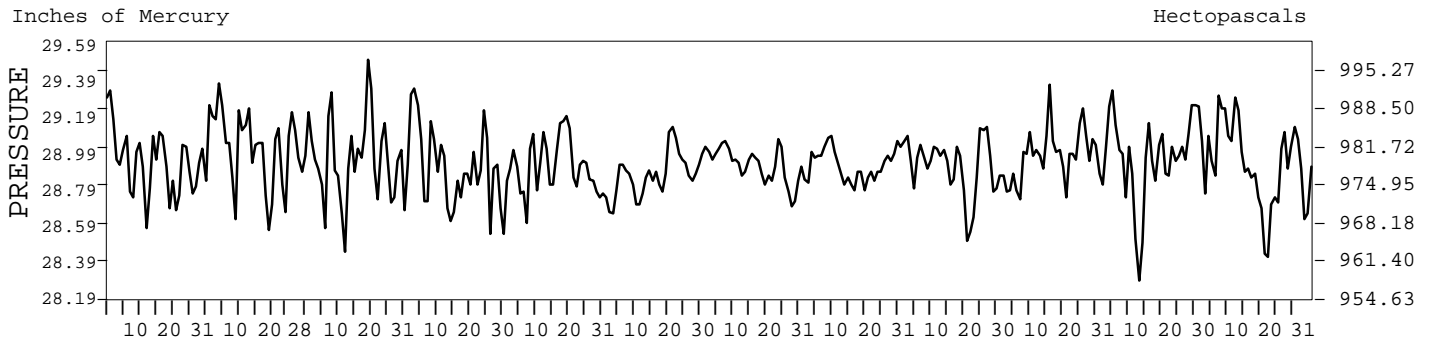
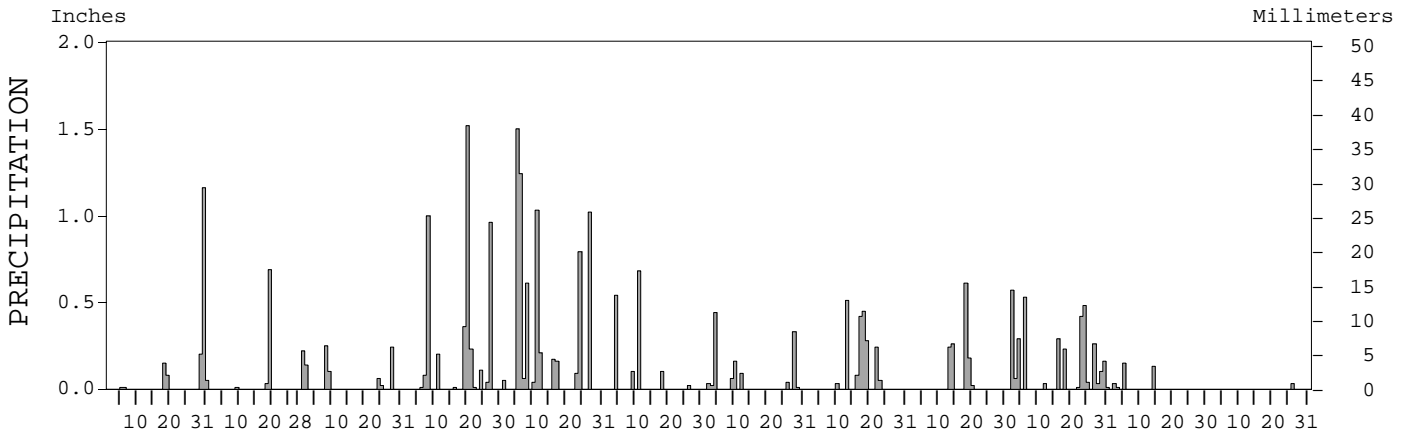
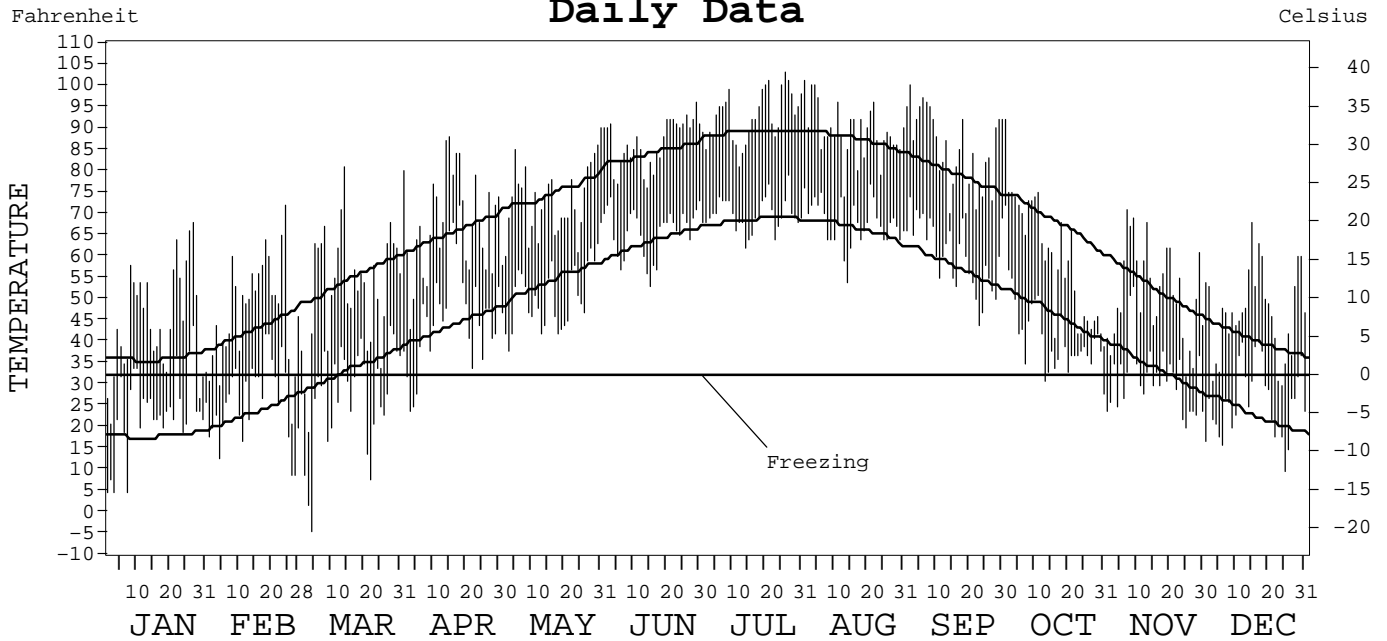
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2850

INTERNATIONAL AIRPORT, KANSAS CITY, MISSOURI (MCI)

Daily Data



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METEOROLOGICAL DATA FOR 2002

KANSAS CITY, MO (MCI)

LATITUDE: 39° 17' 57" N LONGITUDE: 94° 43' 04" W ELEVATION (FT): GRND: 1005 BARO: 1008 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03947

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.6	47.6	52.7	68.0	73.0	86.6	92.8	89.2	85.2	59.7	51.6	47.0	66.5	
	HIGHEST DAILY MAXIMUM	68	72	81	88	90	96	103	101	100	92	71	68	103	
	DATE OF OCCURRENCE	27	24	14	15	31	29	26	01	02	01	07	15	JUL 26	
	MEAN DAILY MINIMUM	23.6	26.4	27.4	45.7	50.7	65.6	69.7	67.9	60.5	41.6	31.4	26.1	44.7	
	LOWEST DAILY MINIMUM	5	9	-4	24	38	53	62	54	44	28	20	10	-4	
	DATE OF OCCURRENCE	07+	27+	04	03	03	15	14	14	23	31	25	25	MAR 04	
	AVERAGE DRY BULB	34.1	37.0	40.1	56.9	61.9	76.1	81.3	78.6	72.9	50.7	41.5	36.6	55.6	
	MEAN WET BULB	29.7	32.2	35.1	51.1	56.6	69.5	73.8	70.9	64.1	47.1	37.2	32.5	50.0	
	MEAN DEW POINT	22.4	24.6	27.2	45.1	51.9	66.1	70.5	67.4	59.2	43.8	31.0	25.4	44.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	14	20	14	12	1	0	0	0	62
	MAXIMUM ≤ 32°	5	4	2	0	0	0	0	0	0	0	1	3	15	
	MINIMUM ≤ 32°	26	21	19	4	0	0	0	0	0	2	16	25	113	
MINIMUM ≤ 0°	0	0	1	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	949	777	765	283	150	0	0	0	14	457	698	876	4969	
	COOLING DEGREE DAYS	0	0	0	47	60	341	512	426	255	18	0	0	1659	
RH	MEAN (PERCENT)	65	65	63	68	72	73	73	72	66	80	68	67	69	
	HOUR 00 LST	69	69	69	73	80	80	83	79	75	86	72	72	76	
	HOUR 06 LST	75	76	76	81	87	87	92	88	85	91	80	78	83	
	HOUR 12 LST	59	56	55	62	60	62	58	62	51	71	59	58	59	
	HOUR 18 LST	59	56	52	57	61	61	60	58	53	74	62	59	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	2	0	0	0	1	0	0	0	4	7	
	THUNDERSTORMS	0	2	4	6	13	5	6	8	2	3	0	0	49	
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.)	28.94	29.03	28.97	28.92	28.91	28.87	28.93	28.94	28.90	29.00	28.97	28.93	28.94	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.15	30.07	30.00	29.99	29.94	29.99	30.00	29.97	30.09	30.07	30.04	30.03	
WINDS	RESULTANT SPEED (MPH)	4.5	4.7	0.5	4.0	1.3	2.8	3.5	1.1	1.2	0.7	3.2	3.2	1.6	
	RES. DIR. (TENS OF DEGS.)	24	23	05	16	13	13	15	08	17	08	26	22	19	
	MEAN SPEED (MPH)	11.0	11.7	12.6	12.5	10.6	10.4	9.0	9.2	9.5	9.0	9.5	10.3	10.4	
	PREVAIL. DIR. (TENS OF DEGS.)	20	18	32	17	16	15	17	17	14	16	21	20	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	29	35	33	37	46	41	33	30	29	37	37	30	46	
	DIR. (TENS OF DEGS.)	18	17	28	31	24	12	01	33	18	28	31	20	24	
	DATE OF OCCURRENCE	22+	18+	09	24	08	11	10	23+	30	06	30	30+	MAY 08	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	37	40	43	46	61	49	147	40	37	51	44	43	147	
DIR. (TENS OF DEGS.)	17	19	15	01	25	12	36	32	23	21	32	20	36		
DATE OF OCCURRENCE	22+	24+	08	19	08	11	05	23	18	04	30	29	JUL 05		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.66	0.73	1.03	4.53	6.97	1.44	1.18	2.06	1.31	3.51	0.32	0.03	24.77	
	GREATEST 24-HOUR (IN.)	1.18	0.71	0.35	1.75	2.18	0.68	0.46	0.87	0.76	0.63	0.15	0.03	2.18	
	DATE OF OCCURRENCE	29-30	18-19	08-09	20-21	05-06	11	03-04	17-18	18-19	02-03	05	26	MAY 05-06	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	3	7	12	13	5	9	8	5	16	4	1	90	
PRECIPITATION ≥ 0.10	3	1	5	7	9	4	3	5	4	10	2	0	53		
PRECIPITATION ≥ 1.00	1	0	0	2	4	0	0	0	0	0	0	0	7		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	5.1	T	3.5	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.3	8.9	
	GREATEST 24-HOUR (IN.)	1.5	T	2.8	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.3	2.8	
	DATE OF OCCURRENCE	18	10+	02							31+	26	26	MAR 02	
	MAXIMUM SNOW DEPTH (IN.)	3	2	2	0	0	0	0	0	0	0	T	0	3	
	DATE OF OCCURRENCE	19	01	04+								26		JAN 19	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	3	0	1	0	0	0	0	0	0	0	0	0	4		

NORMALS, MEANS, AND EXTREMES

KANSAS CITY, MO (MCI)

LATITUDE: 39° 17' 57" N LONGITUDE: 94° 43' 04" W ELEVATION (FT): GRND: 1005 BARO: 1008 TIME ZONE: CENTRAL (UTC + 6) WBAN: 03947

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	36.0	42.6	54.4	65.2	74.6	83.9	88.8	87.1	79.0	67.6	52.0	40.0	64.3
	MEAN DAILY MAXIMUM	30	36.0	42.5	53.8	64.9	74.4	83.4	88.8	87.0	78.7	66.7	51.8	40.0	64.0
	HIGHEST DAILY MAXIMUM	30	69	77	86	93	95	105	107	109	106	92	82	74	109
	YEAR OF OCCURRENCE		1989	1995	1986	1987	1998	1980	1974	1984	2000	2002	1990	2001	AUG 1984
	MEAN OF EXTREME MAXS.	30	57.4	66.1	77.4	84.0	87.8	93.9	98.8	98.5	92.9	85.2	71.6	61.9	81.3
	NORMAL DAILY MINIMUM	30	17.8	23.3	33.2	43.5	53.9	63.2	68.2	66.1	57.2	45.9	33.4	22.5	44.0
	MEAN DAILY MINIMUM	30	18.2	23.5	33.0	43.9	54.0	63.2	68.6	66.4	57.1	45.6	33.6	22.5	44.1
	LOWEST DAILY MINIMUM	30	-17	-19	-10	12	30	42	51	43	31	17	1	-23	-23
	YEAR OF OCCURRENCE		1982	1982	1978	1975	1976	1990	1997	1986	1995	1993	1991	1989	DEC 1989
	MEAN OF EXTREME MINS.	30	-2.3	2.1	12.4	26.7	39.7	49.3	57.7	54.9	40.2	28.1	16.6	1.0	27.2
	NORMAL DRY BULB	30	25.7	31.2	42.7	54.5	64.1	73.2	78.5	76.1	67.5	56.6	43.1	30.4	53.6
	MEAN DRY BULB	30	27.1	33.0	43.4	54.3	64.1	73.3	78.9	76.6	68.0	56.1	42.7	31.3	54.1
	MEAN WET BULB	19	26.4	30.7	38.2	48.1	58.6	66.8	71.0	69.2	61.2	50.4	38.0	27.9	48.9
	MEAN DEW POINT	19	20.8	24.6	31.1	41.2	53.6	62.8	67.3	65.7	56.9	44.7	32.6	22.7	43.7
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.4	0.3	5.8	16.3	11.7	3.9	0.2	0.0	0.0	38.6	
MAXIMUM ≤ 32°	30	12.2	8.8	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.7	33.5	
MINIMUM ≤ 32°	30	28.1	21.9	14.3	3.8	0.1	0.0	0.0	0.0	0.0	2.2	13.5	26.4	110.3	
MINIMUM ≤ 0°	30	4.1	2.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	9.2	
H/C	NORMAL HEATING DEG. DAYS	30	1182	897	658	331	124	8	0	7	58	269	668	1047	5249
	NORMAL COOLING DEG. DAYS	30	0	0	0	12	101	264	418	367	151	12	0	0	1325
RH	NORMAL (PERCENT)	30	69	70	67	63	68	69	67	70	70	67	70	71	68
	HOUR 00 LST	30	72	74	72	68	75	78	75	78	78	73	74	74	74
	HOUR 06 LST	30	76	77	78	77	82	84	84	86	86	80	79	78	81
	HOUR 12 LST	30	63	64	59	55	58	58	57	59	59	56	62	65	60
	HOUR 18 LST	30	64	63	57	52	56	57	54	58	59	59	65	67	59
S	PERCENT POSSIBLE SUNSHINE	23	58	55	58	62	61	66	72	67	66	60	49	49	60
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	31	2.9	2.8	1.9	1.1	1.2	0.8	0.6	1.3	1.3	1.5	1.8	3.1	20.3
	THUNDERSTORMS	31	0.4	0.9	2.6	4.9	8.2	9.1	8.0	6.7	5.5	3.0	1.3	0.5	51.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			5.6			4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)	1			6.4										
	MEAN NO. DAYS WITH:														
	CLEAR	1	4.0	5.0	10.0		6.0	7.0							
PARTLY CLOUDY	1	1.0	1.0	5.0			9.0								
CLOUDY	1	3.0		9.0		9.0	5.0								
PR	MEAN STATION PRESSURE (IN)	30	29.00	28.99	28.90	28.90	28.88	28.89	28.90	28.90	28.99	29.00	29.00	29.01	28.95
	MEAN SEA-LEVEL PRES. (IN)	18	30.14	30.11	30.03	29.95	29.92	30.01	29.97	30.00	30.02	30.06	30.07	30.15	30.04
WINDS	MEAN SPEED (MPH)	30	11.2	11.1	12.2	12.3	10.3	9.9	9.2	8.8	9.6	10.5	11.1	10.9	10.6
	PREVAIL. DIR (TENS OF DEGS)	30	20	19	19	18	18	18	19	18	18	18	18	19	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	39	40	46	48	46	51	58	37	41	40	37	37	58
	DIR. (TENS OF DEGS)		32	20	23	20	24	01	02	36	14	21	31	20	02
	YEAR OF OCCURRENCE		2000	2000	2000	2001	2002	2000	2000	2001	1996	1996	2002	2001	JUL 2000
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	7	48	52	58	59	61	61	147	55	49	52	52	45	147
DIR. (TENS OF DEGS)		32	19	23	18	25	36	36	14	14	23	33	33	36	
YEAR OF OCCURRENCE		2000	2000	2000	2001	2002	2000	2002	2001	1996	1996	1997	1997	JUL 2002	
PRECIPITATION	NORMAL (IN)	30	1.15	1.31	2.44	3.38	5.39	4.44	4.42	3.54	4.64	3.33	2.30	1.64	37.98
	MAXIMUM MONTHLY (IN)	30	2.66	3.25	9.08	8.43	12.75	11.86	15.47	9.58	11.34	8.15	5.12	5.42	15.47
	YEAR OF OCCURRENCE		1982	2001	1973	1999	1995	2001	1992	1982	1977	1998	1992	1980	JUL 1992
	MINIMUM MONTHLY (IN)	30	0.02	0.20	0.33	0.66	1.05	1.44	0.25	0.50	1.13	0.21	0.03	0.00	0.00
	YEAR OF OCCURRENCE		1986	1991	1994	2000	1992	2002	1975	2000	1974	1988	1996	NOV	NOV
	MAXIMUM IN 24 HOURS (IN)	30	1.83	1.85	3.07	4.69	4.26	4.48	5.08	6.19	8.82	4.92	2.15	3.67	8.82
	YEAR OF OCCURRENCE		1982	1997	2001	1975	1974	2001	1986	1982	1977	1973	1998	1980	SEP 1977
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	7.1	7.2	10.3	10.3	11.3	10.3	7.3	8.9	8.1	7.8	7.7	7.6	103.9
PRECIPITATION ≥ 1.00	30	0.1	0.1	0.4	0.4	1.6	1.2	1.1	1.1	1.5	1.0	0.4	0.4	9.3	
SNOWFALL	NORMAL (IN)	30	5.8	5.0	2.6	0.8	0.0	0.0	0.0	0.0	0.3	1.3	4.3	20.1	
	MAXIMUM MONTHLY (IN)	30	14.2	15.7	11.4	7.2	T	T	T	T	T	6.5	7.1	13.2	15.7
	YEAR OF OCCURRENCE		1977	1993	1978	1983	1990	1994	1992	2001	1992	1996	1975	1983	FEB 1993
	MAXIMUM IN 24 HOURS (IN)	30	9.5	10.8	9.2	4.0	T	T	T	T	T	6.5	6.1	10.8	10.8
	YEAR OF OCCURRENCE		1993	1993	1990	1983	1990	1994	1992	2001	1992	1996	1975	1987	FEB 1993
	MAXIMUM SNOW DEPTH (IN)	29	12	11	9	2	0	0	0	0	0	0	7	11	12
	YEAR OF OCCURRENCE		1979	1979	1990	1994							1975	1987	JAN 1979
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	2.0	1.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	6.8	

PRECIPITATION (inches) 2002 INTERNATIONAL AIRPORT, MO (MCI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	2.05	1.35	9.08	2.91	5.65	2.84	8.71	1.60	10.32	5.80	2.36	2.59	55.26
1974	1.05	1.12	1.18	2.94	10.07	2.16	1.13	4.98	1.13	7.22	1.62	1.52	36.12
1975	2.14	1.59	1.49	6.61	3.45	2.46	0.25	4.85	6.10	0.35	2.75	2.03	34.07
1976	0.53	0.66	2.53	3.30	5.49	5.08	0.77	0.76	1.41	2.84	0.21	0.10	23.68
1977	1.15	0.57	2.59	2.35	5.43	6.18	2.74	7.99	11.34	7.67	1.36	0.37	49.74
1978	0.39	1.32	1.77	5.36	4.98	2.64	5.49	2.66	4.04	0.33	3.93	1.05	33.96
1979	2.35	0.78	2.96	2.35	3.00	5.37	4.68	3.66	1.16	3.56	1.83	0.05	31.75
1980	1.60	1.44	3.64	1.02	3.06	2.52	1.99	4.89	1.63	4.13	0.45	5.42	31.79
1981	0.49	0.31	1.43	1.94	9.46	7.44	8.43	2.43	2.71	4.14	2.84	0.45	42.07
1982	2.66	1.13	2.94	1.55	9.81	6.04	2.73	9.58	1.58	3.04	2.21	3.94	47.21
1983	0.58	0.57	2.93	5.52	6.03	5.03	0.26	0.86	1.89	3.85	3.94	1.42	32.88
1984	0.14	1.96	4.52	6.82	2.26	4.14	3.91	0.75	3.42	6.04	1.24	3.57	38.77
1985	0.94	2.69	2.05	1.75	7.00	3.56	5.82	6.98	9.23	7.51	3.95	1.24	52.72
1986	0.02	1.25	1.34	2.12	4.76	2.48	8.36	3.16	10.40	3.17	1.18	1.20	39.44
1987	0.77	2.26	2.85	2.24	4.74	4.58	3.00	4.64	3.66	1.32	1.88	2.05	33.99
1988	1.40	0.72	1.43	2.15	2.14	1.80	1.21	1.87	8.48	0.21	1.96	0.85	24.22
1989	0.98	0.59	2.13	1.50	4.56	3.44	4.76	7.38	8.87	2.88	T	0.55	37.64
1990	1.20	2.11	3.90	2.47	7.36	6.27	4.40	5.04	1.28	2.46	3.01	1.11	40.61
1991	1.37	0.20	2.36	4.99	3.69	3.06	1.72	1.35	2.12	3.71	2.05	2.08	28.70
1992	1.21	2.01	3.79	4.92	1.05	3.84	15.47	2.37	5.69	1.38	5.12	3.78	50.63
1993	1.96	1.28	2.21	5.59	7.30	5.67	10.90	3.98	7.63	1.75	2.07	1.12	51.46
1994	0.63	1.47	0.33	6.98	1.29	2.45	2.79	3.54	2.65	1.27	3.18	1.76	28.34
1995	1.42	1.35	1.12	2.12	12.75	3.36	4.64	4.00	1.85	0.50	1.18	0.40	34.69
1996	1.12	0.35	1.28	1.80	10.29	7.51	4.83	2.97	3.44	3.67	3.15	0.03	40.44
1997	0.69	2.94	1.16	4.13	4.63	2.90	3.53	2.49	3.34	2.98	1.95	2.33	33.07
1998	0.97	1.10	3.44	2.15	1.75	9.22	4.97	3.61	8.69	8.15	4.29	1.19	49.53
1999	2.30	1.71	1.49	8.43	5.62	8.67	0.51	1.56	5.32	0.67	1.63	2.18	40.09
2000	0.46	2.21	2.93	0.66	4.55	7.55	6.02	0.50	3.13	3.55	2.59	0.81	34.96
2001	2.08	3.25	3.88	4.03	4.81	11.86	6.26	5.48	7.98	2.56	0.56	0.75	53.50
2002	1.66	0.73	1.03	4.53	6.97	1.44	1.18	2.06	1.31	3.51	0.32	0.03	24.77
POR= 112 YRS	1.32	1.45	2.56	3.43	4.87	4.87	4.02	3.84	4.34	2.96	1.92	1.40	36.98

WBAN : 03947

AVERAGE TEMPERATURE (°F) 2002 INTERNATIONAL AIRPORT, MO (MCI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	27.3	33.8	47.7	51.8	61.5	74.5	76.6	77.1	66.7	60.7	45.5	30.1	54.4
1974	23.8	35.3	46.9	56.2	65.6	70.5	82.1	73.0	61.6	57.7	42.8	32.2	54.0
1975	29.9	27.8	36.5	52.8	67.1	74.2	80.9	79.8	63.5	58.9	45.9	34.1	54.3
1976	27.5	42.7	45.0	56.3	60.0	71.3	79.0	77.7	69.0	50.8	35.9	29.0	53.7
1977	15.6	35.1	48.0	59.7	69.0	74.5	79.7	74.4	69.0	55.7	42.3	29.5	54.4
1978	16.8	19.5	37.6	55.5	62.1	74.6	79.3	76.5	73.6	56.4	44.4	31.0	52.3
1979	12.5	20.9	42.2	51.6	63.5	72.2	75.9	75.7	68.6	57.7	40.7	35.2	51.4
1980	28.7	25.2	38.7	54.6	63.9	75.3	85.2	80.3	69.6	54.1	44.5	32.1	54.4
1981	30.3	33.4	45.2	61.1	60.5	74.1	78.3	72.9	68.4	55.3	45.6	29.0	54.5
1982	18.6	27.8	42.5	51.1	65.5	68.8	79.4	75.0	67.5	55.6	41.9	35.5	52.4
1983	30.1	35.9	43.1	46.3	59.6	70.8	81.5	83.5	71.2	57.2	44.3	13.2	53.1
1984	25.0	38.9	36.0	50.3	60.4	74.3	76.1	79.0	66.1	56.8	43.9	35.5	53.5
1985	18.7	25.3	47.4	57.9	66.0	68.8	77.0	72.1	66.7	56.5	36.8	22.9	51.3
1986	34.5	30.5	48.5	57.1	65.2	76.5	79.7	72.0	71.8	56.9	37.9	34.5	55.4
1987	29.7	39.4	47.1	56.8	70.6	76.0	79.9	76.4	67.8	52.0	46.7	35.1	56.5
1988	26.7	27.9	43.2	54.5	69.1	78.1	79.6	81.3	70.5	52.2	44.8	35.2	55.3
1989	37.7	22.8	43.8	56.9	63.2	71.1	77.8	75.5	63.2	57.9	42.3	21.1	52.8
1990	37.9	36.2	45.7	52.7	60.4	75.5	77.3	77.1	72.1	57.1	50.1	29.3	56.0
1991	22.9	39.4	47.2	56.7	67.6	76.1	80.6	77.7	68.8	57.6	36.7	36.1	55.6
1992	35.9	39.8	46.9	53.1	62.6	69.7	74.4	70.7	66.1	56.6	39.0	32.9	54.0
1993	25.9	28.6	39.8	50.4	63.5	72.9	77.6	77.8	62.8	53.6	39.4	34.5	52.2
1994	25.2	30.0	46.0	53.8	64.6	75.8	76.0	75.3	67.7	57.5	46.3	36.5	54.6
1995	28.2	35.9	45.0	52.5	59.4	72.7	78.2	78.9	65.2	57.1	40.1	31.1	53.7
1996	23.1	34.2	37.7	52.8	64.5	73.8	75.2	74.9	64.8	56.3	37.0	29.7	52.0
1997	24.4	33.8	45.3	48.8	59.9	73.1	77.7	74.5	69.2	57.9	40.7	33.5	53.2
1998	33.8	41.3	39.1	54.3	71.1	73.5	77.8	77.0	72.4	58.6	48.0	34.8	56.8
1999	27.8	41.2	42.6	54.6	63.4	71.5	81.0	76.3	65.7	57.0	51.9	35.8	55.7
2000	31.8	40.8	47.1	55.0	67.3	71.2	76.8	81.8	71.0	59.9	36.6	19.1	54.9
2001	29.2	30.0	40.0	60.3	66.1	72.1	80.7	77.4	65.7	56.0	51.2	37.3	55.5
2002	34.1	37.0	40.1	56.9	61.9	76.1	81.3	78.6	72.9	50.7	41.5	36.6	55.6
POR= 113 YRS	29.1	33.1	43.3	55.3	65.1	74.4	79.3	77.7	69.6	58.4	44.2	33.0	55.2

HEATING DEGREE DAYS (base 65°F) 2002 INTERNATIONAL AIRPORT, MO (MCI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	53	173	578	1077	1272	823	559	270	84	6	4895
1974-75	0	6	141	227	660	1009	1084	1036	878	381	42	5	5469
1975-76	0	0	142	226	567	954	1155	640	616	277	178	6	4761
1976-77	0	0	45	469	865	1108	1527	832	521	192	22	0	5581
1977-78	0	0	21	293	673	1094	1487	1266	848	291	172	6	6151
1978-79	0	0	28	272	618	1050	1624	1230	698	400	115	5	6040
1979-80	5	5	35	247	720	918	1118	1148	809	327	98	3	5433
1980-81	0	0	63	347	609	1011	1069	880	607	169	179	2	4936
1981-82	0	2	40	309	573	1112	1432	1037	690	416	51	32	5694
1982-83	0	2	78	307	688	911	1074	810	675	557	180	29	5311
1983-84	0	0	57	271	617	1602	1234	750	891	443	175	1	6041
1984-85	0	0	143	269	624	907	1431	1102	538	256	41	19	5330
1985-86	0	3	131	260	841	1297	940	960	528	267	60	0	5287
1986-87	0	12	23	251	805	938	1088	712	549	298	15	0	4691
1987-88	0	3	30	398	552	922	1180	1069	668	311	19	0	5152
1988-89	2	1	18	394	599	915	836	1176	658	319	135	7	5060
1989-90	0	1	138	267	675	1360	836	800	601	398	167	10	5253
1990-91	1	0	44	278	452	1104	1296	709	553	258	62	0	4757
1991-92	0	0	96	277	841	888	898	724	554	367	137	6	4788
1992-93	0	7	80	271	773	987	1203	1011	775	431	88	26	5652
1993-94	0	2	118	365	760	938	1227	974	581	353	91	1	5410
1994-95	0	4	69	252	552	878	1135	807	613	370	196	1	4877
1995-96	0	0	111	255	743	1047	1295	891	840	381	110	10	5683
1996-97	0	0	95	291	835	1089	1252	865	603	476	184	1	5691
1997-98	3	0	25	290	720	971	960	658	806	323	18	27	4801
1998-99	0	0	9	213	505	930	1145	656	690	313	84	12	4557
1999-00	0	0	94	261	392	898	1024	694	554	303	58	9	4287
2000-01	0	0	52	195	845	1416	1102	972	768	190	67	16	5623
2001-02	0	0	71	280	407	854	949	777	765	283	150	0	4536
2002-	0	0	14	457	698	876							

WBAN : 03947

COOLING DEGREE DAYS (base 65°F) 2002 INTERNATIONAL AIRPORT, MO (MCI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	4	30	291	368	382	110	46	0	0	1231
1974	0	0	4	13	109	176	538	264	47	8	0	0	1159
1975	0	0	0	22	117	284	498	464	105	43	1	0	1534
1976	0	0	0	22	29	199	444	399	169	34	0	0	1296
1977	0	0	0	39	154	291	463	298	147	11	0	0	1403
1978	0	0	5	14	86	300	452	364	295	11	8	0	1535
1979	0	0	1	3	77	229	348	340	147	29	0	0	1174
1980	0	0	0	21	69	316	632	483	210	15	0	0	1746
1981	0	0	0	58	44	279	418	253	149	14	0	0	1215
1982	0	0	0	8	75	154	452	320	158	26	0	0	1193
1983	0	0	3	5	19	210	517	582	251	31	1	0	1619
1984	0	0	0	9	41	287	353	445	184	23	0	0	1342
1985	0	0	0	49	77	137	379	230	191	5	0	0	1068
1986	0	0	24	35	73	352	466	237	232	7	0	0	1426
1987	0	0	0	58	196	336	474	364	118	1	9	0	1556
1988	0	0	2	5	151	400	459	514	188	5	0	0	1724
1989	0	0	9	85	88	196	402	334	87	56	0	0	1257
1990	0	0	8	33	33	331	394	384	263	40	11	0	1497
1991	0	0	9	16	154	339	490	399	219	54	0	0	1680
1992	0	0	1	20	71	154	298	191	121	19	0	0	875
1993	0	0	0	0	49	271	398	406	55	19	0	0	1198
1994	0	0	0	23	86	331	345	333	154	28	0	0	1300
1995	0	0	0	1	27	239	417	438	123	18	0	0	1263
1996	0	0	0	19	105	282	325	313	94	29	0	0	1167
1997	0	0	0	0	33	248	403	300	159	75	0	0	1218
1998	0	0	10	10	213	291	407	378	237	20	0	0	1566
1999	0	0	0	7	42	215	501	358	123	24	4	0	1274
2000	0	0	4	10	134	202	369	528	239	41	0	0	1527
2001	0	0	0	58	109	239	495	392	100	8	1	0	1402
2002	0	0	0	47	60	341	512	426	255	18	0	0	1659

SNOWFALL (inches) 2002 INTERNATIONAL AIRPORT, MO (MCI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	T	8.0	4.8	0.3	0.5	0.3	0.0	0.0	13.9
1974-75	0.0	0.0	0.0	0.0	1.4	1.2	5.4	4.6	5.9	2.3	0.0	0.0	20.8
1975-76	0.0	0.0	0.0	0.0	7.1	2.8	5.2	5.2	1.5	0.0	0.0	0.0	21.8
1976-77	0.0	0.0	0.0	T	0.8	0.2	14.2	0.3	T	0.6	0.0	0.0	16.1
1977-78	0.0	0.0	0.0	0.0	T	1.2	3.9	12.7	11.4	0.0	0.0	0.0	29.2
1978-79	0.0	0.0	0.0	0.0	0.2	11.7	13.3	1.5	4.7	2.0	0.0	0.0	33.4
1979-80	0.0	0.0	0.0	0.0	T	T	5.4	12.7	5.4	0.0	0.0	0.0	23.5
1980-81	0.0	0.0	0.0	T	T	3.2	4.0	2.9	0.1	0.0	0.0	0.0	10.2
1981-82	0.0	0.0	0.0	0.0	0.1	5.3	6.0	12.7	4.0	1.3	0.0	0.0	29.4
1982-83	0.0	0.0	0.0	0.0	0.5	0.7	6.3	7.4	1.3	7.2	0.0	0.0	23.4
1983-84	0.0	0.0	0.0	0.0	0.7	13.2	1.3	0.5	8.7	0.0	0.0	0.0	24.4
1984-85	0.0	0.0	0.0	0.0	0.4	7.0	11.8	6.9	0.3	0.0	0.0	0.0	26.4
1985-86	0.0	0.0	0.0	0.0	3.5	5.4	T	4.5	T	T	0.0	0.0	13.4
1986-87	0.0	0.0	0.0	T	0.6	1.2	10.5	5.0	T	0.0	0.0	0.0	17.3
1987-88	0.0	0.0	0.0	T	2.0	11.9	0.9	9.3	2.2	0.0	0.0	0.0	26.3
1988-89	0.0	0.0	0.0	0.0	0.1	0.1	0.2	6.5	T	0.0	T	T	6.9
1989-90	0.0	0.0	0.0	0.0	T	6.8	1.0	2.1	9.6	0.0	T	0.0	19.5
1990-91	0.0	0.0	0.0	0.0	1.7	1.6	12.1	T	1.2	T	0.0	0.0	16.6
1991-92	0.0	0.0	0.0	0.0	4.6	0.2	T	2.0	0.5	2.8	0.0	0.0	10.1
1992-93	T	0.0	T	T	4.1	0.8	12.0	15.7	1.1	0.6	0.0	T	34.3
1993-94	0.0	0.0	0.0	T	0.5	2.7	1.4	10.3	0.5	2.6	0.0	T	18.0
1994-95	0.0	0.0	0.0	0.0	0.0	2.5	1.3	0.7	2.4	T	0.0	0.0	6.9
1995-96	0.0	0.0	0.0	0.0	0.7	5.3	11.4	T	0.7	1.0	0.0		
1996-97				6.5	4.8	0.5	9.8	6.3	0.0	1.3	T	0.0	
1997-98	0.0	0.0	0.0	1.0	0.5	10.9	0.6	1.0	5.6	0.0	T	T	19.6
1998-99	0.0	0.0	0.0	0.0	0.0	1.4	4.3	4.7	2.5	T	0.0	0.0	12.9
1999-00	0.0	0.0	0.0	0.0	0.0	3.9	4.9	2.1	2.0	0.0	T	0.0	12.9
2000-01	0.0	0.0	0.0	0.0	T	11.8	2.0	7.7	1.3	0.0	T	T	22.8
2001-02	0.0	T	T	T	0.0	T	5.1	T	3.5	0.0	0.0	0.0	8.6
2002-	0.0	0.0	0.0	T	T	0.3							
POR= 67 YRS	T	0.0	T	T	1.1	4.4	5.5	4.3	3.3	0.9	T	T	19.5

WBAN : 03947

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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002
INTERNATIONAL AIRPORT,
KANSAS CITY, MISSOURI (MCI)

The National Weather Service Office at Kansas City is very near the geographical center of the United States. The surrounding terrain is gently rolling. It has a modified continental climate. There are no natural topographic obstructions to prevent the free sweep of air from all directions. The influx of moist air from the Gulf of Mexico, or dry air from the semi-arid regions of the southwest, determine whether wet or dry conditions will prevail. There is often conflict between the warm moist gulf air and the cold polar continental air from the north in this area.

Early spring brings a period of frequent and rapid fluctuations in weather, with the fluctuations generally less frequent as spring progresses. The summer season is characterized by warm days and mild nights, with moderate humidities. July is the warmest month. The fall season is normally mild and usually includes a period near the middle of the season characterized by mild, sunny days, and cool nights. Winters are not severely cold. January is the coldest month. Falls of snow to a depth of 10 inches or more are comparatively rare. The distribution of measurable snow normally extends from November to April.

Nearly 60 percent of the annual precipitation occurs during the six months from April through September. More than 75 percent of the annual moisture normally falls during the growing season. The frequency and distribution of precipitation over a normal day is also important. The maximum frequency of precipitation, from April through October, occurs during the six hours following midnight and the minimum frequency occurs during the six hours following noon.

STATION LOCATION

INTERNATIONAL AIRPORT, KANSAS CITY, MISSOURI

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND										
							GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING	8 INCH	HYGROMETER		
*NOTES:																	
<u>AIRPORT</u>																	
Post Office Building Municipal Airport	1/1/34	11/2/39	NA	39°07'	94°35'	741	45	33	33	Unk	38	NA	38	NA	NA	Exposure good.	
Administration Building Municipal Airport	11/2/39	1/20/66	100 ft. S	39°07'	94°35'	741g742	76c90e22	39	39	Unkd42	4b30	5a32	3a31	f4	NA	a. Moved to roof 12/5/49. b. Moved to roof 12/22/49. c. Raised 4/28/55. d. Effective 4/1/58. e. Lowered 12/9/59. f. Commissioned 2000' NW of thermometer site 11/1/63. g. Effective 11/1/63.	
FAA Building Municipal Airport	1/20/66	10/2/72	3000 ft. NW	39°07'	94°36'	742	h22	NA	4	20	4	4	4	h4	NA	h. Not moved 1/20/66.	
FAA Building Municipal Airport + + Downtown Airport effective 4/23/79	10/2/72	Present	Not Moved	39°07'	94°36'	742	22	NA	NA	NA	4	NA	NA	4	NA	Observations by FAA.	
Trailer, SW corner International Airport	10/2/72	4/25/79	13.5 mi. NW	39°17'	94°43'	1014	20	NA	NA	iUnk	NA	4	4	4	NA	NWS moved from Municipal AP. i. Roof site. Height unknown.	
1236 Mexico City Avenue International Airport	4/15/79	07/01/95	2 mi. N	39°19'	94°43'	973	32	4	4	7	4	5	4	4j4	NA	j. Type change 10/5/84.	
International Airport	07/01/95	Present	NA	39°18'	94°43'	k1005									S	ASOS Commissioned 07/01/95 k. Ground elevation	

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* NOTES: For earlier station history see previous edition.