

Water-Data Report 2010

423846090171600 DISCOVERY FARMS WATERWAY SITE NO. 3 NEAR BELMONT, WI

Upper Mississippi-Maquoketa-Plum Basin
Apple-Plum Subbasin

LOCATION.--Lat 42°38'46", long 90°17'16" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.17, T.2 N., R.2 E., Lafayette County, WI, Hydrologic Unit 07060005, 2600 ft south of intersection of Pleasant View Rd. and St. Peters Rd., 400 ft east of Pleasant View Rd. in waterway, 6.8 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--0.0617 mi², 39.5 acres.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2003 to September 2010.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Elevation of gage is 1,018 ft above NGVD of 1929, from topographic map.

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

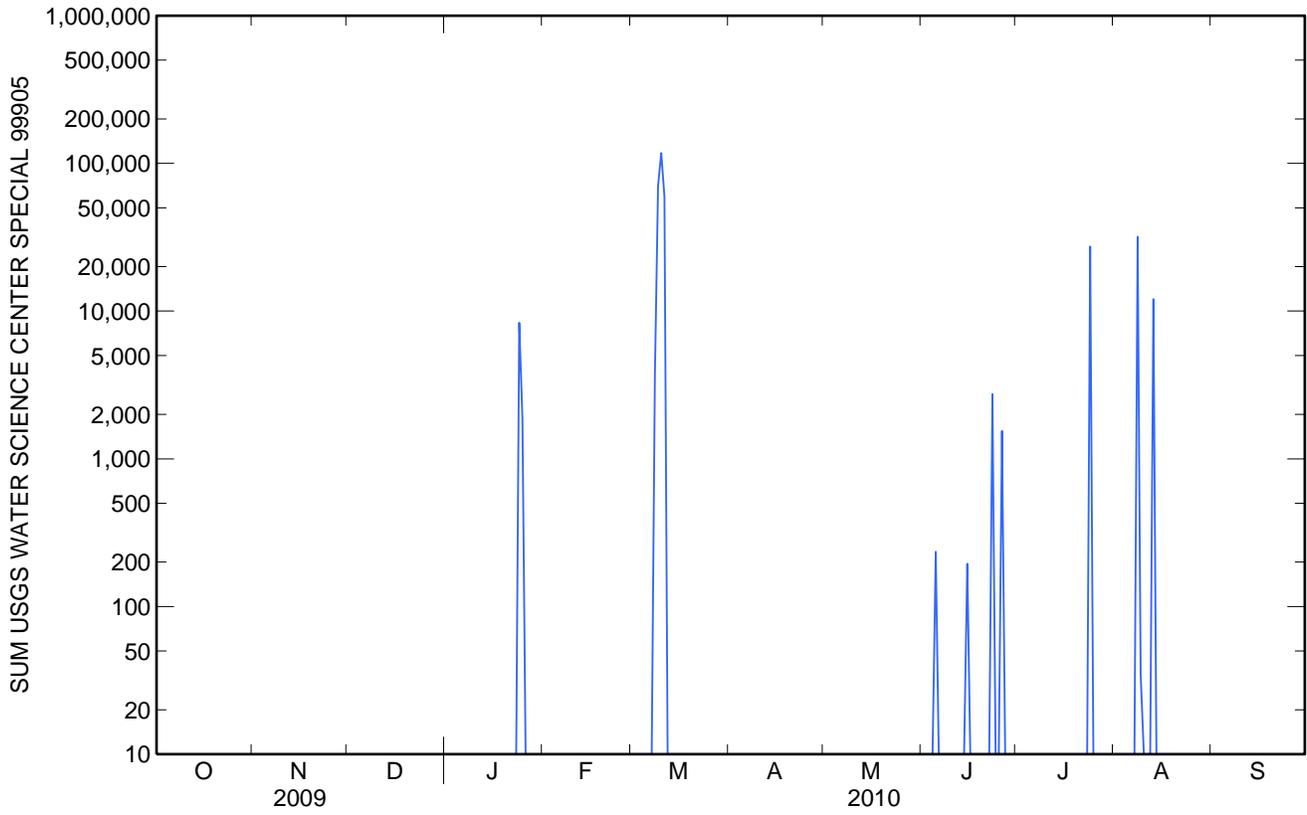
REVISIONS.--WDR WI-06-1: 2004-05.

423846090171600 DISCOVERY FARMS WATERWAY SITE NO. 3 NEAR BELMONT, WI—Continued

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
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	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	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	235	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	3,689	0	0	0	0	31,740	0
9	0	0	0	0	0	70,740	0	0	0	0	35	0
10	0	0	0	0	0	117,600	0	0	0	0	0	0
11	0	0	0	0	0	59,430	0	0	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	12,070	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	195	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	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	0	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	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	2,738	0	0	0
24	0	0	0	8,348	0	0	0	0	0	27,350	0	0
25	0	0	0	1,888	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	1,545	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	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
Total	0	0	0	10,236	0	251,459	0	0	4,713	27,350	43,845	0
Mean	0	0	0	330	0	8,112	0	0	157	882	1,414	0
Max	0	0	0	8,348	0	117,600	0	0	2,738	27,350	31,740	0
Min	0	0	0	0	0	0	0	0	0	0	0	0

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to September 30, 2010

REVISED RECORDS.--WDR WI-06-1: 2004-05 (runoff volumes).

INSTRUMENTATION.--Water-quality sampler December 2003 to September 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 6.2428×10^{-5} .

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 2

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

Date	End date	Sample start time	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)
01-24-2010	01-25-2010	1358	1000	Point sample	36	< .5	1.3	.570	.83	.900
03-08-2010	03-09-2010	1800	1225	Point sample	94	.5	2.5	1.40	.98	1.00
03-09-2010	03-09-2010	1225	2059	Point sample	84	< .5	1.9	1.07	.94	.700
03-09-2010	03-10-2010	2059	1040	Point sample	82	< .5	1.9	1.03	1.00	.600
03-10-2010	03-11-2010	1040	0726	Point sample	86	< .5	1.8	.920	.98	.700
03-11-2010	03-11-2010	0726	1900	Point sample	112	.6	2.5	.790	1.05	1.20
06-05-2010	06-05-2010	1916	1953	Point sample	82	< .5	3.6	.080	.93	.200
06-23-2010	06-23-2010	0432	0555	Point sample	116	< .5	4.8	.110	.88	.200
06-26-2010	06-26-2010	0131	0256	Point sample	90	.7	2.5	.040	1.09	.100
07-24-2010	07-24-2010	0149	0358	Point sample	60	< .5	1.3	.090	.64	< .100
07-24-2010	07-24-2010	0358	0622	Point sample	68	< .5	1.5	.170	.92	< .100
08-08-2010	08-08-2010	0854	1153	Point sample	90	1.4	6.5	.470	1.46	.500
08-13-2010	08-13-2010	1630	1823	Point sample	72	< .5	2.5	.210	1.15	.600

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 2

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

Date	Phosphorus, water, unfiltered, mg/L as P (00665)	Suspended	Sample runoff volume, cubic feet (99906)
		sediment concen- tration, mg/L (80154)	
01-24-2010	.893	< 2	10,200
03-08-2010	1.23	22	10,300
03-09-2010	1.08	23	46,600
03-09-2010	1.17	19	90,200
03-10-2010	1.16	30	48,200
03-11-2010	1.42	147	56,100
06-05-2010	1.59	228	219
06-23-2010	2.13	789	2,730
06-26-2010	1.44	313	1,540
07-24-2010	.767	51	25,200
07-24-2010	1.09	33	2,090
08-08-2010	4.50	124	31,700
08-13-2010	1.58	173	12,100