

2002

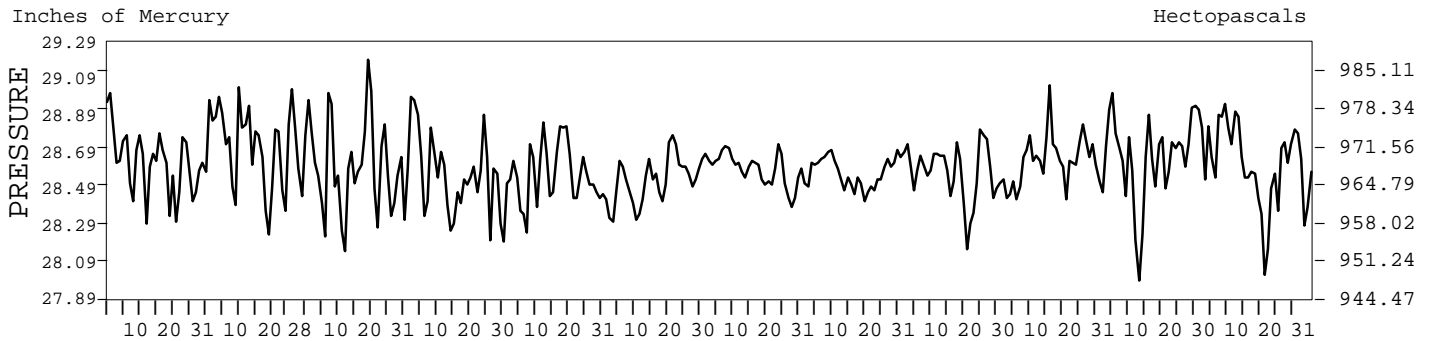
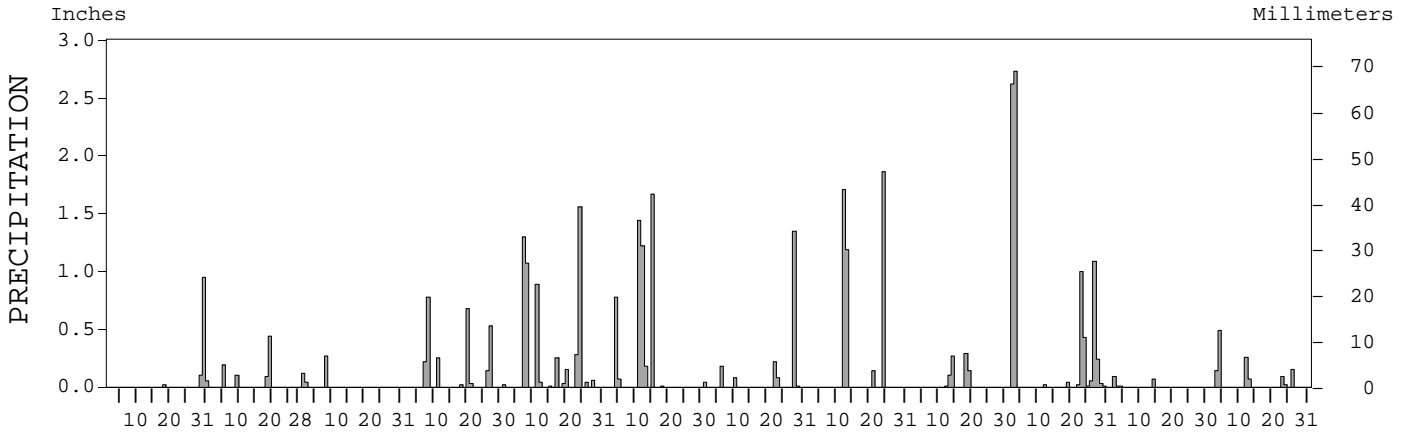
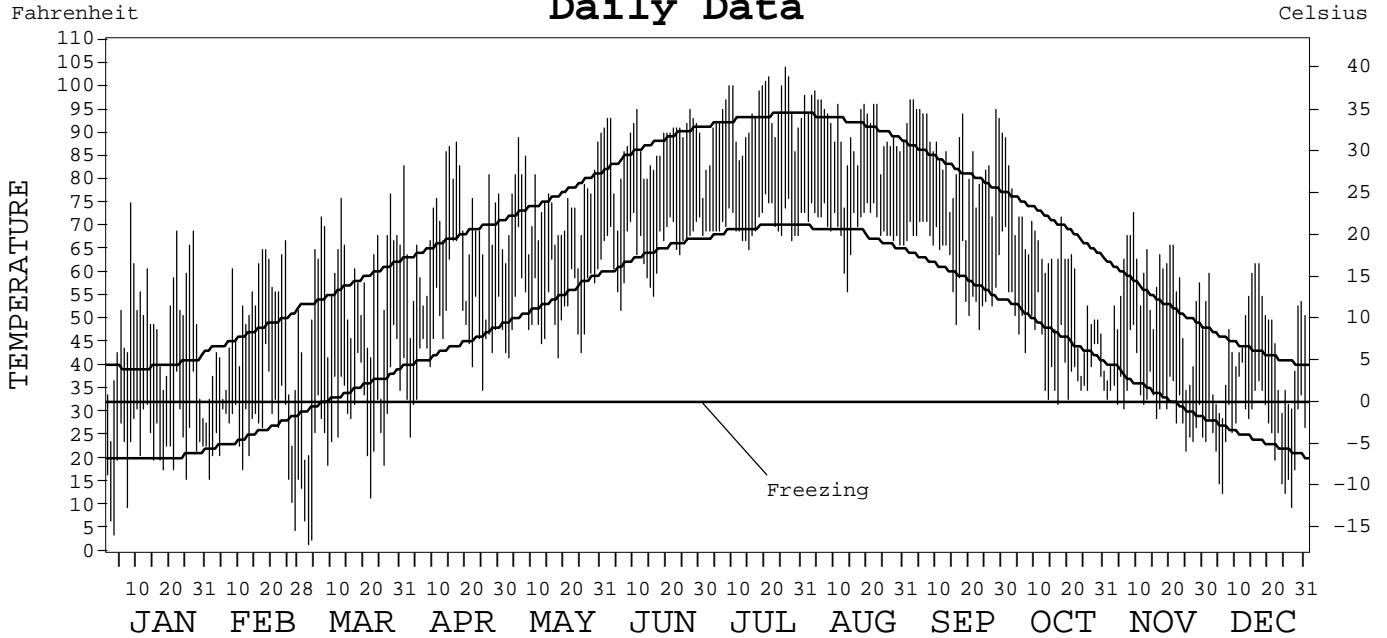
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2214

## WICHITA, KANSAS (ICT)

### Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2002

## WICHITA, KS (ICT)

LATITUDE: 37° 38' 50" N      LONGITUDE: 97° 25' 46" W      ELEVATION (FT): GRND: 1338      BARO: 1341      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 03928

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	48.7	49.1	56.2	69.1	74.5	87.6	92.8	90.7	85.7	61.1	55.1	45.0	68.0	
	HIGHEST DAILY MAXIMUM	75	67	76	88	90	95	104	99	97	89	73	62	104	
	DATE OF OCCURRENCE	08	24	13	17	31	27+	26	04	03+	01	09	17+	JUL 26	
	MEAN DAILY MINIMUM	23.3	26.1	27.8	47.2	52.9	65.4	70.3	69.8	61.7	43.5	33.2	26.2	45.6	
	LOWEST DAILY MINIMUM	4	5	2	25	42	52	65	56	48	32	22	10	2	
	DATE OF OCCURRENCE	03	27	03	03	18+	06	15	14	23	17	25	27	MAR 03	
	AVERAGE DRY BULB	36.0	37.6	42.0	58.2	63.7	76.5	81.6	80.3	73.7	52.3	44.2	35.6	56.8	
	MEAN WET BULB	29.9	32.4	35.8	52.5	58.1	68.3	71.4	71.0	63.5	48.1	39.1	32.6	50.2	
	MEAN DEW POINT	19.7	24.4	26.3	46.5	53.9	64.0	66.6	66.5	57.6	43.8	33.0	28.2	44.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	17	22	16	11	0	0	0	0	67
	MAXIMUM ≤ 32°	3	1	2	0	0	0	0	0	0	0	0	6	12	
	MINIMUM ≤ 32°	29	24	19	2	0	0	0	0	0	1	14	25	114	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	888	759	704	245	112	2	0	0	8	404	617	905	4644	
	COOLING DEGREE DAYS	0	0	0	50	80	354	522	483	278	22	0	0	1789	
RH	MEAN (PERCENT)	57	63	57	69	72	68	64	66	62	75	68	78	67	
	HOUR 00 LST	62	70	65	78	80	79	73	73	71	81	74	83	74	
	HOUR 06 LST	69	74	74	84	86	87	85	84	81	86	82	86	82	
	HOUR 12 LST	47	50	48	60	60	53	50	55	46	66	55	68	55	
	HOUR 18 LST	47	55	44	56	63	55	47	50	48	68	59	75	56	
S	PERCENT POSSIBLE SUNSHINE	69	59	70	50	50	81	72	83	79	45	71	51	65	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	2	2	1	2	0	0	0	0	1	1	7	17	
	THUNDERSTORMS	0	2	1	6	9	6	7	4	3	3	0	0	41	
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.)	28.63	28.73	28.62	28.56	28.56	28.53	28.59	28.59	28.56	28.66	28.66	28.61	28.61	
	MEAN SEA-LEVEL PRESS. (IN.)	30.08	30.18	30.06	29.98	29.96	29.91	29.97	29.96	29.95	30.08	30.10	30.06	30.02	
WINDS	RESULTANT SPEED (MPH)	1.5	1.9	0.8	5.3	4.8	5.3	2.9	5.1	2.2	2.0	1.9	0.8	2.0	
	RES. DIR. (TENS OF DEGS.)	28	26	10	16	14	15	15	14	13	08	30	22	15	
	MEAN SPEED (MPH)	11.5	12.1	13.6	13.6	12.8	12.9	10.9	10.2	9.9	9.6	9.3	11.4	11.4	
	PREVAIL. DIR. (TENS OF DEGS.)	18	18	18	17	17	16	18	17	16	36	18	18	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	38	39	47	46	45	38	35	49	35	33	31	30	49	
	DIR. (TENS OF DEGS.)	19	33	32	20	33	13	01	30	28	28	34	33	30	
	DATE OF OCCURRENCE	22	09	08	18	07	15+	28	12	18	02	18	21	AUG 12	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	52	61	58	52	47	41	56	39	45	36	36	61	
DIR. (TENS OF DEGS.)	19	31	32	21	33	14	01	30	29	27	36	33	32		
DATE OF OCCURRENCE	22	09	08	18	07	15	28+	12	18	02	18	21	MAR 08		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.12	0.82	0.43	2.65	5.70	5.37	1.96	4.90	0.81	8.29	0.18	1.22	33.45	
	GREATEST 24-HOUR (IN.)	0.95	0.53	0.27	0.78	2.30	2.66	1.36	1.93	0.43	3.85	0.10	0.63	3.85	
	DATE OF OCCURRENCE	30	18-19	08	08	07-08	11-12	28-29	12-13	18-19	02-03	02-03	03-04	OCT 02-03	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	4	4	3	8	13	7	7	4	5	13	4	7	79	
PRECIPITATION ≥ 0.10	2	3	2	6	7	5	3	4	4	6	0	4	46		
PRECIPITATION ≥ 1.00	0	0	0	0	3	3	1	3	0	4	0	0	14		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	1.1	0.7	3.0	T	T	0.0	0.0	0.0	0.0	0.0	T	11.3	16.1	
	GREATEST 24-HOUR (IN.)	1.0	0.4	2.5	T	T	0.0	0.0	0.0	0.0	0.0	T	5.1	5.1	
	DATE OF OCCURRENCE	30	05	02	11	08+	0	0	0	0	0	01	04	DEC 04	
	MAXIMUM SNOW DEPTH (IN.)	1	1	3	0	0	0	0	0	0	0	0	6	6	
	DATE OF OCCURRENCE	31	03+	03+									05	DEC 05	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	0	1	0	0	0	0	0	0	0	0	4	6		

# NORMALS, MEANS, AND EXTREMES

## WICHITA, KS (ICT)

LATITUDE: 37° 38' 50" N      LONGITUDE: 97° 25' 46" W      ELEVATION (FT): GRND: 1338      BARO: 1341      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 03928

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	40.1	47.2	57.3	66.9	76.0	87.1	92.9	91.6	82.2	70.2	54.5	43.1	67.4
	MEAN DAILY MAXIMUM	49	39.8	45.8	55.5	66.7	75.4	85.2	91.1	89.5	80.4	69.0	54.2	44.8	66.5
	HIGHEST DAILY MAXIMUM	50	75	87	89	96	100	110	113	110	108	95	85	83	113
	YEAR OF OCCURRENCE		2002	1996	1989	1972	1996	1980	1954	1984	2000	1979	1980	1955	JUL 1954
	MEAN OF EXTREME MAXS.	50	61.5	67.9	77.8	84.0	89.5	97.4	101.7	101.1	95.5	86.4	72.1	63.3	83.2
	NORMAL DAILY MINIMUM	30	20.3	25.3	34.4	43.7	54.0	63.9	69.1	67.9	59.3	46.9	33.9	24.0	45.2
	MEAN DAILY MINIMUM	49	19.8	24.3	32.5	43.7	53.6	63.2	68.4	66.8	58.3	46.1	33.3	24.2	44.5
	LOWEST DAILY MINIMUM	50	-12	-21	-2	15	31	43	51	48	31	18	1	-16	-21
	YEAR OF OCCURRENCE		1962	1982	1960	1975	1976	1969	1975	1967	1984	1993	1975	1989	FEB 1982
	MEAN OF EXTREME MINS.	50	1.5	5.8	14.6	27.4	38.7	50.6	58.4	55.9	42.1	29.9	17.7	6.7	29.1
	NORMAL DRY BULB	30	29.5	34.8	45.4	56.4	65.6	75.7	81.4	79.3	70.3	58.6	44.7	33.0	56.2
	MEAN DRY BULB	49	29.7	35.2	44.0	55.2	64.6	74.2	79.8	78.3	69.5	57.5	43.6	34.0	55.5
	MEAN WET BULB	47	29.2	34.4	42.6	53.7	63.9	72.4	75.9	74.5	67.0	56.0	43.0	33.1	53.8
	MEAN DEW POINT	47	22.8	27.3	34.6	46.5	58.7	67.2	70.1	68.6	61.5	49.4	36.7	27.1	47.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	2.0	12.1	21.9	18.9	7.0	0.8	0.0	0.0	63.0	
MAXIMUM ≤ 32°	30	9.4	5.5	1.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.0	22.6	
MINIMUM ≤ 32°	30	28.4	22.5	14.6	2.8	0.1	0.0	0.0	0.0	*	1.3	14.3	26.8	110.8	
MINIMUM ≤ 0°	30	2.2	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.2	
H/C	NORMAL HEATING DEG. DAYS	30	1087	819	594	302	89	5	0	0	49	235	620	965	4765
	NORMAL COOLING DEG. DAYS	30	0	0	2	19	93	330	503	454	221	35	1	0	1658
RH	NORMAL (PERCENT)	30	70	68	64	63	67	64	59	61	67	65	70	72	66
	HOUR 00 LST	30	75	74	71	71	76	74	67	69	75	73	76	76	73
	HOUR 06 LST	30	78	78	77	78	82	82	78	79	83	80	80	80	80
	HOUR 12 LST	30	62	60	55	52	56	53	48	50	56	53	59	63	56
	HOUR 18 LST	30	64	59	52	50	54	49	44	46	53	54	64	67	55
S	PERCENT POSSIBLE SUNSHINE	47	59	60	63	65	64	69	76	77	70	65	58	57	65
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	49	3.0	2.7	1.5	0.9	0.7	0.3	0.2	0.2	1.0	1.3	2.0	3.4	17.2
	THUNDERSTORMS	49	0.3	0.9	2.9	5.2	8.7	9.7	8.2	7.1	5.5	3.1	1.2	0.4	53.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1	6.4	6.0	5.6	6.0	4.4	3.2	2.4	2.1	3.2	3.6	4.0	5.6	4.4
	MIDNIGHT-MIDNIGHT (OKTAS)	1	6.4	6.0	6.4	5.6	4.4	2.8	2.4	2.4	3.2	4.8	4.0	4.0	4.4
	MEAN NO. DAYS WITH:														
	CLEAR	3	6.3	6.7	7.0	6.5	11.0	10.5	15.0	16.5	6.0	10.5	7.0	11.0	114.0
PARTLY CLOUDY	2	5.0	6.5	3.5	2.5	8.0	7.0	4.5	5.0	3.0	4.0	2.5	3.5	55.0	
CLOUDY	3	8.3	8.0	8.0	9.0	5.5	3.0	3.0	2.0	2.5	5.0	8.0	7.5	69.8	
PR	MEAN STATION PRESSURE(IN)	30	28.69	28.65	28.53	28.53	28.51	28.52	28.57	28.59	28.61	28.63	28.62	28.68	28.59
	MEAN SEA-LEVEL PRES. (IN)	48	32.04	31.98	31.86	31.80	31.77	31.78	31.80	31.83	31.87	31.96	31.99	32.01	31.89
WINDS	MEAN SPEED (MPH)	41	11.9	12.5	13.6	13.9	12.2	11.9	11.3	11.0	11.5	11.9	12.2	11.7	12.1
	PREVAIL.DIR(TENS OF DEGS)	30	36	36	18	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	10	48	44	49	56	61	48	70	52	40	49	48	44	70
	DIR. (TENS OF DEGS)		35	02	24	23	18	17	34	04	18	31	33	32	34
	YEAR OF OCCURRENCE		1996	1997	2000	2001	1998	1998	1996	1998	2001	1993	1997	1997	JUL 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	10	59	55	61	66	70	59	101	72	53	53	57	53	101	
DIR. (TENS OF DEGS)		35	33	32	23	18	36	04	04	19	31	35	35	04	
YEAR OF OCCURRENCE		1996	1999	2002	2001	1998	1996	1993	1998	2001	1993	1997	2000	JUL 1993	
PRECIPITATION	NORMAL (IN)	30	0.84	1.02	2.71	2.57	4.16	4.25	3.31	2.94	2.96	2.45	1.82	1.35	30.38
	MAXIMUM MONTHLY (IN)	49	2.73	3.89	9.17	6.02	9.62	10.46	9.22	7.91	10.69	9.42	5.88	4.71	10.69
	YEAR OF OCCURRENCE		1973	2001	1973	1999	1993	1957	1962	1960	1999	1998	1964	1984	SEP 1999
	MINIMUM MONTHLY (IN)	49	T	T	0.01	0.22	0.52	0.40	0.05	0.14	0.03	T	T	0.03	T
	YEAR OF OCCURRENCE		1986	1991	1971	1963	1973	1998	1975	2000	1956	1958	1989	1955	FEB 1991
	MAXIMUM IN 24 HOURS (IN)	49	1.72	2.05	2.65	2.51	4.70	4.98	3.86	4.50	7.93	5.84	4.33	2.60	7.93
	YEAR OF OCCURRENCE		1980	2001	1961	1988	1963	1965	1983	1991	1999	1998	1964	1984	SEP 1999
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	5.1	5.3	7.9	8.0	10.6	9.3	7.1	7.7	7.9	6.2	5.2	5.8	86.1
	PRECIPITATION ≥ 1.00	30	0.1	0.1	0.7	0.5	1.1	1.3	0.9	0.8	1.1	0.6	0.5	0.2	7.9
SNOWFALL	NORMAL (IN)	30	4.6	4.1	2.2	0.3	0.0	0.0	0.0	0.0	0.1	1.6	3.4	16.3	
	MAXIMUM MONTHLY (IN)	49	19.7	16.7	16.5	4.6	T	T	T	T	T	1.5	7.1	13.8	19.7
	YEAR OF OCCURRENCE		1987	1971	1970	1979	1991	1992	1993	1994	1992	1991	1972	1983	JAN 1987
	MAXIMUM IN 24 HOURS (IN)	49	13.0	11.9	13.5	4.6	T	T	T	T	T	1.5	6.8	9.0	13.5
	YEAR OF OCCURRENCE		1962	1971	1970	1979	1991	1992	1993	1994	1992	1991	1984	1983	MAR 1970
	MAXIMUM SNOW DEPTH (IN)	50	17	13	13	3	0	0	0	0	0	T	5	8	17
	YEAR OF OCCURRENCE		1962	1971	1970	1979						1993	1987	1987	JAN 1962
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	1.4	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	4.5	

PRECIPITATION (inches) 2002 WICHITA, KS (ICT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	2.73	1.20	9.17	3.78	0.52	1.21	6.07	0.68	9.46	3.43	0.91	2.80	41.96
1974	0.56	0.25	2.36	4.29	4.65	2.79	0.09	4.11	1.08	3.44	2.69	2.22	28.53
1975	1.28	2.12	1.72	1.57	8.60	6.88	0.05	2.77	1.19	0.08	2.89	0.48	29.63
1976	0.04	0.25	1.50	5.57	2.69	3.12	6.13	0.31	2.02	1.82	0.06	0.07	23.58
1977	0.54	0.08	1.42	3.32	8.85	3.15	3.98	6.31	4.35	1.19	2.38	0.19	35.76
1978	0.49	1.71	2.10	2.71	2.24	3.19	1.49	1.90	3.58	0.05	2.21	0.59	22.26
1979	1.57	0.23	4.47	1.46	3.05	6.54	2.18	0.67	1.54	2.96	2.05	1.99	28.71
1980	1.82	0.81	3.99	1.07	2.66	1.34	0.47	3.76	0.67	1.25	0.54	2.11	20.49
1981	0.25	0.22	2.15	0.38	6.33	4.25	1.27	2.65	2.25	4.69	2.93	0.29	27.66
1982	1.68	0.77	2.05	0.73	7.82	8.28	0.56	1.51	1.08	0.41	0.73	1.51	27.13
1983	1.66	1.23	4.26	3.80	4.08	7.38	3.86	1.39	2.53	2.97	2.39	1.13	36.68
1984	0.20	1.23	7.57	3.71	1.15	2.30	0.30	0.75	2.18	2.78	1.44	4.71	28.32
1985	0.26	2.07	1.64	2.28	2.01	4.79	3.97	2.86	5.97	5.58	1.60	0.61	33.64
1986	T	1.26	1.22	1.80	2.98	5.39	3.42	6.00	3.81	3.61	0.58	1.22	31.29
1987	1.40	3.33	4.13	0.61	8.01	4.50	2.14	7.69	2.10	0.90	1.50	2.25	38.56
1988	0.51	0.18	2.91	4.46	2.40	1.86	0.91	1.10	0.53	0.94	0.77	0.50	17.07
1989	0.79	0.39	2.38	0.23	4.96	7.96	4.07	5.72	7.38	0.37	T	0.44	34.69
1990	1.73	2.19	2.68	0.80	1.29	1.91	1.72	2.01	1.95	0.64	2.01	0.78	19.71
1991	0.58	T	0.71	2.27	4.09	1.34	2.65	7.57	2.08	1.00	2.38	2.07	26.74
1992	0.67	0.47	3.60	1.42	3.44	7.26	4.77	1.94	2.94	2.80	4.91	1.16	35.38
1993	1.12	2.25	1.75	2.11	9.62	4.44	6.21	1.31	1.77	1.68	0.55	0.30	33.11
1994	0.03	0.27	0.25	3.80	0.95	2.72	5.89	2.30	1.08	3.45	3.08	1.04	24.86
1995	0.44	0.41	2.45	3.40	5.99	8.86	4.20	5.51	2.00	0.28	0.08	0.68	34.30
1996	0.10	0.10	1.82	1.48	4.42	2.06	3.97	5.24	3.80	1.90	3.56	0.03	28.48
1997	0.36	2.18	0.46	3.81	4.78	4.35	5.89	4.36	3.50	3.39	1.30	2.65	37.03
1998	1.04	0.31	4.22	3.37	1.64	0.40	5.17	1.58	3.25	9.42	3.20	1.06	34.66
1999	1.35	0.39	1.89	6.02	7.17	7.55	3.48	1.25	10.69	0.16	1.45	4.06	45.46
2000	0.92	2.72	5.99	1.21	3.00	7.00	3.66	0.14	1.02	4.82	0.98	0.36	31.82
2001	1.47	3.89	2.25	1.42	3.12	4.31	1.24	1.90	3.10	1.06	0.65	0.08	24.49
2002	1.12	0.82	0.43	2.65	5.70	5.37	1.96	4.90	0.81	8.29	0.18	1.22	33.45
POR= 49 YRS	0.76	1.01	2.27	2.38	4.07	4.33	3.47	3.00	3.30	2.66	1.55	1.15	29.95

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AVERAGE TEMPERATURE (°F) 2002 WICHITA, KS (ICT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	27.4	35.6	48.4	52.2	61.9	76.8	80.3	79.8	67.8	61.1	46.7	31.9	55.8
1974	24.9	38.7	47.9	56.4	68.3	72.5	84.4	76.7	64.1	60.5	44.9	35.1	56.2
1975	33.4	28.5	40.4	54.7	64.0	73.6	79.2	81.4	65.8	60.3	44.8	36.0	55.2
1976	32.0	45.5	46.3	57.5	60.2	73.7	78.4	79.7	69.8	52.4	38.3	33.7	55.6
1977	24.5	41.7	50.2	59.8	69.2	78.3	83.6	77.9	73.2	59.8	46.1	35.0	58.3
1978	20.5	23.8	43.6	59.0	65.0	76.8	85.1	81.2	76.3	58.6	45.0	32.0	55.6
1979	16.7	24.0	46.9	54.1	64.1	74.5	80.4	79.8	72.7	61.9	41.8	37.7	54.6
1980	31.4	28.2	41.5	54.3	63.5	79.9	90.5	85.3	75.2	58.8	46.9	36.9	57.7
1981	34.1	40.1	47.6	63.7	62.6	77.9	83.6	78.1	72.0	55.9	47.0	32.9	58.0
1982	25.5	28.0	46.0	53.5	65.3	70.4	81.5	82.0	71.9	58.0	43.0	36.1	55.1
1983	31.7	35.5	43.3	48.0	60.5	71.5	81.6	85.0	72.7	58.5	45.5	16.4	54.2
1984	26.7	41.4	40.7	51.8	63.6	77.7	81.6	82.8	70.3	58.3	45.5	37.2	56.5
1985	25.2	31.2	49.1	59.9	67.7	74.0	81.7	77.5	69.8	57.4	39.4	28.8	55.1
1986	38.1	37.8	51.9	58.7	66.7	78.7	83.0	75.9	73.6	57.6	39.9	35.8	58.1
1987	29.3	42.3	47.0	57.4	69.7	76.4	80.1	78.7	70.4	55.7	47.7	34.9	57.5
1988	27.0	34.1	44.2	53.9	68.3	78.6	80.9	83.0	72.0	56.7	47.5	38.5	57.1
1989	38.5	27.5	47.0	59.6	66.0	72.0	79.0	77.0	65.7	60.7	45.5	25.2	55.3
1990	39.5	38.8	46.9	54.3	63.7	81.7	81.7	80.8	74.3	58.4	50.4	30.2	58.4
1991	28.9	44.6	49.7	58.9	70.4	79.3	83.8	80.5	69.6	59.4	39.5	39.1	58.6
1992	39.0	44.9	50.0	56.7	63.3	71.2	78.9	73.8	71.0	59.1	41.3	33.3	56.9
1993	28.6	32.2	43.1	52.5	63.5	74.5	81.7	81.0	67.4	55.3	40.8	37.8	54.9
1994	31.0	33.9	50.3	54.7	66.4	79.3	77.6	79.0	70.5	60.5	46.7	37.1	57.3
1995	32.9	40.6	45.4	52.3	60.2	72.3	80.1	80.9	68.5	59.1	43.8	33.5	55.8
1996	28.3	38.0	40.6	55.2	69.6	77.2	79.1	77.4	67.7	58.4	40.8	34.0	55.5
1997	30.9	37.5	47.4	51.0	62.9	73.9	79.3	76.7	72.6	59.2	42.1	34.6	55.7
1998	34.5	41.2	40.6	54.3	69.9	78.4	81.8	81.6	78.6	60.8	49.5	36.0	58.9
1999	32.7	45.3	44.6	56.0	65.3	73.0	82.3	81.2	67.1	59.2	53.3	37.7	58.1
2000	33.8	42.0	48.5	55.1	68.9	73.1	80.3	86.6	74.4	61.6	40.2	23.9	57.4
2001	32.3	33.5	42.8	60.2	67.5	75.3	86.3	82.7	70.0	59.1	50.9	39.0	58.3
2002	36.0	37.6	42.0	58.2	63.7	76.5	81.6	80.3	73.7	52.3	44.2	35.6	56.8
POR= 49 YRS	30.4	36.0	45.0	56.4	65.8	75.7	81.5	79.9	70.8	58.8	44.6	34.1	56.6

HEATING DEGREE DAYS (base 65°F) 2002 WICHITA, KS (ICT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	58	159	541	1021	1237	732	529	263	42	1	4583
1974-75	0	0	92	156	596	920	974	1016	757	333	72	9	4925
1975-76	0	0	98	201	596	892	1015	562	575	238	173	2	4352
1976-77	0	0	38	409	794	966	1253	646	456	170	12	0	4744
1977-78	0	0	1	176	558	926	1375	1149	663	194	112	6	5160
1978-79	0	0	18	210	598	1016	1491	1143	560	333	104	3	5476
1979-80	0	0	10	156	690	838	1038	1063	723	318	116	0	4952
1980-81	0	0	28	239	535	864	954	692	533	104	126	0	4075
1981-82	0	0	24	292	537	990	1214	1033	583	356	54	17	5100
1982-83	0	0	37	239	653	889	1022	818	664	507	168	20	5017
1983-84	0	0	47	221	582	1504	1180	680	747	394	95	0	5450
1984-85	0	0	103	237	576	856	1224	938	487	184	33	8	4646
1985-86	0	0	111	230	762	1116	826	755	416	220	41	0	4477
1986-87	0	3	11	233	747	899	1099	631	551	263	14	0	4451
1987-88	0	2	7	282	523	924	1170	891	637	330	33	0	4799
1988-89	0	0	16	265	519	813	817	1044	556	238	90	8	4366
1989-90	0	0	105	193	578	1228	783	728	555	332	112	0	4614
1990-91	0	0	18	238	445	1074	1114	567	475	201	53	0	4185
1991-92	0	0	71	242	759	793	802	574	461	259	113	10	4084
1992-93	0	2	25	209	703	975	1122	913	670	368	100	10	5097
1993-94	0	0	59	321	718	837	1046	862	458	321	66	0	4688
1994-95	0	0	33	186	542	856	989	675	603	375	164	2	4425
1995-96	0	0	90	205	627	969	1129	776	749	308	49	5	4907
1996-97	0	0	48	231	719	953	1050	763	541	415	106	0	4826
1997-98	0	0	9	263	680	934	941	660	754	322	30	21	4614
1998-99	0	0	4	157	459	892	994	545	625	271	64	10	4021
1999-00	0	0	69	198	345	838	960	659	506	289	46	5	3915
2000-01	0	0	55	154	740	1266	1009	878	679	167	46	0	4994
2001-02	0	0	23	199	419	796	888	759	704	245	112	2	4147
2002-	0	0	8	404	617	905							

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COOLING DEGREE DAYS (base 65°F) 2002 WICHITA, KS (ICT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	7	39	360	482	468	149	47	0	0	1552
1974	0	0	4	12	149	233	608	368	69	23	0	0	1466
1975	0	0	0	32	49	275	450	515	128	63	0	0	1512
1976	0	0	2	19	32	270	420	464	187	23	0	0	1417
1977	0	0	3	19	152	404	581	404	254	24	0	0	1841
1978	0	0	6	20	122	366	631	510	364	23	5	0	2047
1979	0	0	5	14	81	294	488	465	249	67	0	0	1663
1980	0	0	0	3	75	456	796	635	340	52	1	0	2358
1981	0	0	0	72	56	393	582	412	240	17	0	0	1772
1982	0	0	1	16	70	186	516	534	253	29	0	0	1605
1983	0	0	0	2	34	220	521	628	286	28	5	0	1724
1984	0	0	0	6	61	388	520	558	272	35	0	0	1840
1985	0	0	0	36	122	285	523	394	262	1	0	0	1623
1986	0	0	17	40	102	419	563	349	275	10	0	0	1775
1987	0	0	0	42	166	350	473	434	177	3	10	0	1655
1988	0	0	0	3	140	415	497	566	235	15	0	0	1871
1989	0	0	5	81	129	225	442	379	132	70	0	0	1463
1990	0	0	0	17	79	508	525	497	306	41	11	0	1984
1991	0	0	9	25	225	433	592	484	214	77	0	0	2059
1992	0	0	0	17	66	203	441	281	213	37	0	0	1258
1993	0	0	0	0	59	304	526	502	134	27	0	0	1552
1994	0	0	7	22	117	434	399	441	202	55	0	0	1677
1995	0	0	6	4	24	231	478	502	204	32	0	0	1481
1996	0	0	0	19	197	377	444	393	136	35	0	0	1601
1997	0	0	0	0	47	274	448	369	244	89	0	0	1471
1998	0	0	5	7	189	427	528	522	416	37	0	0	2131
1999	0	0	0	7	78	259	543	511	136	28	1	0	1563
2000	0	0	0	2	174	256	483	675	341	57	0	0	1988
2001	0	0	0	31	129	317	670	557	178	25	2	0	1909
2002	0	0	0	50	80	354	522	483	278	22	0	0	1789

SNOWFALL (inches) 2002 WICHITA, KS (ICT)

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	8.7	4.1	0.7	2.0	0.3	0.0	0.0	15.8
1974-75	0.0	0.0	0.0	0.0	1.8	2.2	7.6	15.2	7.6	T	0.0	0.0	34.4
1975-76	0.0	0.0	0.0	0.0	5.5	T	0.6	0.9	T	0.0	0.0	0.0	7.0
1976-77	0.0	0.0	0.0	T	0.3	T	3.6	T	T	T	0.0	0.0	3.9
1977-78	0.0	0.0	0.0	0.0	T	T	7.4	7.8	0.3	0.0	0.0	0.0	15.5
1978-79	0.0	0.0	0.0	0.0	T	6.7	13.9	1.9	1.6	4.6	0.0	0.0	28.7
1979-80	0.0	0.0	0.0	0.0	T	T	T	12.3	0.4	0.0	0.0	0.0	12.7
1980-81	0.0	0.0	0.0	T	T	0.4	T	2.5	0.2	0.0	0.0	0.0	3.1
1981-82	0.0	0.0	0.0	0.0	T	1.2	0.0	12.7	T	0.0	0.0	0.0	13.9
1982-83	0.0	0.0	0.0	0.0	T	1.4	13.0	8.9	1.5	0.7	0.0	0.0	25.5
1983-84	0.0	0.0	0.0	0.0	4.1	13.8	4.3	T	6.9	0.0	0.0	0.0	29.1
1984-85	0.0	0.0	0.0	0.0	6.8	7.6	3.5	3.6	0.2	0.0	0.0	0.0	21.7
1985-86	0.0	0.0	0.0	0.0	1.0	3.0	0.0	7.5	0.0	0.0	0.0	0.0	11.5
1986-87	0.0	0.0	0.0	0.0	T	0.4	19.7	6.0	T	0.0	0.0	0.0	26.1
1987-88	0.0	0.0	0.0	0.0	6.2	12.6	8.5	1.1	11.0	0.0	0.0	0.0	39.4
1988-89	0.0	0.0	0.0	0.0	3.0	0.7	0.3	0.8	T	T	T	T	4.8
1989-90	0.0	0.0	0.0	0.0	T	4.4	0.3	7.0	0.7	0.1	0.0	0.0	12.5
1990-91	0.0	0.0	0.0	0.0	0.0	4.8	2.1	0.0	T	T	T	T	6.9
1991-92	0.0	0.0	0.0	1.5	0.3	0.0	T	T	T	T	0.0	T	1.8
1992-93	0.0	0.0	T	T	3.8	3.3	7.7	5.1	2.2	T	0.0	0.0	22.1
1993-94	T	0.0	0.0	T	T	0.1	T	1.2	T	T	0.0	0.0	1.3
1994-95	0.0	T	0.0	0.0	0.0	0.0	1.9	2.6	5.6	0.0	0.0	0.0	10.1
1995-96	0.0	0.0	0.0	0.0	0.3	5.7	1.9	0.6	T	T	0.0	0.0	8.5
1996-97	0.0	0.0	0.0	0.2	4.6	0.4	3.8	5.5	T	2.0	0.0	0.0	16.5
1997-98	T	0.0	0.0	0.1	0.8	5.4	0.6	T	13.6	0.0	0.0	0.0	20.5
1998-99	0.0	0.0	0.0	0.0	0.0	0.9	0.1	T	8.3	T	T	0.0	9.3
1999-00	0.0	0.0	T	0.0	0.0	7.5	10.2	T	4.2	0.0	0.0	0.0	21.9
2000-01	0.0	0.0	0.0	0.0	T	5.5	2.5	1.1	T	T	T	T	9.1
2001-02	0.0	0.0	T	0.0	0.0	0.0	1.1	0.7	3.0	T	T	0.0	4.8
2002-	0.0	0.0	0.0	0.0	T	11.3							
POR= 49 YRS	T	T	T	T	1.3	3.3	4.2	3.5	2.6	0.3	T	T	15.2

WBAN : 03928

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 WICHITA, KANSAS (ICT)

Wichita is in the Central Great Plains where masses of warm, moist air from the Gulf of Mexico collide with cold, dry air from the Arctic region to create a wide range of weather the year around. Summers are usually warm and humid, and can be very hot and dry. The winters are usually mild, with brief periods of very cold weather.

The elevation is just over 1,300 feet above sea level. The terrain is basically flat with natural tree areas mainly along the Arkansas River and its tributaries.

The temperature extremes for the period of weather records at Wichita range from more than 110 degrees to less than -20 degrees. Temperatures above 90 degrees occur an average of 63 days per year, while very cold temperatures below zero occur about 2 days per year.

Precipitation averages about 30 inches per year, with 70 percent of that falling from April through September during the growing season. The wettest years have recorded over 50 inches. The driest years less than 15 inches.

Thunderstorms occur mainly during the spring and early summer. They can be severe and cause damage from heavy rain, large hail, strong winds and tornadoes.

The city of Wichita is protected against floods from the Arkansas River and its local tributaries by the Wichita-Vally Center Flood Control Project, which is designed to protect against floods up to the 75 to 100 year frequency class.

Snowfall normally is 15 inches per year, falling from December through March. Monthly snowfalls in excess of 20 inches and 24-hour snowfalls of more than 13 inches have occurred.

The prevailing wind direction is south with the windiest months March and April. July has the least wind. Strong north winds often occur with the passage of cold fronts from late fall through early spring. Extremely low wind chill factors are experienced with very cold outbreaks during the mid winter. On rare occasions during the summer, strong, hot, dry southwest winds can do considerable damage to crops.

# STATION LOCATION

WICHITA, KANSAS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE	WEIGHING GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
*NOTE:																	
<u>AIRPORT</u>																	
NWS Building Mid-Continent Airport	12/10/81	11/1/92	0.88 mi. W	37°39'	97°27'	1339	e25 g33	5	5	e32 f7	4	4	4	e5		Instruments moved 12/11/81. e. Not moved 12/11/81. f. Moved to new site 12/21/81. g. Raised 8/3/84.	
Mid-Continent Airport	11/01/92	Present	NA	37°39'	97°26'	h1338								S		ASOS commissioned 11/1/92. h. Ground elevation.	

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\* NOTES: For earlier station history see previous edition.