



# DECEMBER 2002

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## CHICAGO, IL

OHARE INTERNATIONAL AIRPORT (ORD)

Lat: 41°59' N Long: 87°54' W Elev (Ground): 655 Feet

Time Zone: CENTRAL WBAN: 94846 ISSN #:0198-1854

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE		
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0600 LST	1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM							
																			5-SEC		2-MIN					
																			SPEED	DIR	SPEED	DIR				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
01	36	13	25	-8	10	21	40	0		0		0.0	0.00	29.20	29.95	11.3	23	12.0	29	21	22	22	01			
02	35	22	29	-3	22	27	36	0	SN FZFG BR	0		3.0	0.23	29.26	30.00	9.4	02	11.3	29	01	23	01	02			
03	24	14	19	-13	15	18	46	0	SN BR	3		2.5	0.05	29.80	30.57	1.0	31	4.7	23	07	18	06	03			
04	28	10	19*	-12	13	19	46	0		2		0.0	0.00	29.70	30.47	5.7	36	5.8	21	01	12	36	04			
05	24	15	20	-11	13	18	45	0	SHSN	1		T	T	29.48	30.24	8.9	30	10.4	28	36	17	26	05			
06	32	9	21	-10	14	19	44	0		1		0.0	0.00	29.38	30.14	10.2	23	10.5	29	23	20	22	06			
07	41	28	35	5	26	30	30	0	BR HZ	0		0.0	0.00	29.29	30.04	9.9	25	10.4	24	23	18	26	07			
08	30	13	22	-8	11	20	43	0		0		0.0	0.00	29.69	30.44	7.4	33	8.4	28	01	21	33	08			
09	31	8*	20	-10	10	19	45	0		0		0.0	0.00	29.65	30.42	5.9	22	6.0	20	22	15	22	09			
10	45	23	34	5	19	27	31	0		0		0.0	0.00	29.43	30.18	5.2	23	5.6	14	24	10	20	10			
11	45	19	32	3	17	27	33	0		0		0.0	0.00	29.33	30.07	3.3	21	3.5	12	22	9	22	11			
12	38	29	34	6	30	33	31	0	BR HZ	0		0.0	0.00	29.36	30.10	7.4	19	7.5	18	21	15	21	12			
13	39	33	36	8	33	36	29	0	BR HZ	0		0.0	0.00	29.19	29.93	3.7	02	6.4	20	36	14	01	13			
14	38	31	35	7	30	33	30	0	BR HZ	0		0.0	0.00	29.18	29.92	7.3	26	10.0	28	02	16	33	14			
15	45	31	38	11	30	35	27	0		0		0.0	0.00	29.13	29.87	5.8	35	10.8	26	02	22	02	15			
16	33	30	32	5	22	28	33	0		0		0.0	0.00	29.35	30.10	14.1	08	15.6	29	08	23	11	16			
17	37	30	34	7	27	31	31	0	TSRA RA DZ BR	0		0.0	0.07	29.26	30.00	16.3	11	16.5	29	11	25	12	17			
18	55	37	46	20	48	49	19	0	TSRA RA BR	0		0.0	1.41	28.95	29.68	18.4	17	19.0	48*	18	35*	17	18			
19	55	34	45	19	36	40	20	0	DZ BR HZ	0		0.0	T	28.90	29.62	10.5	26	11.0	23	26	18	19	19			
20	35	29	32	6	26	30	33	0	SN FG+ FZFG BR	0		T	0.02	28.80	29.53	17.1	26	17.3	38	27	28	29	20			
21	34	28	31	5	24	29	34	0	SN	0		T	T	29.00	29.74	12.6	26	13.0	36	29	28	28	21			
22	30	25	28	3	20	25	37	0		0		0.0	0.00	29.14	29.88	14.6	27	15.0	35	28	30	28	22			
23	34	22	28	3	17	24	37	0		0		0.0	0.00	29.33	30.08	11.7	27	12.1	29	29	22	27	23			
24	31	20	26	1	21	25	39	0	SN BR	0		0.5	0.06	29.18	29.93	8.9	02	9.5	26	05	22	05	24			
25	29	23	26	1	22	25	39	0	SN BR	2		2.0	0.08	29.23	29.97	11.4	32	12.7	24	32	20	33	25			
26	29	18	24	0	19	22	41	0	BR	2		0.0	0.00	29.53	30.29	8.6	24	9.3	23	28	18	28	26			
27	33	18	26	2	23	25	39	0	BR	1		0.0	0.00	29.45	30.21	7.8	22	7.9	18	23	14	22	27			
28	36	25	31	7	28	30	34	0	BR HZ	1		0.0	0.00	29.24	29.98	5.8	23	6.4	21	24	16	24	28			
29	40	22	31	7	29	32	34	0	BR HZ	0		0.0	0.00	29.25	29.99	7.8	14	8.3	22	14	18	14	29			
30	60*	37	49*	26	43	46	16	0	RA BR HZ	0		0.0	0.01	28.97	29.69	9.2	23	12.5	30	21	23	20	30			
31	41	28	35	12	21	29	30	0	HZ	0		0.0	0.00	29.27	30.00	6.4	32	7.8	20	31	17	31	31			
36.9 23.4 30.2 ■■										< MONTHLY AVERAGES TOTALS->				8.0	1.93	29.29	30.03	3.8	25	10.2	<- MONTHLY AVERAGES					
2.5 3.0 2.8 ■■										<-----DEPARTURE FROM NORMAL----->						- .50	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.48 DATE :17-18				SEA LEVEL PRESSURE DATE TIME													
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 3.0 DATE :02				MAXIMUM : 30.63 03 0956													
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 3 DATE :03				MINIMUM : 29.48 20 1256													
HEATING: 1072 -79 2415 -23									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 27				PRECIPITATION ≥ 0.01 INCH : 8									
COOLING: 0 0 1085 255									MAXIMUM TEMP ≤ 32 :10				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 2									
									THUNDERSTORMS : 2				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH : 3									

DECEMBER 2002  
CHICAGO, IL

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

CHICAGO, IL

DECEMBER 2002

ORD

WBAN # 94846

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.	
01													01												01			0.00	
02													02	0.02	T	T	T	T	T	T	0.02	0.01	T	T	T	02	0.19		0.23
03	T	T					T	0.01	0.01	0.02	0.06	0.06	03	T						T	T	T	T		03	0.03		0.05	
04													04												04			0.00	
05													05	T	T	T									05			T	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10													10												10			0.00	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14													14												14			0.00	
15													15												15			0.00	
16													16												16			0.00	
17													17						T	T					17			0.07	
18	0.09	T	0.17	0.01	0.02		T	0.01	0.01	0.02	0.19	0.02	18		0.01	T		0.04	0.09	0.16	0.02	T		T	18	0.86		1.41	
19													19												19			T	
20													20	T	0.02	T	T	T	T	T	T	T	T	T	20			0.02	
21													21												21			T	
22		T	T	T									22												22			0.00	
23													23												23			0.00	
24													24												24			0.06	
25	0.03	0.01	0.01	0.01	0.02	T							25	T	T	T	T	T	T	T	0.01	T	0.02	0.03	25			0.08	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30	0.01	T										30			0.01	
31													31												31			0.00	

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

\* = Extreme for the month (last occurrence if more than one)  
T = Trace precipitation amount  
+ = also occurs on earlier date  
FG+ = Heavy fog, visibility .25 miles or less  
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

## WEATHER NOTATIONS

**CHICAGO, IL  
DECEMBER 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ERRATA – OCT & NOV LCD – Change max temp Oct 19th to 52. Change max temp Nov 11th to 41 also add a "T" of snow day 16.

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## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

DECEMBER 2002

ORD

WBAN # 94846

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Oktas</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Oktas</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0660 DEC 01 SUNSET: 1621																													
03	CLR	NC			10.00	14	4	12	64	6	24	29.38	30.14	03	CLR	NC			7.00	29	24	27	82	12	22	29.23	29.97		
06	OVC	110			10.00	15	4	12	61	8	25	29.35	30.12	06	CLR	NC			7.00	29	25	28	85	10	24	29.25	30.00		
09	OVC	080			10.00	20	2	16	45	16	24	29.34	30.09	09	FEW	NC			6.00	31	26	29	82	13	25	29.29	30.03		
12	OVC	200			10.00	27	7	21	43	15	21	29.18	29.93	12	CLR	NC			10.00	38	26	33	62	14	26	29.29	30.02		
15	OVC	100			10.00	33	12	26	42	16	21	29.03	29.78	15	CLR	NC			10.00	41	26	35	55	14	26	29.28	30.02		
18	FEW	NC			10.00	35	16	29	46	10	22	29.05	29.80	18	CLR	NC			10.00	35	25	31	67	5	26	29.33	30.07		
21	FEW	NC			10.00	33	17	28	52	9	22	29.05	29.80	21	CLR	NC			10.00	33	26	30	75	6	29	29.35	30.10		
24	OVC	075			10.00	34	20	29	56	8	25	29.05	29.79	24	CLR	NC			10.00	30	25	28	82	8	29	29.39	30.14		
SUNRISE: 0701 DEC 02 SUNSET: 1621																													
03	OVC	060			10.00	34	23	30	64	0	00	29.06	29.80	03	CLR	NC			10.00	27	21	25	78	8	28	29.46	30.21		
06	OVC	060			10.00	34	22	30	61	7	04	29.06	29.79	06	FEW	NC			10.00	25	20	23	81	9	31	29.54	30.29		
09	OVC	008			1.50	33	31	32	92	13	02	29.12	29.85	09	FEW	NC			10.00	24	8	20	50	16	35	29.66	30.41		
12	OVC	006			0.50	28	27	28	96	12	35	29.18	29.92	12	FEW	NC			10.00	26	7	21	44	9	35	29.72	30.47		
15	OVC	021			10.00	27	19	24	72	23	36	29.28	30.02	15	FEW	NC			10.00	26	7	21	44	8	02	29.76	30.52		
18	OVC	030			10.00	25	15	22	66	13	01	29.39	30.14	18	FEW	NC			10.00	21	6	17	52	7	36	29.82	30.58		
21	OVC	015			2.00	26	24	25	92	12	07	29.54	30.29	21	BKN	035			10.00	16	6	14	65	6	33	29.83	30.60		
24	OVC	048			6.00	24	17	22	75	16	07	29.61	30.37	24	SCT	NC			10.00	15	5	13	64	3	31	29.81	30.58		
SUNRISE: 0702 DEC 03 SUNSET: 1621																													
03	BKN	041			10.00	22	9	18	57	6	07	29.68	30.44	03	CLR	NC			10.00	13	4	11	67	0	00	29.79	30.55		
06	OVC	045			10.00	17	16	17	96	6	VR	29.76	30.53	06	FEW	NC			10.00	10	6	9	84	5	25	29.77	30.53		
09	OVC	021			0.50	18	17	18	96	5	25	29.85	30.62	09	SCT	NC			10.00	20	10	17	65	6	22	29.78	30.54		
12	BKN	029			2.00	21	17	20	85	8	21	29.85	30.61	12	SCT	NC			10.00	27	14	23	58	8	20	29.66	30.42		
15	SCT	NC			10.00	21	14	19	74	5	26	29.83	30.59	15	BKN	250			10.00	30	11	24	45	9	23	29.58	30.34		
18	SCT	NC			10.00	17	14	16	88	0	00	29.84	30.61	18	CLR	NC			10.00	27	11	22	51	7	20	29.55	30.31		
21	OVC	037			10.00	19	17	18	92	6	32	29.85	30.61	21	BKN	250			10.00	28	12	23	51	7	22	29.52	30.28		
24	OVC	031			10.00	21	17	20	85	0	00	29.85	30.61	24	SCT	NC			10.00	29	11	24	47	9	23	29.48	30.24		
SUNRISE: 0703 DEC 04 SUNSET: 1621																													
03	CLR	NC			10.00	13	12	13	96	3	01	29.80	30.57	03	CLR	NC			10.00	27	15	23	61	7	23	29.48	30.24		
06	BKN	028			10.00	16	10	14	77	6	33	29.79	30.55	06	FEW	NC			10.00	23	12	20	63	6	22	29.48	30.24		
09	BKN	035			10.00	20	10	17	65	6	35	29.78	30.54	09	FEW	NC			10.00	30	16	26	56	7	25	29.48	30.23		
12	OVC	032			10.00	26	14	22	60	3	01	29.71	30.47	12	CLR	NC			10.00	41	22	34	47	7	22	29.43	30.18		
15	OVC	030			10.00	27	14	23	58	10	36	29.66	30.42	15	CLR	NC			10.00	44	24	36	45	7	24	29.37	30.12		
18	OVC	030			10.00	25	12	21	58	10	36	29.64	30.40	18	CLR	NC			10.00	35	23	31	61	3	21	29.38	30.14		
21	OVC	070			10.00	25	15	22	66	10	36	29.59	30.35	21	CLR	NC			10.00	28	22	26	78	6	21	29.35	30.11		
24	BKN	120			10.00	21	12	19	68	9	35	29.55	30.31	24	CLR	NC			10.00	23	17	21	78	0	00	29.35	30.10		
SUNRISE: 0704 DEC 05 SUNSET: 1621																													
03	OVC	036			10.00	22	14	20	71	10	34	29.53	30.29	03	CLR	NC			10.00	20	15	19	81	0	00	29.34	30.09		
06	OVC	036			10.00	21	14	19	74	10	33	29.52	30.28	06	SCT	NC			10.00	20	14	18	78	0	00	29.33	30.07		
09	SCT	NC			10.00	20	12	18	71	8	31	29.52	30.28	09	FEW	NC			10.00	30	20	27	66	0	00	29.34	30.09		
12	OVC	027			10.00	23	15	21	72	10	27	29.47	30.23	12	FEW	NC			10.00	42	18	33	38	8	25	29.32	30.05		
15	BKN	022			10.00	22	15	20	75	13	28	29.44	30.19	15	FEW	NC			10.00	44	17	34	34	6	22	29.30	30.03		
18	CLR	NC			10.00	20	13	18	74	10	28	29.43	30.19	18	CLR	NC			10.00	34	18	29	52	5	18	29.33	30.07		
21	CLR	NC			10.00	18	11	16	74	9	27	29.45	30.22	21	CLR	NC			10.00	34	17	28	50	6	20	29.33	30.08		
24	CLR	NC			10.00	15	8	13	74	9	26	29.45	30.21	24	CLR	NC			10.00	32	21	28	64	7	22	29.34	30.09		
SUNRISE: 0705 DEC 06 SUNSET: 1620																													
03	CLR	NC			10.00	11	7	10	84	8	25	29.46	30.22	03	OVC	028			10.00	30	25	28	82	5	20	29.34	30.09		
06	CLR	NC			10.00	10	8	10	92	8	26	29.46	30.23	06	OVC	034			7.00	34	30	32	85	6	19	29.36	30.11		
09	CLR	NC			8.00	15	11	14	84	8	24	29.48	30.24	09	OVC	036			6.00	36	31	34	82	7	19	29.38	30.13		
12	CLR	NC			10.00	25	16	22	69	10	23	29.41	30.17	12	OVC	038			7.00	33	29	31	85	12	19	29.38	30.13		
15	FEW	NC			10.00	30	17	26	59	14	23	29.35	30.11	15	OVC	042			6.00	37	31	35	79	8	18	29.34	30.08		
18	FEW	NC			10.00	29	17	25	61	9	21	29.30	30.05	18	OVC	040			7.00	38	32	36	79	9	19	29.37	30.12		
21	CLR	NC			10.00	31	16	26	54	15	22	29.26	30.01	21	OVC	038			7.00	37	33	35	86	3	17	29.34	30.07		
24	CLR	NC			9.00	29	23	27	78	13	23	29.23	29.98	24	OVC	038			5.00	36	33	35	89	6	20	29.34	30.09		

## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

DECEMBER 2002

ORD

WBAN # 94846

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0711 DEC 13 SUNSET: 1621						SUNRISE: 0715 DEC 19 SUNSET: 1623																							
03	OVC	038			4.00	BR	35	33	34	93	6	20	29.32	30.06	03	OVC	011			10.00	53	51	52	93	13	25	28.92	29.64	
06	OVC	038			4.00	BR	34	33	34	97	3	20	29.26	30.00	06	SCT	NC			7.00	43	38	41	82	9	26	28.97	29.69	
09	OVC	040			2.00	BR	37	33	35	86	7	14	29.24	29.97	09	FEW	NC		BR	5.00	40	36	38	86	9	25	28.98	29.71	
12	OVC	040			3.00	HZ	39	34	37	82	5	02	29.16	29.89	12	OVC	180			10.00	42	35	39	76	13	25	28.93	29.66	
15	OVC	011			3.00	HZ	38	33	36	83	8	04	29.12	29.85	15	OVC	025			10.00	42	33	38	71	10	25	28.84	29.57	
18	OVC	010			4.00	HZ	39	33	37	79	8	36	29.11	29.85	18	OVC	037			10.00	39	32	36	76	9	27	28.85	29.58	
21	OVC	034			4.00	HZ	39	34	37	82	8	36	29.14	29.87	21	OVC	036			10.00	39	32	36	76	14	26	28.81	29.53	
24	OVC	014			4.00	BR	37	33	35	86	9	36	29.14	29.87	24	OVC	042			10.00	35	32	34	89	13	26	28.78	29.51	
SUNRISE: 0712 DEC 14 SUNSET: 1621						SUNRISE: 0716 DEC 20 SUNSET: 1623																							
03	OVC	030			5.00	HZ	35	30	33	82	12	34	29.17	29.90	03	BKN	044			10.00	33	27	31	78	13	25	28.77	29.49	
06	OVC	009			4.00	BR	31	30	31	96	12	31	29.20	29.93	06	OVC	033			10.00	33	23	29	67	17	27	28.77	29.50	
09	OVC	009			4.00	BR	32	30	31	92	8	27	29.26	29.99	09	OVC	043			10.00	34	25	31	70	18	26	28.79	29.51	
12	OVC	007			4.00	BR	32	31	32	96	8	24	29.25	29.98	12	OVC	037			10.00	34	26	31	73	21	25	28.76	29.49	
15	BKN	250			6.00	HZ	38	30	35	73	9	22	29.18	29.91	15	OVC	042		-SN	9.00	33	26	30	75	20	26	28.79	29.52	
18	CLR	NC			8.00		35	29	33	78	9	22	29.18	29.92	18	OVC	049		-SN	9.00	32	25	29	75	21	26	28.84	29.57	
21	CLR	NC			7.00		34	30	32	85	13	24	29.14	29.88	21	OVC	019		-SN	9.00	31	27	29	85	16	25	28.85	29.59	
24	CLR	NC			7.00		33	30	32	89	12	23	29.09	29.83	24	BKN	036			10.00	29	22	27	75	18	27	28.88	29.62	
SUNRISE: 0712 DEC 15 SUNSET: 1621						SUNRISE: 0716 DEC 21 SUNSET: 1624																							
03	SCT	NC			9.00		35	29	33	78	9	24	29.06	29.80	03	BKN	046		-SN	9.00	31	22	28	69	18	28	28.91	29.65	
06	CLR	NC			10.00		35	30	33	82	8	26	29.05	29.79	06	OVC	032			10.00	31	24	28	76	22	27	28.95	29.69	
09	SCT	NC			10.00		38	31	35	76	8	28	29.08	29.82	09	OVC	034			10.00	31	22	28	69	17	28	29.03	29.77	
12	BKN	150			10.00		44	31	39	60	7	32	29.08	29.81	12	SCT	NC			10.00	32	22	28	66	18	27	29.04	29.78	
15	SCT	NC			10.00		42	32	38	68	10	04	29.11	29.84	15	BKN	200			10.00	32	24	29	73	18	26	29.05	29.79	
18	OVC	027			10.00		38	32	36	79	12	03	29.19	29.93	18	BKN	250			10.00	31	25	29	79	7	24	29.04	29.78	
21	OVC	027			10.00		36	29	33	76	15	02	29.26	29.99	21	OVC	180			10.00	31	26	29	82	7	25	29.05	29.79	
24	OVC	028			10.00		31	22	28	69	18	01	29.31	30.05	24	OVC	150			10.00	30	25	28	82	8	31	28.97	29.71	
SUNRISE: 0713 DEC 16 SUNSET: 1622						SUNRISE: 0717 DEC 22 SUNSET: 1624																							
03	OVC	027			10.00		31	22	28	69	14	05	29.32	30.05	03	CLR	NC			10.00	26	21	24	81	9	28	29.01	29.75	
06	BKN	026			10.00		31	22	28	69	14	06	29.33	30.07	06	SCT	NC			10.00	26	22	25	84	12	28	29.03	29.77	
09	BKN	250			10.00		30	23	28	75	22	08	29.36	30.11	09	OVC	028			10.00	29	19	26	66	18	29	29.11	29.85	
12	BKN	150			10.00		32	22	28	66	16	09	29.35	30.10	12	OVC	027			10.00	29	20	26	69	22	27	29.14	29.88	
15	OVC	150			10.00		32	22	28	66	8	09	29.36	30.11	15	OVC	025			10.00	29	21	26	72	18	27	29.18	29.93	
18	FEW	NC			10.00		31	22	28	69	14	10	29.36	30.11	18	FEW	NC			10.00	28	19	25	69	20	26	29.25	30.00	
21	OVC	060			10.00		32	23	29	69	20	11	29.38	30.13	21	CLR	NC			10.00	28	20	25	72	15	26	29.26	30.01	
24	OVC	070			10.00		30	22	27	72	15	12	29.36	30.11	24	FEW	NC			10.00	27	21	25	78	15	26	29.25	30.00	
SUNRISE: 0714 DEC 17 SUNSET: 1622						SUNRISE: 0717 DEC 23 SUNSET: 1625																							
03	OVC	065			10.00		30	23	28	75	14	12	29.36	30.11	03	FEW	NC			10.00	25	19	23	78	16	26	29.28	30.02	
06	OVC	022			10.00		30	24	28	79	18	10	29.35	30.10	06	OVC	024			10.00	26	19	24	75	15	26	29.30	30.04	
09	OVC	018			10.00		32	25	29	75	16	10	29.34	30.10	09	CLR	NC			10.00	26	19	24	75	14	27	29.34	30.08	
12	OVC	016			10.00		34	27	31	76	16	12	29.28	30.02	12	FEW	NC			10.00	32	9	25	38	12	29	29.33	30.07	
15	OVC	018			10.00		35	27	32	72	15	10	29.21	29.95	15	SCT	NC			10.00	32	14	26	47	16	27	29.34	30.08	
18	OVC	017			9.00		35	29	33	78	20	11	29.19	29.93	18	BKN	250			10.00	29	15	25	56	13	28	29.36	30.12	
21	OVC	007			4.00	BR	34	32	33	92	17	11	29.18	29.91	21	BKN	250			10.00	25	17	23	72	3	24	29.38	30.14	
24	OVC	005			3.00	-TSRA BR	37	33	35	86	14	13	29.09	29.83	24	SCT	NC			10.00	23	17	21	78	5	33	29.36	30.12	
SUNRISE: 0714 DEC 18 SUNSET: 1622						SUNRISE: 0718 DEC 24 SUNSET: 1625																							
03	OVC	005			2.50	RA	43	33	39	68	14	14	29.03	29.76	03	CLR	NC			10.00	22	15	20	75	8	34	29.34	30.10	
06	OVC	023			8.00		49	48	48	97	21	17	28.99	29.72	06	CLR	NC			10.00	21	13	19	71	6	36	29.32	30.07	
09	OVC	023			5.00	-RA BR	51	49	50	92	30	17	29.01	29.74	09	OVC	150			10.00	23	16	21	74	9	36	29.27	30.02	
12	OVC	019			3.00	BR	50	48	49	93	16	16	28.93	29.66	12	OVC	032			10.00	30	23	28	75	9	02	29.19	29.93	
15	OVC	150			10.00		54	51	52	90	20	18	28.87	29.59	15	OVC	018		-SN	9.00	30	26	29	85	12	02	29.13	29.87	
18	OVC	017			3.00	+TSRA BR	52	51	52	97	25	17	28.91	29.64	18	OVC	020		-SN	8.00	28	26	27	92	13	36	29.08	29.83	
21	OVC	018			10.00		54	52	53	93	14	18	28.90	29.62	21	OVC	020		-SN BR	2.00	29	26	28	89	14	04	29.02	29.76	
24	OVC	013			10.00		55	52	53	90	17	19	28.88	29.60	24	OVC	011		-SN BR										

## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

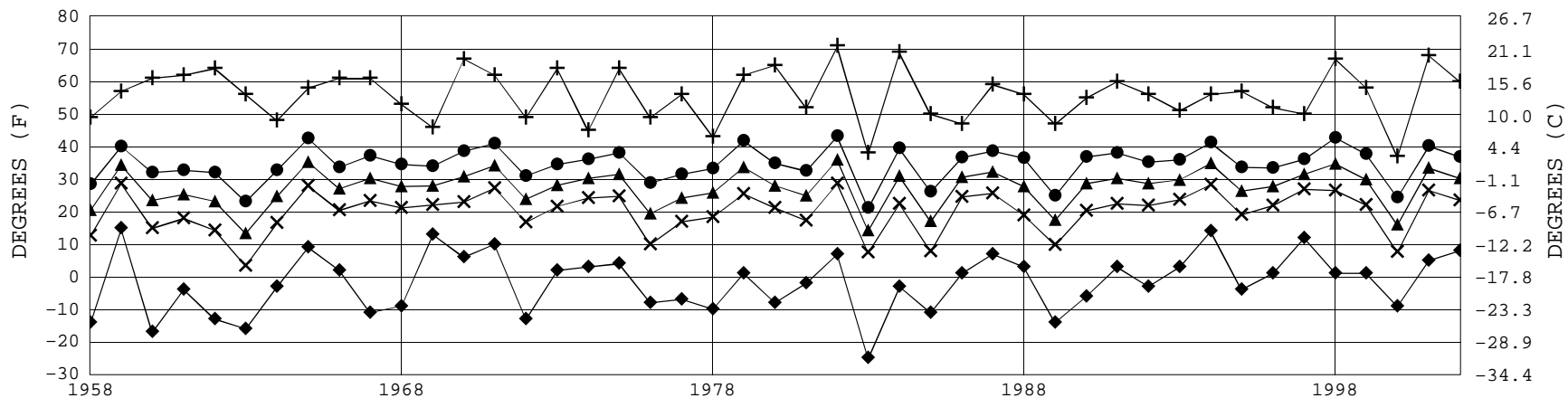
DECEMBER 2002

ORD

WBAN # 94846

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)							
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
SUNRISE: 0718 DEC 25						SUNSET: 1626						SUNRISE: 0719 DEC 31																SUNSET: 1630					
03	OVC	018		2.00	-SN BR	27	27	27	100	9	35	29.03	29.77	03	BKN	200		10.00		34	26	31	73	13	29	29.22	29.95						
06	OVC	021		3.00		26	24	25	92	16	33	29.08	29.82	06	OVC	200		10.00		32	21	28	64	10	31	29.24	29.96						
09	OVC	013		10.00		26	23	25	88	15	32	29.18	29.92	09	BKN	200		10.00		30	20	27	66	8	29	29.30	30.03						
12	OVC	035		10.00		29	23	27	78	15	31	29.21	29.96	12	FEW	NC		10.00		36	20	30	52	5	31	29.26	30.00						
15	OVC	023		10.00		28	20	25	72	13	31	29.28	30.02	15	FEW	NC		10.00		40	18	32	41	3	32	29.26	29.99						
18	OVC	021		10.00		26	20	24	78	12	30	29.34	30.09	18	BKN	150		10.00		34	20	29	56	7	35	29.31	30.05						
21	OVC	015		10.00		24	20	23	84	14	29	29.41	30.16	21	OVC	150		10.00		30	18	26	61	3	03	29.30	30.04						
24	OVC	013		8.00		23	21	22	92	12	26	29.43	30.19	24	SCT	NC		10.00		28	18	25	66	9	01	29.32	30.06						
SUNRISE: 0718 DEC 26						SUNSET: 1626						3-HOURLY OBSERVATION NOTES																					
03	OVC	009		10.00		24	22	23	91	13	27	29.47	30.23	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,																			
06	BKN	011		8.00		21	18	20	88	7	27	29.50	30.26	SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visiblity = 8/8.																			
09	FEW	NC		6.00	BR	20	18	19	92	7	23	29.57	30.33	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																			
12	CLR	NC		10.00		26	18	23	71	14	25	29.55	30.30	NC= No ceiling detected.																			
15	CLR	NC		10.00		27	20	25	75	10	24	29.54	30.29	& = Original observation contained additional weather elements.																			
18	CLR	NC		10.00		23	20	22	88	8	21	29.54	30.30	See page 3 for additional notes.																			
21	BKN	250		9.00		21	17	20	85	7	22	29.55	30.31																				
24	SCT	NC		8.00		20	14	18	78	7	22	29.53	30.29																				
SUNRISE: 0719 DEC 27						SUNSET: 1627						SUMMARY BY HOUR																					
03	SCT	NC		7.00		21	17	20	85	6	21	29.53	30.29																				
06	FEW	NC		8.00		19	17	18	92	7	21	29.51	30.27																				
09	BKN	250		6.00	BR	22	20	21	92	7	22	29.51	30.27																				
12	FEW	NC		7.00		31	24	28	76	8	22	29.45	30.21																				
15	BKN	090		8.00		32	27	30	82	7	22	29.42	30.17																				
18	FEW	NC		9.00		29	25	28	85	8	22	29.40	30.16																				
21	OVC	010		7.00		30	28	29	92	9	22	29.39	30.14																				
24	OVC	017		6.00	BR	30	28	29	92	9	22	29.34	30.10																				
SUNRISE: 0719 DEC 28						SUNSET: 1628																											
03	OVC	006		4.00	BR	29	28	29	96	8	25	29.32	30.06																				
06	OVC	004		3.00	BR	29	28	29	96	6	23	29.30	30.04																				
09	OVC	005		2.50	BR	29	28	29	96	7	19	29.22	29.96																				
12	OVC	130		5.00	BR	33	31	32	92	8	20	29.15	29.89																				
15	OVC	014		5.00	BR	33	29	31	85	8	24	29.15	29.89																				
18	OVC	250		5.00	BR	31	29	30	92	0	00	29.22	29.96																				
21	BKN	250		4.00	BR	26	25	26	96	6	25	29.27	30.02																				
24	CLR	NC		4.00	BR	29	28	29	96	3	32	29.29	30.03																				
SUNRISE: 0719 DEC 29						SUNSET: 1629																											
03	BKN	150		3.00	BR	26	26	26	100	3	22	29.32	30.06																				
06	SCT	NC		3.00	BR	27	26	27	96	0	00	29.33	30.08																				
09	BKN	250		4.00	BR	32	30	31	92	12	15	29.36	30.12																				
12	BKN	250		4.00	HZ	38	30	35	73	12	15	29.31	30.05																				
15	BKN	250		4.00	HZ	38	31	35	76	12	10	29.24	29.98																				
18	BKN	250		6.00	HZ	36	31	34	82	13	14	29.20	29.94																				
21	BKN	250		7.00	HZ	35	31	33	85	13	15	29.12	29.86																				
24	OVC	043		6.00	HZ	40	35	38	83	6	17	29.04	29.78																				
SUNRISE: 0719 DEC 30						SUNSET: 1629																											
03	OVC	032		7.00		44	33	39	65	9	18	29.00	29.73																				
06	OVC	008		6.00	BR	46	43	44	88	13	18	28.93	29.66																				
09	OVC	004		2.00	BR	50	49	49	96	15	20	28.92	29.65																				
12	OVC	011		6.00	BR	57	53	55	87	15	21	28.87	29.60																				
15	OVC	070		10.00		60	55	57	84	16	22	28.86	29.58																				
18	BKN	250		10.00		53	45	49	74	13	28	28.96	29.69																				
21	SCT	NC		10.00		42	36	39	79	12	29	29.07	29.80																				
24	BKN	200		8.00		37	29	34	73	9	30	29.16	29.88																				

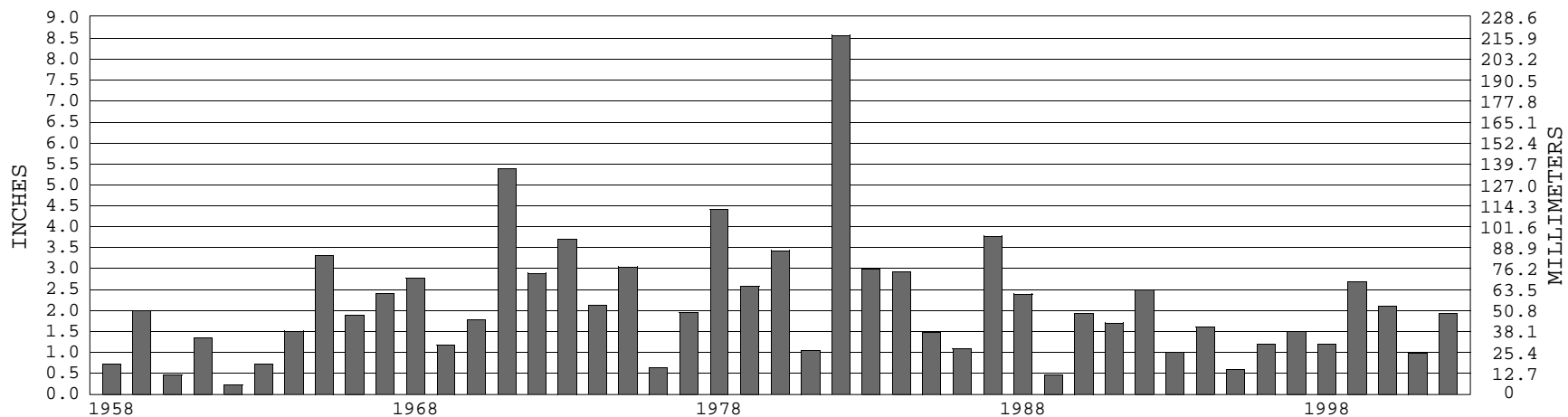
# CHICAGO, IL DECEMBER TEMPERATURES



+ Extreme Max.    ● Mean Max.    ▲ Mean    × Mean Min.    ◆ Extreme Min.

Long-Term (1958-2002) Mean: 27.5    1961-1990 Normal: 27.4

# CHICAGO, IL DECEMBER PRECIPITATION



Long-Term (1958-2002) Mean Monthly Total: 2.14

1961-1990 Normal: 2.43



DECEMBER 2002

CHICAGO, IL

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

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