



NOVEMBER 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	40	25	33	-12	20	28	32	0	BR RA DZ BR HZ	0		0.0	0.00	29.49	30.23	12.1	28	12.4	25	26	20	27	01					
02	48	28	38	-7	23	31	27	0		0		0.0	0.00	29.37	30.12	9.3	28	9.5	22	28	17	29	02					
03	47	24	36	-9	28	33	29	0		0		0.0	0.00	29.32	30.06	6.8	24	7.0	22	24	17	24	03					
04	46	31	39	-5	30	35	26	0		0		0.0	0.00	29.35	30.09	0.7	33	6.8	25	06	13	33	04					
05	41	34	38	-6	35	37	27	0		0		0.0	0.12	29.11	29.84	0.8	15	6.9	14	14	14	14	05					
06	43	36	40	-3	34	37	25	0	BR HZ	0		0.0	0.00	29.23	29.97	9.9	29	10.5	23	29	18	29	06					
07	58	29	44	1	36	42	21	0	BR HZ	0		0.0	0.00	29.24	29.97	10.1	21	10.9	33	21	24	21	07					
08	63	48	56	14	37	47	9	0		0		0.0	0.00	28.95	29.67	15.7	21	15.9	30	21	23	21	08					
09	63*	53	58*	16	53	55	7	0	RA	0		0.0	0.08	28.78	29.49	14.7	20	15.1	30	20	22	20	09					
10	62	40	51	9	53	55	14	0	RA BR HZ	0		0.0	T	28.65	29.36	9.2	26	10.9	24	21	18	29	10					
11	40	36	38	-3	35	37	27	0	RA BR	0		0.0	0.04	29.19	29.92	5.4	28	8.2	21	25	18	26	11					
12	43	36	40	-1	30	36	25	0		0		0.0	0.00	29.45	30.19	7.0	25	8.1	20	27	16	24	12					
13	56	35	46	6	34	42	19	0		0		0.0	0.00	29.28	30.01	8.8	23	9.7	28	21	22	21	13					
14	55	39	47	7	38	43	18	0	RA DZ BR	0		0.0	0.17	29.15	29.88	2.7	30	9.3	25	04	17	25	14					
15	40	36	38	-2	29	35	27	0	RA DZ HZ	0		0.0	T	29.37	30.11	10.8	05	11.6	25	07	18	04	15					
16	36	31	34	-5	26	31	31	0	SN BR	0		0.0	0.01	29.45	30.19	9.1	03	10.5	25	04	15	02	16					
17	39	24	32	-7	26	30	33	0	SN BR	1		1.0	0.03	29.33	30.08	6.2	34	6.9	24	02	14	01	17					
18	45	24	35	-3	30	34	30	0	RA BR	0		0.0	0.18	29.28	30.02	5.0	18	7.3	18	17	16	16	18					
19	54	33	44	6	34	39	21	0	RA BR HZ	0		0.0	T	29.28	30.02	9.2	24	9.9	23	23	18	24	19					
20	51	37	44	7	34	40	21	0		0		0.0	0.00	29.23	29.96	4.3	23	4.6	17	22	14	21	20					
21	43	34	39	2	33	37	26	0	RA SN BR	0		T	0.22	29.09	29.82	11.5	34	13.4	33	01	26	35	21					
22	37	24	31	-6	25	30	34	0		0		0.0	0.00	29.31	30.05	8.4	33	10.0	24	02	20	33	22					
23	47	30	39	3	29	34	26	0		0		0.0	0.00	29.22	29.96	8.1	25	9.8	24	23	18	28	23					
24	38	26	32	-4	24	30	33	0	SN BR	0		0.9	0.05	29.42	30.16	7.0	32	8.0	20	02	14	34	24					
25	31	20	26	-9	18	23	39	0		1		0.0	0.00	29.59	30.35	7.4	32	7.5	18	01	14	32	25					
26	29	20	25	-10	22	24	40	0	SN FG+ FZFG BR	0		2.8	0.14	29.62	30.38	6.9	33	7.5	23	36	15	33	26					
27	30	14*	22*	-12	17	21	43	0	BR	2		0.0	0.00	29.60	30.36	5.1	28	5.8	15	29	13	30	27					
28	33	15	24	-10	20	24	41	0	BR HZ	2		0.0	0.00	29.36	30.11	8.2	23	8.4	21	24	15	23	28					
29	46	33	40	6	29	36	25	0		1		0.0	0.00	28.79	29.51	14.1	26	14.7	31	25	23	26	29					
30	40	17	29	-4	15	23	36	0	SN BR	0		T	T	29.11	29.85	18.0	31	18.5	38*	32	33*	32	30					
44.8 30.4 37.6 ■■										< MONTHLY AVERAGES TOTALS->			4.7	1.04	29.25	29.99	5.1	27	9.9	<- MONTHLY AVERAGES								
-2.3 -1.2 -1.7 ■■										<-----DEPARTURE FROM NORMAL----->										-1.97	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.22 DATE :21				SEA LEVEL PRESSURE DATE TIME															
MONTHLY TOTAL DEPARTURE 812 53									GREATEST 24-HR SNOWFALL: 2.8 DATE :26				MAXIMUM : 30.43 25 2256															
SEASON TO DATE TOTAL DEPARTURE 1085 255									GREATEST SNOW DEPTH: 2 DATE :28+				MINIMUM : 29.25 10 0456															
HEATING: 812 53									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 16				PRECIPITATION ≥ 0.01 INCH : 10											
COOLING: 0 0									MAXIMUM TEMP ≤ 32 : 3				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 5											
									THUNDERSTORMS : 0				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH : 2											

NOVEMBER 2002
CHICAGO, IL

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

CHICAGO, IL

NOVEMBER 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	0.13	0.00	
02													02												02		0.00	
03													03												03		0.00	
04													04												04		0.00	
05								T	0.06	0.02	T	0.01	05	0.01	T	T	0.01	0.01	T	T					05		0.12	
06													06												06		0.00	
07													07												07		0.00	
08													08					T	T	T	T	T	0.08		08		0.00	
09													09												09		0.08	
10												T	10	T	T										10		T	
11										T	0.01	T	0.01	11	0.02	T									11		0.04	
12													12												12		0.00	
13													13												13		0.00	
14													14												14		0.17	
15	T				T	T	T						15	T	T	0.03	0.02	0.02	0.03	0.04	0.02	T	0.01	T	T		15	T
16													16												16		0.01	
17	T	T	T	T	0.02	0.01	T	T			T	T	17	T	T	T	T		T	0.01	T	T	T	T	17		0.03	
18													18						T	T	T	0.06	0.06	0.05	0.01		18	0.18
19	T	T											19												19		T	
20													20												20		0.00	
21													21	0.06	0.03	T	0.01	T							21		0.22	
22						T	0.01	0.04	0.01	0.01	0.01	0.04	22												22		0.00	
23													23												23		0.00	
24													24				T	T	0.03	0.01	0.01	T	T	T	24		0.05	
25													25												25		0.00	
26													26	0.01	0.04	0.02	0.01	T							26		0.14	
27									T	0.01	0.01	0.03	27												27		0.00	
28													28												28		0.00	
29													29												29		0.00	
30				T	T	T	T	T	T				30			T	T	T	T						30		T	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.05	.07	.08	.08	.08	.08	.08	.10	.12	.13	.16	.18
Ending Date	09	09	09	09	09	09	18	18	18	18	18	18
Ending Time (Hour/Min)	2124	2124	2126	2126	2126	2126	2147	2206	2222	2222	2259	2259

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
NOVEMBER 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).

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.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							7.00	10.00	
04							4.00	10.00	
05							2.50	7.00	
06							6.00	10.00	
07							2.50	10.00	
08							10.00	10.00	
09							7.00	10.00	
10							2.50	10.00	
11							2.00	10.00	
12							7.00	10.00	
13							10.00	10.00	
14							3.00	10.00	
15							5.00	10.00	
16							3.00	10.00	
17							1.25	10.00	
18							3.00	10.00	
19							3.00	10.00	
20							10.00	10.00	
21							3.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							1.00	10.00	
25							10.00	10.00	
26							.25	10.00	
27							5.00	10.00	
28							5.00	10.00	
29							10.00	10.00	
30							2.50	10.00	
MONTHLY AVGS							5.59	9.90	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> Percent Possible:</p>									
<p align="center">NUMBER OF DAYS WITH:</p> <p align="center">SKY CONDITION</p> <p align="center">CLR PTLY CLDY CLOUDY MISSING</p> <p align="center"> 30</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">0 13 12</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

NOVEMBER 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: 0624	NOV 01			SUNSET: 1646										SUNRISE: 0632	NOV 07			SUNSET: 1639								
03	CLR	NC			10.00		28	21	26	75	10	29	29.47	30.22	03	BKN	044			7.00		39	34	37	82	0	00	29.36	30.10		
06	CLR	NC			10.00		26	22	25	84	10	29	29.51	30.25	06	SCT	NC			5.00	BR	31	31	31	100	0	00	29.37	30.12		
09	FEW	NC			10.00		30	22	27	72	14	29	29.54	30.29	09	FEW	NC			6.00	HZ	42	35	39	76	10	18	29.36	30.10		
12	FEW	NC			10.00		37	21	31	52	13	28	29.51	30.26	12	FEW	NC			10.00		51	34	43	52	15	21	29.29	30.02		
15	FEW	NC			10.00		39	16	31	39	16	27	29.47	30.22	15	CLR	NC			10.00		57	36	47	45	16	21	29.17	29.89		
18	FEW	NC			10.00		35	18	29	50	12	27	29.47	30.22	18	CLR	NC			10.00		55	38	47	53	16	21	29.11	29.83		
21	SCT	NC			10.00		33	19	28	56	10	27	29.46	30.21	21	CLR	NC			10.00		53	39	46	59	18	21	29.07	29.80		
24	FEW	NC			10.00		33	18	28	54	14	26	29.41	30.16	24	CLR	NC			10.00		51	37	45	59	16	22	29.03	29.75		
					SUNRISE: 0625	NOV 02			SUNSET: 1645										SUNRISE: 0633	NOV 08			SUNSET: 1638								
03	CLR	NC			10.00		30	20	27	66	10	27	29.37	30.12	03	FEW	NC			10.00		51	33	43	50	18	22	28.99	29.71		
06	CLR	NC			10.00		28	22	26	78	10	27	29.37	30.12	06	FEW	NC			10.00		49	33	42	55	16	21	28.98	29.70		
09	FEW	NC			10.00		34	23	30	64	17	28	29.39	30.14	09	BKN	250			10.00		52	36	45	55	14	22	29.00	29.72		
12	CLR	NC			10.00		43	23	35	45	12	28	29.35	30.09	12	BKN	250			10.00		59	39	49	48	18	22	28.96	29.68		
15	FEW	NC			10.00		47	22	37	37	13	27	29.34	30.08	15	BKN	250			10.00		62	41	51	46	13	20	28.89	29.61		
18	SCT	NC			10.00		40	24	34	53	6	26	29.36	30.11	18	BKN	250			10.00		60	37	49	42	14	20	28.90	29.62		
21	BKN	250			10.00		35	25	31	67	5	25	29.39	30.14	21	BKN	250			10.00		57	37	47	47	14	20	28.91	29.62		
24	BKN	250			10.00		30	23	28	75	0	00	29.39	30.13	24	SCT	NC			10.00		55	41	48	59	14	21	28.89	29.61		
					SUNRISE: 0627	NOV 03			SUNSET: 1643										SUNRISE: 0634	NOV 09			SUNSET: 1637								
03	CLR	NC			10.00		30	24	28	79	0	00	29.36	30.11	03	SCT	NC			10.00		54	46	50	75	14	20	28.87	29.59		
06	SCT	NC			10.00		28	24	27	85	5	24	29.36	30.11	06	CLR	NC			10.00		54	49	51	83	17	21	28.85	29.57		
09	BKN	250			10.00		36	27	33	70	6	24	29.37	30.12	09	BKN	017			10.00		57	51	54	81	16	20	28.85	29.57		
12	BKN	120			10.00		47	27	39	46	12	24	29.32	30.06	12	BKN	025			10.00		63	53	57	70	15	21	28.83	29.53		
15	OVC	060			10.00		42	29	37	60	12	23	29.28	30.02	15	OVC	023			8.00		62	55	58	78	14	17	28.75	29.46		
18	OVC	055			10.00		39	33	37	79	10	22	29.28	30.02	18	OVC	022			10.00	-RA	61	55	58	81	16	18	28.71	29.42		
21	OVC	050			8.00		39	32	36	76	8	25	29.27	30.01	21	OVC	018			8.00	-RA	61	58	59	90	16	22	28.67	29.37		
24	BKN	055			7.00		38	35	37	89	9	26	29.26	29.99	24	OVC	015			7.00		61	59	60	93	10	22	28.61	29.31		
					SUNRISE: 0628	NOV 04			SUNSET: 1642										SUNRISE: 0635	NOV 10			SUNSET: 1636								
03	FEW	NC			4.00	BR	35	33	34	93	8	28	29.27	30.01	03	OVC	023			8.00		62	60	61	93	8	24	28.56	29.26		
06	FEW	NC			7.00		32	29	31	88	8	32	29.32	30.06	06	BKN	012			6.00	BR	61	59	60	93	12	21	28.57	29.27		
09	CLR	NC			10.00		37	27	33	67	8	34	29.38	30.13	09	OVC	019			5.00	BR	60	57	58	90	9	23	28.59	29.29		
12	SCT	NC			10.00		44	27	37	51	6	VR	29.40	30.15	12	OVC	150			4.00	-RA BR	58	55	56	90	12	25	28.62	29.33		
15	SCT	NC			10.00		45	29	38	54	0	00	29.36	30.11	15	OVC	150			4.00	BR	56	53	54	90	18	30	28.64	29.34		
18	CLR	NC			10.00		39	30	35	70	6	08	29.39	30.14	18	OVC	150			5.00	BR	54	51	52	90	8	30	28.70	29.41		
21	BKN	250			10.00		38	32	36	79	9	14	29.37	30.12	21	OVC	044			3.00	BR	51	50	51	96	8	27	28.77	29.48		
24	BKN	200			5.00	BR	35	32	34	89	6	16	29.34	30.08	24	OVC	049			10.00		41	34	38	76	14	25	28.85	29.57		
					SUNRISE: 0629	NOV 05			SUNSET: 1641										SUNRISE: 0637	NOV 11			SUNSET: 1635								
03	BKN	028			4.00	HZ	37	32	35	82	10	14	29.30	30.03	03	FEW	NC			10.00		36	32	34	86	10	24	28.90	29.63		
06	BKN	150			4.00	BR	37	33	35	86	6	15	29.22	29.96	06	OVC	016			10.00		38	32	35	79	13	26	28.98	29.70		
09	OVC	014			2.50	-RA	38	34	36	86	13	13	29.15	29.89	09	OVC	014			3.00	-RA BR	37	37	37	100	12	27	29.09	29.82		
12	OVC	013			3.00	-RA	40	36	38	86	10	12	29.04	29.77	12	OVC	009			3.00	-RA BR	39	36	38	89	7	27	29.19	29.92		
15	OVC	012			6.00	-RA BR	40	39	40	97	3	35	28.98	29.71	15	OVC	014			10.00		40	37	39	89	6	VR	29.29	30.02		
18	OVC	010			5.00	-DZ BR	40	39	40	97	6	32	28.99	29.72	18	OVC	019			10.00		40	35	38	83	6	VR	29.36	30.11		
21	OVC	024			6.00	BR	39	37	38	93	7	31	29.02	29.75	21	OVC	019			10.00		39	34	37	82	5	34	29.42	30.17		
24	OVC	013			5.00	BR	39	37	38	93	7	31	29.05	29.78	24	OVC	016			10.00		40	34	37	79	0	00	29.45	30.19		
					SUNRISE: 0630	NOV 06			SUNSET: 1640										SUNRISE: 0638	NOV 12			SUNSET: 1634								
03	OVC	015			7.00		38	35	37	89	10	31	29.09	29.82	03	OVC	036			10.00		39	33	37	79	3	27	29.48	30.22		
06	OVC	013			8.00		36	32	34	86	10	31	29.17	29.90	06	OVC	036			10.00		39	32	36	76	10					

CHICAGO, IL

NOVEMBER 2002

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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 OFF 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 OFF 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	
NOVEMBER 2021																														
SUNRISE: 0639 NOV 13 SUNSET: 1633														SUNRISE: 0646 NOV 19 SUNSET: 1628																
03	BKN	110			10.00		37	31	35	79	8	25	29.35	30.09	03	OVC	045			5.00	BR		36	33	35	89	8	29	29.24	29.98
06	BKN	110			10.00		37	33	35	86	5	26	29.36	30.11	06	FEW	NC			5.00	BR		34	33	34	97	7	25	29.29	30.03
09	FEW	NC			10.00		41	34	38	76	6	28	29.38	30.12	09	FEW	NC			7.00			39	33	37	79	10	25	29.32	30.06
12	SCT	NC			10.00		53	37	46	55	9	24	29.33	30.06	12	SCT	NC			10.00			50	33	42	52	9	23	29.29	30.02
15	BKN	250			10.00		55	36	46	49	12	19	29.26	29.99	15	BKN	250			10.00			53	33	44	47	13	22	29.27	30.00
18	OVC	120			10.00		53	37	46	55	8	18	29.19	29.92	18	OVC	250			10.00			51	33	43	50	12	23	29.29	30.02
21	OVC	100			10.00		56	33	45	42	17	21	29.15	29.88	21	OVC	250			10.00			47	33	41	59	6	24	29.32	30.05
24	BKN	095			10.00		55	33	45	44	15	23	29.12	29.85	24	CLR	NC			10.00			43	34	39	71	3	26	29.31	30.04
SUNRISE: 0640 NOV 14 SUNSET: 1632														SUNRISE: 0648 NOV 20 SUNSET: 1627																
03	BKN	120			10.00		52	36	45	55	10	22	29.11	29.83	03	CLR	NC			10.00			40	33	37	77	0	00	29.30	30.02
06	OVC	090			10.00		50	36	44	59	7	22	29.12	29.84	06	OVC	075			10.00			40	33	37	77	0	00	29.29	30.02
09	OVC	200			10.00		51	37	45	59	10	25	29.14	29.86	09	OVC	070			10.00			45	33	40	63	7	20	29.28	30.01
12	OVC	150			10.00		52	38	45	59	9	30	29.12	29.84	12	BKN	075			10.00			48	33	41	56	8	22	29.22	29.94
15	OVC	010			4.00	-RA BR	44	42	43	93	10	04	29.15	29.88	15	OVC	085			10.00			50	36	44	59	8	23	29.19	29.92
18	OVC	012			6.00	-RA BR	41	39	40	93	9	02	29.18	29.91	18	OVC	080			10.00			47	35	42	63	5	24	29.19	29.92
21	OVC	017			9.00	-RA	41	39	40	93	6	03	29.20	29.92	21	OVC	110			10.00			45	33	40	63	7	25	29.17	29.90
24	OVC	010			5.00	-RA BR	39	35	37	86	9	36	29.22	29.95	24	OVC	110			10.00			43	33	39	68	5	25	29.14	29.86
SUNRISE: 0641 NOV 15 SUNSET: 1631														SUNRISE: 0649 NOV 21 SUNSET: 1626																
03	OVC	024			10.00		40	33	37	77	7	36	29.25	29.98	03	SCT	NC			10.00			41	33	38	74	6	23	29.08	29.80
06	OVC	023			7.00	-DZ	37	33	35	86	6	35	29.28	30.01	06	OVC	050			10.00		-RA	41	35	39	81	7	30	29.02	29.75
09	OVC	026			10.00		39	31	36	73	12	06	29.34	30.08	09	OVC	008			3.00	-RA BR		43	40	42	89	17	36	28.99	29.72
12	OVC	028			10.00		38	29	34	70	14	07	29.38	30.12	12	OVC	014			7.00	-RA		40	38	39	93	20	01	29.00	29.73
15	OVC	040			10.00		39	25	34	57	16	04	29.39	30.14	15	OVC	015			10.00		-RA	37	35	36	93	21	36	29.07	29.81
18	OVC	046			10.00		38	24	33	57	14	04	29.44	30.18	18	OVC	055			10.00			37	26	33	65	20	34	29.15	29.89
21	OVC	039			10.00		38	25	33	60	13	05	29.46	30.21	21	FEW	NC			10.00			35	26	32	70	15	33	29.20	29.93
24	OVC	037			10.00		36	25	32	64	12	07	29.48	30.22	24	BKN	060			10.00			36	29	33	76	15	33	29.21	29.94
SUNRISE: 0643 NOV 16 SUNSET: 1630														SUNRISE: 0650 NOV 22 SUNSET: 1626																
03	OVC	031			10.00		34	26	31	73	9	06	29.48	30.22	03	OVC	070			10.00			35	26	32	70	16	35	29.23	29.96
06	OVC	044			10.00		33	24	30	70	8	06	29.48	30.23	06	OVC	060			10.00			34	27	31	76	14	33	29.27	30.00
09	BKN	045			10.00		35	23	31	61	14	04	29.49	30.24	09	OVC	050			10.00			34	27	31	76	15	34	29.32	30.06
12	BKN	041			10.00		35	29	33	78	13	02	29.47	30.22	12	BKN	032			10.00			35	23	31	61	12	34	29.33	30.07
15	BKN	031			10.00	-SN	34	29	32	82	10	01	29.42	30.17	15	BKN	038			10.00			36	23	31	59	10	32	29.34	30.08
18	OVC	039			8.00	-SN	33	26	30	75	9	36	29.42	30.16	18	FEW	NC			10.00			31	23	28	72	3	26	29.35	30.10
21	OVC	060			8.00	-SN	34	25	31	70	12	35	29.40	30.15	21	CLR	NC			10.00			26	22	25	84	0	00	29.34	30.09
24	OVC	036			7.00	-SN	31	25	29	79	13	34	29.35	30.10	24	SCT	NC			10.00			30	24	28	79	6	21	29.33	30.07
SUNRISE: 0644 NOV 17 SUNSET: 1629														SUNRISE: 0651 NOV 23 SUNSET: 1625																
03	OVC	028			3.00	-SN BR	30	28	29	92	12	35	29.33	30.07	03	BKN	090			10.00			31	27	29	85	3	17	29.31	30.04
06	OVC	018			2.00	-SN BR	30	30	30	100	8	35	29.33	30.07	06	OVC	070			10.00			35	25	31	67	12	20	29.22	29.96
09	BKN	060			10.00		31	28	30	89	9	34	29.34	30.09	09	SCT	NC			10.00			37	28	34	70	17	22	29.18	29.92
12	SCT	NC			10.00		38	28	34	68	8	35	29.33	30.07	12	FEW	NC			10.00			43	30	38	60	16	28	29.14	29.88
15	BKN	036			10.00		38	23	32	55	6	04	29.31	30.04	15	SCT	NC			10.00			46	32	40	58	13	28	29.16	29.89
18	OVC	042			10.00		35	23	31	61	7	30	29.33	30.07	18	FEW	NC			10.00			41	30	37	65	7	26	29.22	29.96
21	CLR	NC			10.00		27	22	25	81	0	00	29.34	30.09	21	FEW	NC			10.00			37	28	34	70	7	28	29.28	30.01
24	CLR	NC			8.00		26	23	25	88	3	23	29.34	30.09	24	BKN	150			10.00			38	28	34	68	9	28	29.31	30.04
SUNRISE: 0645 NOV 18 SUNSET: 1628														SUNRISE: 0652 NOV 24 SUNSET: 1624																
03	CLR	NC			9.00		24	23	24	96	5	21	29.35	30.10	03	BKN	110			10.00			36	27	33	70	7	28	29.34	30.08
06	SCT	NC			9.00		26	24	25	92	5	16	29.35	30.10	06	OVC	090			10.00			36	27	33	70	7	29	29.36	30.11
09	OVC	200			9.00		32	26	30	79	10	17	29.34	30.09	09	OVC	090			10.00			36	22	31	57	9	34	29.41	30.15
12	OVC	150			9.00		40	30	36	68	12	16	29.30	30.04	12	OVC	095			10.00			35	21	30	57	9	34	29.42	30.16
15	OVC	150			9.00		42	33	38	71	12	14	29.24	29.98	15	OVC	060			10.00			35	21	30	57	8	33	29.41	30.16
18	OVC	085			10.00	-RA	43	35	40	74	0	00	29.21	29.95	18	OVC	016			1.00	-SN BR		29	28	29	96	6	36	29.45	30.20
21	OVC	035			5.00	RA BR	42	39	41	89	5	29	29.17	29.91	21	OVC	025			2.00	-SN BR		27	25	26	92	8	32	29.50	30.25
24	OVC	010			5.00	-RA BR	40	39	40	97	10	30	29.18	29.91	24	BKN	120			10.00			26	21	24	81	9	32	29.48	30.24

OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

NOVEMBER 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 OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
					SUNRISE: 0653	NOV 25			SUNSET: 1624																		
03	CLR	NC					22	18	21	85	6	29	29.51	30.26													
06	CLR	NC					21	17	20	85	8	31	29.54	30.30													
09	SCT	NC					24	19	22	81	12	32	29.59	30.35													
12	SCT	NC					30	18	26	61	10	32	29.60	30.35													
15	BKN	250					30	19	26	64	7	34	29.58	30.34													
18	BKN	250					27	18	24	69	5	33	29.64	30.40													
21	BKN	250					25	17	23	72	6	32	29.65	30.41													
24	CLR	NC					24	18	22	77	7	34	29.66	30.41													
					SUNRISE: 0655	NOV 26			SUNSET: 1623																		
03	CLR	NC					20	16	19	85	5	34	29.65	30.41													
06	BKN	200					24	17	22	75	7	35	29.64	30.40													
09	OVC	030			-SN		29	20	26	69	10	33	29.64	30.39													
12	OVC	014			SN FZFG		28	27	28	96	9	32	29.61	30.37													
15	VV	005			SN FZFG		28	27	28	96	9	33	29.61	30.37													
18	OVC	060					27	25	26	92	5	28	29.60	30.36													
21	SCT	NC					22	20	21	92	5	30	29.62	30.37													
24	SCT	NC					22	20	21	92	6	28	29.61	30.37													
					SUNRISE: 0656	NOV 27			SUNSET: 1623																		
03	CLR	NC			5.00 BR		15	15	15	100	5	25	29.60	30.36													
06	FEW	NC			10.00		18	15	17	88	7	29	29.61	30.37													
09	SCT	NC			10.00		22	17	20	82	8	31	29.65	30.41													
12	SCT	NC			10.00		29	16	25	58	7	25	29.62	30.37													
15	SCT	NC			10.00		29	18	25	64	7	29	29.58	30.34													
18	BKN	035			10.00		25	15	22	66	3	24	29.57	30.33													
21	FEW	NC			10.00		21	17	20	85	3	23	29.58	30.34													
24	FEW	NC			8.00		18	15	17	88	5	25	29.56	30.32													
					SUNRISE: 0657	NOV 28			SUNSET: 1622																		
03	CLR	NC			7.00		17	15	17	92	3	23	29.52	30.28													
06	FEW	NC			7.00 BR		16	13	15	88	5	23	29.50	30.26													
09	BKN	032			6.00 BR		22	18	21	85	7	25	29.48	30.24													
12	OVC	033			8.00		28	20	25	72	10	22	29.41	30.16													
15	SCT	NC			9.00		32	24	29	73	12	22	29.33	30.08													
18	SCT	NC			10.00		32	26	30	79	9	22	29.26	30.01													
21	SCT	NC			10.00		33	24	30	70	9	23	29.17	29.91													
24	SCT	NC			10.00		33	24	30	70	15	24	29.03	29.77													
					SUNRISE: 0658	NOV 29			SUNSET: 1622																		
03	CLR	NC			10.00		36	27	32	70	17	23	28.84	29.57													
06	SCT	NC			10.00		38	30	35	73	20	25	28.79	29.52													
09	BKN	250			10.00		39	32	36	76	9	25	28.78	29.51													
12	OVC	140			10.00		44	34	40	68	16	26	28.75	29.48													
15	OVC	150			10.00		46	32	40	58	18	26	28.76	29.48													
18	BKN	200			10.00		43	29	37	58	16	27	28.77	29.49													
21	SCT	NC			10.00		41	27	35	57	14	27	28.78	29.50													
24	SCT	NC			10.00		40	27	35	60	16	28	28.78	29.50													
					SUNRISE: 0659	NOV 30			SUNSET: 1622																		
03	OVC	050			10.00		39	25	34	57	18	29	28.76	29.48													
06	OVC	027			3.00 -SN		28	23	26	81	24	33	28.90	29.64													
09	BKN	032			10.00		27	18	24	69	24	32	29.04	29.78													
12	OVC	039			10.00		28	15	24	58	26	30	29.13	29.86													
15	OVC	043			10.00 -SN		26	14	22	60	23	31	29.21	29.95													
18	OVC	043			10.00		23	11	20	60	12	31	29.31	30.05													
21	FEW	NC			10.00		20	4	16	50	14	33	29.36	30.11													
24	CLR	NC			10.00		17	2	14	51	9	31	29.39	30.14													

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visiblity = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			37	30	34	77	29.25	29.98	8.73	9	5	27
02			36	29	33	78	29.25	29.98	8.90	9	5	27
03			35	29	33	79	29.24	29.98	8.63	8	5	26
04			35	29	33	80	29.24	29.98	8.37	9	5	27
05			35	29	32	81	29.25	29.98	8.24	9	5	27
06			35	29	32	81	29.25	29.99	8.43	9	5	27
07			34	29	32	81	29.26	30.00	8.22	9	5	28
08			36	29	33	79	29.27	30.01	8.43	10	5	27
09			38	30	35	75	29.27	30.01	8.55	12	5	28
10			39	30	36	70	29.27	30.01	8.63	11	5	28
11			41	30	37	68	29.27	30.01	8.68	12	7	28
12			42	30	37	65	29.25	29.99	8.78	12	6	27
13			43	30	38	64	29.24	29.98	8.82	11	6	27
14			43	31	38	64	29.23	29.97	9.02	12	5	27
15			42	31	38	65	29.24	29.97	9.02	12	5	28
16			42	31	37	67	29.24	29.98	8.75	11	5	27
17			41	30	36	69	29.25	29.98	9.02	10	4	27
18			40	30	36	70	29.25	29.99	9.13	8	4	27
19			39	30	35	71	29.26	30.00	9.13	9	4	27
20			38	29	35	72	29.26	30.00	9.07	9	4	26
21			38	29	35	73	29.26	30.00	8.90	9	5	26
22			37	29	34	75	29.26	29.99	9.10	9	5	27
23			37	29	34	75	29.25	29.99	8.87	9	6	26
24			37	29	34	75	29.25	29.99	8.80	9	6	27

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

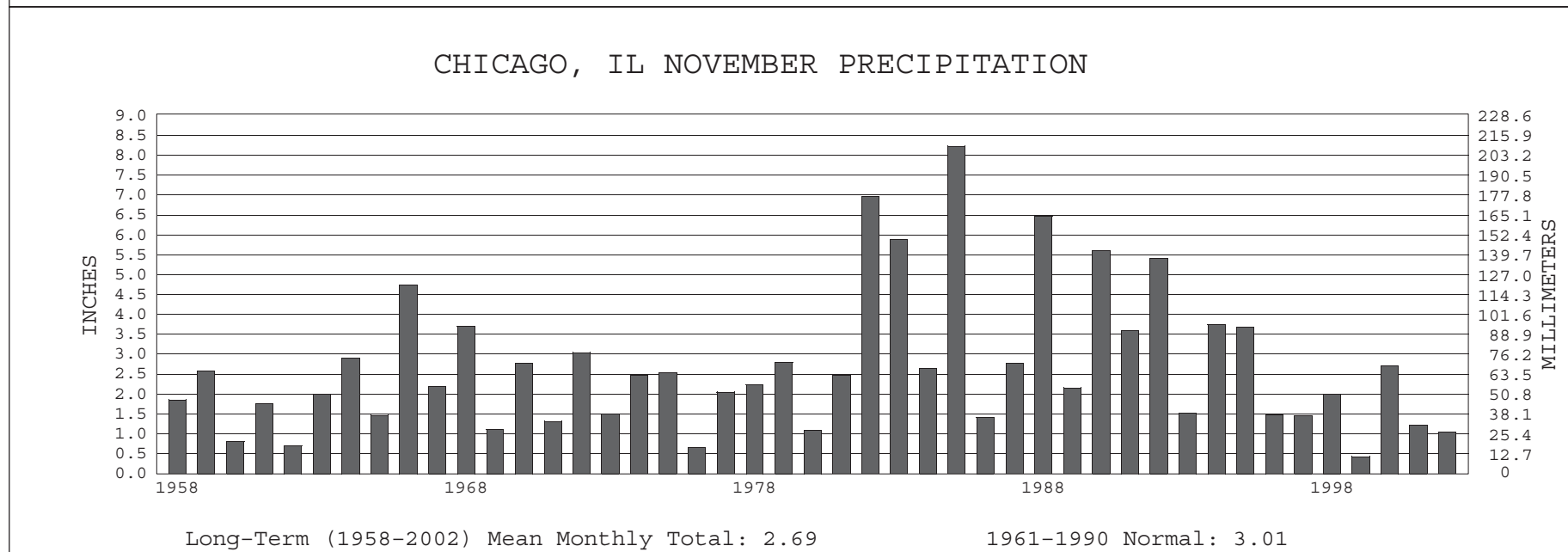
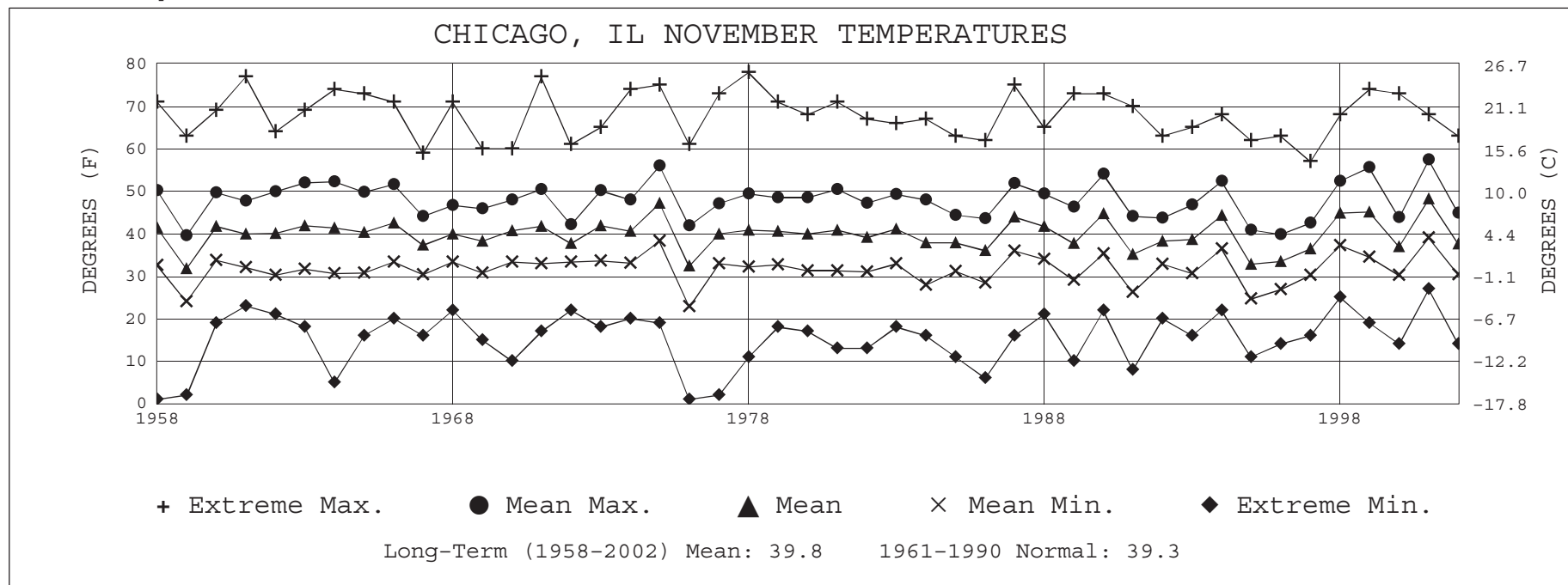
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			37	30	34	77	29.25	29.98	8.73	9	5	27
02			36	29	33	78	29.25	29.98	8.90	9	5	27
03			35	29	33	79	29.24	29.98	8.63	8	5	26
04			35	29	33	80	29.24	29.98	8.37	9	5	27
05			35	29	32	81	29.25	29.98	8.24	9	5	27
06			35	29	32	81	29.25	29.99	8.43	9	5	27
07			34	29	32	81	29.26	30.00	8.22	9	5	28
08			36	29	33	79	29.27	30.01	8.43	10	5	27
09			38	30	35	75	29.27	30.01	8.55	12	5	28
10			39	30	36	70	29.27	30.01	8.63	11	5	28
11			41	30	37	68	29.27	30.01	8.68	12	7	28
12			42	30	37	65	29.25	29.99	8.78	12	6	27
13			43	30	38	64	29.24	29.98	8.82	11	6	27
14			43	31	38	64	29.23	29.97	9.02	12	5	27
15			42	31	38	65	29.24	29.97	9.02	12	5	28
16			42	31	37	67	29.24	29.98	8.75	11	5	27
17			41	30	36	69	29.25	29.98	9.02	10	4	27
18			40	30	36	70	29.25	29.99	9.13	8	4	27
19			39	30	35	71	29.26	30.00	9.13	9	4	27
20			38	29	35	72	29.26	30.00	9.07	9	4	26
21			38	29	35	73	29.26	30.00	8.90	9	5	26





NOVEMBER 2002

CHICAGO, IL

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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