

Water-Data Report 2011

**435414087471400 DISCOVERY FARMS WATERWAY NUMBER 3 NEAR CLEVELAND, WI**

Northwestern Lake Michigan Basin  
Manitowoc-Sheboygan Subbasin

LOCATION.--Lat 43°54'13.7", long 87°47'14.4" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.31, T.17 N., R.23 E., Manitowoc County, WI, Hydrologic Unit 04030101.

DRAINAGE AREA.--0.078 mi<sup>2</sup>, 5 acres (estimated)

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2007 to September 2011 (discontinued).

GAGE.--Water-stage recorder. Water levels are controlled by 1.5 ft H flume. Elevation of gage is 715 ft above NGVD of 1929, from topographic map.

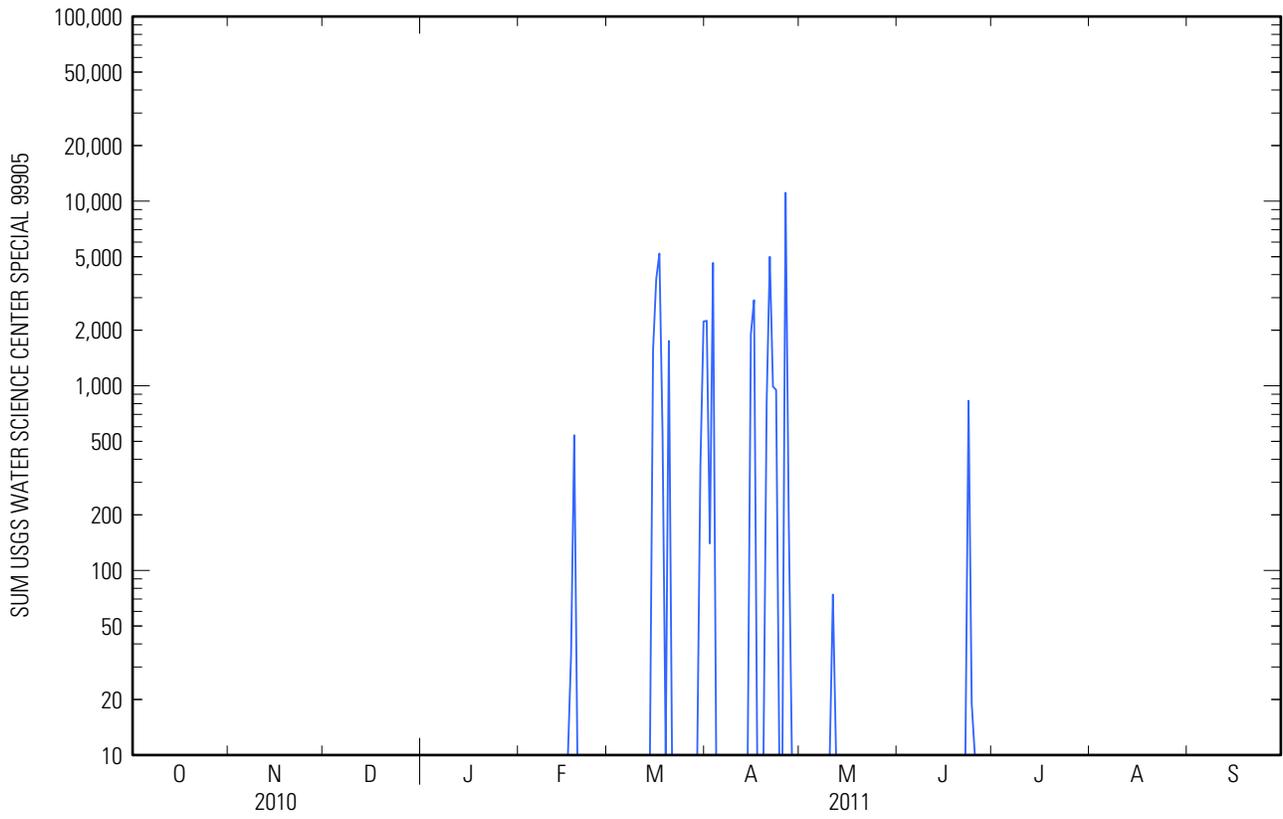
REMARKS.--Records are good, except for estimated days which are fair. Note that discharge is the daily sum, in cubic feet.

## 435414087471400 DISCOVERY FARMS WATERWAY NUMBER 3 NEAR CLEVELAND, WI—Continued

**DAILY SUM DISCHARGE, CUBIC FEET**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY SUM VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	2,250	0	0	0	0	0
2	0	0	0	0	0	0	140	0	0	0	0	0
3	0	0	0	0	0	0	4,630	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	74	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	1,570	1,910	0	0	0	0	0
16	0	0	0	0	0	3,790	2,910	0	0	0	0	0
17	0	0	0	0	35	5,200	0	0	0	0	0	0
18	0	0	0	0	540	550	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	1,750	810	0	0	0	0	0
21	0	0	0	0	0	0	5,000	0	0	0	0	0
22	0	0	0	0	0	0	990	0	0	0	0	0
23	0	0	0	0	0	0	950	0	830	0	0	0
24	0	0	0	0	0	0	0	0	19	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	11,100	0	0	0	0	0
27	0	0	0	0	0	0	190	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	0	0	---	370	0	0	0	0	0	0
31	0	---	0	0	---	e2,230	---	0	---	0	0	---
<b>Total</b>	0	0	0	0	575	15,460	30,880	74	849	0	0	0
<b>Mean</b>	0	0	0	0	21	500	1,030	2	28	0	0	0
<b>Max</b>	0	0	0	0	540	5,200	11,100	74	830	0	0	0
<b>Min</b>	0	0	0	0	0	0	0	0	0	0	0	0

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## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2007 to September 2011 (discontinued).

INSTRUMENTATION.--Water-quality sampler since October 2007.

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; <, less than]

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)
03-15-2011	1515	03-16-2011	0115	Point sample	352	33.2	2.3	.390	1.019	4.00
03-16-2011	1300	03-16-2011	2345	Point sample	278	23.5	1.8	.360	.846	3.10
03-17-2011	1000	03-18-2011	0100	Point sample	222	19.3	1.2	.180	.677	2.10
03-20-2011	1305	03-20-2011	2245	Point sample	262	23.6	1.6	.270	.649	1.30
04-03-2011	1130	04-03-2011	1815	Point sample	288	27.5	2.2	.670	.677	.900
04-15-2011	2015	04-16-2011	0524	Point sample	266	23.9	2.5	.490	.813	1.60
04-21-2011	1340	04-21-2011	2100	Point sample	278	19.6	1.1	.160	.468	.100
04-22-2011	2000	04-23-2011	0545	Point sample	330	24.3	1.3	.080	.386	< .100
04-26-2011	0445	04-26-2011	1545	Point sample	202	11.7	1.6	.170	.554	.100
06-23-2011	2115	06-24-2011	0015	Point sample	200	6.2	2.5	.260	1.293	.400

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

Part 2 of 2

[N, nitrogen; P, phosphorus; mg/L, milligrams per liter; &lt;, less than]

Date	Sample start time	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended	Sample runoff volume, cubic feet (99906)
			sediment concentration, mg/L (80154)	
03-15-2011	1515	1.13	19	1,640
03-16-2011	1300	.934	25	3,700
03-17-2011	1000	.721	25	5,270
03-20-2011	1305	.718	30	1,740
04-03-2011	1130	.770	21	3,190
04-15-2011	2015	1.03	15	3,370
04-21-2011	1340	.529	< 2	3,020
04-22-2011	2000	.460	< 2	1,930
04-26-2011	0445	.692	12	11,100
06-23-2011	2115	1.45	20	834