



# SEPTEMBER 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	85	62	74	6	66	69	0	9	BR	0		0.0	0.00	29.38	30.10	2.9	20	3.8	14	24	12	24	01											
02	82	66	74	6	69	71	0	9	TSRA RA BR HZ VCTS	0		0.0	0.65	29.18	29.89	7.5	19	10.5	25	22	21	03	02											
03	80	64	72	4	57	64	0	7		0		0.0	0.00	29.28	29.99	7.4	31	8.5	23	26	18	33	03											
04	84	59	72	4	57	63	0	7		0		0.0	0.00	29.46	30.17	4.0	01	5.8	24	06	13	07	04											
05	83	60	72	5	60	65	0	7		0		0.0	0.00	29.45	30.17	5.3	08	6.6	19	07	15	05	05											
06	85	57	71	4	61	65	0	6	BR	0		0.0	0.00	29.37	30.08	4.3	18	4.9	14	21	10	21	06											
07	89	59	74	7	62	66	0	9		0		0.0	0.00	29.42	30.13	2.7	12	3.5	23	07	13	06	07											
08	92*	60	76	10	66	70	0	11	BR HZ	0		0.0	0.00	29.45	30.16	1.1	09	2.6	20	09	12	08	08											
09	90	66	78*	12	69	73	0	13	BR HZ	0		0.0	0.00	29.39	30.10	2.2	25	3.1	13	30	12	30	09											
10	89	62	76	10	65	68	0	11	RA BR HZ	0		0.0	0.03	29.25	29.96	6.9	31	10.6	26	01	23	33	10											
11	75	52	64	-1	51	57	1	0		0		0.0	0.00	29.37	30.09	7.6	01	8.4	25	06	17	02	11											
12	78	49	64	-1	53	58	1	0		0		0.0	0.00	29.35	30.07	1.3	16	3.5	20	09	12	07	12											
13	77	51	64	-1	55	60	1	0	BR	0		0.0	0.00	29.28	30.00	2.6	14	3.4	21	08	12	10	13											
14	83	53	68	4	57	62	0	3	RA BR	0		0.0	T	29.19	29.90	4.1	26	5.9	21	31	18	32	14											
15	72	53	63	-1	56	60	2	0		0		0.0	0.00	29.37	30.08	9.8	02	10.8	28	04	18	04	15											
16	76	48	62	-2	52	57	3	0		0		0.0	0.00	29.37	30.09	1.8	23	3.1	14	02	9	25	16											
17	79	50	65	1	56	61	0	0	HZ	0		0.0	0.00	29.27	29.99	3.6	16	5.5	16	17	13	14	17											
18	80	62	71	7	66	68	0	6	RA BR HZ	0		0.0	0.21	29.06	29.77	6.6	19	8.2	20	20	15	17	18											
19	80	72	76	13	72	73	0	11	RA BR	0		0.0	0.05	28.95	29.65	10.6	19	10.8	26	22	21	22	19											
20	72	62	67	5	67	67	0	2	RA BR	0		0.0	0.39	28.93	29.64	10.0	21	11.1	28	21	21	21	20											
21	80	58	69	7	57	61	0	4		0		0.0	0.00	29.19	29.90	3.3	30	8.1	24	04	15	01	21											
22	66	45	56	-6	45	50	9	0	RA BR	0		0.0	0.27	29.38	30.11	6.7	29	9.1	24	32	20	31	22											
23	69	39*	54	-7	42	49	11	0		0		0.0	0.00	29.43	30.16	5.5	24	8.3	28	31	22	30	23											
24	61	42	52*	-9	41	47	13	0		0		0.0	0.00	29.58	30.31	3.0	02	7.2	21	31	16	33	24											
25	74	43	59	-2	48	53	6	0		0		0.0	0.00	29.48	30.21	4.4	14	5.3	18	15	14	15	25											
26	76	48	62	2	54	58	3	0	BR HZ	0		0.0	0.00	29.20	29.92	2.6	07	3.9	23	08	13	11	26											
27	67	53	60	0	55	57	5	0	BR	0		0.0	0.00	29.14	29.86	10.5	01	11.0	25	04	17	06	27											
28	74	50	62	3	57	59	3	0	RA BR HZ	0		0.0	T	29.37	30.09	3.1	11	5.3	20	10	15	11	28											
29	84	60	72	13	64	67	0	7	TSRA RA BR HZ	0		0.0	0.12	29.31	30.02	8.9	18	10.6	41*	34	33*	34	29											
30	85	68	77	18	57	64	0	12		0		0.0	0.00	29.22	29.92	12.1	21	12.2	26	21	21	20	30											
78.9										55.8	67.4	■ ■	57.9	62.1	1.9	4.5	< MONTHLY AVERAGES		TOTALS-->			0.0	1.72	29.30	30.02	2.3	20	7.1	<- MONTHLY AVERAGES					
5.0										2.1	3.6	■ ■	<-----DEPARTURE FROM NORMAL----->										-1.55		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.65			DATE :02			SEA LEVEL PRESSURE				DATE				TIME											
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0			DATE :			MAXIMUM				: 30.37				24 0956											
SEASON TO DATE									GREATEST SNOW DEPTH: 0			DATE :			MINIMUM				: 29.57				20 1356											
TOTAL DEPARTURE									NUMBER OF DAYS WITH ➔			MAXIMUM TEMP ≥ 90: 2			MINIMUM TEMP ≤ 32: 0			PRECIPITATION ≥ 0.01 INCH : 7																
HEATING: 58 -54									MAXIMUM TEMP ≤ 32: 0			MINIMUM TEMP ≤ 0: 0			PRECIPITATION ≥ 0.10 INCH : 5																			
COOLING: 134 43									THUNDERSTORMS : 2			HEAVY FOG : 0			SNOWFALL ≥ 1.0 INCH : 0																			
TOTAL DEPARTURE									TOTAL DEPARTURE			TOTAL DEPARTURE			TOTAL DEPARTURE			TOTAL DEPARTURE																

SEPTEMBER 2002  
CHICAGO, IL

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

CHICAGO, IL

SEPTEMBER 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								T	0.09	0.44	0.12	T	01												01		0.00		
02													02												02		0.65		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09			0.01	0.02	T	T					09		0.00			
10													10												10		0.03		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14			T									14		T		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18		T	0.02	0.10	0.09	T	T						18					T							18		0.21		
19					T	T	T	T	T		T	0.04	19	T		0.01		T	T					19		0.05			
20								0.03	0.21	0.11	0.01	T	20		T				0.03					20		0.39			
21													21												21		0.00		
22		0.02	0.09	0.08	0.04	0.04	T						22												22		0.27		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28											T	28		T		
29	T				0.11	0.01	T						29												29		0.12		
30													30												30		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)	.12	.15	.17	.20	.28	.38	.45	.53	.57	.64	.65	.65
Ending Date	02	02	02	20	02	02	02	02	02	02	02	02
Ending Time (Hour/Min)	0929	0930	0959	0858	0954	0959	0959	1017	1020	1020	1020	1020

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  
SEPTEMBER 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.

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## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

SEPTEMBER 2002

ORD

WBAN # 94846

HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)				SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)			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	RELATIVE HUMIDITY (PCT)
SUNRISE: 0517 SEP 01							SUNSET: 1827							SUNRISE: 0523 SEP 07							SUNSET: 1817								
03	CLR	NC			4.00	BR	65	65	65	100	3	17	29.45	30.17	03	CLR	NC			10.00	62	61	61	96	0	00	29.38	30.10	
06	CLR	NC			6.00	BR	65	64	64	97	0	00	29.47	30.19	06	FEW	NC			7.00	60	60	60	100	0	00	29.41	30.11	
09	FEW	NC			10.00		77	66	70	69	5	19	29.45	30.16	09	FEW	NC			10.00	78	63	68	60	3	16	29.43	30.15	
12	FEW	NC			8.00		82	65	71	56	3	26	29.40	30.12	12	CLR	NC			10.00	86	58	68	39	0	00	29.42	30.13	
15	SCT	NC			8.00		83	66	72	57	7	23	29.34	30.05	15	CLR	NC			10.00	86	64	72	48	10	08	29.40	30.12	
18	SCT	NC			7.00		79	67	71	67	5	20	29.30	30.01	18	CLR	NC			10.00	81	61	68	51	8	10	29.40	30.12	
21	SCT	NC			7.00		75	69	71	82	6	19	29.31	30.01	21	CLR	NC			10.00	68	63	65	84	8	15	29.44	30.16	
24	CLR	NC			6.00	BR	71	68	69	90	5	19	29.28	29.99	24	CLR	NC			10.00	65	64	64	97	0	00	29.43	30.15	
SUNRISE: 0518 SEP 02							SUNSET: 1825							SUNRISE: 0524 SEP 08							SUNSET: 1815								
03	FEW	NC			7.00		72	66	68	82	8	19	29.23	29.93	03	CLR	NC			5.00	BR	62	62	62	100	0	00	29.44	30.16
06	BKN	250			5.00	BR	68	66	67	93	5	16	29.23	29.94	06	CLR	NC			4.00	BR	62	62	62	100	0	00	29.48	30.20
09	OVC	043			5.00	-TSRA BR	67	66	66	97	6	34	29.31	30.02	09	CLR	NC			9.00	81	67	72	62	0	00	29.49	30.21	
12	BKN	200			10.00		71	69	70	94	12	18	29.18	29.88	12	CLR	NC			9.00	89	68	75	50	0	00	29.45	30.16	
15	BKN	200			10.00		80	69	73	69	14	19	29.11	29.82	15	FEW	NC			8.00	90	68	75	49	9	07	29.41	30.12	
18	FEW	NC			9.00		81	72	75	74	13	20	29.07	29.77	18	SCT	NC			8.00	85	66	72	53	6	09	29.41	30.13	
21	FEW	NC			10.00		80	71	74	74	14	21	29.11	29.81	21	CLR	NC			8.00	80	66	71	62	6	11	29.43	30.15	
24	FEW	NC			9.00		78	71	73	79	10	23	29.12	29.83	24	CLR	NC			5.00	BR	73	69	70	87	5	27	29.44	30.15
SUNRISE: 0519 SEP 03							SUNSET: 1824							SUNRISE: 0525 SEP 09							SUNSET: 1813								
03	CLR	NC			10.00		71	61	65	71	15	33	29.16	29.87	03	CLR	NC			4.00	BR	70	69	69	97	0	00	29.43	30.14
06	FEW	NC			10.00		66	58	61	75	6	33	29.25	29.96	06	CLR	NC			4.00	BR	68	68	68	100	0	00	29.44	30.16
09	CLR	NC			10.00		74	55	63	52	8	33	29.29	30.00	09	CLR	NC			7.00	84	72	76	67	3	27	29.44	30.15	
12	CLR	NC			10.00		78	54	64	43	10	32	29.30	30.01	12	SCT	NC			8.00	88	69	75	54	5	VR	29.40	30.12	
15	CLR	NC			10.00		80	53	64	39	13	31	29.30	30.01	15	SCT	NC			9.00	89	69	75	52	6	VR	29.35	30.06	
18	CLR	NC			10.00		76	55	63	48	9	29	29.32	30.03	18	FEW	NC			8.00	85	68	73	57	6	29	29.34	30.04	
21	CLR	NC			10.00		69	57	62	66	7	28	29.34	30.06	21	CLR	NC			8.00	76	70	72	82	3	19	29.34	30.05	
24	CLR	NC			10.00		64	57	60	78	5	28	29.37	30.09	24	CLR	NC			5.00	BR	73	70	71	90	0	00	29.31	30.02
SUNRISE: 0520 SEP 04							SUNSET: 1822							SUNRISE: 0526 SEP 10							SUNSET: 1812								
03	CLR	NC			10.00		62	56	59	81	3	30	29.40	30.11	03	CLR	NC			4.00	BR	72	69	70	91	5	25	29.28	29.98
06	CLR	NC			10.00		63	56	59	78	6	31	29.45	30.17	06	SCT	NC			4.00	BR	70	67	68	90	3	24	29.27	29.98
09	FEW	NC			10.00		76	56	64	50	6	36	29.49	30.21	09	BKN	060			8.00	80	67	71	64	7	25	29.24	29.95	
12	FEW	NC			10.00		81	53	64	38	8	01	29.47	30.19	12	BKN	250			10.00	86	65	72	50	14	27	29.20	29.91	
15	FEW	NC			10.00		83	54	65	37	7	02	29.45	30.17	15	OVC	150			10.00	83	67	72	59	16	33	29.18	29.88	
18	FEW	NC			10.00		75	57	64	54	9	06	29.46	30.18	18	OVC	017			10.00	-RA	70	67	68	90	17	34	29.22	29.93
21	CLR	NC			10.00		70	62	65	76	3	VR	29.47	30.19	21	OVC	040			10.00	68	59	63	73	15	02	29.30	30.01	
24	CLR	NC			10.00		61	61	61	100	0	00	29.48	30.19	24	SCT	NC			10.00	62	54	57	75	13	36	29.32	30.03	
SUNRISE: 0521 SEP 05							SUNSET: 1820							SUNRISE: 0527 SEP 11							SUNSET: 1810								
03	CLR	NC			10.00		65	62	63	90	5	06	29.45	30.17	03	FEW	NC			10.00	59	54	56	83	8	35	29.33	30.03	
06	FEW	NC			10.00		67	61	63	81	8	11	29.47	30.19	06	FEW	NC			10.00	59	54	56	83	10	33	29.37	30.09	
09	FEW	NC			10.00		74	57	64	56	5	15	29.48	30.20	09	FEW	NC			10.00	68	58	62	70	8	01	29.40	30.12	
12	FEW	NC			10.00		81	51	63	35	6	VR	29.46	30.18	12	SCT	NC			10.00	73	54	62	51	10	04	29.38	30.10	
15	FEW	NC			10.00		77	58	65	52	14	07	29.44	30.16	15	FEW	NC			10.00	73	43	57	34	15	02	29.36	30.09	
18	FEW	NC			10.00		71	62	65	73	12	07	29.42	30.14	18	FEW	NC			10.00	69	43	55	39	9	02	29.36	30.09	
21	CLR	NC			10.00		69	62	65	78	0	00	29.41	30.13	21	FEW	NC			10.00	65	46	55	51	5	01	29.37	30.09	
24	CLR	NC			10.00		63	63	63	100	0	00	29.39	30.11	24	FEW	NC			10.00	54	51	52	90	0	00	29.36	30.09	
SUNRISE: 0522 SEP 06							SUNSET: 1818							SUNRISE: 0528 SEP 12							SUNSET: 1808								
03	CLR	NC			6.00	BR	63	63	63	100	6	15	29.38	30.10	03	FEW	NC			10.00	55	51	53	87	3	26	29.36	30.08	
06	SCT	NC			10.00		60	59	59	96	8	16	29.40	30.12	06	CLR	NC			10.00	54	52	53	93	0	00	29.39	30.11	
09	FEW	NC			10.00		74	62	66	67	5	19	29.41	30.13	09	FEW	NC			10.00	70	58	63	66	5	24	29.40	30.13	
12	SCT	NC			10.00		81	62	69	53	5	18	29.37	30.09	12	SCT	NC			10.00	74	50	60	43	0	00	29.35	30.08	
15	SCT	NC			10.00		84	60	69	44	6	17	29.32	30.03	15	SCT	NC			10.00	77	49	61	37	5	VR	29.32	30.04	
18	FEW	NC			10.00		77	60	66	56	6	18	29.33	30.03	18	SCT	NC			10.00	72	51	60	48	8	09	29.32	30.03	
21	CLR	NC			10.00		71	60	64	68	5	19	29.35	30.07	21	BKN	250			10.00	61	55	58	81	5	19	29.34	30.05	
24	CLR	NC			10.00		65	60	62	84	0	00	29.36	30.08	24	SCT	NC			9.00	59	57	58	93	0	00	29.32	30.03	

## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

SEPTEMBER 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>Okta</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>Okta</i>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0530 SEP 13						SUNSET: 1806						SUNRISE: 0536 SEP 19						SUNSET: 1754											
03	CLR	NC			10.00	BR	54	54	54	100	0	00	29.31	30.02	03	OVC	020			10.00	74	69	71	85	14	19	28.98	29.68	
06	SCT	NC			6.00		53	53	53	100	0	00	29.34	30.05	06	OVC	017			10.00	73	71	72	94	12	19	28.99	29.69	
09	BKN	250			10.00		71	55	62	57	0	00	29.34	30.07	09	BKN	023			9.00	75	73	74	94	8	18	28.96	29.67	
12	BKN	250			10.00		75	52	62	45	3	17	29.30	30.02	12	OVC	022			6.00	76	75	75	97	12	18	28.93	29.64	
15	OVC	250			10.00		76	51	61	42	3	15	29.27	29.98	15	OVC	150		-RA BR	10.00	78	73	75	85	9	22	28.90	29.60	
18	BKN	250			10.00	73	55	62	53	9	09	29.24	29.95	18	BKN	250			10.00	77	70	72	79	9	20	28.93	29.63		
21	SCT	NC			10.00	63	57	60	81	8	15	29.24	29.95	21	OVC	090			10.00	76	70	72	82	10	21	28.95	29.65		
24	CLR	NC			8.00	60	60	60	100	0	00	29.21	29.92	24	BKN	012			10.00	72	72	72	100	10	18	28.96	29.66		
SUNRISE: 0531 SEP 14						SUNSET: 1805						SUNRISE: 0537 SEP 20						SUNSET: 1752											
03	CLR	NC			8.00	BR	57	56	56	96	0	00	29.19	29.90	03	OVC	014			10.00	71	69	70	94	9	18	28.92	29.62	
06	CLR	NC			6.00		56	55	55	97	0	00	29.20	29.91	06	OVC	014			10.00	71	69	70	94	12	20	28.93	29.63	
09	BKN	250			10.00		73	54	62	51	5	22	29.19	29.90	09	OVC	010		+RA BR	10.00	70	70	70	100	12	18	28.91	29.62	
12	BKN	200			10.00		81	53	64	38	10	23	29.16	29.87	12	SCT	NC			10.00	70	67	68	90	16	21	28.89	29.59	
15	OVC	200			10.00		79	57	65	47	7	25	29.14	29.85	15	OVC	024			10.00	69	65	66	87	9	21	28.87	29.58	
18	OVC	110			10.00	76	58	65	54	6	25	29.16	29.87	18	OVC	035		-RA	10.00	67	63	64	87	15	28	28.91	29.62		
21	BKN	033			10.00	71	62	65	73	12	32	29.23	29.94	21	OVC	023			10.00	64	63	63	96	10	24	29.00	29.71		
24	OVC	200			9.00	66	62	64	87	7	35	29.26	29.97	24	CLR	NC			10.00	62	61	61	96	7	22	29.04	29.75		
SUNRISE: 0532 SEP 15						SUNSET: 1803						SUNRISE: 0538 SEP 21						SUNSET: 1751											
03	OVC	150			7.00	65	63	64	93	7	01	29.30	30.01	03	CLR	NC			10.00	61	60	60	97	10	25	29.07	29.78		
06	OVC	022			10.00	64	59	61	84	12	01	29.35	30.06	06	FEW	NC			10.00	59	58	58	96	6	23	29.15	29.87		
09	BKN	050			10.00	64	58	60	81	10	01	29.38	30.10	09	FEW	NC			10.00	66	58	61	75	6	25	29.20	29.91		
12	OVC	032			10.00	70	58	63	66	15	04	29.39	30.11	12	CLR	NC			10.00	76	56	64	50	8	25	29.19	29.90		
15	CLR	NC			10.00	69	53	60	57	17	06	29.37	30.10	15	FEW	NC			10.00	79	55	64	44	5	26	29.18	29.88		
18	FEW	NC			10.00	64	52	57	65	10	04	29.38	30.11	18	FEW	NC			10.00	68	63	65	84	10	03	29.21	29.93		
21	CLR	NC			10.00	56	52	54	87	3	35	29.39	30.12	21	SCT	NC			10.00	64	59	61	84	9	01	29.29	30.00		
24	CLR	NC			10.00	54	52	53	93	5	28	29.38	30.11	24	OVC	070			10.00	61	45	53	56	12	36	29.31	30.02		
SUNRISE: 0533 SEP 16						SUNSET: 1759						SUNRISE: 0539 SEP 22						SUNSET: 1749											
03	CLR	NC			10.00	52	51	52	97	5	30	29.37	30.10	03	OVC	055		+RA BR	4.00	51	49	50	92	8	35	29.36	30.09		
06	CLR	NC			10.00	50	50	50	100	0	00	29.41	30.14	06	OVC	055		-RA	10.00	51	51	51	100	7	16	29.38	30.10		
09	FEW	NC			10.00	67	50	58	55	5	VR	29.43	30.15	09	BKN	100			10.00	53	51	52	93	5	24	29.38	30.11		
12	CLR	NC			10.00	72	52	60	50	0	00	29.40	30.13	12	FEW	NC			10.00	62	51	56	67	7	VR	29.36	30.09		
15	CLR	NC			10.00	75	50	61	42	9	24	29.35	30.07	15	FEW	NC			10.00	65	36	51	34	17	30	29.34	30.07		
18	CLR	NC			10.00	67	51	58	57	3	23	29.32	30.04	18	FEW	NC			10.00	59	38	49	46	9	29	29.36	30.09		
21	CLR	NC			10.00	59	55	57	87	0	00	29.33	30.05	21	FEW	NC			10.00	53	42	48	66	7	31	29.42	30.15		
24	CLR	NC			10.00	55	54	54	96	0	00	29.33	30.05	24	FEW	NC			10.00	45	42	44	90	0	00	29.46	30.19		
SUNRISE: 0534 SEP 17						SUNSET: 1758						SUNRISE: 0540 SEP 23						SUNSET: 1747											
03	CLR	NC			10.00	53	52	52	96	0	00	29.33	30.04	03	CLR	NC			10.00	44	43	44	96	0	00	29.46	30.19		
06	FEW	NC			8.00	52	51	52	97	0	00	29.34	30.07	06	FEW	NC			10.00	44	42	43	93	0	00	29.46	30.20		
09	SCT	NC			10.00	71	58	63	63	3	VR	29.35	30.08	09	FEW	NC			10.00	58	41	50	54	7	21	29.48	30.22		
12	BKN	200			10.00	77	57	65	50	8	23	29.31	30.02	12	FEW	NC			10.00	65	40	52	40	13	20	29.44	30.17		
15	BKN	200			10.00	79	54	64	42	7	16	29.23	29.94	15	FEW	NC			10.00	69	40	54	35	14	19	29.37	30.10		
18	OVC	200			10.00	73	57	63	57	9	13	29.22	29.93	18	SCT	NC			10.00	66	42	54	42	10	20	29.34	30.07		
21	SCT	NC			10.00	69	60	64	73	7	10	29.20	29.91	21	SCT	NC			10.00	59	40	50	49	17	30	29.41	30.14		
24	OVC	150			10.00	69	60	64	73	8	13	29.15	29.86	24	CLR	NC			10.00	50	40	45	68	13	31	29.48	30.21		
SUNRISE: 0535 SEP 18						SUNSET: 1756						SUNRISE: 0541 SEP 24						SUNSET: 1746											
03	OVC	021			6.00	-RA BR	64	63	63	96	0	00	29.09	29.80	03	CLR	NC			10.00	46	40	43	79	12	33	29.53	30.26	
06	OVC	017			1.50		63	63	63	100	7	25	29.08	29.79	06	FEW	NC			10.00	42	39	41	89	8	32	29.58	30.32	
09	SCT	NC			6.00		68	64	66	87	10	21	29.12	29.83	09	FEW	NC			10.00	52	40	46	64	8	36	29.63	30.36	
12	OVC	150			9.00		72	65	67	79	9	19	29.10	29.81	12	FEW	NC			10.00	58	38	48	48	3	VR	29.62	30.35	
15	BKN	250			7.00		79	70	73	74	10	18	29.03	29.74	15	FEW	NC			10.00	60	39	50	46	5	VR	29.58	30.32	
18	BKN	200			8.00	77	70	72	79	10	18	29.00	29.70	18	CLR	NC			10.00	56	44	50	65	10	09	29.57	30.31		
21	SCT	NC			10.00	74	69	71	85	8	18	29.01	29.71	21	CLR	NC			10.00	54	46	50	75	9	12	29.57	30.30		
24	BKN	200			10.00	73	69	70	87	9	18	28.99	29.70	24	CLR	NC			10.00	47	47	47	100	0	00	29.57	30.30		

## OBSERVATIONS AT 3-HOURLY INTERVALS

CHICAGO, IL

SEPTEMBER 2002

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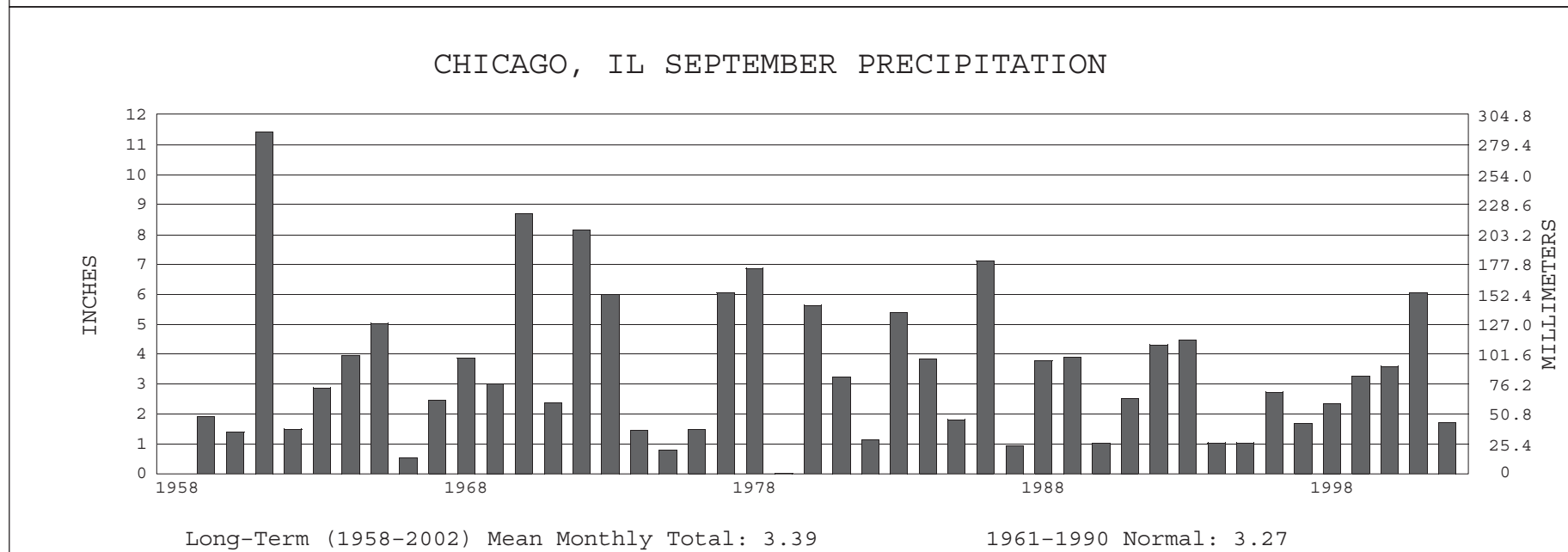
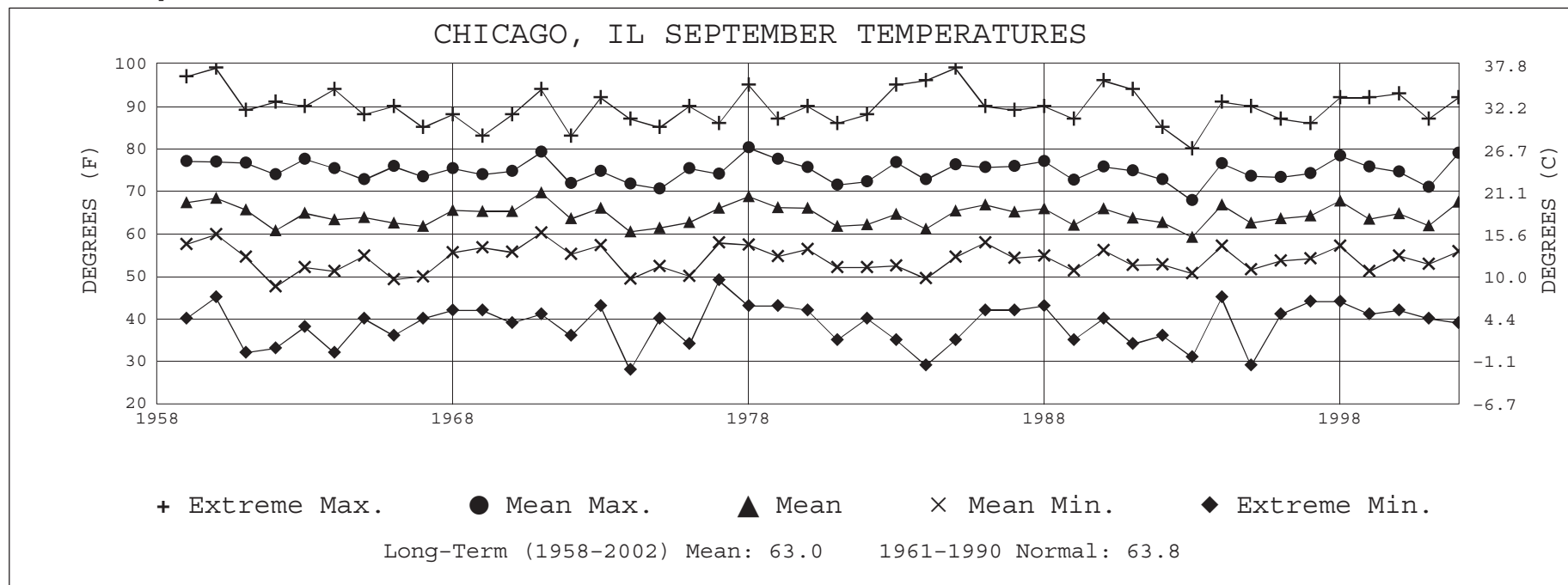
WBAN # 94846

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		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					OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0542 SEP 25 SUNSET: 1744																																
03	CLR	NC			10.00			48	46	47	93	0	00	29.59	30.32																	
06	FEW	NC			10.00			47	46	46	97	6	16	29.56	30.30																	
09	FEW	NC			10.00			62	47	54	58	8	17	29.56	30.29																	
12	FEW	NC			10.00			69	45	56	42	9	16	29.49	30.22																	
15	CLR	NC			10.00			73	41	56	32	8	14	29.41	30.13																	
18	CLR	NC			10.00			67	49	57	53	7	09	29.40	30.13																	
21	CLR	NC			10.00			62	55	58	78	8	11	29.39	30.12																	
24	CLR	NC			10.00			56	55	55	97	3	16	29.34	30.06																	
SUNRISE: 0543 SEP 26 SUNSET: 1742																																
03	CLR	NC			10.00			53	51	52	93	0	00	29.32	30.03																	
06	FEW	NC			4.00	BR		49	49	49	100	0	00	29.30	30.02																	
09	CLR	NC			7.00			66	54	59	65	3	12	29.28	30.00																	
12	SCT	NC			10.00			75	50	61	42	6	16	29.21	29.92																	
15	BKN	200			10.00			72	51	60	48	10	08	29.14	29.85																	
18	OVC	200			10.00			67	52	58	59	8	08	29.12	29.84																	
21	OVC	200			7.00			63	60	61	90	5	VR	29.09	29.80																	
24	CLR	NC			3.00	BR		62	62	62	100	6	03	29.05	29.76																	
SUNRISE: 0544 SEP 27 SUNSET: 1740																																
03	OVC	002			1.00	BR		60	60	60	100	10	36	29.02	29.73																	
06	OVC	004			2.00	BR		59	59	59	100	12	36	29.04	29.75																	
09	OVC	006			3.00	BR		59	58	58	96	12	35	29.08	29.80																	
12	OVC	014			9.00			63	58	60	84	10	35	29.10	29.82																	
15	OVC	027			10.00			63	56	59	78	12	04	29.15	29.86																	
18	BKN	095			10.00			59	51	55	75	10	02	29.24	29.96																	
21	FEW	NC			10.00			55	44	50	67	7	35	29.28	30.01																	
24	SCT	NC			10.00			53	47	50	80	7	36	29.32	30.03																	
SUNRISE: 0545 SEP 28 SUNSET: 1739																																
03	CLR	NC			10.00			52	48	50	86	0	00	29.35	30.07																	
06	SCT	NC			8.00			53	51	52	93	3	05	29.40	30.13																	
09	OVC	016			7.00			62	58	60	86	12	13	29.43	30.16																	
12	FEW	NC			5.00	HZ		68	59	63	73	0	00	29.40	30.12																	
15	SCT	NC			9.00			74	58	64	57	5	16	29.34	30.06																	
18	SCT	NC			5.00	HZ		67	62	64	84	7	08	29.34	30.06																	
21	OVC	150			4.00	BR		66	62	64	87	9	14	29.34	30.06																	
24	OVC	120			3.00	BR		62	61	61	96	0	00	29.36	30.08																	
SUNRISE: 0546 SEP 29 SUNSET: 1737																																
03	BKN	120			6.00	BR		62	59	60	90	7	17	29.32	30.03																	
06	OVC	060			3.00	-RA BR		63	63	63	100	13	12	29.38	30.10																	
09	SCT	NC			3.00	BR		67	65	66	93	13	14	29.37	30.10																	
12	FEW	NC			9.00			77	65	69	66	8	22	29.33	30.04																	
15	CLR	NC			10.00			84	65	71	53	14	19	29.25	29.96																	
18	CLR	NC			10.00			79	65	70	62	8	19	29.25	29.96																	
21	CLR	NC			10.00			77	64	69	64	13	20	29.28	29.99																	
24	CLR	NC			10.00			73	63	67	71	14	21	29.26	29.96																	
SUNRISE: 0547 SEP 30 SUNSET: 1735																																
03	SCT	NC			10.00			70	60	64	71	12	21	29.26	29.96																	
06	BKN	200			10.00			69	60	64	73	12	22	29.28	29.99																	
09	BKN	250			10.00			73	61	66	66	12	21	29.28	29.98																	
12	CLR	NC			10.00			81	58	67	46	14	22	29.23	29.93																	
15	CLR	NC			10.00			85	54	66	35	16	21	29.16	29.87																	
18	FEW	NC			10.00			79	50	62	36	12	20	29.16	29.87																	
21	CLR	NC			10.00			75	54	63	48	9	20	29.18	29.88																	
24	FEW	NC			10.00			74	56	63	54	13	22	29.19	29.89																	

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 Visibilty = 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.

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			62	58	60	89	29.30	30.02	8.40	5	1	26
02			61	58	59	91	29.30	30.02	8.33	5	1	28
03			61	58	59	91	29.30	30.02	8.07	5	1	27
04			60	57	58	92	29.30	30.02	8.12	5	1	30
05			59	57	58	92	29.32	30.03	8.13	5	1	31
06			59	57	58	93	29.33	30.05	7.62	5	1	21
07			63	59	61	86	29.33	30.05	7.97	5	1	30
08			67	59	62	77	29.34	30.06	8.53	7	0	0
09			69	59	63	71	29.34	30.06	8.53	6	2	21
10			72	59	64	65	29.34	30.05	8.85	6	3	20
11			74	58	64	60	29.32	30.04	9.53	7	3	20
12			75	57	64	56	29.31	30.02	9.43	7	3	22
13			77	57	65	52	29.29	30.00	9.60	9	3	21
14			78	57	65	50	29.28	29.99	9.70	10	3	21
15			77	56	65	50	29.27	29.98	9.70	9	1	18
16			76	56	64	52	29.27	29.98	9.57	9	1	17
17			75	58	64	57	29.27	29.98	9.57	10	2	13
18			72	57	63	62	29.27	29.99	9.50	9	1	10
19			70	58	63	68	29.28	30.00	9.60	8	1	14
20			68	59	62	73	29.29	30.01	9.53	7	1	19
21			67	58	62	75	29.29	30.01	9.47	7	2	20
22			66	58	61	78	29.30	30.01	9.33	7	2	25
23			64	58	61	83	29.29	30.01	9.23	6	2	25
24			63	58	60	87	29.29	30.01	8.90	5	1	25







SEPTEMBER 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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