



JULY 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	93	75	84	12	71	75	0	19	RA	0		0.0	0.00	29.36	30.07	8.2	24	8.4	21	26	17	26	01	
02	93	75	84	12	66	72	0	19		0		0.0	0.00	29.37	30.07	9.8	27	10.2	26	27	20	30	02	
03	94	73	84	12	70	75	0	19		0		0.0	0.00	29.30	30.00	7.3	25	7.6	24	26	18	24	03	
04	90	69	80	8	68	72	0	15		0		0.0	0.19	29.35	30.06	5.0	03	8.4	26	05	18	02	04	
05	81	68	75	3	61	66	0	10		0		0.0	0.00	29.48	30.19	9.5	05	10.0	25	07	16	08	05	
06	84	66	75	3	61	66	0	10	RA	0		0.0	0.04	29.50	30.21	3.1	11	5.4	24	07	14	09	06	
07	89	64	77	5	65	69	0	12		0		0.0	0.00	29.46	30.18	3.1	11	4.5	22	07	13	09	07	
08	93	69	81	8	70	74	0	16	TS	0		0.0	0.00	29.34	30.05	8.7	24	9.2	28	26	22	27	08	
09	80	68	74	1	70	71	0	9	TSRA RA BR	0		0.0	2.08	29.30	30.01	4.9	02	9.4	30	04	24*	07	09	
10	78	69	74	1	60	65	0	9		0		0.0	0.00	29.42	30.13	12.6	07	13.5	31*	07	20	09	10	
11	74	63	69	-4	53	60	0	4		0		0.0	0.00	29.46	30.17	11.3	08	12.2	25	08	20	10	11	
12	79	57	68*	-5	53	60	0	3		0		0.0	0.00	29.35	30.06	4.6	07	5.9	26	07	15	05	12	
13	82	57	70	-3	53	61	0	5		0		0.0	0.00	29.28	29.99	4.7	05	5.7	26	06	14	06	13	
14	88	56*	72	-1	53	62	0	7		0		0.0	0.00	29.30	30.01	0.7	01	4.8	24	07	17	05	14	
15	91	60	76	2	60	67	0	11		0		0.0	0.00	29.35	30.06	0.7	14	4.0	20	10	13	08	15	
16	89	69	79	5	63	69	0	14		0		0.0	0.00	29.36	30.07	3.7	25	5.0	22	20	12	24	16	
17	89	66	78	4	66	71	0	13	HZ	0		0.0	0.00	29.31	30.02	4.6	24	5.2	18	27	13	26	17	
18	92	72	82	8	66	71	0	17	BR HZ	0		0.0	0.00	29.22	29.92	1.9	07	7.2	25	07	16	10	18	
19	81	67	74	0	65	69	0	9	BR HZ	0		0.0	0.00	29.22	29.93	7.8	04	8.4	25	06	15	04	19	
20	90	62	76	2	67	71	0	11	RA	0		0.0	T	29.28	29.99	2.8	20	5.2	16	18	13	18	20	
21	96*	78	87*	13	75	78	0	22		0		0.0	0.00	29.21	29.91	8.8	23	9.4	23	24	18	24	21	
22	90	76	83	9	70	74	0	18	RA	0		0.0	T	29.20	29.91	6.3	29	9.2	22	31	18	31	22	
23	76	63	70	-4	57	63	0	5		0		0.0	0.00	29.44	30.16	12.9	03	13.6	30	05	23	02	23	
24	79	63	71	-3	53	61	0	6		0		0.0	0.00	29.48	30.19	8.1	08	8.7	25	05	16	06	24	
25	80	65	73	-1	65	68	0	8	RA	0		0.0	0.01	29.30	30.01	7.0	17	7.5	17	18	14	17	25	
26	88	69	79	5	72	74	0	14	BR HZ	0		0.0	0.00	29.16	29.87	5.6	23	6.3	17	23	14	23	26	
27	89	71	80	6	74	76	0	15	RA BR	0		0.0	0.29	29.10	29.80	9.0	22	9.5	29	24	18	21	27	
28	88	74	81	7	75	77	0	16	TS TSRA RA	0		0.0	0.01	29.09	29.79	9.5	23	9.9	22	25	17	24	28	
29	83	71	77	3	71	73	0	12	TS RA BR	0		0.0	0.06	29.11	29.81	6.9	26	8.0	21	28	17	28	29	
30	91	69	80	6	69	73	0	15		0		0.0	0.00	29.28	29.98	5.7	26	6.8	18	24	14	24	30	
31	94	69	82	8	68	73	0	17		0		0.0	0.00	29.26	29.97	6.7	22	6.0	14	24	10	18	31	
86.6 67.5 77.1 ■■ 64.8 69.6 0.0 12.3 < MONTHLY AVERAGES TOTALS->										0.0		2.68		29.31	30.02	1.6	21	7.9	<- MONTHLY AVERAGES					
3.1 4.3 3.8 ■■ <-----DEPARTURE FROM NORMAL----->												- .83	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.08 DATE :09				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM : 30.26 06 0956											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.71 27 1656											
HEATING: 0 -5 0 -5									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 12				MINIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.01 INCH : 7					
COOLING: 380 97 681 181											MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 3					
											THUNDERSTORMS : 4				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 0					

JULY 2002
CHICAGO, IL

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

CHICAGO, IL

JULY 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	1.45	0.63	T			0.04	T					0.12	01	0.07	T											01			0.00		
02													02													0.00					
03													03													0.00					
04													04													0.19					
05													05													0.00					
06													06													0.04					
07													07													0.00					
08													08													0.00					
09													09													2.08					
10													10													0.00					
11													11														11			0.00	
12													12														0.00				
13													13														0.00				
14													14														0.00				
15													15														0.00				
16													16														0.00				
17													17														0.00				
18													18														0.00				
19													19														0.00				
20													20														T				
21													21															21			0.00
22													22															T			
23													23																		
24													24																		
25													25															T			
26													26																		
27													27																		
28													28																		
29													29																		
30													30																		
31	31																														

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
JULY 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.

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							10.00	10.00	
04							6.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							7.00	10.00	
09							1.50	10.00	
10							9.00	10.00	
11							10.00	10.00	
12							7.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							6.00	10.00	
18							4.00	10.00	
19							5.00	10.00	
20							7.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							5.00	10.00	
27							4.00	10.00	
28							7.00	10.00	
29							3.00	10.00	
30							7.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							8.02	10.00	

SUNSHINE (MINUTES)

Total: Possible:

 Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

 31

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

 0 1 23

OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

JULY 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 <i>Okas</i>		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 <i>Okas</i>		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
			SUNRISE: 0420		JUL 01	SUNSET: 1931											SUNRISE: 0423		JUL 07	SUNSET: 1930									
03	CLR	NC		10.00		77	73	74	88	5	25	29.34	30.05	03	CLR	NC		10.00		67	62	64	84	0	00	29.48	30.20		
06	CLR	NC		10.00		78	73	75	85	7	24	29.38	30.09	06	FEW	NC		10.00		71	65	67	81	0	00	29.50	30.22		
09	CLR	NC		10.00		85	73	77	68	10	24	29.39	30.10	09	CLR	NC		10.00		82	63	70	53	3	22	29.50	30.22		
12	SCT	NC		10.00		90	70	76	52	12	27	29.36	30.07	12	SCT	NC		10.00		89	67	74	48	6	14	29.48	30.19		
15	FEW	NC		10.00		92	69	76	47	13	26	29.34	30.04	15	SCT	NC		10.00		88	66	73	48	10	09	29.44	30.16		
18	SCT	NC		10.00		88	69	75	54	14	23	29.34	30.04	18	CLR	NC		10.00		86	66	73	51	12	10	29.42	30.13		
21	FEW	NC		10.00		82	69	73	65	6	24	29.34	30.06	21	CLR	NC		10.00		76	66	69	72	8	15	29.42	30.14		
24	CLR	NC		10.00		79	69	72	72	7	23	29.35	30.06	24	CLR	NC		10.00		72	67	69	84	0	00	29.42	30.13		
			SUNRISE: 0421		JUL 02	SUNSET: 1931											SUNRISE: 0424		JUL 08	SUNSET: 1929									
03	CLR	NC		10.00		78	68	71	71	10	27	29.36	30.07	03	CLR	NC		10.00		72	66	68	82	0	00	29.41	30.12		
06	CLR	NC		10.00		77	64	69	64	9	27	29.41	30.12	06	SCT	NC		10.00		75	67	70	76	6	23	29.41	30.13		
09	CLR	NC		10.00		86	66	73	51	14	27	29.40	30.11	09	SCT	NC		10.00		87	71	76	59	9	23	29.40	30.11		
12	CLR	NC		10.00		91	63	72	39	17	28	29.38	30.09	12	SCT	NC		10.00		91	72	78	54	13	24	29.35	30.06		
15	SCT	NC		10.00		93	63	73	37	15	27	29.36	30.07	15	SCT	NC		10.00		93	73	79	52	13	25	29.30	30.00		
18	CLR	NC		10.00		90	65	73	44	10	28	29.33	30.03	18	CLR	NC		9.00		90	73	78	58	15	24	29.24	29.94		
21	CLR	NC		10.00		82	67	72	60	5	23	29.34	30.04	21	BKN	200		8.00		86	73	77	65	13	21	29.24	29.94		
24	CLR	NC		10.00		77	69	72	77	3	24	29.34	30.05	24	OVC	065		7.00	TS	78	68	71	71	8	30	29.27	29.97		
			SUNRISE: 0421		JUL 03	SUNSET: 1931											SUNRISE: 0425		JUL 09	SUNSET: 1929									
03	CLR	NC		10.00		76	69	71	79	3	23	29.33	30.03	03	BKN	150		10.00		72	71	71	97	8	19	29.25	29.95		
06	CLR	NC		10.00		78	70	73	76	5	26	29.34	30.04	06	BKN	250		10.00		73	72	72	96	6	21	29.26	29.96		
09	CLR	NC		10.00		87	71	76	59	8	28	29.34	30.04	09	OVC	027		10.00		78	73	75	85	6	24	29.27	29.97		
12	FEW	NC		10.00		93	69	76	46	13	22	29.32	30.01	12	SCT	NC		10.00		79	73	75	82	13	02	29.28	29.98		
15	SCT	NC		10.00		92	70	77	49	13	23	29.27	29.97	15	OVC	010		6.00	BR	74	70	71	88	16	02	29.31	30.01		
18	SCT	NC		10.00		91	71	77	52	13	25	29.25	29.95	18	FEW	NC		10.00		73	67	69	81	14	03	29.31	30.01		
21	FEW	NC		10.00		84	70	74	63	5	25	29.27	29.97	21	SCT	NC		10.00		68	66	67	93	12	02	29.36	30.08		
24	CLR	NC		10.00		79	70	73	74	3	26	29.29	29.99	24	SCT	NC		8.00		69	66	67	90	6	01	29.37	30.09		
			SUNRISE: 0422		JUL 04	SUNSET: 1930											SUNRISE: 0426		JUL 10	SUNSET: 1928									
03	CLR	NC		10.00		76	70	72	82	3	25	29.29	29.99	03	FEW	NC		10.00		69	68	68	96	9	04	29.35	30.07		
06	CLR	NC		10.00		80	72	74	76	6	29	29.32	30.02	06	BKN	250		10.00		71	65	67	81	9	09	29.41	30.13		
09	FEW	NC		10.00		87	73	77	63	7	29	29.34	30.04	09	SCT	NC		10.00		75	59	65	58	18	10	29.43	30.15		
12	BKN	070		10.00	-RA	88	72	77	59	3	VR	29.34	30.04	12	BKN	250		10.00		76	59	65	56	13	06	29.45	30.16		
15	BKN	070		10.00		87	68	74	53	14	07	29.34	30.04	15	OVC	200		10.00		76	58	65	54	16	05	29.39	30.11		
18	BKN	060		10.00		75	65	69	71	13	03	29.37	30.09	18	OVC	150		10.00		73	55	62	53	12	06	29.40	30.11		
21	FEW	NC		10.00		71	62	65	73	14	02	29.41	30.12	21	OVC	150		10.00		71	57	63	61	15	06	29.43	30.15		
24	CLR	NC		10.00		69	60	64	73	10	02	29.43	30.14	24	FEW	NC		10.00		70	55	61	59	16	09	29.47	30.18		
			SUNRISE: 0422		JUL 05	SUNSET: 1930											SUNRISE: 0426		JUL 11	SUNSET: 1928									
03	CLR	NC		10.00		69	64	66	84	9	04	29.42	30.13	03	FEW	NC		10.00		68	50	58	53	10	09	29.45	30.17		
06	SCT	NC		10.00		71	61	65	71	10	06	29.46	30.18	06	BKN	150		10.00		67	50	58	55	15	10	29.48	30.20		
09	BKN	250		10.00		76	63	68	64	6	VR	29.48	30.20	09	BKN	250		10.00		70	50	59	49	15	10	29.50	30.22		
12	SCT	NC		10.00		80	62	69	54	10	07	29.49	30.20	12	BKN	250		10.00		73	50	60	44	14	08	29.49	30.21		
15	SCT	NC		10.00		80	59	67	49	16	07	29.48	30.20	15	BKN	200		10.00		72	52	60	50	14	06	29.44	30.16		
18	FEW	NC		10.00		76	52	62	43	12	07	29.47	30.19	18	BKN	180		10.00		71	55	62	57	12	05	29.41	30.13		
21	SCT	NC		10.00		70	62	65	76	8	06	29.50	30.22	21	BKN	250		10.00		67	59	62	76	8	05	29.42	30.14		
24	FEW	NC		10.00		68	64	66	87	7	04	29.48	30.20	24	FEW	NC		10.00		63	59	61	87	3	01	29.40	30.12		
			SUNRISE: 0423		JUL 06	SUNSET: 1930											SUNRISE: 0427		JUL 12	SUNSET: 1928									
03	CLR	NC		10.00		69	65	66	87	6	08	29.49	30.21	03	CLR	NC		10.00		61	60	60	97	0	00	29.38	30.10		
06	OVC	048		10.00	-RA	69	61	64	76	10	13	29.53	30.25	06	BKN	250		10.00		62	59	60	90	0	00	29.39	30.11		
09	BKN	047		10.00		74	59	65	60	3	21	29.54	30.26	09	BKN	250		10.00		71	51	60	49	8	11	29.39	30.11		
12	BKN	049		10.00		80	61	68	52	8	26	29.53	30.25	12	BKN	250		10.00		77	49	61	37	10	12	29.36	30.08		
15	BKN	250		10.00		83	61	69	48	6	19	29.47	30.19	15	BKN	250		10.00		78	49	61	36	12	05	29.32	30.03		
18	SCT	NC		10.00		79	61	68	54	10	09	29.45	30.17	18															

OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

JULY 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: 0428				JUL 13	SUNSET: 1927										SUNRISE: 0433				JUL 19	SUNSET: 1923								
03	CLR	NC			10.00		62	60	61	93	3	36	29.28	29.99	03	OVC	014			5.00	BR	74	72	73	94	6	07	29.17	29.88		
06	CLR	NC			10.00		64	60	62	87	6	36	29.30	30.01	06	OVC	016			7.00		74	70	71	88	10	03	29.20	29.91		
09	CLR	NC			10.00		76	52	62	43	8	05	29.30	30.01	09	OVC	018			7.00		77	70	72	79	8	02	29.21	29.91		
12	CLR	NC			10.00		79	52	63	39	6	VR	29.29	30.00	12	OVC	022			7.00		79	70	73	74	10	04	29.23	29.93		
15	CLR	NC			10.00		81	50	63	34	13	05	29.28	29.98	15	BKN	200			10.00		80	66	71	62	8	04	29.22	29.92		
18	CLR	NC			10.00		79	48	61	34	8	03	29.26	29.97	18	SCT	NC			10.00		76	62	67	62	14	05	29.22	29.93		
21	CLR	NC			10.00		65	51	57	61	0	00	29.27	29.97	21	CLR	NC			10.00		72	55	62	55	6	02	29.27	29.98		
24	CLR	NC			10.00		59	54	56	83	0	00	29.29	29.99	24	CLR	NC			10.00		70	60	64	71	5	01	29.28	29.98		
			SUNRISE: 0429				JUL 14	SUNSET: 1926										SUNRISE: 0434				JUL 20	SUNSET: 1923								
03	CLR	NC			10.00		59	55	57	87	5	33	29.28	29.99	03	CLR	NC			10.00		67	61	63	81	6	VR	29.27	29.98		
06	CLR	NC			10.00		65	57	60	76	0	00	29.31	30.02	06	FEW	NC			10.00		68	63	65	84	0	00	29.30	30.01		
09	CLR	NC			10.00		78	54	64	43	0	00	29.34	30.05	09	FEW	NC			10.00		79	56	65	45	5	VR	29.32	30.03		
12	FEW	NC			10.00		84	52	65	33	3	VR	29.31	30.02	12	FEW	NC			10.00		88	66	73	48	8	19	29.30	30.00		
15	FEW	NC			10.00		86	54	66	33	7	28	29.27	29.98	15	BKN	250			10.00		90	70	76	52	7	21	29.28	29.98		
18	FEW	NC			10.00		83	51	64	33	9	11	29.30	30.00	18	OVC	250			10.00		86	72	76	63	7	22	29.26	29.96		
21	FEW	NC			10.00		78	52	63	40	6	07	29.31	30.01	21	BKN	250			10.00		82	74	76	77	6	18	29.26	29.96		
24	FEW	NC			10.00		69	55	61	61	0	00	29.33	30.03	24	OVC	150			10.00		81	75	77	82	7	17	29.27	29.96		
			SUNRISE: 0429				JUL 15	SUNSET: 1926										SUNRISE: 0435				JUL 21	SUNSET: 1922								
03	CLR	NC			10.00		62	57	59	84	0	00	29.32	30.03	03	SCT	NC			10.00		79	75	76	88	7	21	29.22	29.92		
06	FEW	NC			10.00		70	61	64	73	0	00	29.37	30.08	06	BKN	200			10.00		80	75	77	85	8	21	29.24	29.94		
09	CLR	NC			10.00		83	60	68	46	6	27	29.37	30.09	09	BKN	250			10.00		88	77	80	70	8	23	29.24	29.94		
12	SCT	NC			10.00		86	59	69	40	6	VR	29.36	30.08	12	BKN	250			10.00		93	74	79	54	13	27	29.25	29.95		
15	FEW	NC			10.00		88	62	71	42	0	00	29.34	30.05	15	BKN	250			10.00		96	73	79	48	9	25	29.18	29.88		
18	FEW	NC			10.00		86	62	70	45	8	08	29.33	30.03	18	SCT	NC			10.00		93	75	80	56	15	22	29.14	29.83		
21	FEW	NC			10.00		76	62	67	62	6	18	29.34	30.05	21	SCT	NC			10.00		85	76	78	75	6	20	29.22	29.92		
24	FEW	NC			10.00		76	64	68	67	7	30	29.35	30.07	24	SCT	NC			10.00		84	76	78	77	9	23	29.21	29.90		
			SUNRISE: 0430				JUL 16	SUNSET: 1925										SUNRISE: 0435				JUL 22	SUNSET: 1921								
03	CLR	NC			10.00		70	64	66	82	5	27	29.35	30.06	03	FEW	NC			10.00		79	74	75	85	7	22	29.15	29.85		
06	CLR	NC			10.00		74	66	69	76	0	00	29.38	30.10	06	BKN	250			10.00		78	74	75	87	5	22	29.19	29.88		
09	CLR	NC			10.00		84	65	71	53	5	25	29.40	30.11	09	BKN	250			10.00		85	73	77	68	7	VR	29.19	29.89		
12	SCT	NC			10.00		86	63	71	46	3	VR	29.37	30.09	12	BKN	070			10.00		89	76	80	65	8	27	29.19	29.88		
15	SCT	NC			10.00		88	64	72	45	7	24	29.34	30.06	15	BKN	200			10.00		88	69	75	54	15	30	29.17	29.87		
18	FEW	NC			10.00		86	59	69	40	9	25	29.33	30.03	18	OVC	150			10.00		85	70	75	61	13	32	29.21	29.91		
21	SCT	NC			10.00		75	60	66	60	5	24	29.35	30.06	21	OVC	200			10.00		80	63	69	56	7	35	29.27	29.97		
24	FEW	NC			10.00		75	63	67	66	3	25	29.35	30.06	24	OVC	110			10.00		76	62	67	62	9	35	29.30	30.00		
			SUNRISE: 0431				JUL 17	SUNSET: 1925										SUNRISE: 0436				JUL 23	SUNSET: 1920								
03	CLR	NC			10.00		72	64	67	76	5	26	29.34	30.05	03	SCT	NC			10.00		72	66	68	82	20	03	29.34	30.05		
06	BKN	250			10.00		70	66	67	87	0	00	29.35	30.06	06	BKN	018			10.00		68	62	64	81	16	03	29.40	30.11		
09	SCT	NC			10.00		82	65	71	56	8	23	29.36	30.08	09	SCT	NC			10.00		71	59	64	66	16	04	29.47	30.19		
12	OVC	060			10.00		85	65	72	51	8	23	29.34	30.04	12	FEW	NC			10.00		75	54	63	48	20	05	29.48	30.20		
15	SCT	NC			10.00		87	66	73	50	9	25	29.28	29.98	15	FEW	NC			10.00		76	48	60	37	14	03	29.46	30.18		
18	SCT	NC			8.00		86	66	73	51	10	25	29.26	29.96	18	FEW	NC			10.00		71	52	60	51	14	02	29.44	30.16		
21	SCT	NC			6.00	HZ	79	69	72	72	5	24	29.28	29.98	21	FEW	NC			10.00		66	58	61	75	7	01	29.49	30.22		
24	BKN	250			10.00		76	70	72	82	5	26	29.24	29.95	24	FEW	NC			10.00		64	59	61	84	6	01	29.49	30.21		
			SUNRISE: 0432				JUL 18	SUNSET: 1924										SUNRISE: 0437				JUL 24	SUNSET: 1919								
03	FEW	NC			10.00		75	69	71	82	6	27	29.24	29.94	03	FEW	NC			10.00		66	51	58	59	6	09	29.49	30.21		
06	FEW	NC			4.00	HZ	75	70	72	84	3	23	29.26	29.96	06	SCT	NC			10.00		68	55	60	63	8	10	29.51	30.23		
09	FEW	NC			6.00	HZ	84	68	73	59	7	25	29.26	29.96	09	BKN	250			10.00		73	48	59	41	8	08	29.52	30.24		
12	SCT	NC			8.00		89	63	72	42	6	VR	29.23	29.93	12	BKN	250			10.00		77	42	58	29	14	06	29.50	30.22		
15	SCT	NC			8.00		88	67	74	50	10	10	29.18	29.88	15	BKN	250			10.00		78	49	61	36	13	06	29.47			

OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

JULY 2002

ORD

WBAN # 94846

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
03	FEW	NC				10.00		68	64	66	87	9	16	29.38	30.10
06	BKN	200				10.00		68	54	60	61	9	16	29.37	30.09
09	OVC	200				10.00		72	59	64	64	6	19	29.35	30.07
12	OVC	150				10.00	-RA	74	63	67	69	7	17	29.32	30.03
15	BKN	150				10.00		77	67	70	71	12	18	29.26	29.96
18	BKN	150				10.00		79	70	73	74	8	19	29.22	29.93
21	SCT	NC				10.00		74	71	72	91	7	18	29.21	29.92
24	SCT	NC				10.00		75	71	72	88	9	20	29.19	29.90
SUNRISE: 0438 JUL 25 SUNSET: 1918															
03	BKN	095				7.00		74	70	71	88	9	21	29.17	29.88
06	OVC	041				5.00	HZ	75	70	72	84	3	27	29.19	29.89
09	BKN	070				5.00	HZ	78	71	73	79	5	25	29.21	29.91
12	OVC	200				6.00	HZ	83	74	77	74	7	20	29.17	29.87
15	BKN	200				8.00		85	74	77	70	6	21	29.13	29.83
18	BKN	200				10.00		85	74	77	70	7	VR	29.15	29.85
21	SCT	NC				10.00		76	70	72	82	3	22	29.17	29.87
24	BKN	180				10.00		71	69	70	94	5	19	29.16	29.86
SUNRISE: 0439 JUL 26 SUNSET: 1917															
03	OVC	180				10.00		76	73	74	91	5	24	29.15	29.86
06	OVC	140				8.00	-RA	73	72	72	96	8	24	29.17	29.87
09	OVC	140				8.00	-RA	72	72	72	100	0	00	29.15	29.85
12	BKN	180				10.00		77	74	75	90	12	19	29.10	29.81
15	BKN	200				10.00		86	76	79	72	13	22	29.02	29.72
18	BKN	060				10.00		87	75	78	67	9	21	29.03	29.73
21	FEW	NC				10.00		84	75	78	74	12	21	29.04	29.74
24	SCT	NC				10.00		83	76	78	79	12	22	29.04	29.74
SUNRISE: 0440 JUL 27 SUNSET: 1916															
03	SCT	NC				10.00		80	73	75	79	14	22	29.03	29.72
06	SCT	NC				10.00		79	73	75	82	12	23	29.07	29.77
09	BKN	200				10.00		83	74	77	74	14	24	29.09	29.79
12	BKN	036				10.00		87	77	80	72	10	26	29.10	29.80
15	BKN	200				10.00		85	77	79	77	13	22	29.10	29.80
18	SCT	NC				10.00		84	76	78	77	9	23	29.10	29.80
21	BKN	200				10.00		77	73	74	88	6	20	29.14	29.84
24	OVC	045				7.00	-TSRA	75	72	73	90	3	25	29.09	29.79
SUNRISE: 0441 JUL 28 SUNSET: 1915															
03	CLR	NC				10.00		73	72	72	96	7	18	29.07	29.77
06	BKN	085				8.00		75	73	74	94	5	26	29.08	29.79
09	OVC	075				10.00		75	72	73	90	6	24	29.07	29.78
12	OVC	095				10.00		77	72	74	85	8	25	29.09	29.80
15	BKN	047				10.00		81	69	73	67	12	29	29.09	29.79
18	SCT	NC				10.00		81	71	74	72	12	28	29.12	29.83
21	FEW	NC				10.00		75	71	72	88	5	24	29.17	29.88
24	CLR	NC				10.00		71	69	70	94	3	25	29.21	29.92
SUNRISE: 0442 JUL 29 SUNSET: 1914															
03	FEW	NC				7.00		70	68	69	93	7	27	29.24	29.95
06	SCT	NC				10.00		71	68	69	90	6	28	29.30	30.00
09	FEW	NC				10.00		81	67	72	62	3	VR	29.31	30.01
12	FEW	NC				10.00		88	68	74	52	9	24	29.30	30.00
15	FEW	NC				10.00		91	68	75	47	10	25	29.27	29.97
18	CLR	NC				10.00		87	70	75	57	9	24	29.24	29.94
21	CLR	NC				10.00		81	71	74	72	7	23	29.30	30.00
24	CLR	NC				10.00		78	72	74	82	7	21	29.27	29.97
SUNRISE: 0443 JUL 30 SUNSET: 1913															
03	SCT	NC				10.00		75	71	72	88	0	00	29.28	29.98
06	SCT	NC				10.00		73	71	72	94	0	00	29.30	30.01
09	FEW	NC				10.00		84	68	73	59	12	24	29.31	30.01
12	FEW	NC				10.00		91	61	71	37	12	25	29.28	29.98
15	FEW	NC				10.00		93	63	73	37	13	23	29.23	29.93
18															
21	CLR	NC				10.00		80	72	74	76	8	18	29.23	29.94
24	CLR	NC				10.00		75	72	73	90	6	18	29.23	29.93
SUNRISE: 0444 JUL 31 SUNSET: 1912															
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			72	65	68	81	29.31	30.02	9.40	6	1	25			
02			71	66	68	84	29.30	30.01	9.55	6	1	23			
03			71	66	68	84	29.30	30.01	9.65	6	1	22			
04			70	65	67	85	29.31	30.01	9.55	5	1	21			
05			70	65	67	85	29.32	30.03	9.26	6	1	25			
06			72	66	68	81	29.33	30.04	9.42	6	1	20			
07			75	65	69	71	29.34	30.05	9.26	7	1	24			
08			78	65	69	66	29.34	30.05	9.52	8	1	25			
09			79	65	70	62	29.34	30.05	9.55	7	2	23			
10			81	64	70	58	29.34	30.05	9.55	7	1	24			
11			82	64	71	56	29.33	30.04	9.52	9	0	0			
12			84	64	71	54	29.32	30.03	9.71	9	1	24			
13			84	64	71	54	29.31	30.02	9.52	10	2	25			
14			85	64	71	52	29.30	30.01	9.61	10	0	0			
15			85	64	71	51	29.29	30.00	9.74	11	1	29			
16			84	64	71	52	29.29	29.99	9.84	11	1	4			
17			84	64	71	53	29.28	29.99	9.77	11	1	35			
18			82	64	70	56	29.28	29.99	9.80	11	1	2			
19			80	64	70	59	29.29	30.00	9.74	9	0	0			
20			78	64	69	64	29.30	30.00	9.77	7	0	0			
21			76	65	69	70	29.31	30.01	9.68	7	1	14			
22			75	64	68	71	29.31	30.02	9.52	6	1	23			
23			73	65	68	76	29.31	30.02	9.61	6	1	24			
24			73	66	68	80	29.31	30.01	9.58	6	1	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 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.

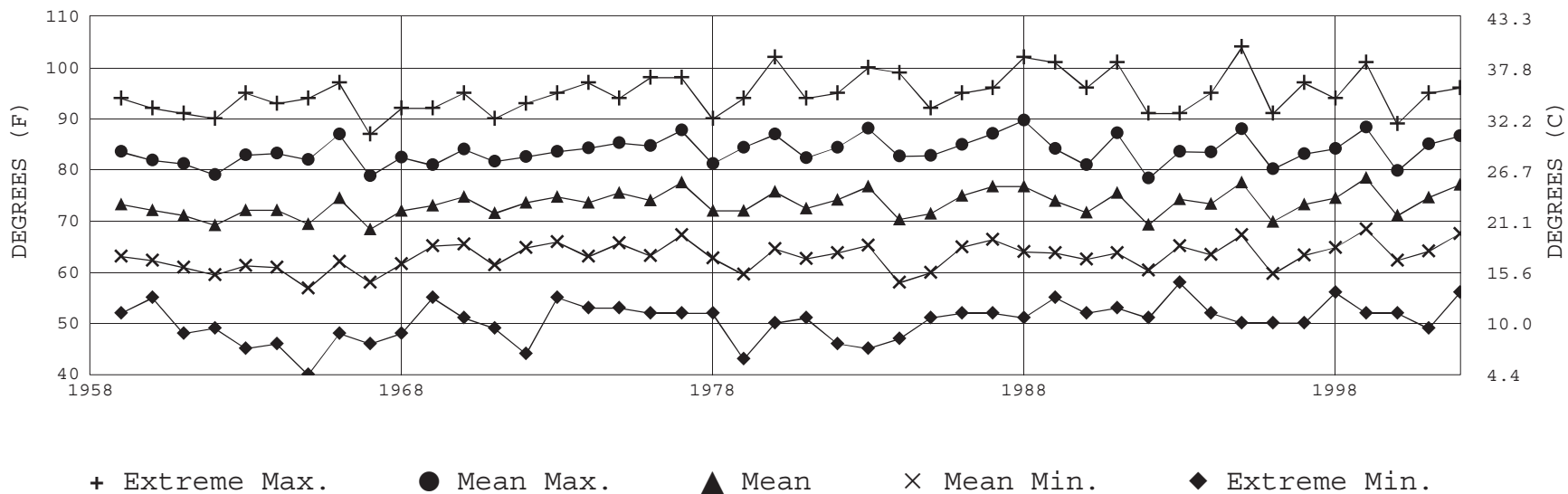
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

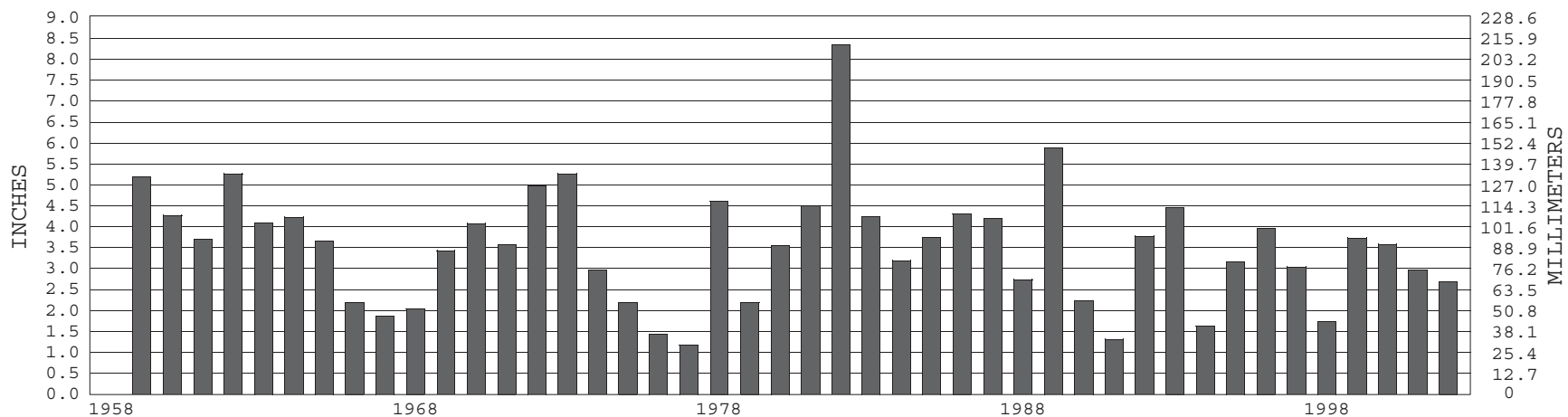
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			72	65	68	81	29.31	30.02	9.40	6	1	25
02			71	66	68	84	29.30	30.01	9.55	6	1	23
03			71	66	68	84	29.30	30.01	9.65	6	1	22
04			70	65	67	85	29.31	30.01	9.55	5	1	21
05			70	65	67	85	29.32	30.03	9.26	6	1	25
06			72	66	68	81	29.33	30.04	9.42	6	1	20
07			75	65	69	71	29.34	30.05	9.26	7	1	24
08			78	65	69	66	29.34	30.05	9.52	8	1	25
09			79	65	70	62	29.34	30.05	9.55	7	2	23
10			81	64	70	58	29.34	30.05	9.55	7	1	24
11			82	64	71	56	29.33	30.04	9.52	9	0	0
12			84	64	71	54	29.32	30.03	9.71	9	1	24
13			84	64	71	54	29.31	30.02	9.52	10	2	25
14			85	64	71	52	29.30	30.01	9.61	10	0	0
15			85	64	71	51	29.29	30.00	9.74	11	1	29
16			84	64	71	52	29.29	29.99	9.84	11	1	4
17			84	64	71	53	29.28	29.99	9.77	11	1	35
18			82	64	70	56	29.28	29.99	9.80	11	1	2
19			80	64	70	59	29.29	30.00	9.74	9	0	0
20			78	64	69	64	29.30	30.00	9.77	7	0	0
21			76	65	69	70	29.31	30.01	9.68	7	1	14
22			75	64	68	71	29.31	30.02	9.52	6	1	23
23			73	65	68	76	29.31	30.02	9.61	6	1	24
24			73	66	68	80	29.31	30.01	9.58	6	1	27

CHICAGO, IL JULY TEMPERATURES



Long-Term (1958-2002) Mean: 71.8 1961-1990 Normal: 73.3

CHICAGO, IL JULY PRECIPITATION



Long-Term (1958-2002) Mean Monthly Total: 3.45

1961-1990 Normal: 3.51



JULY 2002

CHICAGO, IL

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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