

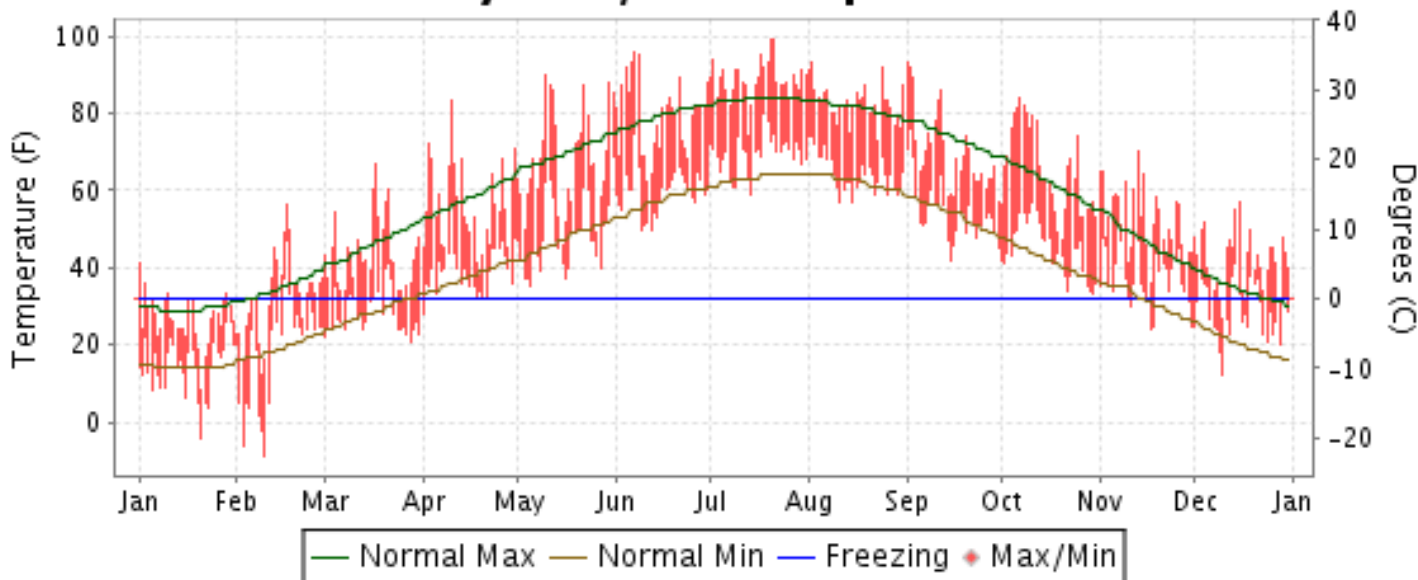


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

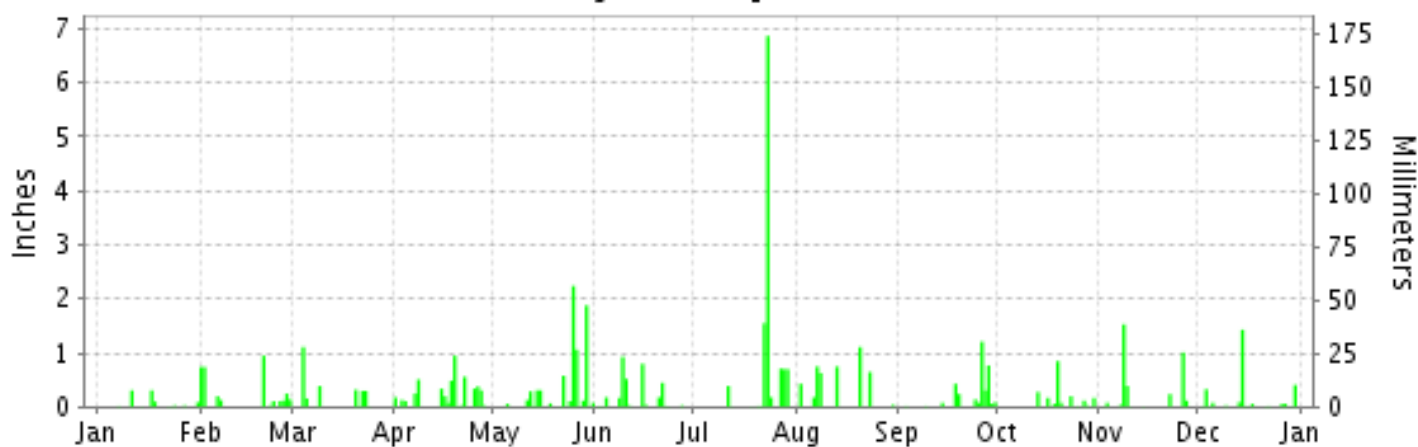
ISSN 0198-1846

CHICAGO, ILLINOIS (KORD)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

CHICAGO (KORD)

LATITUDE: 41° 59'N LONGITUDE: -87° 56'W ELEVATION (FT): GRND: 658 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	26.7	32.7	43.8	56.1	67.8	79.4	88.5	82.5	69.9	65.2	52.4	41.8	58.9	
	HIGHEST DAILY MAXIMUM	41	56	67	83	90	96	99	93	93	84	70	57	99	
	DATE OF OCCURRENCE	01	17	17	10	10	07	21+	02	01	07	13	15	JUL 21+	
	MEAN DAILY MINIMUM	14.5	19.6	28.8	39.3	48.0	59.5	69.5	64.4	54.4	44.6	37.4	28.6	42.4	
	LOWEST DAILY MINIMUM	-4	-9	21	28	35	50	59	57	42	33	24	12	-9	
	DATE OF OCCURRENCE	21	10	28	01	05	12+	14	15+	15	30	17	10	FEB 10	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	19.0	24.3	32.9	43.1	52.8	62.5	69.9	66.4	56.7	48.6	40.5	32.6	45.8	
	MEAN DEW POINT	13.7	19.4	27.4	38.1	47.9	57.6	64.5	62.2	52.2	42.4	34.3	27.3	40.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	4	12	3	2	0	0	0	0	22
MAXIMUM <= 32°	27	12	1	0	0	0	0	0	0	0	0	4	44		
MINIMUM <= 32°	31	25	24	4	0	0	0	0	0	0	7	22	113		
MINIMUM <= 0°	1	3	0	0	0	0	0	0	0	0	0	0	4		
H/C	HEATING DEGREE DAYS	1371	1081	880	516	275	32	0	0	147	321	595	916	6134	
	COOLING DEGREE DAYS	0	0	0	5	61	171	444	271	70	14	0	0	1036	
RH	MEAN (PERCENT)	75	75	72	73	72	67	63	70	71	65	69	73	70	
	HOUR 00 LST	78	79	78	78	79	75	74	81	78	74	72	76	77	
	HOUR 06 LST	81	80	81	83	84	81	76	84	83	81	75	79	81	
	HOUR 12 LST	68	68	63	64	63	58	53	56	61	50	63	66	61	
	HOUR 18 LST	71	74	69	66	64	58	49	61	65	59	65	71	64	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	0	0	1	1	0	0	0	0	0	1	4	
	THUNDERSTORMS	0	3	4	4	7	8	9	6	0	2	0	0	43	
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.)	29.31	29.29	29.38	29.10	29.18	29.19	29.23	29.19	29.27	29.27	29.26	29.37	29.25	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.04	30.12	29.83	29.91	29.90	29.94	29.91	29.99	29.99	30.00	30.11	29.98	
WINDS	RESULTANT SPEED (MPH)	4.2	1.6	3.5	0.7	2.8	1.3	0.7	1.2	2.3	2.6	2.7	4.2	1.0	
	RES. DIR. (TENS OF DEGS.)	28	26	04	03	04	18	18	30	33	28	23	24	29	
	MEAN SPEED (MPH)	9.5	11.0	9.8	11.8	10.4	9.0	7.4	6.7	8.7	8.0	11.8	9.2	9.4	
	PREVAIL.DIR.(TENS OF DEGS.)	31	27	06	06	02	04	05	19	35	28	20	20	02	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	41	31	33	31	55	47	38	33	32	37	30	55	
	DIR. (TENS OF DEGS.)	26	04	28	22	02	21	30	30	29	21	20	30	21	
	DATE OF OCCURRENCE	01	01	12	04	15	21	11	02	29	30	13	15	JUN 21	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	61	40	43	39	70	63	51	46	43	47	40	70	
DIR. (TENS OF DEGS.)	26	05	29	22	03	20	31	31	29	20	21	18	20		
DATE OF OCCURRENCE	01	01	12	04	26	21	11	02	29	30	13	03	JUN 21		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.39	1.47	1.21	0.96	3.18	1.19	8.21	1.11	1.28	0.91	1.53	1.52	8.21	
	DATE OF OCCURRENCE	17-18	01-02	04-05	19-20	25-26	09-10	22-23	20	25-26	19-20	08	13-14	JUL 22-23	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	10	11	9	17	15	14	11	8	12	10	10	15	142		
PRECIPITATION 0.10	3	10	6	13	10	7	7	7	6	6	5	3	83		
PRECIPITATION 1.00	0	0	1	0	3	0	2	1	1	0	2	1	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	11.1	29.0	1.0	0.6	T	T	0.0	0.0	0.0	0.0	T	1.7	43.4	
	GREATEST 24-HOUR (IN.)	5.9	13.6	0.7	0.6	T	T	0.0	0.0	0.0	0.0	T	1.2	13.6	
	DATE OF OCCURRENCE	11	01	05	18	22	09					28+	17	FEB 01	
	MAXIMUM SNOW DEPTH (IN.)	4	21	1	1	0	0	0	0	0	0	0	1	21	
	DATE OF OCCURRENCE	12	08	06	18								09	FEB 08	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	5	0	0	0	0	0	0	0	0	0	1	8		

NORMALS, MEANS, AND EXTREMES CHICAGO (KORD)

LATITUDE:
41° 59'N

LONGITUDE:
-87° 56'W

ELEVATION (FT):
GRND: 658 BARO: 658

TIME ZONE:
CENTRAL (UTC -6)

WBAN: 94846

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	29.6	34.7	46.1	58.0	69.9	79.2	83.5	81.2	73.9	62.1	47.1	34.4	58.3
	MEAN DAILY MAXIMUM	53	29.7	34.3	45.6	58.8	70.0	79.4	83.8	82.0	74.9	62.9	48.3	34.8	58.7
	HIGHEST DAILY MAXIMUM	53	65	72	88	91	93	104	104	101	99	91	78	71	104
	YEAR OF OCCURRENCE		2008	2000	1986	1980	1977	1988	1995	1991	1985	1963	1978	1982	JUL 1995
	MEAN OF EXTREME MAXS.	53	50.1	54.5	71.9	81.2	87.4	92.9	94.8	93.0	89.7	81.7	68.2	55.7	76.8
	NORMAL DAILY MINIMUM	30	14.3	19.2	28.5	37.6	47.5	57.2	63.2	62.2	53.7	42.1	31.6	20.4	39.8
	MEAN DAILY MINIMUM	53	14.8	18.7	28.4	38.7	48.2	57.7	63.3	62.3	54.2	42.8	32.1	20.4	40.1
	LOWEST DAILY MINIMUM	53	-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.	53	-7.0	-2.4	10.6	23.7	34.5	44.0	51.0	51.4	39.2	27.7	16.0	-0.9	24.0
	NORMAL DRY BULB	30	22.0	27.0	37.3	47.8	58.7	68.2	73.3	71.7	63.8	52.1	39.3	27.4	49.1
	MEAN DRY BULB	53	22.3	26.5	37.0	48.7	59.1	68.7	73.6	72.2	64.5	52.8	40.2	27.6	49.4
	MEAN WET BULB	28	21.3	24.3	32.7	41.7	51.3	60.9	65.6	65.0	57.6	46.4	35.9	25.5	44.0
	MEAN DEW POINT	28	18.6	21.5	29.2	37.7	47.9	58.0	63.2	62.9	54.9	43.5	33.0	22.7	41.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	*	0.8	3.8	7.2	4.3	1.7	*	0.0	0.0	17.8
	MAXIMUM <= 32	30	17.2	11.9	3.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	10.9	45.9
MINIMUM <= 32	30	28.5	24.1	20.4	7.5	0.6	0.0	0.0	0.0	0.2	4.5	16.1	26.6	128.5	
MINIMUM <= 0	30	5.8	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	10.9	
H/C	NORMAL HEATING DEG. DAYS	30	1333	1075	858	513	232	49	6	9	112	401	759	1151	6498
	NORMAL COOLING DEG. DAYS	30	0	0	1	9	48	159	279	233	91	10	0	0	830
RH	NORMAL (PERCENT)	30	75	74	70	66	66	67	69	72	71	70	73	76	71
	HOURLY 00 LST	30	77	78	76	73	75	77	79	82	81	77	77	79	78
	HOURLY 06 LST	30	79	80	80	78	78	79	82	86	86	82	81	81	81
	HOURLY 12 LST	30	69	66	61	56	54	56	56	58	57	57	65	70	60
	HOURLY 18 LST	30	74	71	65	58	55	56	58	63	63	64	70	75	64
S	PERCENT POSSIBLE SUNSHINE	16	44	49	51	50	58	67	66	62	59	55	38	43	54
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	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	53	0.4	0.5	2.2	3.9	5.3	6.5	6.1	6.0	4.0	1.7	1.0	0.5	38.1
CLOUDINESS	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
PR	MEAN STATION PRESSURE(IN)	28	29.34	29.34	29.31	29.22	29.24	29.25	29.27	29.31	29.32	29.32	29.31	29.34	29.30
	MEAN SEA-LEVEL PRES. (IN)	28	30.09	30.09	30.05	29.96	29.97	29.96	29.98	30.02	30.04	30.05	30.05	30.09	30.03
WINDS	MEAN SPEED (MPH)	28	11.2	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)	43	28	27	04	04	03	22	24	24	19	22	20	27	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	37	41	41	47	43	55	48	46	37	43	41	48	55
	DIR. (TENS OF DEGS)		09	04	02	31	33	21	17	28	21	07	23	19	21
	YEAR OF OCCURRENCE		1999	2011	1998	2010	2004	2011	2005	2007	2010	1997	1998	2007	JUN 2011
	MAXIMUM 3-SECOND SPEED (MPH)	15	49	61	54	68	58	70	63	59	52	53	57	63	70
	DIR. (TENS OF DEGS)		18	05	23	32	34	20	31	25	21	23	24	20	20
YEAR OF OCCURRENCE		2008	2011	2004	2010	2004	2011	2011	2000	2010	2010	1998	2007	JUN 2011	
PRECIPITATION	NORMAL (IN)	30	1.75	1.63	2.65	3.68	3.38	3.63	3.51	4.62	3.27	2.71	3.01	2.43	36.27
	MAXIMUM MONTHLY (IN)	53	4.47	5.56	5.91	7.69	7.27	9.96	11.15	17.10	13.63	8.54	8.22	8.56	17.10
	YEAR OF OCCURRENCE		1999	1997	1976	1983	2011	1993	2011	1987	2008	2001	1985	1982	AUG 1987
	MINIMUM MONTHLY (IN)	53	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)	53	2.00	3.78	2.39	2.78	3.45	3.97	8.21	9.35	6.83	4.62	2.99	4.53	9.35
	YEAR OF OCCURRENCE		1960	1997	1985	1983	1981	2009	2011	1987	2008	1969	1990	1982	AUG 1987
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.3	9.4	11.7	12.6	11.4	10.1	9.5	10.1	8.8	9.5	11.4	11.2	127.0
	PRECIPITATION >= 1.00	30	0.2	0.2	0.4	0.9	0.6	1.0	1.0	1.3	0.9	0.5	0.6	0.5	8.1
SNOWFALL	NORMAL (IN)	30	11.3	8.3	6.0	1.6	0.*	0.0	0.0	0.0	0.0	0.3	1.8	8.7	38.0
	MAXIMUM MONTHLY (IN)	52	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)	52	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)	51	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	3.5	2.7	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.6	2.6	11.9	

PRECIPITATION (inches) 2011 CHICAGO (KORD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	2.90	0.41	4.15	2.78	2.08	1.56	8.33	3.93	1.15	1.88	6.95	8.56	44.68
1983	0.66	2.06	3.56	7.69	6.26	4.11	4.25	2.08	5.41	4.41	5.87	2.99	49.35
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
POR= 53 YRS	1.71	1.61	2.58	3.57	3.52	3.76	3.74	4.31	3.50	2.68	2.71	2.23	35.92

WBAN : 94846

AVERAGE TEMPERATURE (°F) 2011 CHICAGO (KORD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	12.2	21.5	35.1	44.5	64.3	62.1	74.1	68.8	62.1	53.2	39.1	36.0	47.8
1983	26.3	30.5	37.4	43.4	53.2	69.7	76.7	77.3	64.6	52.8	41.1	14.3	48.9
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
POR= 53 YRS	22.3	26.5	37.0	48.7	59.1	68.7	73.6	72.2	64.5	52.8	40.2	27.6	49.4

HEATING DEGREE DAYS (base 65°F) 2011 CHICAGO (KORD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	7	37	152	372	772	891	1194	961	847	643	364	38	6278
1983-84	16	0	125	383	714	1568	1479	894	1095	575	300	18	7167
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-	0	0	147	321	595	916							

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COOLING DEGREE DAYS (base 65°F) 2011 CHICAGO (KORD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	0	79	38	295	161	69	14	0	0	656
1983	0	0	1	0	4	189	385	388	122	10	0	0	1099
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

SNOWFALL (inches) 2011 CHICAGO (KORD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.4	2.1	5.0	8.9	9.0	1.2	0.0	0.0	26.6
1983-84	0.0	0.0	0.0	0.0	1.0	16.5	17.2	1.9	9.7	2.7	0.0	0.0	49.0
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-	0.0	0.0	0.0	0.0	T	1.7							
POR= 52 YRS	T	T	T	0.3	1.6	8.8	11.3	8.5	6.3	1.4	T	T	38.2

WBAN : 94846

REFERENCE NOTES :

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).

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).

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.
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.

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 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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <https://mi3.ncdc.noaa.gov/mi3qry/login.cfm>
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

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.

2011 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	1985-03-11	1987-11-09	41° 58'	-87° 54'	658	.75 MI E	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	Present	41° 59'	-87° 56'	658		ASOS, 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	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

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
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	Present	DAILY	2400	PCPNX		
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	Present	DAILY	2400	TEMPX		
PRECIP	1962-12-27	1970-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	2004-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	2004-01-01	DAILY	2400	TEMPX		
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		
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	1992-02-07	1995-07-01	HOURLY	2400			
PRECIP	2004-01-01	Present	HOURLY	2400	AHTB	RCRD;HTD	

* 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>

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NOAA/National Climatic Data Center

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