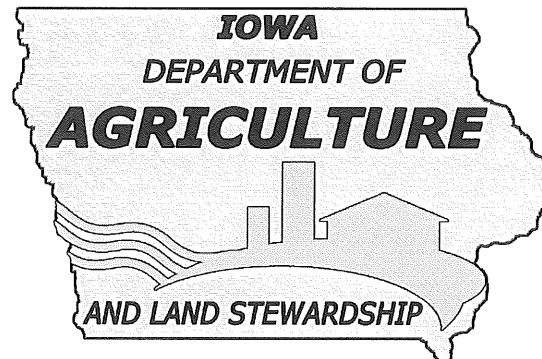


Iowa Department of Agriculture & Land Stewardship  
BILL NORTHEY, Secretary of Agriculture

STATE CLIMATOLOGIST OFFICE

# IOWA CLIMATE REVIEW

VOLUME 30, NUMBER 9  
SEPTEMBER 2016



The cooperation of the National Weather Service offices at Davenport, Johnston (Des Moines), La Crosse, Sioux Falls and Valley (Omaha) and their network of volunteer weather observers across Iowa in providing the data used in compiling this report is gratefully acknowledged.

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The climatic data used in this report are compiled from official records on file at the State Climatologist Office in Johnston. Some of these data are of a preliminary nature and are subject to change without notice. Differences may exist in data values published here and those subsequently published in the U.S. Department of Commerce report *Climatological Data Iowa* due to use of differing quality control procedures.

## IOWA MONTHLY WEATHER SUMMARY – SEPTEMBER 2016

General Summary. Iowa temperatures averaged 67.3° or 4.1° above normal while precipitation totaled 6.19 inches or 2.81 inches above normal. This ranks as the 15<sup>th</sup> warmest and 13<sup>th</sup> wettest September among 144 years of state records. A wetter September last occurred in 1986 while a warmer one came just last year.

Temperatures. Above normal temperatures were the rule for most of the month with below normal readings confined to the 1<sup>st</sup>-3<sup>rd</sup>, 10<sup>th</sup>-11<sup>th</sup>, 13<sup>th</sup> and 28<sup>th</sup>. There were six days averaging more than ten degrees above normal (6<sup>th</sup> and 20<sup>th</sup> through 24<sup>th</sup>) while the 2<sup>nd</sup> was the most unusually cool at just 3.7 degrees below normal. Temperatures extremes varied from highs of 94° at Burlington on the 6<sup>th</sup> and at Algona, Atlantic, Clarion, Indianola and Sigourney on the 21<sup>st</sup>. The lowest temperatures occurred at Spencer Airport on the mornings of the 29<sup>th</sup> and 30<sup>th</sup> with 38° readings, which was also matched at Sheldon on the 29<sup>th</sup>. This was the highest statewide September minimum temperature on record (old record of 36° in 1905 and 1987).

Cooling Degree Day Totals. Home air conditioning requirements, as estimated by cooling degree day totals, averaged 62% greater than normal but 24% less than last September. Cooling degree day totals for the year-to-date are running 21% greater than last year and 17% greater than normal.

Precipitation. The big weather news for the month was the excessive rains over central and northern Iowa on the 9<sup>th</sup>-10<sup>th</sup>, 15<sup>th</sup>-16<sup>th</sup> and 21<sup>st</sup>-23<sup>rd</sup>. The first of these three events brought rain statewide with Clarksville reporting the most rain with 4.35 inches. The second event brought the most widespread heavy rains of the month with a maximum of 5.35 inches near Blencoe in Monona County. However, the most destructive event was the final one. This last event largely left the southern one-third of Iowa dry but dumped 10.56 inches of rain near Nora Springs and 9.44 inches near Nashua. Major flooding occurred across much of north central and northeast Iowa and locations downstream of the heaviest rains. The Shell Rock River at Shell Rock set a record flood crest 1.15 feet higher than the old record of June 2008. Flooding along the Cedar River at Cedar Falls, Waterloo and Cedar Rapids was the second highest of record behind the disastrous floods of 2008. Monthly rain totals of ten inches or more were fairly common across

the north one-third of the state while parts of southeast Iowa were unusually dry. Monthly rain totals varied from only 0.90 inches at Fairfield (less than one-third of normal) to 17.25 near Nora Springs. A higher September rain total than that at Nora Springs has been recorded in only two other years in Iowa (1926 and 1970). Record high September rain totals were set at the following locations:

Station	Sep 2016 Total	Previous Sep Record	Period of Record
Charles City	15.83 inches	12.51 in 1965	134 years
Decorah	11.66	11.21 in 1972	134 years
Tripoli	11.49	8.02 in 1965	69 years
New Hampton	11.17	9.82 in 1965	115 years
Postville	10.78	8.82 in 1931	75 years
Emmetsburg	10.03	9.82 in 1964	75 years
Sheldon	9.69	9.52 in 1926	106 years

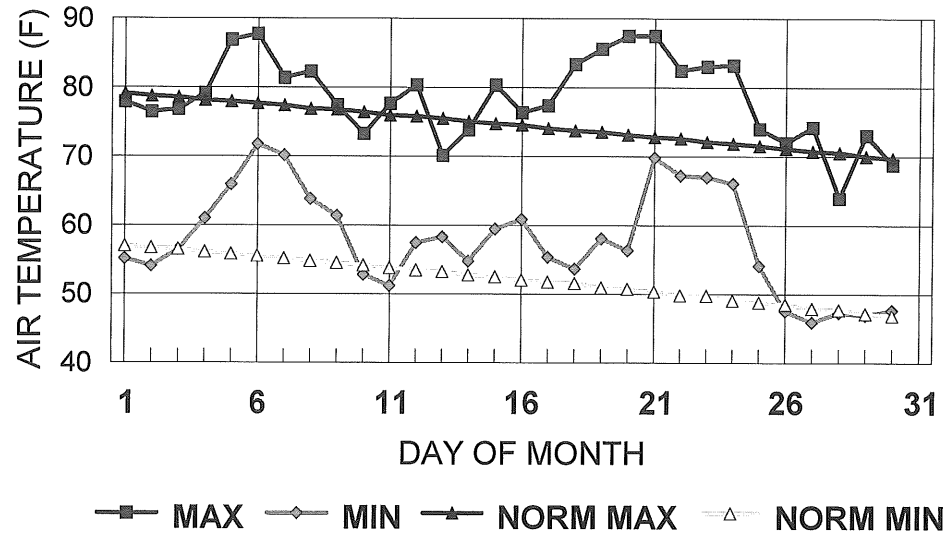
September was the fourth consecutive very wet month across parts of northeastern Iowa. As a result, with three months remaining in the year, record annual precipitation totals have already been established at the following locations:

Station	2016 Total	Previous Record	Period of Record
Charles City	51.93 inches	51.35 in 1999	133 years
Decorah	51.71 inches	48.74 in 2007	128 years
Cresco	50.90 inches	47.87 in 1951	110 years
Osage	45.98 inches	45.72 in 1999	112 years

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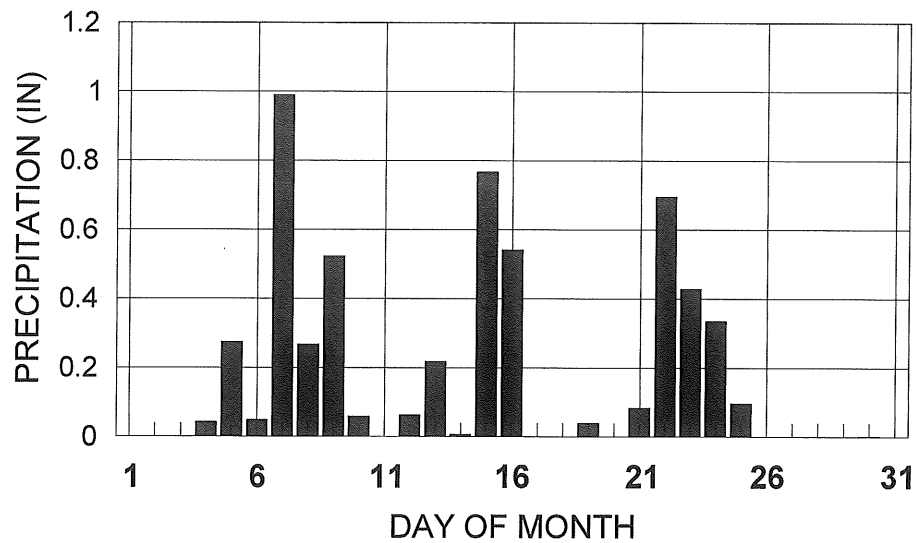
## IOWA DAILY MAX & MIN TEMPERATURES

SEPTEMBER 2016 (SELECTED STATIONS)



## IOWA AVERAGE DAILY PRECIPITATION

SEPTEMBER 2016 (SELECTED STATIONS)



SEPTEMBER 2016																															IOWA CLIMATE REVIEW									
AIRPORT	DAY OF MONTH																																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
PRELIMINARY AVERAGE DAILY DEW POINT TEMPERATURE																																AVG								
Ames	56	57	59	63	69	73	72	64	68	53	54	63	60	57	64	62	59	59	63	64	72	70	70	68	57	43	43	48	50	54		60.5								
Burlington	58	56	59	61	68	73	74	73	69	57	54	58	64	63	66	69	61	58	64	68	71	66	69	67	63	43	43	47	52	57		61.7								
Cedar Rapids	57	57	58	62	69	73	74	67	67	56	54	60	64	58	64	64	60	56	64	64	70	68	69	68	62	43	42	49	50	55		60.8								
Davenport	56	55	55	59	66	71	72	69	68	56	52	56	62	58	61	65	58	55	61	62	66	65	67	66	61	40	38	47	51	56		59.1								
Des Moines	56	56	57	61	68	71	72	68	68	52	53	62	61	57	65	62	57	57	65	67	72	70	69	68	56	42	44	47	48	53		60.1								
Dubuque	55	55	56	59	66	71	72	65	65	55	53	56	61	56	60	64	57	56	62	58	63	65	65	64	60	40	39	48	49	55		58.3								
Estherville	55	55	57	62	69	69	67	58	60	52	53	59	50	50	60	59	55	57	54	57	70	65	67	67	52	37	37	46	47	50		56.5								
Iowa City	57	56	57	60	66	71	73	69	67	55	53	58	62	58	63	63	58	55	63	64	68	67	68	67	61	42	41	47	49	54		59.7								
Lamoni	58	57	58	60	68	72	73	73	69	54	54	62	64	62	67	63	58	59	68	70	72	70	67	68	57	44	45	47	49	53		61.4								
Marshalltown	55	56	57	61	68	72	71	63	67	54	53	61	60	55	63	62	58	56	63	61	71	68	69	68	58	42	41	48	50	54		59.5								
Mason City	52	53	55	60	67	71	68	60	62	51	52	60	54	50	59	60	55	56	55	53	68	64	65	66	55	37	37	47	47	51		56.3								
Moline, IL	56	55	56	59	66	72	73	70	68	56	53	56	62	59	62	66	59	56	61	64	66	65	68	67	61	41	41	47	51	56		59.7								
Omaha, NE	58	56	58	62	68	70	70	67	65	52	53	60	56	57	65	61	56	60	63	66	70	69	64	67	49	43	47	45	47	48		59.1								
Ottumwa	56	55	57	59	67	71	71	70	67	54	52	59	62	59	65	62	56	55	64	65	71	67	67	65	58	41			47	52		60.5								
Sioux City	57	56	58	63	70					51	54	59	48	54	64	58	55	60	57	64	69	66	65	69	48	43	45	45	47	47		56.6								
Sioux Falls, SD	58	56	58	63	71	67	68	56	56	51	55	57	47	51	61	58	55	58	54	62	67	64	64	66	46	38	40	44	45	46		56.1								
Spencer	53	53	55	60	68	68	66	56	57	50	52	58			61	58	55	58	54	59	69	65	67	67	50	39	40	45	47	48		56.4								
Waterloo	53	53	55	58	66	70	70	62	64	52	51	58	58	52	59	60	56	53	60	55	66	65	66	65	57	39	37	47	48	53		56.9								
PRELIMINARY AVERAGE DAILY WIND SPEED (MPH)																																AVG								
Ames	4.5	4.3	7.2	10.4	11.0	11.1	7.0	3.7	7.5	11.4	8.8	10.1	10.8	4.7	9.0	5.8	6.5	8.1	5.7	7.2	11.2	10.8	8.4	9.9	11.5	13.7	11.4	13.6	8.1	6.9		8.7								
Burlington	7.5	7.8	5.8	6.5	9.7	10.8	8.6	5.5	3.5	7.9	4.6	10.6	6.3	7.0	8.1	9.1	5.7	4.1	7.3	5.2	7.7	6.1	4.4	6.0	8.6	8.4	8.1	11.4	12.4	10.6		7.5								
Cedar Rapids	7.6	5.6	5.9	6.9	10.3	10.4	8.7	5.4	8.2	10.9	7.6	10.9	7.2	5.6	8.1	6.6	8.2	7.2	9.1	7.2	10.5	8.1	9.7	9.6	11.5	14.7	11.1	12.2	11.5	9.4		8.9								
Davenport	7.4	6.9	5.8	7.1	10.1	11.1	8.8	4.7	6.3	10.0	6.2	10.0	6.7	6.6	7.8	7.8	7.1	5.0	8.1	8.9	10.7	7.4	8.5	9.6	10.3	12.2	11.6	10.6	12.9	10.7		8.6								
Des Moines	6.4	7.8	9.6	12.5	13.1	12.8	7.2	4.5	9.7	10.9	10.6	11.0	8.2	6.6	11.8	6.6	7.3	10.1	9.0	7.9	11.5	9.8	9.4	11.0	10.7	11.0	9.1	11.1	9.4	7.8		9.5								
Dubuque	7.9	6.1	7.2	10.2	12.8	11.1	6.9	6.6	8.4	10.3	7.2	12.5	9.5	5.6	9.0	9.6	7.5	7.1	10.7	8.2	13.3	8.6	8.3	7.9	12.8	13.9	11.5	11.3	12.7	9.9		9.5								
Estherville	5.1	8.8	13.4	15.1	13.6	9.0	6.6	5.8	7.8	9.7	12.6	12.5	11.3	5.8	8.8	10.9	8.1	11.5	6.1	11.6	8.6	13.0	12.4	13.8	12.2	13.5	12.0	11.9	6.9	6.3		10.2								
Iowa City	5.9	4.6	5.0	6.6	8.3	9.6	6.7	4.3	7.7	10.1	5.1	7.4	6.5	5.1	7.0	6.0	6.3	5.3	7.4	6.4	8.0	4.6	7.0	7.5	10.0	10.8	9.9	10.4	10.8	9.3		7.3								
Lamoni	4.8	4.4	7.4	9.9	11.6	12.1	10.0	6.0	7.5	10.6	9.6	10.7	6.2	5.4	6.3	7.2	7.7	8.9	9.8	6.7	10.2	8.8	6.6	8.2	9.3	9.9	9.0	10.8	9.6	7.4		8.4								
Marshalltown	7.4	5.9	8.2	11.8	13.1	13.1	7.2	4.8	9.6	11.1	10.2	13.3	8.1	5.8	11.2	7.1	7.2	10.2	7.9	9.2	11.5	10.0	10.4	11.7	11.5	13.7	10.7	12.6	10.4	8.3		9.8								
Mason City	5.5	6.1	9.6	13.2	13.5	8.2	4.4	5.9	6.7	11.5	12.4	11.1	9.2	4.6	10.4	8.8	9.2	11.7	6.7	9.0	10.6	11.1	10.1	11.5	12.9	15.8	14.0	12.5	7.5	6.2		9.7								
Moline, IL	6.5	6.6	4.7	7.0	8.2	9.7	8.9	4.2	4.9	11.0	5.2	6.3	5.1	5.1	7.4	6.7	6.2	3.3	4.7	7.6	9.1	5.0	8.1	9.6	11.4	12.1	10.1	9.7	9.9	8.1		7.4								
Omaha, NE	6.7	10.6	13.1	16.9	18.4	11.4	9.1	8.0	10.1	9.4	15.5	12.8	10.0	6.2	13.3	6.2	4.5	11.5	6.9	10.1	14.2	10.3	12.7	10.9	11.0	7.7	4.6	10.0	6.6	5.9		10.2								
Ottumwa	5.7	6.5	6.5	9.0	10.7	9.7	8.0	5.4	7.7	11.5	7.3	10.7	7.1	5.8	9.4	6.7	7.2	6.9	8.1	7.9	9.1	7.1	7.6	8.9	9.9	11.6	10.6	12.9	11.0	8.9		8.5								
Sioux City	5.0	9.8	12.5	13.5	11.8	8.4	6.8	7.1	10.1	8.9	12.5	10.8	10.9	6.4	10.6	8.7	6.0	11.5	5.3	9.7	11.9	12.4	12.4	11.5	13.3	9.2	7.1	8.3	4.2	3.8		9.3								
Sioux Falls, SD	6.6	14.7	18.2	16.4	8.3	8.5	7.5	5.5	9.2	8.1	15.6	10.6	8.2	7.4	6.9	9.6	8.1	9.2	3.3	8.1	7.6	11.3	13.7	12.7	12.0	10.6	10.4	7.0	3.1	5.5		9.5								
Spencer	5.6	10.0	13.0	15.4	11.7	8.6	7.3	6.1	8.6	10.5	12.5	11.6	10.5	5.6	10.4	10.9	8.1	9.9	4.9	10.4	8.9	12.8	14.1	14.7	14.0	14.8	12.6	11.5	5.7	5.4		10.2								
Waterloo	6.8	4.8	8.3	13.2	12.9	11.8	6.3	4.4	9.2	9.2	9.6	12.5	9.3	4.7	10.6	6.5	7.2	9.0	6.7	6.4	13.0	10.1	9.2	11.1	11.2	13.0	10.5	13.0	10.0	8.6		9.3								
PRELIMINARY MAXIMUM 5-SECOND WIND GUST (MPH)																																MAX								
Ames	19	17	22	28	31	28	29	15	38	36	36	30	27	15	33	18	20	28	29	24	31	28	22	31	33	36	31	27	21	18		38								
Burlington	21	18	14	20	25	27	48	15	15	29	19	24	18	18	20	26	17	16	22	15	23	19	18	15	24	27	27	24	27	23		48								
Cedar Rapids	23	14	17	20	27	24	22	34	40	37	23	29	20	29	44	26	27	24	26	20	31	24	25	21	29	37	33	28	29	21		44								
Davenport	22	18	17	21	26	25	38	22	20	29	19	26	19	16	20	27	31	17	23	20	39	19	19	21	29	36	32	25	30	23		39								
Des Moines	20	20	22	27	33	31	22	17	48	30	26	32	28	19	40	25	24	29	24	22	27	24	20	33	30	40	30	27	23	17		48								
Dubuque	20	14	19	23	28	24	29	19	25	33	22	31	23	15	26	28	25	34	28	23	32	23	30	19	30	37	34	26	27	24		37								
Estherville	15	24	31	32	35	33	23	19	37	26	35	28	25	14	29	30	27	32	22	33	31	30	30	35	33	37	31	30	18	20		37								
Iowa City	20	14	16	19	25	26	30	17	41	30	20	21	26	18	1																									

SEPTEMBER 2016				MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																				IOWA CLIMATE REVIEW									
				TEMPERATURE (F)																PRECIPITATION (inches)							SNOWFALL (inches)						
				NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS								NUMBER OF DAYS			MAX ON										
				AVG	AVG	DEP	EXT	EXT	MAX	MAX	MIN	MIN	SEP	SEP	16-17	NORM	SEP	SEP	2016	NORM	TOTAL	DEP	EXT										
STATION	MAX	MIN	MEAN	NORM	MAX	DAY	MIN	DAY	90+	32-	32-	0-	2016	NORM	SEAS	SEAS	2016	NORM	SEAS	SEAS	TOTAL	NORM	DAY	DAY	0.01+	0.10+	1.00+	TOTAL	GND	DAY			
NORTHWEST DIVISION																																	
Akron																					4.43		1.66	7		8	7	2	0.0	0			
Cherokee	76.9	53.6	65.3	3.6	90	22	40	30	1	0	0	0	78	163	86	194	94	64	861	714	6.44	2.96	1.85	5	8	5	4	0.0	0				
Emmetsburg	77.1	54.9	66.0	5.0	93	22	45	30	1	0	0	0	65	173	74	202	104	53	884	627	10.03	6.92	2.41	16	10	9	4	0.0	0				
Estherville Airport	74.8	53.4	64.1	3.4	91	21	40	30	1	0	0	0	95	176	118	208	76	47	635	587	6.92		2.52	15	11	8	3	0.0	0				
Estherville 4 E	75.0	52.6	63.8	3.2	91	22	40	30	1	0	0	0	91	181	104	224	61	49	670	575	6.86	3.63	2.48	16	9	8	2	0.0	0				
Everly 3 WNW																				7.17		2.84	16	11	8	2	0.0	0					
Hawarden	77.7	53.2	65.5	3.5	90	22	39	30	1	0	0	0	78	155	86	180	96	67	909	759	5.41	2.06	1.52	5	9	7	3	0.0	0				
Le Mars	77.3	53.5	65.4	3.1	89	24	40	29	0	0	0	0	76	151	84	174	94	71	877	771	5.30	2.11	1.45	5	8	6	2	0.0	0				
Orange City																				6.83		1.86	7	10	6	4	0.0	0					
Pocahontas	77.7	54.8	66.3	3.8	92	22	44	29	1	0	0	0	67	147	75	168	112	72	908	764	7.06	4.17	2.95	16	12	9	3	0.0	0				
Primghar	77.0	56.8	66.9	2.9	88	22	42	27	0	0	0	0	53	119	55	134	118	91	1017	856	9.49	6.49	2.60	16	9	9	4	0.0	0				
Remsen #2																				7.68		2.75	5	8	8	2	0.0	0					
Rock Rapids	76.8	54.0	65.4	4.2	90	22	41	30	1	0	0	0	80	172	87	201	100	58	828	713	7.97	4.84	3.73	16	9	7	3	0.0	0				
Rock Valley																				8.08	4.86	3.74	16	10	8	2	0.0	0					
Sanborn	75.2	54.0	64.6	3.3	88	24	41	26	0	0	0	0	92	170	102	200	89	58	769	648	7.74	4.52	3.40	16	7	7	2	0.0	0				
Sheldon	75.1	51.7	63.4	3.7	88	22	38	29	0	0	0	0	107	200	134	248	63	43	672	557	9.69	6.51	4.52	16	10	8	4	0.0	0				
Sibley	75.2	52.7	64.0	3.4	90	22	40	28	1	0	0	0	97	180	112	223	75	48	717	564	10.29	6.87	3.88	16	12	10	5	0.0	0				
Sioux Center 2 SE	77.9	55.0	66.5	2.6	90	21	42	29	1	0	0	0	59	121	63	142	115	88	975	841	6.82	3.55	1.64	5	7	7	4	0.0	0				
Sioux Rapids 4 E	75.3	55.1	65.2	3.5	89	21	43	27	0	0	0	0	80	158	93	188	94	58	759	659	8.46	5.19	2.33	7	9	9	2	0.0	0				
Spencer Airport	77.0	53.9	65.5	4.1	92	21	38	30	1	0	0	0	81	167	94	195	103	58	794	676	6.74		2.40	15	9	6	2	0.0	0				
Spencer 1 N	76.3	54.6	65.5	4.0	91	21	42	30	1	0	0	0	78	166	88	199	99	61	859	683	7.49	4.23	2.46	15	9	8	2	0.0	0				
Spirit Lake 4 W	74.9	56.2	65.6		90	21	42	29	1	0	0	0	73		82		100		836		6.92		2.85	15	10	8	1	0.0	0				
Storm Lake	76.1	55.6	65.9	3.1	87	22	44	29	0	0	0	0	64	140	77	165	96	73	830	730	8.34	5.10	4.31	16	10	6	3	0.0	0				
NORTH CENTRAL DIVISION																																	
Algona 3 W	76.4	54.3	65.4	4.3	94	22	44	30	1	0	0	0	74	167	91	200	92	52	707	596	10.65	7.70	2.73	7	11	10	3	0.0	0				
Allison	76.0	55.5	65.8	3.6	90	7	43	28	1	0	0	0	53	146	61	167	82	61	766	701	9.85	6.78	3.25	10	9	9	4	0.0	0				
Britt														173		208		55		615	10.88	7.86	2.45	22	10	10	4	0.0	0				
Charles City	74.4	56.0	65.2	3.3	89	6	44	27	0	0	0	0	61	153	72	181	73	62	676	660	15.83	12.62	6.35	22	11	9	4	0.0	0				
Clarion	77.8	55.6	66.7	4.2	94	22	40	28	2	0	0	0	55	148		172	112	72		748	9.76	6.59	3.82	23	10	8	3	0.0	0				
Dakota City	76.8	54.5	65.7	4.1	92	22	43	30	1	0	0	0	67	155	78	178	96	53	810	620	7.02	3.83	2.02	16	11	8	3	0.0	0				
Forest City 2 NNE	74.5	54.1	64.3	2.8	85	6	42	28	0	0	0	0	76	162	93	190	65	57	604	642	11.12	7.88	3.05	22	12	10	3	0.0	0				
Hampton	77.9	55.4	66.7	4.8	90	7	45	28	1	0	0	0	42	153	48	180	99	60	833	671	8.95	5.91	2.38	10	11	9	4	0.0	0				
Kanawha																				10.89	7.80	2.58	23	11	10	4	0.0	0					
Lake Mills																				8.01	4.72	2.11	16	12	11	3	0.0	0					
Mason City	75.6	54.6	65.1	4.3	88	7	42	29	0	0	0	0	65	178	73	218	75	50	689	573	10.25	7.07	2.88	22	9	7	4	0.0	0				
Mason City Airport	75.8	54.5	65.2	4.3	89	6	42	30	0	0	0	0	71	177	89	213	85	54	693	610	11.03	7.76	2.67	7	12	11	4	0.0	0				
Nashua 2 SW																				14.91		7.55	22	11	8	4	0.0	0					
Northwood					83	21								196		242		41		520	9.37	5.91	4.13	22	12	9	3	0.0	0				
Osage	74.4	55.2	64.8	3.6	86	7	42	28	0	0	0	0	70	166	80	196	71	52	664	611	10.30	6.72	3.44	22	10	9	4	0.0	0				
Saint Ansgar																				10.54		3.64	22	9	9	4	0.0	0					
Swea City 4 W	75.7	53.8	64.8	4.2	92	22	42	27	1	0	0	0	79	179	95	214	80	47		590	5.86	2.62	2.08	16	11	8	1	0.0	0				
NORTHEAST DIVISION																																	
Cascade	77.2	56.9	67.1	5.3	91	7	45	27	1	0	0	0	34	156	43	182	105	60	827	670	6.33	2.75	1.50	23	11	6	3	0.0	0				
Cresco 1 NE	74.9	52.8	63.9	4.5	87	7	42	28	0	0	0	0	81	208		261	56	41		494	10.37	6.53	3.09	7	10	7	4	0.0	0				
Decorah	76.7	56.6	66.7	4.0	88	7	44	27	0	0	0	0	47	141	51	163	105	71	832	700	11.66	8.33	3.22	22	8	6	4	0.0	0				
Dubuque Lock & Dam 11	77.2	57.8	67.5	3.2	92	7	47	27	1	0	0	0	27	108	28	117	108	88	961	896	5.54	2.03	2.10	8	11	8	2	0.0	0				

SEPTEMBER 2016				MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																				IOWA CLIMATE REVIEW							
				TEMPERATURE (F)																PRECIPITATION (Inches)							SNOWFALL (Inches)				
								NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS								NUMBER OF DAYS			MAX ON				
				AVG	AVG	DEP	EXT	EXT	MAX	MAX	MIN	MIN	SEP	SEP	16-17	NORM	SEP	SEP	2016	NORM	DEP	EXT									
STATION	MAX	MIN	MEAN	NORM	MAX	DAY	MIN	DAY	90+	32-	32-	0-	2016	NORM	SEAS	SEAS	2016	NORM	SEAS	SEAS	TOTAL	NORM	DAY	DAY	0.01+	0.10+	1.00+	TOTAL	GND	DAY	
Dubuque Airport	75.4	56.6	66.0	4.0	89	6	41	27	0	0	0	0	51	151	58	178	87	61	773	637	5.17	1.71	2.02	7	11	9	1	0.0	0		
Elkader 6 SSW	75.6	53.4	64.5	3.3	90	7	40	27	1	0	0	0	73	171	93	206	65	57	588	633	5.55	2.37	2.22	16	12	7	2	0.0	0		
Fayette	75.3	54.7	65.0	4.0	89	7	43	28	0	0	0	0	58	174	67	212	66	53	697	583	8.77	5.15	2.56	22	10	9	4	0.0	0		
Guttenberg L & D 10	76.0	60.0	68.0	3.9	90	6	47	27	1	0	0	0	28	114	28	126	126	87	1016	858	5.51	2.44	1.56	23	12	7	3	0.0	0		
Ionia 2 W																					13.06		6.00	22	10	9	4	0.0	0		
Manchester #2	75.9	54.1	65.0	4.1	90	7	45	28	1	0	0	0	62	175	79	211	69	52	678	601	9.56	6.26	5.69	23	9	5	3	0.0	0		
New Hampton	74.3	54.0	64.2	3.6	88	7	42	28	0	0	0	0	79	178	91	217	62	47	602	536	11.17	7.83	3.80	22	9	8	4	0.0	0		
Oelwein 1 E	76.1	56.0	66.1	3.9	91	7	44	27	1	0	0	0	48	138	56	159	85	52	787	583	7.58	4.28	2.90	23	10	7	2	0.0	0		
Postville	74.5	54.3	64.4		87	7	45	27	0	0	0	0	63		72		52		665		10.78	7.36	3.48	22	13	11	3	0.0	0		
Stanley 4 W	75.3	54.0	64.7		90	7	42	28	1	0	0	0	75		91		70		692		7.98		3.49	23	8	6	3	0.0	0		
Strawberry Point																					6.72		3.09	23	12	5	3	0.0	0		
Tripoli	76.1	55.8	66.0	4.3	91	7	43	28	1	0	0	0	52	160	58	190	88	61	826	645	11.49	8.37	4.61	23	11	6	4	0.0	0		
Waterloo Airport	77.3	56.3	66.8	3.8	92	6	45	27	1	0	0	0	43	138	48	158	104	78	857	790	7.32	4.69	3.21	22	11	8	2	0.0	0		
WEST CENTRAL DIVISION																															
Audubon	77.3	55.2	66.3	3.9	89	25	42	30	0	0	0	0	67	148	84	174	110	70	795	728	7.85	4.68	3.19	16	8	7	3	0.0	0		
Battle Creek 3 NE	77.6	53.5	65.6		89	22	39	30	0	0	0	0	74		90		101		852		4.72		1.34	7	10	7	1	0.0	0		
Carroll	78.2	55.5	66.9	4.0	90	22	43	30	1	0	0	0	53	139	63	159	117	78	948	797	5.21	2.19	2.64	16	10	7	1	0.0	0		
Castana Exp. Farm	77.5	55.5	66.5	3.4	88	24	43	29	0	0	0	0	62	132	70	150	111	75	930	775	3.65	0.51	1.78	16	8	5	1	0.0	0		
Denison	76.5	55.1	65.8	1.2	88	6	43	30	0	0	0	0	72	111	90	122	104	99	854	935	5.82	2.78	2.30	16	10	6	3	0.0	0		
Guthrie Center	78.3	55.8	67.1	4.2	92	22	42	29	2	0	0	0	56	141	66	165	128	80	997	805	8.03	4.65	3.11	16	6	6	3	0.0	0		
Holly Springs 1 NW																					2.56		0.61	7	8	6	0	0.0	0		
Holstein	76.2	55.9	66.1		88	21	41	28	0	0	0	0	70		82		110		871		6.27	3.11	1.61	7	12	7	3	0.0	0		
Little Sioux 2 NW	78.6	55.0	66.8		90	7	40	29	2	0	0	0	62		76		125		992		10.20		5.34	16	9	8	2	0.0	0		
Logan	79.5	56.3	67.9	4.1	92	21	41	29	3	0	0	0	53	125	59	141	147	89	1109	918	6.64	3.30	3.37	16	9	5	2	0.0	0		
Mapleton #2	77.9	54.2	66.1	3.5	90	21	40	30	2	0	0	0	68	147	87	171	104	75	874	786	4.49	1.53	1.55	10	10	7	2	0.0	0		
Rockwell City	76.8	55.7	66.3	4.0	90	22	45	30	1	0	0	0	60	145	68	167	105	65	880	708	6.70	3.64	2.78	16	10	7	2	0.0	0		
Sac City	76.2	54.1	65.2	3.9	88	22	41	29	0	0	0	0	79	166	94	198	91	57	786	653	5.97	3.01	2.55	16	12	8	1	0.0	0		
Sioux City Airport	79.0	56.6	67.8	4.4	93	21	41	30	3	0	0	0	50	132	50	147	143	84	1165	861	2.78	-0.18	1.23	24	8	6	1	0.0	0		
CENTRAL DIVISION																															
Ames Airport	78.5	56.7	67.6	4.9	91	21	47	29	2	0	0	0	44	128	47	144	129	59	958	742	8.94		3.28	22	10	9	3	0.0	0		
Ames 8 WSW	80.1	58.0	69.1	4.3	92	21	46	29	4	0	0	0	35	102	36	115	166	98	1084	866	7.88	4.63	2.15	8	9	9	4	0.0	0		
Ames 5 SE	78.0	56.0	67.0	4.0	91	22	45	28	2	0	0	0	48	126		142	116	67		736	9.93	6.65	4.54	23	7	7	3	0.0	0		
Ankeny	79.9	58.8	69.4	5.0	93	22	48	29	3	0	0	0	32	113	38	124	168	97	1046	935	7.14	4.04	2.83	16	6	5	2	0.0	0		
Boone	78.0	56.1	67.1	4.1	91	22	42	27	2	0	0	0	53	136	62	157	124	75	882	733	6.98	3.84	2.39	8	10	7	3	0.0	0		
Brooklyn																					5.11	1.52	1.61	16	7	7	3	0.0	0		
Clutier																					8.74	5.05	3.45	8	9	9	3	0.0	0		
Des Moines Airport	80.8	61.9	71.4	5.8	93	21	50	27	4	0	0	0	21	94	21	100	217	113	1414	1052	5.50	2.45	1.50	24	9	7	2	0.0	0		
Des Moines Camp Dodge	78.7	59.7	69.2	4.1	92	21	45	26	2	0	0	0	36	96	37	104	169	99	1147	922	4.12	0.97	1.25	15	11	8	1	0.0	0		
Eldora	77.3	55.7	66.5	3.9	91	7	43	28	2	0	0	0	51	141	60	165	104	71	854	716	6.32	2.93	1.66	16	11	7	2	0.0	0		
Fort Dodge 5 NNW	75.2	54.9	65.1	2.6	90	22	43	30	1	0	0	0	78	145	89	167	87	70	700	747	7.59	4.57	3.80	16	10	8	2	0.0	0		
Gilman																					5.28	1.74	2.20	16	7	7	2	0.0	0		
Grinnell 3 SW	77.6	56.3	67.0	5.1	91	22	40	28	1	0	0	0	54	158	61	189	119	63	792	662	6.23	2.76	2.04	8	10	6	2	0.0	0		
Grundy Center	77.3	56.0	66.7	4.5	91	7	46	30	1	0	0	0	48	152	57	181	105	66	822	692	5.80	2.79	1.68	16	9	7	3	0.0	0		
Iowa Falls	76.5	55.2	65.9	3.7	90	22	45	28	1	0	0	0	55	146	66	168	88	62	749	695	6.91	3.62	2.31	16	9	8	4	0.0	0		
Marshalltown	78.4	56.7	67.6	5.3	92	22	49	30	2	0	0	0	42	148	47	171	124	69	909	747	7.20	3.50	2.11	16	10	9	2	0.0	0		
Marshalltown Airport	78.0	56.8	67.4	5.0	91	21	44	27	2	0	0	0	43	139	48	160	121	62	910	718	7.94		1.62	15	11	10	5	0.0	0		
Montezuma 1 W																					4.46	0.55	1.62	8	8	7	1	0.0	0		

SEPTEMBER 2016				MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																				IOWA CLIMATE REVIEW									
				TEMPERATURE (F)																PRECIPITATION (Inches)				SNOWFALL (Inches)									
								NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS								NUMBER OF DAYS				SNOWFALL (Inches)					
				AVG	AVG	DEP	EXT	EXT	MAX	MAX	MIN	MIN	SEP	SEP	16-17	NORM	SEP	SEP	2016	NORM	DEP	EXT											
STATION	MAX	MIN	MEAN	NORM	MAX	DAY	MIN	DAY	90+	32-	32-	0-	2016	NORM	SEAS	SEAS	2016	NORM	SEAS	SEAS	TOTAL	NORM	DAY	DAY	0.01+	0.10+	1.00+	TOTAL	GND	DAY			
Newton	79.5	57.9	68.7	5.1	93	22 +	48	30 +	3	0	0	0	30	122	36	136	147	80	1009	830	4.66	1.11	1.79	8	8	6	2	0.0	0				
Perry	80.5	57.2	68.9	5.6	92	25 +	45	30 +	7	0	0	0	40	133	44	151	161	82	1090	835	5.85	2.71	2.57	16	10	6	2	0.0	0				
Toledo 3 N	77.7	55.9	66.8	4.3	91	7	46	28 +	1	0	0	0	47	144	56	170	108	69	814	700	7.07	3.85	2.16	8	8	8	2	0.0	0				
Webster City	77.1	54.3	65.7	3.7	92	22	44	29	1	0	0	0	61	152	74	176	89	62	722	691	7.52	4.31	2.34	16	10	7	5	0.0	0				
Zearing																					9.26	5.99	3.76	16	8	6	3	0.0	0				
EAST CENTRAL DIVISION																																	
Anamosa 3 SSW	77.7	56.1	66.9	5.2	89	7	44	28	0	0	0	0	37	161	46	196	102	60	763	626	6.02	2.61	2.09	8	12	5	3	0.0	0				
Belle Plaine	79.3	56.4	67.9	5.5	91	7	41	27	2	0	0	0	39	145	45	167	132	67	906	730	5.53	2.07	1.85	23	10	6	3	0.0	0				
Bellevue Lock & Dam 12	79.3	57.5	68.4	5.3	93	7	45	28	4	0	0	0	27	132	32	149	135	77	988	778	3.79	0.44	1.44	8	9	5	1	0.0	0				
Cedar Rapids Airport	78.4	57.8	68.1	5.3	91	6	44	27	1	0	0	0	35	138	39	157	136	72	947	740	6.92		2.65	23	10	6	4	0.0	0				
Cedar Rapids #1	81.1	58.0	69.6	4.5	93	6	46	27	4	0	0	0	22	97	22	107	165	102	1154	935	6.80	3.15	2.10	8	8	8	4	0.0	0				
Clinton #1	79.3	60.4	69.9	4.8	91	6	48	27	1	0	0	0	20	97	20	106	173	101	1163	942	4.67	1.66	3.00	8	6	4	1	0.0	0				
Coggon	77.0	55.2	66.1		90	7	45	28	1	0	0	0	51		61		90		757		7.75		2.70	23	7	6	3	0.0	0				
Davenport Airport	80.1	58.7	69.4	6.1	92	6	47	27	1	0	0	0	26	121	30	135	167	70	1019	774	2.89		1.81	7	7	3	1	0.0	0				
De Witt																					5.33	2.32	4.54	8	6	2	1	0.0	0				
Iowa City	80.6	57.4	69.0	2.9	92	7	46	28	2	0	0	0	22	83	27	89	151	116	1047	1051	3.25	0.08	1.64	8	4	4	2	0.0	0				
Iowa City Airport	80.3	59.8	70.1	5.9	92	6	46	27	2	0	0	0	20	104	22	112	180	80	1156	902	2.83		1.27	7	7	4	1	0.0	0				
Le Claire L & D 14	80.1	60.9	70.5	4.7	90	19 +	50	29 +	2	0	0	0	16	87	16	94	189	109	1222	1008	2.60	-0.52	2.10	8	8	3	1	0.0	0				
Lowden	79.8	57.7	68.8	6.2	93	6	46	27	2	0	0	0	31	126	35	144	152	52	1040	690	5.13	1.98	1.95	8	9	6	2	0.0	0				
Maquoketa 4 W	78.8	55.5	67.2	5.8	91	7	43	27	2	0	0	0	41	162	52	195	113	54	833	612	2.34	-1.07	1.37	8	7	5	1	0.0	0				
Monticello																					5.97		1.74	8	9	6	3	0.0	0				
Muscatine	81.5	59.1	70.3	4.1	93	7	45	28 +	3	0	0	0	20	81	21	87	186	119	1195	1085	1.72	-1.75	1.37	8	5	2	1	0.0	0				
Muscatine 2 N																					1.74		1.38	8	5	2	1	0.0	0				
Swisher																					6.80		2.91	23	8	4	2	0.0	0				
Vinton	76.5	55.4	66.0	2.3	89	7	43	27	0	0	0	0	59	122	69	139	96	83	833	795	7.72	4.19	2.28	10	12	6	4	0.0	0				
Williamsburg 1 E	80.4	57.1	68.8	5.8	92	7	45	28 +	3	0	0	0	29	135	33	156	148	75	1029	760	4.31	0.64	1.60	23	7	6	2	0.0	0				
SOUTHWEST DIVISION																																	
Atlantic 1 NE	80.5	56.2	68.4	5.0	94	22	41	30	5	0	0	0	45	133	56	154	153	86	970	840	6.22	2.77	2.49	16	8	6	2	0.0	0				
Bedford	79.6	59.1	69.4	4.6	91	23 +	45	26	5	0	0	0	37	104	46	112	175	98	1132	957	3.50	-0.10	1.05	13	6	6	1	0.0	0				
Clarinda	78.9	57.0	68.0	4.4	90	21	43	29 +	1	0	0	0	50	127	61	143	145	83	890	837	3.77	0.28	1.25	14	6	6	2	0.0	0				
Glenwood	80.1	58.2	69.2	4.2	91	21 +	44	30	4	0	0	0	41	67	46	73	170	66	1136	855	4.29	1.30	1.86	25	6	6	1	0.0	0				
Greenfield	78.3	57.8	68.1	2.3	90	22	44	26	1	0	0	0	45	90	53	99	143	112	1002	981	5.89	2.25	2.26	16	7	6	2	0.0	0				
Hastings 4 NE																					4.69		1.50	25	7	7	2	0.0	0				
Massena																					5.51		2.40	16	7	5	3	0.0	0				
Oakland	79.1	57.2	68.2	3.9	91	21	45	30 +	2	0	0	0	48	113	58	129	149	93	1065	888	5.94	2.60	2.21	16	8	6	2	0.0	0				
Randolph																					4.23	1.07	1.79	13	7	6	1	0.0	0				
Red Oak	80.6	58.7	69.7	4.6	92	21	44	26	4	0	0	0	34	103	38	114	183	108	1187	1025	4.88	1.39	1.13	8	6	6	2	0.0	0				
Shenandoah	81.4	59.2	70.3	4.3	93	21	44	30	5	0	0	0	30	95	35	101	198	125	1294	1118	4.13	0.91	1.56	13	7	5	2	0.0	0				
Sidney 1 SSE	80.0	57.9	69.0	3.1	91	21	45	27 +	4	0	0	0	41	91	41	99	166	117	465	1043	5.26	2.05	1.81	13	6	6	2	0.0	0				
Underwood																					5.67		2.33	16	6	6	2	0.0	0				
SOUTH CENTRAL DIVISION																																	
Albia 3 NNE	78.4	58.0	68.2	3.8	90	22	44	28	1	0	0	0	39	109	46	122	140	92		884	1.25	-2.70	0.45	10	7	3	0	0.0	0				
Allerton	79.0	57.7	68.4	3.9	90	22 +	45	27	2	0	0	0	39	100	47	112	148	85	1011	862	3.28	-1.29	1.34	8	7	5	1	0.0	0				
Beaconsfield	78.0	57.8	67.9	3.8	89	22	45	27 +	0	0	0	0	44	116	53	130	139	89	939	837	3.30	-0.62	1.26	25	6	6	1	0.0	0				
Centerville	80.4	57.1	68.8	4.3	90	7	43	27	1	0	0	0	38	110	43	119	157	96	1078	927	1.47	-2.34	0.60	8	5	4	0	0.0	0				



SEPTEMBER 2016				MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA																				PRECIPITATION (Inches)				IOWA CLIMATE REVIEW			
				TEMPERATURE (F)																											
								NUMBER OF DAYS				HEATING DEGREE DAYS				COOLING DEGREE DAYS															
																				NUMBER OF DAYS				SNOWFALL (Inches)							



SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																									IOWA CLIMATE REVIEW							
STATION	OBS TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	DAY OF MONTH				18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
NORTHWEST DIVISION																																			
Cherokee	8	MAX	80	78	75	76	77	86	82	78	79	67	72	78	77	62	71	79	76	74	82	84	88	90	82	88	86	65	71	73	62	70		76.9	
		MIN	52	52	55	58	61	65	65	56	60	50	51	53	54	44	46	59	53	53	53	51	58	66	65	67	54	45	41	42	40	40		53.6	
Emmetsburg	8	MAX	80	78	75	77	80	87	82	78	79	70	72	81	81	64	72	78	76	72	83	82	87	93	81	82	85	64	70	72	62	69		77.1	
		MIN	55	52	57	60	63	65	67	56	60	52	52	54	54	46	47	58	53	52	56	54	54	64	65	67	56	45	45	47	47	45		54.9	
Estherville Airport	24	MAX	75	73	75	80	82	77	77	77	67	71	78	77	62	71	71	75	69	82	81	85	91	79	81	83	66	69	72	62	66	71		74.8	
		MIN	51	47	55	60	64	67	65	54	53	50	48	56	47	43	54	56	52	52	53	50	70	63	63	66	51	44	42	44	43	40		53.4	
Estherville 4 E	7	MAX	77	74	73	75	80	82	76	77	78	69	71	78	77	62	71	71	76	70	82	81	85	91	79	81	84	64	68	72	61	66		75.0	
		MIN	53	49	51	57	60	65	65	55	54	51	49	51	52	43	44	59	53	52	52	51	52	63	63	65	56	45	42	43	42	40		52.6	
Hawarden	7	MAX	83	81	77	80	78	83	79	79	80	66	74	81	73	66	70	70	76	78	85	85	88	90	82	89	85	68	73	75	65	71		77.7	
		MIN	53	53	53	59	65	68	65	55	55	50	50	53	49	42	42	59	54	54	54	54	54	64	64	66	52	44	44	41	40	39		53.2	
Le Mars	7	MAX	81	78	76	77	78	84	80	78	79	67	73	79	75	64	71	78	76	76	83	85	88	89	81	89	87	68	72	74	63	71		77.3	
		MIN	53	54	54	58	62	66	65	56	57	50	50	51	50	42	42	60	54	54	56	55	56	66	65	66	53	44	44	42	40	41		53.5	
Pocahontas	8	MAX	79	78	76	76	80	87	84	76	82	73	72	79	82	64	75	82	75	72	83	82	87	92	84	89	86	64	70	72	62	68		77.7	
		MIN	55	49	55	58	63	64	66	60	60	52	48	56	56	47	49	59	53	51	59	54	55	64	64	66	57	44	45	47	44	45		54.8	
Primghar	16	MAX	78	76	76	77	79	81	76	77	78	70	78	75	75	71	71	74	74	81	82	86	88	88	87	87	75	71	71	71	67	71		77.0	
		MIN	59	55	60	62	65	71	66	57	59	50	50	58	51	46	59	60	53	58	63	59	72	65	65	67	52	42	42	45	46	46		56.8	
Rock Rapids	8	MAX	81	82	77	78	75	81	78	81	80	69	73	80	74	60	73	66	75	76	83	84	88	90	85	89	85	66	70	73	59	72		76.8	
		MIN	54	54	56	59	59	69	68	57	57	51	51	53	49	45	45	59	56	55	54	55	57	62	66	67	53	42	43	43	41	41		54.0	
Sanborn	8	MAX	79	79	75	76	77	81	75	77	78	66	70	78	73	60	71	68	74	72	81	82	87	88	83	88	86	63	69	71	60	68		75.2	
		MIN	58	54	54	60	62	66	66	55	55	49	49	54	49	44	44	59	53	56	56	60	59	65	64	67	52	41	42	43	43	42		54.0	
Sheldon	7	MAX	81	78	76	77	76	80	75	78	78	67	71	77	73	61	71	66	71	73	81	83	85	88	82	86	85	66	69	71	60	69		75.1	
		MIN	50	50	54	57	60	66	65	52	52	49	49	51	47	41	40	59	52	52	55	51	53	66	65	66	50	40	41	41	38	39		51.7	
Sibley	7	MAX	81	79	78	77	76	79	77	79	79	67	71	78	71	60	71	65	74	73	82	82	86	90	80	87	85	62	69	72	58	68		75.2	
		MIN	54	52	52	52	61	66	66	55	54	49	50	59	48	44	44	58	54	53	53	54	53	63	63	64	51	42	40	40	44	44		52.7	
Sioux Center 2 SE	16	MAX	79	78	77	79	81	82	78	78	78	72	79	79	70	71	70	75	75	81	83	88	90	88	88	88	72	71	74	75	67	72		77.9	
		MIN	52	52	56	62	65	70	65	57	59	49	50	56	49	42	61	58	53	54	58	51	69	65	67	67	51	42	42	43	42	43		55.0	
Sioux Rapids 4 E	22	MAX	74	72	74	76	83	80	75	75	67	70	76	78	63	71	77	75	70	81	82	87	89	84	88	85	66	69	71	63	67	71		75.3	
		MIN	55	50	55	60	64	67	66	55	55	51	49	56	53	44	59	57	52	53	58	56	70	63	65	66	52	44	43	46	45	45		55.1	
Spencer Airport	24	MAX	78	77	78	81	84	78	79	79	68	73	80	78	63	72	74	77	73	83	83	87	92	84	88	85	68	71	72	63	69	73		77.0	
		MIN	49	49	57	63	66	68	63	54	52	51	50	57	50	46	61	56	53	51	54	50	70	65	65	67	49	41	39	46	38	38		53.9	
Spencer 1 N	24	MAX	76	77	77	79	84	78	78	79	68	72	79	76	62	73	74	77	73	82	81	87	91	84	88	85	67	69	71	63	67	72		76.3	
		MIN	52	49	56	64	65	66	66	56	54	51	51	58	49	44	57	59	54	51	55	50	70	65	64	67	49	43	42	45	44	42		54.6	
Spirit Lake 4 W	24	MAX	75	74	75	77	80	77	77	79	69	72	78	75	61	71	70	75	73	81	82	85	90	78	82	83	68	70	72	62	66	71		74.9	
		MIN	57	58	60	62	64	67	66	56	54	51	54	60	48	46	59	58	54	56	61	60	71	65	64	67	51	45	42	44	42	45		56.2	
Storm Lake	8	MAX	77	77	74	75	77	84	84	76	79	70	71	77	78	62	71	78	76	72	81	82	86	87	80	86	83	67	70	71	63	68		76.1	
		MIN	58	56	54	57	59	64	69	60	59	56	51	56	55	53	47	59	53	54	59	57	60	64	64	65	54	45	44	47	44	45		55.6	
NORTH CENTRAL DIVISION																																			
Algona 3 W	6	MAX	78	78	74	75	78	86	82	76	79	72	72	78	81	64	72	81	76	69	83	82	87	94	78	80	84	65	70	72	60	67		76.4	
		MIN	54	53	53	58	60	64	67	60	58	52	49	49	56	45	45	59	54	52	53	55	54	64	64	66	60	46	44	46	44	44		54.3	

SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																									IOWA CLIMATE REVIEW						
STATION	OBS TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
Allison	7	MAX MIN	74 55	75 55	75 54	75 55	78 60	87 65	90 69	76 68	81 63	72 55	71 52	77 51	83 55	68 50	73 53	80 57	74 58	71 54	84 54	78 51	85 51	84 63	70 63	75 63	80 63	68 49	69 43	71 43	63 47	72 47		76.0 55.5
Britt	7	MAX MIN	M M	M M	M M	M M	M M	M M	M M	M M	M M	M M	M M	M M	80 51	M M	M M	80 M	79 50	M M	M M	M M	84 53	M M	M M	M M	80 64	M M	M M	67 45	M M	M M		M M
Charles City	22	MAX MIN	73 53	73 51	74 53	77 59	86 64	89 72	77 67	78 62	70 59	69 54	76 49	82 53	72 58	72 50	79 54	74 60	68 55	83 52	77 58	84 50	81 65	71 64	68 64	77 63	68 56	67 48	68 44	62 48	71 47	65 48		74.4 56.0
Clarion	7	MAX MIN	79 54	77 53	75 53	76 56	79 60	89 67	90 68	76 63	82 62	73 52	73 50	79 50	84 58	66 55	74 53	82 59	75 55	70 54	85 55	81 55	87 56	94 63	78 64	80 66	85 65	67 46	70 40	72 40	63 48	73 47		77.8 55.6
Dakota City	8	MAX MIN	78 52	76 49	75 50	76 58	79 63	87 65	87 66	75 60	75 60	73 52	73 52	77 53	82 55	64 49	73 48	81 58	77 54	70 52	83 56	81 52	87 55	92 64	81 63	81 66	85 58	66 47	70 46	72 46	60 43	69 43		76.8 54.5
Forest City 2 NNE	7	MAX MIN	76 55	74 53	74 51	74 55	74 57	85 62	84 67	76 62	78 61	72 52	71 52	77 52	82 52	63 48	71 48	78 58	75 50	69 53	83 56	81 55	83 56	80 58	74 63	69 63	80 64	64 47	67 42	69 42	62 45	69 45		74.5 54.1
Hampton	7	MAX MIN	81 52	77 49	76 52	76 54	80 58	88 65	90 68	76 66	83 61	73 54	74 54	78 56	85 58	71 54	76 53	82 57	76 56	73 52	84 52	80 51	87 51	86 63	73 64	78 65	84 65	68 48	71 45	73 45	63 48	74 47		77.9 55.4
Mason City	7	MAX MIN	78 52	74 51	74 52	75 54	78 58	87 64	88 66	76 65	80 59	71 54	72 52	78 53	84 55	67 50	73 50	81 57	76 55	70 52	84 55	79 52	84 52	82 62	72 63	68 64	80 64	68 48	67 44	70 44	62 42	69 48		75.6 54.6
Mason City Airport	24	MAX MIN	75 50	74 47	76 52	79 58	87 66	89 70	76 66	79 58	72 60	71 52	78 50	84 55	67 52	73 48	81 55	76 59	70 51	83 51	81 55	86 49	86 66	73 63	69 65	81 64	68 51	68 47	69 42	63 47	72 44	69 42		75.8 54.5
Northwood	7	MAX MIN	75 50	73 50	72 50	73 56	76 58	82 63	81 66	73 61	74 58	70 52	68 48	74 48	81 53	63 48	69 48	75 56	73 53	66 51	81 52	77 52	83 52	82 61	69 61	67 62	76 59	M M	65 43	M M	M M	M M		M M
Osage	7	MAX MIN	79 54	74 52	74 54	73 56	78 58	85 65	86 67	75 63	78 62	72 53	69 51	76 54	82 57	66 50	72 50	78 58	75 57	67 54	83 55	77 52	84 57	81 62	68 62	71 63	78 63	66 46	67 42	66 42	62 48	71 48		74.4 55.2
Swea City 4 W	7	MAX MIN	78 54	75 49	74 53	76 57	79 61	85 65	79 66	77 56	79 56	71 52	72 51	78 53	81 55	63 46	72 46	75 59	77 53	69 52	82 53	81 54	86 54	92 63	78 63	80 64	83 59	64 46	69 42	71 43	60 44	66 45		75.7 53.8
NORTHEAST DIVISION																																		
Cascade	7	MAX MIN	78 55	76 51	77 52	76 52	78 59	88 65	91 72	79 69	81 61	80 59	71 49	78 51	82 53	73 56	75 56	81 57	74 59	76 51	84 58	88 59	85 61	79 65	72 65	70 63	72 65	79 51	68 45	69 46	63 50	73 51		77.2 56.9
Cresco 1 NE	7	MAX MIN	78 49	74 47	76 47	76 54	78 58	87 66	87 67	75 63	80 55	70 53	71 47	76 53	82 55	67 48	74 48	78 51	75 55	68 49	83 57	78 47	83 50	80 62	76 61	66 61	70 62	70 45	67 42	66 42	64 45	72 45		74.9 52.8
Decorah	16	MAX MIN	80 52	75 49	76 51	77 55	87 65	88 74	88 69	79 66	79 58	71 56	76 48	82 56	81 63	72 51	78 52	77 63	76 57	83 50	81 64	85 50	80 61	78 64	71 64	69 64	73 60	67 48	67 44	64 48	71 49	71 47		76.7 56.6
Dubuque Lock & Dam 11	6	MAX MIN	78 60	75 56	75 56	79 55	77 61	89 61	92 73	80 70	81 62	79 60	71 53	79 53	82 58	72 58	73 57	82 57	75 60	76 55	83 55	86 58	84 57	76 62	74 64	71 63	72 64	80 52	68 47	67 48	67 48	72 52		77.2 57.8
Dubuque Airport	24	MAX MIN	74 56	75 53	74 55	77 59	85 63	89 71	81 69	83 60	77 63	70 51	74 48	79 52	74 61	73 55	78 57	74 60	76 54	80 50	86 56	82 60	76 63	73 64	70 63	70 63	80 57	68 46	69 41	62 46	72 50	60 53		75.4 56.6
Elkader 6 SSW	7	MAX MIN	77 50	75 47	76 48	76 50	78 58	87 64	90 70	75 68	81 56	71 57	71 45	77 45	82 52	69 52	74 50	80 52	73 53	73 48	83 49	79 55	84 55	77 64	73 64	68 63	71 64	74 49	68 40	68 44	64 45	73 46		75.6 53.4
Fayette	7	MAX MIN	78 54	76 51	76 51	77 53	78 59	87 63	89 68	74 67	80 59	70 55	71 48	76 49	81 53	68 53	74 52	80 60	73 57	71 51	83 54	78 51	83 51	78 63	73 63	66 62	75 63	72 47	68 43	69 43	63 49	73 49		75.3 54.7

SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																									IOWA CLIMATE REVIEW							
	OBS		DAY OF MONTH																																
STATION	TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG	
Guttenberg L & D 10	24	MAX	75	77	76	79	89	90	82	81	71	72	78	82	72	74	78	75	74	84	82	83	77	77	70	71	77	69	69	62	71	63		76.0	
		MIN	61	56	56	61	67	75	71	66	63	57	53	57	63	60	58	66	59	54	63	59	65	64	66	64	58	50	47	50	54	56		60.0	
Manchester #2	7	MAX	77	74	75	76	77	87	90	78	81	74	71	76	81	69	74	80	71	73	83	84	83	84	70	69	73	74	68	69	63	72		75.9	
		MIN	51	47	48	53	59	65	71	68	57	57	45	46	54	55	54	55	55	48	48	49	50	64	64	62	63	48	45	45	48	50		54.1	
New Hampton	8	MAX	75	73	74	74	76	86	88	74	79	70	70	79	81	67	72	80	74	66	83	76	85	79	70	66	77	68	67	67	62	71		74.3	
		MIN	55	51	51	57	59	65	67	65	60	53	48	48	53	50	50	57	54	50	53	50	51	62	62	61	62	46	42	42	48	48		54.0	
Oelwein 1 E	7	MAX	76	76	79	77	79	87	91	77	80	70	74	77	83	68	75	82	72	69	84	80	86	79	72	69	76	71	68	69	64	73		76.1	
		MIN	55	52	55	57	58	60	69	69	62	54	49	50	54	54	55	59	57	58	52	52	60	63	63	62	66	47	44	47	48	49		56.0	
Postville	7	MAX	78	74	75	75	74	87	87	74	80	69	71	75	80	66	73	78	74	71	82	82	82	77	73	67	70	72	68	68	63	71		74.5	
		MIN	52	48	48	53	56	61	67	66	59	55	50	51	52	51	52	55	59	51	54	49	52	62	63	63	63	48	45	47	48	48		54.3	
Stanley 4 W	7	MAX	75	73	76	76	77	87	90	75	79	72	70	76	82	67	74	82	72	72	84	80	85	79	70	69	76	71	66	69	62	72		75.3	
		MIN	53	48	48	58	59	62	69	65	57	54	45	46	54	52	53	59	56	46	53	51	53	63	63	62	63	47	42	42	48	48		54.0	
Tripoli	7	MAX	78	74	76	76	79	89	91	76	82	69	72	77	83	69	74	81	74	69	85	77	87	81	69	68	79	72	69	70	65	73		76.1	
		MIN	54	53	53	55	60	65	69	69	62	54	51	51	55	53	53	60	58	53	56	50	55	64	63	62	64	48	43	43	49	49		55.8	
Waterloo Airport	24	MAX	76	76	76	80	89	92	79	83	77	73	77	83	71	76	81	73	72	84	82	86	84	74	77	81	72	70	72	64	74	66		77.3	
		MIN	54	50	51	62	66	73	69	61	61	52	48	56	59	54	55	61	52	50	53	48	69	64	64	64	54	49	45	48	48	49		56.3	
WEST CENTRAL DIVISION																																			
Audubon	8	MAX	78	76	75	76	77	86	88	77	80	75	71	76	82	63	70	82	73	74	81	80	88	89	84	87	89	66	71	73	64	68		77.3	
		MIN	51	51	53	57	63	69	66	64	66	51	49	52	57	55	54	58	53	51	55	51	56	70	66	61	58	46	43	43	45	42		55.2	
Battle Creek 3 NE	8	MAX	79	78	77	78	77	88	86	80	81	72	72	80	78	60	69	76	76	74	81	82	89	89	81	88	86	68	73	75	64	70		77.6	
		MIN	50	49	53	61	64	67	65	57	58	51	48	52	56	51	51	50	51	59	59	49	52	68	66	65	53	41	40	41	40	39		53.5	
Carroll	7	MAX	79	78	77	77	80	88	88	80	83	74	73	78	83	62	73	82	75	74	83	79	88	90	83	87	87	65	72	75	65	68		78.2	
		MIN	52	51	53	55	61	68	67	63	63	52	52	54	54	53	53	58	54	54	60	51	54	71	65	66	59	46	45	44	44	43		55.5	
Castana Exp. Farm	8	MAX	78	78	76	77	77	88	86	79	81	73	72	78	79	59	69	80	76	77	82	82	88	88	83	88	84	66	73	76	61	70		77.5	
		MIN	56	53	53	57	64	68	65	61	61	51	51	54	57	53	53	59	52	53	59	56	58	66	66	66	54	44	44	43	43	44		55.5	
Denison	7	MAX	78	77	75	75	78	88	85	79	82	72	70	77	81	61	69	79	74	73	82	79	87	87	82	86	84	65	69	72	60	69		76.5	
		MIN	55	53	53	55	61	68	64	61	61	50	50	54	56	51	51	58	53	53	59	56	56	69	64	65	55	46	46	43	43	43		55.1	
Guthrie Center	8	MAX	79	77	75	76	78	87	91	77	82	79	71	76	83	66	71	82	73	74	83	86	87	92	85	86	87	67	72	74	63	71		78.3	
		MIN	52	52	50	50	62	74	69	65	67	54	48	55	61	55	57	59	54	51	55	51	54	69	68	61	58	45	43	45	42	47		55.8	
Holstein	22	MAX	76	75	77	77	85	83	76	78	71	71	78	78	64	69	79	75	73	82	81	87	88	80	86	85	68	70	73	60	68	72		76.2	
		MIN	59	53	53	61	64	72	65	57	55	49	51	59	53	48	59	56	52	54	62	58	72	64	66	66	51	43	45	41	42	47		55.9	
Little Sioux 2 NW	7	MAX	81	78	75	78	78	90	90	79	80	77	74	81	80	59	69	83	76	76	84	82	89	88	85	88	84	69	74	73	68	71		78.6	
		MIN	54	52	52	55	63	71	68	63	63	50	50	50	58	53	53	62	53	53	54	57	57	65	65	69	55	42	42	41	40	41		55.0	
Logan	8	MAX	79	78	78	78	80	90	89	82	83	77	74	80	83	59	70	82	77	80	85	81	92	89	89	91	86	68	75	77	63	71		79.5	
		MIN	55	55	57	57	65	70	68	63	65	52	51	53	59	55	56	60	52	54	63	53	53	71	67	67	56	42	43	44	41	43		56.3	
Mapleton #2	7	MAX	79	78	78	79	78	90	84	80	82	72	72	80	79	59	69	81	76	75	83	82	90	88	82	89	85	67	72	74	63	70		77.9	
		MIN	51	52	54	57	62	66	64	60	59	51	51	53	57	52	52	59	52	53	57	51	51	66	66	65	56	44	44	40	40	40		54.2	
Rockwell City	7	MAX	78	75	74	75	79	87	88	77	79	71	72	77	81	63	72	79	75	72	82	79	87	90	81	87	85	65	71	74	62	67		76.8	
		MIN	56	52	52	56	60	67	67	61	61	54	51	53	56	53	53	62	56	53	54	55	55	66	66	65	60	46	45	45	46	45		55.7	

SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																								IOWA CLIMATE REVIEW								
STATION	OBS TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	DAY OF MONTH				18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
Sac City	7	MAX	78	75	74	76	79	85	84	77	78	67	71	77	80	61	70	79	74	73	82	80	87	88	81	87	85	63	71	73	64	67		76.2	
		MIN	54	50	54	58	62	66	65	60	61	51	50	54	55	51	51	57	53	53	54	52	54	64	64	65	55	43	41	43	41	43		54.1	
Sioux City Airport	24	MAX	81	77	79	77	87	80	79	81	71	75	81	78	64	68	80	78	79	85	87	90	93	83	91	87	71	75	77	66	73	76		79.0	
		MIN	55	54	59	64	70	73	67	56	54	52	50	59	56	52	63	57	52	54	56	54	72	69	68	67	49	45	45	44	42	41		56.6	
CENTRAL DIVISION																																			
Ames Airport	24	MAX	78	75	76	80	88	91	79	84	80	74	77	83	70	75	82	73	71	84	86	87	91	82	87	85	69	73	74	62	73	65		78.5	
		MIN	52	50	54	58	63	71	70	64	63	52	47	54	59	57	59	57	53	51	56	51	68	65	68	66	53	48	47	50	47	48		56.7	
Ames 8 WSW	16	MAX	78	75	75	79	88	90	90	80	82	71	76	82	82	73	82	82	72	83	83	86	92	90	86	85	84	71	73	73	70	71		80.1	
		MIN	55	52	56	59	64	73	69	67	65	53	50	54	61	55	61	60	56	52	61	57	72	64	67	66	57	46	46	48	46	49		58.0	
Ames 5 SE	6	MAX	80	77	75	75	78	86	91	76	82	78	72	76	82	69	75	81	73	70	83	86	86	91	82	85	85	67	72	73	60	73		78.0	
		MIN	53	51	55	55	59	64	72	65	65	53	51	50	55	57	56	60	57	52	52	53	52	70	64	65	65	47	45	45	47	46		56.0	
Ankeny	8	MAX	80	78	76	78	80	89	92	77	84	81	74	77	83	70	76	84	74	75	85	90	88	93	86	89	88	68	73	75	60	74		79.9	
		MIN	55	53	57	60	60	68	75	68	69	55	49	57	63	58	60	60	60	52	55	55	60	69	68	67	65	49	49	49	48	50		58.8	
Boone	8	MAX	79	77	76	76	80	88	90	73	82	79	73	77	82	69	75	82	73	70	83	83	87	91	83	87	85	65	71	73	59	72		78.0	
		MIN	54	53	56	58	60	69	69	65	62	52	50	52	59	55	56	59	55	52	52	54	62	64	64	66	62	44	42	43	46	47		56.1	
Des Moines Airport	24	MAX	80	78	79	82	90	93	81	85	83	75	78	84	73	76	85	75	78	86	90	89	93	88	89	89	71	74	76	61	76	67		80.8	
		MIN	60	58	61	64	68	76	73	72	66	57	54	60	62	61	63	62	60	58	65	61	75	71	71	69	56	50	50	51	51	53		61.9	
Des Moines Camp Dodge	24	MAX	77	75	76	82	88	91	79	83	80	74	77	83	72	74	83	73	74	84	87	86	92	83	87	86	69	73	76	60	74	64		78.7	
		MIN	58	57	59	64	68	76	71	67	62	53	54	59	59	58	61	61	58	57	63	58	75	67	68	67	51	45	47	49	48	51		59.7	
Eldora	7	MAX	78	75	75	75	79	88	91	76	82	77	72	77	83	69	75	82	73	71	83	80	86	90	78	80	84	68	70	71	60	72		77.3	
		MIN	54	54	54	55	59	65	72	66	63	52	49	50	54	54	55	59	56	53	53	54	56	63	63	64	65	46	43	43	48	48		55.7	
Fort Dodge 5 NNW	7	MAX	77	74	72	73	77	86	86	75	77	72	71	75	80	64	71	79	73	68	80	78	82	90	81	81	84	66	67	71	59	67		75.2	
		MIN	54	50	50	57	60	65	67	61	61	52	52	53	58	51	51	58	53	51	53	53	53	64	64	66	63	46	47	47	44	43		54.9	
Grinnell 3 SW	7	MAX	78	75	74	74	77	86	89	78	83	78	72	75	83	70	74	81	71	74	81	87	86	91	83	77	83	70	71	73	61	73		77.6	
		MIN	52	53	52	54	61	65	73	67	66	56	48	49	54	59	58	60	56	50	54	53	53	71	69	67	67	47	40	40	48	46		56.3	
Grundy Center	8	MAX	77	75	75	75	77	87	91	75	82	77	72	77	83	70	79	82	73	71	83	82	86	87	75	80	83	70	69	71	62	73		77.3	
		MIN	53	50	51	55	62	69	71	68	61	54	51	54	56	54	55	59	58	51	57	50	50	64	63	64	67	49	46	47	46	46		56.0	
Iowa Falls	7	MAX	78	76	75	74	77	87	89	76	82	74	73	76	82	69	75	80	73	71	82	77	85	90	71	79	83	67	70	71	62	72		76.5	
		MIN	52	51	51	54	59	65	68	67	61	53	48	49	54	54	54	59	56	52	58	51	51	63	63	65	65	47	45	45	48	48		55.2	
Marshalltown	7	MAX	78	76	76	77	79	87	90	77	83	79	72	76	83	70	76	83	74	73	83	89	87	92	82	80	86	69	71	72	61	72		78.4	
		MIN	53	50	51	55	59	67	74	66	63	55	49	49	58	56	56	61	59	53	54	53	53	65	64	66	66	49	49	49	49	49		56.7	
Marshalltown Airport	24	MAX	77	75	76	79	88	91	79	84	79	73	76	83	71	75	82	73	74	83	87	85	91	81	79	84	70	71	73	61	74	65		78.0	
		MIN	52	51	52	59	66	73	68	63	63	54	49	53	59	56	58	60	54	51	57	51	69	65	66	65	52	47	44	50	49	49		56.8	
Newton	7	MAX	79	77	76	76	80	89	93	76	84	81	73	78	83	70	76	83	74	76	84	91	89	93	85	82	87	69	72	74	61	73		79.5	
		MIN	55	55	54	54	60	64	72	68	68	54	53	54	56	58	58	59	60	53	58	58	58	67	67	66	66	49	49	49	48	48		57.9	
Perry	7	MAX	81	78	78	78	82	90	91	91	85	79	74	79	85	68	75	84	73	73	84	86	90	92	86	92	92	68	73	75	62	71		80.5	
		MIN	53	53	58	59	61	69	72	67	67	54	52	53	60	57	57	61	57	54	51	54	54	66	66	66	64	48	45	46	46	45		57.2	
Toledo 3 N	7	MAX	76	75	76	76	78	88	91	75	84	74	71	77	82	68	75	82	71	74	83	89	86	86	82	80	84	69	71	72	62	73		77.7	
		MIN	52	50	50	53	58	64	72	64	63	54	51	51	55	56	56	58	59	51	51	53	53	70	65	65	65	50	46	46	48	48		55.9	

SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW			
STATION	OBS TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
			DAY OF MONTH																															
Webster City	7	MAX	78	76	75	75	79	87	89	75	82	75	73	76	82	68	74	81	74	70	82	79	86	92	80	80	84	67	70	72	60	72		77.1
		MIN	52	50	51	55	58	63	67	64	61	54	47	50	54	54	55	59	54	51	52	48	52	63	63	63	64	47	45	45	44	45		54.3
EAST CENTRAL DIVISION																																		
Anamosa 3 SSW	6	MAX	79	76	76	76	77	86	89	83	83	83	71	75	79	75	76	80	73	76	82	86	86	79	77	75	77	78	68	71	64	74		77.7
		MIN	55	51	52	53	60	61	71	68	62	57	49	51	52	54	54	57	57	50	51	59	60	66	66	63	65	49	47	44	49	50		56.1
Belle Plaine	7	MAX	80	79	78	78	80	88	91	80	85	82	74	77	82	72	76	83	73	77	84	90	87	85	80	80	83	74	72	70	62	76		79.3
		MIN	53	52	50	59	62	64	73	64	62	57	47	52	55	58	56	60	55	50	52	55	58	70	67	66	65	49	41	42	48	50		56.4
Bellevue Lock & Dam 12	6	MAX	79	74	79	77	79	90	93	86	87	85	73	79	81	76	78	80	82	79	85	90	90	77	74	72	73	84	72	70	63	71		79.3
		MIN	56	55	52	52	57	66	75	70	61	61	51	51	54	59	56	56	59	53	53	59	59	65	67	65	66	51	46	45	51	53		57.5
Cedar Rapids Airport	24	MAX	77	76	76	79	88	91	82	83	84	74	77	82	73	75	83	73	77	84	89	86	83	80	78	81	77	70	72	64	74	64		78.4
		MIN	54	51	53	57	63	72	71	64	64	53	49	56	62	57	56	60	55	50	60	57	70	68	67	65	56	49	44	50	50	50		57.8
Cedar Rapids #1	17	MAX	79	78	78	80	90	93	90	87	85	75	79	83	80	77	83	82	79	85	90	88	87	80	77	81	79	71	74	72	76	74		81.1
		MIN	54	50	51	58	61	73	71	67	61	58	49	51	65	54	56	63	59	51	61	58	68	66	65	64	65	50	46	49	47	48		58.0
Clinton #1	18	MAX	76	75	76	78	87	91	88	84	84	79	76	79	78	75	81	83	80	82	87	87	85	79	77	76	84	75	70	68	72	68		79.3
		MIN	57	57	57	61	63	73	74	68	65	60	52	55	61	60	59	69	62	54	56	63	65	66	68	65	66	52	48	49	52	56		60.4
Coggon	6	MAX	78	74	77	76	77	87	90	77	83	81	72	76	81	72	75	81	71	74	83	88	86	79	71	77	75	75	68	69	64	73		77.0
		MIN	54	50	46	49	57	62	72	69	60	57	47	51	53	54	54	55	59	49	49	57	57	67	64	62	65	49	46	45	48	48		55.2
Davenport Airport	24	MAX	77	77	77	79	88	92	89	85	82	73	77	82	78	77	83	84	82	83	88	88	83	86	78	79	86	72	74	65	74	66		80.1
		MIN	55	54	53	58	65	74	73	66	66	52	50	55	61	60	56	64	55	51	56	62	68	67	66	65	59	51	47	48	50	53		58.7
Iowa City	7	MAX	80	78	77	77	79	88	92	87	85	83	74	78	83	77	77	84	81	80	85	90	88	83	83	79	84	81	72	74	64	75		80.6
		MIN	55	53	53	55	58	62	73	70	70	58	49	50	54	61	58	58	56	50	50	57	60	67	67	64	67	51	48	46	51	52		57.4
Iowa City Airport	24	MAX	78	78	77	79	89	92	87	86	83	74	78	83	78	77	83	80	80	86	91	88	83	83	81	84	81	72	73	65	76	65		80.3
		MIN	58	56	56	58	62	72	74	69	66	55	51	54	64	61	61	63	58	52	58	62	67	68	69	66	59	49	46	52	53	54		59.8
Le Claire L & D 14	6	MAX	78	76	77	79	78	87	90	88	85	81	73	78	80	78	76	82	83	83	90	86	87	81	82	81	78	84	71	74	63	73		80.1
		MIN	59	57	57	59	61	68	76	70	70	63	57	59	59	61	59	60	60	59	58	64	64	68	67	66	66	55	53	50	50	52		60.9
Lowden	24	MAX	77	77	78	79	88	93	87	86	83	73	78	81	80	77	83	83	81	85	90	88	81	80	74	78	85	71	74	64	75	65		79.8
		MIN	54	51	50	56	60	72	72	65	63	53	49	52	63	58	55	63	56	51	59	62	66	65	66	64	60	47	46	49	51	54		57.7
Maquoketa 4 W	7	MAX	76	74	75	76	78	87	91	86	85	84	72	77	81	76	75	82	80	78	85	90	88	81	79	72	76	83	70	71	63	74		78.8
		MIN	52	50	50	52	56	62	73	68	61	60	49	49	50	55	55	55	58	49	49	56	63	64	64	63	65	50	43	44	49	50		55.5
Muscatine	6	MAX	80	78	77	79	81	88	93	88	86	82	73	79	83	77	76	85	85	82	86	90	90	84	86	79	83	86	73	75	65	76		81.5
		MIN	58	56	56	58	62	64	73	72	71	60	52	52	55	62	62	63	62	52	53	56	63	68	69	66	67	48	45	45	52	52		59.1
Vinton	7	MAX	78	75	75	75	80	87	89	76	83	74	71	75	80	68	73	81	74	74	82	87	84	84	73	78	79	68	69	71	60	73		76.5
		MIN	53	50	50	59	60	69	70	65	60	54	47	49	53	53	54	57	57	49	54	53	55	64	64	63	66	47	43	46	48	49		55.4
Williamsburg 1 E	7	MAX	79	77	78	78	79	89	92	85	86	85	73	78	83	72	76	85	75	78	85	91	90	86	85	81	86	76	72	74	62	75		80.4
		MIN	55	52	52	53	59	65	73	68	66	59	51	51	55	59	57	57	60	50	51	57	58	71	67	65	66	48	45	45	49	50		57.1
SOUTHWEST DIVISION																																		
Atlantic 1 NE	7	MAX	81	80	77	77	79	89	91	78	85	78	74	78	85	65	72	83	75	78	84	88	91	94	91	89	90	70	75	77	68	72		80.5
		MIN	52	52	53	57	64	69	71	65	69	55	49	55	62	56	56	61	53	52	54	53	53	70	70	64	60	43	42	42	43	41		56.2

SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW				
STATION	OBS TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	DAY OF MONTH				18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG
Bedford	7	MAX	78	76	77	77	79	87	91	82	83	82	71	75	83	68	72	83	71	79	83	91	89	90	91	90	86	69	73	78	64	69		79.6	
		MIN	57	55	59	59	60	68	75	71	71	53	50	53	64	58	58	60	58	57	58	62	63	71	67	67	64	45	46	48	47	48		59.1	
Clarinda	6	MAX	78	76	75	75	79	87	89	80	82	83	71	77	84	66	71	82	72	78	82	88	90	89	89	87	86	70	73	75	64	68		78.9	
		MIN	56	55	56	60	65	71	72	68	69	53	49	53	59	57	57	61	55	52	55	57	57	70	63	63	58	44	43	44	43	44		57.0	
Glenwood	6	MAX	81	78	76	76	81	90	91	81	84	84	74	79	84	63	69	84	76	80	84	84	91	89	90	89	85	71	75	77	65	72		80.1	
		MIN	57	55	56	58	64	72	75	69	70	54	53	53	61	55	55	62	56	55	56	58	59	73	70	66	59	46	45	46	45	44		58.2	
Greenfield	8	MAX	80	76	74	75	79	87	89	78	82	82	72	76	82	66	69	82	71	76	82	87	87	90	88	86	87	67	72	74	63	70		78.3	
		MIN	56	55	55	59	61	69	68	68	68	52	52	58	62	55	56	56	58	57	60	57	61	69	69	64	60	44	47	45	46	46		57.8	
Oakland	7	MAX	79	77	76	77	78	88	89	79	84	79	72	79	84	62	69	83	74	77	84	83	91	90	89	89	88	71	74	75	63	71		79.1	
		MIN	58	55	55	57	64	67	71	67	68	51	51	51	61	54	54	60	56	56	58	58	58	70	69	66	56	45	45	45	45	45		57.2	
Red Oak	7	MAX	82	79	79	76	81	89	90	82	84	83	74	78	85	66	70	83	76	81	83	87	92	90	90	88	88	72	75	77	67	72		80.6	
		MIN	56	56	56	60	65	70	74	69	71	54	53	53	62	58	58	62	56	56	59	58	58	73	69	69	59	44	46	46	45	45		58.7	
Shenandoah	8	MAX	81	79	79	77	81	89	92	83	84	85	74	79	87	66	71	84	75	82	85	89	93	91	92	90	89	73	76	78	68	71		81.4	
		MIN	56	57	57	60	66	71	75	71	70	53	54	57	57	58	58	61	58	57	63	60	62	73	68	69	58	45	47	47	45	44		59.2	
Sidney 1 SSE	7	MAX	80	78	76	76	80	88	90	82	84	83	73	78	87	63	68	83	75	81	83	86	91	90	90	89	89	71	74	77	64	71		80.0	
		MIN	58	55	55	57	64	70	73	70	68	51	52	53	57	55	55	60	58	58	59	60	61	70	65	65	57	45	45	47	47	47		57.9	
SOUTH CENTRAL DIVISION																																			
Albia 3 NNE	7	MAX	78	76	74	75	78	86	89	83	83	82	72	75	80	72	75	81	75	76	81	87	85	90	85	86	85	71	69	72	60	70		78.4	
		MIN	54	54	54	57	59	66	75	71	70	53	53	57	60	60	60	60	58	53	53	55	59	72	67	65	61	48	47	44	47	47		58.0	
Allerton	8	MAX	78	76	75	75	78	87	90	83	83	83	71	76	80	74	74	83	73	78	82	88	86	90	86	86	86	69	72	75	62	72		79.0	
		MIN	56	56	55	55	59	65	72	70	70	54	48	49	56	56	59	60	60	54	55	62	61	69	66	65	65	46	45	47	47	48		57.7	
Beaconsfield	7	MAX	77	76	75	75	78	86	88	80	83	82	70	75	80	68	72	82	71	76	82	88	87	89	87	86	86	67	71	74	61	69		78.0	
		MIN	56	55	55	56	59	63	72	71	71	54	53	52	56	58	57	59	57	58	58	60	60	69	67	64	64	45	45	47	46	48		57.8	
Centerville	7	MAX	80	79	79	77	80	87	90	83	84	84	73	76	81	75	77	84	77	80	82	87	89	89	86	88	89	73	72	76	61	75		80.4	
		MIN	54	54	54	55	58	64	73	70	70	56	49	50	56	61	60	62	59	51	50	59	61	70	66	61	63	44	43	44	49	47		57.1	
Chariton 1 E	7	MAX	79	77	75	76	79	87	91	82	85	82	73	76	81	75	75	84	74	78	82	88	87	90	85	87	86	69	72	75	60	72		79.4	
		MIN	50	50	49	51	60	66	73	71	71	57	47	47	57	59	58	59	59	49	50	54	53	70	65	63	66	46	43	42	47	41		55.8	
Creston 2 SW	7	MAX	77	78	77	76	79	86	89	78	83	81	72	76	84	66	72	83	75	76	82	89	89	90	88	86	86	68	72	74	62	68		78.7	
		MIN	56	57	56	57	61	66	71	72	72	52	53	53	57	56	57	59	57	57	59	60	60	70	68	64	64	43	43	45	46	47		57.9	
Indianola 4 W	7	MAX	81	78	78	78	82	89	92	81	86	82	74	79	84	71	76	85	74	77	86	91	90	94	89	90	90	68	72	75	60	73		80.8	
		MIN	52	53	56	58	64	67	73	73	72	54	51	56	61	58	59	60	58	55	58	56	58	73	69	66	67	47	49	49	47	44		58.8	
Knoxville	8	MAX	79	77	77	77	80	88	91	79	84	81	72	77	81	70	75	82	74	78	83	89	87	91	85	87	87	69	72	74	60	72		79.3	
		MIN	57	53	56	56	62	62	75	71	70	54	54	57	60	59	59	59	58	55	58	60	60	71	68	66	66	47	47	47	49	50		58.9	
Lamoni	7	MAX	81	79	78	80	82	90	93	82	86	86	73	79	85	74	76	87	73	80	85	91	92	91	91	91	90	69	74	78	63	73		81.7	
		MIN	58	58	59	60	61	65	73	73	73	55	54	54	58	60	60	62	61	58	58	63	63	71	68	68	68	46	46	49	48	48		59.9	
Lamoni Airport	24	MAX	78	76	76	79	87	89	81	83	83	73	75	82	72	76	83	73	80	82	88	88	89	88	87	87	69	73	77	63	72	70		79.3	
		MIN	55	59	58	59	64	71	73	72	65	54	52	57	62	59	63	61	61	58	62	61	74	70	68	67	54	46	49	48	48	48		59.9	



SEPTEMBER 2016			DAILY MAXIMUM AND MINIMUM AIR TEMPERATURES FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																												IOWA CLIMATE REVIEW						
STATION	OBS TIME		DAY OF MONTH																																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVG			
Mount Ayr	8	MAX	77	76	74	74	78	86	92	83	83	81	71	74	80	67	72	81	69	76	81	88	87	89	88	86	86	66	72	73	61	69		78.0			
		MIN	57	54	57	60	64	69	72	70	71	53	48	56	61	58	58	59	57	52	61	61	65	70	67	65	65	41	44	46	48	51		58.7			
Osceola	8	MAX	81	78	78	77	81	90	92	81	86	85	73	78	83	69	74	85	74	78	84	90	90	92	90	90	88	69	73	76	61	71		80.6			
		MIN	54	56	55	57	62	67	76	71	71	55	48	56	56	58	59	61	58	52	56	56	58	72	71	63	63	47	45	45	48	48		58.1			
Rathbun Dam	7	MAX	78	77	75	76	79	87	91	83	84	84	73	77	81	73	74	82	76	79	83	89	88	90	86	89	87	72	72	76	60	74		79.8			
		MIN	57	56	55	55	59	59	74	70	70	57	49	50	57	60	60	61	61	52	53	61	63	71	67	64	64	47	47	48	48	49		58.1			
Winterset 1 S	7	MAX	81	78	75	76	81	87	89	79	83	80	73	76	80	69	75	84	74	77	85	88	86	90	88	90	89	68	70	73	62	72		79.3			
		MIN	54	54	56	59	62	65	69	69	70	53	52	56	61	58	59	60	58	57	58	56	60	70	65	64	65	44	47	47	46	47		58.0			
SOUTHEAST DIVISION																																					
Burlington Airport	24	MAX	79	78	78	81	89	92	89	83	77	73	77	81	77	76	85	83	82	83	89	90	89	89	87	88	85	73	75	63	76	67		81.1			
		MIN	57	58	59	57	66	74	71	69	67	53	50	56	63	63	61	66	58	53	57	64	69	66	67	65	58	49	50	49	51	53		60.0			
Donnellson	7	MAX	83	79	77	78	82	90	92	91	84	79	75	79	82	78	77	85	85	83	85	87	91	91	91	90	90	80	74	77	65	78		82.6			
		MIN	56	53	56	58	60	66	70	70	69	58	52	53	58	62	61	60	63	55	54	60	63	67	68	67	66	50	50	49	48	49		59.0			
Fairfield	8	MAX	78	77	77	77	80	87	90	87	86	81	73	76	80	75	75	83	83	81	83	87	88	90	87	87	87	80	71	75	63	73		80.6			
		MIN	56	54	53	58	63	70	74	71	70	59	51	55	61	60	59	62	61	53	58	62	66	70	67	65	66	50	49	48	48	50		59.6			
Fort Madison	24	MAX	78	76	77	80	85	89	87	81	76	75	76	80	78	76	83	80	82	82	85	90	89	87	88	89	82	75	77	64	77	67		80.4			
		MIN	59	57	60	61	66	74	73	71	67	57	53	59	65	63	64	68	62	56	61	66	71	68	69	67	63	53	52	51	51	54		62.0			
Keokuk Lock & Dam 19	6	MAX	79	76	76	77	82	89	92	90	82	78	73	79	80	77	76	84	84	82	83	86	89	89	89	89	88	88	73	77	62	73		81.4			
		MIN	62	58	59	58	59	64	73	72	70	62	55	55	57	65	64	65	65	58	60	60	66	66	66	67	66	55	51	51	52	52		61.1			
Keosauqua	7	MAX	82	81	79	78	78	87	89	92	80	85	74	75	78	77	74	84	84	82	84	89	90	91	89	90	89	79	74	77	64	77		81.7			
		MIN	56	51	51	56	60	66	73	73	69	59	55	53	58	63	56	60	61	54	50	60	63	68	67	65	66	48	47	49	48	49		58.5			
Mount Pleasant 1 SSW	7	MAX	78	77	76	77	78	86	89	86	82	79	72	79	80	74	75	82	82	81	82	86	87	88	87	87	87	80	71	75	63	75		80.0			
		MIN	55	52	52	53	60	64	72	70	68	59	49	49	58	60	59	59	61	51	51	57	62	68	67	64	64	48	47	47	48	48		57.4			
Oskaloosa	7	MAX	81	80	78	78	80	88	89	84	88	84	72	76	82	73	78	84	76	78	83	88	89	89	88	88	88	72	72	74	64	76		80.7			
		MIN	57	54	54	54	63	66	75	71	71	55	50	53	56	60	60	60	60	52	54	59	59	70	68	67	66	47	47	50	48	49		58.5			
Ottumwa Airport	24	MAX	79	77	76	79	87	90	85	86	81	73	76	81	75	77	83	80	79	84	88	87	92	87	88	88	77	73	76	64	77	66		80.4			
		MIN	54	54	53	56	65	72	73	71	65	52	49	56	64	61	60	60	52	51	61	55	72	70	69	65	56	47	46	48	47	48		58.4			
Sigourney	7	MAX	79	78	78	77	80	89	92	85	88	82	73	78	82	74	78	84	80	81	85	91	91	94	86	86	91	70	72	74	65	77		81.3			
		MIN	56	54	54	54	61	64	72	70	68	57	51	51	55	59	58	58	59	53	54	59	59	69	67	65	65	47	47	47	47	49		57.6			
Washington	7	MAX	82	79	76	77	79	88	91	87	88	81	74	77	80	77	76	83	83	81	84	88	89	90	84	81	87	80	73	75	65	78		81.1			
		MIN	54	53	52	54	60	65	73	70	69	59	49	50	55	60	58	59	58	50	51	60	60	68	68	64	65	49	47	46	48	48		57.4			
SUPPLEMENTAL STATIONS																																					
Moline Airport	24	MAX	79	78	78	80	88	92	90	86	81	74	78	81	78	84	84	82	84	89	89	84	88	82	82	87	72	75	65	76	67		81.0				
		MIN	57	55	54	58	65	75	74	69	68	54	52	54	62	61	58	67	58	54	55	63	66	66	68	67	61	52	47	51	54	59		60.1			
Omaha Eppley AP	24	MAX	81	78	78	82	92	92	82	85	80	76	82	85	64	70	84	77	82	86	85	93	91	91	91	84	73	77	80	67	73	77		81.3			
		MIN	59	59	61	66	71	74	72	68	58	54	56	64	58	56	63	63	55	60	61	56	75	73	71	69	52	49	50	46	45	46		60.3			
Sioux Falls WFO AP	24	MAX	81	77	78	77	81	77	78	77	73	73	80	69	61	70	67	73	76	83	83	86	88	78	86	81	69	72	75	66	69	75		76.0			
		MIN	54	58	62	65	65	67	67	55	55	50	56	60	47	42	61	57	57	58	54	54	63	62	66	67	48	43	44	43	40	41		55.4			



SEPTEMBER 2016			'DAILY PRECIPITATION (INCHES) FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																										IOWA CLIMATE REVIEW						
STATION	OBS	TOTAL	DAY OF MONTH																																
	TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
NORTHWEST DIVISION																																			
Akron	7 4.43					T 1.26		1.66			0.47						0.09	0.18						0.13		0.12	0.52								
Cherokee	8 6.44					1.85		T 1.46	0.01		1.07						T 0.05	1.72		T				0.06			0.22								
Emmetsburg	8 10.03					1.27	0.24	2.07		T 0.18	0.57						0.03	2.41		T				0.25	2.13		0.88								
Estherville Airport	24 6.92				0.05	1.26	0.22	0.37		1.16							2.52	0.07						0.05	0.51	0.53	0.18								
Estherville 4 E	7 6.86					1.09	0.22	0.41		0.41	0.87							2.48						0.08	0.51		0.79								
Everly 3 WNW	7 7.17				0.02	1.60	0.19	0.54		0.10	0.56						0.01	2.84						0.02	0.64		0.65		T						
Hawarden	7 5.41				0.22	1.52	0.24	1.32			1.30						0.09	0.25									0.07	0.40							
Le Mars	7 5.30					1.45		1.25			0.53						0.04	0.96						0.34		0.09	0.64								
Orange City	7 6.83				0.11	1.29	0.02	1.86	0.02	0.03	1.19						0.04	1.59						T	T		0.68								
Pocahontas	8 7.06					0.30	0.34	1.16	0.02		0.56				0.24	0.01	T 2.95							0.27	0.03	0.15	1.03								
Primghar	16 9.49				0.40	1.95	0.12	1.78		1.10							0.90	2.60								0.33	0.31								
Remsen #2	6 7.68				0.48	2.75		1.72			0.93						0.23	0.90						0.20			0.47								
Rock Rapids	8 7.97				0.30	1.14	0.32	0.50		T 1.33	0.04						T 3.73							0.05			0.56								
Rock Valley	7 8.08				0.16	1.39	0.59	0.49	0.02	0.11	0.95						0.06	3.74								T 0.57									
Sanborn	8 7.74					T 1.43	0.32	0.78		T 0.21	0.85							3.40									0.75								
Sheldon	7 9.69				0.34	1.48	0.10	1.01	0.02	0.13	0.82						T 0.02	4.52						T			1.25								
Sibley	7 10.29				0.32	1.19	0.17	1.12	0.04	0.32	1.16						0.02	3.88						0.22	0.55		1.30								
Sioux Center 2 SE	16 6.82					T 1.64		T 1.53		1.15							0.22	0.95						T		0.29	1.04								
Sioux Rapids 4 E	22 8.46					T 0.99		T 2.33		0.83						T	2.17	0.95						0.16	0.12	0.21	0.70								
Spencer Airport	24 6.74					1.63	0.02	0.72		0.81							2.40	0.09						T 0.80	0.08	0.19									
Spencer 1 N	24 7.49					T 2.19	0.01	0.78		0.55							2.46	0.22				T		T	T 0.95	0.13	0.20								
Spirit Lake 4 W	24 6.92				0.20	0.90	0.14	0.84		0.66							2.85	0.04							0.48	0.06	0.75								
Storm Lake	8 8.34				0.02	0.42		1.28	0.03		T 0.98					T 0.07	0.02	4.31						0.10	T		1.11								
NORTH CENTRAL DIVISION																																			
Algona 3 W	6 10.65					0.10	0.46	2.73	0.10		0.78					0.01		2.70						0.85	2.32	0.10	0.50		T						
Allison	7 9.85							0.25	0.50		3.25					0.25		1.20						1.45	2.50	0.15	0.30								
Britt	7 10.88					T 0.89	2.34	0.18		1.03						0.71		2.10						2.45	0.74	0.12	0.32								
Charles City	7 15.83				0.13	0.02	0.84	0.26		3.35						0.57		1.74						6.35	2.30	T 0.25	0.02								
Clarion	7 9.76						0.69	0.30		1.77						0.49	0.03	1.76						0.59	3.82	0.04	0.27								
Dakota City	8 7.02				0.02		T 0.58	0.08		1.11						0.47	0.02	2.02						0.73	1.23	0.13	0.63								
Forest City 2 NNE	7 11.12				0.02	0.67	2.70	0.10	0.10	0.94						0.53		2.25						3.05	0.35	0.01	0.40		T						
Hampton	7 8.95					0.05	0.30	0.45		2.38						0.18		1.23						1.36	1.80	0.32	0.87	0.01							
Kanawha	8 10.89					0.03	1.54	0.26		0.92						0.50		2.05						2.14	2.58	0.25	0.43	0.19							
Lake Mills	7 8.01				0.14	0.21	1.07	0.10	0.55	0.21						0.62		2.11					0.01	2.10	0.49		0.40								
Mason City	7 10.25					T	T 2.68	0.02		0.90						0.47		1.51						2.88	1.50	0.05	0.24								
Mason City Airport	24 11.03				0.16	0.22	2.67		0.70	T		0.84		T	T 1.31	0.22				T			0.63	2.43	1.65	0.12	0.08								
Nashua 2 SW	7 14.91				0.06	0.01	0.63	0.27		2.51						0.37		1.30						7.55	1.89	0.03	0.29				T				
Northwood	7 9.37				0.09	0.24	1.21	0.05	0.56	0.45						0.18		1.86		T	T			T 4.13	0.24		0.33	0.03							
Osage	7 10.30				0.12	0.26	2.77	0.04		1.22						0.40		1.43						3.44	0.12	T 0.50									
Saint Ansgar	6 10.54					T 1.35	1.68	0.15		0.96						0.28		1.67			T			3.64	0.63	T 0.18		T							
Swea City 4 W	7 5.86				0.64	0.85	0.41	0.05	0.31	0.43							T	2.08					T	0.20	0.08	0.05	0.76		T						
NORTHEAST DIVISION																																			
Cascade	7 6.33							0.50	1.48		0.70	0.01			0.63	T	1.33	0.03				0.08		0.06	1.50	0.01			T				T		
Cresco 1 NE	7 10.37					0.15	3.09	0.37		2.30					0.39		1.24						T 2.70	0.06	0.02	0.05							T		
Decorah	16 11.66						3.15		2.38	0.14					0.27		2.41							3.22	0.03		0.06								
Dubuque Lock & Dam 11	6 5.54						0.15	2.10		0.12					0.05	0.60		0.54	0.01			0.15	0.01	1.33	0.48										
Dubuque Airport	24 5.17						2.02	0.07	0.22	T					0.62	0.10	0.20				0.54		0.53	0.31	0.54					T		0.02			
Elkader 6 SSW	7 5.55						0.18	0.24		0.74					0.03	0.02	2.22	0.03					0.18	0.07	0.44	1.39	0.01		T			T			
Fayette	7 8.77						0.78	0.22		1.36					0.14	0.03	1.76						0.24	2.56	1.56	T 0.12					T				
Guttenberg L & D 10	6 5.51						0.07	0.43		1.23					0.22	0.05	1.42					0.33	0.02	0.15	1.56		0.02	0.01							
Ionia 2 W	7 13.06					0.23	0.82	0.13		1.96					0.55		2.08							6.00	1.05		0.22	0.02							
Manchester #2	7 9.56						0.08	0.26		1.03					0.25	0.02	2.18	0.03				T			5.69	0.02		T					T		
New Hampton	8 11.17					0.15	1.05	0.27		3.10					0.72		1.32							3.80	0.70		0.06								
Oelwein 1 E	7 7.58						0.46	0.38		0.94						0.01	2.12					0.05		0.32	2.90	0.05	0.35		T				T		

SEPTEMBER 2016			'DAILY PRECIPITATION (INCHES) FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																											IOWA CLIMATE REVIEW				
STATION	OBS TIME	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Tripoli	7	11.49					0.01	0.01	0.51	0.05		2.32			0.02	T		1.50	T		T			2.30	4.61	0.04	0.12	T			T			
Waterloo Airport	24	7.32					0.01		0.42		0.92	0.02			0.14		1.51	0.41			0.01			3.21	0.37		0.30							
WEST CENTRAL DIVISION																																		
Audubon	8	7.85					0.21	T	0.14	0.42		2.24			0.30	0.03	T	3.19						T		T	1.32							
Battle Creek 3 NE	8	4.72					0.18	T	1.34	0.06	T	0.95				0.10	0.08	0.84	T					0.17	0.03		0.97							
Carroll	7	5.21					0.01	T	0.02	0.13		0.91			0.10	0.01		2.64						0.10	0.38		0.91							
Castana Exp. Farm	8	3.65					0.08		0.02	0.16		0.60				0.05		1.78						0.15			0.81							
Denison	7	5.82					0.08		0.02	0.13		1.13			0.34	0.25		2.30						0.07	0.01		1.49							
Guthrie Center	8	8.03							T	0.65		2.55			0.42	0.10		3.11						T			1.20							
Holly Springs 1 NW	7	2.56				T	0.20		0.61	0.04		0.56				0.04		0.49						0.10			0.52							
Holstein	7	6.27				0.03	0.42	0.47	1.61	0.03		1.09				0.02	0.07	1.49						0.10	0.08		0.86							
Little Sioux 2 NW	7	10.20				0.03		0.30	T	0.25		2.18			0.25	0.45		5.34						0.45			0.95							
Logan	8	6.64				T	0.08		0.02	0.04		0.94			0.21	0.34		3.37						0.06			1.58							
Mapleton #2	7	4.49					0.07	0.02	0.43	0.12		1.55				0.19	0.01	1.02						0.16			0.92							
Rockwell City	7	6.70					0.12	0.02	T	T		1.40			0.43	0.06		2.78						0.23	0.03	0.71	0.92							
Sac City	7	5.97					0.05	0.75		0.30	0.05		0.60			0.56	0.03		2.55					0.16	0.05	0.12	0.75							
Sioux City Airport	24	2.78				T	0.03	0.03	0.38	T		0.10			T	T		0.50	0.26						0.25		1.23	T						
CENTRAL DIVISION																																		
Ames Airport	24	8.94								1.86	0.02	0.57				0.17		1.64	0.51						3.28	0.44	0.33	0.12						
Ames 8 WSW	16	7.88								0.35	2.15	0.15	0.14			0.13			1.64						0.17	1.92		1.23						
Ames 5 SE	6	9.93					T			1.78		0.41				0.16	T		2.40						T	4.54	0.28	0.36						
Ankeny	8	7.14						T		2.36	T	0.83				0.25	T		2.83	T					T	T	0.02	0.85						
Boone	8	6.98							T	2.39		0.41				0.13	0.03	T	2.19						0.11	0.34	0.03	1.34	0.01					
Brooklyn	7	5.11							T	1.20		1.05				0.35			1.61				T			0.20	0.60	0.10						
Clutier	7	8.74							T	3.45		0.78				0.17	0.10		1.82				0.22			1.46	0.60	0.14				T		
Des Moines Airport	24	5.50				T			0.65	0.01	0.55					0.76		1.08	0.77			T			T	0.02	1.50	0.16					T	
Des Moines Camp Dodge	24	4.12				0.01			0.66	0.01	0.72				T	0.21		1.25	0.64						0.02	0.13	0.28	0.19					T	
Eldora	7	6.32						T	0.01	0.61		0.77				0.02	0.01		1.66						0.64	1.62	0.14	0.83	0.01					
Fort Dodge 5 NNW	7	7.59					0.10		0.08	T		1.15				0.45	T		3.80						0.68	0.55	0.12	0.62	0.04					
Gilman	7	5.28								1.90		0.18				0.35			2.20							0.10	0.20	0.35						
Grinnell 3 SW	7	6.23								2.04		0.70				0.98	0.05		1.75				0.03			0.05	0.25	0.35	0.03					
Grundy Center	8	5.80							0.11	0.20		0.54				0.04			1.68						1.56	1.16	0.07	0.44						
Iowa Falls	7	6.91				T			0.20	0.34	T	1.39				0.02	T		2.31						0.50	1.02	0.11	1.02				T		
Marshalltown	7	7.20							0.02	1.61		0.55				0.18			2.11				0.22		0.42	0.95	0.51	0.63						
Marshalltown Airport	24	7.94							1.40	0.01	1.26	T				0.12		1.62	0.39			0.33			1.11	1.10	0.35	0.25			T			
Montezuma 1 W	7	4.46								1.62		0.65				0.23	0.11		0.92							0.30	0.56	0.07						
Newton	7	4.66							T	1.79		0.18				0.27	0.03		1.60							0.04	0.12	0.63						
Perry	7	5.85					T		0.02	0.62		0.50				0.28	0.02		2.57							0.32	0.01	1.49	0.02					
Toledo 3 N	7	7.07							T	2.16		0.33				0.39			2.09			0.78				0.79	0.16	0.37	T					
Webster City	7	7.52					0.03	0.06	0.10	T	1.42					0.02	T		2.34						1.10	1.18	0.23	1.04						
Zearing	7	9.26								1.20		0.53				0.09			3.76							2.25	0.83	0.08	0.52					
EAST CENTRAL DIVISION																																		
Anamosa 3 SSW	6	6.02							0.03	2.09	0.02	0.24	0.01			0.08	0.09		1.41	0.01					0.01	1.93	0.10					T		
Belle Plaine	7	5.53								T	1.76		0.15			0.30	0.02		1.25	0.02						1.85	0.12	0.05	0.01					
Bellevue Lock & Dam 12	6	3.79									1.44			0.12			0.05	0.03		0.75	0.05			0.05	0.47	0.83								
Cedar Rapids Airport	24	6.92							1.19	1.46	0.31	0.01				0.11	0.03	1.08	0.07						0.01	2.65					T			
Cedar Rapids #1	17	6.80							1.12	2.10	0.38	0.34				0.17			1.36							0.12	1.21		T			T		
Clinton #1	18	4.67							0.66	3.00		0.03											0.52			0.45				0.01	T			
Coggon	6	7.75							0.22	0.99		0.50				1.03	0.07		2.24							2.70								
Davenport Airport	24	2.89							1.81	0.45	T	0.01					T		0.05				0.02		T	0.54		T			0.01		T	
De Witt	8	5.33								4.54									0.07							0.06	0.53	0.05	T			0.08		
Iowa City	7	3.25								1.64		0.16														1.20	0.25							
Iowa City Airport	24	2.83							1.27	0.03	0.07	0.11				T	0.01		T				T	0.69	0.65		T			T				
Le Claire L & D 14	6	2.60								2.10	0.06		0.01						0.04							0.12	0.22				0.01	0.04		
Lowden	24	5.13							1.85	1.95	0.11	0.10							0.17					0.06	0.04	0.84		T					0.01	
Maquoketa 4 W	7	2.34							T	1.37		0.15	0.07				0.01		0.16						0.13	0.45	T		T			T		
Monticello	7	5.97							0.47	1.74		0.34				1.14	0.05		1.50				0.02			0.69	0.02							

SEPTEMBER 2016			'DAILY PRECIPITATION (INCHES) FOR THE 24 HOURS ENDING AT THE OBSERVATION TIME (OBS TIME)																										IOWA CLIMATE REVIEW					
STATION	OBS TIME	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Muscatine	6	1.72								1.37		0.04						0.06							0.05	0.20								
Muscatine 2 N	5	1.74								1.38		0.05				T		T	0.03						0.05	0.23		T						
Swisher	7	6.80							0.06	2.60		0.48			0.05	0.05		0.63	T						0.05	0.23								
Vinton	7	7.72							0.03	1.17	0.02	2.28			0.51	0.02		1.27	0.02					0.10	2.20	0.06	0.04							
Williamsburg 1 E	7	4.31								1.03		0.39			0.02	0.18		0.65							1.60	0.44								
SOUTHWEST DIVISION																																		
Atlantic 1 NE	7	6.22					0.05			0.62		0.62			0.68	0.30		2.49								0.02	1.44							
Bedford	7	3.50								0.65		0.27			1.05	0.55		0.13									0.85							
Clarinda	6	3.77								0.22		0.21			0.76	1.25		0.18									1.15							
Glenwood	6	4.29								0.40		0.60			0.46	0.57		0.40									1.86							
Greenfield	8	5.89							0.03	0.93		0.55			0.73	0.27		2.26									1.12							
Hastings 4 NE	8	4.69					0.24			0.41		0.44			1.12	0.33		0.65									1.50							
Massena	7	5.51								1.08		0.42			0.51	0.06	0.02	2.40									1.02							
Oakland	7	5.94					0.05			0.54		0.65			0.87	0.18		2.21						0.01		1.43								
Randolph	8	4.23					0.05			0.85		0.35			1.79	0.20		0.38									0.61							
Red Oak	7	4.88					T			1.13		0.53			0.64	0.80		0.75								1.03								
Shenandoah	8	4.13					0.05			0.27	T	0.08			1.56	0.35		0.52								1.30								
Sidney 1 SSE	7	5.26					T			0.44		0.35			1.81	0.28		0.59								1.79								
Underwood	7	5.67					0.30		T	T		0.87			0.38	0.32		2.33						T		1.47								
SOUTH CENTRAL DIVISION																																		
Albia 3 NNE	7	1.25							0.01	0.38		0.45			0.05	0.05		0.29					0.02											
Allerton	8	3.28								1.34		0.30			0.03	0.38		0.62					0.60				0.01	T						
Beaconsfield	7	3.30								0.41		0.27			0.30	0.45		0.61								1.26								
Centerville	7	1.47								0.60		0.44				0.14		0.04					0.25											
Chariton 1 E	7	3.42								0.72		0.34			0.16	0.24		1.16					0.80											
Creston 2 SW	7	4.46								0.80		0.20			0.53	0.05		1.44								1.44								
Indianola 4 W	7	6.13							T	1.37	0.01	0.21			1.02	0.12		1.68								1.72	T							
Knoxville	8	4.29							0.02	1.74		0.61			0.50	0.09		1.10				T			T	0.23	T							
Lamoni	7	1.98	T							0.42		0.37			0.02	0.43		0.26	0.01						T	0.23	0.02							
Lamoni Airport	24	1.89							0.20	0.14	0.23				0.37			0.31								0.18	0.46							
Lorimor	8	7.10								1.10		0.15			0.59			2.26								3.00								
Mount Ayr	8	4.40								1.10		0.19			0.80	0.05		0.80								1.46								
Osceola	8	5.49								0.88		0.46			1.21	0.38		1.13								1.43								
Pella 1 S	7	4.37								1.15		0.84			0.28	0.18		0.99				0.74			0.08	0.10	0.01							
Rathbun Dam	7	0.91								0.23	0.01	0.14			0.03	0.13		0.06				0.31	T											
Winterset 1 S	7	7.29							0.04	0.66	T	0.78			0.81	0.25		2.40								0.25	2.10							
SOUTHEAST DIVISION																																		
Bloomfield 1 WNW	7	1.51								1.30		0.15				0.02		0.04																
Burlington Airport	24	3.23							2.69	0.26		0.20			T			0.08															T	
Donnellson	7	1.65								1.21	T	0.38						0.06	T															
Fairfield	8	0.90								0.61	T	0.10				0.04		0.15									T							
Fort Madison	24	1.30							0.41	0.49	T	0.29				T		0.11																
Keokuk Lock & Dam 19	6	2.13								0.80	0.18	0.50				0.05			0.60															
Keosauqua	7	3.00								1.53		0.77				T		0.70																
Mount Pleasant 1 SSW	7	2.70								2.25	0.01	0.39						0.03	0.02															
Oskaloosa	7	2.78								1.55		0.65				0.15	0.10		0.27								0.06							
Ottumwa Airport	24	1.01							0.14	0.48	0.12	0.02			0.02	T		0.23									T							
Salem 1 S	7	3.04								2.24		0.68						0.12																
Sigourney	7	2.12							T	1.63		0.35				0.02		0.12				T												
Wapello	6	M								3.20	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M		
Washington	7	1.61								1.21	0.01	0.25				0.06		0.01								0.07								
SUPPLEMENTAL STATIONS																																		
Moline Airport	24	1.22								0.40	0.45	T	0.01			T		0.03							0.32		T							
Omaha Eppley AP	24	4.42			T	0.04			T	0.09		0.93			0.04	0.71	T	0.27	1.04					0.01		1.19	0.10						0.01	
Sioux Falls WFO AP	24	7.55				0.53	1.46	0.07	0.40			0.25			T			3.61	T					0.19	0.70	0.34								

SEPTEMBER 2016	STATION INDEX			IOWA CLIMATE REVIEW					
			COORDINATES				ELEV		
STATION NAME	DIV	COUNTY	LATITUDE			LONGITUDE			(FT)
			DEG	MIN	SEC	DEG	MIN	SEC	
Akron	NW	Plymouth	42	49	37	96	33	21	1125
Albia 3 NNE	SC	Monroe	41	3	56	92	47	12	890
Algona 3 W	NC	Kossuth	43	4	6	94	18	19	1230
Allerton	SC	Wayne	40	42	15	93	22	11	1110
Allison	NC	Butler	42	45	13	92	48	8	1048
Ames Airport	C	Story	41	59	26	93	37	8	955
Ames 8 WSW	C	Boone	42	1	15	93	46	27	1099
Ames 5 SE	C	Story	41	57	7	93	33	56	870
Anamosa 3 SSW	EC	Jones	42	5	35	91	18	7	906
Ankeny	C	Polk	41	43	6	93	34	27	940
Atlantic 1 NE	SW	Cass	41	25	3	95	0	14	1148
Audubon	WC	Audubon	41	42	25	94	55	20	1280
Battle Creek 3 NE	WC	Ida	42	22	12	95	34	30	1380
Beaconsfield	SC	Ringgold	40	48	25	94	2	51	1215
Bedford	SW	Taylor	40	40	27	94	43	28	1190
Belle Plaine	EC	Benton	41	52	53	92	16	35	810
Bellevue L & D 12	EC	Jackson	42	15	40	90	25	23	603
Bloomfield 1 WNW	SE	Davis	40	45	35	92	26	22	812
Boone	C	Boone	42	2	30	93	53	26	1035
Britt	NC	Hancock	43	6	6	93	48	5	1240
Brooklyn	C	Poweshiek	41	44	22	92	26	24	910
Burlington Airport	SE	Des Moines	40	46	51	91	7	9	692
Carroll	WC	Carroll	42	3	54	94	51	0	1227
Cascade	NE	Dubuque	42	17	56	90	59	54	870
Castana Exp. Farm	WC	Monona	42	3	48	95	50	11	1450
Cedar Rapids Airport	EC	Linn	41	53	0	91	43	0	868
Cedar Rapids #1	EC	Linn	42	3	0	91	35	17	810
Centerville	SC	Appanoose	40	44	11	92	52	9	980
Chariton 1 E	SC	Lucas	41	0	59	93	16	45	940
Charles City	NC	Floyd	43	3	37	92	40	18	993
Cherokee	NW	Cherokee	42	45	26	95	32	16	1180
Clarinda	SW	Page	40	43	28	95	1	19	980
Clarion	NC	Wright	42	43	12	93	44	1	1156
Clinton #1	EC	Clinton	41	47	41	90	15	50	594
Clutier	C	Tama	42	4	48	92	24	18	900
Coggon	EC	Linn	42	16	45	91	31	30	903
Cresco 1 NE	NE	Howard	43	23	22	92	5	38	1255
Creston 2 SW	SC	Union	41	2	14	94	23	39	1320
Dakota City	NC	Humboldt	42	43	32	94	11	43	1110
Davenport Airport	EC	Scott	41	36	42	90	34	54	748
SEPTEMBER 2016	STATION INDEX			IOWA CLIMATE REVIEW					
			COORDINATES				ELEV		
STATION NAME	DIV	COUNTY	LATITUDE			LONGITUDE			(FT)
			DEG	MIN	SEC	DEG	MIN	SEC	
Decorah	NE	Winneshiek	43	18	15	91	47	43	860
Denison	WC	Crawford	42	2	11	95	19	44	1401
Des Moines Airport	C	Polk	41	32	2	93	39	11	957
Des Moines Camp Dodge	C	Polk	41	44	12	93	43	25	959
De Witt	EC	Clinton	41	48	39	90	32	26	685
Donnellson	SE	Lee	40	38	45	91	33	50	705
Dubuque L & D 11	NE	Dubuque	42	32	24	90	38	46	620
Dubuque Airport	NE	Dubuque	42	23	52	90	42	13	1056
Eldora	C	Hardin	42	21	55	93	5	50	1144
Elkader 6 SSW	NE	Clayton	42	46	31	91	27	13	788
Emmetsburg	NW	Palo Alto	43	6	9	94	41	0	1260
Estherville Airport	NW	Emmet	43	24	4	94	44	50	1317
Estherville 4 E	NW	Emmet	43	24	13	94	44	50	1320
Everly 3 WNW	NW	Clay	43	11	0	95	22	59	1365
Fairfield	SE	Jefferson	41	1	16	91	57	19	746
Fayette	NE	Fayette	42	51	1	91	48	57	1130
Forest City 2 NNE	NC	Winnebago	43	17	4	93	37	50	1276
Fort Dodge 5 NNW	C	Webster	42	35	1	94	12	2	1140
Fort Madison	SE	Lee	40	37	16	91	19	34	530
Gilman	C	Marshall	41	52	41	92	46	43	1040
Glenwood	SW	Mills	41	3	6	95	44	57	1060
Greenfield	SW	Adair	41	17	53	94	27	22	1330
Grinnell 3 SW	C	Poweshiek	41	43	13	92	44	56	912
Grundy Center	C	Grundy	42	21	53	92	45	34	1045
Guthrie Center	WC	Guthrie	41	40	7	94	29	50	1075
Guttenberg L & D 10	NE	Clayton	42	47	9	91	5	45	618
Hampton	NC	Franklin	42	45	22	93	12	4	1230
Harlan 1 ESE	WC	Shelby							
Hastings 4 NE	SW	Mills	41	4	38	95	28	48	1050
Hawarden	NW	Sioux	43	0	11	96	29	6	1190
Holly Springs 1 NW	WC	Woodbury	42	16	49	96	5	46	1100
Holstein	WC	Ida	42	29	23	95	32	56	1370
Indianola 4 W	SC	Warren	41	21	56	93	38	53	942
Ionia 2 W	NE	Chickasaw	43	2	1	92	30	6	1019
Iowa City	EC	Johnson	41	36	33	91	30	18	640
Iowa City Airport	EC	Johnson	41	37	58	91	32	35	668
Iowa Falls	C	Hardin	42	31	8	93	15	13	1051
Jefferson 2 NW	WC	Greene							
Kanawha	NC	Hancock	42	55	52	93	47	36	1185
Keokuk L & D 19	SE	Lee	40	23	48	91	22	30	527

SEPTEMBER 2016			STATION INDEX			IOWA CLIMATE REVIEW			SEPTEMBER 2016			STATION INDEX			IOWA CLIMATE REVIEW				
			COORDINATES					ELEV				COORDINATES					ELEV		
STATION NAME	DIV	COUNTY	LATITUDE			LONGITUDE			(FT)	STATION NAME	DIV	COUNTY	LATITUDE			LONGITUDE			(FT)
			DEG	MIN	SEC	DEG	MIN	SEC					DEG	MIN	SEC	DEG	MIN	SEC	
Keosauqua	SE	Van Buren	40	43	39	91	58	6	592	Postville	NE	Allamakee	43	5	24	91	33	29	1165
Knoxville	SC	Marion	41	19	29	93	6	3	915	Primghar	NW	O' Brien	43	5	11	95	37	45	1520
Lake Mills	NC	Winnebago	43	25	4	93	32	5	1260	Randolph	SW	Fremont	40	52	28	95	34	0	980
Lamoni	SC	Decatur	40	37	24	93	57	3	1128	Rathbun Dam	SC	Appanoose	40	49	30	92	53	33	965
Lamoni Airport	SC	Decatur	40	37	50	93	54	3	1135	Red Oak	SW	Montgomery	41	0	13	95	14	31	1040
Le Claire L & D 14	EC	Scott	41	34	29	90	24	2	577	Remsen #2	NW	Plymouth	42	48	37	95	58	30	1330
Le Mars	NW	Plymouth	42	46	54	96	8	45	1320	Rock Rapids	NW	Lyon	43	25	48	96	10	7	1347
Little Sioux 2 NW	WC	Harrison	41	49	35	96	3	2	1025	Rock Valley	NW	Sioux	43	12	16	96	18	22	1246
Logan	WC	Harrison	41	38	17	95	47	18	1030	Rockwell City	WC	Calhoun	42	23	49	94	37	45	1224
Lorimor	SC	Union	41	7	29	94	3	5	1230	Sac City	WC	Sac	42	25	10	94	58	34	1210
Lowden	EC	Cedar	41	51	23	90	55	48	715	Saint Ansgar	NC	Mitchell	43	22	54	92	55	24	1139
Manchester #2	NE	Delaware	42	28	24	91	27	6	990	Salem 1 S	SE	Henry	40	50	8	91	37	20	650
Mapleton #2	WC	Monona	42	9	43	95	47	1	1200	Sanborn	NW	O' Brien	43	10	45	95	39	37	1551
Maquoketa 4 W	EC	Jackson	42	2	58	90	44	56	782	Sheldon	NW	O' Brien	43	10	51	95	51	10	1420
Marshalltown	C	Marshall	42	3	53	92	55	28	871	Shenandoah	SW	Page	40	46	2	95	22	48	975
Marshalltown Airport	C	Marshall	42	6	38	92	54	58	974	Sibley	NW	Osceola	43	24	17	95	44	54	1529
Mason City	NC	Cerro Gordo	43	9	47	93	11	43	1105	Sidney 1 SSE	SW	Fremont	40	44	10	95	38	35	1140
Mason City Airport	NC	Cerro Gordo	43	9	16	93	19	37	1225	Sigourney	SE	Keokuk	41	20	11	92	12	16	800
Massena	SW	Cass	41	15	19	94	45	54	1325	Sioux Center 2 SE	NW	Sioux	43	3	21	96	9	9	1360
Moline Airport		Rock Island,IL	41	27	55	90	31	24	592	Sioux City Airport	WC	Woodbury	42	23	29	96	22	45	1095
Montezuma 1 W	C	Poweshiek	41	35	1	92	32	59	965	Sioux Falls		Minnehaha,SD	43	34	40	96	45	14	1428
Monticello	EC	Jones	42	14	28	91	10	24	820	Sioux Rapids 4 E	NW	Buena Vista	42	53	35	95	3	55	1420
Mount Ayr	SC	Ringgold	40	42	19	94	14	34	1180	Spener Airport	NW	Clay	43	9	52	95	12	6	1338
Mount Pleasant 1 SSW	SE	Henry	40	56	55	91	33	53	730	Spencer 1 N	NW	Clay	43	9	55	95	8	48	1326
Muscatine	EC	Muscatine	41	24	27	91	4	22	549	Spirit Lake 4 W	NW	Dickinson	43	25	53	95	10	56	1430
Muscatine 2 N	EC	Muscatine	41	28	17	91	3	47	680	Stanley 3 WSW	NE	Buchanan	42	38	0	91	51	48	1114
Nashua 2 SW	NC	Floyd	42	56	13	92	34	13	1059	Storm Lake	NW	Buena Vista	42	38	49	95	11	36	1442
New Hampton	NE	Chickasaw	43	2	43	92	18	44	1148	Strawberry Point	NE	Clayton	42	41	7	91	31	57	1200
Newton	C	Jasper	41	42	42	93	1	47	960	Swea City 4 W	NC	Kossuth	43	24	8	94	22	59	1239
Northwood	NC	Worth	43	26	19	93	13	31	1190	Swisher	EC	Johnson	41	50	59	91	40	35	790
Oakland	SW	Pottawattamie	41	18	16	95	23	4	1260	Toledo 3 N	C	Tama	42	2	8	92	34	50	949
Oelwein 1 E	NE	Fayette	42	40	48	91	52	30	1165	Tripoli	NE	Bremer	42	48	45	92	15	27	960
Omaha Eppley Airport		Douglas, NE	41	18	37	95	53	57	982	Underwood	SW	Pottawattamie	41	23	22	95	40	52	1080
Orange City	NW	Sioux	43	0	2	96	3	14	1380	Vinton	EC	Benton	42	10	13	92	0	28	850
Osage	NC	Mitchell	43	16	46	92	48	38	1170	Wapello	SE	Louisa	41	10	50	91	11	48	580
Osceola	SC	Clarke	41	1	10	93	45	1	1028	Washington	SE	Washington	41	16	57	91	42	28	687
Oskaloosa	SE	Mahaska	41	19	17	92	38	48	830	Waterloo Airport	NE	Black Hawk	42	33	16	92	24	4	868
Ottumwa Airport	SE	Wapello	41	6	28	92	26	48	842	Webster City	C	Hamilton	42	28	7	93	47	50	1170
Pella 1 S	SC	Marion	41	22	34	92	55	13	780	Williamsburg 1 E	EC	Iowa	41	39	54	91	59	52	810
Perry	C	Dallas	41	50	22	94	6	38	965	Winterset 1 S	SC	Madison	41	18	22	94	1	6	1104
Pocahontas	NW	Pocahontas	42	43	45	94	39	41	1212	Zearing	C	Story	42	10	1	93	18	35	1116

# REFERENCE NOTES

## DEFINITIONS

**STATION NAMES:** Name of the city or locality. Figures and letters following the station name indicate the distance and direction from the post office or town community center.

**NORMALS:** The average of the meteorological element over the period from 1981 to 2010. Normals are calculated by the National Climatic Data Center and are revised once every 10 years. The precipitation and snowfall normals are strictly an average of the values recorded during the 1981-2010 period. However, temperature and degree day normals may have been adjusted to better correspond to the current (as of 2010) temperature measurement practice and thus may vary slightly from the average of the original 30-year values.

**DEGREE DAYS:** One heating (cooling) degree day is accumulated for each whole degree that the daily mean temperature [average of the daily maximum and minimum air temperature] is BELOW (ABOVE) 65°F. Degree days are used to provide a measure of the effect of temperature upon energy consumption for heating or cooling of homes or buildings. The greater the heating (cooling) degree day total, the greater the amount of energy needed to heat (cool) your home or building.

**PRECIPITATION:** Values shown in hundredths of an inch are water equivalent totals, i.e., total of liquid (rain) and melted frozen (snow, sleet, hail) precipitation. The snowfall data tables include the unmelted depth of snow and sleet in tenths of an inch. The depth of snow on the ground (SN ON GROUND) refers to the depth of all snow or ice (new or old). This 'Snow on Ground' value is the depth of snow on the ground at the time of the precipitation observation at all stations *except*: Burlington, Davenport, Des Moines, Dubuque, Mason City, Moline, Omaha, Ottumwa, Sioux City and Sioux Falls Airports where the snow depth is measured at 6 a.m. CST while the new snowfall is that for the 24 hour period ending at midnight. Daily precipitation and snowfall amounts are for the 24 hours ending at the time of observation (given in the 'OBS TIME' column). An asterisk in the daily precipitation table indicates that the rain gage was not read that day. A multi-day precipitation total is included in the amount immediately following the asterisks.

**TEMPERATURE:** The daily maximum (MAX) and minimum (MIN) temperatures are recorded for the 24 hours ending at the time of observation. The significance of the time of observation in interpreting these data is discussed in the preceding paragraph.

**TIME OF OBSERVATION:** At most locations measurements of temperature and precipitation are made only once daily at the same hour of the day. This time is referred to as the 'Time of Observation' and is given in the 'OBS TIME' column of the data tables. All observations, unless otherwise noted, are for the 24 hour period ending at the time of observation. Note that in most cases the resulting data are not for calendar day (i.e., midnight-to-midnight) periods and further that the temperature observations may be made at a different time than the precipitation observation at the same station. See the PRECIPITATION paragraph in this section for a further explanation of the significance of the time of observation. All times are expressed on a 24-hour clock (i.e., 7 a.m. = 7; 5 p.m. = 17; midnight = 24, etc.).

## SYMBOLS USED IN THE DAILY AND MONTHLY DATA TABLES.

'    ' Underlined data in the daily temperature, precipitation and snowfall tables indicates that the data in question has been estimated. Estimated data are provided when the original measurements are not available or are of suspect accuracy.

*ITALICS.* Data given in italics in the daily precipitation or snowfall tables indicate that the date on which the precipitation was reported has been changed from what was given on the original reports.

'+' A plus sign in the monthly summarized data tables indicates that the temperature or precipitation extreme given also occurred on one of more earlier dates during the month.

**BLANK ENTRIES:** Blank entries in the monthly summarized data table indicates that no data are available. Blank entries in the daily precipitation and snowfall data tables indicates that no precipitation was recorded. M = missing, no data recorded.

## ABBREVIATIONS:

TMP DEP NOR: Temperature departure from the 1981-2010 normal.

EXT MAX: Extreme maximum temperature for the month and the day on which it was measured.

EXT MIN: Extreme minimum temperature for the month and the day on which it was measured.

MAX 90+: Number of days with maximum temperatures which were greater than or equal to 90°F.

MAX 32-: Number of days with maximum temperatures which were less than or equal to 32°F.

MIN 32-: Number of days with minimum temperatures which were less than or equal to 32°F.

MIN 0°: Number of days with minimum temperatures which were less than or equal to 0°F.

16/16 SEAS: 2016-2017 season (July 1, 2016 through the end of the published month).

NOR SEAS: Normal number of degree days through the end of the published month.

DEP NORM: Monthly precipitation total departure from 1981-2010 normal.

EXT DAY: Extreme one-day precipitation amount and the day on which it occurred.

.01+: Number of days with precipitation of 0.01 inch or greater.

.10+: Number of days with precipitation of 0.10 inch or greater.

1.00+: Number of days with precipitation of 1.00 inch or greater.

MAX ON GRD: Maximum depth of accumulated snow on the ground (inches) and the day on which it was measured.

OBS TIME: Observation Time: The time (24-hour clock) at which the daily temperature and/or precipitation measurement is made (7 = 7 a.m.; 17 = 5 p.m.; 24 = midnight).

DIV: Climate Division: NW = northwest, NC = north central, etc.

LAT: Latitude in degrees and minutes north.

LON: Longitude in degrees and minutes west.

T: Trace: < 0.005" of precipitation; < 0.05" snowfall or < 0.5" snow on ground.

