



# APRIL 2003

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# DUBUQUE, IA

MUNICIPAL AIRPORT (DBQ)  
 Lat: 42° 23' N Long: 90° 42' W Elev (Ground): 1069 Feet  
 Time Zone: CENTRAL WBAN: 94908 ISSN #: 0198-2087

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			
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	81	40	61	19	39	50	4	0				0.0	0.00	28.49	29.63	10.6	22	11.1	21	24	18	24	01	
02	73	39	56	14	42	48	9	0	HZ			0.0	0.00	28.59	29.73	9.5	06	13.3	29	04	25	05	02	
03	47	35	41	-2	37	39	24	0	RA FG+ BR HZ			0.0	T	28.58	29.74	13.2	06	13.8	25	06	23	08	03	
04	35	23	29	-14	30	31	36	0	TS RA SN GS FG+ BR UP			T	0.14	28.56	29.73	17.0	03	18.0	38	05	30	04	04	
05	35	19	27	-16	18	24	38	0				0.0	0.00	28.96	30.16	7.1	36	9.3	21	33	17	34	05	
06	41	23	32	-12	21	28	33	0	SN			0.2	0.02	29.06	30.26	15.2	08	15.9	38	08	31	07	06	
07	31	26	29	-15	26	27	36	0	SN FZFG BR			2.5	0.25	28.96	30.16	17.0	05	17.3	36	06	30	07	07	
08	35	17	26*	-19	22	25	39	0	SN BR			T	T	29.18	30.38	8.8	03	9.1	22	02	17	03	08	
09	47	13*	30	-15	17	27	35	0	FG+ FZFG BR			0.0	0.00	29.12	30.33	0.6	35	1.0	7	01	7	03	09	
10	61	26	44	-1	24	36	21	0				0.0	0.00	28.97	30.15	5.1	20	5.3	16	25	13	20	10	
11	72	35	54	8	36	46	11	0				0.0	0.00	28.81	29.97	3.4	30	6.6	17	33	14	32	11	
12	64	37	51	5	31	42	14	0				0.0	0.00	28.94	30.11	5.7	05	6.8	18	09	15	08	12	
13	68	30	49	3	33	43	16	0				0.0	0.00	28.98	30.15	10.3	16	10.6	24	16	20	17	13	
14	85*	49	67	20	45	55	0	2				0.0	0.00	28.78	29.92	17.5	20	17.9	37	20	30	20	14	
15	84	60	72*	25	51	59	0	7	RA			0.0	T	28.58	29.70	16.8	20	17.2	33	21	28	20	15	
16	66	37	52	4	42	47	13	0	RA BR			0.0	0.06	28.57	29.71	16.2	06	18.5	37	06	33*	06	16	
17	51	36	44	-4	34	39	21	0				0.0	0.00	28.76	29.93	11.1	04	11.7	32	04	24	05	17	
18	50	41	46	-2	37	42	19	0	RA BR HZ			0.0	T	28.83	30.00	10.3	09	11.5	30	11	23	11	18	
19	69	44	57	8	53	55	8	0	TS TSRA RA BR HZ			0.0	0.66	28.66	29.81	12.6	15	14.5	39	16	32	17	19	
20	58	44	51	2	46	48	14	0	RA BR			0.0	0.19	28.62	29.77	14.0	25	14.6	29	25	24	25	20	
21	52	38	45	-5	38	42	20	0	RA BR			0.0	T	28.71	29.88	12.2	32	14.8	29	34	23	34	21	
22	60	35	48	-2	28	39	17	0				0.0	0.00	28.93	30.11	7.0	35	7.2	21	34	17	31	22	
23	64	36	50	0	29	41	15	0				0.0	0.00	28.93	30.10	8.5	13	9.0	24	12	18	11	23	
24	59	45	52	2	28	42	13	0				0.0	0.00	28.74	29.90	12.2	09	13.1	23	13	18	06	24	
25	67	41	54	3	31	44	11	0				0.0	0.00	28.66	29.81	11.9	05	12.5	28	04	22	03	25	
26	67	33	50	-2	33	43	15	0				0.0	0.00	28.77	29.92	4.0	16	5.9	16	21	12	16	26	
27	75	43	59	7	44	52	6	0				0.0	0.00	28.76	29.91	12.5	20	13.0	29	21	23	21	27	
28	70	48	59	6	38	50	6	0				0.0	0.00	28.81	29.95	9.4	33	10.5	23	31	16	30	28	
29	60	45	53	0	41	47	12	0	RA			0.0	0.01	28.88	30.03	3.6	04	7.5	17	07	16	08	29	
30	51	47	49	-4	48	48	16	0	TSRA RA BR			0.0	1.51	28.66	29.81	9.3	06	11.3	40*	27	31	28	30	

59.3	36.2	47.8	■ ■	34.7	42.0	17.4	0.3	< MONTHLY AVERAGES	TOTALS-->	2.7	2.84	28.80	29.96	3.2	08	11.6	<-- MONTHLY AVERAGES
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1.9	-1.3	0.3	■ ■	-----DEPARTURE FROM NORMAL----->							- .65	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 1.51 DATE :30				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 2.5 DATE :07				MINIMUM : 30.41 08 2055			
HEATING: 522 -14 6999 -5				COOLING: 9 3 9 3				GREATEST SNOW DEPTH: DATE :				MINIMUM : 29.58 01 1655			
NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 8				PRECIPITATION ≥ 0.01 INCH : 8			
				MAXIMUM TEMP ≤ 32 : 1				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 5			
				THUNDERSTORMS : 3				HEAVY FOG : 3				SNOWFALL ≥ 1.0 INCH : 1			

APRIL 2003  
DUBUQUE, IA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## DUBUQUE, IA

APRIL 2003

DBQ

WBAN # 94908

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												02		0.00		
03													03												03		T		
04				T				T	T				04			0.01	T	0.12	T	T	T	T			04		0.14		
05												0.01	05												05		0.00		
06													06												06	T	0.02		
07	0.02	0.04	0.07	0.04	0.02	T	T	0.01	T	T	T	T	07	0.01	T	0.01	T	T	T	0.01	T	T	0.01	T	07	0.24	0.25		
08	T												08												08		T		
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							T					15		T		
16						T	T						16							0.01	0.04	T	0.01		16		0.06		
17													17												17		0.00		
18													18				T	T	T	T					18		T		
19			0.05	0.04	0.05	0.01							19		0.35	0.09	0.01	0.02	T	T					19		0.66		
20	0.06	0.02	T					0.02	0.05	T	0.01		20				T	0.02		0.01					20		0.19		
21			T										21												21		T		
22													22												22		0.00		
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												28		0.00		
29													29												29		0.01		
30		T	0.04	0.11	0.15	0.16	0.11	0.10	0.05	T		0.10	30	0.12	0.08	0.01	0.06	0.01	T	T			0.01	0.02	0.02	0.10	0.15	1.39	1.51

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.11	.17	.21	.25	.29	.34	.37	.40	.43	.45	.45	.45
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	1317	1319	1324	1328	1337	1355	1405	1423	1450	1501	1501	1501

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.

## REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = 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

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971–2000

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    ' ' = Moderate    '-' = Light

## DUBUQUE, IA APRIL 2003

Ceilorometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

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.

### ADDITIONAL NOTES:

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							4.00	10.00	
03							.25	9.00	
04							.25	10.00	
05							10.00	10.00	
06							2.00	10.00	
07							.50	7.00	
08							5.00	10.00	
09							.25	10.00	
10							10.00	10.00	
11							7.00	10.00	
12							7.00	10.00	
13							9.00	10.00	
14							9.00	10.00	
15							10.00	10.00	
16							4.00	10.00	
17							7.00	10.00	
18							4.00	8.00	
19							.75	10.00	
20							2.00	10.00	
21							3.00	10.00	
22							10.00	10.00	
23							7.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							7.00	10.00	
28							10.00	10.00	
29							9.00	10.00	
30							1.00	10.00	
<b>MONTHLY AVGS</b>							6.15	9.80	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:                      Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0									
3                      9                      18									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## DUBUQUE, IA

APRIL 2003

DBQ

WBAN # 94908

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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 Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0546 APR 01 SUNSET: 1827</b>																													
03	CLR	NC	10.00		46	38	42	73	10	21	28.46	29.60	03	OVC	005	0.50	SN FZFG	29	28	29	96	15	06	28.87	30.06				
06	CLR	NC	10.00		44	37	41	76	10	22	28.49	29.64	06	OVC	009	0.75	-SN BR	27	26	27	96	24	05	28.86	30.05				
09	CLR	NC	10.00		62	40	51	44	15	25	28.52	29.66	09	OVC	013	1.75	-SN BR	28	25	27	88	14	06	28.91	30.10				
12	CLR	NC	10.00		71	40	55	32	12	22	28.52	29.65	12	OVC	012	1.25	-SN BR	29	26	28	89	16	05	28.92	30.11				
15	CLR	NC	10.00		80	40	58	24	15	22	28.46	29.59	15	OVC	006	1.25	-SN BR	29	27	28	92	18	04	28.96	30.16				
18	CLR	NC	10.00		75	40	56	28	9	21	28.46	29.59	18	OVC	008	1.00	-SN BR	28	26	27	92	14	04	29.02	30.22				
21	CLR	NC	10.00		60	39	50	46	8	20	28.53	29.66	21	OVC	009	2.50	-SN BR	27	25	26	92	13	03	29.10	30.30				
24	CLR	NC	10.00		54	40	47	59	9	21	28.56	29.69	24	OVC	011	5.00	-SN BR	26	23	25	88	14	03	29.13	30.33				
<b>SUNRISE: 0544 APR 02 SUNSET: 1828</b>																													
03	CLR	NC	10.00		50	39	45	66	6	13	28.57	29.70	03	OVC	011	10.00		25	22	24	88	12	02	29.13	30.33				
06	CLR	NC	10.00		47	40	44	77	6	16	28.59	29.72	06	OVC	020	8.00		25	22	24	88	13	02	29.16	30.37				
09	CLR	NC	10.00		60	46	53	60	8	16	28.61	29.74	09	OVC	013	10.00		28	22	26	78	14	04	29.20	30.40				
12	CLR	NC	9.00		68	47	56	47	14	03	28.60	29.73	12	OVC	021	10.00		30	22	27	72	14	03	29.21	30.41				
15	CLR	NC	8.00		69	48	57	47	18	04	28.54	29.68	15	BKN	055	10.00		34	23	30	64	13	02	29.18	30.38				
18	FEW	NC	6.00	HZ	55	42	49	62	18	05	28.58	29.72	18	FEW	NC	10.00		33	23	29	67	5	03	29.19	30.39				
21	CLR	NC	7.00		42	36	39	79	23	05	28.62	29.78	21	CLR	NC	9.00		24	20	23	84	0	00	29.21	30.41				
24	CLR	NC	9.00		39	34	37	82	21	05	28.62	29.77	24	CLR	NC	5.00	BR	17	15	17	92	0	00	29.19	30.40				
<b>SUNRISE: 0542 APR 03 SUNSET: 1829</b>																													
03	CLR	NC	6.00	BR	39	35	37	86	12	05	28.60	29.74	03	CLR	NC	2.50	BR	17	16	17	96	0	00	29.18	30.39				
06	OVC	007	3.00	BR	39	37	38	93	13	06	28.62	29.78	06	CLR	NC	4.00	BR	19	17	18	92	0	00	29.17	30.37				
09	OVC	007	2.50	BR	41	38	40	89	15	08	28.61	29.78	09	CLR	NC	10.00		34	24	30	67	5	01	29.17	30.37				
12	OVC	009	4.00	HZ	46	40	43	79	15	08	28.60	29.76	12	CLR	NC	10.00		41	13	31	32	5	01	29.15	30.36				
15	OVC	012	4.00	HZ	46	40	43	79	14	08	28.55	29.71	15	CLR	NC	10.00		45	14	34	29	0	00	29.09	30.29				
18	OVC	008	2.50	BR	41	38	40	89	12	05	28.54	29.71	18	CLR	NC	10.00		45	22	36	40	0	00	29.06	30.26				
21	VV	001	0.75	BR	38	37	38	97	12	05	28.56	29.72	21	CLR	NC	10.00		34	20	29	56	0	00	29.06	30.26				
24	VV	001	0.25	FG	35	35	35	100	14	04	28.55	29.71	24	CLR	NC	10.00		30	19	26	64	0	00	29.05	30.24				
<b>SUNRISE: 0541 APR 04 SUNSET: 1831</b>																													
03	VV	001	0.50	FG	33	33	33	100	18	04	28.53	29.70	03	CLR	NC	10.00		28	20	25	72	5	20	29.02	30.22				
06	OVC	003	2.00	BR	32	32	32	100	18	04	28.57	29.73	06	CLR	NC	10.00		29	17	25	61	0	00	29.05	30.24				
09	OVC	003	4.00	BR	33	32	33	96	22	04	28.53	29.70	09	CLR	NC	10.00		43	27	37	53	8	19	29.05	30.24				
12	OVC	005	4.00	BR	34	33	34	97	20	04	28.54	29.70	12	CLR	NC	10.00		53	24	41	32	9	19	29.01	30.19				
15	OVC	007	3.00	-RA BR	33	32	33	96	23	04	28.46	29.63	15	CLR	NC	10.00		60	28	46	30	8	21	28.93	30.11				
18	OVC	010	6.00	UP BR	31	30	31	96	17	04	28.52	29.69	18	CLR	NC	10.00		57	30	45	36	5	23	28.88	30.05				
21	OVC	039	2.00	-SN BR	26	23	25	88	15	36	28.63	29.82	21	CLR	NC	10.00		43	27	37	53	5	19	28.88	30.05				
24	OVC	016	10.00		23	18	21	81	14	34	28.71	29.89	24	CLR	NC	10.00		41	24	34	51	5	19	28.86	30.02				
<b>SUNRISE: 0539 APR 05 SUNSET: 1832</b>																													
03	OVC	019	10.00		21	15	19	78	13	35	28.75	29.95	03	CLR	NC	10.00		40	24	34	53	6	19	28.83	29.99				
06	CLR	NC	10.00		20	14	18	78	9	33	28.85	30.04	06	CLR	NC	10.00		39	24	33	55	5	21	28.84	30.00				
09	OVC	021	10.00		24	17	22	75	14	31	28.93	30.14	09	CLR	NC	10.00		57	33	46	41	5	25	28.82	29.98				
12	BKN	025	10.00		31	22	28	69	6	VR	28.99	30.19	12	CLR	NC	8.00		69	42	55	38	6	30	28.80	29.96				
15	BKN	033	10.00		33	20	29	59	10	34	29.01	30.22	15	CLR	NC	10.00		72	44	57	37	7	31	28.76	29.91				
18	CLR	NC	10.00		32	18	27	56	0	00	29.06	30.27	18	CLR	NC	8.00		66	44	54	45	8	33	28.77	29.93				
21	CLR	NC	10.00		28	20	25	72	7	06	29.10	30.31	21	CLR	NC	8.00		58	40	49	51	7	01	28.80	29.95				
24	CLR	NC	10.00		26	19	24	75	7	09	29.15	30.35	24	CLR	NC	8.00		47	38	43	71	5	06	28.84	29.99				
<b>SUNRISE: 0537 APR 06 SUNSET: 1833</b>																													
03	CLR	NC	10.00		24	18	22	77	7	10	29.17	30.37	03	CLR	NC	10.00		40	31	36	70	5	02	28.86	30.02				
06	CLR	NC	8.00		24	20	23	84	8	08	29.13	30.34	06	CLR	NC	10.00		39	28	35	65	10	03	28.93	30.09				
09	FEW	NC	10.00		31	22	28	69	15	11	29.12	30.32	09	CLR	NC	10.00		51	31	42	46	6	02	28.96	30.13				
12	FEW	NC	10.00		39	25	34	57	14	10	29.09	30.29	12	CLR	NC	10.00		59	31	46	35	6	34	28.96	30.13				
15	FEW	NC	10.00		40	24	34	53	21	09	29.01	30.20	15	CLR	NC	10.00		64	31	49	29	5	VR	28.93	30.10				
18	OVC	090	10.00		35	17	29	48	21	07	28.96	30.16	18	CLR	NC	10.00		61	31	47	32	7	06	28.93	30.11				
21	OVC	075	10.00		32	22	28	66	23	08	29.02	30.22	21	CLR	NC	10.00		49	36	43	61	13	08	28.99	30.16				
24	OVC	019	3.00	-SN	31	26	29	82	25	06	28.88	30.06	24	CLR	NC	10.00		41	32	37	70	7	09	29.01	30.18				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# DUBUQUE, IA

APRIL 2003 DBQ WBAN # 94908

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		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		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL			
	OBSERVATION TIME (LST)	EFF CLD AMT Okts		VISIBILITY (MILES)	OBSERVATION TIME (LST)	EFF CLD AMT Okts	VISIBILITY (MILES)																			
<b>SUNRISE: 0526 APR 13</b>				<b>SUNSET: 1841</b>				<b>SUNRISE: 0516 APR 19</b>				<b>SUNSET: 1848</b>														
03	CLR	NC		35	30	33	82	5	12	29.02	30.19	03	BKN	060		2.50	-RA	BR	45	44	45	97	5	04	28.73	29.89
06	CLR	NC		31	28	30	89	5	16	29.04	30.22	06	FEW	NC		1.25	BR		47	46	46	97	16	13	28.70	29.86
09	CLR	NC		47	31	40	54	8	14	29.06	30.24	09	CLR	NC		2.00	BR		57	53	55	87	12	15	28.71	29.86
12	CLR	NC		61	34	48	36	14	16	29.01	30.18	12	CLR	NC		4.00	HZ		67	57	61	71	9	11	28.65	29.80
15	CLR	NC		67	34	51	30	16	17	28.94	30.11	15	OVC	025		3.00	-RA	BR	60	58	59	93	16	19	28.64	29.80
18	CLR	NC		65	35	50	33	10	15	28.91	30.08	18	BKN	090		5.00	BR		63	59	61	87	17	15	28.60	29.74
21	CLR	NC		55	35	46	47	14	16	28.91	30.07	21	OVC	065		8.00			62	58	60	86	15	18	28.59	29.72
24	CLR	NC		52	36	45	55	13	17	28.90	30.05	24	OVC	013		5.00	-RA	BR	58	57	57	97	13	21	28.59	29.72
<b>SUNRISE: 0524 APR 14</b>				<b>SUNSET: 1842</b>				<b>SUNRISE: 0515 APR 20</b>				<b>SUNSET: 1849</b>														
03	CLR	NC		50	38	44	63	13	21	28.86	30.01	03	BKN	004		5.00	BR		53	52	52	96	5	21	28.52	29.66
06	CLR	NC		50	40	45	68	12	17	28.85	30.00	06	OVC	004		5.00	BR		49	48	48	97	8	26	28.58	29.72
09	CLR	NC		66	46	55	49	17	19	28.85	29.99	09	OVC	009		7.00	-RA		49	47	48	93	12	27	28.61	29.77
12	CLR	NC		81	49	62	33	30	20	28.78	29.92	12	OVC	020		10.00			51	44	48	77	20	25	28.65	29.81
15	CLR	NC		84	48	63	29	25	21	28.70	29.83	15	OVC	039		10.00			52	43	48	72	20	25	28.66	29.82
18	CLR	NC		78	48	61	35	21	19	28.68	29.82	18	OVC	037		10.00			48	45	47	89	17	27	28.67	29.83
21	CLR	NC		69	49	58	49	15	19	28.71	29.84	21	OVC	026		10.00			46	42	44	86	16	26	28.66	29.82
24	CLR	NC		64	49	56	58	13	20	28.70	29.83	24	OVC	013		10.00			44	42	43	93	14	25	28.62	29.78
<b>SUNRISE: 0522 APR 15</b>				<b>SUNSET: 1843</b>				<b>SUNRISE: 0513 APR 21</b>				<b>SUNSET: 1850</b>														
03	CLR	NC		62	49	55	62	16	20	28.66	29.79	03	OVC	006		3.00	BR		43	42	43	97	14	26	28.61	29.76
06	CLR	NC		61	48	54	63	17	20	28.65	29.78	06	BKN	010		10.00			44	42	43	93	14	28	28.61	29.77
09	CLR	NC		71	51	60	49	22	23	28.64	29.78	09	OVC	022		10.00			45	37	41	74	16	33	28.64	29.81
12	CLR	NC		78	54	64	43	17	20	28.61	29.72	12	OVC	029		10.00			46	36	41	68	17	34	28.70	29.87
15	CLR	NC		83	55	66	38	24	17	28.51	29.63	15	OVC	033		10.00			47	37	42	69	16	33	28.74	29.90
18	CLR	NC		78	53	63	42	21	20	28.48	29.61	18	OVC	050		10.00			51	37	45	59	16	34	28.77	29.93
21	CLR	NC		72	49	59	44	14	21	28.49	29.61	21	CLR	NC		10.00			47	35	42	63	14	01	28.84	30.01
24	CLR	NC		65	46	55	51	12	20	28.49	29.61	24	CLR	NC		10.00			39	31	36	73	9	33	28.88	30.05
<b>SUNRISE: 0521 APR 16</b>				<b>SUNSET: 1844</b>				<b>SUNRISE: 0511 APR 22</b>				<b>SUNSET: 1851</b>														
03	CLR	NC		63	45	53	52	10	15	28.49	29.61	03	CLR	NC		10.00			39	29	35	67	13	36	28.90	30.06
06	BKN	095		51	45	48	80	18	03	28.52	29.65	06	CLR	NC		10.00			37	27	33	67	7	35	28.93	30.11
09	OVC	060		53	43	48	69	18	05	28.57	29.70	09	CLR	NC		10.00			49	25	39	39	9	35	28.97	30.14
12	SCT	NC		55	45	50	69	23	04	28.55	29.68	12	CLR	NC		10.00			55	28	43	36	14	34	28.96	30.14
15	BKN	090		53	42	48	66	21	05	28.55	29.68	15	CLR	NC		10.00			59	28	45	31	13	32	28.92	30.09
18	BKN	050	-RA	46	39	43	77	24	05	28.61	29.77	18	CLR	NC		10.00			57	32	46	39	6	34	28.92	30.08
21	OVC	013		41	37	39	86	25	05	28.63	29.79	21	CLR	NC		10.00			46	30	39	54	0	00	28.93	30.11
24	OVC	085		37	33	35	86	23	05	28.65	29.81	24	CLR	NC		10.00			39	27	34	62	0	00	28.94	30.11
<b>SUNRISE: 0519 APR 17</b>				<b>SUNSET: 1845</b>				<b>SUNRISE: 0510 APR 23</b>				<b>SUNSET: 1852</b>														
03	SCT	NC		37	32	35	82	17	05	28.66	29.83	03	CLR	NC		10.00			39	25	34	57	6	12	28.94	30.11
06	CLR	NC		36	31	34	82	16	05	28.69	29.86	06	CLR	NC		7.00			37	32	35	82	5	12	28.99	30.16
09	OVC	018		38	32	35	79	12	03	28.75	29.93	09	CLR	NC		10.00			50	31	42	48	12	15	29.00	30.17
12	OVC	022		44	34	40	68	9	02	28.79	29.96	12	CLR	NC		10.00			58	31	46	36	10	12	28.96	30.14
15	OVC	027		49	37	43	64	12	04	28.77	29.94	15	CLR	NC		10.00			62	28	47	28	10	11	28.91	30.07
18	OVC	031		50	38	44	63	9	34	28.79	29.96	18	CLR	NC		10.00			59	30	46	33	9	12	28.87	30.04
21	OVC	031		45	34	40	66	7	06	28.84	30.01	21	CLR	NC		10.00			53	28	42	38	10	12	28.87	30.02
24	OVC	043		43	35	40	74	7	05	28.84	30.01	24	CLR	NC		10.00			48	27	39	44	9	11	28.86	30.02
<b>SUNRISE: 0518 APR 18</b>				<b>SUNSET: 1846</b>				<b>SUNRISE: 0508 APR 24</b>				<b>SUNSET: 1853</b>														
03	OVC	024		42	34	39	73	10	05	28.84	30.00	03	CLR	NC		10.00			46	21	36	37	13	10	28.81	29.97
06	OVC	022		41	34	38	76	9	07	28.87	30.04	06	CLR	NC		10.00			45	22	36	40	15	10	28.82	29.98
09	OVC	021		44	35	40	71	8	08	28.88	30.05	09	CLR	NC		10.00			51	25	40	36	13	10	28.80	29.95
12	OVC	019		45	37	41	74	6	15	28.92	30.10	12	CLR	NC		10.00			58	32	46	38	15	11	28.76	29.91
15	CLR	NC		48	39	44	71	17	09	28.83	30.00	15	CLR	NC		10.00			59	30	46	33	14	11	28.70	29.85
18	SCT	NC		49	42	46	77	15	10	28.74	29.91	18	OVC	075		10.00			58	31	46	36	13	07	28.67	29.82
21	SCT	NC		46	40	43	79	12	11	28.80	29.97	21	OVC	095		10.00			53	30	43	41	13	06	28.67	29.83
24	CLR	NC		44	40	42	85	15	12	28.77	29.93	24	OVC	080		10.00			51	28	41	41	12	09	28.65	29.80

# OBSERVATIONS AT 3-HOURLY INTERVALS

# DUBUQUE, IA

APRIL 2003

DBQ

WBAN # 94908

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	TIME (LST)	OKtas		DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	OBSERVATION TIME (LST)	OKtas		DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
	<b>SUNRISE: 0507 APR 25</b>						<b>SUNSET: 1854</b>						<b>SUNRISE: APR 31</b>						<b>SUNSET:</b>										
03	CLR	NC			10.00	45	29	38	54	15	03	28.61	29.77																
06	CLR	NC			10.00	42	26	36	53	13	03	28.66	29.82																
09	CLR	NC			10.00	54	31	44	42	14	03	28.67	29.83																
12	CLR	NC			10.00	63	33	49	33	15	05	28.65	29.80																
15	CLR	NC			10.00	66	31	49	27	14	06	28.63	29.78																
18	CLR	NC			10.00	63	30	48	29	13	08	28.66	29.81																
21	CLR	NC			10.00	54	35	45	49	9	07	28.70	29.85																
24	CLR	NC			10.00	47	33	41	59	8	06	28.73	29.88																

	<b>SUNRISE: 0506 APR 26</b>						<b>SUNSET: 1855</b>						<b>SUNRISE: 0504 APR 27</b>						<b>SUNSET: 1857</b>								
03	CLR	NC			10.00	38	29	34	70	5	05	28.76	29.92														
06	CLR	NC			10.00	35	29	33	78	0	00	28.80	29.96														
09	CLR	NC			10.00	49	29	40	46	7	16	28.80	29.96														
12	CLR	NC			10.00	60	34	48	38	0	00	28.78	29.93														
15	CLR	NC			10.00	66	36	51	33	8	16	28.74	29.90														
18	CLR	NC			10.00	66	37	51	34	8	15	28.73	29.88														
21	CLR	NC			9.00	55	38	47	53	10	16	28.75	29.91														
24	CLR	NC			10.00	49	38	44	66	8	20	28.78	29.93														
	<b>SUNRISE: 0503 APR 28</b>						<b>SUNSET: 1858</b>						<b>SUNRISE: 0501 APR 29</b>						<b>SUNSET: 1859</b>								
03	CLR	NC			10.00	56	47	51	72	10	32	28.75	29.89														
06	BKN	070			10.00	57	39	48	51	8	36	28.80	29.94														
09	CLR	NC			10.00	62	38	50	41	9	35	28.82	29.97														
12	CLR	NC			10.00	65	38	51	37	16	31	28.83	29.97														
15	CLR	NC			10.00	68	39	53	35	12	32	28.79	29.93														
18	CLR	NC			10.00	66	35	51	32	8	35	28.79	29.93														
21	CLR	NC			10.00	53	35	45	51	9	33	28.84	29.99														
24	CLR	NC			10.00	51	35	44	54	13	33	28.89	30.04														
	<b>SUNRISE: 0460 APR 30</b>						<b>SUNSET: 1860</b>						<b>SUNRISE: 0503 APR 29</b>						<b>SUNSET: 1859</b>								
03	OVC	034	4.00	RA BR	48	46	47	93	12	12	28.78	29.93															
06	OVC	005	4.00	-RA BR	48	46	47	93	7	10	28.77	29.92															
09	OVC	005	5.00	BR	49	47	48	93	15	09	28.70	29.85															
12	FEW	NC	8.00		48	47	47	96	13	10	28.65	29.81															
15	OVC	007	5.00	BR	50	49	49	96	10	04	28.63	29.79															
18	OVC	006	3.00	BR	51	49	50	92	14	06	28.54	29.69															
21	OVC	008	5.00	-RA BR	49	48	48	97	23	01	28.60	29.75															
24	OVC	004	5.00	BR	50	50	50	100	10	01	28.54	29.69															

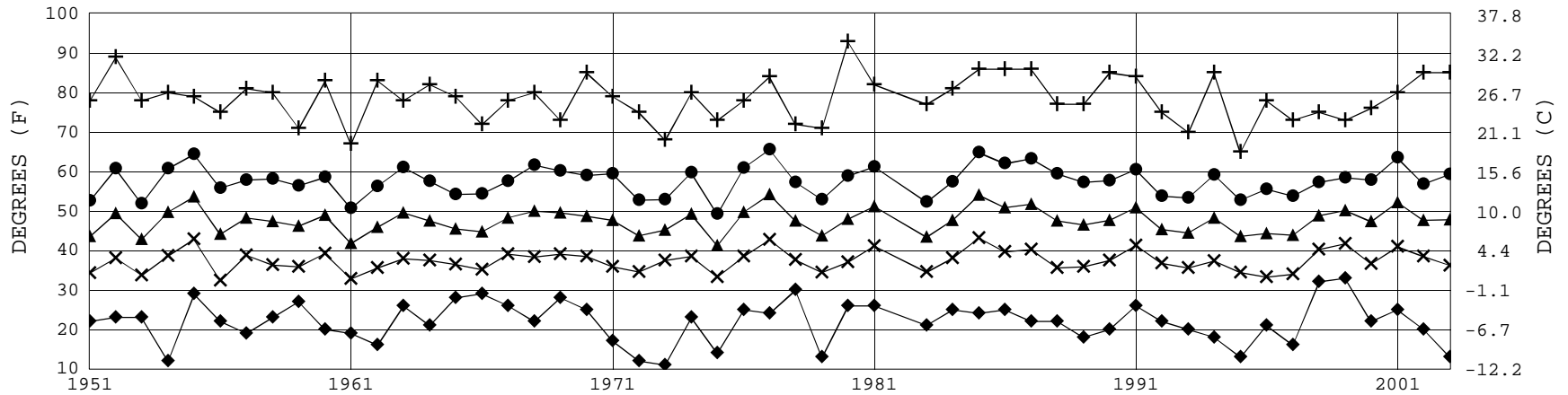
**3-HOURLY OBSERVATION NOTES**

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			42	33	38	73	28.79	29.95	8.56	10	2	8	
02			42	33	38	74	28.79	29.95	8.37	10	3	8	
03			41	33	37	75	28.79	29.95	8.03	10	3	7	
04			40	33	37	76	28.79	29.95	7.81	11	3	7	
05			40	32	36	77	28.80	29.96	7.91	10	3	6	
06			40	32	37	77	28.81	29.97	7.73	10	4	6	
07			42	33	38	73	28.82	29.99	7.72	11	4	6	
08			45	34	40	68	28.82	29.99	8.38	12	4	8	
09			48	35	42	63	28.82	29.99	8.51	12	3	8	
10			51	35	44	58	28.82	29.99	8.37	12	3	7	
11			53	35	45	55	28.82	29.98	8.53	13	3	9	
12			55	36	46	54	28.81	29.97	8.68	13	2	7	
13			56	36	46	52	28.80	29.96	8.74	13	2	7	
14			57	36	47	51	28.79	29.95	8.59	14	2	9	
15			57	37	47	52	28.77	29.93	8.54	14	3	8	
16			57	36	47	51	28.77	29.93	8.73	14	4	6	
17			57	36	47	52	28.76	29.92	8.48	13	3	7	
18			54	37	46	55	28.76	29.93	8.42	12	4	7	
19			51	36	44	60	28.77	29.93	8.60	11	3	7	
20			48	36	42	65	28.79	29.95	8.61	11	4	7	
21			47	35	42	66	28.80	29.96	8.47	12	4	7	
22			46	35	41	67	28.79	29.96	8.88	11	4	8	
23			44	34	40	70	28.79	29.96	8.66	10	3	8	
24			43	34	39	72	28.80	29.96	8.38	11	3	7	

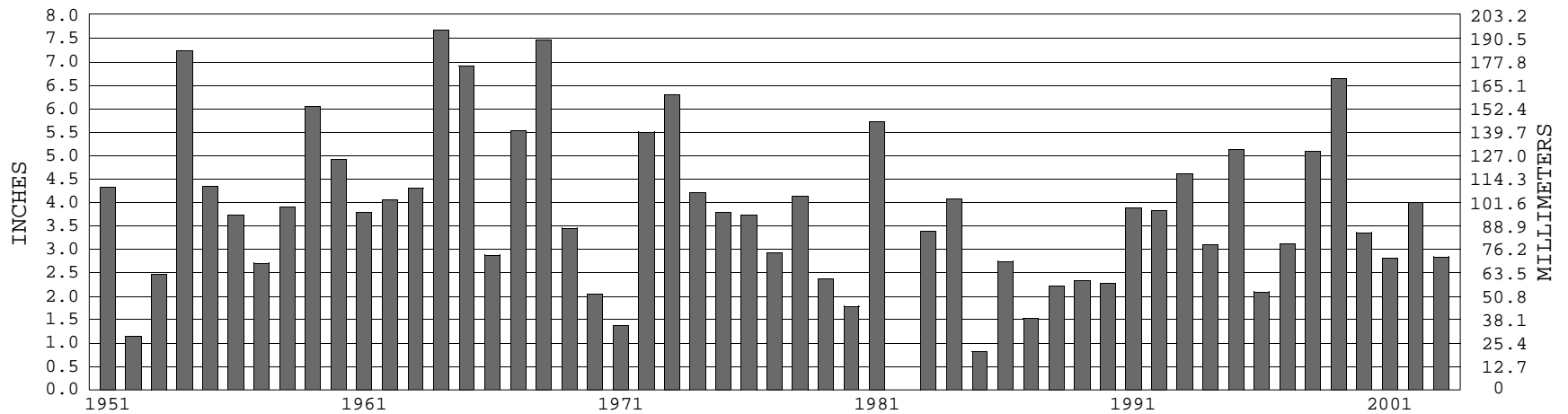
### DUBUQUE, IA APRIL TEMPERATURES



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

Long-Term (1951-2003) Mean: 46.6      1961-1990 Normal: 47.5

### DUBUQUE, IA APRIL PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.78

1961-1990 Normal: 3.49



APRIL 2003

DUBUQUE, IA

# 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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