

1997

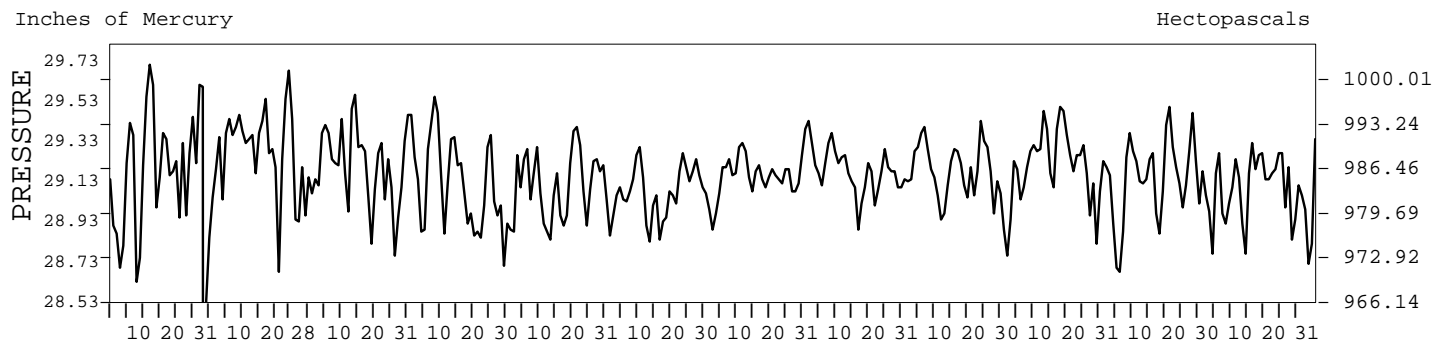
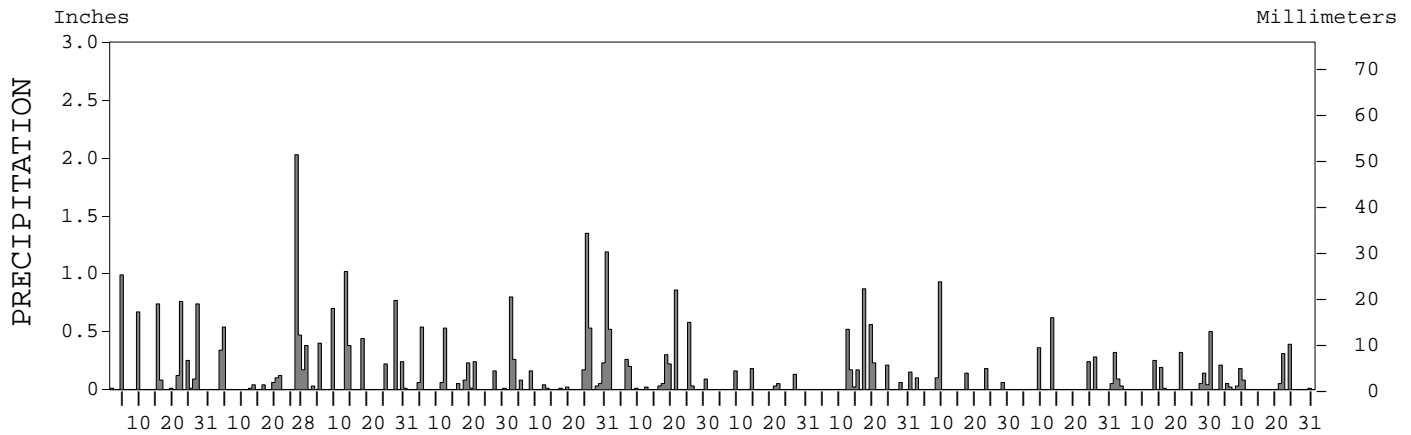
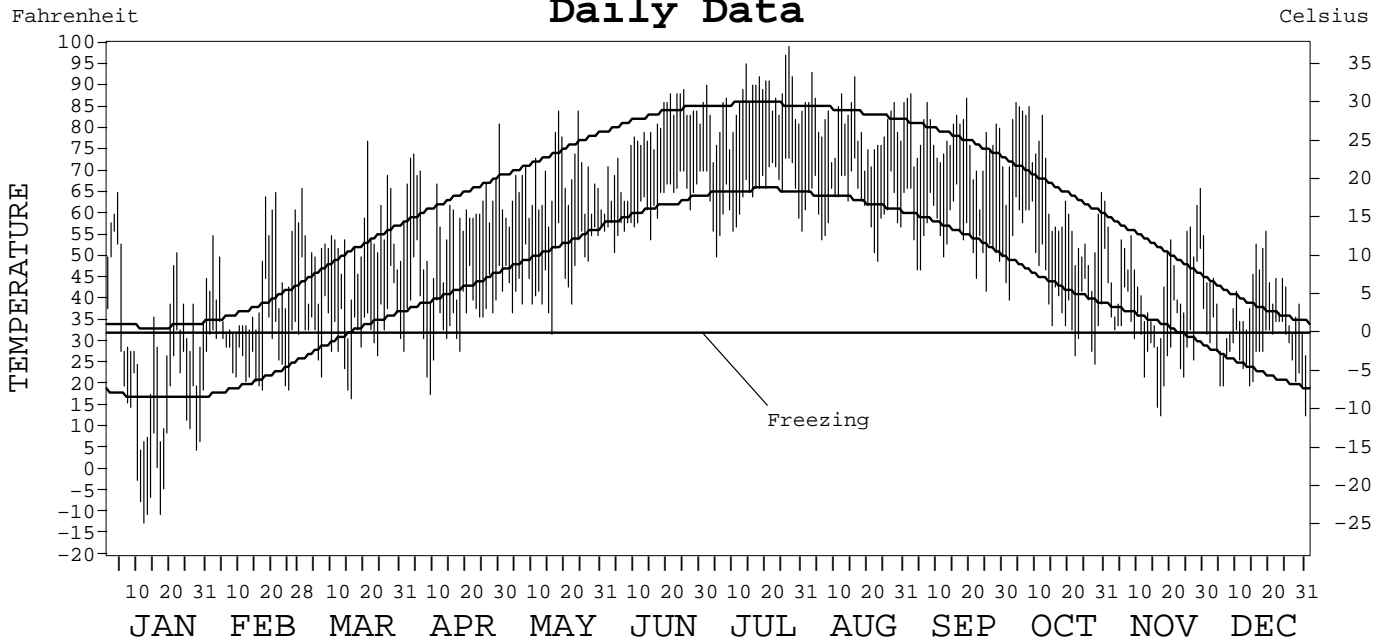
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-2001

INDIANAPOLIS, INDIANA (IND)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

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METEOROLOGICAL DATA FOR 1997

INDIANAPOLIS, IN (IND)

LATITUDE: 39° 42' 36" N LONGITUDE: 86° 16' 20" W ELEVATION (FT): GRND: 795 BARO: 837 TIME ZONE: EASTERN (UTC+ 5) WBAN: 93819

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	32.5	43.7	52.6	59.7	66.9	77.6	86.2	80.8	77.1	65.0	45.8	39.3	60.6	
	HIGHEST DAILY MAXIMUM	65	65	77	81	84	89	99	93	88	86	66	56	99	
	DATE OF OCCURRENCE	4	21	21	30	24+	25	27	03	02	04	29	19	JUL 27	
	MEAN DAILY MINIMUM	16.1	28.2	33.3	36.8	46.5	61.6	64.5	62.3	55.0	44.2	32.1	27.5	42.3	
	LOWEST DAILY MINIMUM	-12	19	17	18	32	51	50	49	42	25	13	13	-12	
	DATE OF OCCURRENCE	12	25+	16	09	16	04	05	23	25	28	17	31	JAN 12	
	AVERAGE DRY BULB	24.3	36.0	43.0	48.3	56.7	69.6	75.4	71.6	66.1	54.6	39.0	33.4	51.5	
	MEAN WET BULB		32.9	38.2	41.9	50.5	64.9	68.6	66.3	60.5	49.8	37.1	31.2		
	MEAN DEW POINT		28.5	32.3	33.3	43.6	62.1	64.9	63.4	56.6	45.3	33.6	28.1		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	10	2	0	0	0	0	0	12
	MAXIMUM ≤ 32°	17	3	1	0	0	0	0	0	0	0	2	7	30	
	MINIMUM ≤ 32°	26	21	11	8	1	0	0	0	0	4	15	24	110	
MINIMUM ≤ 0°	7	0	0	0	0	0	0	0	0	0	0	0	7		
H/C	HEATING DEGREE DAYS	1254	807	676	494	261	30	3	5	47	366	772	973	5688	
	COOLING DEGREE DAYS	0	0	0	0	12	178	327	217	87	49	0	0	870	
RH	MEAN (PERCENT)	77	76	70	59	64	79	73	78	75	74	81	83	74	
	HOUR 01 LST	78	81	75	68	70	89	86	91	86	82	85	86	81	
	HOUR 07 LST	81	82	80	75	74	89	88	93	93	89	90	88	85	
	HOUR 13 LST	73	70	63	49	56	67	57	64	56	61	71	77	64	
	HOUR 19 LST	76	72	66	48	56	70	63	69	67	67	79	80	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	1	0	1	0	2	0	2	0	0	1	0	10	
	THUNDERSTORMS	0	1	1	0	2	2	4	3	3	0	0	0	16	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.19	29.28	29.19	29.13	29.10	29.07	29.17	29.17	29.16	29.22	29.13	29.09	29.16	
	MEAN SEA-LEVEL PRESS. (IN.)		30.17	30.07	30.00	29.96	29.92	30.01	30.02	30.01	30.08	30.01	29.98		
WINDS	RESULTANT SPEED (MPH)		3.4	3.2	2.5	3.9	1.8	0.7	1.2	1.3	1.9	2.9	3.4		
	RES. DIR. (TENS OF DEGS.)		25	28	28	26	21	36	26	29	20	27	25		
	MEAN SPEED (MPH)	12.4	10.6	12.1	10.4	12.5	8.8	8.3	8.0	7.7	9.0	10.0	10.0	10.0	
	PREVAIL. DIR. (TENS OF DEGS.)	24	27	29	10	22	20	23	22	23	21	23	26	23	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	37	45	37	47	40	30	32	32	38	30	31	25	47	
	DIR. (TENS OF DEGS.)	25	24	25	25	30	31	30	02	25	25	02	24	25	
	DATE OF OCCURRENCE	05	27	28	06	15	21	14	16+	29	26	30+	24	APR 06	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	43	52	43	58	48	38	38	39	47	41	37	33	58	
DIR. (TENS OF DEGS.)	25	23	25	25	22	31	30	01	26	23	29	09	25		
DATE OF OCCURRENCE	05	27	28+	06	05	21	14+	16	29	26	26	24	APR 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.47	3.92	4.59	1.97	4.93	3.17	0.55	2.96	1.51	1.55	1.94	1.33	32.89	
	GREATEST 24-HOUR (IN.)	0.99	2.50	1.40	0.60	1.51	0.86	0.18	0.87	1.03	0.62	0.54	0.39	2.50	
	DATE OF OCCURRENCE	04	26-27	13-14	04-05	24-25	21	14	17	08-09	13	29-30	24-25	FEB 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	11	11	11	15	13	5	10	6	5	11	10	120	
PRECIPITATION ≥ 0.10	7	7	9	5	8	7	3	8	5	4	6	4	73		
PRECIPITATION ≥ 1.00	0	1	1	0	2	0	0	0	0	0	0	0	4		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	12.9	3.1	T	T	0.0	0.0	0.0	0.0	0.0	0.0	5.8	2.5	24.3	
	GREATEST 24-HOUR (IN.)	7.4	1.2	T	T	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.8	7.4	
	DATE OF OCCURRENCE	09	16	15+	17+	0	0	0	0	0	0	13	05	JAN 09	
	MAXIMUM SNOW DEPTH (IN.)	8	1	T	0	0	0	0	0	0	0	4	1	8	
	DATE OF OCCURRENCE	16	16+	15								16	06	JAN 16	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	4	2	0	0	0	0	0	0	0	0	2	0	8		

NORMALS, MEANS, AND EXTREMES

INDIANAPOLIS, IN (IND)

LATITUDE: 39° 42' 36" N LONGITUDE: 86° 16' 20" W ELEVATION (FT): GRND: 795 BARO: 837 TIME ZONE: EASTERN (UTC+ 5) WBAN: 93819

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.7	38.3	50.9	63.3	73.8	82.7	85.5	83.6	77.6	65.8	51.9	38.5	62.1
	MEAN DAILY MAXIMUM	50	34.9	39.4	50.1	62.8	73.2	82.4	85.4	83.7	77.5	66.1	51.0	39.2	62.1
	HIGHEST DAILY MAXIMUM	58	71	74	85	89	93	102	104	102	100	90	81	74	104
	YEAR OF OCCURRENCE		1950	1972	1981	1970	1988	1988	1954	1988	1954	1954	1950	1982	JUL 1954
	MEAN OF EXTREME MAXS.	50	57.3	61.8	74.0	81.7	86.8	92.5	94.0	92.5	90.0	82.2	71.0	61.0	78.7
	NORMAL DAILY MINIMUM	30	17.2	20.9	31.9	41.5	51.7	61.0	65.2	62.8	55.6	43.5	34.1	23.2	42.4
	MEAN DAILY MINIMUM	50	18.6	22.1	31.1	41.4	51.5	61.1	65.2	62.9	55.1	43.7	33.3	23.9	42.5
	LOWEST DAILY MINIMUM	58	-27	-21	-7	16	28	37	44	41	28	17	-2	-23	-27
	YEAR OF OCCURRENCE		1994	1982	1980	1940	1966	1992	1942	1965	1942	1942	1958	1989	JAN 1994
	MEAN OF EXTREME MINS.	50	-4.5	0.5	12.5	25.4	36.2	47.5	53.5	51.4	39.1	28.0	16.7	2.2	25.7
	NORMAL DRY BULB	30	25.5	29.6	41.4	52.4	62.8	71.9	75.4	73.2	66.6	54.7	43.0	30.9	52.3
	MEAN DRY BULB	50	26.8	30.7	40.5	52.1	62.4	71.8	75.3	73.3	66.3	54.9	42.1	31.5	52.3
	MEAN WET BULB	13	25.9	29.3	37.2	46.3	56.1	65.0	68.7	67.4	60.1	49.4	39.1	27.6	47.7
	MEAN DEW POINT	13	21.4	24.0	30.8	39.8	50.5	60.3	65.1	64.1	56.0	44.4	34.4	23.7	42.9
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.6	3.9	7.2	4.3	1.6	0.0	0.0	0.0	17.6	
MAXIMUM ≤ 32°	30	14.0	9.0	2.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.7	34.6	
MINIMUM ≤ 32°	30	27.8	23.4	16.9	5.5	0.4	0.0	0.0	0.0	0.0	4.2	14.2	24.9	117.3	
MINIMUM ≤ 0°	30	4.4	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.6	
H/C	NORMAL HEATING DEG. DAYS	30	1225	991	732	378	165	5	0	6	58	338	660	1057	5615
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	96	212	322	260	106	18	0	0	1014
RH	NORMAL (PERCENT)	30	75	74	70	66	67	68	73	75	74	72	76	78	72
	HOUR 01 LST	30	78	77	75	73	77	79	84	86	85	80	80	81	80
	HOUR 07 LST	30	80	81	80	78	81	82	86	90	90	86	84	83	83
	HOUR 13 LST	30	70	67	62	55	55	56	60	61	58	57	66	72	62
	HOUR 19 LST	30	72	70	65	58	57	58	62	66	67	65	72	76	66
S	PERCENT POSSIBLE SUNSHINE	52	40	49	50	54	60	65	66	68	65	61	41	38	55
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	56	3.3	2.5	1.7	0.6	0.8	0.7	1.1	1.7	1.4	1.2	1.6	2.8	19.4
	THUNDERSTORMS	56	0.7	0.7	2.7	4.4	6.2	7.2	7.6	6.0	3.5	1.8	1.1	0.4	42.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1			1.0		1.0									
PARTLY CLOUDY	1	1.0		2.0		1.0									
CLOUDY	1		2.0	6.0		1.0	1.0								
PR	MEAN STATION PRESSURE (IN)	25	29.20	29.20	29.10	29.10	29.10	29.10	29.20	29.20	29.20	29.20	29.20	29.20	29.17
	MEAN SEA-LEVEL PRES. (IN)	13	30.13	30.11	30.06	29.97	29.99	29.97	30.01	30.04	30.07	30.09	27.94	30.13	29.88
WINDS	MEAN SPEED (MPH)	43	11.2	10.9	12.0	11.6	9.9	8.7	7.7	7.3	8.1	9.1	10.7	10.7	9.8
	PREVAIL. DIR (TENS OF DEGS)	27	24	23	24	23	23	23	23	23	24	24	24	24	23
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	37	45	37	47	40	30	32	32	38	30	31	25	47
	DIR. (TENS OF DEGS)		25	24	25	25	30	31	30	20	25	25	20	24	25
	YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	APR 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	1	43	52	43	58	48	38	38	39	47	41	37	33	58	
DIR. (TENS OF DEGS)		25	23	25	25	22	31	30	10	26	23	29	90	25	
YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	APR 1997	
PRECIPITATION	NORMAL (IN)	30	2.32	2.46	3.79	3.70	4.00	3.49	4.47	3.64	2.87	2.63	3.23	3.34	39.94
	MAXIMUM MONTHLY (IN)	58	12.69	5.35	10.74	8.09	10.10	9.74	11.79	8.34	8.06	8.36	8.50	7.72	12.69
	YEAR OF OCCURRENCE		1950	1971	1963	1964	1943	1942	1992	1980	1989	1941	1985	1990	JAN 1950
	MINIMUM MONTHLY (IN)	58	0.21	0.36	0.92	0.98	1.06	0.36	0.55	0.68	0.24	0.17	0.82	0.45	0.17
	YEAR OF OCCURRENCE		1944	1978	1994	1976	1988	1988	1997	1964	1963	1963	1976	1976	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	55	3.47	2.50	3.05	2.56	3.53	3.80	5.32	4.72	3.07	3.90	4.15	2.83	5.32
	YEAR OF OCCURRENCE		1950	1977	1963	1961	1961	1963	1987	1976	1961	1959	1993	1990	JUL 1987
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.5	10.1	13.4	11.9	11.3	9.3	9.9	8.9	8.1	8.5	10.2	13.2	126.3	
PRECIPITATION ≥ 1.00	30	0.4	0.5	0.8	0.9	1.0	0.8	1.2	1.1	0.7	0.5	0.8	0.6	9.3	
SNOWFALL	NORMAL (IN)	30	8.2	7.8	3.2	0.5	0.*	0.0	0.0	0.0	0.4	1.6	5.8	27.5	
	MAXIMUM MONTHLY (IN)	66	30.6	18.0	12.5	4.0	0.2	T	0.0	T	0.0	9.3	8.3	27.5	30.6
	YEAR OF OCCURRENCE		1978	1979	1996	1940	1989	1995		1989		1989	1966	1973	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	55	12.2	12.5	11.3	3.1	0.2	T	0.0	T	0.0	7.5	8.2	11.5	12.5
	YEAR OF OCCURRENCE		1978	1965	1996	1953	1989	1995		1989		1989	1966	1973	FEB 1965
	MAXIMUM SNOW DEPTH (IN)	49	20	15	9	3	0	0	0	0	0	2	8	13	20
	YEAR OF OCCURRENCE		1978	1978	1960	1953						1989	1966	1973	JAN 1978
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.4	2.4	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.9	8.5	

PRECIPITATION (inches) 1997 INDIANAPOLIS, IN (IND)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	2.96	1.51	3.73	2.86	9.25	2.51	2.19	4.45	1.54	1.13	4.74	4.18	41.05
1969	6.19	1.23	1.33	4.42	1.82	4.16	8.02	2.98	2.89	4.83	2.86	2.04	42.77
1970	1.17	1.86	2.51	6.53	2.43	1.97	4.43	1.82	2.41	3.66	2.12	2.07	32.98
1971	1.98	5.35	1.49	1.16	4.25	3.39	5.68	1.93	3.10	1.84	1.29	6.02	37.48
1972	1.57	1.15	2.48	5.81	1.89	6.04	2.01	2.94	5.65	2.25	5.65	2.83	40.27
1973	2.27	1.11	5.63	2.76	1.79	5.91	6.67	2.74	2.43	3.11	3.62	4.27	42.31
1974	3.39	2.58	3.60	3.45	6.27	5.15	1.20	5.63	3.25	0.99	2.99	2.81	41.31
1975	4.37	4.13	4.16	4.14	2.42	5.73	4.63	4.68	2.32	2.80	3.63	3.71	46.72
1976	2.29	2.90	3.46	0.98	3.10	3.97	3.09	7.95	2.02	2.79	0.82	0.45	33.82
1977	1.50	3.62	3.83	1.91	2.78	3.86	2.57	4.47	3.40	2.79	3.01	4.31	38.05
1978	3.80	0.36	3.54	3.59	4.21	4.43	5.04	6.89	0.85	3.82	2.38	4.03	42.94
1979	3.24	2.86	2.43	3.14	2.23	3.93	11.06	6.09	0.36	2.32	4.37	2.57	44.60
1980	1.67	1.84	4.26	2.10	2.26	4.15	2.87	8.34	3.31	1.87	1.41	0.78	34.86
1981	0.36	2.88	1.22	5.81	9.23	1.64	5.75	1.69	2.04	2.35	1.12	3.40	37.49
1982	5.64	1.62	4.73	2.40	5.94	5.16	3.44	1.00	1.20	0.91	4.16	5.78	41.98
1983	1.05	1.03	2.94	4.47	4.68	4.53	1.58	2.79	1.28	3.87	4.55	3.43	36.20
1984	0.97	3.16	3.14	3.90	4.35	1.51	4.83	3.27	4.69	2.60	5.38	4.33	42.13
1985	1.37	3.73	5.94	2.60	4.60	3.06	4.06	5.29	2.71	1.82	8.50	3.30	46.98
1986	0.73	2.84	3.93	4.34	7.37	3.58	4.88	1.18	5.68	7.84	2.32	1.71	46.40
1987	1.55	1.28	1.84	2.68	1.77	4.11	9.22	0.86	1.41	1.36	2.60	4.77	33.45
1988	2.35	3.04	3.22	4.02	1.06	0.36	4.71	1.46	1.14	3.07	4.39	2.50	31.32
1989	1.75	1.32	3.72	4.32	5.79	3.80	6.15	8.05	8.06	2.92	2.79	1.90	50.57
1990	1.79	5.17	3.93	2.44	7.59	3.11	3.68	4.46	2.68	4.64	3.23	7.72	50.44
1991	1.59	1.94	6.41	4.34	4.64	0.91	2.17	3.54	1.12	5.47	3.95	1.45	37.53
1992	1.40	1.15	2.61	4.17	1.56	4.07	11.79	1.42	3.40	2.84	7.88	1.89	44.18
1993	3.29	2.31	3.72	3.75	2.76	5.15	4.94	6.42	5.69	2.25	8.30	2.18	50.76
1994	2.68	1.39	0.92	5.62	2.03	7.00	1.27	2.59	2.19	0.86	3.40	1.66	31.61
1995	2.44	0.90	2.99	2.79	7.37	3.49	2.61	4.16	1.27	2.08	2.64	2.72	35.46
1996	4.08	1.16	3.51	7.02	8.89	5.16	6.26	2.27	7.61	1.88	6.22	2.75	56.81
1997	4.47	3.92	4.59	1.97	4.93	3.17	0.55	2.96	1.51	1.55	1.94	1.33	32.89
POR= 126 YRS	2.86	2.50	3.76	3.70	4.00	4.02	3.89	3.29	3.13	2.68	3.31	2.89	40.03

WBAN : 93819

AVERAGE TEMPERATURE (°F) 1997 INDIANAPOLIS, IN (IND)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	25.1	26.4	42.8	53.7	58.6	72.3	75.3	74.5	65.8	54.4	42.9	30.6	51.9
1969	25.7	31.7	35.7	54.0	63.4	69.8	75.8	72.7	65.2	53.8	37.5	28.2	51.1
1970	17.9	28.6	38.1	55.1	65.6	71.5	75.2	74.2	69.1	55.2	40.9	34.7	52.2
1971	23.4	28.9	37.3	51.0	58.9	75.6	72.3	71.3	69.4	62.0	43.1	38.4	52.6
1972	26.5	28.4	39.8	52.1	65.0	68.8	74.6	73.1	68.3	51.5	39.9	31.9	51.7
1973	30.7	31.5	49.4	51.3	59.5	73.3	76.0	74.4	69.9	59.4	46.4	30.9	54.4
1974	31.6	32.4	45.3	55.0	62.1	68.6	76.0	71.8	60.6	52.5	42.5	32.9	52.6
1975	32.0	32.0	36.9	48.9	65.5	71.5	73.5	76.1	62.6	55.9	46.4	32.8	52.8
1976	23.9	38.8	46.6	53.4	58.8	71.3	73.9	71.3	63.6	48.7	34.7	24.6	50.8
1977	10.3	28.2	46.5	57.1	70.6	71.2	78.0	74.0	69.6	54.2	45.9	29.2	52.9
1978	18.2	17.8	36.7	55.2	63.5	74.0	77.2	75.0	70.4	52.7	45.7	34.4	51.7
1979	18.0	18.8	43.4	49.8	61.1	71.1	73.0	72.4	64.9	53.1	41.3	34.9	50.2
1980	28.5	22.5	36.0	49.1	64.0	69.1	78.5	76.6	67.9	50.9	40.3	31.8	51.3
1981	23.5	33.0	39.9	57.4	59.9	73.3	75.4	72.8	64.6	53.1	44.2	27.8	52.1
1982	20.1	26.4	42.5	48.6	68.6	67.8	76.2	71.7	64.4	55.7	44.2	40.2	52.2
1983	30.6	35.5	42.9	48.2	58.2	71.8	79.7	80.1	69.4	57.5	44.1	20.2	53.2
1984	22.8	37.3	33.0	50.0	58.8	75.3	72.4	74.3	64.2	61.3	43.0	38.9	52.6
1985	20.4	26.1	44.6	57.1	64.9	70.6	74.3	71.2	66.2	57.6	46.6	22.5	51.8
1986	28.5	31.4	43.9	53.8	63.5	72.8	77.5	70.1	69.8	55.6	39.8	32.3	53.3
1987	27.6	35.5	44.5	52.5	68.1	73.7	75.8	73.6	68.1	48.6	46.3	35.8	54.2
1988	25.9	27.2	41.4	51.9	64.4	73.4	78.3	77.5	67.3	48.2	44.2	31.7	52.6
1989	36.3	27.2	42.5	51.4	59.4	71.4	75.7	71.8	64.4	55.4	40.9	18.8	51.3
1990	37.3	37.6	46.2	51.4	60.1	71.3	73.9	72.5	66.9	53.9	47.5	34.6	54.4
1991	26.9	35.3	43.7	55.3	68.3	74.6	76.7	75.2	67.9	57.5	40.2	35.7	54.8
1992	31.5	38.4	43.2	52.1	60.5	68.1	73.5	69.5	65.1	53.4	43.2	33.3	52.7
1993	31.6	27.4	39.1	50.7	63.5	71.0	77.2	75.3	62.2	51.6	42.2	32.4	52.0
1994	21.8	29.7	41.0	54.1	60.4	75.0	75.5	71.8	66.5	57.0	48.6	38.9	53.4
1995	28.6	30.0	45.0	51.9	61.6	72.8	76.6	79.6	64.7	55.7	37.0	28.6	52.7
1996	25.1	31.2	35.6	49.3	61.9	72.1	73.1	74.9	65.5	55.3	37.3	34.4	51.3
1997	24.3	36.0	43.0	48.3	56.7	69.6	75.4	71.6	66.1	54.6	39.0	33.4	51.5
POR= 126 YRS	28.0	30.7	40.4	52.0	62.5	71.7	75.7	73.6	66.8	55.2	42.1	31.8	52.5

HEATING DEGREE DAYS (base 65°F) 1997 INDIANAPOLIS, IN (IND)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	4	13	49	354	656	1057	1211	925	904	329	121	38	5661
1969-70	0	0	85	358	816	1137	1458	1012	829	316	95	11	6117
1970-71	4	0	51	301	715	930	1281	1006	852	417	198	0	5755
1971-72	3	1	49	129	648	813	1186	1054	774	389	89	35	5170
1972-73	8	4	36	413	746	1018	1059	937	477	416	184	0	5298
1973-74	0	0	20	211	552	1052	1028	905	617	314	158	18	4875
1974-75	0	5	163	380	671	988	1016	918	866	481	78	22	5588
1975-76	8	0	137	288	551	992	1265	754	564	363	203	1	5126
1976-77	0	2	79	503	904	1249	1693	1025	567	276	45	19	6362
1977-78	0	0	30	326	575	1104	1443	1313	873	292	150	4	6110
1978-79	0	0	36	377	571	944	1453	1288	665	455	170	5	5964
1979-80	3	13	87	384	705	929	1123	1224	893	474	93	36	5964
1980-81	0	0	45	438	734	1022	1279	889	769	244	180	1	5601
1981-82	1	0	94	368	621	1146	1388	1075	690	486	26	18	5913
1982-83	0	2	110	325	621	764	1062	819	681	498	211	21	5114
1983-84	1	0	64	246	619	1386	1304	796	987	447	211	1	6062
1984-85	1	0	119	138	653	803	1375	1082	631	269	85	16	5172
1985-86	0	1	97	245	544	1311	1126	935	652	344	114	7	5376
1986-87	0	24	30	312	750	1009	1150	820	627	378	51	0	5151
1987-88	2	5	37	504	553	900	1205	1090	726	390	84	15	5511
1988-89	0	2	37	517	618	1024	882	1052	693	419	226	11	5481
1989-90	0	8	106	313	718	1426	851	760	588	432	153	19	5374
1990-91	4	1	86	348	518	932	1175	824	651	292	71	0	4902
1991-92	0	0	103	254	739	902	1035	766	670	390	185	34	5078
1992-93	2	7	88	353	645	973	1028	1046	796	424	103	35	5500
1993-94	0	1	129	409	680	1005	1332	984	738	336	192	3	5809
1994-95	0	4	61	256	483	805	1118	973	615	392	131	6	4844
1995-96	1	0	94	288	835	1125	1230	971	908	469	162	7	6090
1996-97	0	0	85	296	823	942	1254	807	676	494	261	30	5668
1997-	3	5	47	366	772	973							

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COOLING DEGREE DAYS (base 65°F) 1997 INDIANAPOLIS, IN (IND)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	5	78	190	344	245	95	18	0	0	975
1970	0	0	0	26	122	213	327	292	182	5	0	0	1167
1971	0	0	0	2	17	324	237	202	189	40	0	0	1011
1972	0	0	0	8	95	156	313	266	141	0	0	0	979
1973	0	0	0	11	20	256	349	302	172	44	1	0	1155
1974	0	0	11	19	73	131	346	225	40	3	2	0	850
1975	0	0	0	3	100	222	281	355	71	14	0	0	1046
1976	0	0	0	21	15	198	284	205	43	4	0	0	770
1977	0	0	3	45	226	212	410	286	175	0	6	0	1363
1978	0	0	0	4	110	282	382	318	203	1	0	0	1300
1979	0	0	0	7	57	197	255	250	92	24	0	0	882
1980	0	0	0	3	68	168	425	368	139	6	0	0	1177
1981	0	0	1	23	29	256	332	249	88	5	0	0	983
1982	0	0	0	0	146	109	356	214	98	40	3	1	967
1983	0	0	1	3	9	231	464	474	202	18	0	0	1402
1984	0	0	0	6	25	318	237	291	103	28	0	0	1008
1985	0	0	5	36	90	190	296	199	143	21	0	0	980
1986	0	0	6	12	74	249	395	189	181	24	0	0	1130
1987	0	0	0	6	156	265	343	279	137	0	0	0	1186
1988	0	0	1	3	72	274	422	395	114	2	0	0	1283
1989	0	0	1	20	57	215	338	227	94	21	0	0	973
1990	0	0	13	30	10	215	289	241	147	10	1	0	956
1991	0	0	0	7	178	294	367	323	196	30	0	0	1395
1992	0	0	0	10	53	137	274	152	99	1	0	0	726
1993	0	0	0	0	64	223	389	328	51	0	0	0	1055
1994	0	0	0	16	56	307	330	221	114	13	0	0	1057
1995	0	0	0	4	32	250	371	459	92	6	0	0	1214
1996	0	0	0	7	71	229	261	313	107	3	0	0	991
1997	0	0	0	0	12	178	327	217	87	49	0	0	870

SNOWFALL (inches) 1997 INDIANAPOLIS, IN (IND)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	0.0	0.6	1.6	9.3	0.8	6.4	T	0.0	0.0	18.7
1969-70	0.0	0.0	0.0	0.0	2.5	12.9	7.8	9.2	5.6	0.2	0.0	0.0	38.2
1970-71	0.0	0.0	0.0	0.0	0.2	0.4	1.5	8.2	2.8	T	0.0	0.0	13.1
1971-72	0.0	0.0	0.0	0.0	4.4	0.4	7.9	6.3	0.3	0.6	0.0	0.0	19.9
1972-73	0.0	0.0	0.0	T	1.9	1.1	0.4	1.4	2.0	1.1	0.0	0.0	7.9
1973-74	0.0	0.0	0.0	0.0	0.4	27.5	3.8	8.0	3.0	2.1	0.0	0.0	44.8
1974-75	0.0	0.0	0.0	0.0	3.8	5.8	6.8	4.8	10.5	0.1	0.0	0.0	31.8
1975-76	0.0	0.0	0.0	0.0	4.5	8.1	5.6	0.6	2.3	0.0	0.0	0.0	21.1
1976-77	0.0	0.0	0.0	0.0	0.4	3.1	20.9	3.6	1.6	0.4	0.0	0.0	30.0
1977-78	0.0	0.0	0.0	0.0	2.8	15.2	30.6	3.9	5.4	0.0	0.0	0.0	57.9
1978-79	0.0	0.0	0.0	0.0	T	0.7	19.1	18.0	0.2	0.4	0.0	0.0	38.4
1979-80	0.0	0.0	0.0	0.0	0.8	0.2	5.0	14.5	3.6	0.7	0.0	0.0	24.8
1980-81	0.0	0.0	0.0	T	3.4	2.1	3.9	7.2	0.7	0.0	0.0	0.0	17.3
1981-82	0.0	0.0	0.0	T	0.4	15.6	21.8	13.6	3.5	3.3	0.0	0.0	58.2
1982-83	0.0	0.0	0.0	0.0	0.1	0.4	2.8	2.5	1.3	T	0.0	0.0	7.1
1983-84	0.0	0.0	0.0	0.0	0.1	8.3	7.2	17.1	9.2	T	0.0	0.0	41.9
1984-85	0.0	0.0	0.0	0.0	2.5	3.6	10.6	11.0	T	0.1	0.0	0.0	27.8
1985-86	0.0	0.0	0.0	0.0	T	8.1	1.7	9.5	1.1	T	0.0	0.0	20.4
1986-87	0.0	0.0	0.0	0.0	T	1.6	11.6	5.3	1.4	T	0.0	0.0	19.9
1987-88	0.0	0.0	0.0	0.0	T	1.1	2.9	4.8	2.5	T	0.0	0.0	11.3
1988-89	0.0	0.0	0.0	T	0.4	6.8	0.1	2.4	1.9	1.7	0.2	0.0	13.5
1989-90	0.0	T	0.0	9.3	0.6	8.2	4.1	2.5	1.3	T	0.0	0.0	26.0
1990-91	0.0	0.0	0.0	0.0	0.0	9.6	5.4	2.4	0.1	0.0	T	0.0	17.5
1991-92	0.0	0.0	0.0	0.0	3.0	0.2	7.1	0.2	2.9	1.3	0.0	T	14.7
1992-93	0.0	0.0	0.0	0.1	1.4	3.7	3.1	17.2	3.0	T	0.0	0.0	28.5
1993-94	0.0	0.0	0.0	2.4	1.1	5.6	14.0	3.9	3.7	0.8	0.0	T	31.5
1994-95	0.0	0.0	0.0	0.0	0.0	2.5	13.1	3.6	0.6	0.0	0.0	T	19.8
1995-96	0.0	0.0	0.0	0.0	1.4	11.0	25.2	1.6	12.5	T	0.0	0.0	51.7
1996-97	0.0	0.0	0.0	0.0	0.9	14.6	12.9	3.1	T	T	0.0	0.0	31.5
1997-	0.0	0.0	0.0	0.0	5.8	2.5							
POR= 65 YRS	0.0	T	0.0	0.2	1.9	5.0	6.6	5.6	3.3	0.5	0.0	T	23.1

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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 (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1997
INDIANAPOLIS,
INDIANA (IND)

Indianapolis is located in the central part of the state and is situated on level or slightly rolling terrain. The greater part of the city lies east of the White River which flows in a general north to south direction.

The National Weather Service Forecast Office is located approximately 7 miles southwest of the central part of the city at the Indianapolis International Airport. From a field elevation of 797 feet above sea level at the Indianapolis International Airport the terrain slopes gradually downward to a little below 645 feet at the White River, then upward to just over 910 feet in the northwest corner and eastern sections of the county. The street elevation at the former city office located in the Old Federal Building is 718 feet.

Indianapolis has a temperate climate, with very warm summers and without a dry season. Very cold temperatures may be produced by the invasion of continental polar air in the winter from northern latitudes. The polar air can be quite frigid with very low humidity. The arrival of maritime tropical air from the Gulf in the summer brings warm temperatures and moderate humidity. One of the longest and most severe heat waves brought temperatures of 100 degrees or more for nine consecutive days.

Precipitation is distributed fairly evenly throughout the year, and therefore there is no pronounced wet or dry season. Rainfall in the spring and summer is produced mostly by showers and thunderstorms. A rainfall of about 2 1/2 inches in a 24-hour period can be expected about once a year. Snowfalls of 3 inches or more occur on an average of two or three times in the winter.

Local levees and/or channel improvements now protect some formerly flood-prone areas.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 20 and the average last occurrence in the spring is April 22.

STATION LOCATION

INDIANAPOLIS, INDIANA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUCOMPTCHIBO	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND											
							G	W	E	P	S	T	R	W	8			
CITY																		
Blackfords Block, SE Corner Washington and Meridan Streets	2/04/71	4/30/81		39°46'	86°10'			91	47	47			74					
Saks Building, SW Corner Washington and Penn	4/30/81	9/01/96	1 block E	39°46'	86°10'			90	52	52			74					Thermometers raised to 75 feet 5/1/85 (from window to roof).
Majestic Building, NE Corner Pennsylvania and Maryland Streets	9/01/96	7/01/15	1 block SSE	39°46'	86°10'			710	167	154	154		146					
Consolidated Building 115 N. Pennsylvania St.	7/01/15	10/28/38	2-1/2 blocks N	39°46'	86°10'			715	232	194	194		188					
Federal Building	10/28/38	10/01/54	1-1/2 blocks NNW	39°46'	86°10'			718	131	98	98		a96	96				a - This gage moved to Airport 1/1/43.
AIRPORT																		
Airport Admn. Building Weir Cook Municipal AP 6.7 miles WSW of P.O.	4/01/31	5/01/41		39°44'	86°16'			793	52	A5	A5			B4				A - 46' to 10/19/37. B - 33' to 10/19/37.
Roscoe Turner Hangar Building, Weir Cook Municipal	5/01/41	6/14/65	500 ft. S	39°44'	86°16'			e792	c20	5	5		a29	4	4	d5		a - Installed 1/1/43. c - 54' to 64' prior to installation on field site 11/9/59. d - Telepsychrometer (6') 12/24/54-9/1/59. Hygro. comm. 9/1/59 15' West of telepsychrometer site. e - 793' to 12/21/62.
Bldg. #1, Weir Cook ++ Municipal Airport + + International Airport effective 7/23/76. ++ Main Terminal/Admin. Bldg. effective 9/28/77.	6/14/65	Present	2600 ft. NW	39°44'	86°17'			792	20	5	5	NA	28	5	1	5	NA	f - Station moved 0.6 mile SE within airport 9/28/77. g - Not moved 9/28/77. h - Commissioned 9/28/77. i - Type change 9/24/85. j - Moved about 67' S 6/27/86. k - Moved about 83' S 6/27/86. l - Moved about 60' S 6/27/86.
				39°L42'	86°16'			792	g20	f5 k5	f5 k5	g9 i7	f4 i4	f5 j4	f4 j4	g5 h5	NA	S ASOS Commissioned 01/01/96 L - corrected 01/07/98

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (704) 271-4800

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