

2002

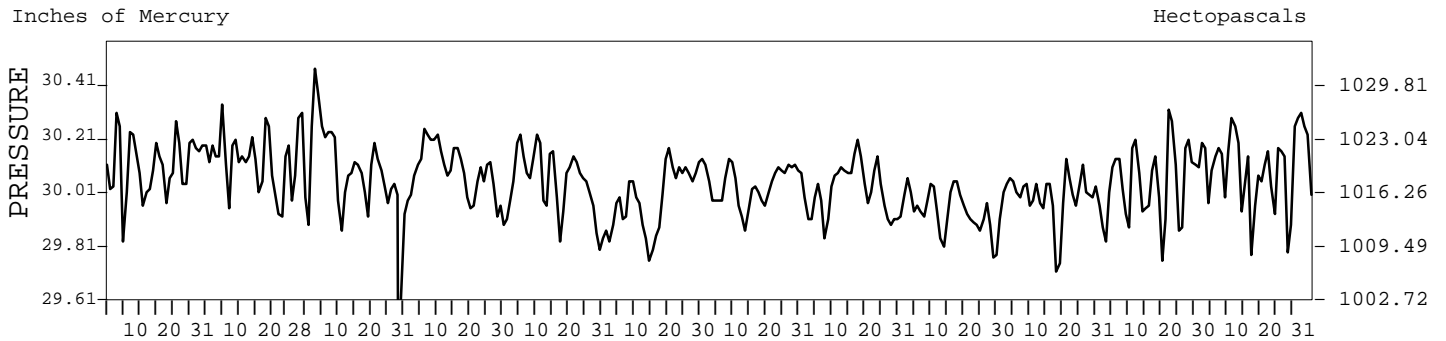
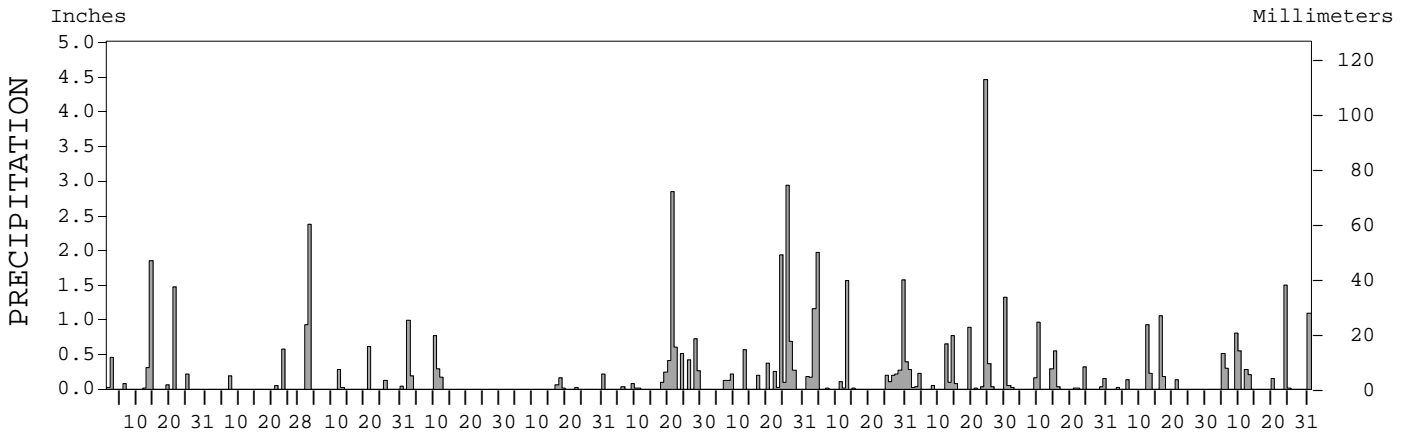
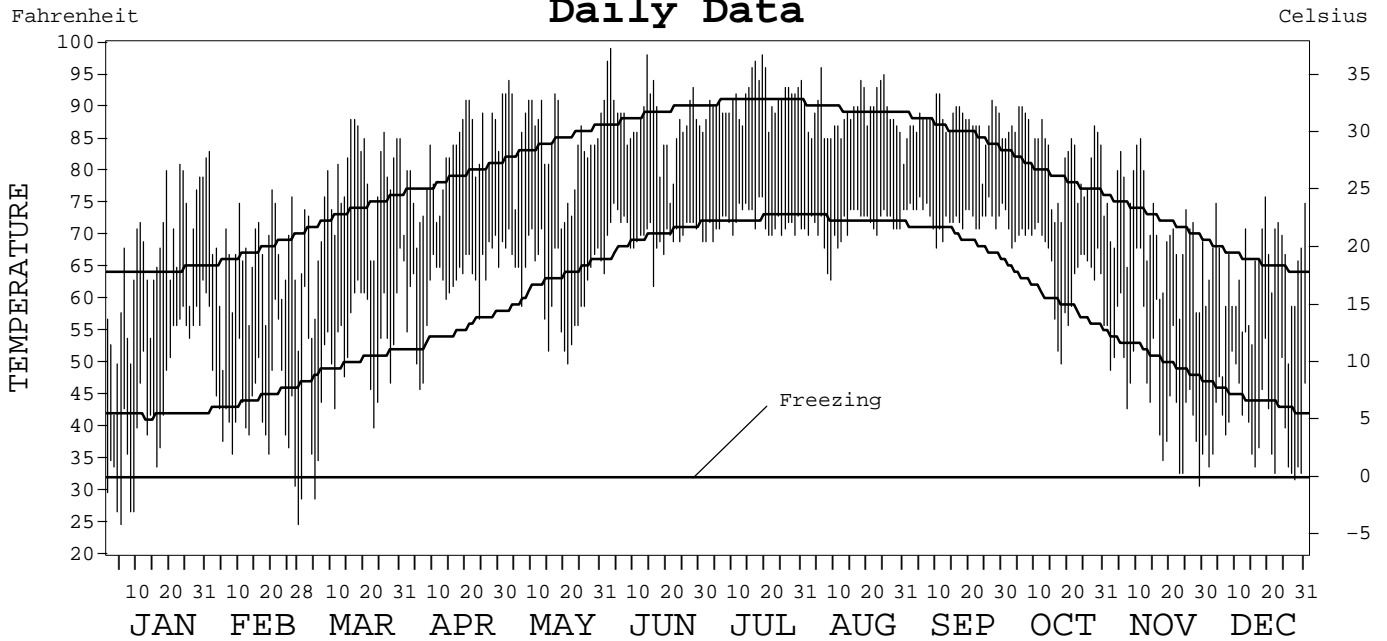
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1242

JACKSONVILLE, FLORIDA (JAX)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2002

JACKSONVILLE, FL (JAX)

LATITUDE: 30° 29' 40" N LONGITUDE: 81° 41' 36" W ELEVATION (FT): GRND: 31 BARO: 34 TIME ZONE: EASTERN (UTC + 5) WBAN: 13889

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	66.3	66.4	76.3	80.8	84.7	88.1	91.3	88.8	87.6	82.4	70.9	64.1	79.0	
	HIGHEST DAILY MAXIMUM	82	83	88	91	94	99	98	96	92	90	85	76	99	
	DATE OF OCCURRENCE	31	01	17+	21+	03	03	19	06	11+	06+	11	19	JUN 03	
	MEAN DAILY MINIMUM	44.9	43.7	51.4	62.1	62.8	70.2	71.9	71.2	72.8	65.4	47.6	41.2	58.8	
	LOWEST DAILY MINIMUM	25	25	29	46	50	62	69	63	68	50	31	32	25	
	DATE OF OCCURRENCE	05	28	01	06	21	16	04+	09	10	18	29	28	FEB 28	
	AVERAGE DRY BULB	55.6	55.1	63.9	71.5	73.8	79.2	81.6	80.0	80.2	73.9	59.3	52.7	68.9	
	MEAN WET BULB	52.2	50.4		66.0	66.9	73.0	74.7	74.1	74.9	69.0	54.7	48.7		
	MEAN DEW POINT	49.4	45.8		62.8	63.2	70.5	72.4	71.8	72.8	66.9	51.3	45.1		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	9	11	22	13	6	2	0	0	0	65
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	5	2	2	0	0	0	0	0	0	0	1	1	1	11
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	311	283	126	17	9	0	0	0	0	5	206	376	1333	
	COOLING DEGREE DAYS	29	9	97	217	289	433	523	475	464	289	42	0	2867	
RH	MEAN (PERCENT)	84	75	75	77	73	79	79	81	83	84	79	80	79	
	HOUR 01 LST	95	86	89	91	89	91	93	92	93	95	90	91	91	
	HOUR 07 LST	95	88	92	90	87	91	92	93	94	95	91	90	92	
	HOUR 13 LST	66	55	54	59	53	60	58	65	67	64	58	60	60	
	HOUR 19 LST	86	74	72	75	67	76	79	78	84	86	83	83	79	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	5	5	2	1	2	0	2	4	6	1	8	43	
	THUNDERSTORMS	1	0	3	3	3	10	16	18	6	1	1	2	64	
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.)	30.10	30.11		30.07	30.03	29.98	30.02	30.00	29.93	29.98	30.05	30.09		
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.15		30.11	30.06	30.01	30.06	30.04	29.96	30.01	30.09	30.12		
WINDS	RESULTANT SPEED (MPH)	0.5	2.2		0.5	3.2	1.1	1.3	1.3	0.5	1.9	2.1	2.1		
	RES. DIR. (TENS OF DEGS.)	20	33		16	07	19	22	17	10	02	28	30		
	MEAN SPEED (MPH)	6.3	6.9	7.1	7.0	7.9	6.2	5.1	5.3	7.0	5.0	5.5	6.3	6.3	
	PREVAIL. DIR. (TENS OF DEGS.)	29	30	16	26	06	08	25	06	08	01	32	28	26	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	33	28	32	31	28	24	32	35	25	20	28	36	36	
	DIR. (TENS OF DEGS.)	25	27	26	25	06	07	28	26	26	04	26	26	26	
	DATE OF OCCURRENCE	06	27	21	02	22	08	24	26	15	21+	30	31	DEC 31	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	40	33	43	44	35	28	45	39	30	23	33	45	45	
DIR. (TENS OF DEGS.)	25	28	26	25	04	08	06	26	25	04	26	26	26		
DATE OF OCCURRENCE	06	27	21	02	22	08	20	26	15+	21+	30	31	DEC 31		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.48	0.82	4.38	2.41	0.47	6.24	7.80	8.14	9.31	2.58	2.68	5.41	54.72	
	GREATEST 24-HOUR (IN.)	1.85	0.58	2.38	1.18	0.22	2.87	2.94	2.26	4.68	1.12	1.22	1.51	4.68	
	DATE OF OCCURRENCE	14	23	03	02-03	31	21-22	26	03-04	24-25	09-10	16-17	24-25	SEP 24-25	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	9	3	7	5	5	13	13	16	16	12	7	10	116	
PRECIPITATION ≥ 0.10	5	2	5	5	2	9	12	13	9	6	6	9	83		
PRECIPITATION ≥ 1.00	2	0	1	0	0	1	2	4	2	0	1	2	15		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

JACKSONVILLE, FL (JAX)

LATITUDE: 30° 29' 40" N LONGITUDE: 81° 41' 36" W ELEVATION (FT): GRND: 31 BARO: 34 TIME ZONE: EASTERN (UTC + 5) WBAN: 13889

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	64.2	67.3	73.4	78.6	84.3	88.7	90.8	89.4	86.1	79.1	72.5	65.8	78.3
	MEAN DAILY MAXIMUM	55	65.0	68.0	73.6	79.8	85.9	89.9	92.1	90.9	87.2	80.1	73.0	66.7	79.3
	HIGHEST DAILY MAXIMUM	61	85	88	91	95	100	103	105	102	100	96	88	84	105
	YEAR OF OCCURRENCE		1947	1962	1974	1968	1967	1998	1942	1999	1944	1951	1986	1994	JUL 1942
	MEAN OF EXTREME MAXS.	55	79.5	82.3	86.3	90.0	94.1	96.9	97.8	96.7	94.0	89.4	83.7	80.4	89.3
	NORMAL DAILY MINIMUM	30	41.9	44.3	49.8	54.6	62.5	69.4	72.4	72.2	69.4	59.7	50.8	44.1	57.6
	MEAN DAILY MINIMUM	55	42.7	45.4	50.4	56.4	63.8	70.3	72.9	72.7	70.1	60.6	50.9	44.5	58.4
	LOWEST DAILY MINIMUM	61	7	19	23	34	45	47	61	59	48	36	21	11	7
	YEAR OF OCCURRENCE		1985	1996	1980	1987	1992	1984	1972	2000	1981	1989	1970	1983	JAN 1985
	MEAN OF EXTREME MINS.	55	25.3	28.5	33.3	41.8	51.8	61.5	67.9	67.5	61.3	44.5	33.2	27.3	45.3
	NORMAL DRY BULB	30	52.4	55.2	61.1	67.0	73.4	79.1	81.6	81.2	78.1	69.8	61.9	55.1	68.0
	MEAN DRY BULB	55	53.9	56.7	62.0	68.1	74.7	80.1	82.5	81.8	78.6	70.4	61.9	55.6	68.9
	MEAN WET BULB	19	49.3	52.1	55.8	60.5	67.2	72.9	75.2	75.1	72.8	65.2	58.1	51.2	63.0
	MEAN DEW POINT	19	45.0	47.6	50.9	55.8	63.2	70.2	72.8	72.9	70.7	62.7	55.0	47.6	59.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.1	1.6	6.4	15.2	22.7	20.5	9.9	1.6	0.0	0.0	78.0	
MAXIMUM ≤ 32°	30	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.0	
MINIMUM ≤ 32°	30	6.9	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.6	17.4	
MINIMUM ≤ 0°	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	374	272	155	55	5	0	0	0	0	30	148	315	1354
	NORMAL COOLING DEG. DAYS	30	15	21	58	116	277	437	530	506	400	182	64	21	2627
RH	NORMAL (PERCENT)	30	75	72	71	70	73	77	78	80	81	79	78	77	76
	HOUR 01 LST	30	84	83	84	84	86	88	89	91	91	89	88	86	87
	HOUR 07 LST	30	86	86	88	88	88	89	90	92	93	91	90	88	89
	HOUR 13 LST	30	58	54	51	48	52	58	60	62	63	59	57	58	57
	HOUR 19 LST	30	74	69	66	63	67	73	74	79	81	80	80	78	74
S	PERCENT POSSIBLE SUNSHINE	49	59	62	68	73	71	65	65	64	58	60	60	54	63
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	58	5.5	3.7	3.2	2.7	2.8	1.3	1.0	1.7	1.9	3.3	5.4	6.0	38.5
	THUNDERSTORMS	61	1.1	1.7	3.1	3.6	6.1	11.6	15.8	13.3	7.0	2.1	0.9	1.1	67.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	47	4.9	4.7	4.6	4.2	4.4	5.0	4.9	4.9	5.1	4.5	4.3	4.8	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.6	4.5	4.1	3.6	4.0	4.5	4.5	4.5	4.3	4.0	4.0	4.3	4.2
	MEAN NO. DAYS WITH:														
	CLEAR	48	9.0	8.6	9.0	10.3	9.0	5.1	4.7	4.9	5.3	9.5	10.0	8.7	94.1
PARTLY CLOUDY	48	8.0	7.2	9.3	10.2	12.1	13.1	14.5	15.0	11.7	9.3	8.7	8.2	127.3	
CLOUDY	48	14.1	12.4	12.7	9.5	9.9	11.7	11.8	11.1	13.0	12.2	11.4	14.1	143.9	
PR	MEAN STATION PRESSURE (IN)	30	30.10	30.09	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.10	30.09	30.03
	MEAN SEA-LEVEL PRES. (IN)	19	30.14	30.12	30.06	30.04	30.01	30.02	30.06	30.02	30.01	30.06	30.11	30.16	30.07
WINDS	MEAN SPEED (MPH)	51	8.1	8.7	9.1	8.5	7.9	7.6	7.0	6.7	7.5	7.7	7.5	7.6	7.8
	PREVAIL. DIR (TENS OF DEGS)	35	30	31	24	24	13	24	24	23	06	05	36	36	24
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	6	34	34	35	43	33	38	57	35	36	28	28	37	57
	DIR. (TENS OF DEGS)		26	14	12	34	29	26	26	26	24	08	26	35	26
	YEAR OF OCCURRENCE		1999	1998	2001	1997	1999	2001	1998	2002	2001	2001	2002	1997	JUL 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	6	47	47	43	52	41	53	77	48	46	35	33	62	77	
DIR. (TENS OF DEGS)		25	28	26	34	30	03	26	32	03	05	26	33	26	
YEAR OF OCCURRENCE		1999	1998	2002	1997	1999	1998	1998	2000	1999	2000	2002	1997	JUL 1998	
PRECIPITATION	NORMAL (IN)	30	3.69	3.15	3.93	3.14	3.48	5.37	5.97	6.87	7.90	3.86	2.34	2.64	52.34
	MAXIMUM MONTHLY (IN)	61	10.20	11.12	10.18	11.61	10.43	13.96	16.21	16.24	19.36	13.44	7.85	9.77	19.36
	YEAR OF OCCURRENCE		1991	1998	1973	1973	1966	1994	1960	1968	1949	1956	1947	1997	SEP 1949
	MINIMUM MONTHLY (IN)	61	0.06	0.52	0.18	0.14	0.18	1.59	1.97	1.92	1.02	0.16	0.04	0.00	0.00
	YEAR OF OCCURRENCE		1950	1962	1945	1987	1990	1990	1977	1942	1961	1942	1956	NOV	
	MAXIMUM IN 24 HOURS (IN)	61	3.02	6.22	7.12	8.25	5.40	5.93	10.09	7.93	10.17	7.90	5.44	3.75	10.17
	YEAR OF OCCURRENCE		1963	1970	1970	1973	1975	1968	1966	1968	1950	1992	1969	1983	SEP 1950
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	8.6	8.0	7.7	6.4	8.1	12.6	14.1	14.5	12.0	8.4	6.4	7.7	114.5	
PRECIPITATION ≥ 1.00	30	0.9	1.3	1.1	0.8	0.8	1.4	1.6	2.4	2.2	0.9	0.7	0.8	14.9	
SNOWFALL	NORMAL (IN)	30	0.*	0.*	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.0
	MAXIMUM MONTHLY (IN)	60	T	1.5	0.5	T	0.0	T	T	0.0	0.0	0.0	0.0	0.8	1.5
	YEAR OF OCCURRENCE		1985	1958	1986	1997		1996	1990					1989	FEB 1958
	MAXIMUM IN 24 HOURS (IN)	60	T	1.5	0.5	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.8	1.5
	YEAR OF OCCURRENCE		1985	1958	1986	1997		1996	1990					1989	FEB 1958
	MAXIMUM SNOW DEPTH (IN)	53	0	0	0	0	0	0	0	0	0	0	0	1	1
	YEAR OF OCCURRENCE													1989	DEC 1989
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PRECIPITATION (inches) 2002 JACKSONVILLE, FL (JAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	4.64	5.07	10.18	11.61	5.33	4.10	5.45	7.49	7.86	4.08	0.44	4.32	70.57
1974	0.28	1.28	3.47	1.53	4.14	5.53	9.83	11.23	8.13	0.34	1.03	1.73	48.52
1975	3.48	2.58	2.46	5.78	7.00	5.21	6.36	6.23	5.24	3.63	0.39	1.79	50.15
1976	2.29	1.05	3.41	0.63	10.02	4.26	5.41	6.37	8.56	1.63	2.43	4.81	50.87
1977	2.96	3.24	1.03	1.76	3.07	2.65	1.97	7.26	7.45	1.68	3.11	3.38	39.56
1978	4.64	4.17	2.83	2.24	9.18	2.62	6.67	2.39	4.40	1.26	0.80	1.84	43.04
1979	6.28	3.75	1.00	4.18	7.54	5.91	4.67	4.78	17.75	0.25	3.64	2.01	61.76
1980	2.61	1.06	6.83	3.91	3.02	4.59	5.29	3.97	3.03	2.69	2.32	0.21	39.53
1981	0.92	4.53	5.41	0.32	1.48	3.31	2.46	6.47	1.22	1.35	4.92	3.38	35.77
1982	3.00	1.67	4.26	3.60	3.55	8.06	3.81	6.93	9.32	3.37	1.93	2.02	51.52
1983	7.19	4.27	8.46	4.65	1.38	6.86	6.11	4.63	4.61	4.29	3.32	6.42	62.19
1984	2.13	4.67	5.77	3.14	1.46	4.76	6.01	3.78	12.28	1.53	3.30	0.13	48.96
1985	1.05	1.45	1.26	2.76	2.08	3.71	6.33	8.93	16.82	8.34	2.07	3.59	58.39
1986	4.19	4.72	5.44	0.93	2.13	2.53	3.27	9.60	1.99	1.80	2.85	4.65	44.10
1987	4.09	6.47	6.27	0.14	0.75	4.18	4.40	4.48	7.13	0.30	5.02	0.16	43.39
1988	6.36	6.08	2.65	3.44	1.35	3.71	4.50	8.48	16.36	2.35	4.27	1.13	60.68
1989	1.73	1.77	2.14	2.79	1.55	3.66	8.98	9.16	14.37	1.39	0.51	3.40	51.45
1990	1.84	4.07	1.59	1.34	0.18	1.59	6.53	3.81	2.60	4.54	1.17	1.94	31.20
1991	10.20	1.52	7.33	6.31	9.35	11.70	15.90	3.48	6.20	6.36	0.71	0.57	79.63
1992	5.79	2.64	4.09	5.33	5.97	7.04	3.32	10.76	7.33	8.34	1.92	0.65	63.18
1993	3.86	2.89	5.98	0.85	1.60	2.52	7.54	2.96	7.60	8.84	3.58	1.90	50.12
1994	6.58	0.92	2.14	1.51	3.15	13.96	8.26	3.29	9.79	10.23	3.49	3.94	67.26
1995	1.91	2.07	3.67	1.77	1.77	5.35	9.45	9.93	5.41	3.53	3.20	2.19	50.25
1996	1.11	1.11	6.83	2.85	0.72	11.41	4.20	7.83	8.49	11.46	1.39	3.23	60.63
1997	2.91	1.28	1.84	4.56	3.43	6.33	7.69	8.24	3.97	4.84	2.41	9.77	57.27
1998	3.49	11.12	2.64	4.71	0.96	2.95	7.29	10.09	7.65	3.01	2.39	0.42	56.72
1999	4.49	1.70	0.40	1.92	1.02	7.75	3.56	3.51	13.00	3.24	0.83	0.88	42.30
2000	2.77	1.17	1.79	2.60	1.15	2.43	5.69	7.38	11.64	0.23	1.55	1.37	39.77
2001	0.91	0.68	5.48	0.62	2.56	5.59	8.31	3.58	16.03	0.81	1.44	3.13	49.14
2002	4.48	0.82	4.38	2.41	0.47	6.24	7.80	8.14	9.31	2.58	2.68	5.41	54.72
POR= 131 YRS	2.97	3.16	3.45	2.80	3.71	5.86	6.70	6.64	7.36	4.38	2.00	2.76	51.79

WBAN : 13889

AVERAGE TEMPERATURE (°F) 2002 JACKSONVILLE, FL (JAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	54.2	53.1	66.0	65.5	73.5	79.8	81.9	80.5	79.3	71.1	64.7	53.9	68.6
1974	66.7	55.5	65.2	66.1	74.3	77.5	79.0	79.9	78.2	66.2	60.3	55.0	68.7
1975	58.6	60.9	60.5	66.4	75.5	80.9	80.0	81.2	78.4	72.2	62.2	52.7	69.1
1976	48.7	58.0	65.0	65.3	71.4	76.4	81.8	79.7	76.8	64.7	54.3	52.8	66.2
1977	44.0	50.0	65.0	67.1	73.0	81.3	82.7	81.9	80.1	66.1	62.5	53.3	67.3
1978	48.6	47.5	58.7	68.3	74.8	79.5	81.8	80.8	77.8	67.8	64.6	55.1	67.1
1979	47.9	52.0	60.8	68.6	73.0	77.1	82.0	80.4	79.3	69.3	62.0	54.3	67.2
1980	53.3	51.2	62.4	68.1	75.2	80.2	83.7	83.1	80.9	68.5	61.3	52.7	68.4
1981	46.5	55.4	59.1	70.4	72.5	83.3	84.4	80.8	76.0	69.7	59.9	53.9	67.7
1982	53.9	61.4	65.4	68.2	73.1	81.6	82.6	82.1	77.6	69.0	64.5	59.2	69.9
1983	49.0	52.8	57.9	62.7	72.3	76.5	82.5	82.2	76.4	71.5	60.1	52.4	66.4
1984	50.4	56.0	60.8	66.6	73.2	77.5	79.6	80.3	75.4	72.5	58.2	61.6	67.7
1985	48.2	56.4	64.0	67.3	75.5	80.7	81.1	81.2	77.7	75.3	69.5	51.9	69.1
1986	51.5	59.3	60.7	66.0	73.3	81.3	83.8	81.5	79.7	72.0	68.7	57.3	69.6
1987	51.9	54.4	60.0	64.0	73.2	80.4	82.6	83.9	79.2	63.9	62.3	57.5	67.8
1988	48.7	52.3	59.8	67.8	71.4	78.4	81.6	82.8	79.4	66.8	64.7	54.4	67.3
1989	60.6	58.6	65.4	67.3	73.7	80.8	82.5	82.2	79.5	70.6	62.4	47.7	69.3
1990	58.3	63.1	65.1	66.8	75.3	80.9	83.5	82.8	79.5	72.7	63.4	60.8	71.0
1991	56.3	58.6	64.8	72.3	79.3	80.0	83.8	83.1	79.3	70.9	58.9	57.6	70.4
1992	52.6	58.5	60.7	65.0	72.1	81.1	84.3	82.3	78.9	68.6	64.0	56.4	68.7
1993	59.1	53.3	60.2	63.5	72.8	80.6	84.1	81.9	79.6	69.8	61.7	51.4	68.2
1994	51.5	60.1	63.3	69.5	73.6	80.8	82.2	80.8	77.0	70.8	66.4	58.4	69.5
1995	52.9	55.1	63.1	68.1	76.4	79.2	82.8	81.5	77.6	72.9	57.8	53.0	68.4
1996	52.5	56.5	57.4	65.5	75.7	78.6	82.5	79.2	77.4	69.9	59.7	55.4	67.5
1997	54.5	60.1	67.6	65.5	72.3	76.9	81.9	80.4	78.6	69.1	59.4	54.7	68.4
1998	56.7	57.6	58.8	67.7	76.6	84.0	83.3	81.5	78.8	72.1	66.7	59.8	70.3
1999	56.5	58.4	58.4	70.8	72.1	77.9	82.6	82.7	76.6	70.6	62.2	54.3	68.6
2000	53.8	56.3	63.7	64.5	75.5	79.0	81.4	81.2	77.7	67.5	58.9	49.7	67.4
2001	50.0	60.3	60.2	67.0	73.7	79.3	81.4	81.1	75.3	67.7	64.9	59.7	68.4
2002	55.6	55.1	63.9	71.5	73.8	79.2	81.6	80.0	80.2	73.9	59.3	52.7	68.9
POR= 131 YRS	54.4	56.4	61.8	67.4	73.7	78.7	80.7	80.3	77.3	69.0	60.9	54.9	68.0

HEATING DEGREE DAYS (base 65°F) 2002 JACKSONVILLE, FL (JAX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	0	26	82	357	31	287	82	68	0	0	933
1974-75	0	0	0	38	181	321	223	153	193	59	0	0	1168
1975-76	0	0	0	11	176	373	498	210	79	43	9	0	1399
1976-77	0	0	0	87	327	376	643	414	102	46	0	0	1995
1977-78	0	0	0	70	135	366	508	484	221	22	1	0	1807
1978-79	0	0	0	46	68	324	525	371	160	13	3	0	1510
1979-80	0	0	0	19	144	331	356	406	134	24	0	0	1414
1980-81	0	0	0	26	146	379	570	273	202	9	6	0	1611
1981-82	0	0	1	13	180	362	360	126	99	42	0	0	1183
1982-83	0	0	0	49	95	218	490	336	233	109	1	0	1531
1983-84	0	0	0	10	181	412	447	262	172	57	9	1	1551
1984-85	0	0	0	5	235	122	530	269	95	47	0	0	1303
1985-86	0	0	0	2	36	420	411	185	184	53	7	0	1298
1986-87	0	0	0	24	41	249	401	293	189	101	0	0	1298
1987-88	0	0	0	80	147	256	507	374	176	50	7	0	1597
1988-89	0	0	0	34	79	332	157	231	111	63	5	0	1012
1989-90	0	0	0	47	133	531	221	117	70	49	1	0	1169
1990-91	0	0	0	29	96	191	285	199	100	10	0	0	910
1991-92	0	0	0	9	221	261	384	207	165	86	16	0	1349
1992-93	0	0	0	19	147	277	209	323	185	95	1	0	1256
1993-94	0	0	0	14	150	414	417	174	120	21	3	0	1313
1994-95	0	0	0	12	57	232	369	289	103	40	0	0	1102
1995-96	0	0	0	22	249	371	393	271	267	79	6	0	1658
1996-97	0	0	0	19	186	302	333	176	43	69	7	0	1135
1997-98	0	0	0	33	189	324	275	217	228	39	0	0	1305
1998-99	0	0	0	11	44	197	272	199	204	40	11	0	978
1999-00	0	0	0	34	112	331	346	255	81	69	1	0	1229
2000-01	0	0	0	29	221	476	466	170	189	52	0	0	1603
2001-02	0	0	1	64	63	208	311	283	126	17	9	0	1082
2002-	0	0	0	5	206	376							

WBAN : 13889

COOLING DEGREE DAYS (base 65°F) 2002 JACKSONVILLE, FL (JAX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	23	0	105	73	278	451	533	488	434	221	80	18	2704
1974	92	29	97	108	295	383	441	467	399	84	47	18	2460
1975	31	42	59	109	334	482	474	508	406	238	99	2	2784
1976	0	16	85	60	213	350	528	462	360	85	13	7	2179
1977	0	1	107	115	255	499	559	531	462	110	68	10	2717
1978	5	0	31	131	311	441	527	497	390	140	62	24	2559
1979	1	13	36	131	259	369	532	484	436	158	61	3	2483
1980	1	15	63	122	322	466	585	568	483	143	41	3	2812
1981	0	6	23	177	245	557	608	497	336	164	33	21	2667
1982	22	32	117	144	257	505	552	535	385	179	84	46	2858
1983	0	0	18	46	236	352	549	541	349	220	38	26	2375
1984	0	8	51	111	271	383	459	481	318	245	39	22	2388
1985	19	35	70	122	332	479	503	506	388	330	177	21	2982
1986	0	31	57	89	272	497	587	520	448	245	158	20	2924
1987	1	0	38	75	261	469	551	589	430	54	73	33	2574
1988	7	10	26	142	210	411	523	557	442	95	77	13	2513
1989	27	58	127	141	281	482	549	541	441	229	59	1	2936
1990	21	66	81	109	327	484	581	557	443	276	56	67	3068
1991	22	25	99	236	453	456	590	568	433	201	43	40	3166
1992	5	27	40	93	243	491	605	542	425	137	124	18	2750
1993	37	0	43	57	252	477	600	534	445	169	55	1	2670
1994	3	44	73	158	279	484	539	501	367	198	105	34	2785
1995	2	19	51	138	356	434	557	521	386	274	39	6	2783
1996	12	32	38	101	344	416	549	445	381	179	32	11	2540
1997	15	45	131	90	236	365	531	485	415	164	30	12	2519
1998	25	15	42	125	368	579	572	515	423	238	102	45	3049
1999	16	23	6	221	236	392	552	556	356	213	36	4	2611
2000	4	7	48	60	335	426	515	508	389	110	46	8	2456
2001	5	45	48	119	274	435	514	509	319	154	65	50	2537
2002	29	9	97	217	289	433	523	475	464	289	42	0	2867

SNOWFALL (inches) 2002 JACKSONVILLE, FL (JAX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1989-90	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
1990-91	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995-96	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T	T
1996-97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-													
POR= 59 YRS	T	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	T

WBAN : 13889

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 JACKSONVILLE, FLORIDA (JAX)

Jacksonville, a very large metropolitan area covering 840 square miles, extends from the Atlantic Ocean to about 40 miles inland. Downtown Jacksonville is located some 16 miles inland on the St. Johns River. The surrounding terrain is level. Easterly winds blowing about 40 percent of the time produce a maritime influence that modifies to some extent the heat of summer and the cold of winter. Summers are long, warm and relatively humid. Winters, although punctuated with periodic invasions of cool to occasionally cold air from the north, are mild because of the southern latitude and the proximity to the warm Atlantic Ocean waters. Because of the nearness to the ocean, climatic features across the city vary. For example, during the summer months temperatures at Jacksonville International Airport, located 17 miles inland, usually reach into the low and mid-90s before being tempered by sea breezes. Temperatures along the beaches rarely exceed 90 degrees. Summer thunderstorms usually occur before the noon hour along the beaches, while afternoon thunderstorms are the rule inland.

The annual temperature for Jacksonville is between 68 and 69 degrees. June, July, and August are the hottest months, with temperatures averaging near 80 degrees. December, January, and February are the coolest months, with temperatures near the middle 50s. Temperatures exceed 95 degrees only about ten times a year. Night temperatures in summer are usually comfortable, rarely failing to drop below 80 degrees.

The greatest rainfall, mostly in the form of local thundershowers, occurs during the summer months when a measurable amount can be expected one day in two. Rainfall of 1 inch or more in 24 hours normally occurs about fourteen times a year, and very infrequently heavy rains, associated with tropical storms, reach amounts of several inches with durations of more than 24 hours.

The atmosphere is moist, with an average relative humidity of about 75 percent, ranging from about 90 percent in early morning hours to about 55 percent during the afternoon.

Prevailing winds are northeasterly in the fall and winter months, and southwesterly in spring and summer. Wind movement, which averages slightly less than 9 mph, is 2 to 3 mph higher in the early afternoon than the early morning hours, and slightly higher in spring than in other seasons of the year. Although this area is in the Hurricane Belt, this section of the coast has been very fortunate in escaping hurricane-force winds. Most hurricanes reaching this latitude have tended to move parallel to the coastline, keeping well out to sea. Others have lost much of their force moving over land before reaching this area.

STATION LOCATION

JACKSONVILLE, FLORIDA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE	REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND												
							GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER				
*NOTES:																			
<u>AIRPORT</u>																			
Jacksonville Municipal (Imeson)	10/31/30	10/17/41	NA	30°25'	81°39'	28	38	5	5							4		Synoptic station since 7/1/40.	
Jacksonville Municipal (Imeson)++	10/17/41	1/19/71	1000 ft. S	30°25'	81°39'	p24	h21	6 q18	5 q18	j Unk	i3 k15	3 k15	m5 m					h. Direct reading instruments installed on field 10/9/61; recording instruments remained at 63 feet, the elevation of all wind instruments prior to 10/9/61. i. Installed 2/6/50. j. Installed 11/1/50. Height unknown. k. Moved to roof 12/11/58. m. Telepsychrometer (5') 10/17/41-11/21/57; moved app. 200' NW (4') 11/21/57-12/31/65. Hygro. commissioned 1000' E of tele. site 12/31/65. n. Hygrothermometer decommissioned 2/25/69. p. At 20' 12/31/65-2/25/69. q. New instruments installed 1000' W of hygrothermometer site 2/25/69.	
Weather Service Bldg. International Airport	1/19/71	03/01/96	5 mi. NW	30°30'	81°42'	26	20	5	5	16	4	NA r4	4	3 t5 u5	NA			r. Installed with other gages 5/1/80. t. Relocated 10/8/82. u. Type change 9/25/85.	
International Airport	03/01/96	Present	NA	30°30'	81°42'	v31										S		ASOS Commissioned 03/01/96 v. Ground elevation.	

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* NOTES: For earlier station history see previous editions.