



FEBRUARY 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

FEBRUARY 2003
DUBUQUE, IA

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	35	29	32	13	30	31	33	0	FG+ FZFG BR			0.0	0.00	28.70	29.88			8.4	21	20	18	20	01																		
02	38	32	35	16	34	34	30	0	FG+ BR UP			0.0	T	28.57	29.74	11.3	08	11.8	29	08	24	07	02																		
03	35	24	30	11	30	31	35	0	RA SN FG+ BR UP			1.3	0.08	28.33	29.50	13.2	35	16.0	39	31	31	31	03																		
04	24	5	15	-5	3	10	50	0	SN UP			T	T	28.79	30.00	16.8	31	17.1	35	31	30	31	04																		
05	23	-1	11	-9	5	11	54	0				0.0	0.00	28.99	30.22	8.0	20	8.6	18	22	16	21	05																		
06	25	2	14	-6	8	14	51	0				0.0	0.00	29.05	30.26	10.9	32	12.7	23	34	20	34	06																		
07	10	-7	2*	-19	-5	2	63	0				0.0	0.00	29.02	30.25	8.9	25	11.0	23	21	21	21	07																		
08	26	4	15	-6	7	14	50	0				0.0	0.00	28.79	30.01	13.1	27	16.4	30	29	24	28	08																		
09	22	-7	8	-13	1	7	57	0				0.0	0.00	28.83	30.05	7.2	23	9.8	23	22	21	23	09																		
10	23	0	12	-9	1	8	53	0	SN BR			0.2	0.01	28.75	29.96	11.5	30	13.4	26	32	23	32	10																		
11	32	0	16	-6	5	11	49	0	SN FZFG BR UP HZ			0.2	0.02	28.66	29.87	15.1	27	18.4	46*	28	40*	25	11																		
12	21	-4	9	-13	-2	7	56	0				0.0	0.00	28.97	30.20	13.6	28	13.8	28	27	23	28	12																		
13	34	4	19	-3	12	18	46	0				0.0	0.00	28.98	30.19	3.8	29	7.4	17	30	15	27	13																		
14	33	15	24	1	20	23	41	0	SN FG+ FZFG BR			4.1	0.20	28.85	30.04	12.7	06	13.2	30	05	25	05	14																		
15	23	11	17	-6	10	15	48	0	SN BR UP			1.7	0.08	29.14	30.36	20.2	04	20.3	36	03	32	04	15																		
16	26	5	16	-7	6	13	49	0				0.0	0.00	29.18	30.41	14.4	04	14.5	25	05	21	05	16																		
17	23	6	15	-9	15	17	50	0	FG+ FZFG BR			0.0	0.00	28.92	30.13	2.8	15	6.8	15	19	14	20	17																		
18	40	22	31	7	25	29	34	0	BR			0.0	0.00	28.79	29.98	9.3	23	12.4	28	30	23	30	18																		
19	40	13	27	3	18	24	38	0				0.0	0.00	29.02	30.22	7.4	26	9.7	28	30	23	30	19																		
20	49*	25	37*	12	24	31	28	0				0.0	0.00	28.95	30.13	13.7	21	14.0	29	23	25	22	20																		
21	48	24	36	11	26	32	29	0				0.0	0.00	28.68	29.86	7.4	19	8.4	16	19	14	18	21																		
22	34	19	27	1	20	25	38	0	BR HZ			0.0	0.00	28.59	29.77	16.4	01	16.8	28	01	24	02	22																		
23	22	9	16	-10	2	13	49	0	SN BR			T	T	28.85	30.06	10.1	36	10.5	26	01	20	01	23																		
24	14	-2	6	-20	0	6	59	0	SN BR HZ			0.6	0.03	29.15	30.38	12.4	30	13.1	29	30	23	27	24																		
25	13	-8*	3	-24	-5	3	62	0				0.0	0.00	29.24	30.49	3.3	21	5.1	14	20	13	20	25																		
26	27	1	14	-13	3	12	51	0				0.0	0.00	28.98	30.20	4.1	18	4.5	15	19	13	19	26																		
27	36	9	23	-5	8	18	42	0				0.0	0.00	28.89	30.10	1.0	03	1.5	10	02	8	04	27																		
28	38	13	26	-2	12	23	39	0				0.0	0.00	28.91	30.10	1.4	22	2.1	12	09	8	22	28																		
< MONTHLY AVERAGES										TOTALS->				8.1	0.42	28.88	30.08			11.4	<- MONTHLY AVERAGES																				
-1.7										-6.7				-4.2				<-----DEPARTURE FROM NORMAL----->										-1.00				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.20 DATE :14				GREATEST 24-HR SNOWFALL: 4.1 DATE :14				GREATEST SNOW DEPTH:				SEA LEVEL PRESSURE				DATE TIME															
MONTHLY					SEASON TO DATE					NUMBER OF				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 28				PRECIPITATION ≥ 0.01 INCH : 6																			
TOTAL DEPARTURE					TOTAL DEPARTURE					DAYS WITH				MAXIMUM TEMP ≤ 32 :16				MINIMUM TEMP ≤ 0 : 8				PRECIPITATION ≥ 0.10 INCH : 1																			
HEATING: 1284					5511					->				THUNDERSTORMS : 0				HEAVY FOG : 5				SNOWFALL ≥ 1.0 INCH : 3																			
COOLING: 0					0																																				

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

DUBUQUE, IA

FEBRUARY 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		T		
03													03				T	0.02	T	0.01	T	T	T	T	03	0.03	0.08		
04	T	T	T	T		T	T						04							T	T	T	T	T	04		T		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10				T	T								10												10	T	0.01		
11													11				T	0.01	0.01	T	T	T		11		0.02			
12													12											12		0.00			
13													13											13		0.00			
14													14				T	T	0.01	0.01	0.02	0.02	0.01	T	T	0.07			
15			T	T	T		T	T	T	T	T	T	15	T	T	T				T				15	T	0.08			
16													16											16		0.00			
17													17											17		0.00			
18													18											18		0.00			
19													19											19		0.00			
20													20											20		0.00			
21													21											21		0.00			
22													22											22		0.00			
23													23											23	T	T			
24	T	T	T	T	T			T	T	T	T	T	24		T	T								24	T	0.03			
25													25											25		0.00			
26													26											26		0.00			
27													27											27		0.00			
28													28											28		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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

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

DUBUQUE, IA FEBRUARY 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:

Note: 2002 LCD Annual, the element "Normal Dry Bulb" was not updated using the 1971–2000 Normals. Correction will be made in the 2003 LCD Annual.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.25	5.00	
02							<.25	3.00	
03							.25	7.00	
04							5.00	10.00	
05							10.00	10.00	
06							7.00	10.00	
07							10.00	10.00	
08							7.00	10.00	
09							8.00	10.00	
10							1.75	10.00	
11							.25	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							.25	10.00	
15							1.75	10.00	
16							10.00	10.00	
17							.25	10.00	
18							3.00	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							2.50	10.00	
23							2.00	10.00	
24							1.75	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							9.00	10.00	
28							8.00	10.00	
MONTHLY AVGS							5.63	9.46	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH: SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 28									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 5 12 16									

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

FEBRUARY 2003

DBQ

WBAN # 94908

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		DY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0717				FEB 01		SUNSET: 1716				SUNRISE: 0710				FEB 07		SUNSET: 1724							
03	OVC	007	4.00BR	30	27	29	88	7	28	28.81	29.99	03	CLR	NC	10.00	-2	-7	-3	79	6	31	29.12	30.35
06	OVC	003	2.00BR	29	27	28	92			28.76	29.95	06	CLR	NC	10.00	-5	-10	-6	79	8	28	29.11	30.35
09	OVC	001	0.75BR	30	30	30	100	13	19	28.75	29.94	09	CLR	NC	10.00	-3	-8	-4	79	8	29	29.11	30.35
12	OVC	007	4.00BR	33	30	32	89	12	18	28.70	29.88	12	CLR	NC	10.00	5	-4	3	66	13	26	29.06	30.30
15	OVC	009	4.00BR	35	32	34	89	8	15	28.63	29.81	15	CLR	NC	10.00	9	-4	7	55	16	26	28.99	30.23
18	FEW	NC	5.00BR	34	32	33	92	7	14	28.62	29.81	18	CLR	NC	10.00	7	-2	5	66	10	23	28.94	30.19
21	OVC	006	4.00BR	34	33	34	97	9	14	28.63	29.81	21	CLR	NC	10.00	7	-2	5	66	13	20	28.88	30.11
24	OVC	004	2.50BR	34	33	34	97	0	00	28.62	29.80	24	CLR	NC	10.00	10	1	8	67	17	21	28.80	30.02
SUNRISE: 0716				FEB 02		SUNSET: 1718				SUNRISE: 0709				FEB 08		SUNSET: 1726							
03	VV	001	0.25FG	33	33	33	100	3	13	28.61	29.78	03	CLR	NC	10.00	12	7	11	80	15	21	28.74	29.96
06	VV	001	0.25FG	33	33	33	100	8	06	28.62	29.80	06	OVC	075	9.00	14	10	13	84	15	22	28.69	29.91
09	VV	001	<.25FG	32	32	32	100	13	03	28.65	29.83	09	OVC	021	7.00	20	16	19	85	12	24	28.73	29.94
12	OVC	003	2.50BR	36	35	36	97	14	10	28.61	29.79	12	SCT	NC	10.00	26	16	23	66	17	28	28.75	29.95
15	OVC	005	2.50BR	37	35	36	93	12	08	28.56	29.73	15	FEW	NC	10.00	23	12	20	63	18	28	28.77	29.98
18	OVC	007	3.00BR	37	35	36	93	14	07	28.52	29.68	18	CLR	NC	10.00	16	-1	12	47	20	29	28.85	30.06
21	OVC	005	3.00BR	36	34	35	93	17	10	28.54	29.70	21	CLR	NC	10.00	10	-4	7	53	20	30	28.92	30.14
24	OVC	005	3.00BR	35	33	34	93	14	08	28.42	29.59	24	CLR	NC	10.00	4	-6	2	63	15	32	28.95	30.17
SUNRISE: 0714				FEB 03		SUNSET: 1719				SUNRISE: 0707				FEB 09		SUNSET: 1727							
03	OVC	003	2.00BR	35	33	34	93	12	06	28.35	29.51	03	CLR	NC	10.00	1	-8	0	65	9	33	28.97	30.19
06	VV	001	0.50UP FG	34	33	34	97	14	02	28.34	29.50	06	CLR	NC	10.00	-5	-10	-6	79	6	22	28.95	30.19
09	OVC	001	0.50FG	33	33	33	100	12	36	28.33	29.50	09	CLR	NC	10.00	2	-5	1	72	10	24	28.93	30.17
12	OVC	003	4.00BR	33	32	33	96	15	36	28.30	29.47	12	OVC	044	10.00	12	-2	9	53	8	22	28.89	30.11
15	OVC	005	6.00BR	32	30	31	92	16	35	28.26	29.42	15	OVC	045	10.00	18	5	15	57	15	22	28.78	30.00
18	OVC	013	1.50-SN BR	30	28	29	92	20	33	28.31	29.48	18	CLR	NC	10.00	14	9	13	80	9	20	28.74	29.96
21	OVC	017	1.50-SN BR	30	27	29	88	24	32	28.35	29.52	21	CLR	NC	10.00	13	8	12	81	10	19	28.64	29.86
24	OVC	014	6.00UP	25	20	23	81	25	31	28.45	29.62	24	OVC	006	8.00	22	20	21	92	18	22	28.59	29.79
SUNRISE: 0713				FEB 04		SUNSET: 1720				SUNRISE: 0706				FEB 10		SUNSET: 1728							
03	OVC	060	9.00	20	14	18	78	21	32	28.54	29.72	03	OVC	019	3.00-SN BR	22	20	21	92	13	24	28.56	29.75
06	BKN	014	10.00	11	5	10	77	21	31	28.63	29.83	06	BKN	075	10.00	17	7	14	64	22	32	28.60	29.80
09	CLR	NC	10.00	7	0	6	73	16	31	28.73	29.93	09	CLR	NC	10.00	10	0	8	63	17	30	28.70	29.92
12	CLR	NC	10.00	10	1	8	67	16	30	28.80	30.00	12	BKN	024	10.00	10	0	8	63	14	32	28.81	30.02
15	CLR	NC	10.00	12	2	10	64	21	30	28.87	30.08	15	CLR	NC	10.00	10	-5	7	50	16	30	28.84	30.05
18	CLR	NC	10.00	10	0	8	63	20	29	28.93	30.16	18	CLR	NC	10.00	3	-9	1	57	9	30	28.86	30.08
21	CLR	NC	10.00	9	-1	7	64	9	33	29.00	30.23	21	CLR	NC	10.00	0	-8	-1	69	8	27	28.88	30.11
24	CLR	NC	10.00	5	-3	4	69	8	32	29.03	30.26	24	SCT	NC	10.00	1	-9	0	62	8	27	28.82	30.05
SUNRISE: 0712				FEB 05		SUNSET: 1722				SUNRISE: 0705				FEB 11		SUNSET: 1729							
03	FEW	NC	10.00	3	-3	2	76	3	23	29.04	30.27	03	OVC	100	10.00	1	-8	0	65	9	24	28.76	29.99
06	FEW	NC	10.00	-1	-5	-2	82	0	00	29.04	30.27	06	FEW	NC	10.00	1	-7	0	68	13	20	28.66	29.88
09	OVC	060	10.00	7	2	6	80	6	21	29.05	30.28	09	OVC	020	6.00-SN BR	11	7	10	84	22	23	28.60	29.81
12	OVC	055	10.00	14	5	12	67	12	20	29.02	30.25	12	SCT	NC	10.00	27	14	23	58	21	27	28.55	29.75
15	OVC	044	10.00	19	8	16	62	13	19	28.95	30.18	15	VV	013	1.00-SN	31	25	29	79	26	25	28.41	29.60
18	BKN	035	10.00	18	9	16	68	12	19	28.93	30.16	18	SCT	NC	8.00	17	6	14	62	23	30	28.64	29.86
21	OVC	025	10.00	20	13	18	74	10	21	28.93	30.15	21	CLR	NC	10.00	11	0	9	61	18	30	28.79	30.01
24	OVC	070	10.00	23	16	21	74	14	21	28.92	30.13	24	SCT	NC	10.00	7	-3	5	63	15	30	28.88	30.09
SUNRISE: 0711				FEB 06		SUNSET: 1723				SUNRISE: 0704				FEB 12		SUNSET: 1731							
03	OVC	037	10.00	24	18	22	77	10	26	28.92	30.14	03	CLR	NC	10.00	2	-8	0	63	16	29	28.93	30.14
06	CLR	NC	8.00	16	12	15	84	14	33	28.98	30.19	06	CLR	NC	10.00	-3	-11	-4	68	9	27	28.95	30.19
09	CLR	NC	9.00	15	8	13	74	20	34	29.04	30.25	09	CLR	NC	10.00	2	-4	1	76	17	28	29.01	30.24
12	CLR	NC	10.00	19	9	16	65	10	34	29.08	30.29	12	CLR	NC	10.00	14	2	11	58	20	28	28.98	30.21
15	BKN	027	10.00	19	8	16	62	13	32	29.06	30.27	15	CLR	NC	10.00	21	2	16	43	20	30	28.95	30.18
18	CLR	NC	10.00	13	4	11	67	12	31	29.10	30.32	18	CLR	NC	10.00	17	3	14	54	10	29	28.99	30.22
21	CLR	NC	10.00	7	0	6	73	15	32	29.13	30.36	21	CLR	NC	10.00	16	2	13	54	12	28	28.98	30.21
24	CLR	NC	10.00	2	-4	1	76	12	33	29.13	30.37	24	CLR	NC	10.00	10	1	8	67	8	30	29.00	30.23

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

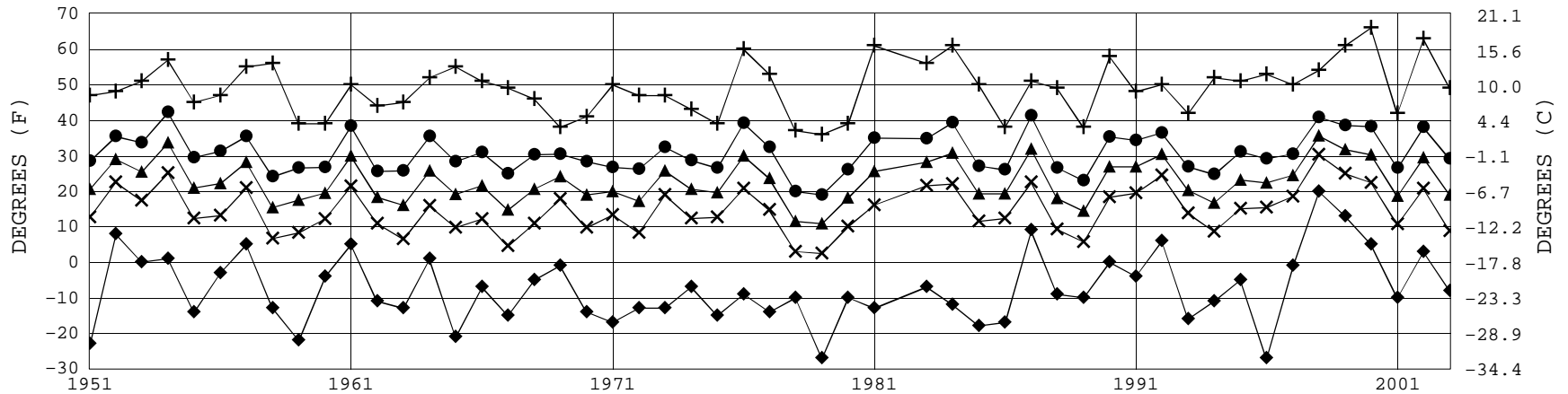
FEBRUARY 2003

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 Oktas		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 Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
						SUNRISE: 0702 FEB 13 SUNSET: 1732															SUNRISE: 0654 FEB 19 SUNSET: 1740									
03	CLR	NC				11	2	9	67	9	34	28.98	30.20	03	CLR	NC				21	13	19	71	15	32	28.95	30.15			
06	CLR	NC				4	-1	3	80	6	23	28.97	30.20	06	CLR	NC				17	11	15	77	3	29	28.98	30.19			
09	OVC	048				16	9	14	74	13	25	29.00	30.22	09	CLR	NC				22	14	20	71	6	30	29.03	30.23			
12	OVC	050				27	13	23	55	7	34	29.00	30.22	12	CLR	NC				33	18	28	54	8	26	29.06	30.25			
15	CLR	NC				33	20	29	59	12	28	28.98	30.19	15	CLR	NC				39	23	33	53	12	24	29.02	30.22			
18	CLR	NC				27	21	25	78	0	00	28.96	30.18	18	CLR	NC				34	24	30	67	10	22	29.04	30.24			
21	CLR	NC				24	17	22	75	6	06	28.95	30.16	21	CLR	NC				29	22	27	75	12	22	29.05	30.26			
24	CLR	NC				21	16	20	81	7	11	28.91	30.11	24	CLR	NC				27	21	25	78	13	21	29.05	30.25			
						SUNRISE: 0701 FEB 14 SUNSET: 1733															SUNRISE: 0652 FEB 20 SUNSET: 1741									
03	CLR	NC				15	13	14	91	7	06	28.88	30.08	03	CLR	NC				26	20	24	78	10	20	29.03	30.22			
06	CLR	NC				16	13	15	88	8	04	28.85	30.05	06	CLR	NC				26	20	24	78	12	20	29.01	30.21			
09	CLR	NC				25	18	23	75	10	07	28.85	30.04	09	CLR	NC				34	24	30	67	13	20	29.00	30.20			
12	CLR	NC				30	19	26	64	12	08	28.81	30.01	12	CLR	NC				45	27	38	49	18	21	28.97	30.16			
15	BKN	044				33	22	29	64	12	05	28.77	29.96	15	CLR	NC				48	27	39	44	18	22	28.91	30.09			
18	VV	005			-SN BR	28	26	27	92	16	05	28.83	30.03	18	CLR	NC				40	28	35	63	13	21	28.89	30.07			
21	OVC	005			-SN BR	26	25	26	96	16	05	28.87	30.06	21	CLR	NC				34	27	31	76	12	19	28.88	30.06			
24	SCT	NC				23	17	21	78	18	05	28.92	30.11	24	CLR	NC				31	25	29	79	13	20	28.82	30.00			
						SUNRISE: 0660 FEB 15 SUNSET: 1735															SUNRISE: 0651 FEB 21 SUNSET: 1742									
03	CLR	NC				20	14	18	78	23	04	28.96	30.16	03	CLR	NC			9.00	30	25	28	82	12	20	28.80	29.98			
06	OVC	016			-SN BR	17	13	16	84	22	04	29.04	30.25	06	CLR	NC			9.00	27	22	25	81	6	19	28.75	29.93			
09	OVC	110			UP	15	9	14	77	21	03	29.14	30.36	09	CLR	NC			8.00	31	25	29	79	9	17	28.73	29.91			
12	BKN	014			UP	17	11	15	77	20	04	29.18	30.40	12	OVC	100			9.00	43	30	38	60	12	19	28.69	29.87			
15	SCT	NC				17	9	15	70	17	04	29.18	30.40	15	CLR	NC			10.00	47	27	39	46	10	18	28.59	29.75			
18	OVC	110				16	9	14	74	20	04	29.23	30.45	18	CLR	NC			10.00	37	27	33	67	6	21	28.62	29.80			
21	CLR	NC				12	6	11	77	16	04	29.28	30.52	21	CLR	NC			9.00	32	26	30	79	0	00	28.60	29.78			
24	CLR	NC				11	7	10	84	18	03	29.23	30.47	24	CLR	NC			9.00	34	28	32	79	9	36	28.60	29.76			
						SUNRISE: 0658 FEB 16 SUNSET: 1736															SUNRISE: 0649 FEB 22 SUNSET: 1744									
03	CLR	NC				7	3	6	84	15	03	29.24	30.47	03	OVC	007			4.00 BR	34	32	33	92	15	02	28.56	29.72			
06	CLR	NC				5	2	4	87	14	03	29.24	30.49	06	OVC	005			4.00 BR	29	27	28	92	18	04	28.56	29.74			
09	CLR	NC				10	5	9	80	16	03	29.23	30.47	09	OVC	011			6.00 HZ	26	21	24	81	18	02	28.61	29.78			
12	CLR	NC				20	8	17	60	16	04	29.20	30.42	12	OVC	013			8.00	26	20	24	78	21	01	28.56	29.73			
15	CLR	NC				26	8	21	46	16	05	29.15	30.37	15	OVC	017			10.00	26	19	24	75	15	01	28.53	29.70			
18	CLR	NC				21	10	18	62	13	04	29.11	30.34	18	OVC	034			10.00	23	16	21	74	14	35	28.60	29.78			
21	CLR	NC				15	8	13	74	9	03	29.09	30.31	21	OVC	034			10.00	22	13	19	68	14	36	28.64	29.84			
24	CLR	NC				12	7	11	80	13	04	29.06	30.28	24	CLR	NC			10.00	19	8	16	62	14	36	28.67	29.87			
						SUNRISE: 0657 FEB 17 SUNSET: 1737															SUNRISE: 0648 FEB 23 SUNSET: 1745									
03	CLR	NC				8	5	7	87	7	02	29.00	30.22	03	CLR	NC			10.00	15	6	13	67	10	36	28.72	29.92			
06	FEW	NC				7	4	6	87	7	04	28.98	30.21	06	CLR	NC			10.00	11	3	9	70	12	01	28.80	30.01			
09	OVC	001			FZFG	17	15	16	92	6	11	28.97	30.19	09	CLR	NC			10.00	12	0	9	58	15	36	28.85	30.05			
12	OVC	003			BR	21	18	20	88	3	16	28.95	30.17	12	CLR	NC			10.00	18	-1	14	43	9	33	28.89	30.10			
15	OVC	003			BR	22	19	21	89	7	14	28.87	30.08	15	CLR	NC			10.00	22	-1	17	36	12	02	28.86	30.06			
18	OVC	001			BR	22	20	21	92	9	21	28.86	30.07	18	BKN	100			10.00	20	0	15	41	7	36	28.91	30.11			
21	VV	001			BR	22	19	21	89	10	19	28.83	30.03	21	OVC	065			10.00	19	2	15	47	8	36	28.92	30.14			
24	OVC	005			BR	19	21	21	89	13	19	28.77	29.97	24	OVC	045			2.50 -SN BR	14	11	13	88	10	35	28.94	30.16			
						SUNRISE: 0655 FEB 18 SUNSET: 1738															SUNRISE: 0646 FEB 24 SUNSET: 1746									
03	OVC	007			BR	23	21	22	92	10	19	28.73	29.93	03	OVC	049			4.00 -SN BR	11	7	10	84	13	34	28.98	30.19			
06	OVC	005			BR	24	22	23	91	9	20	28.75	29.95	06	CLR	NC			10.00	6	1	5	80	12	32	29.02	30.24			
09	FEW	NC			BR	28	26	27	92	8	26	28.79	29.99	09	OVC	017			2.00 -SN	9	3	8	77	15	31	29.11	30.33			
12	CLR	NC				35	27	32	72	9	21	28.79	29.98	12	BKN	028			10.00	12	3	10	67	15	29	29.15	30.38			
15	OVC	100				38	29	34	70	16	20	28.75	29.93	15	OVC	032			9.00	12	1	10	61	17	30	29.18	30.41			
18	CLR	NC				36	31	34	82	13	22	28.76	29.95	18	CLR	NC			10.00	6	-6	4	57	16	29	29.24	30.49			
21	CLR	NC				33	28	31	82	10	31	28.86	30.04	21	CLR	NC			10.00	2	-7	1	66	8	31	29.28	30.53			
24	CLR	NC				26	16	23	66	17	30	28.92	30.12	24	CLR	NC			10.00	-1	-8	-2	72	5	28	29.32	30.57			

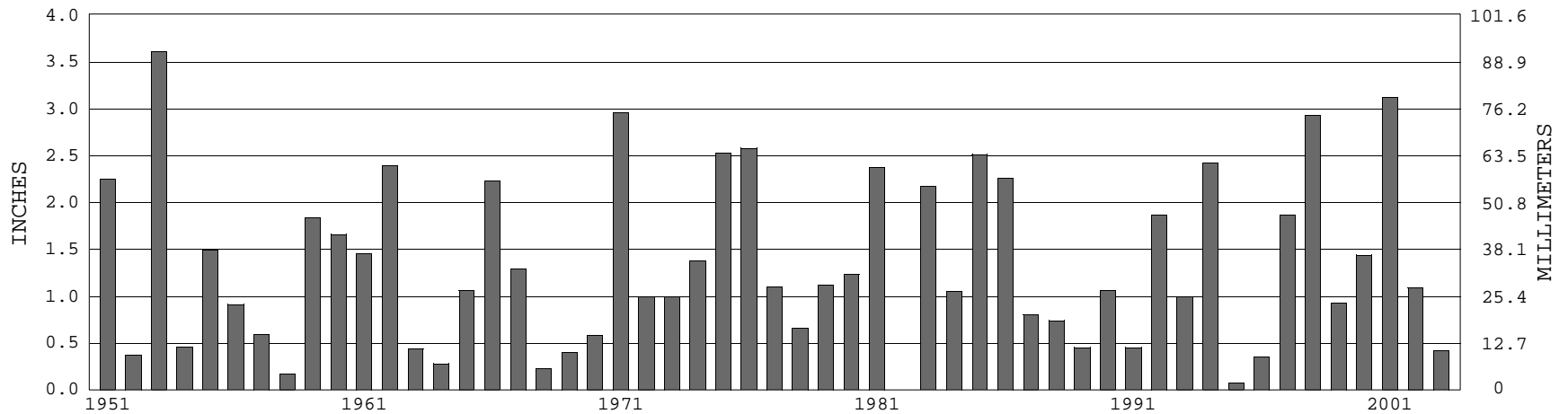
DUBUQUE, IA FEBRUARY TEMPERATURES



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

Long-Term (1951-2003) Mean: 22.3 1961-1990 Normal: 23.1

DUBUQUE, IA FEBRUARY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 1.33

1961-1990 Normal: 1.42



FEBRUARY 2003

DUBUQUE, IA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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