Water-Data Report 2012

05478265 East Fork Des Moines River near Algona, IA

Des Moines Basin
East Fork Des Moines Subbasin

LOCATION.--Lat 43°04'56.2", long 94°13'51.1" referenced to North American Datum of 1983, in NW ¼ NE ¼ NE ¼ sec.2, T.95 N., R.29 W., Kossuth County, IA, Hydrologic Unit 07100003, on left bank on downstream side of bridge on State Highway 18 in Algona, and 374.4 mi upstream from mouth of Des Moines River.

DRAINAGE AREA.--884 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Stage-only records from March 2009 to September 2011 (no winter records); discharge records from October 2011 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,098.74 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry at station.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 05478265, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/05478265.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.1	8.2	e8.7	e8.2	e3.7	871	40	111	692	226	5.6	3.3
2	10	7.8	e7.0	e4.9	e3.9	888	35	134	679	203	6.0	3.1
3	10	7.5	e8.1	e3.8	e4.3	755	33	168	669	181	6.1	2.9
4	5.9	7.9	e7.6	e6.2	e4.7	442	28	400	656	161	8.1	2.7
5	5.6	10	e6.6	8.6	e3.6	265	24	773	628	141	7.0	10
6	7.0	12	e4.1	9.2	e4.3	283	21	1,060	587	125	6.0	9.4
7	7.9	14	e4.9	9.8	e4.0	329	23	1,200	556	109	6.5	7.7
8	7.2	14	e6.0	e8.5	e4.2	345	20	1,300	514	92	7.4	6.7
9	9.8	10	e2.7	9.3	e4.0	197	17	1,300	473	80	7.0	6.6
10	11	9.1	e3.0	9.2	e3.7	165	15	1,190	431	81	6.2	6.5
11	8.9	9.4	e3.3	e8.3	e3.2	135	13	1,050	408	64	5.4	3.5
12	9.2	11	e3.9	e5.7	e3.7	128	12	919	363	54	5.4	2.6
13	10	12	5.2	e3.2	e3.8	120	14	819	347	47	5.3	2.3
14	11	13	6.3	e2.6	e4.2	102	19	754	332	44	4.8	2.0
15	12	14	9.1	e2.8	e4.4	93	35	699	319	38	5.0	1.9
16	13	13	e7.3	e3.8	e4.7	80	47	648	350	26	5.5	1.8
17	12	12	e7.9	e2.6	e5.1	71	40	597	376	21	5.2	1.7
18	9.2	11	e8.6	e2.3	e4.9	66	37	559	345	18	5.0	1.7
19	8.6	12	e8.9	e1.3	e5.0	67	55	497	304	16	4.8	1.8
20	8.2	13	e6.2	e1.1	e8.2	86	166	441	285	13	4.3	1.7
21	8.0	13	e6.8	e0.79	e19	102	227	404	638	10	4.2	1.6
22	8.6	13	e4.6	e1.4	41	97	218	390	1,030	9.4	4.2	1.4
23	6.7	14	e3.5	e1.9	38	98	189	362	1,060	10	4.2	1.1
24	6.8	15	e4.1	e2.3	39	81	168	349	907	9.4	4.0	0.91
25	7.7	15	e4.4	e2.7	35	81	158	466	660	8.6	4.6	0.88
26	7.6	16	5.5	e3.0	34	75	136	653	497	9.1	5.3	0.99
27	7.6	16	5.7	e3.2	29	65	113	828	396	6.6	4.9	1.0
28	7.5	16	5.8	e3.1	52	64	108	888	337	6.5	4.4	1.1
29	7.1	e14	6.1	e2.9	420	50	113	829	281	6.4	4.1	1.1
30	7.9	e11	9.0	e3.2	---	43	109	740	249	5.5	3.6	1.1
31	8.1	---	10	e4.0	---	39	---	708	---	5.9	3.4	---
Total	269.2	363.9	190.9	139.89	794.6	6,283	2,233	21,236	15,369	1,827.4	163.5	91.08
Mean	8.68	12.1	6.16	4.51	27.4	203	74.4	685	512	58.9	5.27	3.04
Max	13	16	10	9.8	420	888	227	1,300	1,060	226	8.1	10
Min	5.6	7.5	2.7	0.79	3.2	39	12	111	249	5.5	3.4	0.88
Ac-ft	534	722	379	277	1,580	12,460	4,430	42,120	30,480	3,620	324	181
Cfsm	0.01	0.01	0.01	0.01	0.03	0.23	0.08	0.77	0.58	0.07	0.01	0.00
In.	0.01	0.02	0.01	0.01	0.03	0.26	0.09	0.89	0.65	0.08	0.01	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.68	12.1	6.16	4.51	27.4	203	74.4	685	512	58.9	5.27	3.04
Max	8.68	12.1	6.16	4.51	27.4	203	74.4	685	512	58.9	5.27	3.04
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)
Min	8.68	12.1	6.16	4.51	27.4	203	74.4	685	512	58.9	5.27	3.04
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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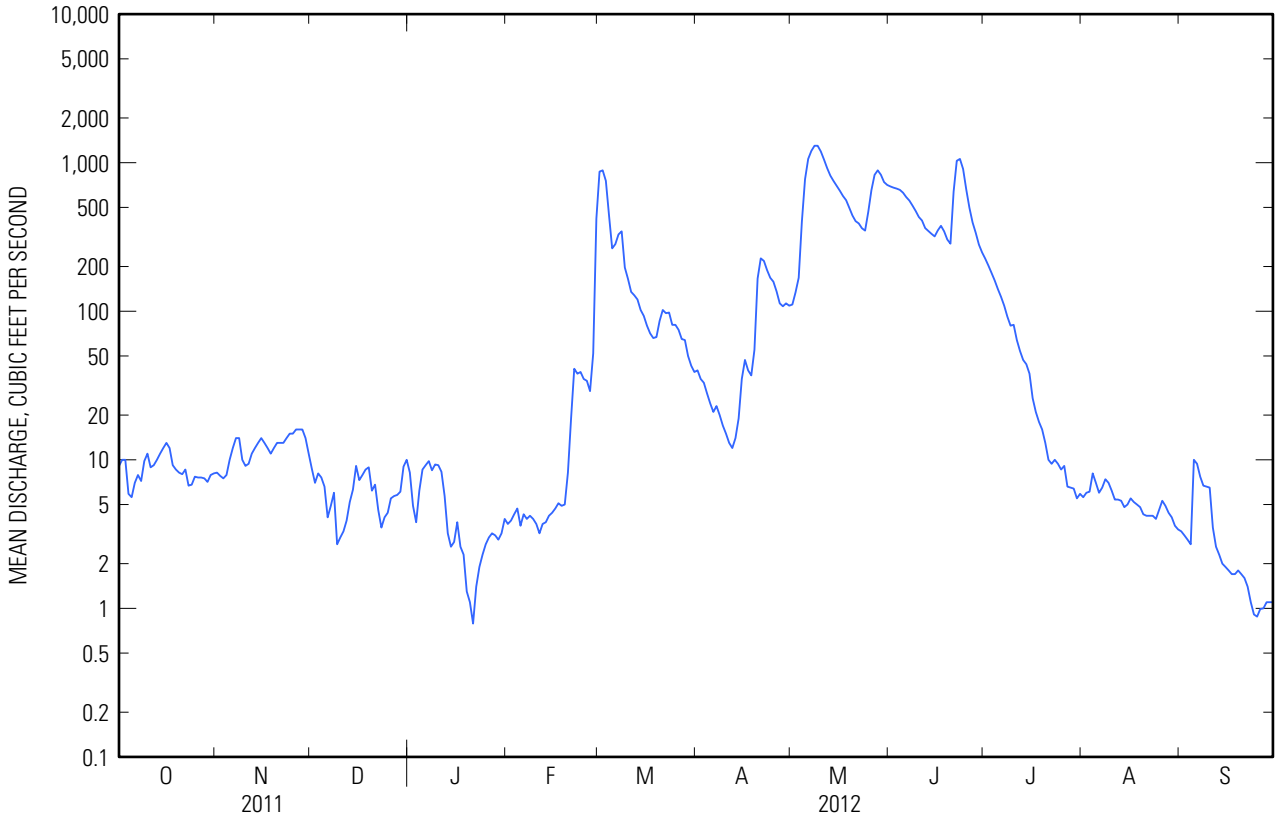
SUMMARY STATISTICS

	Water Year 2012		Water Years 2011 - 2012	
Annual total	48,961.47			
Annual mean	134		134	
Highest annual mean			134	2012
Lowest annual mean			134	2012
Highest daily mean	1,300	May 8[a]	1,300	May 8, 2012[a]
Lowest daily mean	0.79	Jan 21	0.79	Jan 21, 2012
Annual seven-day minimum	1.0	Sep 23	1.0	Sep 23, 2012
Maximum peak flow	1,330	May 8	1,330	May 8, 2012
Maximum peak stage	12.27	May 8	19.47	Mar 16, 2010
Annual runoff (ac-ft)	97,120		96,910	
Annual runoff (cfsm)	0.151		0.151	
Annual runoff (inches)	2.06		2.06	
10 percent exceeds	502		502	
50 percent exceeds	10		10	
90 percent exceeds	3.1		3.1	

[a] Also May 9, 2012.