

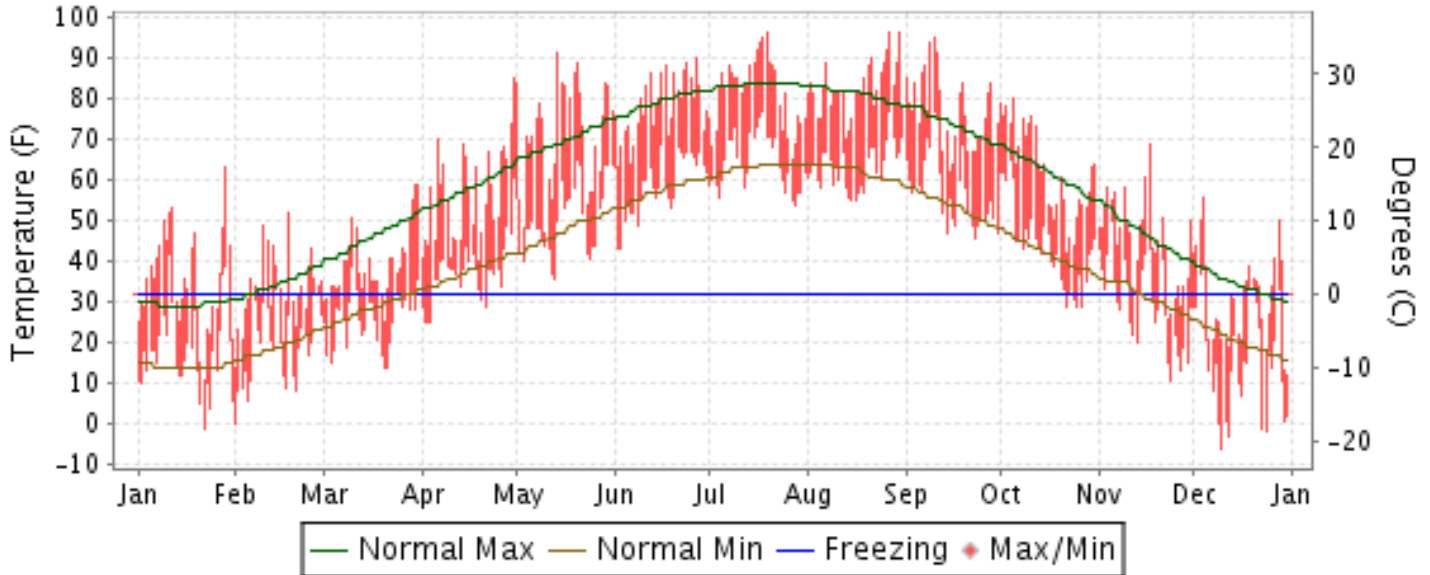


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

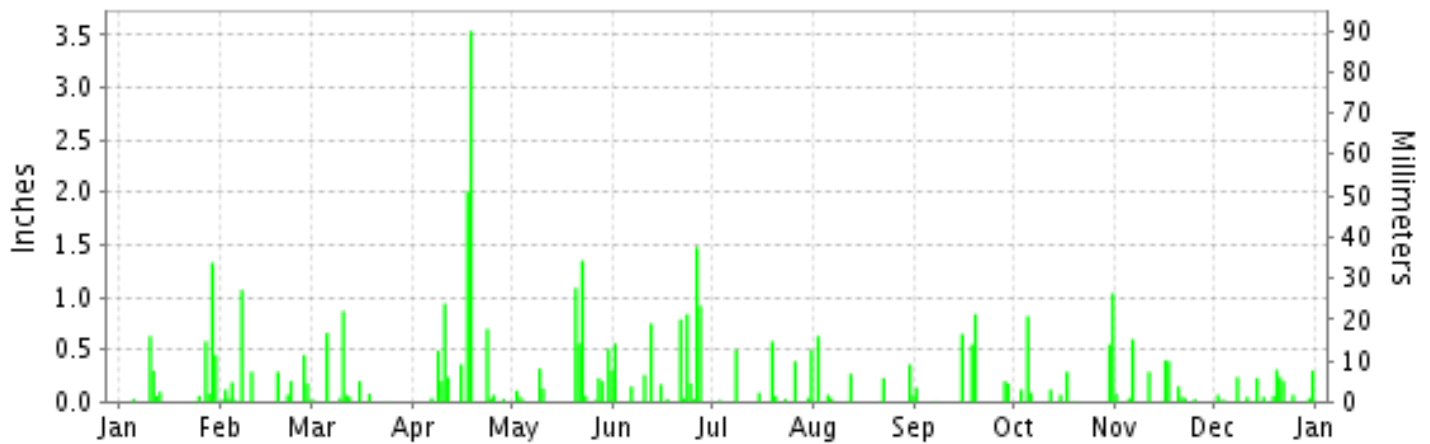
ISSN 0198-1846

## CHICAGO, ILLINOIS (KORD)

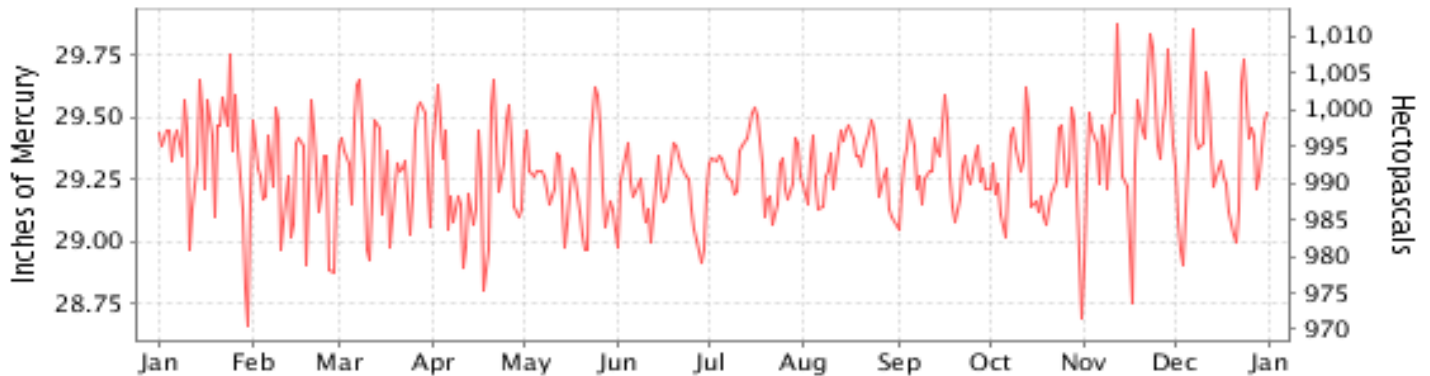
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

NATIONAL  
OCEANIC AND  
ATMOSPHERIC ADMINISTRATION

NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## CHICAGO (KORD)

LATITUDE: 41° 59'N      LONGITUDE: 87° 56'W      ELEVATION (FT): GRND: 662 BARO: 658      TIME ZONE: CENTRAL (UTC -6)      WBAN: 94846

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	35.3	33.1	39.6	56.3	71.2	78.2	81.8	82.7	77.1	62.4	45.3	31.1	57.8	
	HIGHEST DAILY MAXIMUM	63	52	59	85	91	90	96	96	95	80	69	56	96	
	DATE OF OCCURRENCE	29	18	31+	30	14	27	19	30+	10	05	17	04	AUG 30+	
	MEAN DAILY MINIMUM	17.9	19.1	25.6	37.5	50.7	58.9	64.5	63.3	57.3	43.8	29.6	15.6	40.3	
	LOWEST DAILY MINIMUM	-1	0	14	25	36	43	54	55	46	29	11	-6	-6	
	DATE OF OCCURRENCE	22	01	21+	04+	13	03+	28	16+	23	27+	24	10	DEC 10	
	AVERAGE DRY BULB	26.6	26.1	32.6	46.9	61.0	68.5	73.2	73.0	67.2	53.1	37.5	23.3	49.1	
	MEAN WET BULB	24.8	24.4	29.4	41.8	54.5	61.6	66.2	65.7	60.5	49.0	34.4	22.2	44.5	
	MEAN DEW POINT	18.5	19.5	23.2	35.1	48.4	57.1	61.8	60.8	55.5	44.3	28.4	16.9	39.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	1	4	4	3	0	0	0	0	13
	MAXIMUM <= 32°	14	13	4	0	0	0	0	0	0	0	4	16	51	
MINIMUM <= 32°	28	27	28	6	0	0	0	0	0	5	18	26	138		
MINIMUM <= 0°	1	1	0	0	0	0	0	0	0	0	0	5	7		
H/C	HEATING DEGREE DAYS	1182	1083	994	542	193	43	9	2	68	385	819	1283	6603	
	COOLING DEGREE DAYS	0	0	0	8	76	156	268	257	143	25	0	0	933	
RH	MEAN (PERCENT)	70	76	70	67	65	70	69	67	68	73	70	74	70	
	HOUR 00 LST	72	77	74	74	75	78	79	77	77	80	71	75	76	
	HOUR 06 LST	75	80	78	78	78	81	81	84	83	84	76	78	80	
	HOUR 12 LST	64	72	62	58	56	62	57	52	52	61	62	69	61	
	HOUR 18 LST	68	74	66	60	57	61	60	57	60	69	69	71	64	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	1	2	0	0	0	0	0	0	1	0	1	5	
	THUNDERSTORMS	2	0	0	6	7	9	4	3	3	2	2	0	38	
PR	MEAN STATION PRESS. (IN.)	29.35	29.24	29.30	29.25	29.23	29.19	29.30	29.31	29.29	29.26	29.41	29.34	29.29	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	29.99	30.05	29.99	29.96	29.91	30.01	30.03	30.01	29.99	30.16	30.10	30.03	
WINDS	RESULTANT SPEED (MPH)	6.9	4.2	3.7	2.1	1.1	1.1	0.9	1.0	0.2	3.7	6.1	4.5	2.3	
	RES. DIR. (TENS OF DEGS.)	25	28	32	22	07	03	29	26	13	24	24	27	27	
	MEAN SPEED (MPH)	11.7	11.2	10.3	11.8	9.2	8.5	7.5	7.4	8.3	8.4	11.4	9.9	9.6	
	PREVAIL.DIR.(TENS OF DEGS.)	29	26	34	18	03	02	26	23	35	26	22	26	26	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	33	31	37	31	38	39	35	26	26	43	29	43	
	DIR. (TENS OF DEGS.)	27	27	28	18	24	24	33	32	32	23	25	27	25	
	DATE OF OCCURRENCE	09	11	18	06	20	24	19	30	01	25	17	10	NOV 17	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	47	44	43	49	45	52	55	46	36	36	58	36	58	
DIR. (TENS OF DEGS.)	28	28	01	25	22	24	31	32	24	22	26	22	26		
DATE OF OCCURRENCE	19	11	24	08	20	24	19	30	10	26	17	10	NOV 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.63	2.96	2.00	8.68	4.96	6.23	2.22	1.69	2.57	3.12	2.09	1.94	42.09	
	GREATEST 24-HOUR (IN.)	1.55	1.07	0.87	5.42	1.80	1.50	0.60	0.63	1.38	1.58	0.77	0.44	5.42	
	DATE OF OCCURRENCE	29-30	07	10	17-18	21-22	25-26	19-20	02	18-19	30-31	16-17	21-22	APR 17-18	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	13	9	14	15	16	10	9	7	10	12	18	144		
PRECIPITATION 0.10	6	8	3	8	10	10	4	4	6	6	5	6	76		
PRECIPITATION 1.00	1	1	0	2	2	1	0	0	0	1	0	0	8		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	2.6	16.1	10.4	0.1	0.0	0.0	0.0	0.0	0.0	T	0.9	14.2	44.3	
	GREATEST 24-HOUR (IN.)	1.1	4.8	9.2	0.1	0.0	0.0	0.0	0.0	0.0	T	0.5	4.0	9.2	
	DATE OF OCCURRENCE	25	26	05	19		27+				24+	25	14	MAR 05	
	MAXIMUM SNOW DEPTH (IN.)	0	5	10	0	0	0	0	0	0	0	T	5	10	
	DATE OF OCCURRENCE		27	06								26	16+	MAR 06	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	1	6	1	0	0	0	0	0	0	0	0	4	12		

# NORMALS, MEANS, AND EXTREMES CHICAGO (KORD)

**LATITUDE:**  
41° 59'N

**LONGITUDE:**  
87° 56'W

**ELEVATION (FT):**  
GRND: 662 BARO: 658

**TIME ZONE:**  
CENTRAL (UTC -6)

**WBAN: 94846**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	31.0	35.3	46.6	59.0	70.0	79.7	84.1	81.9	74.8	62.3	48.2	34.8	59.0
	MEAN DAILY MAXIMUM	55	30.0	34.3	45.9	58.8	70.1	79.5	83.9	82.1	74.9	62.8	48.3	34.8	58.8
	HIGHEST DAILY MAXIMUM	55	65	72	88	91	97	104	104	101	99	91	78	71	104
	YEAR OF OCCURRENCE		2008	2000	1986	1980	2012	1988	1995	1991	1985	1963	1978	1982	JUL 1995
	MEAN OF EXTREME MAXS.	55	50.4	54.5	71.9	81.2	87.6	93.0	95.0	93.1	89.8	81.6	68.2	56.0	76.9
	NORMAL DAILY MINIMUM	30	16.5	20.1	29.2	38.8	48.3	58.1	63.9	62.9	54.3	42.8	32.4	20.7	40.7
	MEAN DAILY MINIMUM	55	15.0	18.9	28.6	38.7	48.3	57.8	63.5	62.4	54.3	42.8	32.1	20.5	40.2
	LOWEST DAILY MINIMUM	55	-27	-19	-8	7	24	36	40	41	28	17	1	-25	-27
	YEAR OF OCCURRENCE		1985	1996	1962	1982	1966	1972	1965	1965	1974	1981	1976	1983	JAN 1985
	MEAN OF EXTREME MINS.	55	-6.7	-2.2	10.8	23.9	34.6	44.1	51.3	51.5	39.3	27.8	15.9	-0.7	24.1
	NORMAL DRY BULB	30	23.8	27.7	37.9	48.9	59.1	68.9	74.0	72.4	64.6	52.5	40.3	27.7	49.8
	MEAN DRY BULB	55	22.5	26.6	37.3	48.7	59.2	68.8	73.7	72.2	64.6	52.8	40.2	27.7	49.5
	MEAN WET BULB	30	21.3	24.2	32.6	41.3	51.1	60.5	65.4	64.6	57.3	46.1	35.4	25.3	43.8
	MEAN DEW POINT	30	19.1	21.9	29.8	38.1	48.4	58.3	63.5	63.0	55.1	43.8	33.2	23.1	41.4
NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.5	3.0	5.9	3.6	1.0	0.0	0.0	0.0	14.0	
MAXIMUM <= 32	30	16.1	10.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	11.4	42.7	
MINIMUM <= 32	30	28.0	24.0	19.6	6.3	0.3	0.0	0.0	0.0	0.1	3.5	14.0	26.0	121.8	
MINIMUM <= 0	30	3.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	7.0	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1279	1044	841	492	225	48	4	9	105	397	741	1155	6340
	NORMAL COOLING DEG. DAYS	30	0	0	1	9	44	165	283	238	92	11	0	0	843
<b>RH</b>	NORMAL (PERCENT)	30	75	74	70	66	66	67	69	72	71	70	73	76	71
	Hour 00 LST	30	77	78	76	73	75	77	79	82	81	77	77	79	78
	Hour 06 LST	30	79	80	80	78	78	79	82	86	86	82	81	81	81
	Hour 12 LST	30	69	66	61	56	54	56	56	58	57	57	65	70	60
	Hour 18 LST	30	74	71	65	58	55	56	58	63	63	64	70	75	64
<b>S</b>	PERCENT POSSIBLE SUNSHINE	16	44	49	51	50	58	67	66	62	59	55	38	43	54
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	1.7	1.6	1.9	0.6	1.0	0.5	0.3	0.4	0.5	0.6	0.9	1.8	11.8
	THUNDERSTORMS	55	0.5	0.5	2.1	3.9	5.3	6.5	6.1	5.9	3.9	1.8	1.0	0.5	38.0
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	38	5.5	5.4	5.8	5.5	5.0	4.7	4.4	4.4	4.5	4.7	5.7	5.6	5.1
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.3	5.0	5.1	5.0	4.5	4.3	4.0	4.0	4.2	4.3	5.4	5.5	4.7
	MEAN NO. DAYS WITH: CLEAR	38	6.8	6.0	4.9	6.0	7.2	7.3	8.0	8.6	8.5	8.6	5.2	5.7	82.8
	PARTLY CLOUDY	38	6.2	6.5	8.5	7.6	9.9	11.5	12.1	11.2	9.5	8.5	6.2	5.9	103.6
	CLOUDY	38	18.0	15.7	17.6	16.4	13.9	11.2	10.1	10.4	11.2	13.3	17.7	18.5	174.0
<b>PR</b>	MEAN STATION PRESSURE(IN)	30	29.33	29.34	29.31	29.22	29.24	29.24	29.27	29.30	29.32	29.32	29.32	29.34	29.30
	MEAN SEA-LEVEL PRES. (IN)	30	30.09	30.09	30.05	29.96	29.97	29.96	29.98	30.02	30.04	30.04	30.06	30.09	30.03
<b>WINDS</b>	MEAN SPEED (MPH)	30	11.1	11.0	11.2	11.3	10.0	8.8	8.3	7.9	8.4	9.7	10.7	10.5	9.9
	PREVAIL.DIR.(TENS OF DEGS)	45	28	27	05	03	03	21	24	24	19	20	20	27	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	37	41	41	47	43	55	48	46	37	43	43	48	55
	DIR. (TENS OF DEGS)		09	04	02	31	33	21	17	28	21	07	25	19	21
	YEAR OF OCCURRENCE		1999	2011	1998	2010	2004	2011	2005	2007	2010	1997	2013	2007	JUN 2011
	MAXIMUM 3-SECOND SPEED (MPH)	17	49	61	54	68	58	70	70	59	52	53	58	63	70
	DIR. (TENS OF DEGS)		18	05	23	32	34	20	25	25	21	23	26	20	25
YEAR OF OCCURRENCE		2008	2011	2004	2010	2004	2011	2012	2000	2010	2010	2013	2007	JUL 2012	
<b>PRECIPITATION</b>	NORMAL (IN)	30	1.73	1.79	2.50	3.38	3.68	3.45	3.70	4.90	3.21	3.15	3.15	2.25	36.89
	MAXIMUM MONTHLY (IN)	55	4.47	5.56	5.91	8.68	7.27	9.96	11.15	17.10	13.63	8.54	8.22	8.56	17.10
	YEAR OF OCCURRENCE		1999	1997	1976	2013	2011	1993	2011	1987	2008	2001	1985	1982	AUG 1987
	MINIMUM MONTHLY (IN)	55	0.10	0.12	0.63	0.74	0.30	.76	1.18	0.51	0.02	0.16	0.44	0.23	0.02
	YEAR OF OCCURRENCE		1981	1969	1981	2004	1992	2005	1977	1969	1979	1964	1999	1962	SEP 1979
	MAXIMUM IN 24 HOURS (IN)	55	2.00	3.78	2.39	5.42	3.45	3.97	8.21	9.35	6.83	4.62	2.99	4.53	9.35
	YEAR OF OCCURRENCE		1960	1997	1985	2013	1981	2009	2011	1987	2008	1969	1990	1982	AUG 1987
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.5	8.8	11.1	12.0	11.6	10.2	9.8	9.8	8.3	10.2	10.8	11.0	124.1
PRECIPITATION >= 1.00	30	0.1	0.3	0.4	0.8	0.8	0.9	1.0	1.5	0.8	0.6	0.8	0.3	8.3	
<b>SNOWFALL</b>	NORMAL (IN)	30	10.8	9.1	5.6	1.2	0.0	0.0	0.0	0.0	0.0	0.2	1.2	8.2	36.3
	MAXIMUM MONTHLY (IN)	54	34.3	29.0	24.7	11.1	1.6	T	T	T	T	6.6	10.4	35.3	35.3
	YEAR OF OCCURRENCE		1979	2011	1965	1975	1966	2011	1995	2008	2006	1967	1959	1978	DEC 1978
	MAXIMUM IN 24 HOURS (IN)	54	18.6	13.6	10.6	10.9	1.6	T	T	T	T	6.6	5.8	11.0	18.6
	YEAR OF OCCURRENCE'		1999	2011	1970	1975	1966	2011	1995	1989	1967	1967	1975	1969	JAN 1999
	MAXIMUM SNOW DEPTH (IN)	53	28	27	20	11	1	0	0	0	0	3	6	17	28
	YEAR OF OCCURRENCE		1979	1967	1965	1975	1966					1989	1975	2000	JAN 1979
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.7	2.7	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.4	2.5	11.4	

**PRECIPITATION (inches) 2013 CHICAGO (KORD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.15	1.39	3.00	4.11	4.49	2.02	3.19	2.10	3.84	3.15	2.64	2.92	34.00
1985	1.48	3.46	4.73	1.48	2.79	1.97	3.75	3.90	1.82	4.98	8.22	1.49	40.07
1986	0.39	2.58	1.49	1.85	3.11	3.49	4.30	1.15	7.12	3.75	1.41	1.09	31.73
1987	1.67	0.99	1.59	2.34	2.21	2.19	4.19	17.10	0.94	1.59	2.77	3.77	41.35
1988	1.88	1.29	2.15	2.08	1.19	1.05	2.74	3.29	3.79	5.05	6.45	2.40	33.36
1989	0.82	0.77	1.67	1.37	1.59	2.01	5.89	7.31	3.91	1.49	2.16	0.46	29.45
1990	1.97	2.25	3.09	1.79	6.85	4.50	2.25	7.75	1.03	4.10	5.60	1.94	43.12
1991	1.41	0.62	3.54	4.00	5.20	0.95	1.32	2.81	2.51	7.36	3.59	1.71	35.02
1992	0.87	1.39	2.67	2.21	0.30	1.35	3.77	3.56	4.31	1.79	5.41	2.49	30.12
1993	3.83	0.82	4.52	4.57	1.83	9.96	4.45	5.74	4.47	2.19	1.52	1.00	44.90
1994	1.77	2.56	1.09	2.20	0.58	6.09	1.62	4.05	1.04	3.23	3.75	1.61	29.59
1995	3.21	0.41	1.43	5.79	4.47	1.40	3.17	3.49	1.04	4.20	3.68	0.59	32.88
1996	1.58	0.71	0.95	2.59	6.95	4.80	3.95	1.45	2.73	2.32	1.48	1.21	30.72
1997	1.38	5.56	1.57	1.76	2.69	3.81	3.04	4.50	1.69	2.75	1.46	1.50	31.71
1998	2.67	1.70	4.29	3.56	3.02	2.90	1.75	6.88	2.34	5.22	2.00	1.20	37.53
1999	4.47	1.64	1.73	7.51	4.46	4.95	3.73	2.30	3.27	1.07	0.44	2.68	38.25
2000	1.35	1.97	1.18	5.15	4.02	4.32	3.58	2.26	3.59	1.12	2.71	2.11	33.36
2001	1.12	2.57	1.30	2.82	3.34	2.61	2.96	12.25	6.05	8.54	1.22	0.99	45.77
2002	1.20	0.96	2.73	3.00	4.39	4.61	2.68	8.06	1.72	1.60	1.04	1.93	33.92
2003	0.36	0.19	1.82	4.33	5.29	1.46	4.50	4.19	1.72	1.88	4.46	1.82	32.02
2004	0.91	0.71	2.68	0.74	7.22	2.82	2.66	5.30	0.26	2.85	4.28	1.15	31.58
2005	4.00	2.19	1.48	1.53	1.99	0.76	1.95	2.47	2.66	1.39	2.31	1.36	24.09
2006	2.76	1.80	2.73	3.60	3.65	4.05	3.70	2.95	5.85	4.04	3.65	3.18	41.96
2007	1.72	1.61	3.66	3.49	1.80	2.29	3.86	9.70	1.23	1.69	1.26	3.49	35.80
2008	1.93	3.53	2.63	2.72	4.10	4.18	4.76	3.73	13.63	2.07	1.81	5.77	50.86
2009	1.16	3.39	5.20	5.19	3.63	7.18	1.53	4.26	1.03	6.04	1.23	2.73	42.57
2010	1.13	1.64	1.55	3.01	4.90	6.17	8.84	1.80	2.78	0.93	2.51	2.35	37.61
2011	0.92	3.52	2.62	4.90	7.27	3.39	11.15	4.54	3.45	1.98	3.44	2.65	49.83
2012	1.86	1.64	2.68	1.65	4.38	0.90	3.66	2.07	1.76	3.15	0.95	2.21	26.91
2013	3.63	2.96	2.00	8.68	4.96	6.23	2.22	1.69	2.57	3.12	2.09	1.94	42.09
POR= 55 YRS	1.75	1.64	2.57	3.63	3.56	3.75	3.71	4.22	3.45	2.69	2.66	2.23	35.86

WBAN : 94846

**AVERAGE TEMPERATURE (°F) 2013 CHICAGO (KORD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	17.1	33.9	29.5	45.8	55.5	70.3	70.3	72.8	61.1	54.7	37.9	31.0	48.3
1985	14.4	20.4	39.4	52.6	60.2	63.6	71.4	69.2	65.4	52.5	37.8	17.0	47.0
1986	22.8	24.0	40.4	51.5	59.5	66.3	74.9	68.5	66.8	53.7	36.0	30.6	49.6
1987	25.9	33.9	40.8	50.6	63.4	72.4	76.7	71.9	65.1	47.3	43.9	32.2	52.0
1988	19.8	22.7	38.1	48.2	61.0	71.7	76.8	76.8	65.9	46.1	41.7	27.7	49.7
1989	32.4	19.6	36.6	46.8	57.8	67.5	73.9	71.4	62.0	54.0	37.7	17.4	48.1
1990	33.9	31.3	41.3	49.9	56.2	69.6	71.7	71.9	65.9	51.6	44.7	28.6	51.4
1991	20.8	31.0	40.4	52.0	65.6	71.9	75.5	73.6	63.7	53.2	35.2	30.3	51.1
1992	28.1	33.3	37.5	46.1	56.9	64.9	69.3	67.0	62.7	50.4	38.3	28.6	48.6
1993	26.2	24.4	34.2	45.0	59.7	66.4	74.3	73.3	59.2	49.5	38.7	29.8	48.4
1994	15.9	22.1	38.5	51.1	58.2	70.2	73.4	68.7	66.8	54.7	44.4	34.8	49.9
1995	24.0	26.5	40.2	46.0	58.8	72.3	77.6	79.0	62.5	53.7	32.8	26.3	50.0
1996	23.4	26.0	30.8	45.2	55.0	68.0	69.9	72.3	63.5	51.9	33.4	27.7	47.3
1997	19.3	29.0	37.9	45.2	53.8	68.3	73.2	69.5	64.2	53.2	36.4	31.5	48.5
1998	29.6	38.7	39.0	49.8	64.8	69.3	74.5	73.5	67.7	55.5	44.8	34.7	53.5
1999	22.6	34.0	35.6	49.6	61.7	70.4	78.4	70.3	63.4	52.9	45.1	29.9	51.2
2000	25.3	34.1	44.2	47.2	62.0	67.3	71.1	72.4	64.7	56.1	37.0	16.0	49.8
2001	24.6	26.1	34.2	52.5	60.0	67.4	74.6	73.2	61.9	52.1	48.2	33.4	50.7
2002	31.9	32.2	34.6	49.9	55.2	71.0	77.1	73.2	67.4	49.8	37.6	30.2	50.8
2003	21.3	23.6	36.7	48.3	56.3	65.5	72.4	73.6	63.4	51.8	41.9	31.6	48.9
2004	20.3	27.4	41.2	50.4	60.0	67.1	71.2	67.5	66.5	53.9	43.7	28.9	49.8
2005	24.5	32.5	35.1	51.6	57.1	74.2	75.6	74.3	69.4	55.2	42.0	23.4	51.2
2006	35.8	28.2	38.3	53.1	59.6	68.3	76.5	74.3	62.4	49.0	42.9	33.8	51.9
2007	27.9	18.0	42.5	46.8	63.8	71.4	73.7	74.8	68.1	59.0	39.4	27.9	51.1
2008	23.5	23.1	34.9	49.5	55.5	70.8	74.0	72.7	66.2	52.7	39.3	22.9	48.8
2009	15.9	28.3	39.6	47.3	59.9	67.6	69.4	70.5	65.4	48.9	45.4	26.5	48.7
2010	22.0	26.7	41.7	54.6	61.7	71.2	77.7	76.7	65.2	56.0	41.5	22.5	51.5
2011	20.6	26.2	36.3	47.7	57.9	69.5	79.0	73.5	62.2	54.9	44.9	35.2	50.7
2012	30.2	32.9	53.5	50.7	65.6	74.0	81.1	73.3	64.1	51.5	40.5	36.1	54.5
2013	26.6	26.1	32.6	46.9	61.0	68.5	73.2	73.0	67.2	53.1	37.5	23.3	49.1
POR= 55 YRS	22.5	26.6	37.3	48.7	59.2	68.8	73.7	72.2	64.6	52.8	40.2	27.7	49.5

**HEATING DEGREE DAYS (base 65°F) 2013 CHICAGO (KORD)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	19	1	189	320	807	1046	1563	1245	787	418	183	103	6681
1985-86	0	6	141	380	813	1480	1302	1142	765	417	202	74	6722
1986-87	3	29	64	343	863	1060	1205	866	742	432	162	14	5783
1987-88	4	19	74	541	629	1011	1396	1221	828	503	176	40	6442
1988-89	0	9	63	583	693	1149	1003	1265	882	540	261	43	6491
1989-90	0	5	131	344	813	1471	956	938	733	491	271	33	6186
1990-91	10	5	103	425	605	1120	1365	945	756	393	142	13	5882
1991-92	0	0	163	367	887	1066	1137	913	847	560	284	77	6301
1992-93	9	37	136	449	795	1122	1196	1133	948	595	184	69	6673
1993-94	0	3	185	479	784	1084	1516	1197	817	433	253	51	6802
1994-95	1	23	63	322	611	932	1262	1074	760	561	199	25	5833
1995-96	1	0	150	349	958	1193	1284	1124	1054	589	343	58	7103
1996-97	9	0	119	399	940	1148	1410	1003	832	587	344	53	6844
1997-98	9	4	77	406	852	1030	1091	732	813	449	87	69	5619
1998-99	0	0	35	289	598	933	1309	860	903	456	149	34	5566
1999-00	1	4	110	368	591	1081	1224	892	640	528	148	57	5644
2000-01	6	3	112	286	833	1512	1248	1085	948	374	205	88	6700
2001-02	5	0	128	394	496	973	1018	913	934	490	331	33	5715
2002-03	0	0	58	473	811	1072	1346	1152	868	507	267	71	6625
2003-04	0	0	117	404	686	1025	1379	1086	730	445	200	47	6119
2004-05	3	39	47	338	632	1113	1248	906	926	401	256	8	5917
2005-06	0	0	37	340	681	1281	896	1024	821	358	231	28	5697
2006-07	0	0	115	497	659	960	1141	1310	697	543	116	18	6056
2007-08	0	1	56	234	763	1146	1280	1211	926	461	290	4	6372
2008-09	3	0	50	387	766	1302	1516	1023	781	526	171	71	6596
2009-10	9	18	50	493	583	1188	1328	1067	715	329	184	6	5970
2010-11	0	0	70	286	698	1308	1371	1081	880	516	275	32	6517
2011-12	0	0	147	321	595	916	1071	923	390	427	103	14	4907
2012-13	0	0	107	415	728	887	1182	1083	994	542	193	43	6174
2013-	9	2	68	385	819	1283							

WBAN : 94846

**COOLING DEGREE DAYS (base 65°F) 2013 CHICAGO (KORD)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	5	11	184	190	254	77	8	0	0	729
1985	0	0	0	53	42	71	204	142	158	0	0	0	670
1986	0	0	7	17	37	118	318	145	123	3	0	0	768
1987	0	0	0	6	116	241	377	238	83	0	1	0	1062
1988	0	0	0	5	59	247	373	383	96	1	0	0	1164
1989	0	0	2	0	44	121	282	207	48	11	0	0	715
1990	0	0	7	43	8	179	226	224	137	11	1	0	836
1991	0	0	0	11	167	226	334	273	132	10	0	0	1153
1992	0	0	0	1	40	79	152	106	75	4	0	0	457
1993	0	0	0	0	28	118	294	266	19	5	0	0	730
1994	0	0	0	23	47	212	268	143	126	10	0	0	829
1995	0	0	0	0	13	254	398	445	81	8	0	0	1199
1996	0	0	0	0	41	154	166	235	79	2	0	0	677
1997	0	0	0	0	4	158	265	154	59	44	0	0	684
1998	0	0	13	0	88	205	301	267	123	5	0	0	1002
1999	0	0	0	0	52	201	422	176	70	2	2	0	925
2000	0	0	3	0	63	131	199	240	112	18	0	0	766
2001	0	0	0	7	58	168	309	262	44	1	0	0	849
2002	0	0	0	44	37	220	380	259	134	11	0	0	1085
2003	0	0	0	13	5	93	235	273	74	2	0	0	695
2004	0	0	0	13	55	118	203	121	100	5	0	0	615
2005	0	0	1	6	17	291	334	297	177	43	0	0	1166
2006	0	0	0	10	72	134	365	298	46	9	0	0	934
2007	0	0	6	3	85	215	279	313	154	56	0	0	1111
2008	0	0	0	0	5	187	290	246	90	10	0	0	828
2009	0	0	0	2	18	157	150	194	68	0	0	0	589
2010	0	0	0	23	89	200	401	371	82	15	0	0	1181
2011	0	0	0	5	61	171	444	271	70	14	0	0	1036
2012	0	0	39	4	128	291	506	263	90	3	0	0	1324
2013	0	0	0	8	76	156	268	257	143	25	0	0	933

## SNOWFALL (inches) 2013 CHICAGO (KORD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	T	6.6	18.9	13.3	0.3	T	0.0	0.0	39.1
1985-86	0.0	0.0	0.0	0.0	1.1	5.2	6.9	10.9	4.1	0.8	0.0	0.0	29.0
1986-87	0.0	0.0	0.0	T	3.8	0.4	17.3	T	4.7	T	0.0	0.0	26.2
1987-88	0.0	0.0	0.0	0.1	1.0	18.7	5.4	15.5	1.9	T	0.0	0.0	42.6
1988-89	0.0	0.0	0.0	T	0.9	5.0	0.4	15.1	2.0	0.6	0.5	0.0	24.5
1989-90	0.0	T	0.0	6.3	3.9	5.4	3.2	13.6	1.3	0.1	T	0.0	33.8
1990-91	0.0	0.0	0.0	T	T	3.2	11.1	3.3	5.9	T	0.0	0.0	23.5
1991-92	0.0	0.0	0.0	T	1.2	7.6	5.6	1.3	11.6	1.1	0.0	T	28.4
1992-93	T	0.0	0.0	0.3	0.2	5.7	15.2	8.0	13.8	3.7	0.0	0.0	46.9
1993-94	0.0	0.0	0.0	T	0.2	1.2	14.2	26.2	T	T	0.0	0.0	41.8
1994-95	0.0	0.0	0.0	0.0	T	7.0	13.1	0.4	3.5	0.1	0.0	0.0	24.1
1995-96	T	0.0	0.0	T	3.9	9.9	5.9	0.3	3.9	T	T	0.0	23.9
1996-97	0.0	0.0											
1997-98							11.0	T	8.2	0.0	0.0	T	
1998-99	0.0	0.0	0.0	0.0	0.2	1.0	29.6	1.9	18.2	0.0	0.0	0.0	50.9
1999-00	0.0	0.0	0.0	0.0	0.0	3.5	13.6	11.6	T	1.6	0.0	T	30.3
2000-01	0.0	0.0	0.0	T	0.1	30.9	1.5	2.2	4.2	0.3	T	T	39.2
2001-02	T	0.0	0.0	T	0.0	1.6	15.5	1.8	11.2	1.0	0.0	T	31.1
2002-03	0.0	0.0	0.0	0.0	4.7	8.0	4.3	1.5	7.1	3.0	0.0	0.0	28.6
2003-04	T	T	0.0	0.0	T	1.5	14.6	6.5	2.2	0.0	0.0	0.0	24.8
2004-05	0.0	0.0	0.0	0.0	5.1	0.6	27.8	2.7	3.2	T	T	0.0	39.4
2005-06	0.0	0.0	0.0	T	1.9	10.4	5.5	2.5	5.6	T	0.0	T	25.9
2006-07	0.0	0.0	T	0.3	0.4	5.8	3.5	20.3	2.3	3.0	0.0	0.0	35.6
2007-08	0.0	0.0	0.0	0.0	0.3	17.6	12.7	21.8	7.9	T	0.0	0.0	60.3
2008-09	0.0	T	0.0	T	0.6	21.9	21.5	4.5	2.1	2.1	0.0	0.0	52.7
2009-10	0.0	0.0	0.0	T	T	20.8	9.1	22.5	1.8	T	0.0	0.0	54.2
2010-11	0.0	0.0	0.0	0.0	T	16.2	11.1	29.0	1.0	0.6	T	T	57.9
2011-12	0.0	0.0	0.0	0.0	T	1.7	12.2	5.6	0.3	0.0	T	0.0	19.8
2012-13	0.0	0.0	0.0	0.0	T	0.9	2.6	16.1	10.4	0.1	0.0	0.0	30.1
2013-	0.0	0.0	0.0	T	0.9	14.2							
POR= 54 YRS	T	T	T	0.3	1.6	8.8	11.2	8.5	6.2	1.3	T	T	37.9

WBAN : 94846

### 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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: 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</p>	<p>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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
---	---

# 2013 CHICAGO ILLINOIS (KORD)

Chicago is located along the southwest shore of Lake Michigan and occupies a plain which, for the most part, is only some tens of feet above the lake. Lake Michigan averages 579 feet above sea level. Natural water drainage over most of the city would be into Lake Michigan, and from areas west of the city is into the Mississippi River System. But actual drainage over most of the city is artificially channeled also into the Mississippi system. Topography does not significantly affect air flow in or near the city except that lesser frictional drag over Lake Michigan causes winds to be frequently stronger along the lakeshore, and often permits air masses moving from the north to reach shore areas an hour or more before affecting western parts of the city.

Chicago is in a region of frequently changeable weather. The climate is predominately continental, ranging from relatively warm in summer to relatively cold in winter. However, the continentality is partially modified by Lake Michigan, and to a lesser extent by other Great Lakes. In late autumn and winter, air masses that are initially very cold often reach the city only after being tempered by passage over one or more of the lakes. Similarly, in late spring and summer, air masses reaching the city from the north, northeast, or east are cooler because of movement over the Great Lakes. Very low winter temperatures most often occur in air that flows southward to the west of Lake Superior before reaching the Chicago area. In summer the higher temperatures are with south or southwest flow and are therefore not influenced by the lakes, the only modifying effect being a local lake breeze. Strong south or southwest flow may overcome the lake breeze and cause high temperatures to extend over the entire city.

During the warm season, when the lake is cold relative to land, there is frequently a lake breeze that reduces daytime temperature near the shore, sometimes by 10 degrees or more below temperatures farther inland. When the breeze off the lake is light this effect usually reaches inland only a mile or two, but with stronger on-shore winds the whole city is cooled. On the other hand, temperatures at night are warmer near the lake so that 24-hour averages on the whole are only slightly different in various parts of the city and suburbs.

At the O'Hare International Airport temperatures of 96 degrees or higher occur in about half the summers, while about half the winters have a minimum as low as -15 degrees. The average occurrence of the first temperature as low as 32 degrees in the fall is mid-October and the average occurrence of the last temperature as low as 32 degrees in the spring is late April.

Precipitation falls mostly from air that has passed over the Gulf of Mexico. But in winter there is sometimes snowfall, light inland but locally heavy near the lakeshore, with Lake Michigan as the principal moisture source. The heavy lakeshore snow occurs when initially colder air moves from the north with a long trajectory over Lake Michigan and impinges on the Chicago lakeshore. In this situation the air mass is warmed and its moisture content increased up to a height of several thousand feet. Snowfall is produced by upward currents that become stronger, because of frictional effects, when the air moves from the lake onto land. This type of snowfall therefore tends to be heavier and to extend farther inland in south-shore areas of the city and in Indiana suburbs, where the angle between wind-flow and shoreline is greatest. The effect of Lake Michigan, both on winter temperatures and lake-produced snowfall, is enhanced by non-freezing of much of the lake during the winter, even though areas and harbors are often ice-choked.

Summer thunderstorms are often locally heavy and variable, parts of the city may receive substantial rainfall and other parts none. Longer periods of continuous precipitation are mostly in autumn, winter, and spring. About one-half the precipitation in winter, and about 10 percent of the yearly total precipitation, falls as snow. Snowfall from month to month and year to year is greatly variable. There is a 50 percent likelihood that the first and last 1-inch snowfall of a season will occur by December 5 and March 20, respectively.

Channeling of winds between tall buildings often causes locally stronger gusts in the central business area. However, the nickname, windy city, is a misnomer as the average wind speed is not greater than in many other parts of the U.S.

# Station History

CHICAGO, IL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
CHICAGO OHARE INTL AP	1972-12-01	1972-12-31	41° 58'	-87° 54'	658		AIRWAYS, COOP, WXSVC
CHICAGO OHARE INTL AP	1987-11-09	1989-01-01	41° 58'	-87° 54'	658		COOP, WXSVC
CHICAGO OHARE INTL AP	1985-03-11	1987-11-09	41° 58'	-87° 54'	658	.75 MI E	COOP, WXSVC
CHICAGO OHARE INTL AP	1958-10-30	1972-12-01	41° 58'	-87° 54'	658		AIRWAYS, COOP
CHICAGO OHARE INTL AP	1972-12-31	1985-03-11	41° 58'	-87° 54'	658		COOP, WXSVC
CHICAGO OHARE INTL AP	1996-02-01	2004-01-01	41° 59'	-87° 54'	658		ASOS, COOP, WXSVC
CHICAGO OHARE INTL AP	2013-01-01	Present	41° 59'	-87° 56'	662		ASOS, COOP, WXSVC
CHICAGO OHARE INTL AP	1989-01-19	1996-02-01	42° 00'	-87° 52'	658	1.2 MI NE	COOP, WXSVC
CHICAGO OHARE INTL AP	2004-03-30	2013-01-01	41° 59'	-87° 56'	658		ASOS, COOP, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1962-12-27	1970-10-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	2004-01-01	DAILY	2400	TEMPX		
PRECIP	1995-07-01	2004-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	2013-01-01	Present	HOURLY	2400	AWPAG	SHLD; RCRD; HTD	
PRECIP	1970-10-01	1989-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1958-10-30	1960-12-01	DAILY	2400	SRG		
TEMP	1960-12-01	1962-12-27	DAILY	2400	HYGR		
TEMP	1970-10-01	1989-01-01	DAILY	2400	HYGR		
PRECIP	2013-01-01	Present	DAILY	2400	PCPNX	SHLD	
PRECIP	1970-10-01	1989-01-01	HOURLY	2400			
TEMP	1989-01-19	1992-02-07	DAILY	2400	HYGR		
PRECIP	1995-07-01	2004-01-01	HOURLY	2400	UNIV	RCRD	
TEMP	2004-01-01	2013-01-01	DAILY	2400	TEMPX		
SNOWDPH	2013-01-01	Present	DAILY	2400	SNOWSTICK		
PRECIP	1960-12-01	1962-12-27	DAILY	2400	SRG		
PRECIP	1989-01-19	1992-02-07	DAILY	2400	UNIV	RCRD	
PRECIP	1992-02-07	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2004-01-01	2013-01-01	DAILY	2400	PCPNX		
PRECIP	1992-02-07	1995-07-01	HOURLY	2400			
PRECIP	2004-01-01	2013-01-01	HOURLY	2400	AHTB	RCRD; HTD	
TEMP	1958-10-30	1960-12-01	DAILY	2400	MXMN		
TEMP	1962-12-27	1970-10-01	DAILY	2400	HYGR		
PRECIP	1989-01-19	1992-02-07	HOURLY	2400			
TEMP	1992-02-07	1995-07-01	DAILY	2400	TEMPX		
TEMP	2013-01-01	Present	DAILY	2400	ATEMP		

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)