

2002

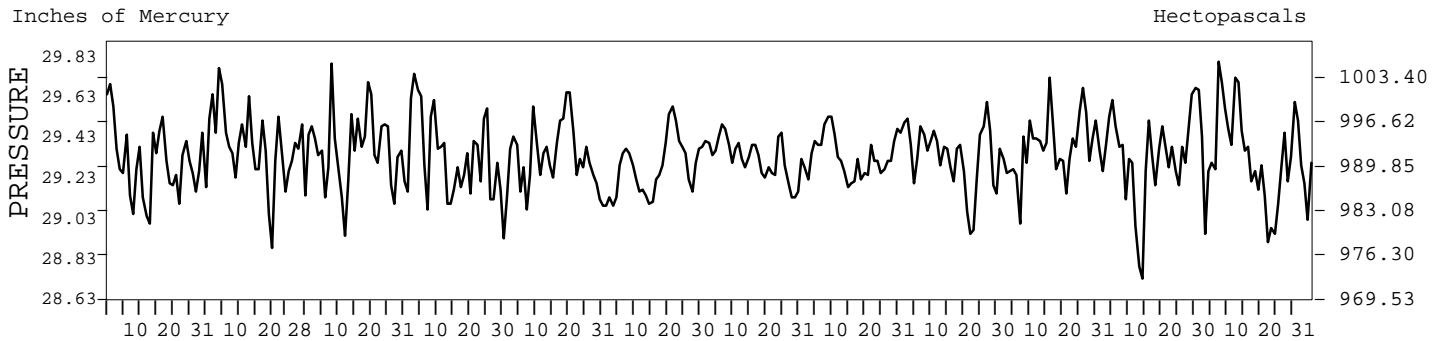
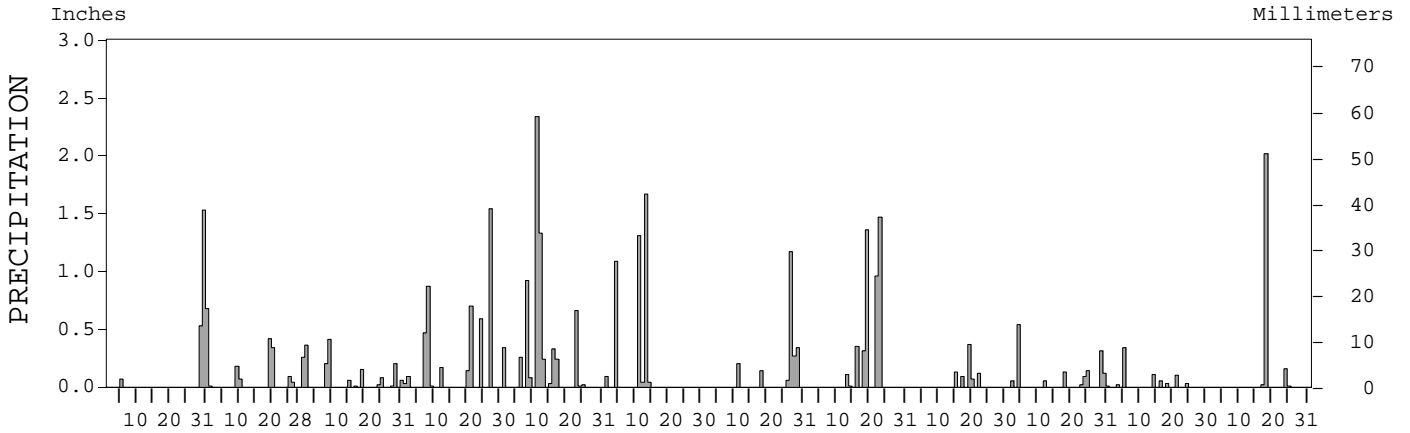
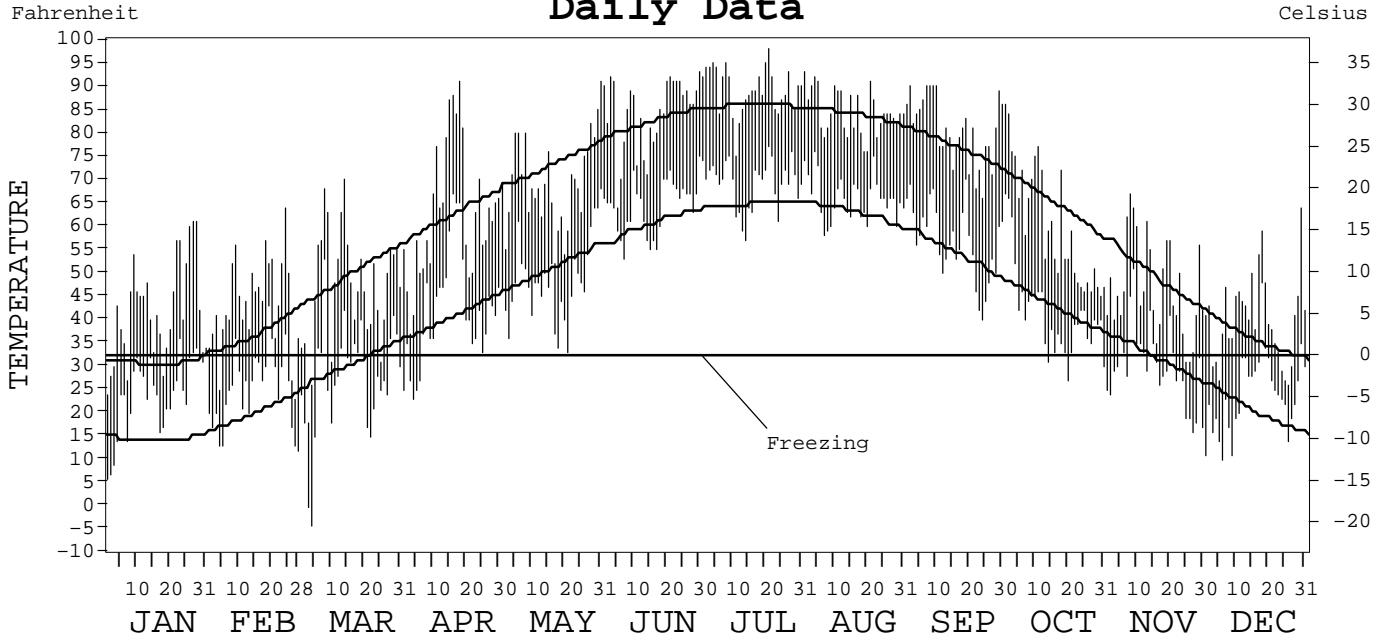
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1889

PEORIA,  
ILLINOIS (PIA)

## Daily Data



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# METEOROLOGICAL DATA FOR 2002

## PEORIA, IL (PIA)

LATITUDE: 40° 40' 03" N      LONGITUDE: 89° 41' 02" W      ELEVATION (FT): GRND: 713      BARO: 716      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14842

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.0	43.3	47.0	62.9	69.4	84.2	89.1	84.5	80.6	60.2	46.9	40.1	62.5	
	HIGHEST DAILY MAXIMUM	61	64	70	91	91	93	98	93	90	86	67	64	98	
	DATE OF OCCURRENCE	28+	24	14	18	31	30	21	01	10+	01	08	30	JUL 21	
	MEAN DAILY MINIMUM	24.1	25.1	27.4	41.8	48.3	64.1	69.1	66.0	56.7	41.5	30.1	24.0	43.2	
	LOWEST DAILY MINIMUM	6	12	-4	23	33	53	57	58	40	27	16	10	-4	
	DATE OF OCCURRENCE	01	28	04	04	21	07	14	07	24	20	27	06	MAR 04	
	AVERAGE DRY BULB	33.1	34.2	37.2	52.4	58.9	74.2	79.1	75.3	68.7	50.9	38.5	32.1	52.9	
	MEAN WET BULB	29.6	30.8	33.6	54.4	68.1	72.1	69.9	62.5	46.6	35.2	29.3	29.3	29.3	
	MEAN DEW POINT	24.5	25.5	28.2		49.9	64.5	68.4	66.9	58.6	42.9	30.2	24.3	24.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	1	9	15	6	5	0	0	0	0	37
	MAXIMUM ≤ 32°	5	3	4	0	0	0	0	0	0	0	2	7	21	
	MINIMUM ≤ 32°	27	24	20	5	0	0	0	0	0	3	19	28	126	
MINIMUM ≤ 0°	0	0	2	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	981	856	853	419	225	5	0	0	38	459	788	1013	5637	
	COOLING DEGREE DAYS	0	0	0	46	45	287	445	322	157	26	0	0	1328	
RH	MEAN (PERCENT)	74	73	73	70	73	73	72	77	73	78	74	75	74	
	HOUR 00 LST	78	76	77	74	81	81	81	86	83	86	77	80	80	
	HOUR 06 LST	83	82	84	82	84	86	86	91	92	92	83	84	86	
	HOUR 12 LST	63	66	65	63	65	62	59	66	57	67	66	66	64	
	HOUR 18 LST	68	66	64	59	63	63	60	68	66	71	70	71	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	3	1	0	1	0	0	1	1	0	4	11	
	THUNDERSTORMS	0	0	3	6	7	7	4	7	1	0	1	1	36	
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.)	29.30	29.39	29.37	29.34	29.32	29.28	29.32	29.35	29.32	29.39	29.32	29.33	29.34	
	MEAN SEA-LEVEL PRESS. (IN.)	30.03		30.10	30.05		29.97	30.02	30.04	30.02		30.04	30.06		
WINDS	RESULTANT SPEED (MPH)	4.5	5.5	1.2	2.4	1.4	1.0	2.2	1.6	1.9	0.5	3.9	2.0	2.1	
	RES. DIR. (TENS OF DEGS.)	23	24	23	20	18	20	20	18	21	02	25	23	22	
	MEAN SPEED (MPH)	8.5	10.3	10.4	10.2	8.3	6.6	6.3	7.1	5.7	6.8	7.7	8.7	8.0	
	PREVAIL. DIR. (TENS OF DEGS.)	19	17	18	18	19	19	22	07	20	07	28	20	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	31	40	36	28	32	26	24	23	32	28	31	40	
	DIR. (TENS OF DEGS.)	20	17	27	21	20	27	19	21	20	27	30	17	27	
	DATE OF OCCURRENCE	22	24	09	18	15+	04	27	15	30	04	30	18	MAR 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	41	37	52	41	36	41	30	30	28	43	37	41	52	
DIR. (TENS OF DEGS.)	19	17	26	20	27	26	20	20	21	29	29	26	26		
DATE OF OCCURRENCE	22	24	09	18	09	04	27	15	30+	04	30	20+	MAR 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.81	1.15	1.82	4.61	6.80	4.24	2.18	4.57	0.78	1.46	0.68	2.21	33.31	
	GREATEST 24-HOUR (IN.)	1.85	0.61	0.62	1.54	3.50	1.67	1.23	2.43	0.43	0.54	0.34	2.04	3.50	
	DATE OF OCCURRENCE	29-30	19-20	01-02	27	11-12	13	26-27	22-23	19-20	04	05	17-18	MAY 11-12	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	4	7	12	10	13	6	6	7	5	10	7	4	91	
PRECIPITATION ≥ 0.10	3	3	6	7	9	3	5	6	3	5	3	2	55		
PRECIPITATION ≥ 1.00	1	0	0	1	2	3	1	2	0	0	0	1	11		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	2.4	1.4	7.5	T	0.0	T	0.0	0.0	0.0	0.0	T	3.3	14.6	
	GREATEST 24-HOUR (IN.)	1.4	0.7	3.8	T	T	T	0.0	0.0	0.0	0.0	T	2.8	3.8	
	DATE OF OCCURRENCE	30	26	02	03	13	04	0	0	0	0	30+	24	MAR 02	
	MAXIMUM SNOW DEPTH (IN.)	1	1	4	0	0	0	0	0	0	0	0	3	4	
	DATE OF OCCURRENCE	06	28+	03									25	MAR 03	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2	0	3	0	0	0	0	0	0	0	0	1	6		

# NORMALS, MEANS, AND EXTREMES

## PEORIA, IL (PIA)

LATITUDE: 40° 40' 03" N      LONGITUDE: 89° 41' 02" W      ELEVATION (FT): GRND: 713      BARO: 716      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14842

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	30.7	36.6	49.4	62.0	73.0	82.2	85.7	83.6	76.7	64.4	48.8	35.5	60.7
	MEAN DAILY MAXIMUM	97	32.2	36.4	48.3	61.6	72.5	82.2	86.4	84.4	77.2	65.1	49.3	36.1	61.0
	HIGHEST DAILY MAXIMUM	63	70	72	86	92	93	105	103	103	100	90	81	71	105
	YEAR OF OCCURRENCE		1989	1976	1986	1986	1987	1988	1940	1988	1953	1963	1950	1982	JUN 1988
	MEAN OF EXTREME MAXS.	97	53.0	58.0	72.9	81.9	88.2	94.2	96.5	94.9	91.5	83.0	70.4	57.4	78.5
	NORMAL DAILY MINIMUM	30	14.3	19.7	30.2	40.3	50.8	60.1	64.6	62.6	54.0	42.3	31.4	20.1	40.9
	MEAN DAILY MINIMUM	97	16.0	19.9	29.5	40.7	50.9	60.5	64.8	63.0	55.1	43.4	31.7	20.9	41.4
	LOWEST DAILY MINIMUM	63	-25	-19	-10	14	25	39	47	41	26	19	-2	-23	-25
	YEAR OF OCCURRENCE		1977	1996	1960	1982	1966	1993	1972	1986	1942	1972	1977	1989	JAN 1977
	MEAN OF EXTREME MINS.	97	-6.9	-1.6	10.6	25.4	35.7	46.7	53.3	50.5	38.4	27.1	14.1	-1.4	24.3
	NORMAL DRY BULB	30	21.6	26.3	39.0	51.4	61.9	71.5	75.5	73.1	66.1	54.0	41.2	27.0	50.7
	MEAN DRY BULB	97	24.1	28.1	38.8	51.2	61.8	71.3	75.6	73.7	66.1	54.3	40.5	28.5	51.2
	MEAN WET BULB	19	23.5	28.0	36.0	46.2	56.4	65.0	69.2	67.6	59.4	48.4	37.3	27.0	47.0
	MEAN DEW POINT	19	19.4	23.1	29.7	39.5	50.8	60.6	65.7	64.3	55.1	43.2	32.5	22.9	42.2
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.5	4.7	8.4	5.2	1.6	*	0.0	0.0	20.5	
MAXIMUM ≤ 32°	30	17.4	11.7	3.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	12.6	46.6	
MINIMUM ≤ 32°	30	29.4	25.3	19.5	5.9	0.4	0.0	0.0	0.0	0.1	4.7	16.7	26.7	128.7	
MINIMUM ≤ 0°	30	6.7	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	13.2	
H/C	NORMAL HEATING DEG. DAYS	30	1316	1045	788	423	159	19	2	7	94	368	738	1138	6097
	NORMAL COOLING DEG. DAYS	30	0	0	1	11	64	210	325	263	112	12	0	0	998
RH	NORMAL (PERCENT)	30	74	74	70	65	66	67	72	74	73	70	74	78	71
	HOUR 00 LST	30	77	78	76	71	74	76	82	84	82	78	79	81	78
	HOUR 06 LST	30	79	80	81	78	80	81	86	89	88	85	83	83	83
	HOUR 12 LST	30	68	66	62	55	56	56	59	60	59	58	66	72	61
	HOUR 18 LST	30	72	70	64	55	55	56	60	63	64	63	71	76	64
S	PERCENT POSSIBLE SUNSHINE	52	47	50	51	55	60	67	69	67	64	61	43	42	56
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI) THUNDERSTORMS	60 60	3.1 0.5	2.8 0.6	2.2 2.6	0.9 5.0	0.9 6.9	0.6 8.2	1.0 7.5	1.4 6.4	1.4 4.7	1.7 2.5	2.0 1.4	3.2 0.6	21.2 46.9
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS) MIDNIGHT-MIDNIGHT (OKTAS)	1						5.6						7.2	
	MEAN NO. DAYS WITH:														
	CLEAR	1		1.0	5.0		5.0	9.0							
	PARTLY CLOUDY CLOUDY	1 1	1.0 5.0		3.0 10.0		1.0 11.0	4.0 9.0							
PR	MEAN STATION PRESSURE(IN)	30	29.40	29.39	29.30	29.30	29.29	29.29	29.30	29.30	29.30	29.40	29.31	29.40	29.33
	MEAN SEA-LEVEL PRES. (IN)	19	30.12	30.12	30.06	29.96	29.96	29.96	29.99	30.03	30.05	30.08	30.08	30.14	30.05
WINDS	MEAN SPEED (MPH)	46	10.8	10.8	11.7	11.4	9.6	8.5	7.5	7.1	8.0	9.1	10.5	10.3	9.6
	PREVAIL.DIR(TENS OF DEGS)	34	18	18	18	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	7	38	39	54	45	36	39	30	37	35	44	44	33	54
	DIR. (TENS OF DEGS)		23	25	23	24	28	26	24	30	26	27	23	22	23
	YEAR OF OCCURRENCE		1996	2001	1998	1997	2001	2001	1997	2001	2001	1996	1998	1998	MAR 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	7	47	52	64	56	44	59	41	49	46	60	58	41	64	
DIR. (TENS OF DEGS)		27	28	20	24	28	22	22	29	26	23	24	26	20	
YEAR OF OCCURRENCE		1996	2001	1998	1997	2001	2001	1997	2001	2001	1996	1998	2002	MAR 1998	
PRECIPITATION	NORMAL (IN)	30	1.50	1.67	2.83	3.56	4.17	3.84	4.02	3.16	3.12	2.77	2.99	2.40	36.03
	MAXIMUM MONTHLY (IN)	63	8.11	5.37	6.95	8.66	10.19	11.69	10.15	8.61	13.09	10.80	7.62	6.34	13.09
	YEAR OF OCCURRENCE		1965	1997	1973	1947	1995	1974	1993	1965	1961	1941	1985	1949	SEP 1961
	MINIMUM MONTHLY (IN)	63	0.22	0.33	0.39	0.71	0.82	0.60	0.33	0.25	0.03	0.03	0.22	0.32	0.03
	YEAR OF OCCURRENCE		1986	1947	1958	1971	1992	1988	1988	1992	1979	1964	1999	1995	SEP 1979
	MAXIMUM IN 24 HOURS (IN)	59	4.45	3.34	3.39	5.06	3.62	4.44	4.22	4.32	4.15	3.70	4.32	3.38	5.06
	YEAR OF OCCURRENCE		1965	1997	1944	1950	1956	1974	1993	1955	1961	1969	1990	1949	APR 1950
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.5	8.2	11.0	11.6	10.7	9.0	9.1	8.7	9.0	8.4	9.5	10.6	115.3	
PRECIPITATION ≥ 1.00	30	0.3	0.2	0.4	1.0	0.8	1.0	1.4	0.8	1.0	0.5	0.6	0.5	8.5	
SNOWFALL	NORMAL (IN)	30	8.2	5.6	3.2	1.0	0.*	0.0	0.0	0.0	0.*	2.1	7.1	27.2	
	MAXIMUM MONTHLY (IN)	58	24.7	15.2	16.9	13.4	0.1	T	T	0.0	T	1.8	9.1	21.7	
	YEAR OF OCCURRENCE		1979	1989	1960	1982	1966	2000	1990		1992	1967	1974	1977	JAN 1979
	MAXIMUM IN 24 HOURS (IN)	58	12.2	7.6	9.0	6.1	0.1	T	T	0.0	T	1.8	7.2	10.2	
	YEAR OF OCCURRENCE		1979	1944	1946	1982	1966	2000	1990		1992	1967	1951	1973	JAN 1979
	MAXIMUM SNOW DEPTH (IN)	95	20	17	10	10	0	0	0	0	1	3	7	13	20
	YEAR OF OCCURRENCE		1979	1979	1960	1982					1942	1929	1975	1973	JAN 1979
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.6	1.8	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	8.2	

PRECIPITATION (inches) 2002 PEORIA, IL (PIA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.76	0.99	6.95	4.26	4.51	6.46	6.04	0.90	7.58	5.18	1.48	4.11	50.22
1974	3.09	1.65	2.69	4.11	6.26	11.69	2.63	0.81	1.45	2.07	4.13	1.93	42.51
1975	2.59	2.85	1.73	3.92	5.19	3.90	4.26	5.62	2.74	3.63	2.75	2.04	41.22
1976	0.78	2.56	4.25	4.86	5.11	2.92	2.98	2.30	1.78	2.48	0.83	0.38	31.23
1977	1.22	0.95	4.41	1.24	3.54	2.06	3.43	7.28	6.26	4.00	1.77	2.25	38.41
1978	0.69	0.59	1.56	4.69	7.72	1.96	3.47	1.28	2.32	1.73	2.54	3.54	32.09
1979	2.48	1.37	4.42	4.48	1.96	1.77	4.81	0.87	0.03	1.70	2.76	2.33	28.98
1980	0.59	1.06	2.79	2.78	2.05	8.94	1.43	6.16	4.09	2.44	0.67	2.25	35.25
1981	0.48	2.41	0.92	5.71	5.77	6.22	7.08	5.61	1.31	1.37	1.64	1.24	39.76
1982	2.88	1.13	4.80	5.40	3.15	3.15	7.53	3.97	1.24	1.47	4.95	5.45	45.12
1983	0.53	1.01	2.84	7.06	6.66	4.48	1.99	1.09	5.08	3.01	5.58	2.65	41.98
1984	0.59	2.28	3.95	5.18	4.84	2.90	5.02	0.78	2.38	5.07	3.95	3.82	40.76
1985	0.99	2.62	5.77	1.14	3.14	5.11	3.43	3.70	3.43	4.61	7.62	2.24	43.80
1986	0.22	1.79	0.87	1.39	2.95	6.53	7.00	1.74	6.39	4.64	1.32	2.60	37.44
1987	1.49	0.84	1.98	1.84	1.69	3.27	2.90	4.02	1.62	0.73	2.88	4.15	27.41
1988	1.99	0.71	2.83	1.59	1.68	0.60	0.33	2.11	2.82	1.08	4.19	2.23	22.16
1989	1.00	1.17	1.14	4.39	2.23	1.28	2.22	2.86	2.87	1.57	0.93	0.87	22.53
1990	1.73	3.59	3.95	2.32	6.19	7.99	9.18	5.31	1.03	3.17	7.19	3.70	55.35
1991	1.19	0.57	3.67	2.97	5.94	1.50	0.35	3.41	3.59	7.31	3.57	2.06	36.13
1992	1.06	1.55	2.58	1.61	0.82	0.80	8.19	0.25	5.81	1.33	5.58	2.99	32.57
1993	3.55	1.68	4.08	4.89	3.25	5.70	10.15	7.38	7.56	2.42	2.22	1.19	54.07
1994	0.92	1.98	0.66	3.86	1.52	1.81	1.37	2.92	1.27	3.19	3.49	2.21	25.20
1995	2.83	0.54	1.56	4.77	10.19	1.57	2.83	1.95	1.47	3.23	2.48	0.32	33.74
1996	1.44	0.82	2.04	2.55	7.60	2.08	4.57	1.03	1.62	2.51	2.16	1.06	29.48
1997	1.05	5.37	1.68	2.76	2.65	1.38	0.89	6.10	3.13	2.29	2.85	1.69	31.84
1998	2.55	2.64	4.67	4.96	5.50	5.19	1.64	5.26	2.30	3.21	2.63	1.75	42.30
1999	3.07	1.16	0.94	4.31	4.92	3.21	4.22	2.78	1.54	1.35	0.22	2.55	30.27
2000	0.80	1.82	1.63	2.53	4.04	3.76	1.95	0.91	2.64	1.95	3.22	0.96	26.21
2001	3.29	2.82	1.09	4.21	5.33	2.79	1.46	4.24	4.15	5.08	1.90	1.35	37.71
2002	2.81	1.15	1.82	4.61	6.80	4.24	2.18	4.57	0.78	1.46	0.68	2.21	33.31
POR= 147 YRS	1.80	1.81	2.77	3.56	4.01	3.83	3.74	3.05	3.57	2.51	2.38	2.00	35.03

WBAN : 14842

AVERAGE TEMPERATURE (°F) 2002 PEORIA, IL (PIA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	27.4	28.9	46.5	50.9	57.9	71.8	75.0	74.7	67.0	57.7	42.4	24.8	52.1
1974	23.1	29.4	41.1	53.6	59.3	66.7	76.9	72.2	61.1	53.6	39.6	29.9	50.5
1975	27.5	26.1	33.8	47.0	64.6	72.1	73.8	74.7	60.9	55.3	44.9	30.2	50.9
1976	19.5	34.9	43.9	54.1	58.2	70.5	75.3	70.3	63.3	47.3	32.0	21.0	49.2
1977	8.6	27.0	44.6	57.1	68.6	70.2	78.2	71.4	66.4	51.3	40.3	22.8	50.5
1978	13.3	15.4	32.4	51.2	60.3	71.3	75.0	73.2	70.5	52.1	41.3	26.8	48.6
1979	9.4	14.7	37.9	47.7	60.5	71.2	73.0	72.5	65.6	52.6	38.0	31.8	47.9
1980	23.6	19.9	35.6	49.2	63.0	69.3	78.5	76.9	67.9	49.6	40.7	28.9	50.3
1981	23.7	27.8	40.7	55.4	58.7	73.2	75.4	72.8	65.9	53.4	45.0	27.3	51.6
1982	15.8	24.8	37.7	46.5	68.4	67.2	75.7	71.3	64.9	55.0	41.5	37.4	50.5
1983	28.2	33.5	40.3	46.8	58.6	72.6	80.2	80.8	67.9	55.3	44.9	15.2	52.0
1984	20.6	35.5	31.3	49.6	58.8	74.3	73.0	74.9	64.0	57.6	40.3	33.9	51.2
1985	16.8	23.2	43.8	57.0	64.3	68.7	73.7	70.2	66.6	55.5	39.0	18.6	49.8
1986	26.6	23.5	43.2	55.4	64.0	72.3	77.4	68.9	68.9	55.2	36.2	30.9	51.9
1987	25.2	35.7	44.1	54.1	68.4	74.0	79.0	73.7	65.7	48.0	44.6	32.4	53.7
1988	22.7	23.5	39.9	51.1	65.4	73.1	78.6	78.5	68.2	48.2	41.5	29.7	51.7
1989	33.9	18.7	39.2	50.7	59.1	69.8	75.3	72.4	62.2	54.9	39.8	16.2	49.4
1990	34.8	33.7	43.4	50.0	57.8	71.0	72.6	72.1	66.1	51.9	45.2	27.7	52.2
1991	21.5	32.4	42.8	55.8	68.0	74.7	75.4	74.3	65.4	53.9	36.0	32.0	52.7
1992	30.1	35.6	42.3	50.0	61.0	69.7	72.4	68.6	64.2	53.1	39.8	29.5	51.4
1993	27.4	25.1	36.4	49.8	63.6	70.4	76.1	75.0	61.4	51.7	39.4	31.4	50.6
1994	18.2	26.2	41.0	53.2	61.7	74.4	74.6	71.6	66.7	56.2	44.8	34.7	51.9
1995	24.1	28.3	42.6	49.3	58.3	72.1	76.2	79.4	62.7	54.2	34.4	27.5	50.8
1996	21.9	28.9	34.0	48.1	60.0	71.1	72.0	73.4	64.4	54.0	33.7	28.7	49.2
1997	19.3	31.9	41.4	47.1	57.1	70.7	75.4	71.5	66.1	54.9	38.1	30.9	50.4
1998	29.7	39.6	39.5	52.1	66.8	70.7	75.7	75.2	70.4	55.5	45.2	33.3	54.5
1999	22.9	36.1	38.2	53.7	63.9	72.0	78.1	71.2	64.1	54.4	47.2	31.5	52.8
2000	25.7	36.7	46.5	51.6	64.5	69.2	73.3	75.9	66.5	57.4	37.6	16.1	51.8
2001	24.2	28.6	36.4	57.8	63.8	69.7	76.8	74.6	64.0	53.0	50.0	34.5	52.8
2002	33.1	34.2	37.2	52.4	58.9	74.2	79.1	75.3	68.7	50.9	38.5	32.1	52.9
POR= 98 YRS	24.1	28.2	38.8	51.1	61.8	71.3	75.6	73.6	66.2	54.3	40.5	28.5	51.2

HEATING DEGREE DAYS (base 65°F) 2002 PEORIA, IL (PIA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	54	253	671	1237	1292	991	736	348	214	42	5838
1974-75	0	1	157	354	756	1081	1156	1085	959	534	92	17	6192
1975-76	13	1	171	306	596	1069	1404	868	648	351	221	5	5653
1976-77	0	9	106	556	981	1357	1747	1061	623	273	60	17	6790
1977-78	0	6	39	418	734	1301	1595	1383	1006	405	222	14	7123
1978-79	0	4	49	390	704	1174	1722	1403	833	510	194	10	6993
1979-80	3	19	70	401	804	1022	1279	1300	907	474	123	26	6428
1980-81	0	0	65	470	722	1112	1273	1037	748	295	221	1	5944
1981-82	1	0	60	360	594	1163	1520	1119	839	548	29	28	6261
1982-83	0	13	94	325	697	849	1133	875	758	537	206	17	5504
1983-84	2	0	92	311	595	1541	1371	849	1038	467	206	1	6473
1984-85	1	1	153	246	734	956	1489	1164	656	284	71	38	5793
1985-86	0	6	111	287	774	1432	1184	1156	683	314	92	7	6046
1986-87	0	26	37	305	858	1048	1228	814	640	340	53	2	5351
1987-88	0	16	68	520	609	1001	1306	1198	772	409	64	12	5975
1988-89	0	4	38	517	698	1090	958	1290	796	442	231	25	6089
1989-90	0	3	134	317	749	1509	929	871	672	475	226	16	5901
1990-91	8	3	99	409	589	1148	1341	909	683	285	86	0	5560
1991-92	0	0	143	347	863	1017	1078	847	698	444	180	19	5636
1992-93	0	23	109	367	748	1094	1159	1110	878	450	96	48	6082
1993-94	0	0	135	408	761	1035	1448	1078	734	371	157	12	6139
1994-95	0	8	67	282	602	932	1258	1022	687	466	207	7	5538
1995-96	2	0	133	332	911	1154	1328	1041	954	499	210	28	6592
1996-97	2	0	97	338	930	1120	1412	922	723	530	252	18	6344
1997-98	5	3	54	364	802	1051	1088	707	793	381	50	44	5342
1998-99	0	0	19	297	587	975	1300	806	823	333	91	18	5249
1999-00	0	0	102	330	529	1031	1214	814	566	394	103	22	5105
2000-01	0	0	92	252	818	1507	1256	1013	881	248	120	36	6223
2001-02	1	0	102	371	444	938	981	856	853	419	225	5	5195
2002-	0	0	38	459	788	1013							

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COOLING DEGREE DAYS (base 65°F) 2002 PEORIA, IL (PIA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	7	3	211	315	306	121	35	0	0	998
1974	0	0	0	12	43	99	377	233	47	6	0	0	817
1975	0	0	0	0	83	237	292	307	55	14	0	0	988
1976	0	0	0	28	14	176	326	180	62	14	0	0	800
1977	0	0	0	42	176	179	416	209	88	0	0	0	1110
1978	0	0	0	0	81	208	316	267	221	0	0	0	1093
1979	0	0	0	0	62	206	259	258	95	23	0	0	903
1980	0	0	0	6	70	160	425	378	156	1	0	0	1196
1981	0	0	0	13	33	250	331	250	93	6	1	0	977
1982	0	0	0	0	141	101	338	215	96	26	0	0	917
1983	0	0	0	0	14	250	479	494	188	17	0	0	1442
1984	0	0	0	12	24	285	256	315	129	22	0	0	1043
1985	0	0	3	48	54	155	279	173	164	0	0	0	876
1986	0	0	15	30	68	234	392	157	161	6	0	0	1063
1987	0	0	0	19	166	278	440	293	92	0	3	0	1291
1988	0	0	0	2	84	266	431	428	140	5	0	0	1356
1989	0	0	2	20	56	177	324	240	57	11	0	0	887
1990	0	0	9	34	8	204	251	230	138	9	0	0	883
1991	0	0	4	16	189	296	331	293	159	11	0	0	1299
1992	0	0	0	1	62	171	237	140	90	6	0	0	707
1993	0	0	0	2	60	218	350	321	33	6	0	0	990
1994	0	0	0	25	61	300	307	218	123	16	0	0	1050
1995	0	0	0	0	6	225	355	453	73	5	0	0	1117
1996	0	0	0	0	63	217	224	267	88	5	0	0	864
1997	0	0	0	0	12	199	334	210	94	59	0	0	908
1998	0	0	9	0	114	222	337	318	187	10	0	0	1197
1999	0	0	0	2	68	233	414	197	82	8	0	0	1004
2000	0	0	2	0	92	155	262	345	146	25	4	0	1031
2001	0	0	0	38	89	184	372	307	78	4	0	0	1072
2002	0	0	0	46	45	287	445	322	157	26	0	0	1328

SNOWFALL (inches) 2002 PEORIA, IL (PIA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	0.1	18.9	6.7	1.9	0.9	1.2	0.0	0.0	29.7
1974-75	0.0	0.0	0.0	0.0	9.1	6.2	8.8	12.8	3.8	1.6	0.0	0.0	42.3
1975-76	0.0	0.0	0.0	0.0	8.1	1.4	8.6	2.5	2.0	0.0	0.0	0.0	22.6
1976-77	0.0	0.0	0.0	T	0.4	4.1	16.3	4.1	2.4	1.4	0.0	0.0	28.7
1977-78	0.0	0.0	0.0	0.0	6.4	21.7	7.0	7.0	5.0	0.0	0.0	0.0	47.1
1978-79	0.0	0.0	0.0	0.0	2.6	14.2	24.7	3.6	6.5	T	0.0	0.0	51.6
1979-80	0.0	0.0	0.0	0.0	0.8	0.1	3.7	11.3	5.3	6.3	0.0	0.0	27.5
1980-81	0.0	0.0	0.0	T	4.1	3.3	5.9	10.5	T	0.0	0.0	0.0	23.8
1981-82	0.0	0.0	0.0	0.0	0.1	9.8	11.0	6.1	6.5	13.4	0.0	0.0	46.9
1982-83	0.0	0.0	0.0	0.0	0.9	2.0	5.6	4.8	5.7	0.1	0.0	0.0	19.1
1983-84	0.0	0.0	0.0	0.0	3.3	15.9	6.9	4.1	6.0	0.0	0.0	0.0	36.2
1984-85	0.0	0.0	0.0	0.0	T	0.9	9.8	6.2	T	T	0.0	0.0	16.9
1985-86	0.0	0.0	0.0	0.0	1.0	6.2	1.3	13.9	0.4	0.1	0.0	0.0	22.9
1986-87	0.0	0.0	0.0	0.0	1.0	T	18.0	0.1	T	0.0	0.0	0.0	19.1
1987-88	0.0	0.0	0.0	T	0.3	9.8	1.9	9.7	1.9	0.0	0.0	0.0	23.6
1988-89	0.0	0.0	0.0	0.0	0.7	4.7	0.3	15.2	T	0.9	T	0.0	21.8
1989-90	0.0	0.0	0.0	0.6	T	10.5	4.8	6.2	T	T	0.0	0.0	22.1
1990-91	T	0.0	0.0	T	T	3.8	9.8	1.0	6.9	0.0	0.0	0.0	21.5
1991-92	0.0	0.0	0.0	T	3.6	5.1	6.4	0.4	4.1	T	0.0	0.0	19.6
1992-93	0.0	0.0	T	T	0.7	6.1	6.8	12.4	3.5	0.7	0.0	0.0	30.2
1993-94	0.0	0.0	0.0	T	3.6	2.4	9.4	12.6	T	0.1	0.0	0.0	28.1
1994-95	0.0	0.0	0.0	0.0	T	0.5	3.8	2.8	0.7	T	T	0.0	7.8
1995-96	0.0	0.0	0.0	0.0	0.2	3.6	5.9	1.9	1.1	0.5	0.0	0.0	13.2
1996-97	0.0	0.0	0.0								0.0		
1997-98		0.0		T	1.9	13.0	7.1	T	7.3	T	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	0.5	5.2	18.1	1.0	6.9	T	T	0.0	31.7
1999-00	0.0	0.0	0.0	0.0	0.0	4.7	8.8	0.6	T	T	T	T	14.1
2000-01	0.0	0.0	0.0	0.0	T	21.2	5.1	1.8	2.1	T	0.0	0.0	30.2
2001-02	0.0	0.0	0.0	0.0	T	0.4	2.4	1.4	7.5	T	0.0	T	11.7
2002-	0.0	0.0	0.0	0.0	T	3.3							
POR= 57 YRS	T	0.0	T	0.1	2.0	6.1	6.6	4.8	4.0	0.8	0.0	0.0	24.4

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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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002  
PEORIA,  
ILLINOIS (PIA)

The airport station is situated on a rather level tableland surrounded by well-drained and gently rolling terrain. It is set back a mile from the rim of the Illinois River Valley and is almost 200 feet above the river bed. Exposures of all instruments are good. The climate of this area is typically continental as shown by its changeable weather and the wide range of temperature extremes.

June and September are usually the most pleasant months of the year. Then during October or the first of November, Indian Summer is often experienced with an extended period of warm, dry weather.

Precipitation is normally heaviest during the growing season and lowest during midwinter.

The earliest snowfalls have occurred in September and the latest in the spring have occurred as late as May. Heavy snowfalls have rarely exceeded 20 inches.

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 24.

# STATION LOCATION

PEORIA, ILLINOIS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS
				NORTH	WEST	GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	RAINING GAUGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE: <u>AIRPORT</u>																	
Administration Building Municipal Airport 5 miles WSW of P.O.	3/01/35	5/04/43		40°40'	89°41'	654	b26	6	5						a4	Occasional airwy observations to 3/1/36. a. Added 3/1/36. b. 20 feet to 1/39.	
Administration Building Municipal Airport	5/04/43	10/01/59	Not Moved	40°40'	89°41'	654	c50	7	7		4			3		c. 26 feet to 11/22/48.	
New Administration Bldg Greater Peoria Airport	10/01/59	10/24/79	2300 ft. WNW	40°40'	89°41'	652	20	6e	6d31	90	4d32	4d33	4d31	5	NA	d. Moved to roof 12/22/76. e. Removed 12/22/76.	
Business Aviation Bldg. Greater Peoria Airport	10/24/79	10/01/95	800 ft. ENE	40°40'	89°41'	652	f20	NAi5	5	f90h40	f32g4	f33g4	f31g4	f5j5	NA	f. Not moved 10/24/79. g. Moved to new site 10/27/79. h. Moved to new site 11/7/79. i. Installed 3/10/80. j. Type change 10/17/84.	
Greater Peoria Airport	10/01/95	Present	NA	40°40'	89°41'	k713									S	ASOS Commissioned 10/01/95 k. Ground elevation.	

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