

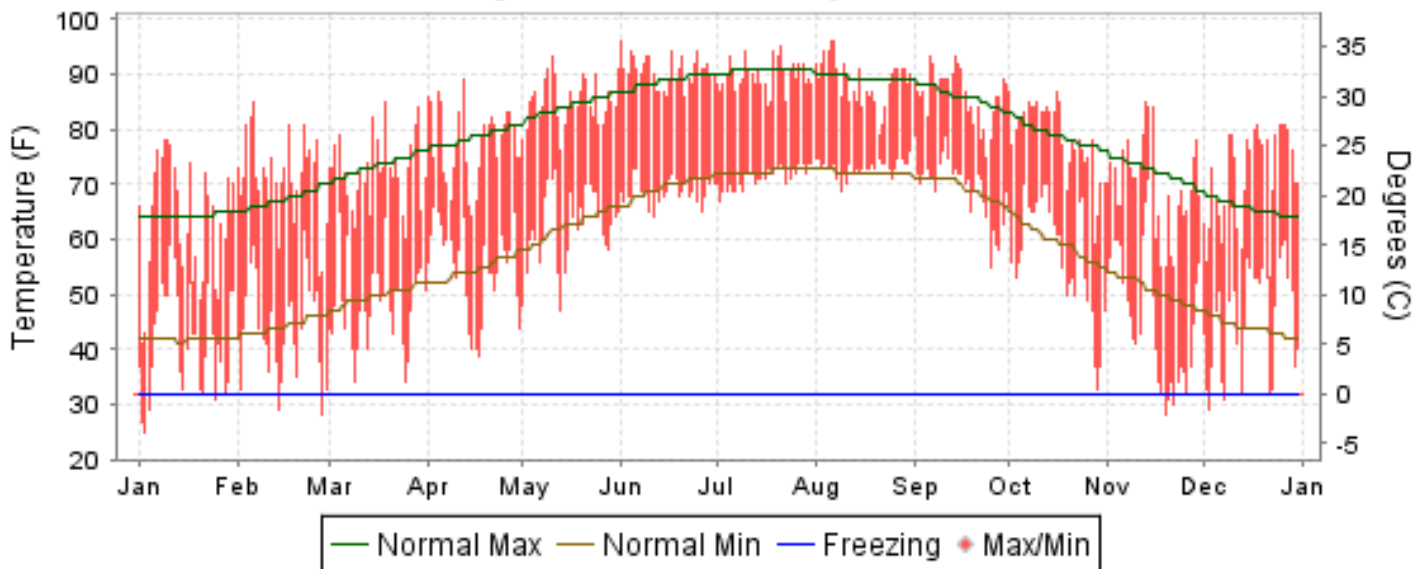


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

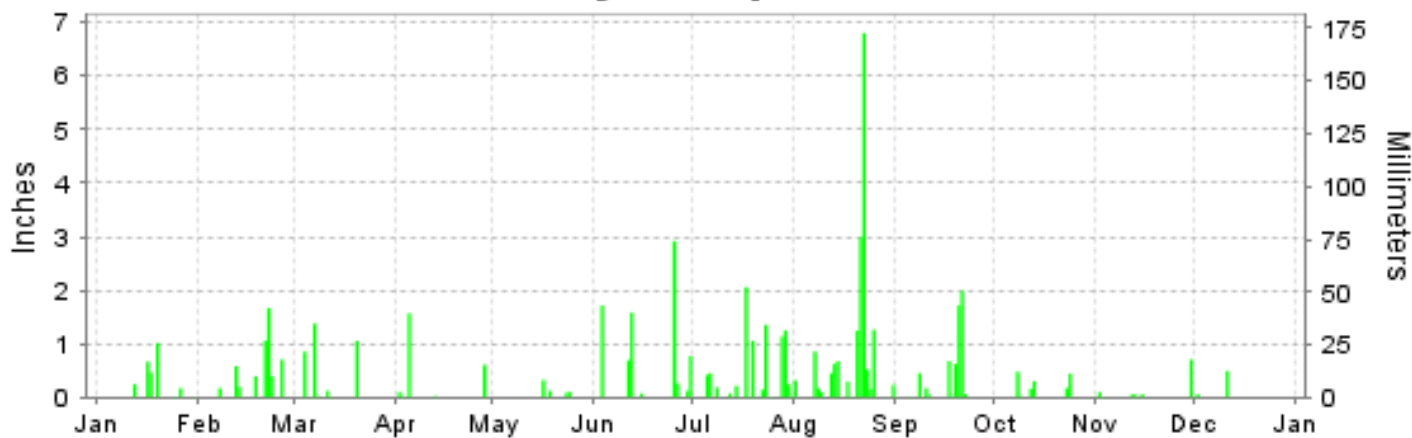
ISSN 0198-1242

## JACKSONVILLE, FLORIDA (KJAX)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## JACKSONVILLE (KJAX)

LATITUDE: 30 ° 29'N      LONGITUDE: -81 ° 41'W      ELEVATION (FT): GRND: 26    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	63.4	71.2	72.4	77.6	85.1	90.6	89.6	88.8	86.2	78.5	69.7	71.6	78.7	
	HIGHEST DAILY MAXIMUM	78	85	85	89	93	96	95	96	93	87	85	81	96	
	DATE OF OCCURRENCE	10+	06	19	12	10	01	21	07+	14+	16+	13	27+	AUG 07+	
	MEAN DAILY MINIMUM	41.6	44.0	47.8	54.7	62.3	68.9	71.4	73.2	69.5	57.4	45.7	46.3	56.9	
	LOWEST DAILY MINIMUM	25	28	34	39	47	64	67	69	55	33	28	29	25	
	DATE OF OCCURRENCE	03	28	25+	17	13	11	02	09	25	29	19	03	JAN 03	
	AVERAGE DRY BULB	52.5	57.6	60.1	66.2	73.7	79.8	80.5	81.0	77.9	68.0	57.7	59.0	67.8	
	MEAN WET BULB	48.6	52.2	54.8	59.7	66.4	72.2	74.0	74.8	71.5	61.8	52.1	53.4	61.8	
	MEAN DEW POINT	44.3	47.1	50.0	55.1	62.0	69.3	71.7	72.5	68.6	58.1	47.6	49.3	58.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	6	21	15	16	6	0	0	0	0	64
	MAXIMUM <= 32°	0	0	0	0	0	0	11	15	6	0	0	0	0	32
	MINIMUM <= 32°	6	2	0	0	0	0	0	0	0	0	5	4	17	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	384	226	172	57	5	0	0	0	0	65	247	213	1369	
	COOLING DEGREE DAYS	3	20	27	100	281	448	487	504	395	165	34	35	2499	
RH	MEAN (PERCENT)	77	74	73	72	70	76	81	81	77	75	74	76	76	
	HOUR 01 LST	85	89	91	89	85	91	93	91	90	88	87	87	89	
	HOUR 07 LST	88	88	83	81	76	79	86	87	86	85	86	88	84	
	HOUR 13 LST	59	47	49	51	49	58	65	62	58	55	51	54	55	
	HOUR 19 LST	83	78	76	75	71	79	82	85	81	80	82	81	79	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	3	1	2	2	3	4	3	3	2	2	5	36	
	THUNDERSTORMS	2	4	2	3	5	15	17	11	4	2	1	0	66	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	30.16	30.06	30.07	30.01	29.92	30.00	29.98	29.00	29.95	30.06	29.87	30.16	29.94	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.10	30.11	30.05	29.96	30.04	30.02	29.91	29.99	30.11	29.94	30.19	30.05	
WINDS	RESULTANT SPEED (MPH)	2.1	1.9	0.7	0.9	2.9	2.7	1.8	1.7	3.3	3.1	1.8	1.3	0.1	
	RES. DIR. (TENS OF DEGS.)	35	24	17	06	21	20	21	12	06	04	32	25	20	
	MEAN SPEED (MPH)	6.2	5.9	7.6	6.9	8.1	5.4	4.9	8.1	6.8	6.7	6.0	5.5	6.5	
	PREVAIL.DIR.(TENS OF DEGS.)	32	26	33	05	24	24	25	25	09	05	33	26	24	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	32	37	24	28	47	37	46	24	28	25	36	47	
	DIR. (TENS OF DEGS.)	33	28	25	30	23	01	29	05	04	08	29	27	01	
	DATE OF OCCURRENCE	02	26	08	12	11	25	23	21	23	23	15	11	JUN 25	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	36	40	47	32	44	60	51	66	31	35	30	49	66	
DIR. (TENS OF DEGS.)	33	27	25	25	24	01	28	36	05	08	22	31	36		
DATE OF OCCURRENCE	02	26	08	12	11	25	23	07	23	23	29	11	AUG 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.63	5.22	3.50	2.34	0.66	8.21	8.73	16.83	5.84	1.62	1.01	0.59	57.18	
	GREATEST 24-HOUR (IN.)	1.12	2.11	1.40	1.57	0.33	2.92	2.34	9.14	2.35	0.51	0.71	0.50	9.14	
	DATE OF OCCURRENCE	16-17	21-22	07-08	05	16	25	28-29	21-22	19-20	08-09	30	11	AUG 21-22	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	8	7	5	4	10	15	18	11	6	7	4	103	
PRECIPITATION 0.10	5	8	4	3	3	7	10	12	5	5	2	1	65		
PRECIPITATION 1.00	1	2	2	1	0	3	5	4	2	0	0	0	20		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0															

# NORMALS, MEANS, AND EXTREMES JACKSONVILLE (KJAX)

**LATITUDE:** 30 ° 29'N      **LONGITUDE:** -81 ° 41'W      **ELEVATION (FT):** GRND: 26    BARO: 34      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 13889**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	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	78.4
	MEAN DAILY MAXIMUM	61	65.1	68.0	73.7	79.7	85.9	89.7	91.9	90.8	87.1	80.1	73.0	66.7	79.3
	HIGHEST DAILY MAXIMUM	67	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	2004	JUL 1942
	MEAN OF EXTREME MAXS.	61	79.6	82.3	86.3	89.9	94.0	96.9	97.6	96.6	93.9	89.3	83.9	80.4	89.2
	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	61	42.6	45.2	50.4	56.1	63.6	70.0	72.8	72.7	70.1	60.7	50.7	44.4	58.3
	LOWEST DAILY MINIMUM	67	7	19	23	31	45	47	61	59	48	33	21	11	7
	YEAR OF OCCURRENCE		1985	1996	1980	2007	1992	1984	1972	2000	1981	2008	1970	1983	JAN 1985
	MEAN OF EXTREME MINS.	61	25.3	28.6	33.2	41.4	51.6	61.4	67.8	67.7	61.2	44.4	33.0	27.4	45.3
	NORMAL DRY BULB	30	53.1	55.8	61.6	66.6	73.4	79.1	81.6	80.8	77.8	69.4	61.7	55.0	68.0
	MEAN DRY BULB	61	53.9	56.6	62.1	68.0	74.8	79.9	82.4	81.8	78.6	70.4	61.9	55.5	68.8
	MEAN WET BULB	25	48.7	51.0	55.3	59.6	66.5	72.5	74.8	74.9	72.3	64.9	57.2	50.8	62.4
	MEAN DEW POINT	25	45.3	47.6	51.7	56.0	63.6	70.6	73.0	73.3	70.8	63.0	55.0	48.0	59.8
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	*	1.2	6.2	16.3	23.4	20.1	10.0	1.2	0.0	0.0	78.4
	MAXIMUM <= 32	30	*	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.1
MINIMUM <= 32	30	7.0	4.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	18.3	
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	
<b>H/C</b>	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
<b>RH</b>	NORMAL (PERCENT)	30	76	74	73	71	74	78	78	81	82	81	80	79	77
	HOURLY 01 LST	30	86	85	86	86	88	90	91	92	93	92	91	88	89
	HOURLY 07 LST	30	88	88	89	89	90	90	91	93	94	93	92	90	91
	HOURLY 13 LST	30	59	55	52	49	53	59	60	62	65	61	59	61	58
	HOURLY 19 LST	30	76	71	68	65	68	75	76	80	83	84	84	82	76
<b>S</b>	PERCENT POSSIBLE SUNSHINE	49	59	62	68	73	71	65	65	64	58	60	60	54	63
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	5.2	3.5	3.2	2.5	3.0	1.6	1.2	2.0	2.2	3.3	5.2	6.3	39.2
	THUNDERSTORMS	61	1.1	1.8	3.1	3.4	5.7	11.8	15.9	13.4	7.0	2.2	0.9	1.0	67.3
<b>CLOUDNESS</b>	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
<b>PR</b>	MEAN STATION PRESSURE(IN)	25	30.12	30.08	30.04	30.00	29.99	29.98	30.01	29.95	29.97	30.02	30.07	30.12	30.03
	MEAN SEA-LEVEL PRES. (IN)	25	30.15	30.12	30.07	30.03	30.02	30.01	30.04	30.02	30.00	30.05	30.10	30.15	30.06
<b>WINDS</b>	MEAN SPEED (MPH)	25	7.1	7.5	8.0	7.4	7.1	6.4	5.9	5.7	6.5	6.5	6.4	6.3	6.7
	PREVAIL.DIR(TENS OF DEGS)	41	31	28	25	26	25	25	25	24	06	05	36	36	05
	MAXIMUM 2-MINUTE: SPEED (MPH)	12	34	34	37	44	33	47	57	46	46	31	35	37	57
	DIR. (TENS OF DEGS)		26	14	25	28	32	01	26	05	08	05	29	23	26
	YEAR OF OCCURRENCE		1999	1998	2008	2003	2006	2008	1998	2008	2004	2007	2005	2004	JUL 1998
	MAXIMUM 3-SECOND SPEED (MPH)	12	47	47	47	52	47	60	77	66	62	40	43	62	77
	DIR. (TENS OF DEGS)		25	28	25	28	30	01	26	36	10	03	28	33	26
	YEAR OF OCCURRENCE		1999	1998	2008	2003	2006	2008	1998	2008	2004	2007	2005	1997	JUL 1998
<b>PRECIPITATION</b>	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)	67	10.20	11.12	10.71	11.61	10.43	17.15	16.21	16.83	19.36	13.44	7.85	9.77	19.36
	YEAR OF OCCURRENCE		1991	1998	2003	1973	1966	2004	1960	2008	1949	1956	1947	1997	SEP 1949
	MINIMUM MONTHLY (IN)	67	0.06	0.52	0.18	0.14	0.18	1.59	1.97	1.83	1.02	0.16	0.11	0.04	0.04
	YEAR OF OCCURRENCE		1950	1962	1945	1987	1990	1990	1977	2003	1961	1942	1960	1956	DEC 1956
	MAXIMUM IN 24 HOURS (IN)	67	3.02	6.22	7.12	8.25	5.40	6.15	10.09	9.14	10.17	7.90	5.44	4.79	10.17
	YEAR OF OCCURRENCE		1963	1970	1970	1973	1975	2004	1966	2008	1950	1992	1969	2005	SEP 1950
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.7	7.7	8.2	6.4	8.1	13.1	13.6	14.5	12.5	8.2	6.9	8.0	115.9
	PRECIPITATION >= 1.00	30	1.2	0.9	1.3	1.0	0.8	1.3	2.0	2.0	2.5	1.0	0.8	0.7	15.5
<b>SNOWFALL</b>	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	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 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) 2008 JACKSONVILLE (KJAX)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2003	0.07	4.66	10.71	2.63	2.54	6.75	7.33	1.83	3.04	2.98	0.74	1.19	44.47
2004	1.64	4.47	1.36	2.02	1.24	17.15	8.60	9.85	16.31	1.32	2.85	2.66	69.47
2005	1.90	3.56	3.67	4.54	3.51	14.79	7.37	4.43	5.76	6.49	1.05	7.38	64.45
2006	2.30	3.91	0.68	1.22	2.01	7.25	3.97	7.08	4.55	1.81	0.39	2.90	38.07
2007	2.32	2.40	2.22	1.02	1.12	6.68	9.48	3.57	5.44	8.85	0.17	2.74	46.01
2008	2.63	5.22	3.50	2.34	0.66	8.21	8.73	16.83	5.84	1.62	1.01	0.59	57.18
POR= 61 YRS	3.08	3.45	3.78	2.92	3.23	6.09	6.59	7.24	7.90	4.04	1.91	2.65	52.88

WBAN : 13889

**AVERAGE TEMPERATURE (°F) 2008 JACKSONVILLE (KJAX)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2003	47.6	56.0	65.3	66.7	76.5	79.0	80.6	80.4	76.4	70.4	65.3	51.3	68.0
2004	52.3	53.8	62.8	65.5	76.1	80.9	81.6	81.1	79.1	72.5	64.2	53.0	68.6
2005	56.7	56.8	59.7	63.5	71.5	79.5	83.2	83.3	79.6	70.8	63.7	52.2	68.4
2006	57.2	54.3	60.7	69.9	74.6	79.3	81.3	82.9	78.7	68.7	60.0	60.4	69.0
2007	56.6	54.4	62.8	65.5	71.8	78.5	81.8	83.0	78.9	73.7	59.9	59.5	68.9
2008	52.5	57.6	60.1	66.2	73.7	79.8	80.5	81.0	77.9	68.0	57.7	59.0	67.8
POR= 61 YRS	53.9	56.6	62.1	68.0	74.8	79.9	82.4	81.8	78.6	70.4	61.9	55.5	68.8

**HEATING DEGREE DAYS (base 65°F) 2008 JACKSONVILLE (KJAX)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2002-03	0	0	0	5	206	376	533	258	74	49	0	0	1501
2003-04	0	0	0	1	97	417	402	329	120	77	6	0	1449
2004-05	0	0	0	7	93	393	275	239	205	88	2	0	1302
2005-06	0	0	0	56	88	389	253	297	176	16	2	0	1277
2006-07	0	0	0	53	189	184	287	298	106	83	0	0	1200
2007-08	0	0	0	1	164	188	384	226	172	57	5	0	1197
2008-	0	0	0	65	247	213							

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**COOLING DEGREE DAYS (base 65°F) 2008 JACKSONVILLE (KJAX)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2003	0	12	89	108	365	429	491	487	350	176	109	0	2616
2004	15	11	60	100	359	484	521	505	428	246	76	29	2834
2005	25	17	47	50	211	442	571	576	447	242	55	0	2683
2006	19	5	50	171	307	435	511	562	419	172	46	45	2742
2007	33	8	45	106	219	412	526	565	424	281	18	24	2661
2008	3	20	27	100	281	448	487	504	395	165	34	35	2499

## SNOWFALL (inches) 2008 JACKSONVILLE (KJAX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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							
2002-03													
2003-04													
2004-05													
2005-													
POR= 54 YRS	T	0.0	0.0	0.0	0.0	T	T	T	T	T	0.0	T	T

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### REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</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> <p><b>NOTE:</b> The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2008 JACKSONVILLE FLORIDA (KJAX)

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

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE							REMARKS		
				NORTH	WEST	SEA LEVEL	GROUND						AUTOMATIC OBSERVING EQUIPMENT *				
							GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE		WEIGHING RAIN GAUGE		8 INCH RAIN GAUGE	HYGROTHERMOMETER
<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.
++ Jacksonville Imeson Airport effective 7/12/67.																	
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.