

Water-Data Report 2011

**434244090470801 DISCOVERY FARMS-JERSEY WATERWAY 2 NEAR CASHTON, WI**

Wisconsin Basin  
Kickapoo Subbasin

LOCATION.--Lat 43°42'43.7", long 90°47'07.8" referenced to North American Datum of 1983, in SE ¼ SW ¼ SW ¼ sec.6, T.14 N., R.3 W., Vernon County, WI, Hydrologic Unit 07070006.

DRAINAGE AREA.--0.025 mi<sup>2</sup>, 16.0 acres

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2010 to September 2011.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,240 ft above NAVD88, from topographic map.

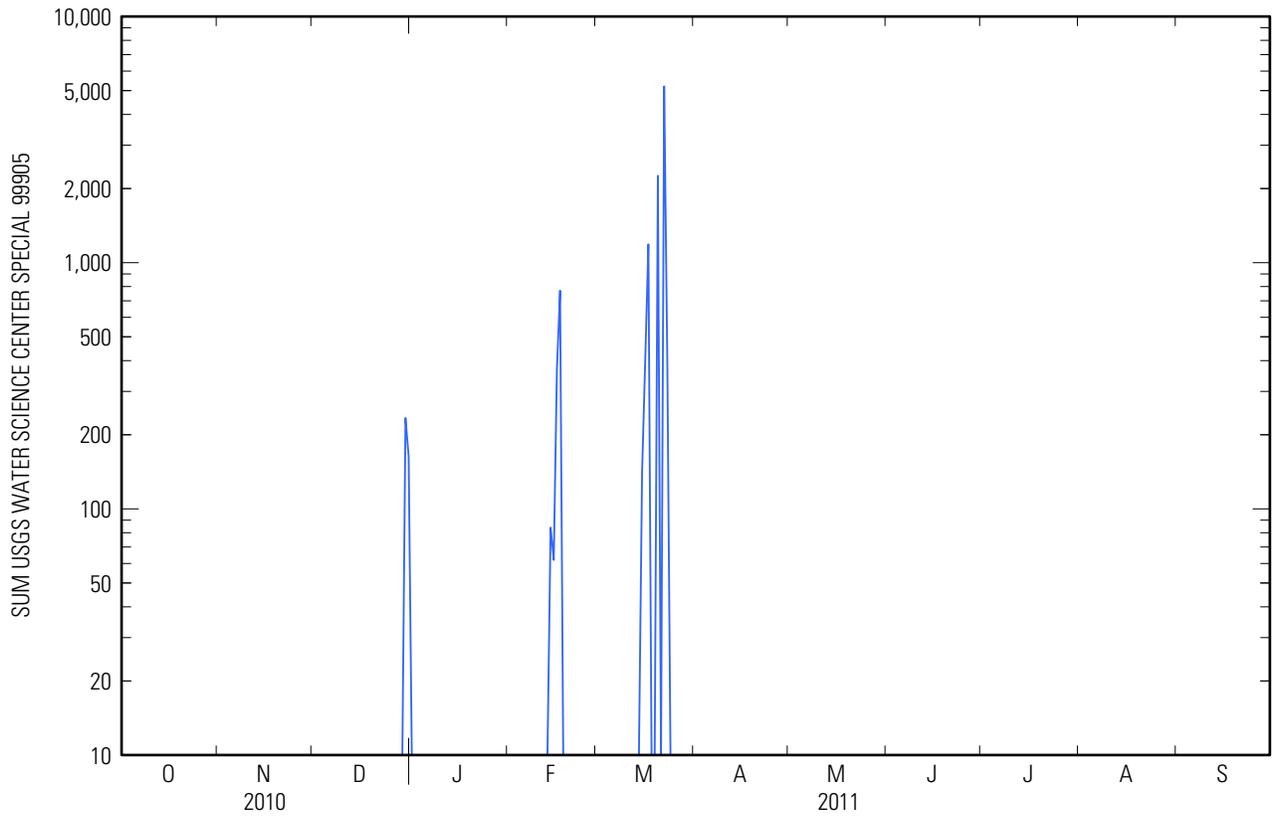
REMARKS.--Records are good, except for estimated days which are fair. Note that discharge is the daily sum, in cubic feet.

## 434244090470801 DISCOVERY FARMS-JERSEY WATERWAY 2 NEAR CASHTON, WI—Continued

**DAILY SUM DISCHARGE, CUBIC FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	0	0	0	0	0	0	0	0	0	0	0
2	---	0	0	0	0	0	0	0	0	0	0	0
3	---	0	0	0	0	0	0	0	0	0	0	0
4	---	0	0	0	0	0	0	0	0	0	0	0
5	---	0	0	0	0	0	0	0	0	0	0	0
6	---	0	0	0	0	0	0	0	0	0	0	0
7	---	0	0	0	0	0	0	0	0	0	0	0
8	---	0	0	0	0	0	0	0	0	0	0	0
9	---	0	0	0	0	0	0	0	0	0	0	0
10	---	0	0	0	0	0	0	0	0	0	0	0
11	---	0	0	0	0	0	0	0	0	0	0	0
12	---	0	0	0	0	0	0	0	0	0	0	0
13	---	0	0	0	0	0	0	0	0	0	0	0
14	---	0	0	0	84	0	0	0	0	0	0	0
15	---	0	0	0	62	141	0	0	0	0	0	0
16	---	0	0	0	369	402	0	0	0	0	0	0
17	---	0	0	0	770	1,187	0	0	0	0	0	0
18	---	0	0	0	0	0	0	0	0	0	0	0
19	---	0	0	0	0	0	0	0	0	0	0	0
20	---	0	0	0	0	2,255	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	5,203	0	0	0	0	0	0
23	0	0	0	0	0	395	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	234	0	---	0	0	0	0	0	0	0
31	0	---	163	0	---	0	---	0	---	0	0	---
<b>Total</b>	---	0	397	0	1,285	9,583	0	0	0	0	0	0
<b>Mean</b>	---	0	13	0	46	309	0	0	0	0	0	0
<b>Max</b>	---	0	234	0	770	5,203	0	0	0	0	0	0
<b>Min</b>	---	0	0	0	0	0	0	0	0	0	0	0

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## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2010 to September 2011.

INSTRUMENTATION.--Water-quality sampler since October 2010.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab at the University of Wisconsin-Stevens Point. Samples with end dates/times are flow-composite samples collected by an automatic point sampler which represent the event-mean concentration for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same sampler. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. In most cases, the sample runoff volume is slightly less than the total storm runoff volume. Some runoff events were not sampled. An approximate storm load (in pounds) can be computed by multiplying the sample runoff volume (in cubic feet) by the constituent concentration (in mg/L) and a factor of  $6.2428 \times 10^{-5}$ .

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 2

[N, nitrogen; P, phosphorus; mg/L, milligrams per liter]

Date	Sample start time	End date	End time	Sampling method (82398)	Dissolved solids dried at 105 degrees Celsius, water, filtered, milligrams per liter (00515)	Chloride, water, filtered, mg/L (00940)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Hydrolyzable phosphorus, water, filtered, milligrams per liter as phosphorus (00672)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
12-30-2010	1945	12-31-2010	0300	Point sample	72	2.7	2.2	.790	.518	.600
02-16-2011	1345	02-17-2011	1715	Point sample	90	4.6	3.5	1.89	.402	.100
03-16-2011	1330	03-16-2011	1900	Point sample	62	1.8	2.6	.930	.253	.100
03-17-2011	1400	03-17-2011	2215	Point sample	30	1.3	1.5	.630	.566	.300
03-20-2011	0845	03-20-2011	1600	Point sample	100	8.9	2.9	.760	.498	.500
03-22-2011	1045	03-22-2011	1615	Point sample	120	3.9	2.6	.540	.449	.400
03-22-2011	1755	03-23-2011	0800	Point sample	140	5.2	4.7	1.46	.962	.600

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 2

[N, nitrogen; P, phosphorus; mg/L, milligrams per liter]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended sediment concentration, mg/L (80154)	Sample runoff volume, cubic feet (99906)
12-30-2010	1945	.636	17	396
02-16-2011	1345	.491	34	1,130
03-16-2011	1330	.420	27	396
03-17-2011	1400	.664	71	1,180
03-20-2011	0845	.801	143	2,250
03-22-2011	1045	.761	134	1,120
03-22-2011	1755	1.43	118	4,460