



SEPTEMBER 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	84	62	73	6	65	68	0	8	BR HZ			0.0	0.00	28.93	30.07	8.5	18	8.7	18	18	15	19	01					
02	84	64	74	7	67	70	0	9	TSRA RA BR HZ			0.0	0.89	28.70	29.83	8.4	19	14.5	35*	19	26	19	02					
03	78	53	66	0	55	60	0	1				0.0	0.00	28.91	30.05	3.7	29	5.6	18	32	16	33	03					
04	83	55	69	4	56	61	0	4				0.0	0.00	29.05	30.20	1.0	06	1.7	8	05	6	12	04					
05	79	56	68	3	58	62	0	3	HZ			0.0	0.00	29.01	30.15	7.0	14	7.3	18	14	14	15	05					
06	82	58	70	5	60	64	0	5	BR			0.0	0.00	28.92	30.06	6.0	16	7.7	20	16	15	18	06					
07	86	62	74	9	62	66	0	9	BR HZ			0.0	0.00	28.97	30.11	6.4	17	7.1	14	19	12	21	07					
08	88	61	75	11	67	70	0	10	BR HZ			0.0	0.00	29.01	30.15	6.7	18	6.9	16	18	14	19	08					
09	88*	65	77*	13	67	70	0	12	BR HZ			0.0	0.00	28.97	30.10	6.1	20	6.2	16	19	14	19	09					
10	77	55	66	2	62	63	0	1	RA BR HZ			0.0	0.07	28.89	30.02	5.2	32	8.5	25	34	20	33	10					
11	74	48	61	-2	52	56	4	0				0.0	0.00	28.98	30.14	2.5	01	3.1	13	06	10	06	11					
12	74	49	62	-1	51	56	3	0				0.0	0.00	28.94	30.09	3.2	21	3.6	14	21	13	20	12					
13	76	51	64	1	52	57	1	0				0.0	0.00	28.85	29.99	4.3	17	5.4	17	20	14	20	13					
14	70	59	65	3	58	60	0	0	RA BR			0.0	0.02	28.78	29.92	2.1	25	7.1	17	01	14	01	14					
15	69	48	59	-3	51	55	6	0	BR			0.0	0.00	28.98	30.14	6.9	03	7.5	21	04	16	03	15					
16	76	45	61	-1	50	55	4	0	FG+ BCFG BR			0.0	0.00	28.94	30.10	4.0	20	4.3	14	20	12	20	16					
17	76	49	63	2	56	59	2	0	BR HZ			0.0	0.00	28.82	29.97	5.9	15	6.5	20	14	15	14	17					
18	74	62	68	7	64	66	0	3	TSRA RA BR HZ			0.0	0.21	28.58	29.71	11.2	15	11.3	25	15	21	16	18					
19	77	65	71	10	67	68	0	6	RA FG BR			0.0	1.93	28.48	29.60	7.8	20	9.5	32	27	26	28	19					
20	69	53	61	1	61	62	4	0	RA BR			0.0	0.27	28.47	29.60	8.1	21	10.3	25	18	20	19	20					
21	67	49	58	-2	46	51	7	0				0.0	0.00	28.81	29.96	6.2	34	8.0	25	32	20	34	21					
22	62	41	52	-8	41	47	13	0				0.0	0.00	28.98	30.15	8.0	29	8.3	32	27	24	28	22					
23	68	37	53	-6	40	45	12	0				0.0	0.00	29.00	30.17	6.9	25	11.0	31	27	28*	22	23					
24	61	33*	47*	-12	37	43	18	0				0.0	0.00	29.14	30.31	2.4	17	4.2	14	16	12	16	24					
25	73	44	59	0	43	51	6	0	RA			0.0	T	29.01	30.17	8.4	16	8.7	21	16	17	16	25					
26	75	48	62	4	47	54	3	0	BR			0.0	0.00	28.77	29.92	1.6	05	5.5	17	03	16	02	26					
27	61	45	53	-5	51	52	12	0	RA BR HZ			0.0	T	28.76	29.91	9.0	03	9.2	22	01	17	03	27					
28	73	44	59	1	52	55	6	0	RA BR HZ			0.0	0.08	28.92	30.08	5.3	12	7.3	21	03	18	35	28					
29	84	60	72	15	60	64	0	7	RA BR HZ			0.0	T	28.81	29.95	9.5	17	11.3	25	19	20	19	29					
30	83	66	75	18	62	66	0	10				0.0	0.00	28.71	29.83	15.4	19	15.5	31	19	26	19	30					
75.7 52.9 64.3 ■■ 55.3 59.2 3.4 2.9 < MONTHLY AVERAGES TOTALS->												0.0	3.47	28.87	30.01	2.4	18	7.7	<- MONTHLY AVERAGES									
3.8 1.2 2.5 ■■ <-----DEPARTURE FROM NORMAL----->													-.09	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.12 DATE: 18-19				GREATEST 24-HR SNOWFALL: 0.0 DATE: DATE:				SEA LEVEL PRESSURE DATE TIME				MAXIMUM MINIMUM							
MONTHLY TOTAL DEPARTURE									SEASON TO DATE TOTAL DEPARTURE				GREATEST SNOW DEPTH:				MAXIMUM MINIMUM				: 30.38 24 0955				: 29.51 20 0355			
HEATING: 101 -57 107 -80									NUMBER OF DAYS WITH ➔				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 7							
COOLING: 88 27 763 113													MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH : 4							
													THUNDERSTORMS: 2				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH : 0							

SEPTEMBER 2002
DUBUQUE, IA

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

DUBUQUE, IA

SEPTEMBER 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	0.01	0.06	0.15	0.22	T	0.17	0.27	0.01				02												02			0.89	
03													03												03			0.00	
04													04												04			0.00	
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												0.06	10	T	0.01	T									10			0.07	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14													14				0.02								14			0.02	
15													15												15			0.00	
16													16												16			0.00	
17													17												17			0.00	
18										0.02	T		18	0.01	0.11	0.01									18			0.21	
19	0.14	1.44	0.27	0.01	T		0.01	T			0.06	T	19						T	T	T			0.01	0.05	19			1.93
20		0.04	0.01	0.01	0.02	0.07	0.08	T	0.03				20			0.01	T							T	20			0.27	
21													21												21			0.00	
22													22												22			0.00	
23													23												23			0.00	
24													24												24			0.00	
25					T	T							25												25			T	
26													26												26			0.00	
27											T	T	27												27			T	
28													28					T	T	T		0.06	0.02		28			0.08	
29								T	T				29												29			T	
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)	.51	.69	.95	1.11	1.42	1.53	1.64	1.67	1.71	1.77	1.84	1.86
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	0143	0143	0142	0147	0157	0206	0224	0224	0224	0224	0224	0249

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
SEPTEMBER 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							1.75	6.00	
02							1.25	10.00	
03							10.00	10.00	
04							7.00	10.00	
05							5.00	10.00	
06							5.00	10.00	
07							4.00	10.00	
08							4.00	10.00	
09							2.00	9.00	
10							1.50	10.00	
11							10.00	10.00	
12							7.00	10.00	
13							7.00	10.00	
14							3.00	10.00	
15							4.00	10.00	
16							<.25	10.00	
17							3.00	10.00	
18							1.75	8.00	
19							.50	10.00	
20							2.50	10.00	
21							9.00	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							9.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							1.75	10.00	
28							.75	10.00	
29							2.50	10.00	
30							8.00	10.00	
MONTHLY AVGS							5.06	9.77	
<p align="center">SUNSHINE (MINUTES)</p> <p>Total: Possible:</p> <p align="center">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">1 12 12</p>									

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

SEPTEMBER 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: 0528	SEP 01			SUNSET: 1839										SUNRISE: 0534	SEP 07									
03	CLR	NC			4.00	BR	65	62	63	90	6	17	29.02	30.16	03	CLR	NC			8.00	65	59	61	81	8	19	28.92	30.06	
06	CLR	NC			1.75	BR	64	61	62	90	5	18	29.01	30.16	06	CLR	NC			4.00	63	59	61	87	5	19	28.97	30.11	
09	CLR	NC			4.00	HZ	74	66	69	76	9	19	29.00	30.14	09	CLR	NC			10.00	74	62	66	67	10	19	28.99	30.14	
12	CLR	NC			6.00	HZ	82	67	72	60	12	20	28.95	30.09	12	CLR	NC			10.00	83	63	70	51	7	20	28.98	30.12	
15	CLR	NC			5.00	HZ	83	67	72	59	13	17	28.88	30.01	15	CLR	NC			10.00	86	62	70	45	9	17	28.95	30.09	
18	CLR	NC			4.00	HZ	78	68	71	71	8	17	28.84	29.97	18	CLR	NC			9.00	78	67	71	69	7	13	28.96	30.10	
21	CLR	NC			4.00	HZ	72	67	69	84	12	16	28.83	29.96	21	CLR	NC			9.00	71	62	65	73	8	15	28.99	30.13	
24	SCT	NC			5.00	HZ	71	65	67	81	12	19	28.81	29.94	24	CLR	NC			6.00	65	61	63	87	5	21	29.00	30.14	
					SUNRISE: 0529	SEP 02			SUNSET: 1837										SUNRISE: 0535	SEP 08									
03	OVC	043			3.00	+RA BR	70	67	68	90	9	20	28.76	29.89	03	CLR	NC			6.00	64	59	61	84	3	19	29.00	30.14	
06	BKN	075			4.00	-RA	71	66	68	84	7	21	28.75	29.88	06	CLR	NC			4.00	63	59	61	87	5	16	29.03	30.17	
09	FEW	NC			4.00	BR	70	67	68	90	15	14	28.72	29.85	09	CLR	NC			8.00	76	67	70	74	9	19	29.04	30.19	
12	CLR	NC			5.00	HZ	75	69	71	82	20	17	28.68	29.81	12	CLR	NC			8.00	84	71	75	65	7	17	29.03	30.16	
15	CLR	NC			7.00		84	72	76	67	25	18	28.60	29.71	15	CLR	NC			10.00	87	71	76	59	12	18	28.98	30.12	
18	CLR	NC			6.00	HZ	81	71	74	72	15	20	28.60	29.72	18	CLR	NC			9.00	81	73	75	77	7	16	28.98	30.12	
21	SCT	NC			9.00		76	66	69	72	20	33	28.70	29.83	21	CLR	NC			8.00	74	69	71	85	5	19	29.00	30.14	
24	CLR	NC			10.00		65	56	60	73	10	35	28.78	29.91	24	CLR	NC			7.00	71	68	69	90	5	18	29.01	30.15	
					SUNRISE: 0530	SEP 03			SUNSET: 1835										SUNRISE: 0536	SEP 09									
03	CLR	NC			10.00		56	54	55	93	5	22	28.82	29.95	03	CLR	NC			5.00	69	67	68	93	7	18	29.01	30.14	
06	CLR	NC			10.00		55	54	54	96	5	21	28.88	30.01	06	CLR	NC			2.00	66	65	65	96	6	21	29.02	30.16	
09	CLR	NC			10.00		69	57	62	66	7	29	28.92	30.05	09	CLR	NC			5.00	79	70	73	74	6	22	29.01	30.14	
12	CLR	NC			10.00		77	51	62	40	12	32	28.92	30.06	12	CLR	NC			9.00	86	67	73	53	12	20	28.99	30.12	
15	CLR	NC			10.00		78	51	62	39	8	31	28.92	30.06	15	CLR	NC			8.00	87	67	73	51	7	19	28.94	30.08	
18	CLR	NC			10.00		73	58	64	59	5	25	28.93	30.08	18	CLR	NC			5.00	80	69	73	69	5	18	28.92	30.06	
21	CLR	NC			10.00		62	58	60	86	0	00	28.96	30.11	21	CLR	NC			6.00	73	66	68	79	3	20	28.92	30.05	
24	CLR	NC			10.00		59	56	57	90	3	22	28.98	30.13	24	CLR	NC			5.00	67	64	65	91	5	20	28.90	30.02	
					SUNRISE: 0531	SEP 04			SUNSET: 1833										SUNRISE: 0537	SEP 10									
03	CLR	NC			10.00		58	53	55	84	0	00	29.00	30.15	03	CLR	NC			4.00	65	63	64	93	6	20	28.86	29.99	
06	CLR	NC			10.00		57	52	54	83	5	02	29.05	30.20	06	CLR	NC			3.00	65	63	64	93	6	21	28.86	29.99	
09	CLR	NC			10.00		74	59	65	60	5	01	29.09	30.24	09	CLR	NC			7.00	75	66	69	74	7	30	28.85	29.98	
12	CLR	NC			10.00		79	56	65	45	3	06	29.08	30.23	12	BKN	090			8.00	70	68	69	93	9	34	28.85	29.99	
15	CLR	NC			10.00		82	50	63	33	0	00	29.06	30.21	15	OVC	010			9.00	66	63	64	90	12	35	28.88	30.02	
18	CLR	NC			10.00		76	62	67	62	3	12	29.04	30.19	18	BKN	035			10.00	65	59	61	81	9	35	28.90	30.04	
21	CLR	NC			10.00		64	58	60	81	0	00	29.05	30.19	21	CLR	NC			10.00	61	56	58	84	10	36	28.94	30.09	
24	CLR	NC			10.00		60	57	58	90	0	00	29.04	30.19	24	CLR	NC			10.00	55	53	54	93	3	VR	28.96	30.11	
					SUNRISE: 0532	SEP 05			SUNSET: 1832										SUNRISE: 0538	SEP 11									
03	CLR	NC			10.00		62	57	59	84	0	00	29.02	30.16	03	CLR	NC			10.00	54	51	52	90	6	01	28.96	30.12	
06	CLR	NC			8.00		60	57	58	90	7	14	29.04	30.19	06	CLR	NC			10.00	49	47	48	93	3	01	29.01	30.18	
09	CLR	NC			10.00		69	58	62	68	9	15	29.06	30.21	09	CLR	NC			10.00	64	57	60	78	7	02	29.02	30.18	
12	CLR	NC			10.00		76	60	66	58	8	15	29.05	30.19	12	CLR	NC			10.00	71	52	60	51	5	VR	29.00	30.16	
15	CLR	NC			10.00		79	60	67	52	9	12	28.99	30.13	15	CLR	NC			10.00	73	47	58	40	0	00	28.97	30.12	
18	CLR	NC			10.00		74	62	66	67	5	14	28.95	30.10	18	CLR	NC			10.00	68	55	60	63	0	00	28.94	30.10	
21	CLR	NC			10.00		66	58	61	75	8	14	28.96	30.11	21	CLR	NC			10.00	56	52	54	87	0	00	28.96	30.12	
24	CLR	NC			10.00		63	57	59	81	8	16	28.95	30.09	24	CLR	NC			10.00	53	50	51	89	0	00	28.95	30.11	
					SUNRISE: 0533	SEP 06			SUNSET: 1830										SUNRISE: 0539	SEP 12									
03	CLR	NC			9.00		59	56	57	90	3	19	28.94	30.09	03	CLR	NC			10.00	50	48	49	93	0	00	28.95	30.11	
06	CLR	NC			8.00		59	56	57	90	8	16	28.93	30.08	06	CLR	NC			9.00	50	48	49	93	3	20	28.98	30.14	
09	CLR	NC			10.00		70	62	65	76	7	03	28.99	30.14	09	CLR	NC			10.00	67	49	57	53	7	24	28.98	30.14	
12	CLR	NC			10.00		77	62	67	60	10	13	28.92	30.06	12	CLR	NC			10.00	72	49	59	44	5	20	28.95	30.10	
15	CLR	NC			10.00		82	61	69	49	10	17	28.88	30.01	15	CLR	NC			10.00	74	51	61	45	7	22	28.92	3	

OBSERVATIONS AT 3-HOURLY INTERVALS

DUBUQUE, IA

SEPTEMBER 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: 0540		SEP 13	SUNSET: 1818										SUNRISE: 0547		SEP 19	SUNSET: 1807										
03	CLR	NC			10.00			52	48	50	86	5	22	28.89	30.03	03	OVC	055			9.00	-RA				28.47	29.60		
06	CLR	NC			10.00			53	49	51	86	0	00	28.91	30.05	06	OVC	037			7.00				8	19	28.48	29.60	
09	CLR	NC			10.00			65	52	58	63	7	17	28.92	30.06	09	BKN	009			4.00	BR			14	19	28.47	29.59	
12	CLR	NC			10.00			71	51	60	49	5	VR	28.88	30.03	12	FEW	NC			10.00				12	18	28.46	29.58	
15	CLR	NC			10.00			75	52	62	45	10	20	28.82	29.96	15	FEW	NC			10.00				16	22	28.43	29.55	
18	CLR	NC			10.00			70	57	62	64	6	09	28.79	29.93	18	OVC	037			10.00				9	19	28.48	29.61	
21	SCT	NC			10.00			65	53	58	66	7	15	28.79	29.93	21	OVC	041			9.00				3	21	28.52	29.64	
24	FEW	NC			10.00			62	54	57	75	5	20	28.76	29.90	24	OVC	008			10.00				6	06	28.48	29.60	
			SUNRISE: 0542		SEP 14	SUNSET: 1816										SUNRISE: 0548		SEP 20	SUNSET: 1805										
03	OVC	100			10.00			62	52	56	70	7	18	28.74	29.87	03	OVC	006			5.00	BR				9	17	28.42	29.54
06	OVC	085			9.00			60	53	56	78	6	23	28.75	29.89	06	OVC	007			7.00	-RA				12	18	28.41	29.54
09	CLR	NC			10.00			66	56	60	70	6	15	28.75	29.89	09	OVC	009			5.00	BR				10	25	28.44	29.57
12	OVC	055			10.00			67	56	60	68	8	19	28.74	29.88	12	OVC	015			10.00				16	22	28.46	29.59	
15	BKN	060			10.00			70	61	64	73	10	24	28.74	29.88	15	OVC	026			10.00				14	23	28.43	29.55	
18	OVC	030			4.00	BR		67	64	65	91	8	33	28.79	29.93	18	CLR	NC			10.00				7	25	28.50	29.63	
21	OVC	014			8.00			63	61	62	93	12	36	28.85	30.00	21	CLR	NC			10.00				6	18	28.57	29.70	
24	SCT	NC			5.00	BR		60	59	59	96	8	36	28.90	30.04	24	CLR	NC			10.00				5	21	28.60	29.74	
			SUNRISE: 0543		SEP 15	SUNSET: 1814										SUNRISE: 0549		SEP 21	SUNSET: 1804										
03	OVC	010			10.00			58	54	56	87	13	02	28.93	30.09	03	CLR	NC			10.00					7	23	28.64	29.79
06	CLR	NC			10.00			55	52	53	90	12	04	28.99	30.15	06	CLR	NC			10.00					0	00	28.74	29.89
09	CLR	NC			10.00			59	51	55	75	12	04	29.03	30.19	09	CLR	NC			10.00					12	01	28.78	29.93
12	CLR	NC			10.00			66	53	59	63	10	05	29.02	30.18	12	BKN	090			10.00					13	34	28.83	29.97
15	CLR	NC			10.00			69	50	58	51	8	03	28.98	30.13	15	CLR	NC			10.00					9	36	28.84	29.98
18	CLR	NC			10.00			63	51	56	65	5	34	28.97	30.13	18	OVC	085			10.00					9	35	28.90	30.06
21	CLR	NC			10.00			52	49	50	89	0	00	28.99	30.15	21	CLR	NC			10.00					8	31	28.93	30.09
24	CLR	NC			10.00			49	46	47	90	0	00	28.96	30.13	24	SCT	NC			10.00					7	30	28.95	30.11
			SUNRISE: 0544		SEP 16	SUNSET: 1813										SUNRISE: 0550		SEP 22	SUNSET: 1802										
03	CLR	NC			10.00			47	44	46	90	0	00	28.96	30.12	03	BKN	120			10.00					0	00	28.93	30.09
06	VV	001			<.25	FG		47	47	47	100	0	00	28.98	30.14	06	CLR	NC			10.00					0	00	28.97	30.14
09	CLR	NC			10.00			63	56	59	78	7	19	28.99	30.15	09	CLR	NC			10.00					15	29	28.99	30.16
12	CLR	NC			10.00			71	49	59	46	7	21	28.97	30.12	12	FEW	NC			10.00					20	28	28.98	30.15
15	CLR	NC			10.00			75	51	61	43	9	20	28.92	30.07	15	CLR	NC			10.00					17	29	28.96	30.13
18	CLR	NC			10.00			69	54	60	59	6	17	28.90	30.04	18	CLR	NC			10.00					5	30	28.98	30.15
21	CLR	NC			10.00			57	53	55	87	3	20	28.90	30.04	21	CLR	NC			10.00					3	21	29.01	30.18
24	CLR	NC			10.00			55	51	53	87	5	18	28.89	30.03	24	CLR	NC			10.00					0	00	29.02	30.19
			SUNRISE: 0545		SEP 17	SUNSET: 1811										SUNRISE: 0551		SEP 23	SUNSET: 1758										
03	CLR	NC			8.00			52	50	51	93	3	19	28.89	30.03	03	CLR	NC			10.00					3	18	29.01	30.18
06	CLR	NC			3.00	BR		50	49	49	96	5	19	28.90	30.05	06	CLR	NC			10.00					5	20	29.00	30.18
09	CLR	NC			9.00			67	58	62	73	8	19	28.91	30.06	09	BKN	100			10.00					14	19	28.97	30.15
12	CLR	NC			10.00			74	57	64	56	12	17	28.86	30.00	12	BKN	095			10.00					18	20	28.92	30.08
15	CLR	NC			10.00			75	58	65	55	10	12	28.79	29.93	15	CLR	NC			10.00					21	28	28.93	30.09
18	CLR	NC			9.00			68	60	63	76	8	12	28.74	29.89	18	CLR	NC			10.00					10	30	29.01	30.18
21	CLR	NC			8.00			65	60	62	84	7	14	28.74	29.88	21	CLR	NC			10.00					7	31	29.08	30.25
24	FEW	NC			7.00			65	59	61	81	8	13	28.70	29.83	24	CLR	NC			10.00					5	30	29.12	30.29
			SUNRISE: 0546		SEP 18	SUNSET: 1809										SUNRISE: 0552		SEP 24	SUNSET: 1757										
03	OVC	110			5.00	BR		64	60	62	87	6	17	28.67	29.80	03	CLR	NC			10.00					3	20	29.14	30.31
06	FEW	NC			3.00	BR		62	59	60	90	9	15	28.63	29.77	06	CLR	NC			10.00					0	00	29.18	30.36
09	SCT	NC			5.00	HZ		69	62	65	78	14	16	28.63	29.77	09	CLR	NC			10.00					5	04	29.20	30.37
12	OVC	014			4.00	HZ		72	66	68	82	15	17	28.60	29.72	12	CLR	NC			10.00					3	VR	29.17	30.35
15	CLR	NC			4.00	BR		68	65	66	90	14	15	28.51	29.64	15	CLR	NC			10.00					7	20	29.12	30.30
18	CLR	NC			5.00	HZ		72	67	69	84	15	16	28.50	29.63	18	CLR	NC			10.00					7	12	29.09	30.27
21	SCT	NC			5.00	BR		72	68	69	87	13	15	28.49	29.60	21	CLR	NC			10.00					8	18	29.09	30.26
24	OVC	070			5.00	-RA BR		70	68	69	93	13	16	28.47	29.59	24	BKN	110			10.00					3	VR	29.10	30.27

OBSERVATIONS AT 3-HOURLY INTERVALS

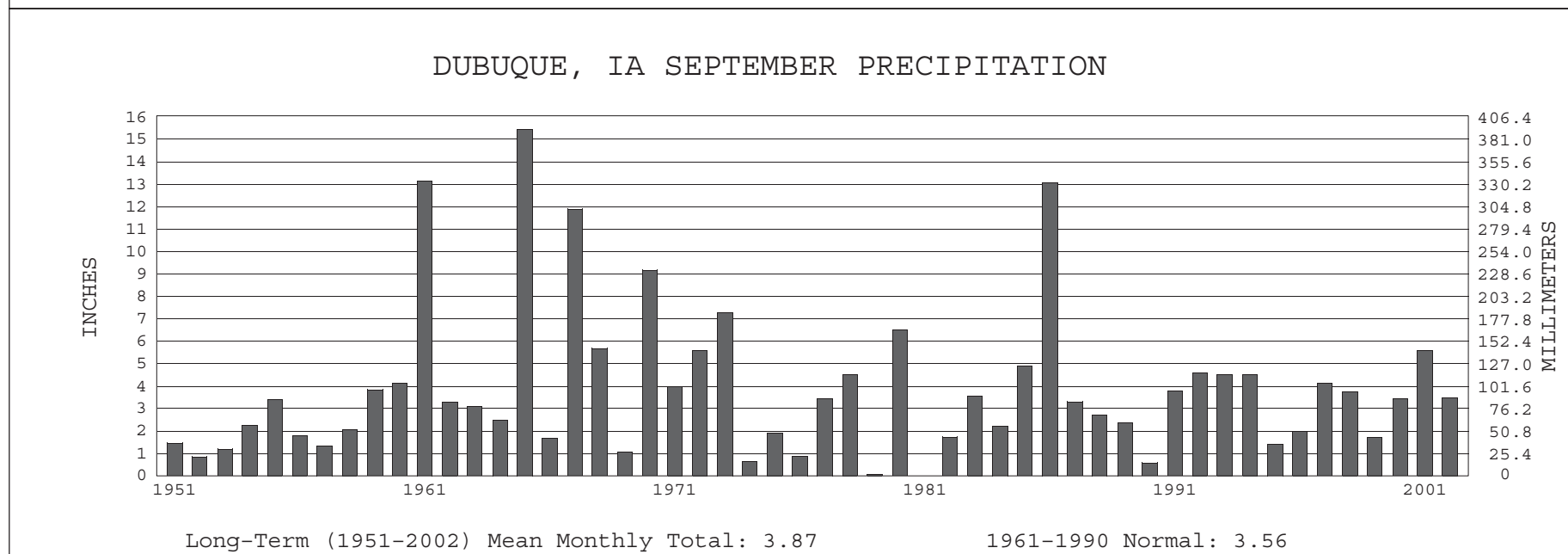
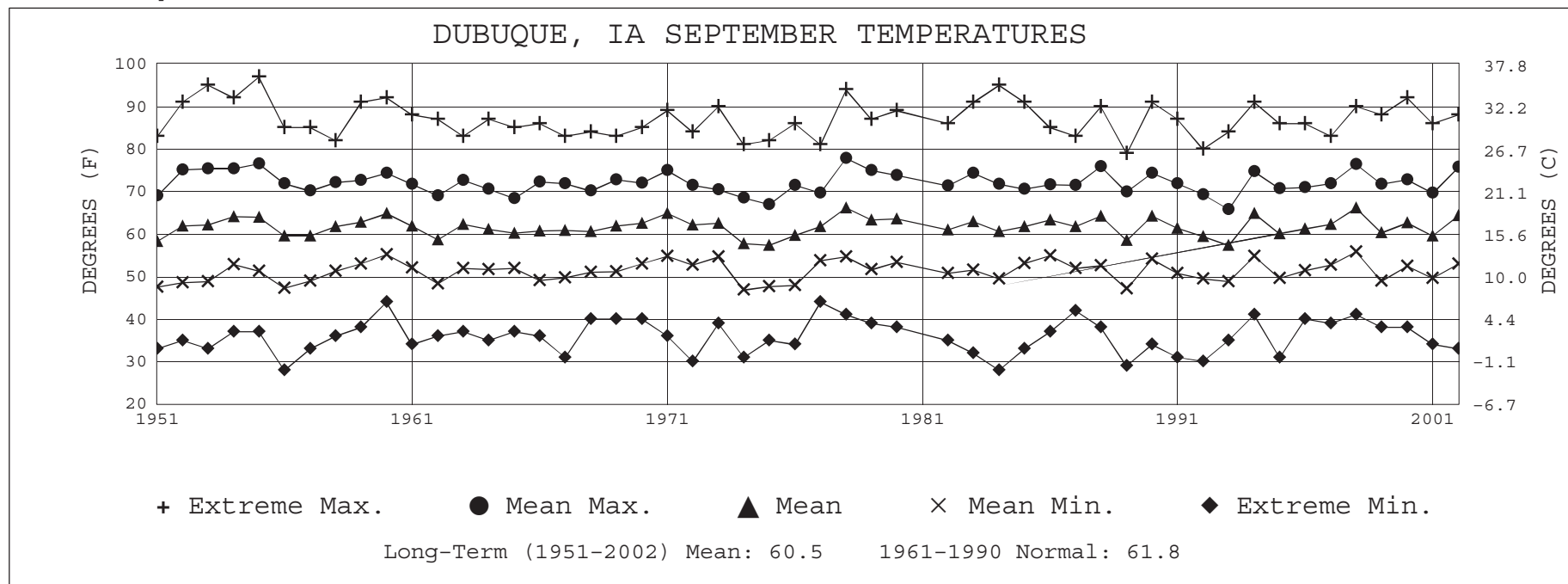
DUBUQUE, IA

SEPTEMBER 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 OFFT	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 OFFT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL											
SEP 25 SEP 26 SEP 27 SEP 28 SEP 29 SEP 30																SEP 31																								
SUNRISE: 0553 SEP 25 SUNSET: 1755																SUNRISE: SEP 31 SUNSET:																								
03	CLR	NC			10.00		49	40	45	71	3	14	29.11	30.28																										
06	OVC	100			10.00		50	43	47	77	8	16	29.09	30.25																										
09	SCT	NC			10.00		55	44	49	67	10	17	29.09	30.26																										
12	CLR	NC			10.00		68	41	54	38	13	16	29.03	30.19																										
15	CLR	NC			10.00		72	42	56	34	14	18	28.95	30.11																										
18	CLR	NC			10.00		63	48	55	58	7	14	28.93	30.09																										
21	CLR	NC			10.00		61	44	52	54	9	16	28.92	30.06																										
24	CLR	NC			10.00		58	43	50	58	3	16	28.90	30.04																										
SUNRISE: 0554 SEP 26 SUNSET: 1753																3-HOURLY OBSERVATION NOTES																								
03	CLR	NC			10.00		53	43	48	69	5	18	28.87	30.02	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 Visibilty = 8/8.																									
06	CLR	NC			10.00		50	42	46	74	5	19	28.85	30.00	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																									
09	CLR	NC			10.00		63	46	54	54	8	18	28.84	29.98	NC= No ceiling detected.																									
12	CLR	NC			10.00		73	45	58	37	3	01	28.79	29.93	& = Original observation contained additional weather elements.																									
15	CLR	NC			10.00		73	50	60	44	7	04	28.70	29.85	See page 3 for additional notes.																									
18	CLR	NC			10.00		62	52	56	70	0	00	28.69	29.84																										
21	CLR	NC			7.00		57	55	56	93	12	02	28.69	29.84																										
24	SCT	NC			4.00	BR	54	53	53	97	10	01	28.67	29.81																										
SUNRISE: 0555 SEP 27 SUNSET: 1751																SUMMARY BY HOUR																								
03	OVC	006			2.50	BR	54	53	53	97	15	01	28.65	29.79	AVERAGES												RESULTANT WIND (MPH)													
06	OVC	006			2.50	BR	53	51	52	93	9	04	28.67	29.82																										
09	OVC	008			2.00	BR	54	51	52	90	8	04	28.72	29.88	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION																
12	OVC	008			6.00	BR	55	51	53	87	12	01	28.75	29.90					STATION	SEA LEVEL																				
15	OVC	060			8.00		60	52	56	75	7	01	28.77	29.92																										
18	OVC	026			10.00		56	51	53	84	7	03	28.83	29.98																										
21	CLR	NC			8.00		50	49	49	96	6	04	28.88	30.03																										
24	CLR	NC			7.00		46	45	46	96	6	03	28.91	30.07																										
SUNRISE: 0557 SEP 28 SUNSET: 1750																HOUR (LST)												CEILOMETER		EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
03	BKN	024			8.00		47	44	46	90	5	09	28.94	30.10	STATION																				SEA LEVEL					
06	BKN	022			0.75	BR	47	45	46	93	3	03	28.96	30.13																										
09	OVC	028			10.00		54	49	51	83	9	14	29.00	30.17																										
12	CLR	NC			8.00		65	54	59	68	10	16	28.95	30.11																										
15	CLR	NC			8.00		73	56	63	55	10	17	28.87	30.02																										
18	BKN	110			5.00	-RA	66	59	62	78	9	14	28.87	30.02																										
21	OVC	055			2.50	BR	62	60	61	93	13	04	28.88	30.03																										
24	FEW	NC			4.00	BR	61	58	59	90	13	12	28.84	29.98																										
SUNRISE: 0558 SEP 29 SUNSET: 1748																HOUR (LST)												CEILOMETER		EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
03	SCT	NC			4.00	BR	61	57	59	87	8	12	28.82	29.96	STATION																				SEA LEVEL					
06	CLR	NC			4.00	BR	60	57	58	90	9	14	28.85	29.99																										
09	FEW	NC			4.00	BR	64	60	62	87	10	15	28.86	30.00																										
12	CLR	NC			9.00		76	63	68	64	14	19	28.83	29.96																										
15	CLR	NC			10.00		84	60	69	44	13	19	28.78	29.91																										
18	CLR	NC			10.00		76	62	67	62	9	17	28.76	29.90																										
21	CLR	NC			10.00		72	60	65	66	13	18	28.77	29.91																										
24	CLR	NC			10.00		71	63	66	76	16	19	28.76	29.89																										
SUNRISE: 0559 SEP 30 SUNSET: 1746																HOUR (LST)												CEILOMETER		EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
03	CLR	NC			10.00		70	63	66	79	14	20	28.76	29.88	STATION																				SEA LEVEL					
06	CLR	NC			9.00		67	62	64	84	10	18	28.77	29.90																										
09	CLR	NC			10.00		70	62	65	76	17	18	28.75	29.88																										
12	CLR	NC			10.00		80	63	69	56	18	18	28.70	29.83																										
15	CLR	NC			10.00		83	62	69	49	23	19	28.63	29.75																										
18	FEW	NC			10.00		77	61	67	58	13	19	28.64	29.77																										
21	CLR	NC			10.00		73	60	65	64	15	18	28.67	29.80																										
24	SCT	NC			10.00		71	57	63	61	13	19	28.69	29.81																										





SEPTEMBER 2002

DUBUQUE, IA

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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