



MAY 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	SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM				
																			5-SEC	2-MIN	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	60	47	54	0	49	51	11	0	RA BR			0.0	0.25	28.70	29.85	9.3	04	10.1	24	01	21	01	01
02	61	43	52	-3	35	44	13	0				0.0	0.00	28.92	30.08	8.9	05	9.7	23	05	18	04	02
03	63	35*	49	-6	31	42	16	0				0.0	0.00	28.97	30.14	5.1	10	7.1	17	10	12	13	03
04	52	43	48	-7	40	45	17	0	TSRA RA BR			0.0	0.61	28.64	29.79	19.4	12	19.7	49*	12	41*	12	04
05	58	50	54	-1	50	51	11	0	RA FG+ BR			0.0	0.01	28.36	29.50	7.8	24	11.8	38	11	32	11	05
06	69	41	55	-1	48	52	10	0	RA FG+ BR			0.0	0.01	28.68	29.83	1.5	35	5.4	17	07	14	06	06
07	57	45	51	-5	48	49	14	0	RA BR			0.0	0.34	28.75	29.91	10.1	04	10.5	24	09	21	09	07
08	57	36	47*	-9	46	48	18	0	RA FG+ BR HZ			0.0	0.50	28.76	29.92	9.4	10	10.4	33	09	28	10	08
09	72	52	62	5	55	58	3	0	RA FG+ BR HZ			0.0	0.23	28.54	29.68	5.6	20	14.2	32	12	25	11	09
10	74	48	61	4	55	58	4	0	TS RA			0.0	0.02	28.43	29.56	6.1	17	12.5	45	24	36	24	10
11	52	43	48	-9	43	45	17	0	RA BR			0.0	0.02	28.39	29.53	26.2	27	26.9	47	28	38	27	11
12	65	44	55	-3	39	47	10	0				0.0	0.00	28.81	29.97	14.5	30	14.8	37	32	31	32	12
13	70	38	54	-4	39	49	11	0				0.0	0.00	28.86	30.02	0.7	29	5.3	14	34	12	33	13
14	59	50	55	-3	52	53	10	0	TSRA RA BR			0.0	1.70	28.71	29.86	8.6	10	9.2	20	10	17	09	14
15	62	45	54	-5	48	51	11	0	BR			0.0	0.00	28.81	29.96	6.6	05	7.3	24	07	18	08	15
16	68	42	55	-4	48	52	10	0	FG+ BR			0.0	0.00	28.89	30.04	4.2	08	5.1	17	09	15	08	16
17	71	47	59	-1	51	55	6	0	BR HZ			0.0	0.00	28.93	30.08	9.5	06	10.1	23	05	16	09	17
18	73	49	61	1	56	59	4	0	BR HZ			0.0	0.00	28.89	30.04	8.2	09	9.8	21	12	17	09	18
19	74	54	64	4	62	63	1	0	RA BR HZ			0.0	T	28.86	30.00	3.1	19	11.0	29	32	23	33	19
20	60	43	52	-8	39	46	13	0	RA HZ			0.0	T	29.13	30.30	12.2	34	12.6	32	33	26	33	20
21	61	40	51	-9	35	44	14	0				0.0	0.00	29.17	30.35	5.6	09	7.0	22	10	17	10	21
22	65	37	51	-10	39	46	14	0	RA			0.0	0.01	29.06	30.23	4.2	04	5.4	16	05	14	03	22
23	64	46	55	-7	46	50	10	0	RA BR			0.0	0.10	29.00	30.16	5.0	04	5.6	16	04	14	07	23
24	69	42	56	-6	38	48	9	0				0.0	0.00	28.89	30.04	3.6	36	5.0	16	04	14	03	24
25	74	44	59	-3	40	50	6	0				0.0	0.00	28.88	30.03	4.4	03	6.2	21	36	16	02	25
26	73	46	60	-3	42	51	5	0				0.0	0.00	28.98	30.13	3.9	01	5.3	20	02	16	02	26
27	78	48	63	0	44	54	2	0				0.0	0.00	28.97	30.12	1.2	30	3.9	22	30	15	33	27
28	75	51	63	0	50	57	2	0	RA BR			0.0	0.07	28.74	29.87	10.3	33	12.7	35	33	28	33	28
29	75	51	63	0	45	53	2	0				0.0	0.00	28.73	29.87	7.6	35	9.6	28	02	21	01	29
30	81*	51	66*	3	52	57	0	1	TSRA RA BR			0.0	0.14	28.45	29.57	9.5	24	16.9	35	30	30	31	30
31	65	47	56	-8	46	51	9	0				0.0	0.00	28.77	29.92	11.2	01	12.1	36	02	29	34	31

66.4	45.1	55.8	■ ■	45.5	50.9	9.1	0.0	< MONTHLY AVERAGES	TOTALS-->	0.0	4.01	28.80	29.95	2.2	03	10.1	<- MONTHLY AVERAGES
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-2.9	-3.7	-3.3	■ ■	-----DEPARTURE FROM NORMAL----->						-1.1	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
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DEGREE DAYS				GREATEST 24-HR PRECIPITATION: 1.70 DATE: 14				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.44 21 0555			
HEATING: 283 57 7282 52				GREATEST SNOW DEPTH:				MINIMUM : 29.26 10 2255				PRECIPITATION ≥ 0.01 INCH : 14			
COOLING: 1 -36 10 -33				NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				PRECIPITATION ≥ 0.10 INCH : 8			
								MINIMUM TEMP ≤ 32 : 0				SNOWFALL ≥ 1.0 INCH : 0			
								THUNDERSTORMS : 4				HEAVY FOG : 5			

MAY 2003
DUBUQUE, IA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

DUBUQUE, IA

MAY 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	0.13	0.10	0.03		T	T							01												01	0.26	0.25		
02													02												02		0.00		
03													03												03		0.00		
04												0.04	04	0.01	0.01	0.01	T	0.03	0.03	0.04	0.18	0.12	0.05	T	0.09	04	0.61		
05	0.01												05												05		0.01		
06													06												06		0.01		
07	0.18	0.03		0.05	0.04	T	0.01	T			T	0.01	07	0.01											07	0.33	0.34		
08													08			T	T				0.03	0.04	0.10	0.31	08	0.48	0.50		
09	0.17	0.07	0.01										09												09	0.25	0.23		
10													10					T				0.01		0.01	10		0.02		
11	T			T	T	0.01				T	T	T	11	T	T	T			0.01						11		0.02		
12													12												12		0.00		
13													13												13		0.00		
14				0.14	0.13	0.11	0.10	0.11	0.12	0.16	0.11	0.11	14	0.09	0.04						0.02	0.01	0.01	14	1.26	1.70			
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19					T							19		T		
20	T												20							T					20		T		
21													21												21		0.00		
22													22								T				22		0.01		
23	0.02	0.06	0.01									0.01	23									T	T	0.01	23		0.10		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28					T	0.05	0.02						28												28		0.07		
29													29												29		0.00		
30							0.07	0.06	T				30												30	0.13	0.14		
31													31												31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

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

Date and time are not entered for TRACE amounts.

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

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 MAY 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							.75	10.00	
02							8.00	10.00	
03							10.00	10.00	
04							3.00	10.00	
05							.25	10.00	
06							.50	10.00	
07							1.25	10.00	
08							.25	10.00	
09							.25	10.00	
10							8.00	10.00	
11							5.00	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							1.00	10.00	
15							3.00	10.00	
16							<.25	10.00	
17							1.00	8.00	
18							.75	9.00	
19							2.50	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							8.00	10.00	
23							1.25	10.00	
24							9.00	10.00	
25							9.00	10.00	
26							9.00	10.00	
27							9.00	10.00	
28							2.00	10.00	
29							10.00	10.00	
30							4.00	10.00	
31							9.00	10.00	
MONTHLY AVGS							4.91	9.90	
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 3 15 13									

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

MAY 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
SUNRISE: 0459					MAY 01					SUNSET: 1901					SUNRISE: 0451					MAY 07					SUNSET: 1908				
03	OVC	003		3.00	BR	48	47	47	96	15	01	28.59	29.74	03	OVC	046		6.00	BR	51	48	49	89	10	05	28.68	29.83		
06	OVC	001		0.75	BR	47	47	47	100	16	02	28.62	29.78	06	OVC	012		3.00	BR	50	48	49	93	10	02	28.73	29.88		
09	OVC	007		7.00		50	47	48	89	10	06	28.68	29.84	09	OVC	007		4.00	BR	49	47	48	93	13	03	28.73	29.88		
12	OVC	015		7.00		55	50	52	83	12	04	28.71	29.86	12	OVC	004		1.50	BR	49	48	48	97	13	03	28.75	29.90		
15	OVC	033		10.00		59	49	54	69	9	05	28.73	29.89	15	OVC	017		9.00		54	49	51	83	12	03	28.75	29.91		
18	OVC	070		10.00		60	48	54	65	8	06	28.72	29.87	18	OVC	013		10.00		53	48	50	83	9	03	28.79	29.94		
21	OVC	070		8.00		55	51	53	87	0	00	28.78	29.93	21	OVC	026		10.00		50	46	48	86	6	05	28.84	30.00		
24	OVC	085		10.00		52	47	49	83	7	07	28.81	29.96	24	CLR	NC		9.00		45	44	45	97	3	02	28.82	29.98		
SUNRISE: 0457					MAY 02					SUNSET: 1902					SUNRISE: 0450					MAY 08					SUNSET: 1909				
03	OVC	095		10.00		50	36	44	59	16	03	28.86	30.01	03	FEW	NC		4.00	BR	39	38	39	96	0	00	28.85	30.01		
06	OVC	100		10.00		45	26	37	48	10	05	28.89	30.04	06	VV	001		0.25	FG	38	38	38	100	0	00	28.87	30.04		
09	BKN	095		10.00		47	31	40	54	15	04	28.92	30.09	09	BKN	027		9.00		53	46	49	77	7	08	28.86	30.02		
12	BKN	080		10.00		54	34	45	47	12	04	28.94	30.11	12	OVC	021		10.00		54	46	50	75	12	06	28.81	29.97		
15	CLR	NC		10.00		60	38	49	44	8	02	28.92	30.08	15	BKN	023		8.00		55	47	51	74	12	13	28.83	29.99		
18	CLR	NC		10.00		58	39	49	50	8	03	28.92	30.07	18	BKN	100		8.00		56	49	52	77	15	10	28.69	29.85		
21	CLR	NC		10.00		48	36	43	63	7	08	28.94	30.11	21	OVC	038		4.00	-RA BR	54	51	52	90	18	09	28.61	29.76		
24	CLR	NC		10.00		45	32	39	61	8	07	28.99	30.16	24	OVC	043		3.00	+RA BR	52	50	51	93	18	10	28.53	29.67		
SUNRISE: 0456					MAY 03					SUNSET: 1903					SUNRISE: 0448					MAY 09					SUNSET: 1910				
03	CLR	NC		10.00		41	21	34	45	3	07	28.99	30.16	03	OVC	005		4.00	BR	55	54	54	96	21	13	28.46	29.61		
06	CLR	NC		10.00		37	26	33	65	8	04	29.01	30.19	06	OVC	001		0.50	FG	57	57	57	100	16	13	28.46	29.60		
09	CLR	NC		10.00		50	31	42	48	7	02	29.03	30.20	09	OVC	015		5.00	HZ	65	60	62	84	15	22	28.50	29.63		
12	CLR	NC		10.00		58	28	45	32	5	15	29.01	30.17	12	SCT	NC		10.00		67	56	60	68	18	26	28.56	29.69		
15	CLR	NC		10.00		62	34	49	35	8	13	28.95	30.12	15	CLR	NC		10.00		71	57	63	61	17	24	28.57	29.70		
18	CLR	NC		10.00		61	38	50	43	12	14	28.91	30.07	18	CLR	NC		9.00		68	55	60	63	9	27	28.58	29.71		
21	CLR	NC		10.00		51	37	45	59	7	12	28.92	30.09	21	CLR	NC		10.00		59	53	56	81	9	34	28.61	29.74		
24	CLR	NC		10.00		48	37	43	66	9	13	28.92	30.09	24	CLR	NC		10.00		55	51	53	87	9	02	28.61	29.76		
SUNRISE: 0455					MAY 04					SUNSET: 1904					SUNRISE: 0447					MAY 10					SUNSET: 1911				
03	CLR	NC		10.00		45	28	38	52	13	12	28.88	30.03	03	CLR	NC		10.00		51	48	49	89	7	01	28.60	29.73		
06	CLR	NC		10.00		45	35	41	68	13	13	28.83	29.98	06	CLR	NC		8.00		51	49	50	92	5	14	28.61	29.74		
09	CLR	NC		9.00		51	38	45	61	23	13	28.71	29.86	09	CLR	NC		10.00		60	49	54	67	7	12	28.59	29.72		
12	OVC	030		5.00	-RA	50	43	47	77	17	12	28.72	29.88	12	CLR	NC		10.00		68	54	60	61	5	VR	28.50	29.63		
15	OVC	039		7.00		50	43	47	77	16	11	28.61	29.77	15	SCT	NC		10.00		72	58	63	61	16	15	28.41	29.54		
18	BKN	025		10.00		47	42	45	83	26	11	28.41	29.56	18	OVC	035		9.00	TS	70	60	64	71	18	15	28.25	29.37		
21	OVC	012		9.00	-RA	48	46	47	93	23	12	28.44	29.59	21	FEW	NC		9.00		69	64	66	84	17	20	28.18	29.30		
24	OVC	012		7.00	-RA	50	48	49	93	22	12	28.32	29.47	24	OVC	008		10.00		52	48	50	86	35	24	28.17	29.30		
SUNRISE: 0453					MAY 05					SUNSET: 1906					SUNRISE: 0446					MAY 11					SUNSET: 1912				
03	OVC	004		5.00	BR	50	49	49	96	10	12	28.24	29.38	03	OVC	018		10.00		46	41	44	83	28	26	28.21	29.34		
06	VV	001		0.25	FG	50	50	50	100	7	17	28.24	29.38	06	OVC	014		10.00		44	40	42	85	26	25	28.24	29.37		
09	OVC	003		1.00	BR	52	51	51	97	13	23	28.25	29.39	09	OVC	016		10.00	-RA	46	41	44	83	31	27	28.28	29.40		
12	OVC	008		10.00		56	51	53	84	15	25	28.32	29.46	12	OVC	016		10.00	-RA	47	43	45	86	29	27	28.34	29.49		
15	OVC	031		10.00		56	48	52	75	23	26	28.39	29.53	15	OVC	016		10.00		48	43	46	83	30	28	28.44	29.59		
18	OVC	035		10.00		55	48	51	77	14	27	28.45	29.59	18	OVC	018		10.00		47	42	45	83	28	29	28.52	29.67		
21	OVC	030		10.00		53	48	50	83	10	30	28.50	29.65	21	OVC	043		10.00		50	45	47	83	20	29	28.61	29.76		
24	OVC	032		9.00		50	48	49	93	7	24	28.57	29.71	24	BKN	110		10.00		50	43	47	77	20	29	28.64	29.80		
SUNRISE: 0452					MAY 06					SUNSET: 1907					SUNRISE: 0445					MAY 12					SUNSET: 1913				
03	CLR	NC		5.00	BR	45	44	45	97	6	23	28.61	29.76	03	CLR	NC		10.00		46	41	44	83	10	30	28.69	29.85		
06	CLR	NC		5.00	BR	49	47	48	93	6	29	28.63	29.79	06	CLR	NC		10.00		47	42	45	83	12	29	28.76	29.92		
09	CLR	NC		10.00		59	46	52	62	8	36	28.69	29.84	09	CLR	NC		10.00		57	39	48	51	22	31	28.82	29.97		
12	SCT	NC		10.00		64	50	56	61	7	29	28.72	29.87	12	CLR	NC		10.00		61	39	50	44	25	30	28.84	30.00		
15	FEW	NC		10.00		67	48	56	51	3	33	28.71	29.86	15	CLR	NC		10.00		64	37	51	37	18	30	28.84	29.99		
18	SCT	NC		10.00		68	48	57	49	0	00	28.72	29.87	18	CLR	NC		10.00		61	36	49	39	12	31	28.85	30.01		
21	OVC	095		10.00		61	49	54	65	7	08	28.73	29.88	21	CLR	NC		10.00		49	38	44	66	6	32	28.89	30.05		
24	OVC	075		10.00		57	51	54	81	12	08	28.70	29.84	24	CLR	NC		10.00		49	37	43	64	8	29	28.90	30.05		

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

MAY 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		OBSERVATION TIME (LST)	EFF CLD AMT %	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT %	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION
SUNRISE: 0444				MAY 13				SUNSET: 1914				SUNRISE: 0438				MAY 19				SUNSET: 1920						
03	CLR	NC		10.00	44	36	40	73	3	30	28.90	30.06	03	OVC	043		4.00	BR	64	60	62	87	9	12	28.86	30.00
06	CLR	NC		10.00	46	39	43	77	0	00	28.92	30.09	06	BKN	023		2.50	BR	64	61	62	90	12	13	28.85	29.99
09	CLR	NC		10.00	64	38	51	38	9	33	28.92	30.08	09	OVC	007		2.50	BR	66	63	64	90	10	16	28.88	30.02
12	CLR	NC		10.00	67	35	51	31	3	VR	28.90	30.04	12	OVC	013		4.00	HZ	71	65	67	81	9	17	28.88	30.02
15	OVC	080		10.00	68	39	53	35	6	04	28.83	29.98	15	BKN	027		5.00	HZ	74	65	68	74	10	17	28.82	29.96
18	OVC	090		7.00	65	42	53	44	5	17	28.81	29.96	18	FEW	NC		5.00	HZ	73	66	68	79	7	26	28.82	29.95
21	BKN	080		10.00	55	45	50	69	0	00	28.81	29.96	21	OVC	008		10.00		61	58	59	90	18	31	28.88	30.02
24	OVC	055		10.00	59	44	51	58	9	17	28.77	29.92	24	OVC	011		8.00		55	51	53	87	17	34	28.93	30.09
SUNRISE: 0443				MAY 14				SUNSET: 1915				SUNRISE: 0437				MAY 20				SUNSET: 1921						
03	OVC	012		1.50	53	52	52	96	9	06	28.74	29.88	03	OVC	022		10.00		50	42	46	74	24	34	29.00	30.15
06	BKN	080		5.00	53	52	52	96	13	12	28.71	29.86	06	CLR	NC		10.00		48	39	44	71	14	35	29.08	30.24
09	OVC	006		5.00	54	52	53	93	10	11	28.71	29.86	09	CLR	NC		10.00		53	37	46	55	17	34	29.13	30.29
12	OVC	009		2.50	55	53	54	93	8	12	28.71	29.86	12	CLR	NC		10.00		57	37	47	47	15	31	29.16	30.33
15	BKN	013		10.00	58	53	55	84	14	09	28.67	29.82	15	CLR	NC		10.00		59	39	49	48	15	34	29.17	30.34
18	OVC	017		10.00	56	51	53	84	7	09	28.69	29.85	18	CLR	NC		10.00		57	37	47	47	13	36	29.16	30.33
21	OVC	015		8.00	53	50	51	89	7	11	28.71	29.87	21	CLR	NC		10.00		47	37	42	69	0	00	29.20	30.37
24	OVC	075		7.00	50	48	49	93	6	06	28.70	29.86	24	CLR	NC		10.00		43	37	40	80	8	03	29.22	30.40
SUNRISE: 0442				MAY 15				SUNSET: 1916				SUNRISE: 0436				MAY 21				SUNSET: 1922						
03	OVC	009		5.00	50	47	48	89	9	07	28.73	29.88	03	CLR	NC		10.00		45	36	41	71	10	07	29.22	30.40
06	OVC	007		3.00	49	47	48	93	9	03	28.78	29.93	06	CLR	NC		10.00		46	37	42	71	6	10	29.26	30.44
09	OVC	018		7.00	54	50	52	87	9	01	28.81	29.97	09	CLR	NC		10.00		52	36	45	55	14	11	29.24	30.42
12	BKN	028		10.00	60	47	53	62	14	05	28.80	29.96	12	CLR	NC		10.00		57	34	46	42	6	VR	29.20	30.38
15	BKN	038		10.00	60	50	55	70	14	06	28.82	29.98	15	CLR	NC		10.00		60	33	47	36	0	00	29.14	30.30
18	OVC	060		10.00	58	49	53	72	0	00	28.85	30.01	18	CLR	NC		10.00		59	33	47	38	7	11	29.09	30.26
21	FEW	NC		10.00	52	47	49	83	0	00	28.87	30.02	21	CLR	NC		10.00		50	36	44	59	5	06	29.11	30.28
24	CLR	NC		10.00	49	45	47	86	3	08	28.87	30.03	24	CLR	NC		10.00		46	37	42	71	9	11	29.10	30.27
SUNRISE: 0441				MAY 16				SUNSET: 1917				SUNRISE: 0435				MAY 22				SUNSET: 1923						
03	CLR	NC		6.00	44	42	43	93	0	00	28.89	30.04	03	CLR	NC		10.00		41	36	39	82	0	00	29.10	30.27
06	CLR	NC		1.75	48	47	47	96	0	00	28.90	30.06	06	CLR	NC		10.00		44	40	42	85	0	00	29.12	30.29
09	CLR	NC		9.00	58	48	53	70	3	20	28.93	30.10	09	CLR	NC		10.00		55	41	48	59	0	00	29.11	30.27
12	CLR	NC		10.00	64	49	56	58	6	VR	28.89	30.05	12	CLR	NC		10.00		60	36	48	41	3	VR	29.07	30.24
15	SCT	NC		10.00	67	47	56	49	8	10	28.86	30.02	15	CLR	NC		10.00		64	34	50	33	6	01	29.02	30.19
18	CLR	NC		10.00	66	49	57	54	8	09	28.86	30.01	18	FEW	NC		10.00		62	40	51	44	3	05	29.02	30.19
21	CLR	NC		10.00	57	48	52	72	6	05	28.90	30.05	21	OVC	070		10.00		57	40	49	53	10	05	29.01	30.18
24	CLR	NC		7.00	53	49	51	86	7	06	28.89	30.04	24	OVC	070		10.00		52	47	49	83	10	06	29.02	30.19
SUNRISE: 0440				MAY 17				SUNSET: 1918				SUNRISE: 0435				MAY 23				SUNSET: 1924						
03	CLR	NC		4.00	49	47	48	93	8	04	28.92	30.08	03	OVC	075		7.00		48	46	47	93	6	03	29.03	30.19
06	CLR	NC		1.25	48	47	47	96	10	02	28.94	30.11	06	OVC	055		4.00	BR	49	47	48	93	7	05	29.03	30.19
09	SCT	NC		3.00	59	53	56	81	9	04	28.93	30.09	09	SCT	NC		10.00		56	48	52	75	7	03	29.03	30.19
12	BKN	033		6.00	66	53	59	63	14	08	28.94	30.10	12	OVC	060		10.00		59	45	52	60	9	02	29.02	30.18
15	FEW	NC		8.00	70	55	61	59	9	05	28.92	30.07	15	SCT	NC		10.00		62	43	52	50	7	02	28.98	30.15
18	CLR	NC		7.00	68	54	60	61	13	07	28.92	30.07	18	CLR	NC		10.00		61	44	52	54	7	03	28.95	30.12
21	CLR	NC		6.00	60	52	56	75	12	07	28.92	30.08	21	CLR	NC		9.00		49	45	47	86	0	00	28.96	30.12
24	CLR	NC		6.00	54	49	51	83	5	05	28.93	30.09	24	CLR	NC		8.00		46	42	44	86	0	00	28.95	30.11
SUNRISE: 0439				MAY 18				SUNSET: 1919				SUNRISE: 0434				MAY 24				SUNSET: 1925						
03	CLR	NC		2.00	51	50	51	96	9	03	28.93	30.09	03	CLR	NC		10.00		45	40	43	83	7	36	28.92	30.08
06	CLR	NC		0.75	51	50	51	96	8	03	28.93	30.09	06	CLR	NC		10.00		49	43	46	80	0	00	28.92	30.08
09	CLR	NC		7.00	64	56	59	75	13	11	28.92	30.08	09	CLR	NC		10.00		60	37	49	42	7	02	28.92	30.08
12	BKN	026		9.00	69	59	63	70	14	10	28.89	30.03	12	CLR	NC		10.00		66	34	50	31	6	VR	28.90	30.05
15	BKN	034		9.00	71	60	64	68	13	11	28.86	30.00	15	CLR	NC		10.00		69	34	52	27	3	VR	28.86	30.01
18	OVC	042		8.00	69	61	64	76	8	10	28.85	29.99	18	CLR	NC		10.00		63	42	52	47	7	33	28.84	29.99
21	OVC	044		6.00	66	61	63	84	9	12	28.88	30.02	21	CLR	NC		10.00		55	38	47	53	8	31	28.86	30.01
24	SCT	NC		5.00	64	60	62	87	9	12	28.86	30.00	24	CLR	NC		10.00		52	37	45	57	7	02	28.86	30.01

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

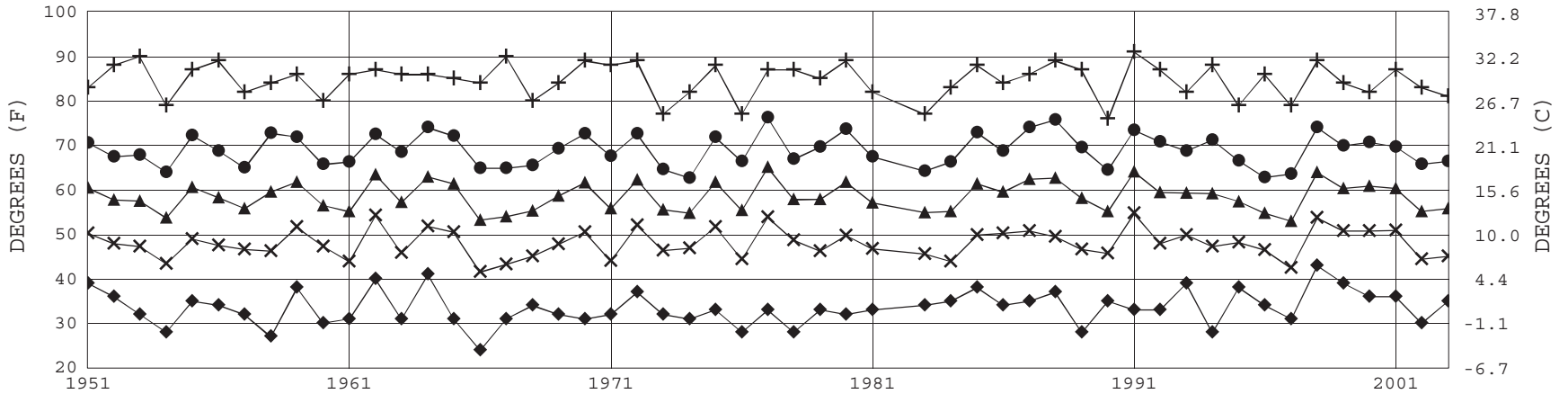
MAY 2003

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
SUNRISE: 0433					MAY 25					SUNSET: 1926					SUNRISE: 0429					MAY 31					SUNSET: 1931				
03	CLR	NC	10.00		48	39	44	71	0	00	28.86	30.01	03	OVC	014	10.00		55	50	52	83	16	36	28.56	29.68				
06	CLR	NC	10.00		50	45	47	83	3	03	28.89	30.04	06	OVC	020	10.00		53	47	50	80	25	01	28.66	29.80				
09	CLR	NC	10.00		63	45	53	52	7	02	28.91	30.06	09	OVC	023	10.00		56	47	51	72	18	02	28.78	29.93				
12	CLR	NC	10.00		70	39	54	32	12	34	28.90	30.04	12	OVC	025	10.00		59	48	53	67	9	03	28.83	29.98				
15	SCT	NC	10.00		73	37	54	27	8	04	28.87	30.01	15	FEW	NC	10.00		64	47	55	54	10	01	28.83	29.98				
18	CLR	NC	10.00		71	38	54	30	8	36	28.86	30.01	18	CLR	NC	10.00		61	44	52	54	8	02	28.84	29.99				
21	CLR	NC	10.00		60	38	49	44	10	12	28.89	30.03	21	CLR	NC	10.00		49	40	45	71	5	04	28.89	30.04				
24	CLR	NC	10.00		55	39	47	55	8	13	28.92	30.07	24	CLR	NC	10.00		51	39	45	64	3	13	28.91	30.06				
SUNRISE: 0432					MAY 26					SUNSET: 1927					3-HOURLY OBSERVATION NOTES														
03	CLR	NC	10.00		51	41	46	69	0	00	28.93	30.09	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.																
06	CLR	NC	10.00		53	47	50	80	3	03	28.98	30.13	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																
09	CLR	NC	10.00		64	46	54	52	8	04	29.00	30.16	NC= No ceiling detected.																
12	CLR	NC	10.00		71	43	56	36	13	03	28.99	30.14	& = Original observation contained additional weather elements.																
15	SCT	NC	10.00		73	41	56	32	9	06	28.96	30.12	See page 3 for additional notes.																
18	CLR	NC	10.00		69	44	56	41	6	34	28.95	30.11																	
21	CLR	NC	10.00		58	41	49	54	7	31	28.98	30.13																	
24	CLR	NC	10.00		53	40	47	61	8	03	29.00	30.15																	
SUNRISE: 0432					MAY 27					SUNSET: 1928					SUMMARY BY HOUR														
03	CLR	NC	10.00		50	42	46	74	0	00	29.01	30.16	AVERAGES																
06	CLR	NC	10.00		55	48	51	77	0	00	29.04	30.20	RESULTANT WIND (MPH)																
09	CLR	NC	10.00		68	46	56	45	0	00	29.04	30.19	HOUR (LST)																
12	FEW	NC	10.00		75	43	58	32	9	35	29.01	30.16	CEILOMETER																
15	CLR	NC	10.00		78	43	59	29	10	35	28.95	30.10	EFF CLD AMT																
18	CLR	NC	10.00		76	44	58	32	0	00	28.91	30.06	DRY BULB																
21	CLR	NC	9.00		60	45	52	58	0	00	28.89	30.03	DEW POINT																
24	CLR	NC	10.00		60	44	52	56	5	19	28.84	29.98	WET BULB																
SUNRISE: 0431					MAY 28					SUNSET: 1929					RELATIVE HUMIDITY														
03	CLR	NC	10.00		57	46	51	67	8	24	28.78	29.92	PRESSURE (INCHES,HG)																
06	OVC	040	3.00	-RA BR	59	57	58	93	3	35	28.76	29.89	STATION																
09	CLR	NC	10.00		69	60	64	73	13	34	28.73	29.87	SEA LEVEL																
12	SCT	NC	10.00		74	54	62	50	20	32	28.70	29.84	VISIBILITY (MILES)																
15	FEW	NC	10.00		75	47	59	37	26	33	28.68	29.82	WIND SPEED (MPH)																
18	CLR	NC	10.00		71	44	56	38	20	34	28.70	29.84	SPEED																
21	CLR	NC	10.00		65	45	54	49	16	02	28.75	29.89	DIRECTION																
24	CLR	NC	10.00		53	45	49	74	7	30	28.75	29.89																	
SUNRISE: 0430					MAY 29					SUNSET: 1930																			
03	CLR	NC	10.00		57	43	50	60	13	31	28.73	29.87																	
06	CLR	NC	10.00		57	43	50	60	13	33	28.77	29.91																	
09	CLR	NC	10.00		66	47	56	50	14	34	28.78	29.92																	
12	CLR	NC	10.00		73	44	57	36	17	01	28.75	29.90																	
15	CLR	NC	10.00		74	43	57	33	10	35	28.71	29.85																	
18	CLR	NC	10.00		72	46	58	40	6	03	28.69	29.83																	
21	CLR	NC	10.00		61	45	53	56	5	12	28.69	29.83																	
24	CLR	NC	10.00		55	44	49	67	5	20	28.65	29.79																	
SUNRISE: 0430					MAY 30					SUNSET: 1931																			
03	CLR	NC	10.00		53	43	48	69	7	18	28.58	29.71																	
06	OVC	095	7.00	-TSRA					12	22	28.62																		
09	BKN	065	10.00		59	54	56	83	17	19	28.52	29.66																	
12	CLR	NC	10.00		70	57	62	64	23	21	28.41	29.54																	
15	FEW	NC	10.00		78	62	68	58	22	20	28.29	29.40																	
18	CLR	NC	9.00		75	48	60	39	24	29	28.29	29.41																	
21	FEW	NC	10.00		63	54	58	73	20	34	28.38	29.51																	
24	OVC	031	10.00		61	54	57	78	17	34	28.46	29.58																	

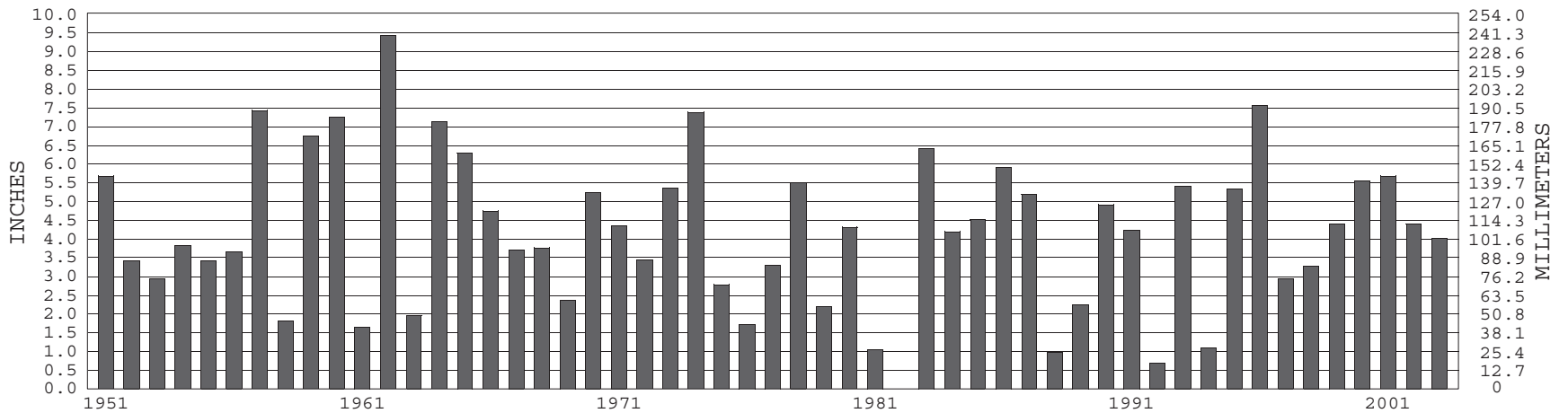
DUBUQUE, IA MAY TEMPERATURES



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

Long-Term (1951-2003) Mean: 57.4 1961-1990 Normal: 59.1

DUBUQUE, IA MAY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 4.20

1961-1990 Normal: 4.12



MAY 2003

DUBUQUE, IA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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