

Water-Data Report 2009

431113088281000 DISCOVERY FARMS TILE SITE NO. 1 NEAR MAPLETON, WI

Undefined Aquifer

Undefined Aquifer

Waukesha County, WI

LOCATION.--Lat 43°11'13", long 88°28'10" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.3, T.8 N., R.17 E., Waukesha County, WI, Hydrologic Unit 07090001, 0.5 mile to the east of O'Neil Rd. just after crossing the railroad tracks, 5 miles north of Oconomowoc, WI.

DRAINAGE AREA.--1563 mi², 100 acres (estimated).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2005 to October 2009 (discontinued).

GAGE.--Water-stage recorder. Water levels are controlled by 60-degree extra-large trapezoidal flume. Elevation of gage is 905 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-08-1: 2005-07.

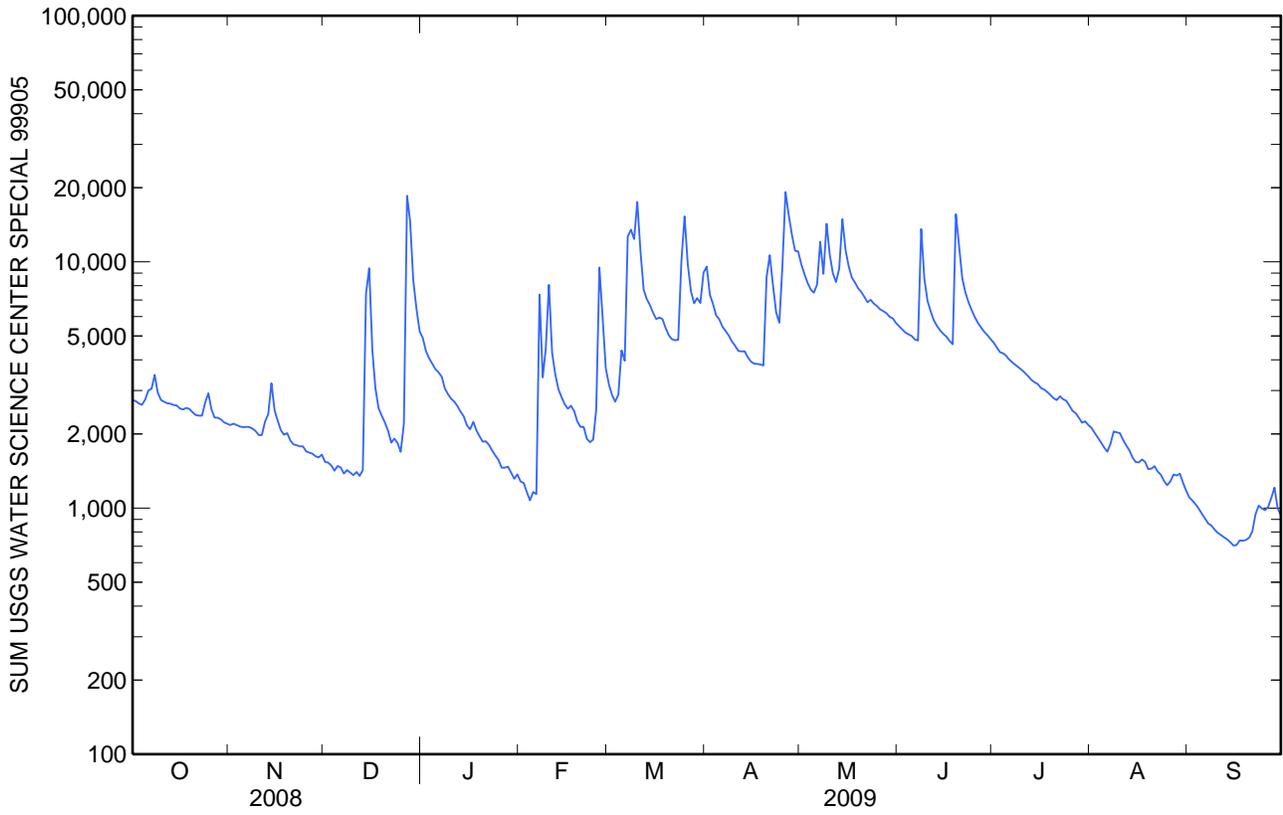
431113088281000 Local number DISCOVERY FARMS TILE SITE NO. 1 NEAR MAPLETON, WI—Continued

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY SUM VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,750	2,173	1,540	4,904	1,282	3,174	9,572	9,778	5,480	4,691	2,117	1,105
2	2,718	2,204	1,531	4,354	1,263	2,884	7,341	8,909	5,312	4,479	2,018	1,073
3	2,659	2,173	1,489	4,060	1,157	2,707	6,768	8,212	5,158	4,300	1,930	1,035
4	2,624	2,145	1,418	3,860	1,075	2,888	6,070	7,709	5,076	4,255	1,851	996
5	2,757	2,131	1,482	3,665	1,162	4,368	5,842	7,496	4,994	4,148	1,763	947
6	3,001	2,134	1,461	3,556	1,140	3,965	5,452	8,086	4,843	4,009	1,696	906
7	3,050	2,133	1,380	3,413	7,365	12,650	5,234	12,060	4,787	3,890	1,823	866
8	3,472	2,100	1,426	3,064	3,393	e13,520	5,019	8,940	13,590	3,812	2,048	849
9	2,944	2,054	1,394	2,899	4,425	12,370	4,757	14,280	8,537	3,710	2,031	818
10	2,750	1,979	1,360	2,779	8,062	17,510	4,565	10,790	6,941	3,637	2,016	794
11	2,703	1,978	1,401	2,705	4,269	11,030	4,350	8,999	6,311	3,527	1,893	778
12	2,667	2,246	1,351	2,592	3,481	7,707	4,330	8,277	5,793	3,421	1,797	761
13	2,653	2,406	1,426	2,464	3,032	7,069	4,333	9,369	5,490	3,314	1,712	746
14	2,621	3,216	7,420	2,355	2,824	6,682	4,112	14,910	5,271	3,239	1,607	726
15	2,610	2,494	9,429	2,167	2,642	6,214	3,939	11,170	5,095	3,184	1,539	705
16	2,539	2,271	4,367	2,088	2,533	5,858	3,863	9,633	4,971	3,068	1,532	708
17	2,514	2,074	3,075	2,238	2,601	5,939	3,848	8,643	4,778	3,031	1,577	739
18	2,551	1,986	2,543	2,064	2,472	5,851	3,832	8,242	4,628	2,958	1,538	737
19	2,528	2,015	2,375	1,959	2,248	5,391	3,794	7,817	e15,620	2,878	1,439	742
20	2,452	1,881	2,224	1,860	2,136	5,029	8,670	7,539	11,610	2,792	1,447	759
21	2,387	1,817	2,056	1,869	2,138	4,850	10,650	7,211	8,588	2,747	1,478	805
22	2,372	1,798	1,842	1,803	1,913	4,806	8,047	6,851	7,538	2,847	1,405	945
23	2,373	1,780	1,917	1,710	1,851	4,825	6,246	7,009	6,866	2,767	1,364	1,024
24	2,685	1,780	1,838	1,637	1,899	10,080	5,660	6,767	6,370	2,731	1,286	996
25	2,926	1,700	1,693	1,569	2,512	15,310	9,491	6,607	5,956	2,608	1,239	981
26	2,523	1,681	2,200	1,458	e9,481	9,775	19,220	6,413	5,641	2,483	1,281	1,011
27	2,330	1,663	18,550	1,459	5,950	7,596	15,520	6,304	5,406	2,426	1,368	1,099
28	2,328	1,625	14,660	1,472	3,700	6,787	12,890	6,183	5,199	2,325	1,357	1,211
29	2,290	1,608	8,394	1,395	---	7,123	11,090	5,975	5,040	2,224	1,379	997
30	2,230	1,648	6,450	1,315	---	6,808	11,030	5,890	4,852	2,249	1,264	936
31	2,199	---	5,218	1,370	---	9,040	---	5,641	---	2,173	1,177	---
Total	81,206	60,893	114,910	76,103	88,006	229,806	215,535	261,710	195,741	99,923	49,972	26,795
Mean	2,620	2,030	3,707	2,455	3,143	7,413	7,184	8,442	6,525	3,223	1,612	893
Max	3,472	3,216	18,550	4,904	9,481	17,510	19,220	14,910	15,620	4,691	2,117	1,211
Min	2,199	1,608	1,351	1,315	1,075	2,707	3,794	5,641	4,628	2,173	1,177	705

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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	1,077	---	---	---	---	---	---	---	---	---	---	---
2	2,228	---	---	---	---	---	---	---	---	---	---	---
3	1,370	---	---	---	---	---	---	---	---	---	---	---
4	1,156	---	---	---	---	---	---	---	---	---	---	---
5	1,085	---	---	---	---	---	---	---	---	---	---	---
6	1,447	---	---	---	---	---	---	---	---	---	---	---
7	1,345	---	---	---	---	---	---	---	---	---	---	---
8	1,178	---	---	---	---	---	---	---	---	---	---	---
9	1,101	---	---	---	---	---	---	---	---	---	---	---
10	1,017	---	---	---	---	---	---	---	---	---	---	---
11	954	---	---	---	---	---	---	---	---	---	---	---
12	962	---	---	---	---	---	---	---	---	---	---	---
13	919	---	---	---	---	---	---	---	---	---	---	---
14	951	---	---	---	---	---	---	---	---	---	---	---
15	965	---	---	---	---	---	---	---	---	---	---	---
16	970	---	---	---	---	---	---	---	---	---	---	---
17	937	---	---	---	---	---	---	---	---	---	---	---
18	941	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Total	---	---	---	---	---	---	---	---	---	---	---	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2005 to October 2009.

REVISED RECORDS.--WDR WI-08-1: 2005-07 (runoff volumes).

INSTRUMENTATION.--Water-quality sampler May 2005 to October 2009.

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 2008 TO SEPTEMBER 2009

[Remark codes: <, less than.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Sampling method, code (82398)	Dissolved solids dried @ 105degC wat flt mg/L (00515)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, wat flt mg/L as P (00672)	Nitrate + nitrite, water, fltrd, mg/L as N (00631)	Phosphorus, water, unfltrd mg/L as P (00665)	Suspended sediment concentration mg/L (80154)
Nov 04...	1138	.02	EWI	518	30.8	.05	<.010	.01	15.3	.013	4
Dec 29...	1140	.10	EWI	496	23.9	.31	<.010	.03	13.2	.028	7
Jan 20...	1050	.02	EWI	486	27.7	.28	<.010	.04	13.8	.042	2
Feb 12...	1020	.04	EWI	468	24.2	.33	<.010	.03	11.9	.023	<2
Mar 16...	1215	.07	EWI	460	24.3	.29	<.010	.06	11.9	.044	6
Apr 08...	1147	.06	EWI	464	23.1	.23	<.010	.03	12.7	.023	<2
May 14...	1103	.17	EWI	422	18.0	.29	<.010	.04	12.9	.041	5
Jun 15...	1258	.06	EWI	348	21.4	.12	<.010	.01	13.5	.010	3
Jul 20...	1117	.03	EWI	480	23.2	.21	.020	.02	13.5	.020	<2
Aug 28...	0830	.02	EWI	536	23.1	.14	<.010	.02	13.4	.012	5
Sep 22...	0805	.01	EWI	512	23.8	.09	<.010	.03	13.8	.011	10