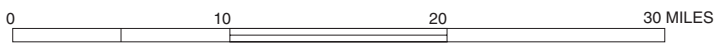
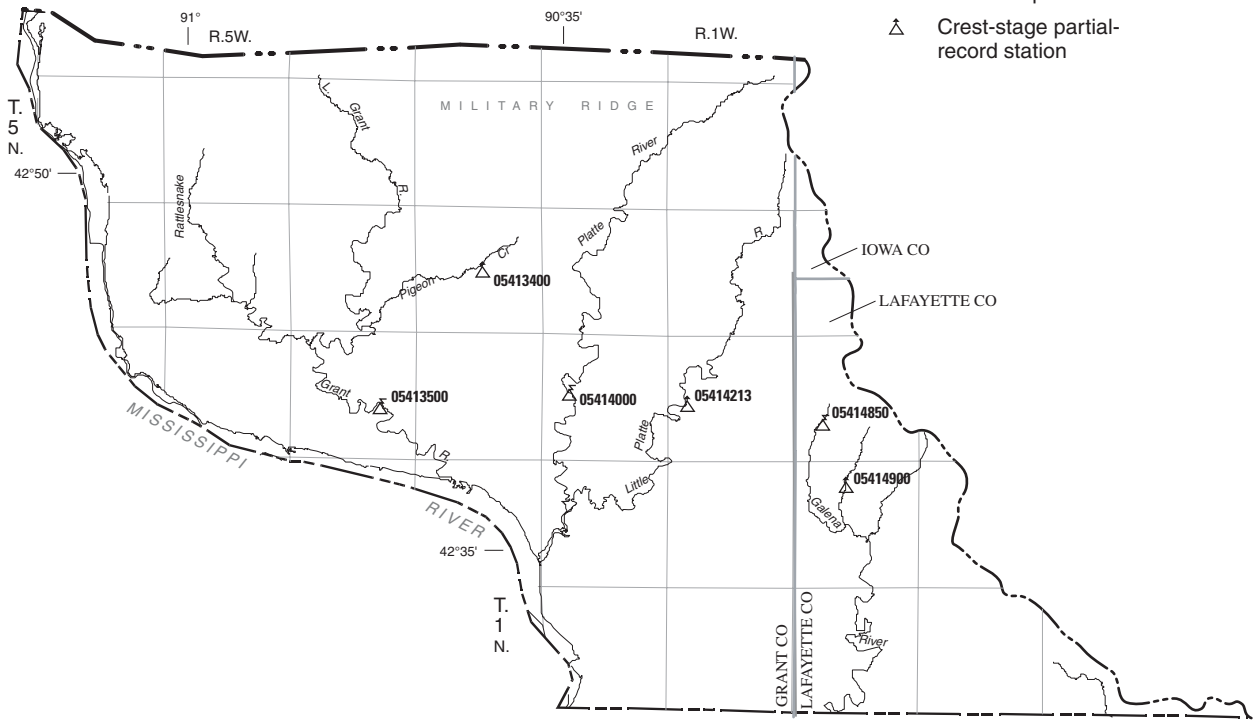




EXPLANATION

- 05414213 Station number
- △ Stream gage
- ▽ Surface water-quality station
- ⊠ Stream gage equipped with telephone or data collection platform
- △ Crest-stage partial-record station



Base from U.S. Geological Survey 1:100,000 digital data; modified by Wisconsin Department of Natural Resources. Wisconsin Transverse Mercator projection.

GRANT-PLATTE-GALENA RIVER BASIN

GRANT RIVER BASIN

05413500 GRANT RIVER AT BURTON, WI

LOCATION.--Lat 42°43'13", long 90°49'09", in SW 1/4 NW 1/4 sec.23, T.3 N., R.4 W., Grant County, Hydrologic Unit 07060003, on right bank at downstream side of highway bridge at Burton, 5.9 mi northwest of Potosi and 9.5 mi upstream from mouth.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--October 1934 to current year. Published as "near Burton" October 1934 to September 1947. Records published for both sites March to September 1947. October 1934, monthly discharge published in WSP 1308.

REVISED RECORDS.--WSP 825: 1935-36. WSP 1308: 1935-37(M), 1941(M), 1945-46(M), 1949(M). WSP 1728: 1942(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 606.43 ft above NGVD of 1929. Oct. 17, 1934, to Sept. 30, 1947, non-recording gage at site 6 mi upstream at datum 33.18 ft higher. Mar. 18, 1947, to July 27, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Data-collection platform and gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	87	104	109	e76	288	192	108	609	226	174	152
2	82	103	98	115	e79	270	179	106	474	222	174	150
3	84	156	100	104	e80	176	167	104	397	223	202	148
4	86	839	100	e100	e81	154	159	103	350	249	322	146
5	85	297	106	e92	e82	600	153	102	323	224	217	145
6	84	169	103	e89	e83	378	150	102	313	229	184	145
7	84	142	101	e86	e84	223	145	106	292	257	178	143
8	84	127	103	e87	e85	186	141	121	274	226	175	140
9	83	117	103	e87	e86	168	135	111	259	248	178	139
10	83	116	115	e89	e87	156	131	139	261	306	172	139
11	84	117	100	e91	e88	153	127	165	338	245	167	138
12	92	115	e130	e90	e87	129	125	128	347	320	165	137
13	91	108	e120	e86	e87	140	123	164	355	237	162	137
14	100	105	e120	e84	e87	147	121	226	404	216	159	137
15	101	106	e110	e83	e87	139	119	154	293	206	156	140
16	90	106	e110	e82	e88	128	118	140	752	204	156	142
17	86	104	e110	e80	e88	128	131	135	1,530	237	168	136
18	86	108	e100	e74	e90	130	126	151	499	203	164	134
19	87	107	e100	e68	e100	130	120	141	401	195	159	132
20	86	102	e90	e77	e110	126	122	130	353	194	155	130
21	86	100	e110	e80	e300	122	148	156	336	274	153	130
22	86	97	e110	e80	e200	117	134	1,780	340	280	152	129
23	86	151	e100	e80	e180	118	120	2,250	300	212	153	130
24	87	177	97	e80	e340	141	116	873	292	198	158	131
25	95	128	97	e80	e180	182	119	544	292	191	176	130
26	89	120	118	e80	e230	328	120	426	269	187	162	129
27	87	114	118	e78	e210	319	112	363	256	184	191	130
28	89	110	162	e77	e190	271	111	315	252	180	190	130
29	90	106	146	e75	e280	263	110	542	241	181	187	128
30	90	107	128	e74	---	226	107	836	231	184	167	130
31	89	---	112	e73	---	207	---	1,040	---	180	158	---
TOTAL	2,714	4,441	3,421	2,630	3,845	6,243	3,981	11,761	11,633	6,918	5,434	4,107
MEAN	87.5	148	110	84.8	133	201	133	379	388	223	175	137
MAX	101	839	162	115	340	600	192	2,250	1,530	320	322	152
MIN	82	87	90	68	76	117	107	102	231	180	152	128
CFSM	0.33	0.55	0.41	0.32	0.49	0.75	0.49	1.41	1.44	0.83	0.65	0.51
IN.	0.38	0.61	0.47	0.36	0.53	0.86	0.55	1.63	1.61	0.96	0.75	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	121	131	112	133	201	313	184	174	214	177	150	133
MAX	276	626	350	467	668	1,057	505	489	920	808	502	330
(WY)	(1994)	(1962)	(1973)	(1974)	(1948)	(1959)	(1973)	(1973)	(1947)	(1993)	(1943)	(1993)
MIN	45.8	41.3	37.7	33.4	36.1	55.3	66.0	46.8	50.6	35.8	41.6	42.2
(WY)	(1935)	(1938)	(1959)	(1959)	(1959)	(1958)	(1957)	(1958)	(1936)	(1936)	(1937)	(1958)

GRANT RIVER BASIN

05413500 GRANT RIVER AT BURTON, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	42,888		67,128		170	
ANNUAL MEAN	118		183		351	
HIGHEST ANNUAL MEAN					59.3	
LOWEST ANNUAL MEAN					1993	
HIGHEST DAILY MEAN	839	Nov 4	2,250	May 23	10,700	Jun 13, 1947
LOWEST DAILY MEAN	77	Sep 4	(a)68	Jan 19	30	(b)Aug 5, 1936
ANNUAL SEVEN-DAY MINIMUM	77	Sep 4	(a)76	Jan 27	31	(c)Aug 3, 1936
MAXIMUM PEAK FLOW			4,280	May 23	(d)25,000	Jul 16, 1950
MAXIMUM PEAK STAGE			18.94	May 23	24.82	Jul 16, 1950
INSTANTANEOUS LOW FLOW					(f)21	Mar 4, 1954
ANNUAL RUNOFF (CFSM)	0.437		0.682		0.632	
ANNUAL RUNOFF (INCHES)	5.93		9.28		8.59	
10 PERCENT EXCEEDS	150		302		258	
50 PERCENT EXCEEDS	104		131		120	
90 PERCENT EXCEEDS	83		86		60	

(a) Ice affected

(b) Also occurred Aug. 8, 9, 1936, Sept. 22, 1937, and Feb. 19, 20, 1959, ice affected

(c) Also occurred Jan. 4, 1959, ice affected

(d) From rating curve extended above 18,000 ft³/s on basis of slope-area measurement of peak flow

(e) Estimated due to ice effect or missing record

(f) Result of freezeup

05413500 GRANT RIVER AT BURTON, WI—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-67, 1978 to current year. National Stream-Quality Accounting Network data collection October 1986 to September 1994.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Water years 1978 to current year (discontinued), April-September monthly totals only published for 1983 water year, but daily load estimates are available for the entire year.

INSTRUMENTATION.--Automatic pumping sampler since June 21, 1999.

REMARKS.--Sediment records for periods of no ice cover are fair to good. Records for high-flow periods during ice cover are poor. Monthly and annual load values are fair. Most samples are point samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 16,800 mg/L, June 16, 2004; minimum observed, 6 mg/L, Dec. 8, 1997.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 95,300 tons, June 17, 1978; minimum daily, 1.5 tons, Mar. 1, 2, 1978.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum observed, 16,800 mg/L, June 16; minimum observed, 7 mg/L, Feb. 4.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 47,000 tons, May 23; minimum daily, 1.6 tons, Feb. 3 and 4.

SUSPENDED SEDIMENT DISCHARGE, TONS PER DAY
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.6	3.1	8.6	e1.7	277	119	11	2,280	74	161	35
2	4.8	7.3	2.9	3.8	e1.7	188	83	9.7	873	66	167	35
3	5.2	103	3.0	3.5	e1.6	99	58	8.7	391	61	200	35
4	5.5	2,750	3.0	e3.4	e1.6	94	41	7.9	162	62	326	35
5	5.3	597	3.1	e3.2	e1.8	3,630	30	6.4	185	50	165	35
6	5.1	183	3.1	e3.1	e2.0	2,800	22	6.1	185	48	147	36
7	4.9	85	3.2	e3.1	e2.2	1,110	17	7.4	174	70	153	36
8	4.7	54	3.5	e3.2	e2.5	449	17	10	164	89	162	35
9	4.5	48	3.7	e3.2	e5.7	200	17	11	156	144	177	35
10	4.4	46	4.3	e3.4	e8.7	124	18	16	156	223	183	35
11	4.3	45	3.9	e3.5	e9.4	90	18	22	201	172	184	34
12	4.5	43	e5.4	e3.5	e10	56	18	20	219	214	169	34
13	4.3	39	e5.3	e3.4	e11	45	19	51	280	150	154	34
14	6.4	36	e5.7	e3.4	e12	34	19	155	489	130	140	34
15	7.4	33	e5.6	e3.4	e13	24	20	39	672	117	127	33
16	4.9	24	e6.1	e3.4	e14	16	20	34	20,900	110	117	31
17	3.5	17	e6.6	e3.3	e15	13	23	32	28,000	120	117	27
18	2.8	13	e6.4	e3.1	e16	13	22	35	1,300	97	105	24
19	2.7	9.1	e6.9	e2.9	e20	12	22	35	711	88	90	21
20	2.6	6.3	e6.4	e3.3	e29	12	23	45	503	82	78	19
21	2.6	4.4	e7.4	e3.4	e215	11	28	93	408	115	68	17
22	2.5	4.6	e7.0	e3.2	e133	12	24	34,700	350	128	60	16
23	2.4	36	e6.0	e3.1	e110	19	20	47,000	235	107	54	17
24	2.4	70	5.5	e2.9	e492	29	19	4,280	168	110	50	18
25	2.6	18	5.2	e2.8	e459	47	18	643	123	117	39	18
26	2.6	13	6.0	e2.6	e345	223	17	397	91	126	21	19
27	2.6	7.8	8.1	e2.4	e180	696	15	298	88	136	34	20
28	2.8	4.7	30	e2.3	e140	418	14	229	89	144	36	21
29	3.0	3.2	46	e2.1	e346	330	13	1,480	87	150	37	22
30	3.1	3.2	30	e1.9	---	234	12	4,020	83	159	35	21
31	3.3	---	20	e1.8	---	172	---	5,630	---	161	35	---
TOTAL	122.2	4,307.2	262.4	100.2	2,598.9	11,477	806	99,332.2	59,723	3,620	3,591	832
WTR YR	2004	TOTAL	186,772.1									

e Estimated

GRANT RIVER BASIN

05413500 GRANT RIVER AT BURTON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Dis-charge, cfs (00060)	Instan- taneous dis- charge, cfs (00061)	Sam- pling method, code (82398)	Sus- pended sedi- ment concent- ration mg/L (80154)
OCT					
04...	0600	--	85	50	24
14...	1416	--	99	10	17
14...	1423	--	99	50	35
16...	1400	--	89	30	2
18...	0600	--	87	50	12
25...	0600	--	93	50	10
NOV					
01...	0500	--	88	50	14
03...	2330	--	274	50	530
04...	0145	--	486	50	832
04...	0415	--	723	50	1,770
04...	0715	--	964	50	1,580
04...	1440	--	1,050	10	1,030
04...	1446	--	1,050	50	1,050
04...	2300	--	567	50	962
15...	0500	--	104	50	125
22...	0500	--	97	50	13
25...	0848	--	131	10	27
25...	0852	--	130	50	70
29...	0500	--	107	50	11
DEC					
06...	0500	--	104	50	11
13...	0500	120	--	50	16
20...	0500	90	--	50	27
27...	0500	--	126	50	18
JAN					
01...	1133	--	84	10	48
01...	1137	--	84	50	12
14...	0500	84	--	50	15
21...	0500	80	--	50	16
28...	0720	77	--	50	11
FEB					
04...	0500	81	--	50	7
09...	1032	86	--	50	12
09...	1039	86	--	10	34
20...	1700	110	--	50	80
20...	2200	110	--	50	159
21...	0015	300	--	50	277
24...	0030	340	--	50	216
24...	0545	340	--	50	393
25...	0500	180	--	50	1,140
28...	0515	190	--	50	208
29...	0900	280	--	50	516
MAR					
03...	0500	--	189	50	201
05...	0845	--	590	50	1,270
06...	2300	--	253	50	2,640
17...	0500	--	128	50	38
22...	1320	--	117	10	32
22...	1329	--	117	50	46
26...	1145	--	302	50	123
26...	1815	--	497	50	262
31...	0500	--	213	50	334
APR					
07...	0600	--	147	50	43
14...	0957	--	121	50	59
21...	0600	--	140	50	71
28...	0600	--	111	50	49

05413500 GRANT RIVER AT BURTON, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Suspended sediment concentration mg/L (80154)
MAY				
05...	1155	100	10	26
05...	1206	100	50	19
12...	0600	132	50	55
19...	0600	149	50	84
22...	0000	324	50	407
22...	0345	540	50	9,400
22...	0500	784	50	10,400
22...	0630	1,070	50	7,960
22...	0745	1,370	50	6,230
22...	0845	1,730	50	6,140
22...	1110	3,080	10	7,060
22...	1120	3,140	50	8,120
22...	1259	3,420	50	8,480
22...	2145	1,570	50	6,290
23...	0300	1,110	50	2,410
23...	0730	1,410	50	3,560
23...	0900	1,790	50	5,670
23...	1145	3,860	50	10,700
23...	1930	1,990	50	8,890
23...	2345	1,430	50	3,760
24...	0630	992	50	2,080
25...	0230	602	50	476
26...	0600	443	50	353
29...	0615	292	50	245
29...	1500	496	50	397
29...	1715	723	50	956
29...	1900	984	50	1,640
31...	0500	1,250	50	1,920
31...	2000	831	50	2,160
JUN				
02...	0600	495	50	774
04...	0903	352	10	207
04...	0912	351	50	99
05...	0615	328	50	218
09...	0600	262	50	223
12...	0615	337	50	219
13...	2100	547	50	310
16...	0600	267	50	1,340
16...	1815	521	50	4,780
16...	1845	847	50	9,400
16...	1915	1,180	50	13,000
16...	2030	1,900	50	16,800
16...	2130	2,560	50	14,300
17...	0900	1,640	50	6,940
17...	1315	1,160	50	1,940
17...	1945	746	50	1,240
19...	1615	387	50	600
22...	1630	330	50	371
26...	0615	272	50	123
30...	0600	232	50	136
JUL				
06...	1220	232	10	76
06...	1230	232	50	70
10...	0615	348	50	277
14...	0600	219	50	226
21...	0600	190	50	151
28...	0600	180	50	295
AUG				
04...	0600	216	50	378
04...	0915	406	50	274
11...	0600	168	50	417
18...	0600	165	50	244
25...	0600	186	50	106
26...	1245	161	10	25
26...	1252	161	50	62
SEP				
01...	0600	153	50	86
08...	0600	140	50	94
15...	0600	138	50	91
22...	0600	129	50	45
29...	0600	128	50	63

05414000 PLATTE RIVER NEAR ROCKVILLE, WI

LOCATION.--Lat 42°43'52", long 90°38'25", in SW ¼ sec.17, T.3 N., R.2 W., Grant County, Hydrologic Unit 07060003, on right bank just downstream from bridge on County Trunk Highway B, 0.8 mi upstream from Blakely Branch, 2.2 mi east of Rockville, 4.5 mi northeast of Potosi, and 15.2 mi upstream from mouth.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge for October and November 1934 published in WSP 1308.

REVISED RECORDS.--WSP 1438: 1935-36, 1937(M), 1939(M), 1941-43(M), 1946(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 642.50 ft above NGVD of 1929. Prior to Oct. 1, 1941, nonrecording gage at site 1.3 mi upstream at datum 12.55 ft higher. Oct. 1, 1941, to June 29, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor (see page 11). Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	43	68	83	e47	166	149	87	524	199	128	107
2	39	60	63	86	e47	154	138	85	400	193	133	105
3	40	110	65	82	e48	113	130	84	332	204	139	104
4	41	765	64	71	e48	109	122	84	301	234	221	103
5	40	184	67	e66	e48	478	118	82	282	196	142	102
6	40	121	64	e57	e49	225	115	82	288	193	130	102
7	39	100	63	e50	e49	167	111	85	258	226	127	100
8	38	88	64	e51	e49	139	109	91	240	190	125	98
9	37	79	65	e51	e49	126	105	85	226	190	128	98
10	37	77	79	e52	e50	117	102	113	242	201	122	98
11	38	76	67	e52	e49	113	99	123	321	189	121	97
12	40	73	65	e52	e50	98	97	100	268	215	119	95
13	40	67	73	e52	e50	103	97	134	428	179	116	95
14	48	65	74	e52	e50	119	97	157	375	168	114	95
15	46	63	71	e51	e50	104	95	125	305	162	112	102
16	41	62	71	e51	e50	99	94	115	655	161	112	102
17	39	60	68	e51	e50	99	105	122	1,010	170	119	96
18	40	61	66	e50	e52	100	98	183	444	157	116	94
19	40	60	62	e49	e60	99	95	137	358	152	114	92
20	40	58	55	e49	e130	97	98	126	320	151	111	91
21	40	56	70	e49	e160	93	120	166	316	199	109	91
22	40	56	65	e49	e130	90	106	1,330	303	185	108	90
23	40	135	64	e49	e150	90	98	1,280	271	156	108	90
24	42	134	57	e48	e240	110	95	622	270	147	113	90
25	47	101	65	e48	e130	117	98	425	259	142	121	90
26	44	91	61	e47	e180	280	96	335	238	139	115	89
27	43	84	71	e46	171	252	92	292	227	137	136	90
28	44	78	174	e46	151	220	91	254	225	134	123	90
29	44	74	115	e46	163	198	88	370	212	134	122	89
30	44	73	99	e46	---	174	87	515	204	137	114	90
31	43	---	92	e46	---	161	---	767	---	133	110	---
TOTAL	1,273	3,154	2,267	1,678	2,550	4,610	3,145	8,556	10,102	5,373	3,828	2,875
MEAN	41.1	105	73.1	54.1	87.9	149	105	276	337	173	123	95.8
MAX	48	765	174	86	240	478	149	1,330	1,010	234	221	107
MIN	37	43	55	46	47	90	87	82	204	133	108	89
CFSM	0.29	0.74	0.51	0.38	0.62	1.05	0.74	1.94	2.37	1.22	0.87	0.67
IN.	0.33	0.83	0.59	0.44	0.67	1.21	0.82	2.24	2.65	1.41	1.00	0.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	70.3	76.8	64.0	76.0	105	172	113	108	136	107	89.2	78.8
MAX	146	372	155	315	379	483	291	328	586	660	348	202
(WY)	(1962)	(1962)	(1973)	(1946)	(1938)	(1959)	(1993)	(1960)	(1947)	(1993)	(1943)	(1942)
MIN	25.3	29.2	23.7	22.1	24.3	33.4	42.0	36.1	34.3	24.0	30.3	33.7
(WY)	(1951)	(1938)	(1959)	(1959)	(1959)	(1957)	(1990)	(1958)	(1936)	(1936)	(1937)	(1989)

05414000 PLATTE RIVER NEAR ROCKVILLE, WI—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	22,962		49,411			
ANNUAL MEAN	62.9		135		99.7	
HIGHEST ANNUAL MEAN					234	1993
LOWEST ANNUAL MEAN					40.8	1958
HIGHEST DAILY MEAN	765	Nov 4	1,330	May 22	7,830	Jul 16, 1950
LOWEST DAILY MEAN	36	Sep 7-11	37	Oct 9, 10	7.0	Dec 22, 1939
ANNUAL SEVEN-DAY MINIMUM	36	Sep 5	38	Oct 5	18	Nov 1, 1950
MAXIMUM PEAK FLOW			3,000	Jun 16	(a)43,500	Jul 16, 1950
MAXIMUM PEAK STAGE			10.56	Jun 16	17.26	Jul 16, 1950
INSTANTANEOUS LOW FLOW			(b)12	Jan 19	(b)0.00	Nov 24, 1950
ANNUAL RUNOFF (CFSM)	0.443		0.951		0.702	
ANNUAL RUNOFF (INCHES)	6.02		12.94		9.54	
10 PERCENT EXCEEDS	89		245		157	
50 PERCENT EXCEEDS	55		99		68	
90 PERCENT EXCEEDS	40		47		36	

(a) From rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow

(b) Result of freezeup

(c) Estimated due to ice effect or missing record

05414850 GALENA RIVER AT U.W. PLATTEVILLE FARMS NEAR PLATTEVILLE, WI

LOCATION.--Lat 42°42'39", long 90°23'58", in NW ¼ NE ¼ NW ¼ sec.29, T.3 N., R.1 E. (revised), Lafayette County, Hydrologic Unit 07060005, on right bank 110 ft downstream from College Farm Road bridge.

DRAINAGE AREA.--2.94 mi².

PERIOD OF RECORD.--August 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 995 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.91	2.2	1.8	1.7	1.5	2.5	2.2	1.8	6.8	4.5	3.0	2.8
2	0.83	3.3	1.7	1.7	1.5	2.1	2.2	1.8	6.0	4.5	3.2	2.8
3	0.82	5.2	1.7	1.7	1.5	1.9	2.1	1.8	5.6	4.8	4.6	2.8
4	0.83	9.2	1.7	1.6	1.5	3.4	2.1	1.8	5.5	4.8	4.5	2.7
5	0.84	3.1	1.7	e1.5	1.4	15	2.1	1.7	5.4	4.5	3.2	2.7
6	0.83	2.8	1.7	e1.5	e1.5	2.4	2.1	1.7	5.5	4.8	3.0	2.7
7	0.87	2.6	1.7	e1.5	1.5	2.3	2.1	1.8	5.4	4.6	3.1	2.6
8	0.88	2.4	1.7	e1.5	1.5	2.1	2.1	1.9	5.3	4.4	3.0	2.5
9	0.91	2.4	1.8	1.5	1.7	2.0	2.1	2.2	5.3	4.6	3.4	2.5
10	0.94	2.4	2.4	1.5	1.8	2.0	2.0	2.4	7.0	4.4	3.0	2.4
11	0.98	2.4	2.0	e1.5	1.6	1.9	2.0	2.1	6.8	5.1	3.0	2.4
12	1.0	2.3	1.8	e1.5	1.5	1.8	2.0	2.1	11	4.3	2.9	2.4
13	1.0	2.2	1.8	1.5	1.5	1.8	2.1	2.6	6.0	4.1	2.9	2.3
14	1.2	2.1	1.8	e1.5	e1.4	2.1	2.1	2.4	8.0	3.9	2.8	2.4
15	1.1	2.1	1.9	1.5	e1.4	1.8	2.0	2.3	5.6	3.8	2.8	2.8
16	1.1	2.1	1.9	1.5	e1.4	1.8	2.0	2.2	13	5.5	2.8	2.6
17	1.2	2.1	1.8	1.5	1.4	1.8	2.1	3.2	8.4	3.9	3.0	2.4
18	1.3	2.1	1.8	1.5	1.5	1.9	2.0	2.7	6.2	3.7	2.9	2.3
19	1.3	2.1	1.7	e1.5	1.5	1.8	2.0	2.6	5.8	3.6	3.0	2.3
20	1.4	2.0	1.7	e1.5	5.0	1.9	2.1	2.7	5.7	3.6	2.8	2.3
21	1.5	1.9	1.7	1.5	4.1	1.8	2.3	6.3	5.9	5.0	2.7	2.3
22	1.6	1.9	1.7	e1.5	3.2	1.8	2.0	26	5.5	3.8	2.8	2.3
23	1.7	4.8	1.7	e1.5	14	1.8	1.9	16	5.3	3.5	2.8	2.3
24	1.8	2.4	1.7	1.5	3.7	2.1	1.9	6.2	5.5	3.4	3.1	2.5
25	2.0	2.2	1.6	1.5	3.5	2.1	2.0	5.8	5.2	3.3	3.3	2.3
26	1.9	2.0	1.6	1.5	3.1	3.4	1.9	5.2	4.9	3.2	3.1	2.3
27	1.9	1.9	1.8	1.5	2.3	2.4	1.9	5.0	4.8	3.0	4.9	2.3
28	2.0	1.9	2.2	1.5	2.4	2.7	1.9	4.7	4.7	3.0	3.6	2.3
29	2.0	1.8	1.8	e1.5	2.2	2.4	1.9	8.8	4.6	3.2	3.3	2.3
30	2.1	1.8	1.8	e1.5	---	2.3	1.9	15	4.5	3.2	3.0	2.3
31	2.1	---	1.7	e1.5	---	2.2	---	11	---	3.1	2.9	---
TOTAL	40.84	79.7	55.4	47.2	72.1	79.3	61.1	153.8	185.2	125.1	98.4	73.9
MEAN	1.32	2.66	1.79	1.52	2.49	2.56	2.04	4.96	6.17	4.04	3.17	2.46
MAX	2.1	9.2	2.4	1.7	14	15	2.3	26	13	5.5	4.9	2.8
MIN	0.82	1.8	1.6	1.5	1.4	1.8	1.9	1.7	4.5	3.0	2.7	2.3
CFSM	0.45	0.90	0.61	0.52	0.85	0.87	0.69	1.69	2.10	1.37	1.08	0.84
IN.	0.52	1.01	0.70	0.60	0.91	1.00	0.77	1.95	2.34	1.58	1.25	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

	2003	2004	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
MEAN	1.99	2.12	1.60	1.41	1.90	1.94	1.74	3.40	3.71	2.92	2.13	2.05
MAX	2.66	2.66	1.79	1.52	2.49	2.56	2.04	4.96	6.17	4.04	3.17	2.46
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	1.32	1.59	1.42	1.29	1.29	1.32	1.44	1.84	1.25	1.79	0.96	1.25
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2002 - 2004

ANNUAL TOTAL	553.65	1,072.04	
ANNUAL MEAN	1.52	2.93	2.22
HIGHEST ANNUAL MEAN			2.93
LOWEST ANNUAL MEAN			1.51
HIGHEST DAILY MEAN	9.2	Nov 4	26
LOWEST DAILY MEAN	(a)0.82	Aug 5	0.82
ANNUAL SEVEN-DAY MINIMUM	0.84	Oct 2	0.84
MAXIMUM PEAK FLOW			72
MAXIMUM PEAK STAGE			6.44
INSTANTANEOUS LOW FLOW			0.79
ANNUAL RUNOFF (CFSM)	0.516	0.996	0.756
ANNUAL RUNOFF (INCHES)	7.01	13.56	10.27
10 PERCENT EXCEEDS	2.1	5.2	3.9
50 PERCENT EXCEEDS	1.3	2.2	1.7
90 PERCENT EXCEEDS	0.98	1.5	1.2

(a) Also occurred Oct. 3

(e) Estimated due to ice effect or missing record

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI

LOCATION.--Lat 42°39'12", long 90°17'08", Lafayette County, Hydrologic Unit 07060005, 1000 ft east of intersection of Pleasant View Rd. and St. Peters Rd., south of St. Peters Rd. in waterway, 6.3 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--16.9 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Datum of gage is 1,038 ft above sea level, from topographic map.

REMARKS.--Records excellent. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e0	0	0	0	0	0	0	0	0	0
2	---	---	e0	0	0	0	0	0	0	0	0	0
3	---	---	e0	0	0	0	0	0	0	0	0	0
4	---	---	0	0	0	23,180	0	0	0	0	0	0
5	---	---	0	0	0	6,462	0	0	0	0	0	0
6	---	---	0	0	0	0	0	0	0	0	0	0
7	---	---	0	0	0	0	0	0	0	0	0	0
8	---	---	0	0	0	0	0	0	0	0	0	0
9	---	---	0	0	0	0	0	0	0	0	0	0
10	---	---	0	0	0	0	0	0	0	0	0	0
11	---	---	0	0	0	0	0	0	0	0	0	0
12	---	---	0	0	0	0	0	0	378	0	0	0
13	---	---	0	0	0	0	0	0	0	0	0	0
14	---	---	0	0	0	0	0	0	0	0	0	0
15	---	---	0	0	0	0	0	0	0	0	0	0
16	---	---	0	0	0	0	0	0	4,723	0	0	0
17	---	---	0	0	0	0	0	0	0	0	0	0
18	---	---	0	0	155	0	0	0	0	0	0	0
19	---	---	0	0	583	0	0	0	0	0	0	0
20	---	---	0	0	20,300	0	0	0	0	0	0	0
21	---	---	0	0	3,388	0	0	31	0	0	0	0
22	---	---	0	0	3,899	0	0	0	0	0	0	0
23	---	---	0	0	7,863	0	0	32,820	0	0	0	0
24	---	---	0	0	113	0	0	0	0	0	0	0
25	---	---	0	0	401	0	0	0	0	0	0	0
26	---	---	0	0	728	0	0	0	0	0	0	0
27	---	---	0	0	380	0	0	0	0	0	0	0
28	---	---	0	0	244	0	0	0	0	0	0	0
29	---	---	0	0	0	0	0	0	0	0	0	0
30	---	---	0	0	---	0	0	1,041	0	0	0	0
31	---	---	0	0	---	0	---	0	---	0	0	---
TOTAL	---	---	0	0	38,054	29,642	0	33,892	5,101	0	0	0
MEAN	---	---	0	0	1,312	956	0	1,093	170	0	0	0
MAX	---	---	0	0	20,300	23,180	0	32,820	4,723	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0

e Estimated

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentration for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff periods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm 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 2003 TO SEPTEMBER 2004
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unfiltered, mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
FEB													
25...	1716	.034	50	14.5	300	24	13	8.84	10.3	5.5	4.86	1.04	5.06
26...	1517	.076	50	14.5	323	31	16	9.51	11.1	6.0	6.04	1.17	6.42

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
FEB		
25...	5.64	2
26...	6.84	29

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sam- pling method, code (82398)	Chlor- ide, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Residue vola- tile, sus- pended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydro- lyzable phos- phorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)
FEB 18-19	20040219	2106	1034	50	117	1,779	66	59	63.5	69.4	43.6	5.60	.31
FEB 20-20	20040220	0509	0704	50	90	1,383	57	49	59.0	63.8	34.2	8.90	.08
FEB 20-20	20040220	0705	1234	50	82	1,287	44	33	50.3	58.7	26.5	11.4	.08
FEB 20-20	20040220	1235	1434	50	71	1,144	42	32	43.6	49.0	20.6	12.2	.06
FEB 20-20	20040220	1435	2334	50	67	1,122	41	35	42.3	51.4	20.0	13.2	.06
FEB 20-21	20040221	2335	0844	50	67	1,094	28	25	41.4	47.8	19	13.8	.06
FEB 21-22	20040222	1403	0345	50	63	1,088	26	22	42.7	49.1	24.8	11.5	.03
FEB 22-23	20040223	1615	1159	50	47.5	774	30	26	12.3	62.4	12.8	10.5	.05
FEB 23-24	20040224	1200	0234	50	25.5	454	26	20	13.8	14.8	8.1	8.5	.57
MAR 04-04	20040304	1957	2303	50	8.5	328	66	21	5.2	6.2	1.6	4.55	4.95
MAR 04-05	20040305	1957	0500	50	9.0	265	47	14	4.4	5.6	1.6	4.91	4.65
MAR 04-05	20040305	2305	0500	50	8.5	281	37	10	4.7	5.5	1.8	5.17	4.26
MAY 23-23	20040523	0017	0134	50	1.5	2,687	2,632	302	2.14	14.91	.64	1.132	.60
MAY 23-23	20040523	0343	0524	50	1.5	1,290	1,167	248	2.39	9.25	.32	1.268	.66
JUN 12-12	20040612	0054	0137	50	.5	292	204	29	1.48	3.00	.38	1.415	1.41
JUN 16-16	20040616	2002	2102	50	1.0	432	356	39	.92	2.64	.20	1.033	1.13

GALENA RIVER BASIN

423912090170800 DISCOVERY FARMS WATERWAY SITE NO. 1 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sample runoff volume, cubic feet (99906)
FEB 18-19	7.30	7.82	44	729
FEB 20-20	10.3	11.2	44	2,129
FEB 20-20	13.3	14.6	37	9,792
FEB 20-20	13.8	14.1	31	4,996
FEB 20-20	14.3	15.3	23	3,204
FEB 20-21	15.5	16.3	29	624
FEB 21-22	13.0	13.8	19	2,793
FEB 22-23	12.56	28.3	27	4,664
FEB 23-24	9.61	9.60	11	6,886
MAR 04-04	4.93	5.10	65	14,965
MAR 04-05	5.05	5.43	46	29,637
MAR 04-05	5.64	5.79	47	14,286
MAY 23-23	1.216	4.614	2,670	24,641
MAY 23-23	1.301	3.338	1,190	8,159
JUN 12-12	1.414	1.782	280	375
JUN 16-16	1.144	1.589	366	4,716

Discovery Farms Waterway Site No 1 Near Belmont, WI

Station ID: 423912090170800

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
02-18-04	2100	02-19-04	1100	738	0.02	16
02-20-04	0500	02-20-04	0704	2135	0.39	4
02-20-04	0705	02-20-04	1234	9836	0.63	11
02-20-04	1235	02-20-04	1434	5021	1.04	4
02-20-04	1435	02-20-04	2334	3231	0.48	11
02-20-04	2335	02-21-04	1402	837	0.03	9
02-21-04	1403	02-22-04	1200	2903	0.20	2
02-22-04	1548	02-23-04	1159	4675	0.20	7
02-23-04	1200	02-24-04	0400	6901	0.41	6
02-25-04	1500	02-25-04	2200	401	0.05	1
02-26-04	1400	02-26-04	1900	728	0.08	1
02-27-04	1400	02-27-04	1900	380	0.05	0
02-28-04	1300	02-28-04	1600	244	0.05	0
03-04-04	1953	03-05-04	2304	15157	3.47	9
03-04-04	2305	03-05-04	0509	14484	3.23	15
03-04-04	1953	03-05-04	0509	29641	3.47	24
05-21-04	2247	05-21-04	2301	31	0.06	0
05-23-04	0016	05-23-04	0200	24648	30.44	13
05-23-04	0342	05-23-04	0600	8165	5.98	10
05-30-04	0753	05-30-04	0902	1041	0.88	0
06-12-04	0052	06-12-04	0140	378	0.45	6
06-16-04	2001	06-16-04	2106	4721	5.41	7

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI

LOCATION.--Lat 42°39'09", long 90°17'21", Lafayette County, Hydrologic Unit 07060005, 400 ft south of intersection of Pleasant View Rd. and St. Peters Rd., east of Pleasant View Rd. in waterway, 6.4 mi south-southeast of Belmont, WI.

DRAINAGE AREA.--17.2 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

GAGE.--Water-stage recorder. Water levels are controlled by 2.5 ft H flume. Datum of gage is 1,028 ft above sea level, from topographic map.

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

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e0	0	0	0	0	0	0	0	0	0
2	---	---	e0	0	0	0	0	0	0	0	0	0
3	---	---	e0	0	0	0	0	0	0	0	0	0
4	---	---	e0	0	0	6,713	0	0	0	0	0	0
5	---	---	e0	0	0	1,231	0	0	0	0	0	0
6	---	---	e0	0	0	0	0	0	0	0	0	0
7	---	---	e0	0	0	0	0	0	0	0	0	0
8	---	---	e0	0	0	0	0	0	0	0	0	0
9	---	---	e0	0	0	0	0	0	0	0	0	0
10	---	---	e0	0	0	0	0	0	0	0	0	0
11	---	---	e0	0	0	0	0	0	0	0	0	0
12	---	---	e0	0	0	0	0	0	435	0	0	0
13	---	---	e0	0	0	0	0	0	0	0	0	0
14	---	---	e0	0	0	0	0	0	0	0	0	0
15	---	---	e0	0	0	0	0	0	0	0	0	0
16	---	---	e0	0	0	0	0	0	5,126	0	0	0
17	---	---	e0	0	0	0	0	0	0	0	0	0
18	---	---	e0	0	0	0	0	0	0	0	0	0
19	---	---	e0	0	0	0	0	0	0	0	0	0
20	---	---	0	0	e16,570	0	0	0	0	0	0	0
21	---	---	0	0	e7,387	0	0	9	0	0	0	0
22	---	---	0	0	e7,089	0	0	21	0	0	0	0
23	---	---	0	0	13,490	0	0	41,180	0	0	0	0
24	---	---	0	0	2,583	0	0	0	0	0	0	0
25	---	---	0	0	1,017	0	0	0	0	0	0	0
26	---	---	0	0	1,262	0	0	0	0	0	0	0
27	---	---	0	0	632	0	0	0	0	0	0	0
28	---	---	0	0	305	0	0	0	0	0	0	0
29	---	---	0	0	0	0	0	0	0	0	0	0
30	---	---	0	0	---	0	0	2,448	0	0	0	0
31	---	---	0	0	---	0	---	63	---	0	0	---
TOTAL	---	---	0	0	50,335	7,944	0	43,721	5,561	0	0	0
MEAN	---	---	0	0	1,736	256	0	1,410	185	0	0	0
MAX	---	---	0	0	16,570	6,713	0	41,180	5,126	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0

e Estimated

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentration for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff periods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm 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 2003 TO SEPTEMBER 2004
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105 deg C, wat unfiltered, mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
FEB													
20...	0733	.39	50	64.5	754	96	66	31.7	39.0	18.6	4.8	.2	5.58
20...	1103	.42	50	56.0	802	91	73	27.8	38.5	14.1	6.29	.2	7.17
20...	1433	.26	50	56.0	772	35	29	30.0	37.4	16.5	7.71	.2	8.84
26...	1339	.09	50	.5	182	24	10	4.12	4.88	2.0	3.33	.72	3.50
26...	1539	.09	50	3.0	146	9	4	3.21	3.36	1.6	2.93	1.00	3.01
27...	1413	.06	50	2.5	143	17	7	3.16	3.64	1.5	2.54	1.13	2.67
27...	1613	.05	50	1.5	135	10	5	3.00	3.21	1.4	2.58	.98	2.61
28...	1350	.05	50	2.0	131	14	5	2.39	3.07	1.2	2.26	1.08	2.34

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
FEB		
20...	8.13	118
20...	9.72	149
20...	11.1	92
26...	3.95	73
26...	3.20	59
27...	3.08	42
27...	2.97	64
28...	2.71	45

423909090172100 DISCOVERY FARMS WATERWAY SITE NO. 2 NEAR BELMONT, WI—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sam- pling method, code (82398)	Chlor- ide, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Residue vola- tile, sus- pended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydro- lyzable phos- phorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)
FEB 22-23	20040223	1848	1032	50	31.0	483	21	19	17.4	19.2	11.6	9.26	.09
FEB 23-24	20040224	1033	0927	50	15.0	298	18	11	9.4	10.2	6.2	5.98	.48
FEB 24-25	20040225	0928	0940	50	13.0	277	11	9	7.2	8.07	4.4	5.89	1.26
MAR 04-04	20040304	2214	2312	50	7.0	505	331	50	3.9	6.1	1.1	3.6	4.02
MAR 04-05	20040305	2214	0141	50	7.0	410	240	38	3.7	5.4	1.2	3.90	3.70
MAR 04-05	20040305	2313	0141	50	7.0	344	154	25	3.5	5.3	1.2	4.36	3.54
MAY 23-23	20040523	0017	0159	50	1.5	5,512	5,030	432	2.39	21.11	.44	1.010	.62
MAY 23-23	20040523	0339	0549	50	<.5	1,696	1,680	206	1.87	10.31	.25	1.194	.73
MAY 30-30	20040530	0756	0921	50	1.0	1,904	1,831	230	1.50	10.99	.17	1.270	1.16
MAY 31-31	20040531	0725	0754	50	1.0	1,184	1,098	161	1.63	7.65	.08	1.365	.67
JUN 16-16	20040616	2000	2111	50	.5	2,847	2,779	233	.25	9.34	.10	1.292	1.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sample runoff volume, cubic feet (99906)
FEB 22-23	9.77	10.5	33	6,029
FEB 23-24	6.35	6.91	12	11,868
FEB 24-25	6.11	6.70	83	1,562
MAR 04-04	3.79	4.69	324	3,929
MAR 04-05	4.14	4.80	240	7,938
MAR 04-05	4.40	5.17	118	3,927
MAY 23-23	1.040	6.697	5,499	32,116
MAY 23-23	1.188	4.082	1,634	9,050
MAY 30-30	1.309	4.469	1,831	2,435
MAY 31-31	1.326	3.716	1,082	58
JUN 16-16	1.364	2.963	2,804	5,125

Discovery Farms Waterway Site No 2 Near Belmont, WI
Station ID: 423909090172100

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
02-20-04	0459	02-20-04	0917	4510	0.45	1
02-20-04	0917	02-20-04	1247	5104	0.43	1
02-20-04	1247	02-21-04	1115	9176	0.40	1
02-21-04	1115	02-23-04	1032	15167	0.31	8
02-23-04	1032	02-24-04	0927	11870	0.54	11
02-24-04	0927	02-25-04	1918	2308	0.06	12
02-26-04	1200	02-26-04	1438	523	0.11	1
02-26-04	1438	02-26-04	1902	733	0.11	1
02-27-04	1320	02-27-04	1512	296	0.06	1
02-27-04	1512	02-27-04	1800	336	0.06	1
02-28-04	1220	02-28-04	1500	305	0.07	1
03-04-04	2210	03-04-04	2312	3930	1.41	3
03-04-04	2312	03-05-04	0200	4014	1.36	7
03-04-04	2210	03-05-04	0200	7944	1.41	10
05-21-04	2252	05-21-04	2303	8	0.03	0
05-22-04	0403	05-22-04	0426	19	0.03	0
05-23-04	0016	05-23-04	0210	32121	35.15	14
05-23-04	0337	05-23-04	0615	9059	5.96	6
05-30-04	0754	05-30-04	0931	2444	1.11	9
05-31-04	0721	05-31-04	0800	63	0.06	2
06-12-04	0055	06-12-04	0133	435	0.48	0
06-16-04	1959	06-16-04	2119	5127	3.60	7

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

LOCATION.--Lat 42°38'46", long 90°17'16", Lafayette County, 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.--39.5 acres.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

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

REMARKS.--Records excellent. Note that discharge is the daily sum, in cubic feet.

DAILY SUM DISCHARGE, CUBIC FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e0	0	0	0	0	0	0	0	0	0
2	---	---	e0	0	0	0	0	0	0	0	0	0
3	---	---	e0	0	0	0	0	0	0	0	0	0
4	---	---	e0	0	0	7,854	0	0	0	0	0	0
5	---	---	e0	0	0	2,322	0	0	0	0	0	0
6	---	---	e0	0	0	0	0	0	67	0	0	0
7	---	---	e0	0	0	0	0	0	0	0	0	0
8	---	---	e0	0	0	0	0	0	0	0	0	0
9	---	---	e0	0	0	0	0	0	0	0	0	0
10	---	---	e0	0	0	0	0	0	1,650	0	0	0
11	---	---	e0	0	0	0	0	0	28	0	0	0
12	---	---	e0	0	0	0	0	0	2,062	0	0	0
13	---	---	e0	0	0	0	0	0	0	0	0	0
14	---	---	e0	0	0	0	0	0	39	0	0	0
15	---	---	e0	0	0	0	0	0	0	0	0	0
16	---	---	e0	0	0	0	0	0	14,100	0	0	0
17	---	---	e0	0	0	0	0	0	463	0	0	0
18	---	---	e0	0	0	0	0	0	0	0	0	0
19	---	---	e0	0	0	0	0	0	0	0	0	0
20	---	---	0	0	13,260	0	0	0	0	0	0	0
21	---	---	0	0	11,890	0	0	163	0	0	0	0
22	---	---	0	0	15,900	0	0	77	0	0	0	0
23	---	---	0	0	40,560	0	0	45,790	0	0	0	0
24	---	---	0	0	6,069	0	0	0	0	0	0	0
25	---	---	0	0	968	0	0	0	0	0	0	0
26	---	---	0	0	1,055	0	0	0	0	0	0	0
27	---	---	0	0	223	0	0	0	0	0	0	0
28	---	---	0	0	171	0	0	0	0	0	0	0
29	---	---	0	0	0	0	0	0	0	0	0	0
30	---	---	0	0	---	0	0	2,560	0	0	0	0
31	---	---	0	0	---	0	---	263	---	0	0	---
TOTAL	---	---	0	0	90,096	10,176	0	48,853	18,409	0	0	0
MEAN	---	---	0	0	3,107	328	0	1,576	614	0	0	0
MAX	---	---	0	0	40,560	7,854	0	45,790	14,100	0	0	0
MIN	---	---	0	0	0	0	0	0	0	0	0	0

e Estimated

WATER QUALITY RECORDS

PERIOD OF RECORD.--December 2003 to September 2004.

INSTRUMENTATION.--Water-quality sampler since December 2003.

REMARKS.--Chemical analyses by the Water and Environmental Analysis Lab (formerly the Environmental Task Force Lab) at the University of Wisconsin-Stevens Point. Samples with start and end dates/times are flow-composite samples which represent the event-mean concentration for the specified runoff period. Samples with only start dates/times are discrete samples collected by the same automatic point sampler. Runoff periods which were not sampled have zero subsamples. The sample runoff volume is the total flow that occurs between the start and end time of each flow-composite sample. The storm runoff volume is the total flow that occurs between the time that runoff starts and ends. In most cases, the sample runoff volume is slightly less than the storm runoff volume. A storm load (in pounds) can be computed by multiplying the storm 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 2003 TO SEPTEMBER 2004
DISCRETE SAMPLES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unfltrd, mg/L (00500)	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydrolyzable phosphorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L (00666)
JUN 16...	2328	.031	50	2.5	210	4	1	1.08	1.31	.21	.64	2.59	.718

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
JUN 16...	.740	23

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
COMPOSITE SAMPLES

Date	End date	Time	End time	Sam- pling method, code (82398)	Chlor- ide, water, fltrd, mg/L (00940)	Residue on evap. at 105degC wat unf mg/L (00500)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Residue vola- tile, sus- pended, mg/L (00535)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Hydro- lyzable phos- phorus, water, fltrd, mg/L (00672)	Nitrite + nitrate water fltrd, mg/L as N (00631)	
FEB														
FEB	20-20	20040220	0522	1139	50	2.0	136	18	7	3.1	3.1	1.42	1.5	1.74
FEB	20-20	20040220	1140	1439	50	3.0	160	11	6	3.3	2.8	1.03	2.38	2.18
FEB	20-21	20040221	1440	0039	50	3.0	158	10	5	2.5	3.0	.87	2.44	2.07
FEB	21-21	20040221	0040	1624	50	8.0	168	4	3	2.2	3.1	.78	2.31	2.00
FEB	21-22	20040222	1625	0930	50	13.0	216	7	5	2.5	2.9	.64	2.58	2.26
FEB	22-23	20040223	0931	0938	50	10.5	165	8	4	1.7	2.3	.32	1.96	1.83
FEB	23-23	20040223	0939	2338	50	7.0	130	12	4	1.6	1.7	.12	1.67	1.09
FEB	23-24	20040224	2338	2026	50	4.0	126	3	<1	1.5	1.6	.11	2.05	1.15
FEB	24-25	20040225	2026	1334	50	6.0	146	4	4	1.9	2.17	.5	2.56	1.36
MAR	04-04	20040304	2205	2324	50	.5	214	140	23	1.2	2.2	<.1	1.46	1.37
MAR	04-05	20040305	2205	0149	50	1.0	192	102	18	1.2	1.8	<.1	1.51	1.55
MAR	04-05	20040305	2325	0149	50	.5	204	110	18	1.3	1.9	<.1	1.53	1.64
MAY	21-21	20040521	2245	2304	50	1.0	3,402	3,238	423	1.93	19.62	.15	1.157	1.00
MAY	22-22	20040522	0358	0416	50	1.0	2,442	2,432	341	2.02	16.55	.17	1.036	.43
MAY	23-23	20040523	0018	0223	50	<.5	1,711	1,647	189	1.91	10.42	.15	.914	.36
MAY	30-30	20040530	0753	0836	50	.5	2,462	917	140	1.69	9.41	.22	1.165	.65
MAY	30-30	20040530	0847	1044	50	<.5	373	281	42	2.30	3.80	.22	1.240	.95
MAY	31-31	20040531	0722	0903	50	1.5	224	40	7	2.08	2.58	.13	.770	1.14
JUN	10-10	20040610	1403	1527	50	5.5	272	13	5	1.89	2.27	.27	.841	2.20
JUN	10-10	20040610	1700	1800	50	3.5	221	41	7	1.48	1.93	.25	.627	1.82
JUN	10-11	20040611	2024	0012	50	4.5	256	4	2	1.37	1.44	.13	.615	3.04
JUN	12-12	20040612	0050	0746	50	2.0	259	113	19	1.36	2.42	.22	.621	1.21
JUN	16-16	20040616	1959	2323	50	.5	314	244	33	.94	2.39	.19	.968	.63

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sample runoff volume, cubic feet (99906)
FEB 20-20	1.51	1.55	19	454
FEB 20-20	2.46	2.53	13	3,721
FEB 20-21	2.43	2.74	8	9,422
FEB 21-21	2.57	2.80	3	7,022
FEB 21-22	2.95	3.16	10	10,087
FEB 22-23	2.24	2.23	7	17,763
FEB 23-23	1.93	1.89	5	32,785
FEB 23-24	2.28	2.38	4	5,986
FEB 24-25	2.43	2.65	11	1,270
MAR 04-04	1.47	1.90	138	4,047
MAR 04-05	1.64	1.92	117	10,171
MAR 04-05	1.66	1.92	98	5,861
MAY 21-21	1.187	6.495	3,283	161
MAY 22-22	1.088	5.681	2,449	75
MAY 23-23	.966	3.680	1,678	27,814
MAY 30-30	1.129	3.006	1,111	216
MAY 30-30	1.279	1.938	282	2,337
MAY 31-31	.795	.997	67	251
JUN 10-10	.918	1.08	12	170
JUN 10-10	.691	.785	71	573
JUN 10-11	.670	.694	16	265
JUN 12-12	.703	.952	137	2,056
JUN 16-16	1.072	1.459	266	14,038

Discovery Farms Waterway Site No 3 Near Belmont, WI

Station ID: 423846090171600

Storm Beginning Date	Storm Beginning Time	Storm Ending Date	Storm Ending Time	Storm Runoff Volume, Cubic Feet	Peak Discharge (CFS)	Number of Subsamples
02-20-04	0500	02-20-04	1139	459	0.03	8
02-20-04	1139	02-20-04	1439	3722	0.45	6
02-20-04	1439	02-21-04	0039	9447	0.43	11
02-21-04	0039	02-21-04	1624	7031	0.16	11
02-21-04	1624	02-22-04	0930	10098	0.29	4
02-22-04	0930	02-23-04	0938	17767	0.40	11
02-23-04	0938	02-23-04	2338	32795	1.81	7
02-23-04	2338	02-24-04	2026	5986	0.22	10
02-24-04	2026	02-25-04	1700	1327	0.03	5
02-26-04	1400	02-26-04	1800	1055	0.16	0
02-27-04	1400	02-27-04	1800	223	0.04	0
02-28-04	1230	02-28-04	1430	167	0.04	0
03-04-04	2202	03-04-04	2324	4049	2.46	3
03-04-04	2324	03-05-04	0201	5993	2.21	7
03-04-04	2202	03-05-04	0201	10176	2.46	10
05-21-04	2244	05-21-04	2309	163	0.27	4
05-22-04	0356	05-22-04	0418	77	0.14	3
05-23-04	0017	05-23-04	0300	27826	19.76	14
05-23-04	0334	05-23-04	0639	17963	9.44	0
05-30-04	0752	05-30-04	0847	218	0.16	4
05-30-04	0847	05-30-04	1100	2342	1.20	12
05-31-04	0720	05-31-04	0940	263	0.07	9
06-06-04	0037	06-06-04	0300	67	0.01	0
06-10-04	1400	06-10-04	1600	178	0.07	18
06-10-04	1651	06-10-04	2024	1211	0.30	6
06-10-04	2024	06-11-04	0200	286	0.04	6
06-12-04	0049	06-12-04	0800	2062	0.82	13
06-14-04	0938	06-14-04	1100	39	0.01	0
06-16-04	1957	06-16-04	2323	14039	6.39	23
06-16-04	2323	06-17-04	0800	526	0.03	1

423900090172100 DISCOVERY FARMS WEATHER STATION NEAR BELMONT, WI—Continued

GALENA RIVER BASIN

423900090172100 DISCOVERY FARMS WEATHER STATION NEAR BELMONT, WI

LOCATION.--Lat 42°39'00", long 90°17'21", Lafayette County, Hydrologic Unit 07060005, 1,270 ft south of intersection of Pleasant View Rd. and St. Peters Rd., 30 ft east of Pleasant View Rd., 6.5 mi south-southeast of Belmont, WI.

PERIOD OF RECORD.--November 2003 to September 2004.

GAGE.--Tipping bucket rain gage with electronic datalogger.

REMARKS.--Gage established Nov. 19, 2003. Rainfall for Nov. 1-19 and Dec. 3-5 estimated from nearby rain gage at U.W. Platteville Farms Met Site near Platteville, WI (Station number 424231090231900). Rainfall estimated to be 0.00 for Dec. 5, 15-16, and Feb. 26 because recorded precipitation was interpreted as collector snowmelt.

EXTREMES FOR CURRENT PERIOD.--Maximum daily rainfall, 1.91 in., May 23.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e0.16	0.00	0.00	0.00	0.16	0.00	0.00	0.01	0.00	0.00	0.00
2	---	e1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.21	0.00
3	---	e2.25	e0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.46	0.45	0.00
4	---	e0.86	e0.00	0.00	0.00	1.02	0.00	0.01	0.00	0.00	0.16	0.00
5	---	e0.00	e0.04	0.00	0.00	0.26	0.00	0.00	0.07	0.07	0.00	0.00
6	---	e0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.15	0.90	0.00	0.00
7	---	e0.00	0.04	0.00	0.00	0.00	0.00	0.40	0.00	0.01	0.00	0.00
8	---	e0.00	0.02	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.02	0.00
9	---	e0.00	0.66	0.00	0.00	0.06	0.00	0.13	0.00	0.37	0.02	0.00
10	---	e0.00	0.44	0.00	0.00	0.02	0.00	0.23	1.25	0.00	0.00	0.00
11	---	e0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.56	0.00	0.00
12	---	e0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.66	0.00	0.00	0.00
13	---	e0.00	0.00	0.00	0.00	0.28	0.00	0.28	0.01	0.01	0.00	0.00
14	---	e0.00	0.00	0.00	0.00	0.04	0.00	0.22	0.19	0.00	0.00	0.00
15	---	e0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.70
16	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	0.17	0.18	0.00
17	---	e0.05	0.00	0.00	0.00	0.04	0.23	0.38	0.06	0.00	0.00	0.00
18	---	e0.04	0.00	0.00	0.00	0.13	0.02	0.00	0.02	0.00	0.01	0.00
19	---	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	---	0.00	0.00	0.00	0.37	0.00	0.49	0.00	0.00	0.00	0.00	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.12	1.57	0.24	1.05	0.00	0.00
22	---	0.53	0.00	0.00	0.12	0.00	0.00	1.24	0.00	0.00	0.00	0.00
23	---	1.41	0.00	0.00	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.08
24	---	0.00	0.00	0.00	0.00	0.49	0.05	0.01	0.31	0.00	0.33	0.01
25	---	0.00	0.00	0.00	0.00	0.49	0.06	0.09	0.00	0.00	0.00	0.00
26	---	0.00	0.00	0.00	0.00	0.16	0.01	0.00	0.00	0.00	0.52	0.00
27	---	0.00	0.18	0.00	0.00	0.05	0.00	0.00	0.16	0.00	0.07	0.00
28	---	0.00	0.04	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.30	0.00
29	---	0.00	0.00	0.00	0.04	0.01	0.00	0.98	0.00	0.36	0.01	0.00
30	---	0.00	0.00	0.00	---	0.03	0.00	1.05	0.00	0.03	0.01	0.00
31	---	---	0.00	0.00	---	0.00	---	0.51	---	0.00	0.00	---
TOTAL	---	6.72	1.42	0.00	0.53	3.65	0.99	9.29	4.63	3.99	2.29	0.79

e Estimated