

## Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years up to the current year for which the annual maximum has been determined.

### MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS

[+--not determined, a--peak stage did not reach bottom of gage, b--ice affected, c--old gage datum, d--estimate, e--peak affected by backwater]

Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>UPPER IOWA RIVER BASIN</b>								
Dry Run Creek near Decorah, IA (05387490)	Lat 43°17'29", long 91°48'33" in SE1/4, sec.20, T.98 N., R.8 W., Winneshiek County, Hydrologic Unit 07060002, on State Highway 9, 0.5 mi west of Decorah. Drainage area 21.0 mi <sup>2</sup> .	1978-	05-22-04	19.45	2,850	08-16-93	20.80	4,620
Waterloo Creek near Dorchester, IA (05388310)	Lat 43°27'04", long 91°30'18", in NW1/4, sec.25, T.100 N., R.6 W., Allamakee County, Hydrologic Unit 07060002, on State Highway 76, 1.4 mi south of Dorchester. Drainage area 43.6 mi <sup>2</sup> .	1966-	03-05-04	11.04	2,620	07-01-78	14.80	9,380
<b>MISSISSIPPI RIVER BASIN</b>								
Mississippi River tributary at McGregor, IA (05389501)	Lat 43°01'12", long 91°11'25", in N1/4, sec.27, T.95 N., R.3 W., Clayton County, Hydrologic Unit 07060001, at culvert on County Road X50, at intersection with U.S. Highway 18 (Business Route), in McGregor. Drainage area 0.72 mi <sup>2</sup> .	1991-	05-23-04 Revised 03-11-95	13.13 Record: 12.86	250 220	03-31-93	13.13	<sup>d</sup> 250
<b>TURKEY RIVER BASIN</b>								
French Hollow Creek near Elkader, IA (05412030)	Lat 42°50'19", long 91°24'25", in SW1/4, sec.26, T.93 N., R.5 W., Clayton County, Hydrologic Unit 07060004, at culvert on State Highway 13, 1.1 mi south of Elkader. Drainage area 3.56 mi <sup>2</sup> .	1991-	05-23-04	20.23	3,300	05-23-04	20.23	3,300
<b>LITTLE MAQUOKETA RIVER BASIN</b>								
Little Maquoketa River at Graf, IA (05414350)	Lat 42°30'09", long 90°51'50", in SE1/4 NW1/4, sec.20, T.89 N., R.1 E., Dubuque County, Hydrologic Unit 07060003, at bridge on county highway, 300 ft downstream from Illinois Central railroad bridge, 0.5 mi northeast of Graf. Drainage area 39.6 mi <sup>2</sup> .	1951-	03-05-04	8.71	1,770	6-4-02	15.93	7,700
Middle Fork Little Maquoketa River near Rickardsville, IA (05414400)	Lat 42°33'38", long 90°51'35", in SE1/4, sec.32, T.90 N., R.1 E., Dubuque County, Hydrologic Unit 07060003, at bridge on county highway, 2 mi southeast of Rickardsville. Drainage area 30.2 mi <sup>2</sup> .	1951-	05-30-04	17.99	3,910	08-02-72	27.70	23,000
North Fork Little Maquoketa River near Rickardsville, IA (05414450)	Lat 42°35'09", long 90°51'20", near NW corner, sec.28, T.90 N., R.1 E., Dubuque County, Hydrologic Unit 07060003, at bridge on county highway, 1 mi northeast of Rickardsville. Drainage area 21.6 mi <sup>2</sup> .	1951-	05-30-04	10.38	2,880	08-02-72	14.02	7,180

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

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Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
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<b>LITTLE MAQUOKETA RIVER BASIN -- continued</b>								
Bloody Run tributary near Sherrill, IA (05414605)	Lat 42°37'13", long 90°45'44", in SE1/4, sec.7, T.90 N., R.2 E., Dubuque County, Hydrologic Unit 07060003, at culvert on county road 1.6 mi northeast of Sherrill. Drainage area 0.59 mi <sup>2</sup>	1991-	05-23-04	17.48	508	06-15-91	19.27	<sup>d</sup> 692
<b>MAQUOKETA RIVER BASIN</b>								
Lamont Creek tributary at Lamont, IA (05416200)	Lat 42°35'22", long 91°38'52", in SE1/4, sec.22, T.90 N., R.7 W., Buchanan County, Hydrologic Unit 07060006, at culvert on State Highway 187, 0.8 mi southwest of Lamont. Drainage area 1.78 mi <sup>2</sup> .	1991-	05-23-04	(+)	(+)	06-01-00	20.13	<sup>d</sup> 635
Sand Creek near Manchester, IA (05416972)	Lat 42°26'57", long 91°28'50", in SE1/4, sec.12, T.88 N., R.6 W., Delaware County, Hydrologic Unit 07060006, at culvert on State Highway 13, 2.7 mi southwest of Manchester. Drainage area 11.0 mi <sup>2</sup> .	1991-	05-23-04	11.80	860	06-04-02	19.31	<sup>d</sup> 4,290
Williams Creek near Charlotte, IA (05418645)	Lat 41°55'55", long 90°31'44", in SE1/4, sec.6, T.82 N., R.4 E., Clinton County, Hydrologic Unit 07060006, at culvert on County Road Y7, 2.1 mi north of County Highway E63, 5 mi southwest of Charlotte. Drainage area 1.77 mi <sup>2</sup> .	1990-	05-23-04	7.89	(+)	05-29-96	13.02	<sup>d</sup> 990
<b>WAPSIPINICON RIVER BASIN</b>								
Little Wapsipinicon River tributary near Riceville, IA (05420600)	Lat 43°21'31", long 92°29'08", near SW1/4 corner, sec. 27, T.99 N., R.14 W., Howard County, Hydrologic Unit 07080102, at culvert on county highway, 3.5 mi east of Riceville. Drainage area 1.10 mi <sup>2</sup> .	1953-	07-06-04	6.52	<sup>d</sup> 7,500	07-06-04	6.52	<sup>d</sup> 7,500
Little Wapsipinicon River near Oran, IA (05420850)	Lat 42°42'53", long 92°02'29", near NW corner, sec.9, T.91 N., R.10 W., Fayette County, Hydrologic Unit 07080102, at bridge on State Highway 3, 2 mi northeast of Oran. Drainage area 94.1 mi <sup>2</sup> .	1966-	05-23-04	91.08	7,190	05-17-99	94.15	12,800
Buck Creek near Oran, IA (05420875)	Lat 42°42'53", long 92°07'33", in NE1/4, sec.10, T.91 N., R.11 W., Bremer County, Hydrologic Unit 07080102, at bridge on State Highway 3, 2.5 mi northwest of Oran. Drainage area 37.9 mi <sup>2</sup> .	1966-	05-23-04	90.70	2,240	05-17-99	91.02	<sup>d</sup> 5,600
Pine Creek tributary near Winthrop, IA (05421100)	Lat 42°29'17", long 91°47'10", in SW1/4, sec.27, T.89 N., R.8 W., Buchanan County, Hydrologic Unit 07080102, at culvert on county road, 2.5 mi northwest of Winthrop. Drainage area 0.33 mi <sup>2</sup> .	1953-	05-22-04	7.61	218	07-17-68	8.97	<sup>d</sup> 334
Wapsipinicon River tributary at Winthrop, IA (05421300) (formerly published as: "Pine Creek trib. no. 2 at Winthrop")	Lat 42°28'06", long 91°44'33", at N1/4 corner sec.2, T.88 N., R.8 W., Buchanan County, Hydrologic Unit 07080102, at culvert on State Highway 939, near west city limits of Winthrop. Drainage area 0.70 mi <sup>2</sup> .	1953-	05-22-04	6.31	74	07-17-68	7.26	570

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

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Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
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<b>IOWA RIVER BASIN</b>								
Silver Creek at Welton, IA (05421890)	Lat 41°54'54", long 90°36'00", in NW1/4, sec.15, T.82 N., R.3 E., Clinton County, Hydrologic Unit 07080103, at bridge on U.S. Highway 61, at north edge of Welton. Drainage area 9.03 mi <sup>2</sup> .	1966-	05-23-04	86.23	412	05-17-74	89.77	<sup>d</sup> 4,820
Westmain drainage ditch 1 & 2 at Britt, IA (05448400) Low-flow site April 1958 to Sept. 1976	Lat 43°06'09", long 93°47'04", in SW1/4, sec.27, T.96 N., R.25 W., Hancock County, Hydrologic Unit 07080207, at bridge on U.S. Highway 18, near east city limits of Britt. Drainage area 21.2 mi <sup>2</sup> .	1966-	05-22-04	83.08	193	04-28-75	83.59	372
East Branch Iowa River above Hayfield, IA (05448600)	Lat 43°09'21", long 93°41'21", at S1/4 corner sec.4, T.96 N., R.24 W., Hancock County, Hydrologic Unit 07080207, at bridge on county highway, 1.5 mi southeast of Hayfield. Drainage area 2.23 mi <sup>2</sup> .	1953-	05-22-04	3.96	29	04-11-01	8.12	(+)
Honey Creek tributary near Radcliffe, IA (0545129280)	Lat 42°19'44", long 93°25'28", in SW1/4, sec.21, T.87 N., R.22 W., Hardin County, Hydrologic Unit 07080207, at culvert on county road highway S27, 1.1 mi northeast of Radcliffe. Drainage area 3.29 mi <sup>2</sup> .	1991-	08-03-04	96.06	55	05-10-95	100.14	<sup>d</sup> 510
Stein Creek near Clutier, IA (05451955)	Lat 42°04'46", long 92°18'00", in NE1/4, sec.24, T.84 N., R.13 W., Tama County, Hydrologic Unit 07080208, at bridge on county highway E36, 5 mi east of Clutier. Drainage area 23.4 mi <sup>2</sup> .	1971-	05-23-04	74.85	1,280	06-15-82	77.92	11,400
Price Creek at Amana, IA (05453200)	Lat 41°48'18", long 91°52'23", in SE1/4, sec.22, T.81 N., R.9 W., Iowa County, Hydrologic Unit 07080208, at bridge on State Highway 151, near north edge of Amana. Drainage area 29.1 mi <sup>2</sup> .	1966-	08-27-04	87.16	3,480	06-17-90	88.80	5,080
North Fork tributary to Mill Creek near Solon, IA (05453430)	Lat 41°50'24", long 91°30'04" in NW1/4, sec.12, T.81 N., R.6 W., Johnson County, Hydrologic Unit 07080208, at culvert on State Highway 1, 2 mi north of Solon. Drainage area 0.78 mi <sup>2</sup> .	1990-	06-14-04	12.76	148	07-16-92	(+)	(+)
Clear Creek tributary near Williamsburg, IA (05454180)	Lat 41°41'16", long 91°57'02", in SE1/4, sec.36, T.80 N., R.10 W., Iowa County, Hydrologic Unit 07080209, at culvert on county road, 4 mi northeast of Williamsburg, 1 mi south of county highway F35. Drainage area 0.37 mi <sup>2</sup> .	1990-	03-05-04	46.37	84	06-17-90	48.76	<sup>d</sup> 291
North English River near Montezuma, IA (05455140)	Lat 41°38'51", long 92°34'16", in SW1/4, sec.14, T.79 N., R.15 W., Poweshiek County, Hydrologic Unit 07080209, at bridge on county highway, 5.0 mi northwest of Montezuma. Drainage area 31.0 mi <sup>2</sup> .	1972-	2004	(a)	<1,020	07-20-78	28.18	4,640
North English River at Guernsey, IA (05455210)	Lat 41°38'42", long 92°21'28", at NW corner sec.22, T.79 N., R.13 W., Poweshiek County, Hydrologic Unit 07080209, at bridge on State Highway 21, 1 mi southwest of Guernsey. Drainage area 81.5 mi <sup>2</sup> .	1960, 1966-	2004	(a)	<2,440	06-15-82	87.43	7,460

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			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	
<b>IOWA RIVER BASIN -- continued</b>									
Deep River at Deep River, IA (05455230)	Lat 41°35'29", long 92°21'18", in SW1/4, sec.3, T.78 N., R.13 W., Poweshiek County, Hydrologic Unit 07080209, at bridge on State Highway 21, 1 mi northeast of Deep River. Drainage area is 30.5 mi <sup>2</sup> .	1960, 1966-	2004	(a)	<856	05-14-70	83.85	6,200	
Bulgers Run near Riverside, IA (05455550)	Lat 41°29'02", long 91°37'36", in SE1/4, sec.11, T.77 N., R.7 W., Washington County, Hydrologic Unit 07080209, at bridge on State Highway 22, 2.5 mi west of Riverside. Drainage area 6.31 mi <sup>2</sup> .	1965-	03-04-04		85.56	472	09-21-65	89.04	3,080
Deer Creek near Carpenter, IA (05457440)	Lat 43°24'54", long 92°59'05", in NW1/4 sec.9, T.99 N., R.18 W., Mitchell County, Hydrologic Unit 07080201, at bridge on State Highway 105, 1.5 mi east of Carpenter. Drainage area 91.6 mi <sup>2</sup> .	1966-	07-06-04		85.75	4,150	07-06-04	85.75	4,150
Gizzard Creek tributary near Bassett, IA (0545776680)	Lat 43°04'01", long 92°34'31", in SE1/4, sec.2, T.95 N., R.15 W., Floyd County, Hydrologic Unit 07080201, at culvert on U.S. Highway 18, 3.3 mi west of Bassett. Drainage area 3.42 mi <sup>2</sup> .	1990-	07-06-04		100.11	(+)	07-21-99	103.00	(+)
Spring Creek near Mason City, IA (05459490)	Lat 43°12'48", long 93°12'38", in SE1/4, sec.16, T.97 N., R.20 W., Cerro Gordo County, Hydrologic Unit 07080203, at bridge on U.S. Highway 65, 4 mi north of Mason City. Drainage area 29.3 mi <sup>2</sup> .	1966-	05-22-04		91.15	5,340	05-22-04	91.15	5,340
Willow Creek near Mason City, IA (05460100)	Lat 43°08'55", long 93°16'07", near center sec.12, T.96 N., R.21 W., Cerro Gordo County, Hydrologic Unit 07080203, at bridge on U.S. Highway 18, 3.5 mi west of Mason City. Drainage area 78.6 mi <sup>2</sup> .	1966-	05-22-04		92.21	1,270	05-22-04	92.21	1,270
Miller Creek near Eagle Center, IA (05464025)	Lat 42°19'22", long 92°20'50", in NW1/4, sec.27, T.87 N., R.13 W., Black Hawk County, Hydrologic Unit 07080205, at culvert on State Highway 21, 1.3 mi southeast of Eagle Center. Drainage area is 9.14 mi <sup>2</sup> .	1991-	05-22-04	(+)	(+)	(+)	05-22-04	(+)	(+)
Prairie Creek tributary near Van Horne, IA (05464535)	Lat 41°59'33", long 92°05'06", in NW1/4, sec.24, T.83 N., R.11 W., Benton County, Hydrologic Unit 07080205, at culvert on County Highway V66, 1.1 mi south of Van Horne. Drainage area is 0.94 mi <sup>2</sup> .	1991-	05-30-04	(a)	<170	05-26-97	18.14	d571	
Thunder Creek at Blairstown, IA (05464562)	Lat 41°54'12", long 92°05'03", in NE1/4, sec.23, T.82 N., R.11 W., Benton County, Hydrologic unit 07080205, at culvert on county highway V66, near city limits of Blairstown. Drainage area 0.96 mi <sup>2</sup> .	1991-	05-30-04		15.58	433	08-16-93	16.12	d540
North Fork Long Creek at Ainsworth, IA (05465150)	Lat 41°16'51", long 91°32'16", Long Creek at in SW1/4, sec.22, T.75 N., R.6 W., Washington County, Hydrologic Unit 07080209, at bridge on U.S. Highway 218, 1 mi southeast of Ainsworth. Drainage area 30.2 mi <sup>2</sup> .	1951, 1965-	05-30-04		89.38	1,490	05-10-96	93.40	(+)

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<b>YELLOW SPRING CREEK BASIN</b>								
Haight Creek at Kingston, IA (05469350)	Lat 40°58'14", long 91°02'30", in NW1/4, sec.12, T.71 N., R.2 W., Des Moines County, Hydrologic Unit 07080104, at culvert on State Highway 99, 0.5 mi south of Kingston. Drainage area 2.67 mi <sup>2</sup> .	1990-	06-14-04	11.55	410	06-16-90	15.18	<sup>d</sup> 1,460
<b>SKUNK RIVER BASIN</b>								
Mud Lake drainage ditch 71, at Jewell, IA (05469860)	Lat 42°18'52", long 93°38'23", in SW1/4, sec.27, T.87 N., R.24 W., Hamilton County, Hydrologic Unit 07080105, at bridge on U.S. Highway 69, in Jewell. Drainage area 65.4 mi <sup>2</sup> .	1966-	05-22-04	87.68	1,110	07-09-93	91.32	3,700
Long Dick Creek near Ellsworth, IA (05469970)	Lat 42°18'37", long 93°32'06", in NW1/4, sec.33, T.87 N., R.23 W., Hamilton County, Hydrologic Unit 07080105, at culvert on State Highway 175, 2.2 mi east of Ellsworth. Drainage area 6.08 mi <sup>2</sup> .	1991-	05-22-04	90.68	(+)	08-17-93	94.73	(+)
Keigley Branch near Story City, IA (05469990)	Lat 42°09'01", long 93°37'13", in NW1/4, sec.26, T.85 N., R.24 W., Story County, Hydrologic Unit 07080105, at bridge on U.S. Highway 69, 3 mi south of Story City. Drainage area 31.0 mi <sup>2</sup> .	1966-	2004	(a)	<228	06-17-96	92.26	<sup>d</sup> 3,440
Snipe Creek tributary at Melbourne, IA (0547209280)	Lat 41°56'08", long 93°05'08", in SE1/4, sec.5, T.82 N., R.19 W., Marshall County, Hydrologic Unit 07080106, at culvert on county highway E63, 0.5 mi east of Melbourne. Drainage area 1.61 mi <sup>2</sup> .	1990-	05-22-04	15.96	228	06-17-90	17.39	<sup>d</sup> 360
Middle Creek near Lacey, IA (05472390)	Lat 41°25'17", long 92°23'04", at N1/4 corner sec.1, T.76 N., R.16 W., Mahaska County, Hydrologic Unit 07080106, at bridge on U.S. Highway 63, 1.5 mi northwest of Lacey. Drainage area 23.0 mi <sup>2</sup> .	1966-	2004	(a)	<94	04-24-76	90.06	9,650
Skunk River tributary near Richland, IA (05472555)	Lat 41°15'50", long 91°57'52", in NE1/4, sec.35, T.75 N., R.10 W., Keokuk County, Hydrologic Unit 07080107, at culvert on county highway W15, 4.9 mi north of Richland, 5.1 mi south of State Highway 92. Drainage area 0.18 mi <sup>2</sup> .	1990-	03-05-04	13.58	17.1	03-16-01	17.08	<sup>d</sup> 120
<b>DES MOINES RIVER BASIN</b>								
Drainage Ditch 97 tributary near Britt, IA (0548065350)	Lat 43°06'42", long 93°54'22", in SW1/4, sec.22, T.96 N., R.26 W., Hancock County, Hydrologic Unit 07100005, at culvert on county road, 5.4 mi northwest of Britt. Drainage area 0.94 mi <sup>2</sup> . (Revised)	1991-	05-22-04	99.24	(+)	05-22-04	99.24	(+)
White Fox Creek at Clarion, IA (05480930)	Lat 42°43'55", long 93°42'26", in NW1/4, sec.5, T.91 N., R.24 W., Wright County, Hydrologic Unit 07100005, at bridge on State Highway 3, 1.5 mi east of Clarion. Drainage area 13.3 mi <sup>2</sup> .	1966-	05-22-04	91.39	572	07-09-93 07-09-03	93.59 93.77	1,400 1,120
Brewers Creek tributary near Webster City, IA (05480993)	Lat 42°26'57", long 93°51'59", in NW1/4, sec.10, T.88 N., R.26 W., Hamilton County, Hydrologic Unit 07100005, at culvert on U.S. Highway 20, 2.5 mi southwest of Webster City. Drainage area 1.58 mi <sup>2</sup> .	1990-	05-22-04	96.68	108	06-04-91	99.25	<sup>d</sup> 544

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<b>DES MOINES RIVER BASIN -- continued</b>									
Bluff Creek at Pilot Mound, IA (05481510)	Lat 42°09'59", long 94°01'11", in NW1/4, sec.20 T.85 N., R.27 W., Boone County, Hydrologic Unit 07100004, at bridge on county road E18 at northwest edge of Pilot Mound. Drainage area 23.5 mi <sup>2</sup> . (Revised)	1966-	05-22-04	85.31	264	07-09-93	89.25	1,120	
Peas Creek tributary at Boone, IA (05481528)	Lat 42°02'06", long 93°51'13", in SW1/4, sec.35, T.84 N., R.26 W., Boone County, Hydrologic Unit 07100004, at culvert on Corporal Rodger Snedden Drive, at intersection with U.S. Highway 30, at the south edge of Boone city limits. Drainage area 0.30 mi <sup>2</sup> .	1990-2004	2004	(+)	(+)	06-17-90	95.19	<sup>d</sup> 239	
Peas Creek at Boone, IA (05481530)	Lat 42°02'04", long 93°51'25", in SE1/4, sec.34, T.84 N., R.26 W., Boone County, Hydrologic Unit 07100004, at culvert on U.S. Highway 30, at the southeast side of Boone city limits. Drainage area 1.69 mi <sup>2</sup> .	1990-	05-23-04	99.41	106	06-15-98	103.05	<sup>d</sup> 410	
Hardin Creek near Farlin, IA (05482900)	Lat 42°05'34, long 94°25'39", in NE1/4 NW1/4 NW1/4, sec. 14, T.84 N., R.31 W., Greene County, Hydrologic Unit 07100006, at bridge on county highway, 1.5 mi northeast of Farlin. Drainage area 101 mi <sup>2</sup> .	1951-	06-16-04	11.27	1,190	07-09-93	13.97	3,010	
Brushy Creek near Templeton, IA (05483318)	Lat 41°56'45", long 94°52'45", in SW1/4 NW 1/4 NW 1/4, sec. 1, T.82 N., R.35 W., Carroll County, Hydrologic Unit 07100007, at bridge on U.S. Highway 71, 4 mi northeast of Templeton. Drainage area 45.0 mi <sup>2</sup> .	1966-	05-23-04	75.46	2,650	07-09-93	93.48	19,000	
Middle Raccoon River tributary at Carroll, IA (05483349)	Lat 42°02'30", long 94°52'43", in NW1/4 NW1/4 SW1/4, sec. 36, T. 84 N., R.35 W., Carroll County Hydrologic Unit 07100007, at bridge on U.S. Highway 71, 1.1 mi south of Carroll. Drainage area 6.58 mi <sup>2</sup> .	1966-	05-23-04	22.77	512	06-17-96	25.88	4,600	
Cedar Creek tributary No. 2 near Winterset, IA (05485940)	Lat 41°19'49", long 94°03'05", in SW1/4, sec.35, T.76 N., R.28 W., Madison County, Hydrologic Unit 07100008, at culvert on State Highway 92, 0.5 mi west of U.S. Highway 169, 1 mi west of Winterset. Drainage area 1.02 mi <sup>2</sup> .	1990-	05-23-04	97.53	336	05-24-96	98.58	<sup>d</sup> 447	
Bush Branch Creek near Stanzel, IA (05486230)	Lat 41°18'57", long 94°16'42", in SW1/4, sec.2, T.75 N., R.30 W., Adair County, Hydrologic Unit 07100008, at culvert on State Highway 92, 1 mi west of Stanzel. Drainage area is 3.02 mi <sup>2</sup> .	1990-	05-23-04	91.45	(+)	09-15-92	97.06	(+)	
Little White Breast Creek tributary near Chariton, IA (05487825)	Lat 41°03'36", long 93°18'12", in SW1/4, sec. 5, T.72 N., R.21 W., Lucas County, Hydrologic Unit 07100008, at culvert on State Highway 14, 2.0 mi north of Chariton. Drainage area 0.05 mi <sup>2</sup> .	1990-	08-27-04	18.26	40	08-19-93	18.93	<sup>d</sup> 56.2	
South Avery Creek near Blakesburg, IA (05489350)	Lat 41°00'59", long 92°37'32", in SE1/4, sec.19, T.72 N., R.15 W., Wapello County, Hydrologic Unit 07100009, at bridge on U.S. Highway 34, 3.5 mi north of Blakesburg. Drainage area 33.1 mi <sup>2</sup> .	1965-	08-27-04	84.69	5,270	07-03-82	90.20	(+)	

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

[+--not determined, a--peak stage did not reach bottom of gage, b--ice affected, c--old gage datum, d--estimate, e--peak affected by backwater]

Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum			
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	
<b>DES MOINES RIVER BASIN -- continued</b>									
Bear Creek at Ottumwa, IA (05489490)	Lat 41°00'52", long 92°27'44", in NW1/4, sec.27, T.72 N., R.14 W., Wapello County, Hydrologic Unit 07100009, at bridge on U.S. Highway 34, near west edge of Ottumwa. Drainage area 22.9 mi <sup>2</sup> .	1965-	08-27-04	90.35	3,000	09-21-65	92.80	4,000	
<b>BIG SIOUX RIVER BASIN</b>									
Dawson Creek near Sibley, IA (06483440)	Lat 43°23'23", long 95°42'53", near NW corner sec.20, T.99 N., R.41 W., Osceola County, Hydrologic Unit 10170204, at culvert on County Highway A30, 2 mi southeast of Sibley. Drainage area 4.35 mi <sup>2</sup> .	1952-	03-02-04	5.52	(+)	06-13-01	9.78	(+)	
Burr Oak Creek near Perkins, IA (06483495)	Lat 43°14'43", long 96°10'38", in SE1/4, sec.5, T.97 N., R.45 W., Sioux County, Hydrologic Unit 10170204, at bridge on U.S. Highway 75, 4 mi north of Perkins. Drainage area 30.9 mi <sup>2</sup> .	1966-	05-23-04	85.23	583	06-20-83	88.37	<sup>d</sup> 6,400	
<b>PERRY CREEK BASIN</b>									
Perry Creek near Merrill, IA (06599800)	Lat 42°43'15", long 96°20'33", in NW1/4, sec.12, T.91 N., R.47 W., Plymouth County, Hydrologic Unit 10230001, at bridge on County Highway C44, 5 mi west of Merrill. Drainage area 8.17 mi <sup>2</sup> .	1953-	05-21-04	10.89	3,970	03-27-62	12.22	(+)	
Perry Creek near Hinton, IA (06599950)	Lat 42°37'11", long 96°22'20", in NE1/4, sec.15, T.90 N., R.47 W., Plymouth County, Hydrologic Unit 10230001, at bridge on county highway, 4 mi west of Hinton. Drainage area 33.1 mi <sup>2</sup> .	1953-	05-22-04	29.32	2,950	06-14-81	38.68	<sup>d</sup> 5,500	
<b>FLOYD RIVER BASIN</b>									
Little Floyd River near Sanborn, IA (06600030)	Lat 43°11'10", long 95°43'30", in NE1/4, sec.31, T.97 N., R.41 W., O'Brien County, Hydrologic Unit 10230002, at bridge on U.S. Highway 18, 3.5 mi west of Sanborn. Drainage area 8.44 mi <sup>2</sup> .	1966-	2004	(a)	<104	03-02-70	89.04	(+)	
Sweeney Creek tributary near Sheldon, IA (06600036)	Lat 43°11'10", long 95°44'38", in SW1/4, sec.25, T.97 N., R.42 W., O'Brien County, Hydrologic Unit 10230002, at culvert on U.S. Highway 18, 4.8 mi east of Sheldon. Drainage area 0.62 mi <sup>2</sup> .	1991-	05-23-04	(a)	<104	07-14-93	99.27	<sup>d</sup> 270	
West Branch Floyd River near Struble, IA (06600300)	Lat 42°55'26", long 96°10'36", in SE1/4, sec.29, T.94 N., R.45 W., Sioux County, Hydrologic Unit 10230002, at bridge on county highway B62, 0.1 mi west of U.S. Highway 75, 2.2 mi northeast of Struble. Drainage area 180 mi <sup>2</sup> .	1996-	05-23-04	10.71	1,300	03-04-94	15.86	8,920	
<b>MONONA-HARRISON DITCH BASIN</b>									
Big Whiskey Slough near Remsen, IA (06601480)	Lat 42°48'28", long 95°53'21", in NW1/4, sec.11, T.92 N., R.43 W., Plymouth County, Hydrologic Unit 10230004, at bridge on State Highway 3, 4.2 mi east of Remsen. Drainage area 12.9 mi <sup>2</sup> .	1966-	05-23-04	87.97	(+)	03-22-79	94.87	(+)	

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

[+--not determined, a--peak stage did not reach bottom of gage, b--ice affected, c--old gage datum, d--estimate, e--peak affected by backwater]

Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum			
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	
<b>MONONA-HARRISON DITCH BASIN -- continued</b>									
Elliott Creek at Lawton, IA (06602190)	Lat 42°28'30", long 96°11'22", in NW1/4, sec.3, T.88 N., R.46 W. Woodbury County, Hydrologic Unit 10230004, at bridge on U.S. Highway 20, at west edge of Lawton. Drainage area 34.8 mi <sup>2</sup> .	1966-	05-23-04	79.68	1,440	06-12-84	86.14	3,150	
<b>LITTLE SIOUX RIVER BASIN</b>									
Ocheyedan River near Ocheyedan, IA (06604510)	Lat 43°25'58", long 95°36'41", in NE1/4, sec.6, T.99 N., R.40 W., Osceola County, Hydrologic Unit 10230003, at bridge on State Highway 9, 4 mi northwest of Ocheyedan. Drainage area 73.5 mi <sup>2</sup> .	1966-	05-23-04	83.06	849	06-29-93	86.79	2,200	
Dry Run Creek near Harris, IA (06604584)	Lat 43°26'42", long 95°27'21", in NE1/4, sec.33, T.100 N., R.39 W., Osceola County, Hydrologic Unit 10230003, at culvert on county highway M12, 1 mi west of Harris. Drainage area 4.30 mi <sup>2</sup> .	1990-	03-02-04 Revised 06-16-90 04-15-91 04-19-92 06-29-93 04-12-94 03-13-95 03-31-96 03-20-97 07-05-98 02-15-99 05-18-00 04-12-01 06-11-02 03-17-03	14.34 Record: 11.03 12.24 10.87 16.58 (a) 13.04 12.02 15.18 (a) 13.60 11.30 12.12 11.51 11.14	<sup>d</sup> 280 (+) 366 222 391 <218 565 (+) 111 <235 (+) (+) 246 38 258	06-29-93 03-13-95	16.58 13.04	390 565	
Prairie Creek near Spencer, IA (06605340)	Lat 43°05'16", long 95°09'40", in SE1/4, sec.36, T.96 N., R.37 W., Clay County, Hydrologic Unit 10230003, at bridge on U.S. Highway 71, 4 mi south of Spencer. Drainage area 22.3 mi <sup>2</sup> .	1966-	05-24-04	90.79	811	07-04-71 06-13-94	90.77 91.05	2,200 1,640	
Willow Creek near Cornell, IA (06605750)	Lat 42°58'21", long 95°09'40", in SE1/4, sec.12, T.94 N., R.37 W., Clay County, Hydrologic Unit 10230003, at bridge on U.S. Highway 71, 2 mi northwest of Cornell. Drainage area 78.6 mi <sup>2</sup> .	1966-	09-16-04	90.68	1,460	03-22-79	91.49	4,200	
Little Sioux River tributary near Peterson, IA (06605868)	Lat 42°55'25", long 95°21'55", in NW1/4, sec.32, T.94 N., R.38 W., Clay County, Hydrologic Unit, 10230003, at culvert on State Highway 10, 1.2 mi northwest of Peterson. Drainage area 0.29 mi <sup>2</sup> .	1991-	05-23-04	85.86	(+)	05-31-93	91.81	(+)	
Willow Creek near Calumet, IA (06606231)	Lat 42°58'05", long 95°32'56" in NE1/4, sec. 15, T.94 N., R.40 W., O'Brian County, Hydrologic Unit 10230003, at culvert on State Highway 10, 1.2 mi north of Calumet. Drainage area 4.13 mi <sup>2</sup> .	1991-	09-15-04	98.70	573	07-14-93	100.92	<sup>d</sup> 1,180	
Halfway Creek at Schaller, IA (0660683710)	Lat 42°30'18", long 95°17'19", in SW1/4, sec.24, T.89 N., R.38 W., Sac County, Hydrologic Unit 10230005, at culvert on State Highway 110, 0.1 mi north of Schaller. Drainage area 1.74 mi <sup>2</sup> .	1990-	02-29-04	93.34	(+)	07-14-92	94.11	(+)	



## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

[+--not determined, a--peak stage did not reach bottom of gage, b--ice affected, c--old gage datum, d--estimate, e--peak affected by backwater]

Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum			
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	
<b>BOYER RIVER BASIN</b>									
Willow Creek near Soldier, IA (06609560)	Lat 41°55'17", long 95°42'05", near S1/4 corner sec.11, T.82 N., R.42 W., Monona County, Hydrologic Unit 10230001, at bridge on State Highway 37, 6 mi southeast of Soldier. Drainage area 29.1 mi <sup>2</sup> .	1966-	05-25-04	71.47	679	07-09-93	84.66	6,840	
<b>MOSQUITO CREEK BASIN</b>									
Moser Creek near Earling, IA (06610510)	Lat 41°46'35", long 95°26'55", in NE1/4, sec.1, T.80 N., R.40 W., Shelby County, Hydrologic Unit 10230006, at bridge on State Highway 37, 1.5 mi west of Earling. Drainage area 21.6 mi <sup>2</sup> .	1966-	05-22-04	77.16	2,190	06-15-84	87.89	(+)	
Mosquito Creek tributary near Neola, IA (06610581)	Lat 41°30'06", long 95°35'44", in NE1/4, sec.6, T.77 N., R.41 W., Pottawattamie County, Hydrologic Unit 10230006, at culvert on State Highway 191, 3.8 mi north of Neola. Drainage area 3.22 mi <sup>2</sup> .	1991-	05-22-04	87.50	1,960	05-22-04	87.50	1,960	
Keg Creek tributary near Mineola, IA (06805849)	Lat 41°07'53", long 95°43'31", in SW1/4, sec.7, T.73 N., R.42 W., Mills County, Hydrologic Unit 10240001, at culvert on county highway H12, 2.4 mi southwest of Mineola. Drainage area 2.01 mi <sup>2</sup> .	1991-	05-23-04	77.74	98	07-10-99	82.97	<sup>d</sup> 600	
<b>NISHNABOTNA RIVER BASIN</b>									
Elm Creek near Jacksonville, IA (0680737930)	Lat 41°38'44", long 95°12'18", in SW1/4, sec.18, T.79 N., R.37 W., Shelby County, Hydrologic Unit 10240002, at culvert on State Highway 44, 2.8 mi west of Jacksonville. Drainage area 9.43 mi <sup>2</sup> .	1990-	05-23-04	98.47	3,140	05-23-04	98.47	3,140	
Indian Creek near Emerson, IA (06807470)	Lat 41°01'50", long 95°22'51", in NW1/4, sec.19, T.72 N., R.39 W., Montgomery County, Hydrologic Unit 10240002, at bridge on U.S. State Highway 34, 1 mi east of Emerson. Drainage area 37.3 mi <sup>2</sup> .	1966-	07-15-04	83.15	680	06-15-82 08-07-99	92.63 94.32	15,800 (+)	
Bluegrass Creek at Audubon, IA (06808880)	Lat 41°42'46", long 94°44'46", in NW1/4, sec.28, T.80 N., R.35 W., Audubon County, Hydrologic Unit 10240003, at bridge on U.S. Highway 71, near south edge of Audubon. Drainage area 15.4 mi <sup>2</sup> .	1966-	05-23-04	86.16	2,570	07-09-93	88.55	(+)	
<b>TARKIO RIVER BASIN</b>									
Tarkio River near Elliott, IA (06811760)	Lat 41°06'06", long 95°06'09", near NE corner sec.28, T.73 N., R.37 W., Montgomery County, Hydrologic Unit 10240005, at bridge on county highway, 4.5 mi southeast of Elliott. Drainage area 10.7 mi <sup>2</sup> .	1952-	2004	(a)	<374	08-29-93	12.98	4,640	
East Tarkio Creek near Stanton, IA (06811800)	Lat 41°04'48", long 95°05'34", in W1/2 sec.34, T.73 N., R.37 W., Montgomery County, Hydrologic Unit 10240005, at bridge on county highway H24, 7 mi north of Stanton. Drainage area 4.66 mi <sup>2</sup> .	1952-	05-23-04	5.19	218	06-09-67	13.74	4,790	

## MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS—Continued

[+--not determined, a--peak stage did not reach bottom of gage, b--ice affected, c--old gage datum, d--estimate, e--peak affected by backwater]

Station name and number	Location and drainage area	Period of record	Water year 2004 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>TARKIO RIVER BASIN -- continued</b>								
Tarkio River tributary near Stanton, IA (06811820)	Lat 41°02'38", long 95°05'55", in NE1/4 sec.16, T.72 N., R.37 W., Montgomery County, Hydrologic Unit 10240005, at box culvert on county highway H63, 4 mi north of Stanton. Drainage area 0.67 mi <sup>2</sup> .	1952-	2004	94.54	(+)	06-23-99	5.56	1,070
Snake Creek near Yorktown, IA (06811875)	Lat 40°44'33", long 95°07'46", in NW1/4, sec.32, T.69 N., R.37 W., Page County, Hydrologic Unit 10240005, at bridge on State Highway 2, 1.5 mi northeast of Yorktown. Drainage area 9.10 mi <sup>2</sup> .	1966-1991-1997-	05-30-04	85.35	(+)	07-09-87	95.24	3,080
<b>NODAWAY RIVER BASIN</b>								
West Nodaway River at Massena, IA (06816290)	Lat 41°14'44", long 94°45'27", in SE1/4, sec.33, T.75 N., R.34 W., Cass County, Hydrologic Unit 10240009, at bridge on State Highway 148, at southeast corner of Massena. Drainage area 23.4 mi <sup>2</sup> .	1966-	08-04-04	76.19	1,270	02-01-73	82.39	<sup>d</sup> 4,700
<b>PLATTE RIVER BASIN</b>								
Platte River near Diagonal, IA (06818750)	Lat 40°46'02", long 94°24'46", in NW1/4, sec. 22, T.69 N., R.31 W., Ringgold County, Hydrologic Unit 10240012, at bridge on county highway, 2.2 mi upstream from Turkey Creek, 4.6 mi southwest of Diagonal, and 4.9 mi downstream from Gard Creek. Drainage area 217 mi <sup>2</sup> .	1968-1991-1997-	08-04-04	16.57	3,400	09-09-89	23.60	8,630
Middle Branch 102 River near Gravity, IA (06819110)	Lat 40°49'40", long 94°44'18", in SE1/4, sec.27, T.70 N., R.34 W., Taylor County, Hydrologic Unit 10240013, at bridge on State Highway 148, 4.8 mi north of Gravity. Drainage area 34.5 mi <sup>2</sup> .	1966-	08-04-04	64.80	1,200	02-01-73 07-05-93	c83.65 82.30	(+) 6,250
<b>GRAND RIVER BASIN</b>								
Sevenmile Creek, near Thayer, IA (06897858)	Lat 41°01'37", long 94°00'03", in SE1/4, sec.18, T.72 N., R.27 W., Clarke County, Hydrologic Unit 10280102, at culvert on U.S. Highway 34, 2.6 mi east of Thayer. Drainage area 6.61 mi <sup>2</sup> .	1991-	08-27-04	16.50	(+)	09-15-92	24.92	<sup>d</sup> 1,330
Elk Creek near Decatur City, IA (06897950)	Lat 40°43'18", long 93°56'12", in SE1/4, sec. 34, T.69 N., R.27 W., Decatur County, Hydrologic Unit 10280102, at bridge on county Highway, 1,000 ft. downstream from West Elk Creek, 5.8 mi. upstream from mouth, and 5.5 mi. (Revised) west of Decatur City. Drainage area 52.5 mi <sup>2</sup> .	1968-	08-27-04	26.39	12,700	07-05-93	29.93	32,800

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# Conversion Factors

Multiply	By	To obtain
<b>Length</b>		
inch (in.)	$2.54 \times 10^1$	millimeter (mm)
	$2.54 \times 10^{-2}$	meter
foot (ft)	$3.048 \times 10^{-1}$	meter (m)
mile (mi)	$1.609 \times 10^0$	kilometer (km)
<b>Area</b>		
acre	$4.047 \times 10^3$	square meter (m <sup>2</sup> )
	$4.047 \times 10^{-1}$	square hectometer (hm <sup>2</sup> )
	$4.047 \times 10^{-3}$	square kilometer (km <sup>2</sup> )
square mile (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometer (km <sup>2</sup> )
<b>Volume</b>		
gallon (gal)	$3.785 \times 10^0$	liter (L)
	$3.785 \times 10^{-3}$	cubic meter (m <sup>3</sup> )
	$3.785 \times 10^0$	cubic decimeter (dm <sup>3</sup> )
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter (m <sup>3</sup> )
	$3.785 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^{-2}$	cubic meter (m <sup>3</sup> )
	$2.832 \times 10^1$	cubic decimeter (dm <sup>3</sup> )
cubic-foot-per-second-per-day [(ft <sup>3</sup> /s/d)]	$2.447 \times 10^3$	cubic meter (m <sup>3</sup> )
	$2.447 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
acre-foot (acre-ft)	$1.223 \times 10^3$	cubic meter (m <sup>3</sup> )
	$1.223 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
	$1.223 \times 10^{-6}$	cubic kilometer (km <sup>3</sup> )
<b>Flow rate</b>		
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$	liter (L/s)
	$2.832 \times 10^{-2}$	cubic meter per second (m <sup>3</sup> /s)
	$2.832 \times 10^1$	cubic decimeter per second (dm <sup>3</sup> /s)
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second (L/s)
	$6.309 \times 10^{-5}$	cubic meter per second (m <sup>3</sup> /s)
	$6.309 \times 10^{-2}$	cubic decimeter per second (dm <sup>3</sup> /s)
million gallons per day (Mgal/d)	$4.381 \times 10^{-2}$	cubic meter per second
	$4.381 \times 10^1$	cubic decimeter per second (dm <sup>3</sup> /s)
<b>Mass</b>		
ton, short (2,000 lb)	$9.072 \times 10^{-1}$	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

