



JUNE 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	87	55	71	6	57	63	0	6				0.0	0.00	28.65	29.78	5.4	28	7.6	23	27	20	27	01										
02	68	57	63	-2	50	55	2	0	RA BR			0.0	0.19	28.72	29.86	7.3	09	9.9	32	09	25	09	02										
03	65	49	57*	-8	54	56	8	0	TS TSRA RA FG BR			0.0	2.92	28.68	29.83	9.2	07	12.1	38	36	30	36	03										
04	69	56	63	-3	60	61	2	0	TSRA RA BR			0.0	3.50	28.68	29.82	4.3	15	14.4	36	15	30	15	04										
05	68	51	60	-6	52	55	5	0	BR			0.0	0.00	28.86	30.01	6.1	35	7.8	18	02	15	01	05										
06	72	47*	60	-6	50	55	5	0	BR			0.0	0.00	28.91	30.06	4.2	12	6.8	17	12	13	14	06										
07	76	54	65	-1	56	60	0	0	BR HZ			0.0	0.00	28.90	30.04	12.3	17	12.7	24	16	20	19	07										
08	82	58	70	3	60	64	0	5	BR HZ			0.0	0.00	28.89	30.02	7.0	18	8.4	22	17	17	16	08										
09	85	59	72	5	59	65	0	7	HZ			0.0	0.00	28.84	29.98	6.9	17	7.3	20	16	15	18	09										
10	85	67	76	9	68	70	0	11	RA BR HZ			0.0	T	28.71	29.84	14.4	18	14.5	28	19	23	16	10										
11	78	66	72	5	67	69	0	7	RA BR			0.0	0.40	28.67	29.79	7.4	21	9.8	38*	27	31*	28	11										
12	78	66	72	4	65	68	0	7	BR			0.0	0.00	28.75	29.88	3.7	02	7.6	17	01	15	02	12										
13	71	57	64	-4	58	61	1	0	RA BR HZ			0.0	0.44	28.71	29.85	1.2	04	6.8	21	29	17	29	13										
14	67	52	60	-8	51	55	5	0				0.0	0.00	28.65	29.80	11.3	31	12.4	33	32	28	32	14										
15	77	50	64	-5	50	56	1	0				0.0	0.00	28.67	29.81	8.9	31	10.5	31	29	25	30	15										
16	76	48	62	-7	48	55	3	0				0.0	0.00	28.78	29.92	5.9	32	7.4	35	36	29	36	16										
17	76	54	65	-4	54	59	0	0	RA			0.0	T	28.77	29.91	4.6	21	5.8	13	25	10	23	17										
18	83	61	72	3	58	63	0	7				0.0	0.00	28.82	29.96	11.1	14	11.6	24	16	20	14	18										
19	76	66	71	2	63	66	0	6	TSRA RA BR HZ			0.0	0.27	28.89	30.03	15.2	16	15.4	33	17	29	17	19										
20	84	69	77	8	69	72	0	12	BR HZ			0.0	0.00	29.07	30.21	7.5	22	8.6	22	24	18	26	20										
21	87	70	79	10	70	72	0	14	BR HZ			0.0	0.00	29.12	30.26	4.0	16	6.8	21	21	15	20	21										
22	88	69	79	10	68	71	0	14	BR HZ			0.0	0.00	29.04	30.17	8.8	20	9.1	22	19	18	19	22										
23	87	65	76	6	63	68	0	11	BR HZ			0.0	0.00	28.95	30.09	8.5	20	8.7	21	20	16	21	23										
24	87	64	76	6	64	68	0	11	BR HZ			0.0	0.00	28.94	30.07	4.5	20	4.8	20	22	14	23	24										
25	88	68	78	8	69	72	0	13	BR HZ			0.0	0.00	28.87	30.00	7.1	21	7.6	17	22	15	22	25										
26	82	64	73	2	66	68	0	8	TS TSRA RA BR HZ			0.0	0.70	28.75	29.88	6.3	26	10.4	32	01	28	36	26										
27	79	61	70	-1	62	65	0	5				0.0	0.00	28.76	29.89	5.1	34	5.4	18	33	16	33	27										
28	83	59	71	0	63	66	0	6	BR			0.0	0.00	28.87	30.01	3.0	16	4.0	12	11	10	13	28										
29	86	64	75	4	67	70	0	10	BR			0.0	0.00	28.91	30.05	8.0	17	8.2	18	16	15	18	29										
30	91*	72	82*	11	72	75	0	17	BR			0.0	0.00	28.91	30.03	9.7	20	10.0	21	22	17	20	30										
79.4 59.9 69.7 ■■										< MONTHLY AVERAGES TOTALS->			0.0	8.42	28.82	29.96	3.0	18	9.1	<- MONTHLY AVERAGES													
0.8 2.0 1.4 ■■										<-----DEPARTURE FROM NORMAL----->										4.34				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 5.90 DATE :03-04				SEA LEVEL PRESSURE DATE TIME																				
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE :				MAXIMUM : 30.31 21 0755																				
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: DATE :				MINIMUM : 29.70 01 1655																				
HEATING: 32 -2 6375 -952									NUMBER OF DAYS WITH ➡				MAXIMUM TEMP ≥ 90: 1				MINIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.01 INCH : 7												
COOLING: 177 39 223 42													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 7												
													THUNDERSTORMS : 4				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH : 0												

JUNE 2002
DUBUQUE, IA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

DUBUQUE, IA

JUNE 2002

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						T	T		0.02	0.08	0.04	0.02	02	0.01	0.02										02			0.19	
03						0.45	0.02				0.03	T	03	0.01	0.01			0.07	T		T	0.01	0.47	1.44	0.41	03		2.92	
04	0.65	0.07	0.01	1.02	0.49	0.25	0.24	0.32	0.11	0.01	0.32	T	04			T	0.01								04			3.50	
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													10				T	T	T						10			T	
11				0.15	0.21	0.04	T						11												11			0.40	
12													12												12			0.00	
13	T		0.09	0.03	0.05	0.01	0.01	0.01					13	0.23				0.01							13			0.44	
14													14												14			0.00	
15													15												15			0.00	
16													16												16			0.00	
17	T	T											17												17			T	
18													18												18			0.00	
19			T						0.07	0.18	0.02		19												19			0.27	
20													20												20			0.00	
21													21												21			0.00	
22													22												22			0.00	
23													23												23			0.00	
24													24												24			0.00	
25													25												25			0.00	
26					0.28	0.15	0.06	0.01					26					0.01	0.19						26			0.70	
27													27												27			0.00	
28													28												28			0.00	
29													29												29			0.00	
30													30												30			0.00	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.41	.54	.70	1.06	1.46	1.61	1.88	2.12	2.21	2.33	2.55
Ending Date	03	03	03	03	03	03	03	03	03	03	04	04
Ending Time (Hour/Min)	2140	2144	2256	2251	2256	2258	2309	2256	2313	2333	0002	0109

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
JUNE 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							10.00	10.00	
02							4.00	10.00	
03							.50	10.00	
04							.75	10.00	
05							6.00	10.00	
06							5.00	10.00	
07							3.00	10.00	
08							5.00	10.00	
09							6.00	10.00	
10							5.00	10.00	
11							2.50	10.00	
12							2.00	10.00	
13							.75	10.00	
14							10.00	10.00	
15							9.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							2.50	10.00	
20							4.00	9.00	
21							1.25	10.00	
22							4.00	9.00	
23							4.00	7.00	
24							1.75	8.00	
25							3.00	10.00	
26							2.50	10.00	
27							8.00	10.00	
28							6.00	10.00	
29							4.00	10.00	
30							3.00	10.00	
MONTHLY AVGS							4.99	9.77	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p> Percent Possible:</p>									
<p align="center">NUMBER OF DAYS WITH:</p> <p align="center">SKY CONDITION</p> <p align="center">CLR PTLY CLDY CLOUDY MISSING</p> <p align="center">30</p> <p align="center">MINIMUM VISIBILITY (MILES)</p> <p align="center"><=0.25 <=3.0 >=7.0</p> <p align="center">0 11 7</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

JUNE 2002

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: 0429	JUN 01			SUNSET: 1932										SUNRISE: 0426	JUN 07									
03	CLR	NC			10.00		57	53	55	87	6	20	28.68	29.82	03	CLR	NC			5.00	BR	55	53	54	93	9	17	28.91	30.05
06	CLR	NC			10.00		62	57	59	84	0	00	28.69	29.82	06	CLR	NC			3.00	BR	57	54	55	90	12	17	28.92	30.07
09	CLR	NC			10.00		77	64	69	64	7	24	28.67	29.80	09	CLR	NC			8.00		65	56	60	73	15	18	28.96	30.11
12	CLR	NC			10.00		83	61	69	48	9	23	28.64	29.78	12	CLR	NC			10.00		72	56	62	57	15	17	28.92	30.06
15	CLR	NC			10.00		83	57	67	41	9	27	28.61	29.74	15	CLR	NC			10.00		76	56	64	50	16	16	28.87	30.01
18	CLR	NC			10.00		80	58	66	47	12	27	28.60	29.72	18	CLR	NC			10.00		74	55	63	52	13	18	28.84	29.98
21	CLR	NC			10.00		75	45	58	34	16	33	28.66	29.78	21	FEW	NC			10.00		67	57	61	71	12	15	28.88	30.02
24	CLR	NC			10.00		68	49	57	51	8	02	28.67	29.79	24	CLR	NC			9.00		65	55	59	70	15	16	28.83	29.96
					SUNRISE: 0428	JUN 02			SUNSET: 1933										SUNRISE: 0426	JUN 08									
03	CLR	NC			10.00		63	44	53	50	6	09	28.69	29.83	03	CLR	NC			7.00		59	55	57	87	10	19	28.89	30.02
06	BKN	100			10.00		61	45	53	56	12	16	28.76	29.89	06	CLR	NC			5.00	HZ	62	57	59	84	9	19	28.89	30.03
09	BKN	027			6.00	-RA	60	52	56	75	6	21	28.78	29.92	09	CLR	NC			8.00		72	60	65	66	13	20	28.91	30.04
12	BKN	040			8.00	-RA	58	54	56	87	9	14	28.72	29.86	12	CLR	NC			10.00		78	63	68	60	3	21	28.90	30.03
15	CLR	NC			10.00		63	55	58	76	9	12	28.71	29.85	15	CLR	NC			10.00		81	64	70	57	7	18	28.87	30.01
18	BKN	050			10.00		64	55	59	73	14	06	28.69	29.84	18	CLR	NC			10.00		79	62	68	56	8	14	28.87	30.00
21	FEW	NC			10.00		59	49	54	69	22	09	28.66	29.80	21	CLR	NC			10.00		70	60	64	71	7	11	28.90	30.03
24	OVC	050			10.00		57	42	49	58	8	08	28.68	29.83	24	CLR	NC			9.00		65	58	61	78	3	20	28.91	30.05
					SUNRISE: 0428	JUN 03			SUNSET: 1934										SUNRISE: 0426	JUN 09									
03	BKN	037			10.00		55	44	49	67	9	06	28.65	29.79	03	CLR	NC			7.00		62	56	59	81	3	20	28.89	30.02
06	OVC	010			7.00	-RA	50	48	49	93	21	01	28.75	29.91	06	CLR	NC			6.00	HZ	65	57	60	76	3	15	28.90	30.04
09	BKN	046			10.00		57	52	54	83	21	13	28.66	29.81	09	CLR	NC			8.00		75	59	65	58	12	17	28.90	30.03
12	OVC	011			5.00	-RA BR	59	57	58	93	8	02	28.69	29.83	12	CLR	NC			10.00		81	58	67	46	12	16	28.89	30.03
15	OVC	005			3.00	BR	64	61	62	90	9	05	28.66	29.80	15	CLR	NC			10.00		85	60	69	43	10	16	28.82	29.95
18	OVC	003			1.75	BR	60	59	59	96	14	03	28.69	29.84	18	CLR	NC			10.00		84	59	68	43	7	16	28.77	29.90
21	OVC	003			2.50	-RA BR	60	58	59	93	13	06	28.66	29.81	21	CLR	NC			10.00		70	60	64	71	0	00	28.78	29.91
24	OVC	003			5.00	-RA BR	61	60	60	97	7	08	28.69	29.83	24	FEW	NC			10.00		72	61	65	69	9	16	28.79	29.91
					SUNRISE: 0427	JUN 04			SUNSET: 1935										SUNRISE: 0426	JUN 10									
03	OVC	036			10.00		65	63	64	93	24	34	28.68	29.83	03	CLR	NC			7.00		68	63	65	84	7	20	28.76	29.88
06	OVC	065			4.00	TSRA BR	62	61	61	96	18	12	28.64	29.79	06	CLR	NC			5.00	HZ	72	67	69	84	12	17	28.75	29.87
09	OVC	033			3.00	TSRA BR	63	61	62	93	24	14	28.63	29.78	09	BKN	017			8.00		76	69	71	79	20	18	28.75	29.88
12	BKN	008			10.00		65	63	64	93	18	15	28.65	29.79	12	BKN	027			10.00		82	70	74	67	15	18	28.72	29.85
15	OVC	014			2.00	-RA BR	66	64	65	93	10	18	28.64	29.78	15	BKN	060			10.00		82	69	73	65	20	18	28.67	29.79
18	OVC	007			10.00		62	60	61	93	13	28	28.69	29.83	18	CLR	NC			10.00		75	68	70	79	14	19	28.66	29.79
21	OVC	007			10.00		58	55	56	90	14	30	28.76	29.90	21	SCT	NC			10.00		74	68	70	82	17	18	28.67	29.80
24	OVC	010			10.00		56	53	54	90	10	32	28.78	29.93	24	OVC	013			10.00		73	70	71	90	13	19	28.67	29.79
					SUNRISE: 0427	JUN 05			SUNSET: 1935										SUNRISE: 0426	JUN 11									
03	OVC	008			10.00		54	52	53	93	8	32	28.79	29.93	03	OVC	014			7.00		73	70	71	90	18	19	28.62	29.75
06	OVC	008			10.00		54	51	52	90	13	32	28.83	29.98	06	BKN	022			10.00	-RA	67	65	66	93	8	06	28.65	29.78
09	OVC	006			6.00	BR	54	51	52	90	13	33	28.86	30.01	09	BKN	013			10.00		72	67	69	84	14	20	28.66	29.80
12	SCT	NC			10.00		64	54	58	70	12	02	28.87	30.01	12	SCT	NC			10.00		73	67	69	81	16	24	28.68	29.81
15	CLR	NC			10.00		66	51	58	59	10	01	28.86	30.01	15	SCT	NC			10.00		77	67	70	71	8	20	28.66	29.78
18	CLR	NC			10.00		64	51	57	63	7	05	28.88	30.03	18	CLR	NC			10.00		76	67	70	74	10	21	28.65	29.78
21	CLR	NC			10.00		57	51	54	81	0	00	28.91	30.06	21	FEW	NC			8.00		70	67	68	90	5	14	28.68	29.82
24	CLR	NC			10.00		53	50	51	89	0	00	28.91	30.06	24	BKN	110			8.00		68	67	67	96	6	20	28.69	29.82
					SUNRISE: 0427	JUN 06			SUNSET: 1936										SUNRISE: 0426	JUN 12									
03	CLR	NC			10.00		51	44	48	77	0	00	28.90	30.05	03	OVC	002			4.00	BR	69	68	68	96	8	23	28.69	29.82
06	CLR	NC			7.00		53	50	51	89	7	03	28.92	30.07	06	OVC	004			2.50	BR	70	69	69	97	6	26	28.73	29.87
09	CLR	NC			10.00		65	49	56	56	6	08	28.93	30.08	09	OVC	014			10.00		73	68	70	84				

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

JUNE 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 <small>Okta</small>		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 <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0425						JUN 13						SUNSET: 1940						SUNRISE: 0426						JUN 19						SUNSET: 1942					
03	OVC	035			3.00	-RA BR	64	62	63	93	8	11	28.75	29.88	03	CLR	NC			9.00	69	59	63	70	17	16	28.82	29.94							
06	OVC	042			2.00	-RA BR	61	59	60	93	9	06	28.73	29.87	06	CLR	NC			8.00	70	61	64	73	15	18	28.86	29.99							
09	BKN	050			5.00	BR	63	60	61	90	7	05	28.73	29.87	09	OVC	027			2.50	66	64	65	93	5	18	28.99	30.14							
12	OVC	035			5.00	HZ	66	60	62	81	9	14	28.73	29.87	12	CLR	NC			6.00	69	64	66	84	22	15	28.85	29.98							
15	FEW	NC			10.00		69	59	63	70	0	00	28.68	29.82	15	CLR	NC			8.00	76	65	69	69	17	16	28.89	30.02							
18	BKN	085			10.00		69	61	64	76	6	22	28.65	29.79	18	CLR	NC			7.00	75	65	69	71	20	15	28.89	30.03							
21	SCT	NC			10.00		63	50	56	63	10	30	28.68	29.83	21	CLR	NC			8.00	72	64	67	76	14	16	28.92	30.06							
24	CLR	NC			10.00		57	50	53	78	8	29	28.67	29.81	24	FEW	NC			6.00	70	64	66	82	14	18	28.97	30.11							
SUNRISE: 0425						JUN 14						SUNSET: 1941						SUNRISE: 0426						JUN 20						SUNSET: 1943					
03	CLR	NC			10.00		54	49	51	83	9	26	28.63	29.77	03	CLR	NC			7.00	70	64	66	82	12	21	29.00	30.14							
06	OVC	085			10.00		56	51	53	84	10	29	28.63	29.78	06	CLR	NC			5.00	72	65	67	79	12	21	29.01	30.15							
09	OVC	024			10.00		59	53	56	81	14	29	28.64	29.78	09	CLR	NC			6.00	79	70	73	74	13	25	29.07	30.20							
12	OVC	050			10.00		62	50	55	65	21	32	28.63	29.78	12	FEW	NC			8.00	83	70	74	65	13	27	29.09	30.23							
15	SCT	NC			10.00		65	52	58	63	21	32	28.65	29.79	15	FEW	NC			9.00	83	70	74	65	9	22	29.09	30.23							
18	BKN	070			10.00		65	51	57	61	14	33	28.66	29.81	18	CLR	NC			7.00	83	72	75	70	5	22	29.09	30.22							
21	CLR	NC			10.00		58	52	55	81	9	32	28.69	29.84	21	CLR	NC			5.00	76	72	73	88	5	10	29.11	30.25							
24	CLR	NC			10.00		52	50	51	93	5	22	28.67	29.82	24	CLR	NC			4.00	73	70	71	90	3	11	29.12	30.26							
SUNRISE: 0425						JUN 15						SUNSET: 1941						SUNRISE: 0426						JUN 21						SUNSET: 1943					
03	CLR	NC			9.00		53	51	52	93	6	21	28.65	29.80	03	CLR	NC			3.00	71	69	70	94	0	00	29.13	30.27							
06	CLR	NC			10.00		55	52	53	90	7	25	28.65	29.79	06	OVC	055			3.00	70	69	69	97	9	03	29.16	30.29							
09	CLR	NC			10.00		69	54	60	59	10	30	28.66	29.80	09	CLR	NC			6.00	76	70	72	82	6	08	29.17	30.31							
12	FEW	NC			10.00		75	53	62	46	16	28	28.65	29.79	12	SCT	NC			7.00	82	72	75	72	8	11	29.13	30.27							
15	SCT	NC			10.00		76	47	60	36	16	32	28.64	29.78	15	CLR	NC			10.00	86	70	75	59	12	20	29.09	30.23							
18	CLR	NC			10.00		71	50	59	47	12	34	28.64	29.78	18	CLR	NC			10.00	83	72	75	70	5	20	29.09	30.23							
21	CLR	NC			10.00		60	47	53	62	10	34	28.69	29.83	21	CLR	NC			10.00	78	69	72	74	9	17	29.07	30.21							
24	SCT	NC			10.00		56	47	51	72	6	35	28.75	29.89	24	CLR	NC			8.00	73	68	70	84	5	20	29.09	30.23							
SUNRISE: 0425						JUN 16						SUNSET: 1941						SUNRISE: 0426						JUN 22						SUNSET: 1943					
03	CLR	NC			10.00		48	45	47	89	0	00	28.74	29.88	03	CLR	NC			5.00	70	67	68	90	7	19	29.09	30.23							
06	CLR	NC			10.00		54	49	51	83	0	00	28.78	29.93	06	CLR	NC			4.00	71	68	69	90	7	19	29.09	30.23							
09	CLR	NC			10.00		70	47	57	44	8	34	28.80	29.94	09	CLR	NC			6.00	82	69	73	65	6	21	29.11	30.24							
12	FEW	NC			10.00		74	47	59	38	12	32	28.79	29.93	12	SCT	NC			8.00	85	70	75	61	9	21	29.07	30.20							
15	FEW	NC			10.00		74	46	58	37	7	30	28.77	29.92	15	FEW	NC			9.00	87	67	73	51	16	21	28.99	30.12							
18	CLR	NC			10.00		75	45	58	34	7	28	28.75	29.88	18	CLR	NC			8.00	84	68	73	59	9	19	28.97	30.10							
21	OVC	100			10.00		61	51	56	70	8	03	28.80	29.94	21	CLR	NC			8.00	76	67	70	74	9	17	28.97	30.10							
24	BKN	095			10.00		58	53	55	84	6	24	28.79	29.93	24	CLR	NC			7.00	71	64	67	79	9	19	28.95	30.09							
SUNRISE: 0425						JUN 17						SUNSET: 1942						SUNRISE: 0427						JUN 23						SUNSET: 1943					
03	BKN	100			10.00		57	51	54	81	5	18	28.76	29.90	03	CLR	NC			6.00	67	62	64	84	7	19	28.95	30.09							
06	CLR	NC			10.00		59	52	55	78	3	18	28.78	29.91	06	CLR	NC			4.00	70	64	66	82	7	20	28.96	30.10							
09	CLR	NC			10.00		68	52	59	57	7	27	28.79	29.93	09	CLR	NC			5.00	81	67	72	62	14	20	28.97	30.11							
12	CLR	NC			10.00		72	55	62	55	7	24	28.77	29.91	12	CLR	NC			6.00	86	65	72	50	13	20	28.98	30.11							
15	CLR	NC			10.00		74	55	63	52	9	22	28.75	29.89	15	CLR	NC			6.00	87	64	72	46	13	22	28.92	30.06							
18	FEW	NC			10.00		73	58	64	59	7	20	28.75	29.89	18	CLR	NC			6.00	84	63	70	49	9	20	28.92	30.05							
21	FEW	NC			10.00		66	56	60	70	6	19	28.78	29.92	21	CLR	NC			6.00	73	61	66	66	0	00	28.95	30.08							
24	BKN	100			10.00		63	55	58	76	5	18	28.79	29.93	24	CLR	NC			5.00	68	61	64	78	5	18	28.94	30.08							
SUNRISE: 0426						JUN 18						SUNSET: 1942						SUNRISE: 0427						JUN 24						SUNSET: 1943					
03	OVC	110			10.00		65	54	59	68	7	12	28.81	29.95	03	CLR	NC			3.00	66	62	64	87	3	18	28.93	30.07							
06	CLR	NC			10.00		63	55	58	76	10	13	28.84	29.98	06	CLR	NC			2.00	68	64	66	87	5	18	28.95	30.08							
09	FEW	NC			10.00		69	58	62	68	13	14	28.85	29.99	09	CLR	NC			5.00	79	66	70	65	9	20	28.97	30.11							
12	CLR	NC			10.00		78	61	67	56	15	12	28.82	29.96	12	CLR	NC			8.00	85	60	69	43	0	00	28.98	30.12							
15	BKN	055			10.00		81	59	67	47	18	15	28.80	29.93	15	CLR	NC			7.00	86	64	71	48	6	16	28.92	30.06							
18	CLR	NC			10.00		78	59	66	52	13	15	28.80	29.93	18	CLR	NC			7.00	84	65	71	53	9	20	28.88	30.01							
21	CLR	NC			10.00		72	59	64	64	12	15	28.83	29.96	21	CLR	NC			6.00	75	67	70	76	0	00	28.93	30.06							
24	CLR	NC			10.00		71	58	63	63	13	16	28.84	29.97	24	CLR	NC			5.00	70	66	67	87	0	00	28.92	30.04							

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

JUNE 2002

DBQ

WBAN # 94908

HOUR (LST)	SKY COVER		CEILING 100'S OFF	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
03	FEW	NC				4.00	BR	69	65	66	87	0	00	28.92	30.05
06	FEW	NC				3.00	BR	72	69	70	91	5	20	28.91	30.03
09	CLR	NC				7.00		82	71	74	69	9	21	28.91	30.04
12	CLR	NC				10.00		87	70	75	57	13	21	28.89	30.01
15	FEW	NC				10.00		88	69	75	54	7	26	28.85	29.97
18	CLR	NC				10.00		86	71	76	61	7	20	28.81	29.93
21	CLR	NC				10.00		77	70	72	79	8	19	28.82	29.94
24	CLR	NC				10.00		73	69	70	87	12	20	28.81	29.93
SUNRISE: 0427 JUN 25 SUNSET: 1944															
03	FEW	NC				9.00		70	67	68	90	7	20	28.78	29.90
06	OVC	055				10.00	-TSRA	65	61	63	87	3	23	28.87	29.99
09	CLR	NC				10.00		67	61	63	81	8	19	28.77	29.90
12	CLR	NC				10.00		77	66	70	69	16	22	28.75	29.88
15	FEW	NC				10.00		82	71	74	69	13	25	28.70	29.82
18	BKN	075				6.00	HZ	73	68	70	84	6	26	28.69	29.82
21	CLR	NC				9.00		70	68	69	93	7	33	28.73	29.86
24	CLR	NC				10.00		67	63	64	87	6	34	28.73	29.87
SUNRISE: 0428 JUN 26 SUNSET: 1944															
03	CLR	NC				10.00		66	61	63	84	0	00	28.73	29.86
06	CLR	NC				10.00		68	61	64	78	8	34	28.74	29.88
09	CLR	NC				10.00		73	64	67	74	6	01	28.76	29.89
12	CLR	NC				10.00		76	62	67	62	9	31	28.78	29.91
15	CLR	NC				10.00		78	62	68	58	12	34	28.76	29.89
18	CLR	NC				10.00		75	62	67	64	7	32	28.75	29.88
21	CLR	NC				10.00		67	63	64	87	0	00	28.79	29.93
24	CLR	NC				8.00		63	62	62	97	0	00	28.81	29.94
SUNRISE: 0428 JUN 27 SUNSET: 1944															
03	CLR	NC				10.00		61	59	60	93	0	00	28.81	29.94
06	CLR	NC				7.00		65	62	63	90	0	00	28.86	30.00
09	CLR	NC				10.00		77	64	69	64	3	24	28.89	30.02
12	CLR	NC				10.00		80	63	69	56	3	18	28.89	30.02
15	BKN	041				9.00		81	65	70	58	6	19	28.88	30.01
18	CLR	NC				10.00		78	65	70	64	6	13	28.89	30.02
21	CLR	NC				10.00		70	63	66	79	6	14	28.91	30.03
24	CLR	NC				9.00		67	63	64	87	6	16	28.91	30.04
SUNRISE: 0428 JUN 28 SUNSET: 1944															
03	CLR	NC				10.00		66	61	63	84	5	19	28.92	30.06
06	CLR	NC				5.00	BR	66	63	64	90	3	17	28.95	30.09
09	CLR	NC				10.00		76	66	69	72	7	17	28.95	30.09
12	CLR	NC				10.00		83	68	73	61	12	17	28.92	30.06
15	SCT	NC				10.00		86	69	74	57	14	16	28.89	30.02
18	CLR	NC				10.00		84	71	75	65	8	17	28.89	30.01
21	CLR	NC				10.00		76	70	72	82	8	16	28.90	30.03
24	CLR	NC				8.00		74	69	71	85	9	19	28.90	30.03
SUNRISE: 0429 JUN 29 SUNSET: 1944															
03	CLR	NC				6.00	BR	72	69	70	91	7	19	28.89	30.01
06	CLR	NC				4.00	BR	74	71	72	91	8	19	28.92	30.04
09	CLR	NC				8.00		85	74	77	70	8	22	28.93	30.06
12	FEW	NC				10.00		90	73	78	58	15	22	28.92	30.05
15	FEW	NC				10.00		89	73	78	59	15	19	28.90	30.03
18	CLR	NC				10.00		86	72	76	63	12	20	28.89	30.02
21	CLR	NC				10.00		78	72	74	82	10	18	28.90	30.02
24	CLR	NC				9.00		74	71	72	91	8	18	28.92	30.04
SUNRISE: 0429 JUN 30 SUNSET: 1944															
03	CLR	NC				6.00	BR	72	69	70	91	7	19	28.89	30.01
06	CLR	NC				4.00	BR	74	71	72	91	8	19	28.92	30.04
09	CLR	NC				8.00		85	74	77	70	8	22	28.93	30.06
12	FEW	NC				10.00		90	73	78	58	15	22	28.92	30.05
15	FEW	NC				10.00		89	73	78	59	15	19	28.90	30.03
18	CLR	NC				10.00		86	72	76	63	12	20	28.89	30.02
21	CLR	NC				10.00		78	72	74	82	10	18	28.90	30.02
24	CLR	NC				9.00		74	71	72	91	8	18	28.92	30.04

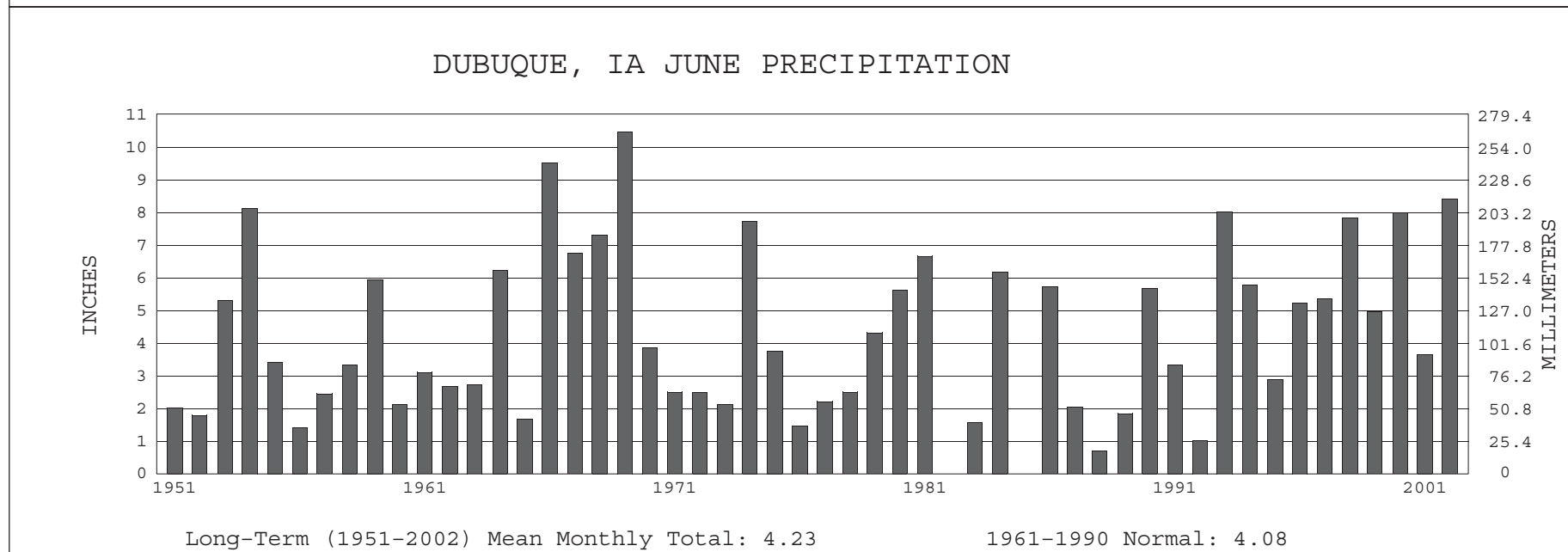
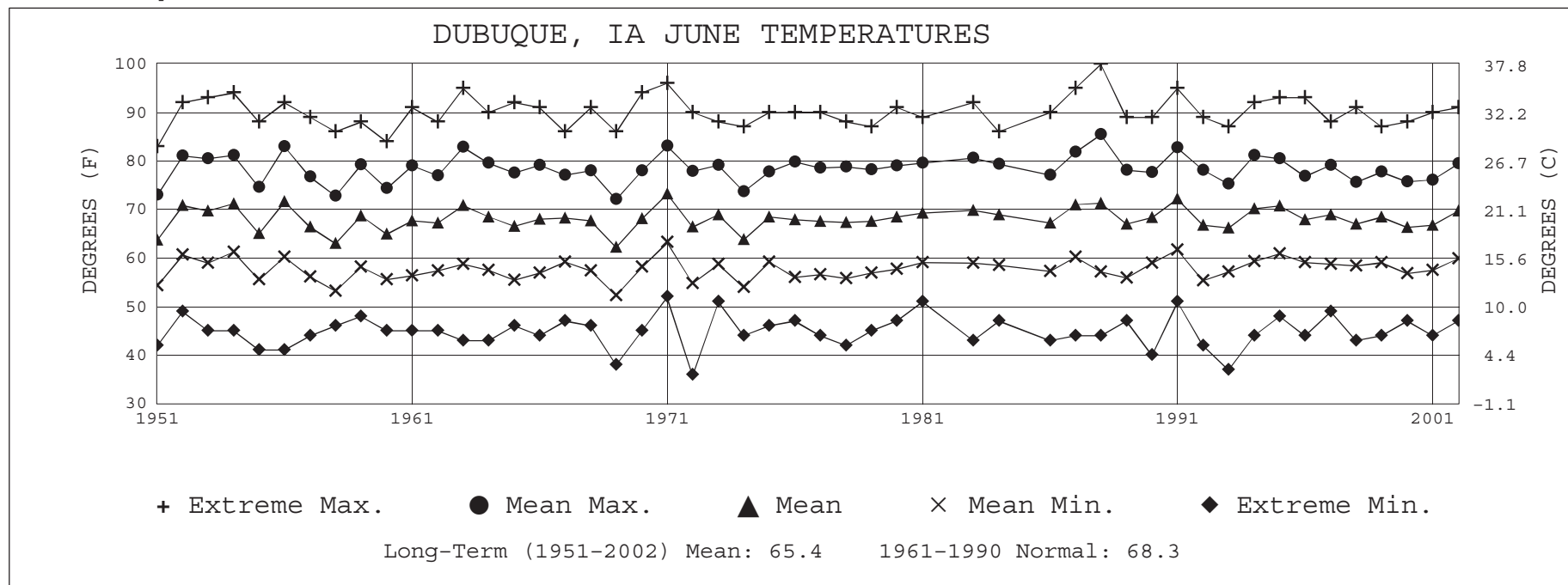
HOUR (LST)	SKY COVER	CEILING 100'S OFF	SATELLITE	OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
								DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: JUN 31 SUNSET:															

SUMMARY BY HOUR

HOUR (LST)	CEILOMETER	EFF CLD AMT	AVERAGES								RESULTANT	
			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	58	61	81	28.82	29.95	8.16	7	3	18
02			64	58	60	83	28.81	29.95	7.97	7	3	18
03			63	58	60	85	28.82	29.95	7.70	7	3	19
04			62	58	60	86	28.82	29.96	7.15	7	3	17
05			62	58	60	86	28.83	29.97	6.25	8	3	18
06			64	59	61	86	28.84	29.98	6.55	8	2	17
07			66	60	63	82	28.84	29.98	7.13	9	3	19
08			69	61	64	76	28.84	29.98	7.97	10	5	18
09			71	61	65	72	28.85	29.99	7.92	10	5	20
10			73	62	66	69	28.85	29.99	8.50	10	5	20
11			74	61	66	66	28.84	29.98	8.80	10	4	21
12			76	62	67	64	28.83	29.97	8.97	11	4	20
13			77	62	67	62	28.83	29.96	8.93	10	4	20
14			78	62	67	59	28.82	29.95	9.47	11	4	21
15			78	61	67	59	28.81	29.94	9.10	11	5	20
16			78	62	67	60	28.80	29.94	9.13	11	4	21
17			77	61	67	62	28.79	29.93	9.03	12	4	20
18			76	62	67	63	28.80	29.93	9.09	10	3	19
19			73	62	66	68	28.81	29.94	8.96	8	1	16
20			70	61	64	73	28.81	29.95	8.92	7	3	15
21			69	60	64	76	28.82	29.96	9.08	8	2	14
22			67	60	63	78	28.83	29.97	8.93	7	2	17
23			66	59	62	79	28.83	29.97	8.62	7	3	18
24			65	59	62	82	28.83	29.96	8.63	7	4	18

SUMMARY BY HOUR

HOUR (LST)	CEILOMETER	EFF CLD AMT	AVERAGES								RESULTANT WIND (MPH)	
			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			65	58	61	81	28.82	29.95	8.16	7	3	18
02			64	58	60	83	28.81	29.95	7.97	7	3	18
03			63	58	60	85	28.82	29.95	7.70	7	3	19
04			62	58	60	86	28.82	29.96	7.15	7	3	17
05			62	58	60	86	28.83	29.97	6.25	8	3	18
06			64	59	61	86	28.84	29.98	6.55	8	2	17
07			66	60	63	82	28.84	29.98	7.13	9	3	19
08			69	61	64	76	28.84	29.98	7.97	10	5	18
09			71	61	65	72	28.85	29.99	7.92	10	5	20
10			73	62	66	69	28.85	29.99	8.50	10	5	20
11			74	61	66	66	28.84	29.98	8.80	10	4	21
12			76	62	67	64	28.83	29.97	8.97	11	4	20
13			77	62	67	62	28.83	29.96	8.93	10	4	20
14			78	62	67	59	28.82	29.95	9.47	11	4	21
15			78	61	67	59	28.81	29.94	9.10	11	5	20
16			78	62	67	60	28.80	29.94	9.13	11	4	21
17			77	61	67	62	28.79	29.93	9.03	12	4	20
18			76	62	67	63	28.80	29.93	9.09	10	3	19
19			73	62	66	68	28.81	29.94	8.96	8	1	16
20			70	61	64	73	28.81	29.95	8.92	7	3	15
21			69	60	64	76	28.82	29.96	9.08	8	2	14
22			67	60	63	78	28.83	29.97	8.93	7	2	17
23			66	59	62	79	28.83	29.97	8.62	7	3	18
24			65	59	62	82	28.83	29.96	8.63	7	4	18





JUNE 2002
DUBUQUE, IA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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