



AUGUST 2002

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					
																			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	89	66	78*	6	71	74	0	13	BR			0.0	0.00	28.76	29.88	5.5	23	12.3	22	34	18	35	01	
02	79	57	68	-4	58	62	0	3				0.0	0.00	28.98	30.12	7.3	01	7.7	16	01	14	02	02	
03	83	59	71	-1	66	69	0	6	BR			0.0	0.00	28.98	30.12	7.6	15	8.2	17	14	13	17	03	
04	81	69	75	3	71	72	0	10	RA BR HZ			0.0	0.14	28.97	30.11	3.1	05	5.3	22	36	18	02	04	
05	83	65	74	2	70	71	0	9	RA FG+ BR			0.0	0.15	29.01	30.14	5.4	04	6.1	25	08	20	08	05	
06	76	57	67	-5	56	60	0	2				0.0	0.00	29.12	30.27	10.2	07	10.7	22	07	18	06	06	
07	77	52	65	-7	56	60	0	0				0.0	0.00	29.13	30.29	4.1	08	5.5	14	06	12	03	07	
08	79	56	68	-4	59	62	0	3				0.0	0.00	29.12	30.27	2.1	11	3.5	12	08	9	08	08	
09	79	56	68	-3	60	63	0	3	BR			0.0	0.00	29.02	30.16	4.3	16	4.6	15	17	12	16	09	
10	85	60	73	2	64	67	0	8	BR HZ			0.0	0.00	28.87	30.01	6.9	22	7.4	18	24	16	22	10	
11	89	61	75	4	67	70	0	10	FG+ BR HZ			0.0	0.00	28.84	29.97	6.8	18	6.9	18	21	15	21	11	
12	84	66	75	4	67	69	0	10	RA BR HZ VCTS			0.0	0.12	28.78	29.91	7.9	19	8.9	21	17	17	17	12	
13	74	57	66	-5	64	65	0	1	RA BR			0.0	0.01	28.74	29.88	4.2	30	6.8	20	31	17	31	13	
14	78	54	66	-5	56	60	0	1	BR HZ			0.0	0.00	28.73	29.87	7.9	21	9.0	20	24	16	23	14	
15	83	58	71	1	63	66	0	6	HZ			0.0	0.00	28.73	29.86	10.8	20	12.2	30	18	25	19	15	
16	81	54	68	-2	61	64	0	3	BR			0.0	0.00	28.87	30.01	4.5	18	7.0	23	17	18	17	16	
17	78	55	67	-3	61	64	0	2	RA			0.0	T	28.74	29.87	10.2	24	13.9	33	18	25	20	17	
18	75	46*	61*	-8	50	56	4	0	TS RA			0.0	T	28.82	29.97	1.4	18	4.6	14	33	13	33	18	
19	78	54	66	-3	54	59	0	1	RA HZ			0.0	0.02	28.85	29.99	8.0	01	9.0	22	01	18	01	19	
20	75	51	63	-6	57	60	2	0	BR HZ			0.0	0.00	28.96	30.10	7.3	14	8.8	24	14	20	15	20	
21	89*	65	77	8	70	71	0	12	TSRA RA FG BR HZ SQ			0.0	5.99	28.81	29.95	11.4	19	13.8	62*	25	41*	29	21	
22	82	69	76	7	70	71	0	11	RA BR			0.0	2.97	28.87	30.00	2.1	02	6.5	29	34	24	34	22	
23	81	66	74	5	68	69	0	9	TSRA RA BR HZ			0.0	0.29	28.83	29.96	1.4	35	5.6	26	11	21	11	23	
24	80	65	73	4	65	68	0	8	RA BR HZ			0.0	0.02	28.86	29.99	6.3	34	6.5	16	33	13	33	24	
25	83	61	72	3	63	66	0	7	BR			0.0	0.00	28.89	30.03	2.8	36	3.5	16	31	12	01	25	
26	81	61	71	2	62	66	0	6	FG+ BR HZ			0.0	0.00	28.92	30.05	3.2	06	3.6	10	04	8	09	26	
27	82	57	70	2	63	66	0	5	BR			0.0	0.00	29.03	30.17	5.4	08	6.4	15	09	13	10	27	
28	75	62	69	2	64	65	0	4	FG BR HZ			0.0	0.00	29.09	30.23	4.6	05	5.1	15	05	13	03	28	
29	78	57	68	1	58	62	0	3	FG+ BR			0.0	0.00	29.05	30.20	3.0	09	4.5	12	05	9	10	29	
30	80	57	69	2	62	65	0	4	FG+ BR HZ			0.0	0.00	29.10	30.25	4.5	10	5.3	17	09	10	13	30	
31	80	61	71	4	62	65	0	6	BR HZ			0.0	0.00	29.11	30.25	6.1	14	6.2	16	13	13	13	31	
80.5 59.2 69.9 ■ ■ ■ 62.5 65.4 0.2 5.4 < MONTHLY AVERAGES TOTALS->										0.0	9.71	28.92	30.06	1.5	18	7.3	<- MONTHLY AVERAGES							
0.7 -1.0 -1.1 ■ ■ ■ <-----DEPARTURE FROM NORMAL----->										5.12	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 8.95 DATE: 21-22				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL: 0.0 DATE: 21-22				MAXIMUM				DATE		TIME					
TOTAL DEPARTURE									GREATEST SNOW DEPTH:				MINIMUM				DATE		TIME					
HEATING: 6 -15									NUMBER OF DAYS WITH → MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 9							
COOLING: 166 -9									MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH : 6							
									THUNDERSTORMS : 3				HEAVY FOG : 5				SNOWFALL ≥ 1.0 INCH : 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

DUBUQUE, IA

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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			0.00	
04			0.03	0.01			0.09						04	0.01		T	0.06	0.02			0.06	0.01			04			0.14	
05													05												05			0.15	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10													10												10			0.00	
11													11												11			0.00	
12											T		12					T	0.11					T	0.01	12			0.12
13	T		T	0.01									13												13			0.01	
14													14												14			0.00	
15													15												15			0.00	
16													16												16			0.00	
17							T						17												17			T	
18													18												18			T	
19	0.02												19								T				19			0.02	
20													20												20			0.00	
21													21				0.19								21	5.60		5.99	
22	0.99	0.46	0.27	0.62	0.70	0.01	0.02	0.02	0.03				22								1.89	1.46	1.05	1.01	22	3.12		2.97	
23		0.03	0.03	0.12	0.10	0.01							23												23			0.29	
24			0.02										24								T				24			0.02	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30												30			0.00	
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.

* = 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

**DUBUQUE, IA
AUGUST 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							5.00	10.00	
02							10.00	10.00	
03							4.00	10.00	
04							1.75	10.00	
05							.25	10.00	
06							10.00	10.00	
07							9.00	10.00	
08							9.00	10.00	
09							4.00	10.00	
10							3.00	10.00	
11							.25	10.00	
12							2.50	10.00	
13							1.75	10.00	
14							4.00	10.00	
15							1.75	10.00	
16							6.00	10.00	
17							7.00	10.00	
18							7.00	10.00	
19							5.00	10.00	
20							1.75	10.00	
21							.00	10.00	
22							.75	10.00	
23							1.25	10.00	
24							2.50	10.00	
25							4.00	10.00	
26							.25	10.00	
27							1.75	10.00	
28							.50	7.00	
29							<.25	10.00	
30							<.25	9.00	
31							1.50	9.00	
MONTHLY AVGS							3.92	9.84	

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 16 7

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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 Off	Observation Time (LST)	Eff Cld Amt OkTas	Visibility (Miles)		Dry Bulb	Dew Point	Wet Bulb		Speed (Mph)	Direction Tens of Deg	Station	Sea Level		Sky Cover	Ceiling 100's Off	Observation Time (LST)	Eff Cld Amt OkTas	Visibility (Miles)		Dry Bulb	Dew Point	Wet Bulb		Speed (Mph)	Direction Tens of Deg	Station	Sea Level
Sunrise: 0455				AUG 01		Sunset: 1923				Sunrise: 0501				AUG 07		Sunset: 1916													
03	CLR	NC			7.00	BR	73	71	72	94	10	19	28.72	29.84	03	CLR	NC			10.00	52	51	52	97	5	02	29.14	30.29	
06	CLR	NC			5.00		74	72	73	94	10	18	28.74	29.86	06	CLR	NC			9.00	55	53	54	93	6	04	29.16	30.3	
09	CLR	NC			10.00		83	75	77	77	14	20	28.72	29.84	09	CLR	NC			10.00	67	58	62	73	9	13	29.16	30.32	
12	CLR	NC			10.00		89	78	81	70	18	19	28.69	29.81	12	CLR	NC			10.00	72	55	62	55	3	VR	29.16	30.32	
15	FEW	NC			10.00		87	76	79	70	14	27	28.73	29.85	15	CLR	NC			10.00	75	56	64	52	6	04	29.12	30.27	
18	FEW	NC			10.00	81	73	75	77	17	33	28.76	29.89	18	CLR	NC			10.00	74	57	64	56	6	10	29.10	30.26		
21					10.00	74	66	69	76	15	35	28.84	29.96	21	CLR	NC			10.00	64	59	61	84	3	10	29.10	30.26		
24	CLR	NC			10.00	66	56	60	70	10	36	28.89	30.01	24	CLR	NC			10.00	59	56	57	90	0	00	29.11	30.26		
Sunrise: 0456				AUG 02		Sunset: 1922				Sunrise: 0502				AUG 08		Sunset: 1915													
03	CLR	NC			10.00	61	54	57	78	9	02	28.94	30.08	03	CLR	NC			10.00	59	55	57	87	0	00	29.13	30.28		
06	CLR	NC			10.00	60	55	57	84	8	36	28.98	30.13	06	CLR	NC			10.00	59	54	56	83	0	00	29.16	30.32		
09	CLR	NC			10.00	69	59	63	70	12	01	28.99	30.14	09	CLR	NC			10.00	69	59	63	70	6	17	29.18	30.33		
12	CLR	NC			10.00	76	62	67	62	9	01	28.99	30.14	12	SCT	NC			10.00	74	59	65	60	6	03	29.15	30.30		
15	CLR	NC			10.00	78	60	67	54	8	01	28.97	30.12	15	SCT	NC			10.00	77	60	66	56	5	VR	29.10	30.25		
18	CLR	NC			10.00	76	61	67	60	7	36	28.96	30.11	18	CLR	NC			10.00	76	61	67	60	5	13	29.07	30.22		
21	CLR	NC			10.00	65	58	61	78	0	00	29.00	30.14	21	CLR	NC			10.00	66	62	64	87	0	00	29.08	30.23		
24	CLR	NC			10.00	62	58	60	86	6	03	29.00	30.14	24	CLR	NC			10.00	63	59	61	87	0	00	29.06	30.21		
Sunrise: 0457				AUG 03		Sunset: 1921				Sunrise: 0503				AUG 09		Sunset: 1914													
03	CLR	NC			10.00	60	57	58	90	3	09	29.00	30.14	03	CLR	NC			6.00	BR	62	59	60	90	7	14	29.04	30.19	
06	CLR	NC			7.00	64	60	62	87	9	14	29.01	30.16	06	CLR	NC			4.00	BR	59	57	58	93	0	00	29.09	30.24	
09	CLR	NC			10.00	73	61	66	66	10	17	29.05	30.20	09	CLR	NC			10.00	72	61	65	69	7	16	29.08	30.22		
12	CLR	NC			10.00	80	67	71	64	9	17	29.01	30.15	12	FEW	NC			10.00	76	58	65	54	0	00	29.04	30.19		
15	CLR	NC			10.00	83	70	74	65	12	17	28.97	30.11	15	CLR	NC			10.00	78	60	67	54	10	14	28.99	30.14		
18	CLR	NC			9.00	81	72	75	74	10	16	28.92	30.05	18	CLR	NC			10.00	76	61	67	60	6	17	28.96	30.11		
21	CLR	NC			8.00	76	73	74	91	9	15	28.92	30.06	21	CLR	NC			10.00	65	60	62	84	0	00	28.94	30.09		
24	CLR	NC			4.00	75	74	74	96	9	16	28.91	30.03	24	CLR	NC			10.00	62	58	60	86	3	19	28.94	30.09		
Sunrise: 0458				AUG 04		Sunset: 1920				Sunrise: 0504				AUG 10		Sunset: 1912													
03	OVC	029			7.00	-RA	71	67	68	87	10	32	28.99	30.12	03	CLR	NC			7.00	61	59	60	93	5	18	28.92	30.05	
06	OVC	050			10.00		70	68	69	93	5	29	29.00	30.14	06	CLR	NC			3.00	BR	62	60	61	93	7	20	28.89	30.03
09	OVC	050			10.00		74	70	71	88	6	03	29.00	30.14	09	CLR	NC			7.00	75	63	67	66	10	21	28.89	30.03	
12	CLR	NC			10.00		78	71	73	79	8	13	28.96	30.10	12	BKN	065			10.00	82	65	71	56	10	25	28.88	30.01	
15	SCT	NC			10.00		80	72	74	76	3	06	28.97	30.11	15	CLR	NC			10.00	83	65	71	55	12	23	28.85	29.98	
18	BKN	090			10.00	80	74	76	82	6	04	28.96	30.10	18	CLR	NC			9.00	81	68	72	65	8	22	28.83	29.96		
21	CLR	NC			10.00	74	72	73	94	7	04	28.97	30.11	21	CLR	NC			6.00	BR	70	66	67	87	3	20	28.85	29.98	
24	OVC	028			10.00	74	71	72	91	5	12	28.97	30.11	24	CLR	NC			4.00	BR	66	64	65	93	3	19	28.87	29.99	
Sunrise: 0459				AUG 05		Sunset: 1919				Sunrise: 0506				AUG 11		Sunset: 1911													
03	CLR	NC			6.00	BR	71	71	71	100	8	01	28.96	30.09	03	CLR	NC			3.00	BR	64	62	63	93	3	20	28.85	29.98
06	BKN	100			1.00		72	72	72	100	0	00	28.98	30.12	06	VV	001			1.00	BR	62	61	61	96	3	20	28.88	30.01
09	SCT	NC			5.00		76	73	74	91	7	02	29.01	30.15	09	CLR	NC			7.00	79	68	72	69	9	19	28.88	30.01	
12	BKN	016			10.00		81	73	75	77	6	VR	28.99	30.12	12	CLR	NC			10.00	86	69	74	57	10	17	28.87	30.00	
15	BKN	080			10.00		80	74	76	82	6	33	28.99	30.12	15	CLR	NC			9.00	88	70	75	55	9	18	28.84	29.97	
18	BKN	100			9.00	76	73	74	91	3	03	28.99	30.13	18	CLR	NC			7.00	80	70	73	71	13	20	28.79	29.92		
21	OVC	070			10.00	69	63	65	81	13	07	29.06	30.20	21	CLR	NC			10.00	72	63	66	73	6	18	28.80	29.93		
24	SCT	NC			10.00	65	57	60	76	10	05	29.09	30.23	24	CLR	NC			4.00	BR	72	69	70	91	8	18	28.81	29.93	
Sunrise: 0500				AUG 06		Sunset: 1917				Sunrise: 0507				AUG 12		Sunset: 1910													
03	CLR	NC			10.00	61	55	58	81	15	06	29.11	30.25	03	CLR	NC			3.00	BR	71	69	70	94	10	18	28.77	29.89	
06	CLR	NC			10.00	57	54	55	90	13	05	29.13	30.28	06	FEW	NC			3.00	BR	70	68	69	93	9	19	28.77	29.90	
09	CLR	NC			10.00	66	57	61	73	15	06	29.16	30.31	09	FEW	NC			4.00	HZ	75	68	70	79	8	24	28.80	29.93	
12	CLR	NC			10.00	71	56	62	59	13	07	29.14	30.29	12	CLR	NC			8.00	82	68	73	63	13	18	28.75	29.88		
15	CLR	NC			10.00	75	58	65	55	10	08	29.10	30.25	15	OVC	095			10.00	80	69	73	69	8	20	28.77	29.90		
18	CLR	NC			10.00	73	57	63	57	9	06	29.08	30.23	18	BKN	100			9.00	VCTS -RA	67	65	66	93	8	21	28.78	29.91	
21	CLR	NC			10.00	64	56	59	75	9	07	29.11	30.26	21	CLR	NC			10.00	67	65	66	93	3	17	28.78	29.91		
24	CLR	NC			10.00	58	53	55	84	9	10	29.13	30.28	24	BKN	100			7.00	67	65	66	93	8	19	28.78	29.91		

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

AUGUST 2002

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	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)		DIRECTION TENS OF DEG	STATION	SEA LEVEL	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL		
SUNRISE: 0508						AUG 13		SUNSET: 1908						SUNRISE: 0514						AUG 19		SUNSET: 1859									
03	SCT	NC			3.00	BR	67	66	66	97	3	12	28.76	29.89	03	OVC	030			10.00	62	58	60	86	9	03	28.72	29.86			
06	SCT	NC			2.50	BR	67	66	66	97	3	13	28.75	29.88	06	CLR	NC			10.00	59	53	56	81	6	36	28.80	29.94			
09	CLR	NC			7.00		72	67	69	84	6	23	28.74	29.88	09	CLR	NC			10.00	67	56	60	68	10	36	28.88	30.02			
12	OVC	017			10.00		72	66	68	82	6	27	28.73	29.87	12	CLR	NC			10.00	74	53	62	48	13	03	28.87	30.01			
15	OVC	012			7.00		68	63	65	84	9	30	28.71	29.85	15	CLR	NC			10.00	77	51	62	40	12	32	28.86	30.00			
18	OVC	016			9.00		65	61	63	87	7	33	28.72	29.86	18	CLR	NC			10.00	73	51	60	46	6	33	28.88	30.03			
21	SCT	NC			10.00		62	59	60	90	6	33	28.74	29.88	21	CLR	NC			10.00	59	51	55	75	7	02	28.92	30.06			
24	CLR	NC			10.00		57	55	56	93	5	29	28.74	29.88	24	CLR	NC			10.00	57	53	55	87	9	03	28.92	30.07			
SUNRISE: 0509						AUG 14		SUNSET: 1907						SUNRISE: 0515						AUG 20		SUNSET: 1858									
03	CLR	NC			9.00		56	55	55	97	3	21	28.73	29.87	03	CLR	NC			7.00	55	50	52	83	3	06	28.96	30.11			
06	CLR	NC			5.00	BR	55	54	54	96	3	18	28.75	29.90	06	CLR	NC			8.00	55	54	54	96	6	03	28.96	30.11			
09	CLR	NC			10.00		68	59	63	73	7	25	28.76	29.90	09	CLR	NC			8.00	68	56	61	66	9	17	29.01	30.16			
12	FEW	NC			10.00		75	52	61	45	14	25	28.75	29.88	12	OVC	070			8.00	73	57	63	57	8	14	28.98	30.13			
15	CLR	NC			10.00		78	54	64	43	12	22	28.72	29.86	15	CLR	NC			8.00	75	59	65	58	15	15	28.93	30.09			
18	CLR	NC			4.00	HZ	73	59	64	62	9	19	28.70	29.84	18	OVC	090			10.00	71	55	62	57	15	14	28.92	30.07			
21	CLR	NC			10.00		64	59	61	84	10	17	28.72	29.86	21	FEW	NC			10.00	65	59	61	81	9	14	28.93	30.08			
24	CLR	NC			10.00		62	58	60	86	12	20	28.72	29.86	24	CLR	NC			10.00	66	61	63	84	12	15	28.91	30.05			
SUNRISE: 0510						AUG 15		SUNSET: 1905						SUNRISE: 0516						AUG 21		SUNSET: 1856									
03	CLR	NC			10.00		59	56	57	90	8	19	28.72	29.85	03	FEW	NC			7.00	65	63	64	93	10	17	28.88	30.02			
06	CLR	NC			10.00		59	57	58	93	9	18	28.74	29.88	06	OVC	005		BR	2.00	67	65	66	93	12	17	28.86	29.99			
09	CLR	NC			10.00		73	62	66	69	15	19	28.73	29.86	09	OVC	005		BR	2.50	73	70	71	90	12	17	28.85	29.98			
12	CLR	NC			9.00		81	65	70	58	16	19	28.69	29.82	12	SCT	NC		HZ	5.00	84	74	77	72	15	18	28.83	29.96			
15	SCT	NC			8.00		82	66	71	58	22	19	28.69	29.82	15	SCT	NC			7.00	86	74	77	67	21	17	28.72	29.84			
18	OVC	049			8.00		77	68	71	74	8	20	28.71	29.85	18	BKN	100			10.00	73	70	71	90	12	19	28.77	29.90			
21	OVC	045			10.00		73	68	70	84	6	25	28.76	29.89	21	VV	003		+RA	0.75	73	71	72	94	18	25	28.78	29.91			
24	CLR	NC			10.00		69	65	66	87	7	32	28.81	29.94	24	VV	006		+RA	0.75	72	70	71	94	16	26	28.82	29.95			
SUNRISE: 0511						AUG 16		SUNSET: 1904						SUNRISE: 0517						AUG 22		SUNSET: 1855									
03	CLR	NC			10.00		62	58	60	86	3	31	28.86	29.99	03	OVC	036		-RA	10.00	70	69	69	97	0	00	28.79	29.92			
06	CLR	NC			8.00		57	56	56	96	3	19	28.91	30.04	06	OVC	100		-RA	10.00	69	68	68	96	10	22	28.85	29.98			
09	CLR	NC			10.00		75	55	63	50	3	05	28.93	30.06	09	BKN	004		-RA	10.00	71	70	70	96	7	13	28.86	29.99			
12	CLR	NC			9.00		79	56	65	45	7	17	28.92	30.06	12	BKN	008			10.00	76	71	73	85	8	35	28.89	30.02			
15	CLR	NC			10.00		80	57	66	45	10	20	28.89	30.03	15	FEW	NC			10.00	80	71	74	74	5	02	28.89	30.02			
18	CLR	NC			10.00		73	65	68	76	7	17	28.86	30.00	18	CLR	NC			10.00	80	70	73	71	0	00	28.88	30.01			
21	CLR	NC			10.00		70	67	68	90	5	16	28.83	29.96	21	BKN	017			10.00	73	71	72	94	7	06	28.92	30.05			
24	BKN	010			6.00	BR	71	69	70	94	16	17	28.75	29.88	24	OVC	004		BR	5.00	71	69	70	94	7	10	28.88	30.01			
SUNRISE: 0512						AUG 17		SUNSET: 1902						SUNRISE: 0518						AUG 23		SUNSET: 1853									
03	CLR	NC			10.00		70	67	68	90	21	18	28.61	29.73	03	OVC	006		-RA	4.00	68	67	67	96	0	00	28.90	30.03			
06	SCT	NC			10.00		73	69	70	87	15	24	28.72	29.85	06	OVC	001		BR	3.00	67	67	67	100	14	11	28.75	29.88			
09	CLR	NC			10.00		74	68	70	82	16	23	28.67	29.80	09	OVC	003		BR	3.00	69	68	68	96	6	06	28.85	29.98			
12	BKN	035			10.00		77	63	68	62	14	27	28.70	29.83	12	CLR	NC			10.00	76	69	71	79	7	29	28.85	29.98			
15	BKN	034			10.00		75	59	65	58	15	27	28.76	29.89	15	BKN	050			10.00	78	70	73	76	5	07	28.80	29.93			
18	FEW	NC			10.00		70	56	62	61	12	28	28.79	29.92	18	BKN	046			10.00	77	69	72	77	5	29	28.77	29.91			
21	CLR	NC			10.00		59	54	56	83	6	29	28.85	29.98	21	SCT	NC			10.00	69	66	67	90	7	32	28.80	29.93			
24	CLR	NC			10.00		56	47	51	72	7	30	28.86	30.00	24	BKN	050		BR	6.00	68	67	67	96	6	35	28.82	29.95			
SUNRISE: 0513						AUG 18		SUNSET: 1901						SUNRISE: 0519						AUG 24		SUNSET: 1852									
03	CLR	NC			10.00		49	45	47	86	10	31	28.86	30.01	03	OVC	006		BR	6.00	69	68	68	96	8	36	28.81	29.93			
06	CLR	NC			10.00		47	44	46	90	0	00	28.87	30.02	06	OVC	009		BR	3.00	68	67	67	96	7	33	28.84	29.98			
09	CLR	NC			10.00		66	46	55	49	0	00	28.89	30.03	09	BKN	019			9.00	71	66	68	84	12	34	28.86	30.00			
12	CLR	NC			10.00		71	44	56	38	0	00	28.86	30.00	12	BKN	041			10.00	75	65	69	71	9	33	28.88	30.01			
15	CLR	NC			10.00		74	47	59	38	5	13	28.79	29.93	15	FEW	NC			10.00	79	63	69	58	12	33	28.86	29.99			
18	OVC	044			10.00		71	53	61	53	5	15	28.77	29.92	18	CLR	NC			10.00	75	65	69	71	7	33	28.87	30.00			
21	OVC	037			10.00		66	56	60	70	6	19	28.79	29.93	21	CLR	NC			9.00	67	64	65	91	0	00	28.89	30.03			
24	OVC	023			10.00		63	59	61	87	9	07	28.74	29.88	24	CLR	NC			9.00	65	63	64	93	0	00	28.89	30.03			

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

AUGUST 2002

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)		
			OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION				SEA LEVEL	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION
03	CLR	NC				66	63	64	90	5	02	28.88	30.02	03	CLR	NC			3.00	BR	63	60	61	90	0	00	29.13	30.27
06	CLR	NC			BR	62	61	61	96	0	00	28.91	30.05	06	CLR	NC			1.50	BR	63	60	61	90	6	11	29.16	30.31
09	CLR	NC				75	67	70	76	0	00	28.92	30.06	09	FEW	NC			4.00	HZ	72	63	66	73	8	14	29.16	30.30
12	FEW	NC				81	61	68	51	9	33	28.92	30.05	12	CLR	NC			8.00		79	62	68	56	8	17	29.14	30.28
15	CLR	NC				83	62	69	49	10	34	28.88	30.01	15	BKN	055			8.00		78	62	68	58	9	12	29.09	30.23
18	CLR	NC				77	65	69	66	0	00	28.87	30.01	18	CLR	NC			6.00	HZ	75	66	69	74	5	13	29.07	30.22
21	BKN	055				68	64	66	87	0	00	28.90	30.03	21	CLR	NC			6.00	HZ	69	63	65	81	8	14	29.05	30.20
24	CLR	NC				66	61	63	84	5	07	28.90	30.03	24	CLR	NC			5.00	HZ	67	62	64	84	7	14	29.04	30.18
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)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH)																	
							STATION	SEA LEVEL			SPEED	DIRECTION																
01			65	61	63	89	28.91	30.05	7.90	6	2	15																
02			64	61	62	91	28.91	30.05	7.51	7	2	11																
03			63	60	61	91	28.91	30.05	7.26	6	1	9																
04			63	60	61	92	28.91	30.05	6.98	7	1	6																
05			62	60	61	93	28.92	30.06	5.73	5	2	14																
06			62	60	61	93	28.93	30.07	5.39	6	1	14																
07			65	62	63	90	28.94	30.08	5.76	6	2	16																
08			69	63	65	83	28.94	30.09	7.37	8	3	16																
09			72	63	66	76	28.94	30.08	8.23	8	2	16																
10			74	63	67	70	28.95	30.09	8.58	8	3	16																
11			76	63	68	65	28.94	30.08	9.20	8	2	16																
12			77	63	68	62	28.93	30.07	9.29	8	2	20																
13			79	63	69	60	28.93	30.06	9.29	9	2	18																
14			79	63	69	58	28.92	30.05	9.35	9	2	20																
15			79	63	69	59	28.91	30.05	9.39	9	2	19																
16			78	63	68	61	28.90	30.04	9.26	9	1	21																
17			77	63	68	64	28.90	30.04	9.29	8	1	21																
18			75	64	68	70	28.90	30.04	9.16	7	1	17																
19			71	64	67	79	28.90	30.04	9.00	7	1	11																
20			69	63	65	83	28.91	30.05	9.10	6	3	13																
21			68	63	65	84	28.92	30.06	9.09	6	2	10																
22			67	62	64	85	28.92	30.06	8.52	6	2	11																
23			66	62	63	87	28.92	30.06	8.15	6	2	12																
24			65	61	63	87	28.92	30.06	7.99	7	2	13																

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.

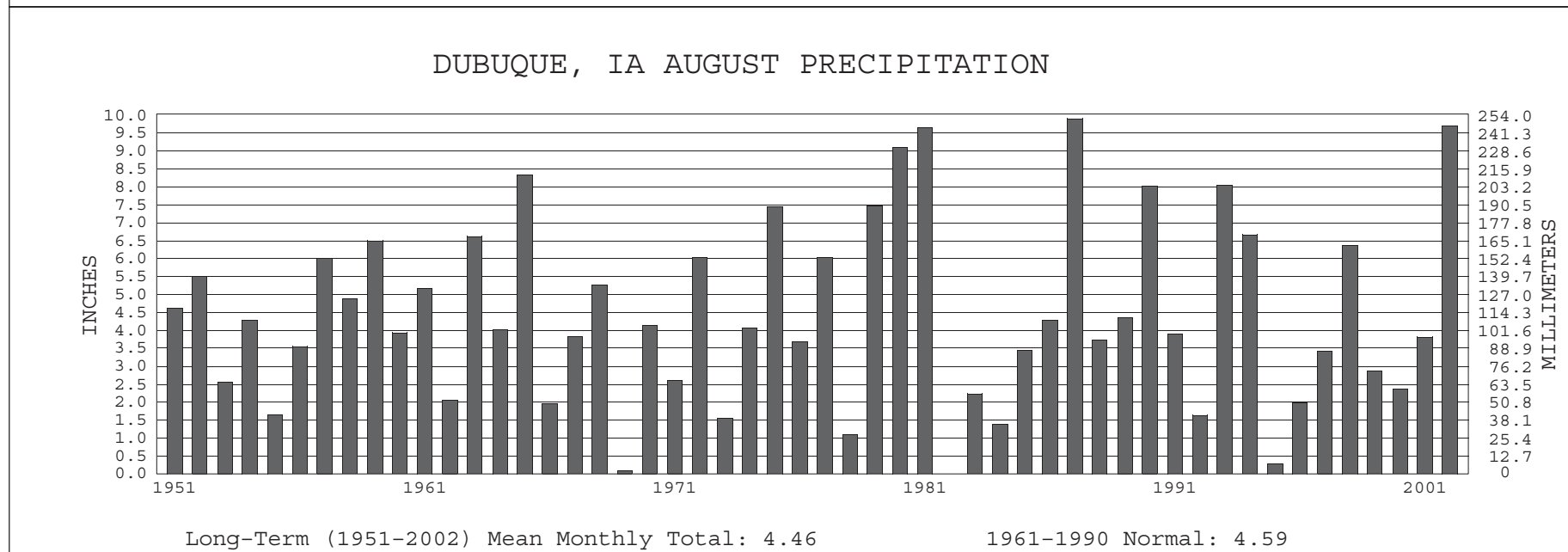
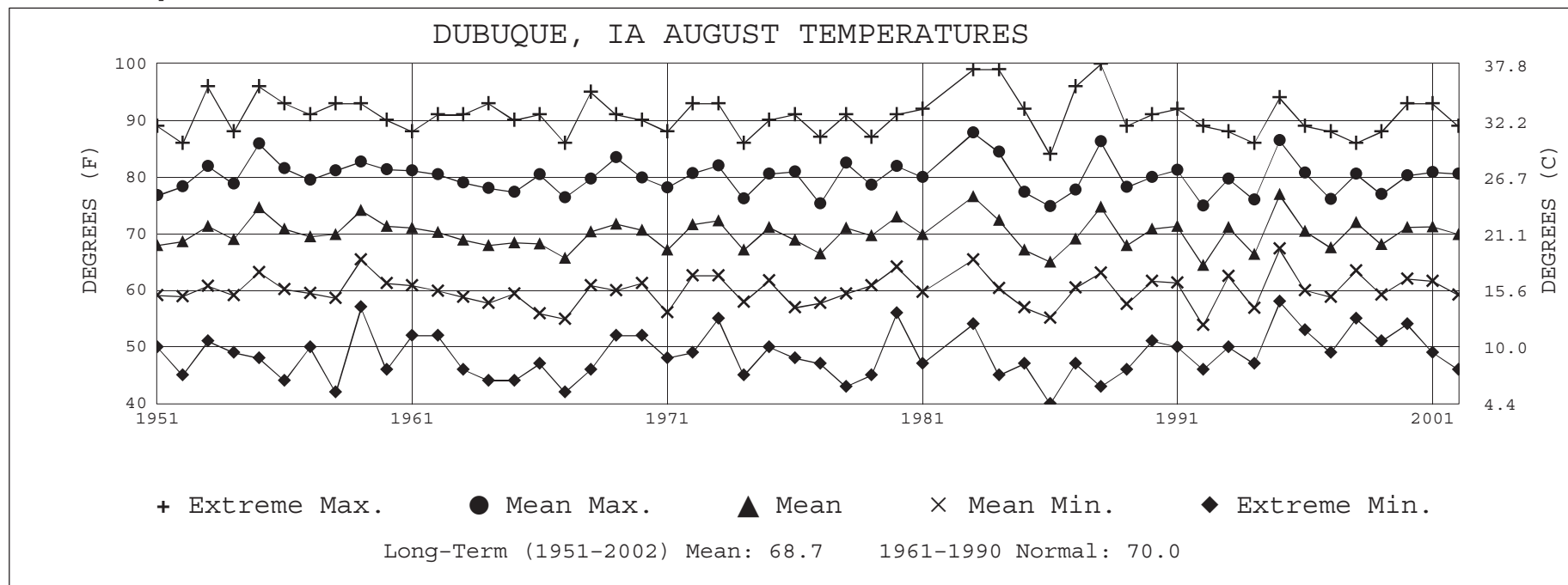
NC = No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			65	61	63	89	28.91	30.05	7.90	6	2	15
02			64	61	62	91	28.91	30.05	7.51	7	2	11
03			63	60	61	91	28.91	30.05	7.26	6	1	9
04			63	60	61	92	28.91	30.05	6.98	7	1	6
05			62	60	61	93	28.92	30.06	5.73	5	2	14
06			62	60	61	93	28.93	30.07	5.39	6	1	14
07			65	62	63	90	28.94	30.08	5.76	6	2	16
08			69	63	65	83	28.94	30.09	7.37	8	3	16
09			72	63	66	76	28.94	30.08	8.23	8	2	16
10			74	63	67	70	28.95	30.09	8.58	8	3	16
11			76	63	68	65	28.94	30.08	9.20	8	2	16
12			77	63	68	62	28.93	30.07	9.29	8	2	20
13			79	63	69	60	28.93	30.06	9.29	9	2	18
14			79	63	69	58	28.92	30.05	9.35	9	2	20
15			79	63	69	59	28.91	30.05	9.39	9	2	19
16			78	63	68	61	28.90	30.04	9.26	9	1	21
17			77	63	68	64	28.90	30.04	9.29	8	1	21
18			75	64	68	70	28.90	30.04	9.16	7	1	17
19			71	64	67	79	28.90	30.04	9.00	7	1	11
20			69	63	65	83	28.91	30.05	9.10	6	3	13
21			68	63	65	84	28.92	30.06	9.09	6	2	10
22			67	62	64	85	28.92	30.06	8.52	6	2	11
23			66	62	63	87	28.92	30.06	8.15	6	2	12
24			65	61	63	87	28.92	30.06	7.99	7	2	13





AUGUST 2002

DUBUQUE, IA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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