

## ILLINOIS RIVER BASIN

## 05515500 KANKAKEE RIVER AT DAVIS, IN

LOCATION.--Lat 41°24'00", long 86°42'04", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.13, T.34 N., R.3 W., Starke County, Hydrologic Unit 07120001, (KINGSFORD HEIGHTS, IN quadrangle), on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mi downstream from Mill Creek, 4 mi east of Hanna, and at mile 110.9.

DRAINAGE AREA.--537 mi<sup>2</sup>, of which 137 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1905 to July 1906 and October 1924 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1338: 1953. WSP 2115: Drainage area.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity meter. Datum of gage is 664.68 ft above National Geodetic Vertical Datum of 1929. July 13, 1905, to July 21, 1906, nonrecording gage at site 50 ft downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mi downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	261	323	529	600	e399	608	528	374	542	315	252	763
2	254	308	502	571	e423	757	503	393	516	304	242	643
3	256	308	478	545	449	772	484	384	464	302	233	576
4	258	311	469	519	443	714	472	367	426	322	269	565
5	261	354	467	504	434	898	459	365	404	322	319	532
6	257	525	475	470	398	1,090	455	359	385	308	287	489
7	254	455	486	434	379	1,000	455	353	365	316	271	459
8	251	410	476	493	356	899	451	347	350	314	255	435
9	251	373	473	467	347	813	445	343	343	295	244	414
10	245	356	512	431	346	752	421	390	343	301	241	400
11	244	350	611	424	342	692	420	411	409	297	239	385
12	235	350	616	420	340	653	413	395	595	300	233	368
13	236	334	545	420	333	618	410	379	980	286	231	357
14	261	324	456	413	333	600	406	e408	960	288	235	349
15	346	322	405	407	333	576	408	e522	905	287	251	344
16	375	318	408	397	321	562	404	e523	777	269	231	354
17	349	314	420	392	328	545	408	e472	675	279	231	347
18	334	340	411	400	326	544	395	e442	607	294	442	334
19	323	620	412	386	334	547	387	e436	555	282	483	326
20	321	769	426	380	352	540	385	424	508	272	427	316
21	320	683	415	375	476	521	405	419	484	264	390	311
22	311	586	421	375	546	502	396	424	482	373	359	305
23	304	523	445	344	570	494	383	442	450	398	331	300
24	296	651	552	409	611	502	376	424	427	361	314	295
25	311	865	561	419	625	502	385	419	403	328	353	293
26	344	782	519	423	622	530	386	418	380	307	584	290
27	345	690	487	417	595	612	373	400	370	294	725	288
28	344	636	477	378	578	622	358	385	362	273	833	289
29	346	584	564	e372	565	590	356	365	354	252	1,090	288
30	337	556	701	e379	---	557	355	367	329	246	1,090	290
31	331	---	669	e386	---	546	---	463	---	257	924	---
TOTAL	9,161	14,320	15,388	13,350	12,504	20,158	12,482	12,613	15,150	9,306	12,609	11,705
MEAN	296	477	496	431	431	650	416	407	505	300	407	390
MAX	375	865	701	600	625	1,090	528	523	980	398	1,090	763
MIN	235	308	405	344	321	494	355	343	329	246	231	288
CFSM	0.55	0.89	0.92	0.80	0.80	1.21	0.77	0.76	0.94	0.56	0.76	0.73
IN.	0.63	0.99	1.07	0.92	0.87	1.40	0.86	0.87	1.05	0.64	0.87	0.81

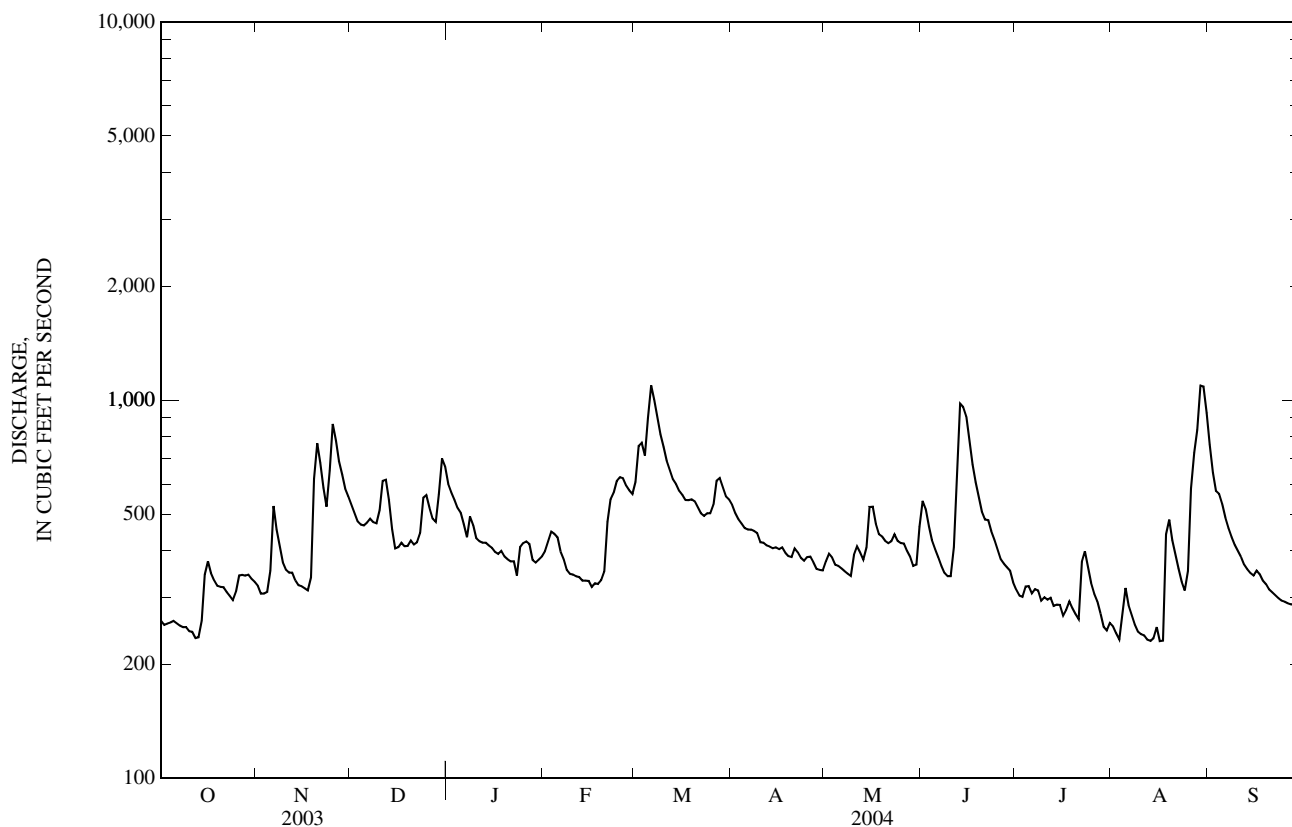
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2004, BY WATER YEAR (WY)

	409	475	516	542	583	714	732	629	532	424	360	345
MEAN	409	475	516	542	583	714	732	629	532	424	360	345
MAX	1,162	988	1,191	1,275	990	1,376	1,218	1,067	1,076	983	804	718
(WY)	(1955)	(1991)	(1928)	(1993)	(1991)	(1985)	(1982)	(1983)	(1996)	(1996)	(1996)	(1972)
MIN	198	230	236	235	236	325	397	296	248	205	174	179
(WY)	(1964)	(1965)	(1964)	(1963)	(1964)	(1934)	(2003)	(1934)	(1934)	(1934)	(1941)	(1941)

## 05515500 KANKAKEE RIVER AT DAVIS, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004	
ANNUAL TOTAL	140,067		158,746			
ANNUAL MEAN	384		434		521	
HIGHEST ANNUAL MEAN					823	
LOWEST ANNUAL MEAN					293	
HIGHEST DAILY MEAN	1,550	May 10	1,090	Mar 6	1,920	Mar 20, 1982
LOWEST DAILY MEAN	175	Aug 25	231	Aug 13	154	Aug 30, 1941
ANNUAL SEVEN-DAY MINIMUM	186	Aug 20	236	Aug 11	156	Aug 28, 1941
MAXIMUM PEAK FLOW			1,160	Aug 29	1,920	Mar 20, 1982
MAXIMUM PEAK STAGE			10.47	Aug 29	13.79	Jul 19, 1996
ANNUAL RUNOFF (CFSM)	0.715		0.808		0.970	
ANNUAL RUNOFF (INCHES)	9.70		11.00		13.18	
10 PERCENT EXCEEDS	563		619		885	
50 PERCENT EXCEEDS	337		400		449	
90 PERCENT EXCEEDS	242		277		276	

e Estimated



## 05516500 YELLOW RIVER AT PLYMOUTH, IN

LOCATION.--Lat 41°20'25", long 86°18'16", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.13, T.33 N., R.2 E., Marshall County, Hydrologic Unit 07120001. (PLYMOUTH, IN quadrangle), on left bank 50 ft upstream from LaPorte Street footbridge in Plymouth, 1.1 mi downstream from Elmer Seltentright (formerly Baker) Ditch, 8.1 mi upstream from Wolf Creek, and at mile 40.3.

DRAINAGE AREA.--294 mi<sup>2</sup>, of which 22 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1338: 1950-51. WSP 2115: Drainage area. WDR IN-73-1: 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 764.78 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	112	123	290	626	e92	532	220	94	1,440	120	100	260
2	97	115	249	419	e91	906	200	117	1,530	116	93	183
3	90	116	225	375	e90	964	187	118	1,210	113	87	264
4	92	119	210	337	e90	630	176	105	627	129	124	892
5	88	229	214	315	e89	878	159	99	333	130	119	1,000
6	81	471	219	270	e89	1,260	150	97	255	127	99	537
7	77	328	211	237	e89	1,230	143	119	214	478	87	335
8	74	232	205	267	e88	758	138	131	187	342	80	262
9	70	184	231	233	e87	462	131	134	172	193	78	203
10	68	163	351	205	e86	373	122	535	169	159	76	166
11	65	158	555	200	e86	330	118	400	417	137	69	143
12	64	157	458	203	e85	289	115	264	991	125	66	128
13	64	145	306	197	e83	248	112	254	1,480	115	64	116
14	83	128	255	192	e83	233	110	393	1,910	158	64	109
15	206	121	226	187	e83	224	105	692	2,140	164	74	105
16	235	118	207	169	e82	210	102	460	2,010	123	70	130
17	169	115	202	163	e81	205	103	293	1,580	121	78	116
18	137	244	192	e149	e81	200	100	270	997	127	110	105
19	123	892	176	e138	e80	194	97	237	479	177	133	97
20	110	1,260	163	e131	127	190	99	208	339	129	147	91
21	103	1,360	152	e125	418	189	106	215	282	121	146	87
22	99	1,050	161	e118	399	171	103	490	251	489	114	83
23	92	608	400	e110	534	165	95	414	217	815	93	81
24	86	865	874	e109	543	170	93	558	192	554	82	77
25	112	1,190	860	e107	523	185	93	456	175	268	86	74
26	213	1,160	485	e104	525	249	95	330	161	192	175	73
27	215	776	346	e102	491	345	90	256	149	160	210	70
28	181	503	319	e100	457	299	87	209	142	138	488	70
29	166	398	609	e98	435	261	84	174	134	122	860	72
30	147	338	1,050	e95	---	233	84	212	127	114	741	70
31	133	---	1,060	e94	---	233	---	949	---	109	384	---
TOTAL	3,652	13,666	11,461	6,175	6,087	12,816	3,617	9,283	20,310	6,365	5,197	5,999
MEAN	118	456	370	199	210	413	121	299	677	205	168	200
MAX	235	1,360	1,060	626	543	1,260	220	949	2,140	815	860	1,000
MIN	64	115	152	94	80	165	84	94	127	109	64	70
CFSM	0.40	1.55	1.26	0.68	0.71	1.41	0.41	1.02	2.30	0.70	0.57	0.68
IN.	0.46	1.73	1.45	0.78	0.77	1.62	0.46	1.17	2.57	0.81	0.66	0.76

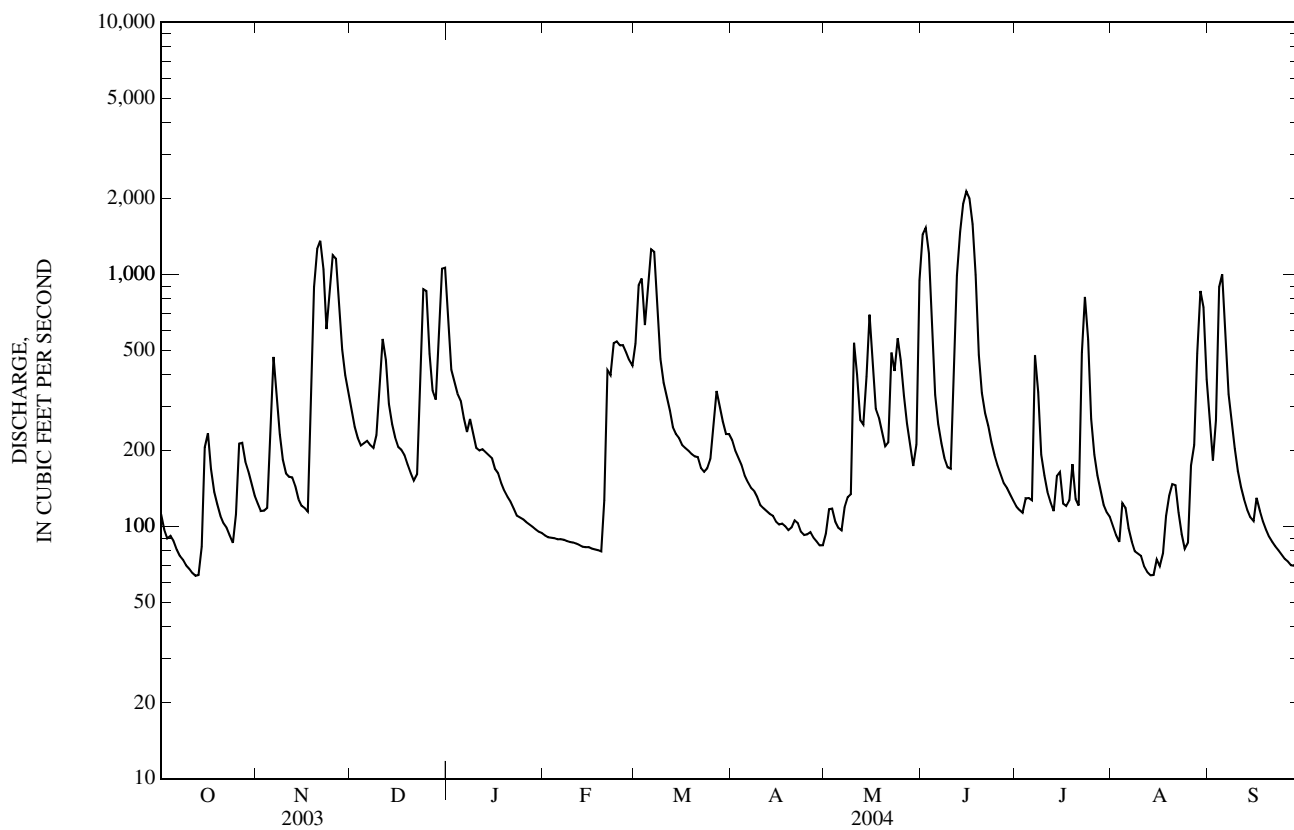
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	153	193	267	301	378	514	488	306	264	175	109	94.3
MAX	1,583	689	733	1,244	1,132	1,586	1,190	1,098	850	711	494	536
(WY)	(1955)	(1993)	(1983)	(1993)	(2001)	(1982)	(1950)	(1996)	(1996)	(1996)	(1958)	(1972)
MIN	23.7	20.9	30.4	26.5	35.7	79.5	99.8	65.4	51.2	39.4	31.2	22.4
(WY)	(1965)	(1965)	(1954)	(1963)	(1963)	(1957)	(1971)	(1958)	(1988)	(1988)	(1949)	(1949)

05516500 YELLOW RIVER AT PLYMOUTH, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	69,165		104,628			
ANNUAL MEAN	189		286		269	
HIGHEST ANNUAL MEAN					453	1993
LOWEST ANNUAL MEAN					119	1957
HIGHEST DAILY MEAN	1,570	May 11	2,140	Jun 15	5,310	Oct 13, 1954
LOWEST DAILY MEAN	34	Jan 7	64	Oct 12	13	Dec 3, 1964
ANNUAL SEVEN-DAY MINIMUM	38	Jan 24	69	Oct 7	15	Dec 2, 1964
MAXIMUM PEAK FLOW			2,160	Jun 15	5,390	Oct 12, 1954
MAXIMUM PEAK STAGE			12.38	Jun 15	17.13	Oct 12, 1954
ANNUAL RUNOFF (CFSM)	0.645		0.972		0.916	
ANNUAL RUNOFF (INCHES)	8.75		13.24		12.45	
10 PERCENT EXCEEDS	453		628		671	
50 PERCENT EXCEEDS	98		166		131	
90 PERCENT EXCEEDS	42		84		40	

e Estimated



## ILLINOIS RIVER BASIN

## 05517000 YELLOW RIVER AT KNOX, IN

LOCATION.--Lat 41°18'10", long 86°37'14", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec.14, T.33 N., R.2 W., Starke County, Hydrologic Unit 07120001, (KNOX EAST, IN quadrangle), on right bank 40 ft upstream from bridge on U.S. Highway 35 in Knox, 0.3 mi north of Knox, 1.4 mi downstream from Eagle Creek, and at mile 11.6.

DRAINAGE AREA.--435 mi<sup>2</sup>, of which 51 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--August 1905 to July 1906, August 1943 to current year.

REVISED RECORDS.--WSP 1278: 1952. WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 679.93 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

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	217	228	603	1,210	e215	680	432	194	1,170	261	203	653
2	198	216	539	922	e214	843	405	216	1,400	245	185	503
3	182	205	490	710	e212	1,030	374	228	1,540	235	168	424
4	174	208	457	649	e209	1,100	344	226	1,440	244	218	602
5	174	237	448	601	e207	982	325	209	957	259	272	965
6	165	390	451	563	e205	1,100	307	199	606	253	237	1,080
7	157	580	445	557	e203	1,270	299	203	500	323	203	771
8	150	465	432	492	e201	1,360	295	240	437	636	186	568
9	145	365	430	486	e200	1,050	285	244	391	461	175	478
10	140	310	487	481	e198	737	272	317	363	332	174	405
11	135	287	647	414	e197	634	259	645	439	293	171	353
12	127	280	779	407	e196	571	254	532	807	266	162	319
13	124	267	673	407	e194	514	249	407	1,190	240	155	292
14	141	252	537	396	e192	472	243	480	1,410	218	150	274
15	169	235	481	387	e191	452	240	666	1,780	264	143	259
16	306	227	444	370	e190	432	231	832	2,090	259	156	259
17	332	222	420	353	e190	416	234	631	2,130	227	160	271
18	265	257	403	342	e192	407	229	481	1,870	219	224	252
19	224	625	387	335	e193	396	219	436	1,360	229	269	236
20	203	994	363	e325	211	385	219	391	789	274	293	222
21	185	1,170	342	e311	342	378	228	358	611	230	328	212
22	175	1,340	332	e300	643	363	228	441	535	365	319	205
23	171	1,260	397	e287	632	339	221	653	480	723	262	197
24	161	1,040	734	e273	754	334	210	640	428	904	227	191
25	176	1,110	991	e260	756	340	209	748	390	697	218	185
26	234	1,240	1,020	e251	739	381	206	627	361	440	282	177
27	333	1,310	733	e241	738	485	201	504	333	344	401	175
28	333	1,070	600	e229	706	546	196	418	311	293	537	173
29	296	799	647	e221	673	499	188	351	295	254	892	173
30	271	676	948	e218	---	457	186	333	280	229	1,070	172
31	247	---	1,150	e216	---	441	---	740	---	217	976	---
TOTAL	6,310	17,865	17,810	13,214	9,993	19,394	7,788	13,590	26,693	10,434	9,416	11,046
MEAN	204	596	575	426	345	626	260	438	890	337	304	368
MAX	333	1,340	1,150	1,210	756	1,360	432	832	2,130	904	1,070	1,080
MIN	124	205	332	216	190	334	186	194	280	217	143	172
CFSM	0.47	1.37	1.32	0.98	0.79	1.44	0.60	1.01	2.05	0.77	0.70	0.85
IN.	0.54	1.53	1.52	1.13	0.85	1.66	0.67	1.16	2.28	0.89	0.81	0.94

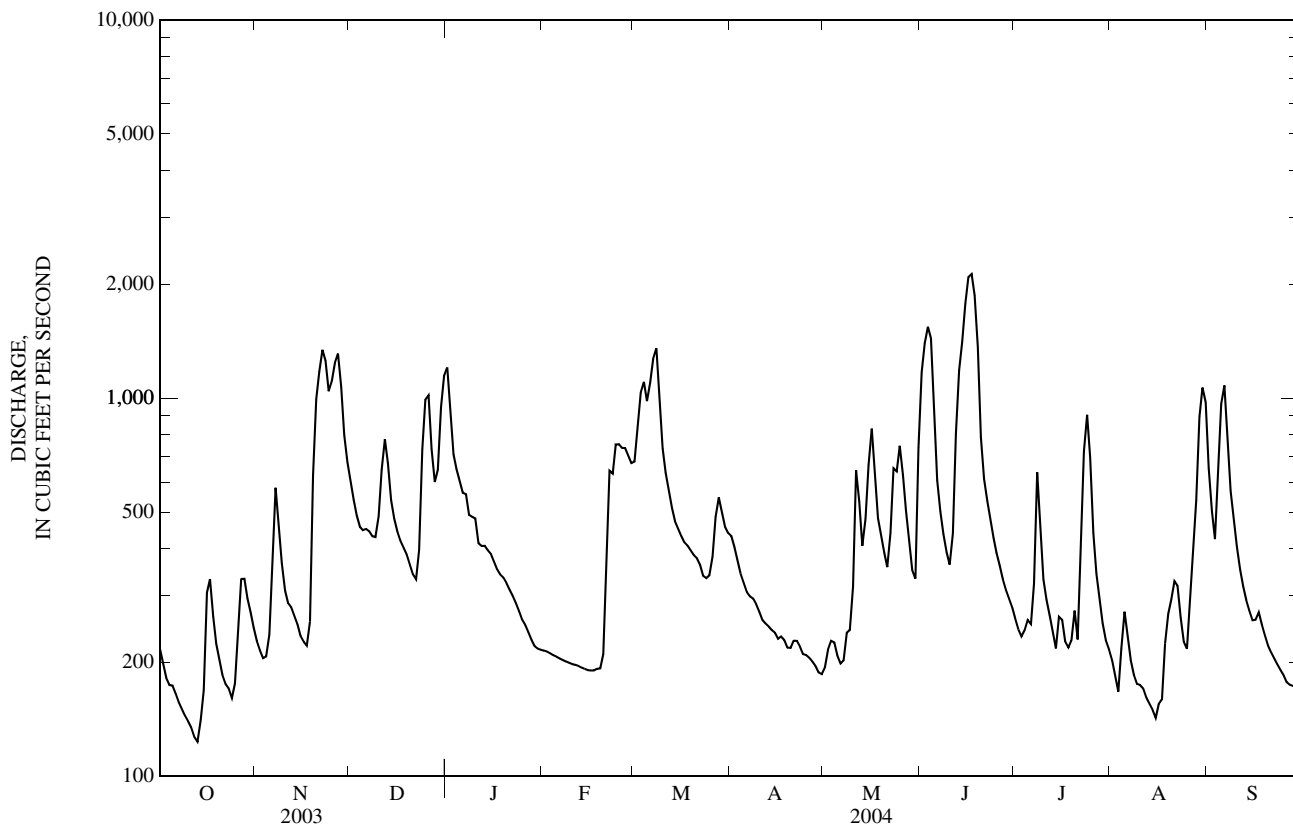
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	256	301	388	440	524	708	706	511	426	289	207	181
MAX	1,939	883	1,070	1,580	1,289	2,127	1,714	1,154	1,113	955	652	692
(WY)	(1955)	(1973)	(1967)	(1993)	(2001)	(1982)	(1950)	(1996)	(1975)	(1996)	(1958)	(1972)
MIN	77.5	83.3	91.6	71.3	107	194	243	169	146	115	93.6	75.9
(WY)	(1965)	(1965)	(1964)	(1963)	(1963)	(1957)	(1958)	(1958)	(1988)	(1971)	(1964)	(1964)

05517000 YELLOW RIVER AT KNOX, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	113,758		163,553			
ANNUAL MEAN	312		447		411	
HIGHEST ANNUAL MEAN					661	1950
LOWEST ANNUAL MEAN					180	1964
HIGHEST DAILY MEAN	1,490	May 13	2,130	Jun 17	5,600	Oct 15, 1954
LOWEST DAILY MEAN	81	Jul 3	124	Oct 13	47	Jan 2, 1999
ANNUAL SEVEN-DAY MINIMUM	92	Jan 25	137	Oct 8	50	Jan 21, 1963
MAXIMUM PEAK FLOW			2,160	Jun 17	5,660	Oct 15, 1954
MAXIMUM PEAK STAGE			8.91	Jun 17	13.75	Oct 15, 1954
ANNUAL RUNOFF (CFSM)	0.716		1.03		0.944	
ANNUAL RUNOFF (INCHES)	9.73		13.99		12.82	
10 PERCENT EXCEEDS	656		951		882	
50 PERCENT EXCEEDS	208		332		267	
90 PERCENT EXCEEDS	109		186		113	

e Estimated



## 05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN

LOCATION.--Lat 41°13'10", long 86°58'07", in NE¼SE¼ sec.15, T.32 N., R.5 W., Porter County, Hydrologic Unit 07120001, (SAN PIERRE, IN quadrangle), on right bank at downstream side of county road 500E bridge at Dunns Bridge, 1.8 mi north of Tefft, 3.6 mi upstream from Davis Ditch, and at mile 90.8.

DRAINAGE AREA.--1,352 mi<sup>2</sup>, of which 192 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 1728: 1954(m). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 649.65 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 17, 1956, nonrecording gage, and July 17, 1956 to Oct. 31 1998, water-stage recorder at site 250 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	597	718	1,760	2,130	e971	1,550	1,400	844	1,890	878	697	2,550
2	588	703	1,640	2,140	e997	1,690	1,360	865	2,100	833	660	2,210
3	582	714	1,530	1,930	e1,050	1,890	1,300	879	2,190	797	621	1,880
4	586	710	1,430	1,770	e1,100	2,030	1,250	858	2,210	811	688	1,700
5	576	762	1,380	1,670	e1,100	2,210	1,180	839	2,140	825	820	1,780
6	544	908	1,360	1,550	e1,080	2,380	1,140	811	1,790	819	805	1,930
7	540	1,040	1,350	1,430	e1,010	2,530	1,130	807	1,460	833	724	1,950
8	537	1,050	1,340	1,290	e963	2,640	1,130	819	1,260	970	678	1,680
9	532	992	1,340	1,380	e916	2,640	1,120	829	1,190	1,050	644	1,440
10	523	947	1,370	1,310	e896	2,430	1,090	860	1,130	904	626	1,290
11	512	923	1,490	1,260	866	2,150	1,060	1,060	1,240	834	628	1,130
12	502	935	1,630	1,250	855	1,950	1,020	1,230	1,540	797	606	1,050
13	494	920	1,670	1,220	833	1,800	1,010	1,100	2,030	754	599	973
14	532	878	1,590	1,200	820	1,710	995	1,050	2,370	709	581	e898
15	647	849	1,500	1,170	807	1,620	977	1,210	2,560	671	571	e872
16	753	834	1,440	1,140	765	1,550	956	1,460	2,690	695	565	e851
17	819	811	1,380	1,120	768	1,490	987	1,510	2,840	675	541	e836
18	789	850	1,330	1,100	778	1,440	962	1,310	2,940	676	729	e822
19	748	1,170	1,300	1,050	782	1,410	917	1,200	2,910	691	1,060	e810
20	709	1,680	1,250	1,040	835	1,400	902	1,150	2,680	754	1,130	e792
21	682	1,940	1,220	985	962	1,370	922	1,100	2,230	726	1,130	e769
22	653	2,070	1,240	959	1,200	1,320	926	1,070	1,870	1,120	1,060	747
23	616	2,210	1,300	945	1,370	1,280	898	1,200	1,610	1,370	976	734
24	580	2,320	1,430	886	1,460	1,250	881	1,310	1,410	1,500	879	710
25	589	2,380	1,690	1,020	1,560	1,250	892	1,320	1,290	1,520	929	705
26	639	2,430	1,840	1,020	1,590	1,310	871	1,360	1,190	1,240	1,130	691
27	687	2,470	1,810	1,060	1,590	1,440	869	1,240	1,110	1,000	1,540	687
28	745	2,450	1,630	e1,030	1,570	1,550	847	1,130	1,070	896	1,770	670
29	764	2,240	1,620	e969	1,540	1,560	830	1,030	999	793	2,170	668
30	762	1,940	1,780	e945	---	1,500	829	1,000	939	731	2,510	668
31	738	---	2,010	e953	---	1,450	---	1,410	---	718	2,640	---
TOTAL	19,565	40,844	46,650	38,922	31,034	53,790	30,651	33,861	54,878	27,590	30,707	34,493
MEAN	631	1,361	1,505	1,256	1,070	1,735	1,022	1,092	1,829	890	991	1,150
MAX	819	2,470	2,010	2,140	1,590	2,640	1,400	1,510	2,940	1,520	2,640	2,550
MIN	494	703	1,220	886	765	1,250	829	807	939	671	541	668
CFSM	0.47	1.01	1.11	0.93	0.79	1.28	0.76	0.81	1.35	0.66	0.73	0.85
IN.	0.54	1.12	1.28	1.07	0.85	1.48	0.84	0.93	1.51	0.76	0.84	0.95

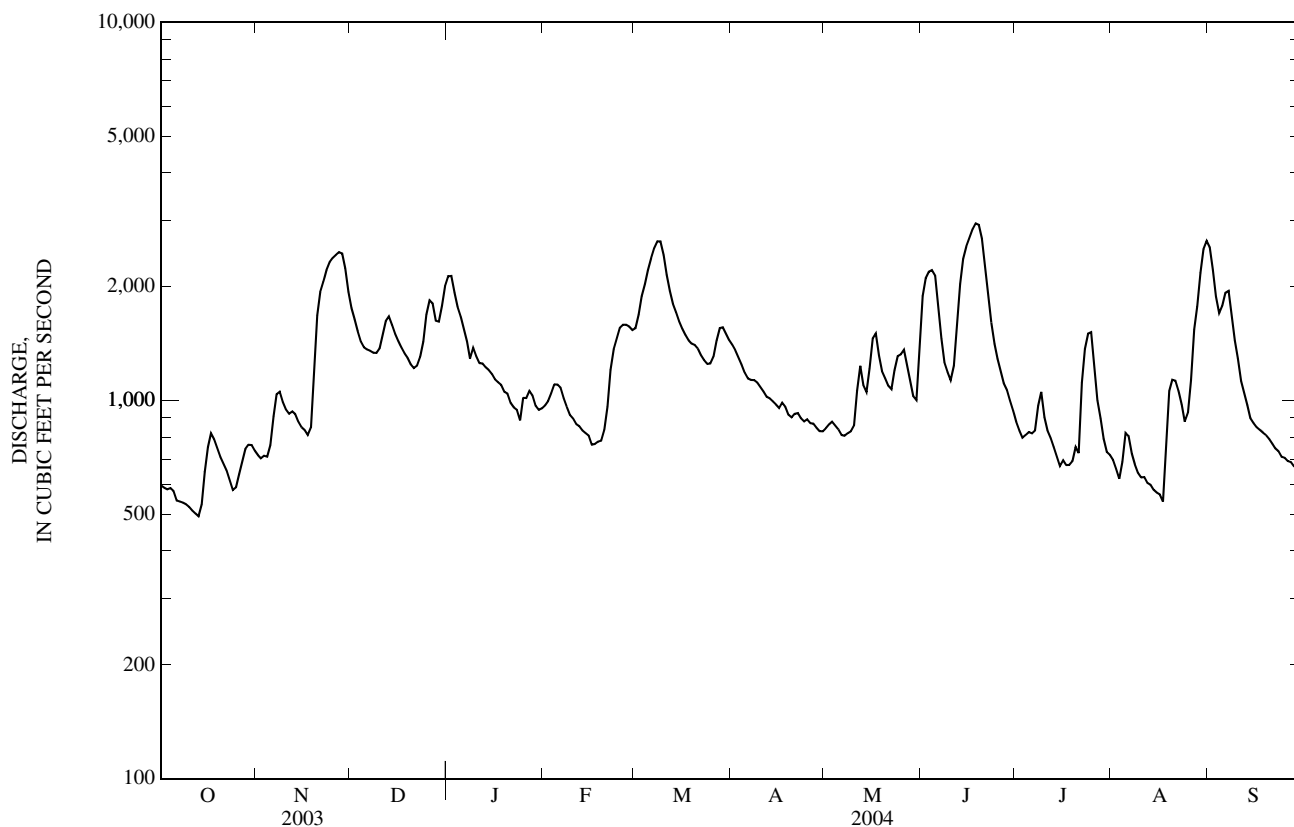
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	929	1,130	1,349	1,452	1,581	2,045	2,159	1,758	1,464	1,099	838	732
MAX	3,378	2,562	2,816	3,845	2,874	4,229	4,376	3,231	3,360	2,622	2,316	1,924
(WY)	(1955)	(1973)	(1983)	(1991)	(1968)	(1985)	(1950)	(1983)	(1996)	(1996)	(1990)	(1993)
MIN	350	398	447	449	391	719	962	767	657	419	371	360
(WY)	(1964)	(1965)	(1964)	(1963)	(1963)	(1957)	(2003)	(1958)	(1988)	(1988)	(1964)	(1964)

05517500 KANKAKEE RIVER AT DUNNS BRIDGE, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	361,802		442,985		1,377	
ANNUAL MEAN	991		1,210		2,161	
HIGHEST ANNUAL MEAN					1991	
LOWEST ANNUAL MEAN					618	
HIGHEST DAILY MEAN	2,940	May 14	2,940	Jun 18	5,850	Mar 23, 1982
LOWEST DAILY MEAN	375	Aug 26	494	Oct 13	280	Jan 25, 1963
ANNUAL SEVEN-DAY MINIMUM	405	Aug 22	519	Oct 8	283	Jan 24, 1963
MAXIMUM PEAK FLOW			2,960		5,870	
MAXIMUM PEAK STAGE			9.20		13.38	
ANNUAL RUNOFF (CFSM)	0.733		0.895		1.02	
ANNUAL RUNOFF (INCHES)	9.95		12.19		13.83	
10 PERCENT EXCEEDS	1,740		2,020		2,630	
50 PERCENT EXCEEDS	812		1,060		1,140	
90 PERCENT EXCEEDS	541		676		533	

e Estimated





## 05517530 KANKAKEE RIVER NEAR KOUTS, IN

LOCATION.--Lat 41°15'14", long 87°02'02", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.6, T.32 N., R.5 W., Jasper County, Hydrologic Unit 07120001, (KOUTS, IN quadrangle), on left bank, 20 ft downstream from bridge on State Highway 49, 0.7 mi upstream from Cook Ditch, 4.5 mi south of Kouts, and at mile 86.7.

DRAINAGE AREA.--1,376 mi<sup>2</sup>, of which 194 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR IN-77-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 645.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	582	695	1,700	2,040	e1,050	1,520	1,410	851	1,800	880	708	2,570
2	575	656	1,580	2,070	e1,080	1,640	1,370	867	2,020	838	674	2,240
3	584	683	1,470	1,930	e1,130	1,830	1,280	874	2,130	776	636	1,890
4	588	679	1,380	1,780	e1,180	1,980	1,230	858	2,140	782	683	1,670
5	591	706	1,340	1,690	e1,180	2,200	1,170	831	2,070	802	800	1,670
6	545	857	1,310	1,580	e1,160	2,370	1,140	812	1,760	810	809	1,800
7	551	973	1,310	1,430	e1,100	2,510	1,120	806	1,430	834	713	1,850
8	536	1,000	1,290	1,350	e1,040	2,610	1,110	816	1,220	940	685	1,620
9	509	958	1,290	1,400	e1,000	2,610	1,100	806	1,140	1,040	627	1,360
10	503	929	1,330	1,330	e974	2,440	1,090	831	1,090	902	631	1,210
11	485	909	1,470	1,280	e953	2,180	1,060	1,010	1,190	830	601	1,060
12	472	910	1,590	1,260	e931	1,960	1,040	1,200	1,520	808	597	974
13	441	929	1,640	1,240	e895	1,790	1,030	1,090	2,040	752	587	901
14	516	871	1,580	1,230	e870	1,680	1,010	1,050	2,350	724	570	827
15	639	853	1,480	1,200	e860	1,590	1,010	1,170	2,550	672	597	792
16	738	815	1,440	1,160	e825	1,530	972	1,410	2,670	693	603	807
17	793	810	1,370	1,150	e830	1,470	983	1,460	2,770	690	573	797
18	788	816	1,320	1,140	e840	1,410	965	1,290	2,870	661	719	798
19	709	1,090	1,270	1,110	e850	1,380	915	1,180	2,850	657	1,040	770
20	684	1,590	1,210	1,110	910	1,380	893	1,130	2,650	731	1,140	757
21	651	1,840	1,180	1,070	995	1,330	938	1,080	2,240	712	1,140	757
22	634	1,980	1,190	1,030	1,180	1,290	935	1,040	1,870	1,130	1,080	706
23	625	2,120	1,250	982	1,350	1,260	932	1,130	1,610	1,370	1,000	714
24	576	2,240	1,360	914	1,420	1,230	886	1,250	1,420	1,460	928	667
25	596	2,330	1,600	e1,020	1,520	1,220	891	1,260	1,290	1,510	908	667
26	644	2,360	1,750	e1,040	1,540	1,270	870	1,280	1,180	1,280	1,160	649
27	685	2,400	1,740	e1,130	1,550	1,410	876	1,200	1,090	1,040	1,560	635
28	739	2,390	1,570	e1,100	1,520	1,520	889	1,070	1,040	917	1,840	620
29	765	2,210	1,560	e1,050	1,480	1,570	857	999	966	819	2,240	613
30	751	1,900	1,700	e1,030	---	1,520	848	958	912	754	2,540	612
31	737	---	1,900	e1,030	---	1,450	---	1,350	---	736	2,640	---
TOTAL	19,232	39,499	45,170	39,876	32,213	53,150	30,820	32,959	53,878	27,550	31,029	33,003
MEAN	620	1,317	1,457	1,286	1,111	1,715	1,027	1,063	1,796	889	1,001	1,100
MAX	793	2,400	1,900	2,070	1,550	2,610	1,410	1,460	2,870	1,510	2,640	2,570
MIN	441	656	1,180	914	825	1,220	848	806	912	657	570	612
CFSM	0.45	0.96	1.06	0.93	0.81	1.25	0.75	0.77	1.31	0.65	0.73	0.80
IN.	0.52	1.07	1.22	1.08	0.87	1.44	0.83	0.89	1.46	0.74	0.84	0.89

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

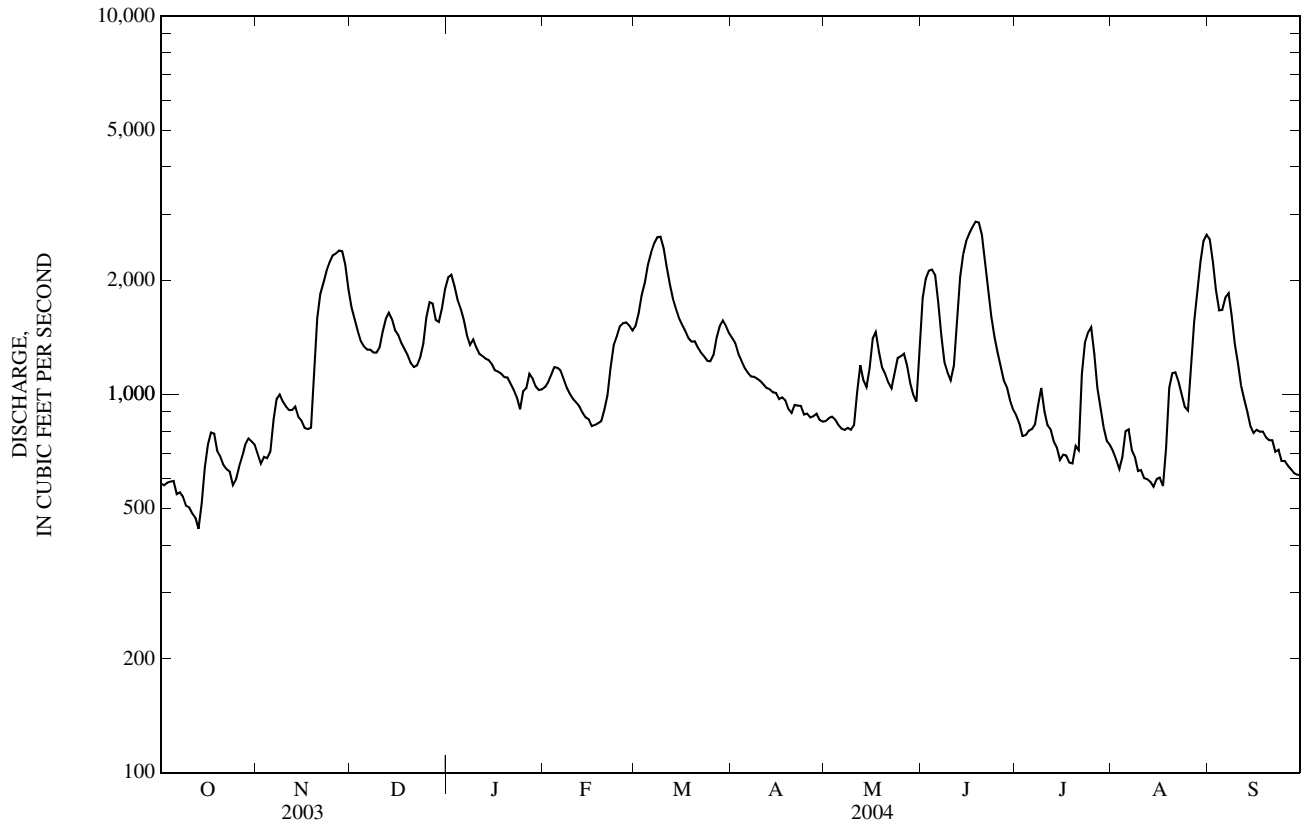
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004		
MEAN	977	1,231	1,509	1,488	1,627	2,246	2,306	1,863	1,688	1,197	924	806																				
MAX	2,770	2,392	2,889	3,787	2,784	4,613	4,229	3,255	3,403	2,642	2,432	2,014																				
(WY)	(1991)	(1991)	(1991)	(1991)	(2001)	(1985)	(1985)	(1983)	(1996)	(1996)	(1990)	(1993)																				
MIN	435	437	568	634	697	792	926	1,063	619	411	398	350																				
(WY)	(2003)	(2000)	(2003)	(1977)	(2003)	(2003)	(2003)	(2004)	(1988)	(1988)	(1988)	(1999)																				

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	357,742		438,379			
ANNUAL MEAN	980		1,198		1,487	
HIGHEST ANNUAL MEAN					2,160	
LOWEST ANNUAL MEAN					818	
HIGHEST DAILY MEAN	2,880	May 14	2,870	Jun 18	6,410	Mar 24, 1982
LOWEST DAILY MEAN	348	Aug 26	441	Oct 13	281	Sep 12, 1999
ANNUAL SEVEN-DAY MINIMUM	382	Aug 22	495	Oct 8	306	Sep 11, 1999
MAXIMUM PEAK FLOW			2,890	Jun 18	6,420	Mar 24, 1982
MAXIMUM PEAK STAGE			9.97	Jun 18	14.52	Mar 24, 1982
ANNUAL RUNOFF (CFSM)	0.712		0.870		1.08	
ANNUAL RUNOFF (INCHES)	9.67		11.85		14.68	
10 PERCENT EXCEEDS	1,710		1,970		2,810	
50 PERCENT EXCEEDS	807		1,080		1,250	
90 PERCENT EXCEEDS	536		654		585	

e Estimated

05517530 KANKAKEE RIVER NEAR KOUTS, IN—Continued



## 05518000 KANKAKEE RIVER AT SHELBY, IN

LOCATION.--Lat 41°10'58", long 87°20'25", in SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.33, T.32 N., R.8 W., Lake County, Hydrologic Unit 07120001, (SHELBY, IN quadrangle), on right bank at upstream side of Highway 55 bridge, 1.0 mi south of Shelby, 7.8 mi upstream from Beaver Lake Ditch, and at mile 68.0.

DRAINAGE AREA.--1,779 mi<sup>2</sup>, of which 201 mi<sup>2</sup> does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1005: 1928(M). WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 628.13 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 19, 1934, nonrecording gage, Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft downstream, Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft downstream, and Sept. 21, 1966 to July 21, 1998, water-stage recorder on right bank 25 ft upstream from Monon railroad bridge and approximately 400 ft downstream, all at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	731	931	2,480	2,410	e1,370	1,880	2,030	1,130	2,240	1,060	863	3,520
2	719	861	2,280	2,520	e1,390	1,990	1,960	1,130	2,490	1,010	816	3,330
3	713	902	2,110	2,520	e1,450	2,140	1,860	1,140	2,600	937	763	3,010
4	731	904	1,950	2,410	e1,500	2,310	1,740	1,140	2,650	937	824	2,730
5	726	946	1,890	2,300	e1,500	2,690	1,680	1,120	2,650	969	946	2,500
6	709	1,040	1,860	2,160	e1,470	3,070	1,620	1,090	2,500	964	999	2,470
7	679	1,190	1,830	1,990	e1,440	3,120	1,580	1,090	2,150	999	929	2,490
8	694	1,250	1,840	1,900	e1,390	3,180	1,530	1,080	1,820	1,010	847	2,420
9	658	1,230	1,830	1,940	e1,350	3,210	1,510	1,060	1,590	1,140	793	2,150
10	641	1,200	1,880	1,920	e1,310	3,170	1,470	1,060	1,450	1,110	742	1,900
11	638	1,190	2,030	1,830	e1,290	3,010	1,450	1,130	1,570	995	749	1,690
12	613	1,170	2,120	1,760	e1,270	2,770	1,400	1,370	2,270	958	701	1,520
13	603	1,190	2,200	1,720	e1,260	2,560	1,380	1,410	3,050	895	707	1,390
14	653	1,150	2,200	1,680	e1,240	2,390	1,370	1,370	3,150	839	699	1,290
15	788	1,120	2,100	1,660	e1,220	2,260	1,340	1,480	3,320	782	688	1,220
16	864	1,090	2,020	1,600	e1,210	2,140	1,310	1,660	3,400	750	691	1,230
17	941	1,060	1,940	1,570	e1,200	2,050	1,270	1,790	3,460	850	683	1,190
18	966	1,100	1,870	1,550	e1,190	1,980	1,270	1,730	3,500	829	822	1,170
19	956	1,370	1,830	1,500	e1,190	1,910	1,240	1,580	3,540	746	1,260	1,160
20	888	1,800	1,780	1,490	e1,270	1,860	1,200	1,500	3,470	758	1,660	1,110
21	846	2,130	1,730	1,510	1,390	1,820	1,230	1,420	3,250	788	1,660	1,100
22	832	2,300	1,710	1,490	1,490	1,770	1,240	1,370	2,900	1,330	1,580	1,070
23	819	2,450	1,730	e1,460	1,690	1,710	1,220	1,360	2,510	1,790	1,450	1,020
24	785	2,660	1,780	e1,290	1,790	1,670	1,210	1,490	2,170	1,800	1,320	993
25	790	2,830	1,930	e1,420	1,860	1,650	1,210	1,540	1,890	1,830	1,270	956
26	848	2,890	2,110	e1,430	1,910	1,710	1,190	1,570	1,690	1,720	1,900	952
27	908	2,920	2,200	e1,460	1,920	1,850	1,160	1,550	1,520	1,390	2,570	938
28	941	2,950	2,150	e1,430	1,920	1,960	1,160	1,430	1,410	1,160	2,740	905
29	994	2,910	2,080	e1,390	1,890	2,040	1,150	1,290	1,270	1,040	3,180	871
30	985	2,720	2,110	e1,360	---	2,040	1,120	1,240	1,160	950	3,470	880
31	968	---	2,260	e1,350	---	2,070	---	1,690	---	903	3,550	---
TOTAL	24,627	49,454	61,830	54,020	42,370	69,980	42,100	42,010	72,640	33,239	41,872	49,175
MEAN	794	1,648	1,995	1,743	1,461	2,257	1,403	1,355	2,421	1,072	1,351	1,639
MAX	994	2,950	2,480	2,520	1,920	3,210	2,030	1,790	3,540	1,830	3,550	3,520
MIN	603	861	1,710	1,290	1,190	1,650	1,120	1,060	1,160	746	683	871
CFSM	0.45	0.93	1.12	0.98	0.82	1.27	0.79	0.76	1.36	0.60	0.76	0.92
IN.	0.51	1.03	1.29	1.13	0.89	1.46	0.88	0.88	1.52	0.70	0.88	1.03

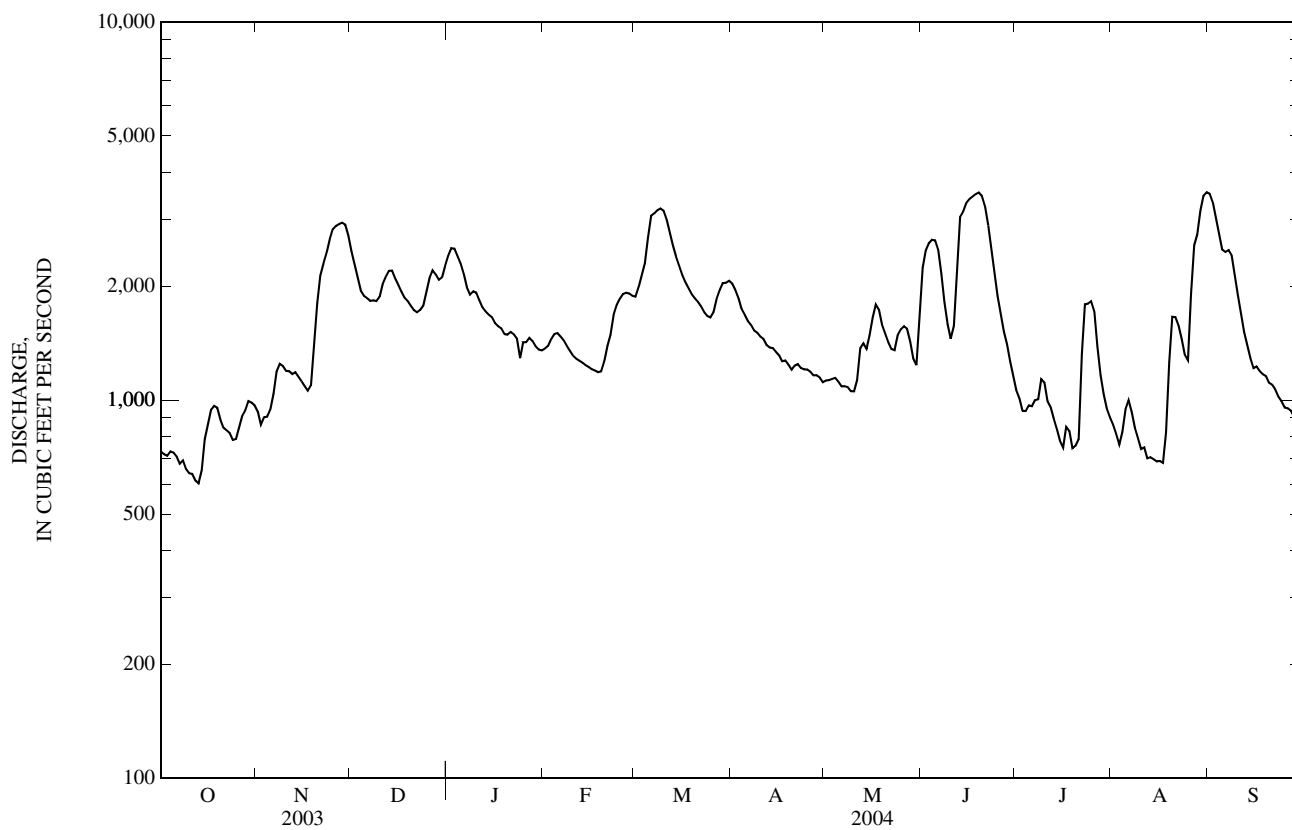
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2004, BY WATER YEAR (WY)

MEAN	1,073	1,336	1,616	1,803	1,969	2,533	2,734	2,303	1,832	1,294	974	876
MAX	3,529	3,413	4,502	4,867	3,658	5,570	5,365	4,409	4,347	3,228	3,058	2,843
(WY)	(1991)	(1973)	(1928)	(1991)	(1950)	(1985)	(1982)	(1943)	(1981)	(1996)	(1990)	(1993)
MIN	455	500	540	460	462	848	1,226	789	569	441	402	356
(WY)	(1954)	(2000)	(1964)	(1940)	(1963)	(1934)	(1925)	(1934)	(1934)	(1988)	(1988)	(1941)

## 05518000 KANKAKEE RIVER AT SHELBY, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1924 - 2004	
ANNUAL TOTAL	495,086		583,317		1,693	
ANNUAL MEAN	1,356		1,594		775	
HIGHEST ANNUAL MEAN					2,767	1993
LOWEST ANNUAL MEAN					775	1964
HIGHEST DAILY MEAN	4,390	Jul 22	3,550	Aug 31	7,650	Mar 26, 1982
LOWEST DAILY MEAN	404	Aug 27	603	Oct 13	260	Jan 13, 1954
ANNUAL SEVEN-DAY MINIMUM	445	Aug 23	643	Oct 8	298	Aug 2, 1988
MAXIMUM PEAK FLOW			3,570	Jun 19	7,650	Mar 26, 1982
MAXIMUM PEAK STAGE			9.53	Jun 19	12.98	Mar 24, 1982
ANNUAL RUNOFF (CFSM)	0.762		0.896		0.952	
ANNUAL RUNOFF (INCHES)	10.35		12.20		12.93	
10 PERCENT EXCEEDS	2,460		2,580		3,340	
50 PERCENT EXCEEDS	1,050		1,450		1,350	
90 PERCENT EXCEEDS	693		828		630	

e Estimated



## 05522500 IROQUOIS RIVER AT RENSSELAER, IN

LOCATION.--Lat 40°56'00", long 87°07'44", in NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub> sec.29, T.29 N., R.6 W., Jasper County, Hydrologic Unit 07120002, (RENSSELAER, IN quadrangle), on right bank 20 ft downstream from bridge on State Highway 114, 0.8 mi east of Rensselaer, 1.5 mi downstream from Ryan Ditch, 5.5 mi upstream from Slough Creek, and at mile 84.9.

DRAINAGE AREA.--203 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1948 to current year.

REVISED RECORDS.--WSP 2115: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources). Prior to July 8, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Streamflow affected by irrigation.

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	55	110	200	547	e63	164	579	84	1,230	58	27	917
2	53	104	165	446	e61	315	489	94	1,200	54	23	701
3	52	103	150	e382	e59	293	388	96	1,020	51	23	779
4	52	102	144	e326	e56	266	312	86	753	e58	131	958
5	49	210	154	e294	e54	594	250	84	513	e54	188	861
6	53	290	164	e257	e55	727	219	77	338	e52	96	701
7	55	218	173	e233	e56	617	202	86	230	e48	59	537
8	51	165	207	e216	e54	476	188	119	181	e46	45	399
9	52	135	278	e194	e56	370	168	104	e160	51	39	305
10	46	124	365	e178	e57	304	153	93	e142	55	44	236
11	45	129	465	e162	e58	262	145	e116	e390	53	56	194
12	47	129	414	e151	e57	212	135	122	e642	50	51	169
13	44	114	312	e142	e56	190	134	115	e729	44	39	154
14	57	93	236	e135	e55	178	122	117	632	41	35	137
15	125	90	194	e129	e56	173	118	136	513	37	33	126
16	120	89	175	e121	e58	166	111	135	392	42	30	129
17	95	87	159	e118	e62	162	109	121	e310	193	28	123
18	86	170	138	e112	e65	160	102	115	270	128	41	111
19	83	624	131	e109	95	151	99	114	217	75	301	101
20	91	662	112	e103	159	149	98	112	179	56	563	95
21	94	528	96	e98	205	141	110	107	e161	48	606	89
22	80	387	119	e95	140	126	101	99	e133	48	509	83
23	66	288	292	e91	135	120	92	94	e118	46	364	78
24	59	544	464	e86	135	125	89	93	e102	42	221	76
25	109	592	411	e82	124	155	104	85	e95	37	216	73
26	308	492	318	e78	115	351	100	83	e88	34	808	71
27	275	397	238	e75	112	536	87	76	e81	34	1,030	71
28	197	341	225	e73	110	498	79	71	e73	32	1,040	67
29	163	284	618	e70	113	431	75	66	e67	30	1,180	67
30	135	235	800	e67	---	e404	74	108	64	29	1,230	63
31	123	---	690	e65	---	545	---	944	---	29	1,120	---
TOTAL	2,920	7,836	8,607	5,235	2,481	9,361	5,032	3,952	11,023	1,655	10,176	8,471
MEAN	94.2	261	278	169	85.6	302	168	127	367	53.4	328	282
MAX	308	662	800	547	205	727	579	944	1,230	193	1,230	958
MIN	44	87	96	65	54	120	74	66	64	29	23	63
CFSM	0.46	1.29	1.37	0.83	0.42	1.49	0.83	0.63	1.81	0.26	1.62	1.39
IN.	0.54	1.44	1.58	0.96	0.45	1.72	0.92	0.72	2.02	0.30	1.86	1.55

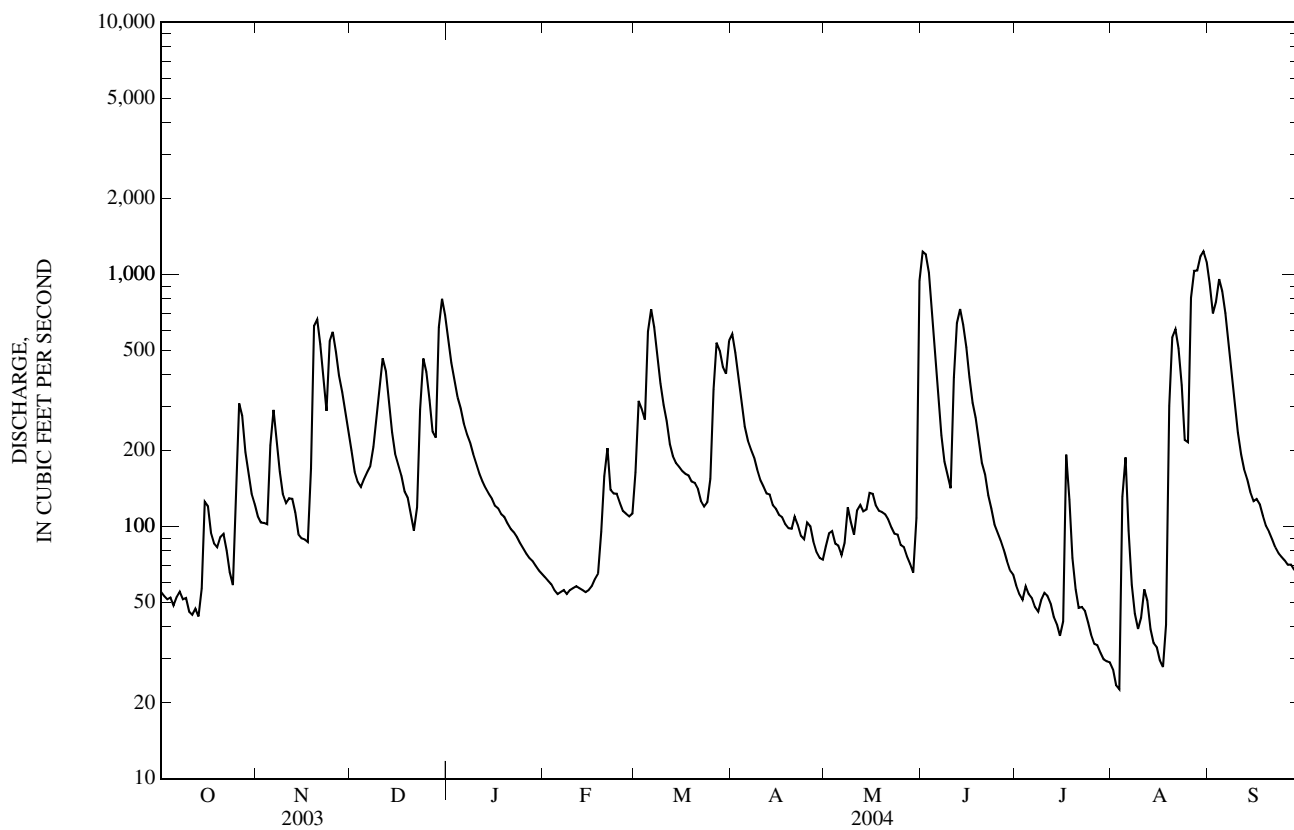
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	92.4	121	177	200	250	328	334	248	213	128	60.1	68.2
MAX	921	561	559	774	660	935	886	766	863	1,418	328	641
(WY)	(1994)	(1993)	(1991)	(1950)	(1997)	(1982)	(1950)	(1974)	(1958)	(2003)	(2004)	(1993)
MIN	5.77	7.75	7.04	14.5	13.9	40.8	87.8	47.6	22.9	12.5	4.61	5.26
(WY)	(1965)	(1965)	(1964)	(1963)	(1964)	(1957)	(1986)	(1958)	(1988)	(1964)	(1964)	(1964)

05522500 IROQUOIS RIVER AT RENSSELAER, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	90,110		76,749			
ANNUAL MEAN	247		210		184	
HIGHEST ANNUAL MEAN					415	1993
LOWEST ANNUAL MEAN					29.7	1964
HIGHEST DAILY MEAN	2,610	Jul 10	1,230	Jun 1	2,610	Jul 10, 2003
LOWEST DAILY MEAN	26	Jan 28	23	Aug 2	2.2	Sep 9, 1964
ANNUAL SEVEN-DAY MINIMUM	27	Jan 24	28	Jul 28	2.8	Sep 9, 1964
MAXIMUM PEAK FLOW			1,250	Jun 1	2,620	Jul 10, 2003
MAXIMUM PEAK STAGE			11.37	Jun 1	16.59	Jul 10, 2003
ANNUAL RUNOFF (CF5M)	1.22		1.03		0.909	
ANNUAL RUNOFF (INCHES)	16.51		14.06		12.35	
10 PERCENT EXCEEDS	555		536		460	
50 PERCENT EXCEEDS	93		120		92	
90 PERCENT EXCEEDS	37		51		17	

e Estimated



## 05524500 IROQUOIS RIVER NEAR FORESMAN, IN

LOCATION.--Lat 40°52'14", long 87°18'24", in NE¼SE¼ sec.15, T.28 N., R.8 W., Newton County, Hydrologic Unit 07120002, (GOODLAND, IN quadrangle), on right bank at downstream side of bridge on State Highway 55, 0.2 mi north of intersection of State Highways 16 and 55, 0.5 mi downstream from Mosquito Creek, 0.6 mi west of Foresman, 3 mi east of Brook, and at mile 72.7.

DRAINAGE AREA.--449 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1948 to current year.

REVISED RECORDS.--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

GAGE.--Water-stage recorder and Acoustic Doppler Velocity meter. Datum of gage is 624.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 7, 1955 nonrecording gage 2.5 mi upstream at datum 3.54 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	173	240	549	1,260	e147	296	966	173	1,820	146	63	1,850
2	156	226	458	1,110	e142	548	917	187	1,970	135	57	1,570
3	148	223	410	e858	e138	563	788	193	1,830	128	51	1,400
4	150	223	387	e777	e127	522	630	186	1,580	146	188	1,600
5	141	348	393	e696	e124	912	495	179	1,300	151	325	1,580
6	134	511	421	e594	e129	1,210	429	171	1,010	134	227	1,420
7	137	450	444	e534	e128	1,220	389	192	693	134	148	1,220
8	130	364	493	e488	e127	1,110	365	287	465	128	112	985
9	126	301	607	e441	e131	941	330	271	353	117	95	717
10	118	272	706	e398	e133	698	297	237	298	123	91	491
11	115	272	881	e367	e135	557	281	301	654	129	98	360
12	112	273	893	e343	e133	459	264	370	1,440	126	102	298
13	110	253	796	e324	e133	383	255	323	3,060	114	87	268
14	131	221	654	e308	e134	357	242	309	3,290	105	78	240
15	290	209	535	e297	e134	344	230	352	2,770	98	72	228
16	302	208	478	e286	e136	326	222	349	2,210	93	66	224
17	252	201	435	e275	e144	328	218	310	1,720	191	62	219
18	218	286	388	e262	e146	322	211	288	1,340	236	59	207
19	201	939	356	e249	182	310	202	329	1,040	165	180	192
20	193	1,160	320	e239	304	301	200	352	762	127	435	180
21	195	1,220	284	e229	435	292	220	305	513	107	527	171
22	184	1,080	301	e218	321	264	213	274	401	106	511	161
23	161	917	584	e206	271	250	193	257	319	107	421	155
24	148	991	961	e198	272	256	183	248	268	97	292	150
25	200	1,150	987	e190	255	328	197	221	239	85	253	148
26	443	1,120	888	e180	239	654	205	212	221	79	757	141
27	462	1,020	740	e175	233	970	185	196	200	77	1,060	139
28	384	914	629	e169	230	1,010	169	183	182	73	1,310	135
29	338	788	912	e163	236	981	161	163	171	68	1,590	132
30	290	653	1,280	e156	---	909	158	165	158	66	2,020	129
31	261	---	1,360	e152	---	921	---	1,110	---	66	2,040	---
TOTAL	6,403	17,033	19,530	12,142	5,399	18,542	9,815	8,693	32,277	3,657	13,377	16,710
MEAN	207	568	630	392	186	598	327	280	1,076	118	432	557
MAX	462	1,220	1,360	1,260	435	1,220	966	1,110	3,290	236	2,040	1,850
MIN	110	201	284	152	124	250	158	163	158	66	51	129
CFSM	0.46	1.26	1.40	0.87	0.41	1.33	0.73	0.62	2.40	0.26	0.96	1.24
IN.	0.53	1.41	1.62	1.01	0.45	1.54	0.81	0.72	2.67	0.30	1.11	1.38

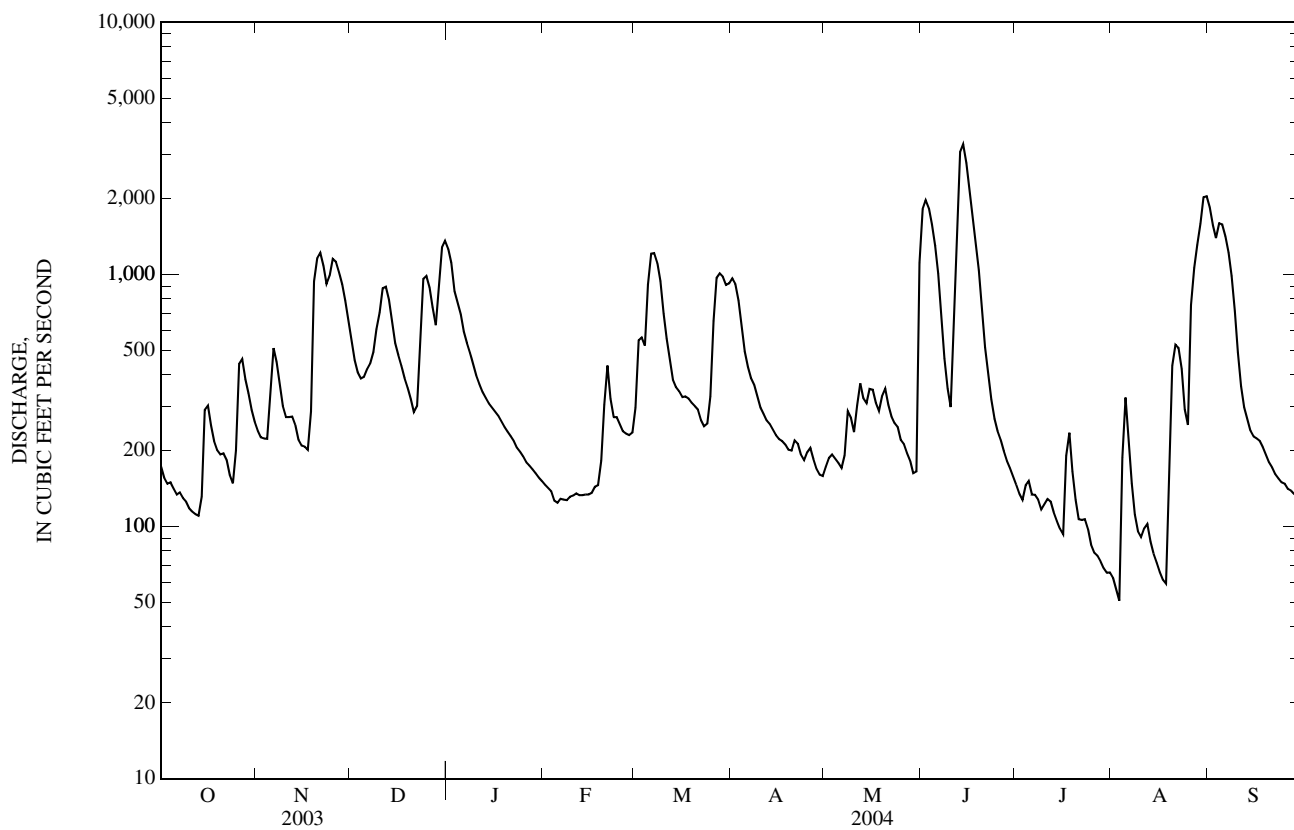
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	189	255	391	424	555	727	744	566	495	305	114	143
MAX	1,792	1,218	1,274	1,736	1,490	2,266	1,672	1,440	2,314	2,814	435	1,387
(WY)	(1994)	(1993)	(1968)	(1993)	(1968)	(1982)	(1950)	(2002)	(1958)	(2003)	(1990)	(1993)
MIN	9.70	16.1	15.3	27.0	31.4	81.7	199	108	39.8	17.7	12.2	11.1
(WY)	(1957)	(1965)	(1964)	(1963)	(1964)	(1957)	(1986)	(1958)	(1988)	(1988)	(1988)	(1964)

05524500 IROQUOIS RIVER NEAR FORESMAN, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	187,853		163,578			
ANNUAL MEAN	515		447		408	
HIGHEST ANNUAL MEAN					891	1993
LOWEST ANNUAL MEAN					77.6	1964
HIGHEST DAILY MEAN	5,350	Jul 11	3,290	Jun 14	5,930	Jun 14, 1958
LOWEST DAILY MEAN	45	Jan 28	51	Aug 3	6.3	Sep 10, 1964
ANNUAL SEVEN-DAY MINIMUM	47	Jan 24	63	Jul 28	8.0	Sep 5, 1964
MAXIMUM PEAK FLOW			3,510	Jun 14	5,930	Jun 14, 1958
MAXIMUM PEAK STAGE			19.96	Jun 14	24.87	Jul 11, 2003
ANNUAL RUNOFF (CFSM)	1.15		0.995		0.909	
ANNUAL RUNOFF (INCHES)	15.56		13.55		12.34	
10 PERCENT EXCEEDS	1,100		1,070		1,080	
50 PERCENT EXCEEDS	204		268		195	
90 PERCENT EXCEEDS	58		125		30	

e Estimated





05536179 HART DITCH AT DYER, IN

LOCATION.--Lat 41°30'28", long 87°30'36", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.12, T.35 N., R.10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), on right bank, 50 ft upstream from 213th Street in Dyer, 0.8 mi upstream from Dyer Ditch, 0.8 mi east of Illinois state line, 3.5 mi east of intersection of U.S. Highway 30 and Interstate 394.

DRAINAGE AREA.--37.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 607.38 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Low-flow affected by sewage effluent.

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	4.1	4.3	25	15	7.3	31	69	33	114	6.1	3.5	11
2	3.9	7.8	21	15	7.5	48	50	32	55	6.0	3.4	8.6
3	4.2	7.5	19	15	7.7	42	39	23	40	7.4	3.7	6.9
4	4.1	9.8	18	15	7.7	42	32	18	30	9.6	11	5.9
5	3.9	34	23	16	7.4	380	26	16	23	8.9	8.3	5.3
6	4.0	26	46	13	7.7	264	23	14	19	7.5	5.7	4.4
7	3.6	14	44	12	7.8	126	20	14	16	6.5	4.5	4.0
8	3.8	10	40	11	7.7	81	19	15	13	6.0	4.1	3.7
9	3.8	8.6	35	12	7.7	56	17	16	11	5.7	3.8	3.4
10	3.7	7.6	67	11	7.7	43	16	48	11	5.5	3.7	3.2
11	4.0	7.2	102	11	7.5	35	15	78	15	5.2	3.6	3.1
12	4.0	6.8	54	12	7.4	28	14	45	200	5.1	3.5	2.9
13	4.1	6.3	35	12	7.3	24	13	37	213	5.3	3.5	2.8
14	9.5	6.1	33	12	7.4	23	13	44	101	5.2	3.4	2.6
15	8.0	6.2	27	11	7.4	23	12	60	81	4.9	3.3	3.5
16	6.7	6.1	24	11	7.1	22	12	42	52	4.9	3.4	7.2
17	5.5	6.5	22	11	7.1	21	14	31	41	5.1	3.2	5.5
18	4.9	114	19	11	7.2	22	12	27	30	7.2	3.3	3.8
19	4.6	339	19	9.7	8.0	26	11	23	25	6.1	4.1	3.1
20	4.4	137	15	9.2	16	26	12	21	20	5.2	4.2	2.8
21	4.3	80	16	8.9	83	23	16	18	18	7.6	4.1	2.7
22	4.5	58	15	8.9	62	20	17	20	17	6.5	3.9	2.8
23	4.6	49	16	8.1	74	18	15	23	15	4.5	3.7	2.4
24	3.7	120	16	8.3	71	18	13	20	12	3.9	6.5	2.5
25	6.5	81	13	8.4	45	22	23	22	10	3.6	7.4	2.5
26	7.1	53	14	8.1	37	69	26	24	9.1	3.6	25	2.5
27	6.5	43	13	8.2	31	88	20	19	8.2	3.5	38	2.5
28	5.6	37	13	8.1	28	58	16	15	7.6	3.5	108	2.4
29	5.0	32	15	7.9	24	122	14	13	7.1	3.3	94	2.8
30	4.6	28	17	7.6	---	108	15	30	6.7	3.7	30	2.9
31	4.5	---	17	7.3	---	111	---	264	---	3.6	17	---
TOTAL	151.7	1,345.8	853	334.7	613.6	2,020	614	1,105	1,220.7	170.7	424.8	119.7
MEAN	4.89	44.9	27.5	10.8	21.2	65.2	20.5	35.6	40.7	5.51	13.7	3.99
MAX	9.5	339	102	16	83	380	69	264	213	9.6	108	11
MIN	3.6	4.3	13	7.3	7.1	18	11	13	6.7	3.3	3.2	2.4
CFSM	0.13	1.19	0.73	0.29	0.56	1.73	0.54	0.95	1.08	0.15	0.36	0.11
IN.	0.15	1.33	0.84	0.33	0.61	2.00	0.61	1.09	1.21	0.17	0.42	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	20.9	42.0	33.5	43.3	54.5	63.2	53.5	56.5	51.2	23.9	20.0	13.5
MAX	113	195	106	136	183	169	138	140	182	93.2	74.1	106
(WY)	(1994)	(1991)	(1991)	(1993)	(1997)	(1991)	(1999)	(1996)	(1993)	(2003)	(1998)	(1993)
MIN	2.77	3.55	4.86	3.71	3.94	7.00	16.6	7.48	4.21	4.46	3.87	2.41
(WY)	(1996)	(2000)	(2003)	(2003)	(2003)	(2000)	(2001)	(1992)	(1992)	(1991)	(2002)	(1994)

SUMMARY STATISTICS

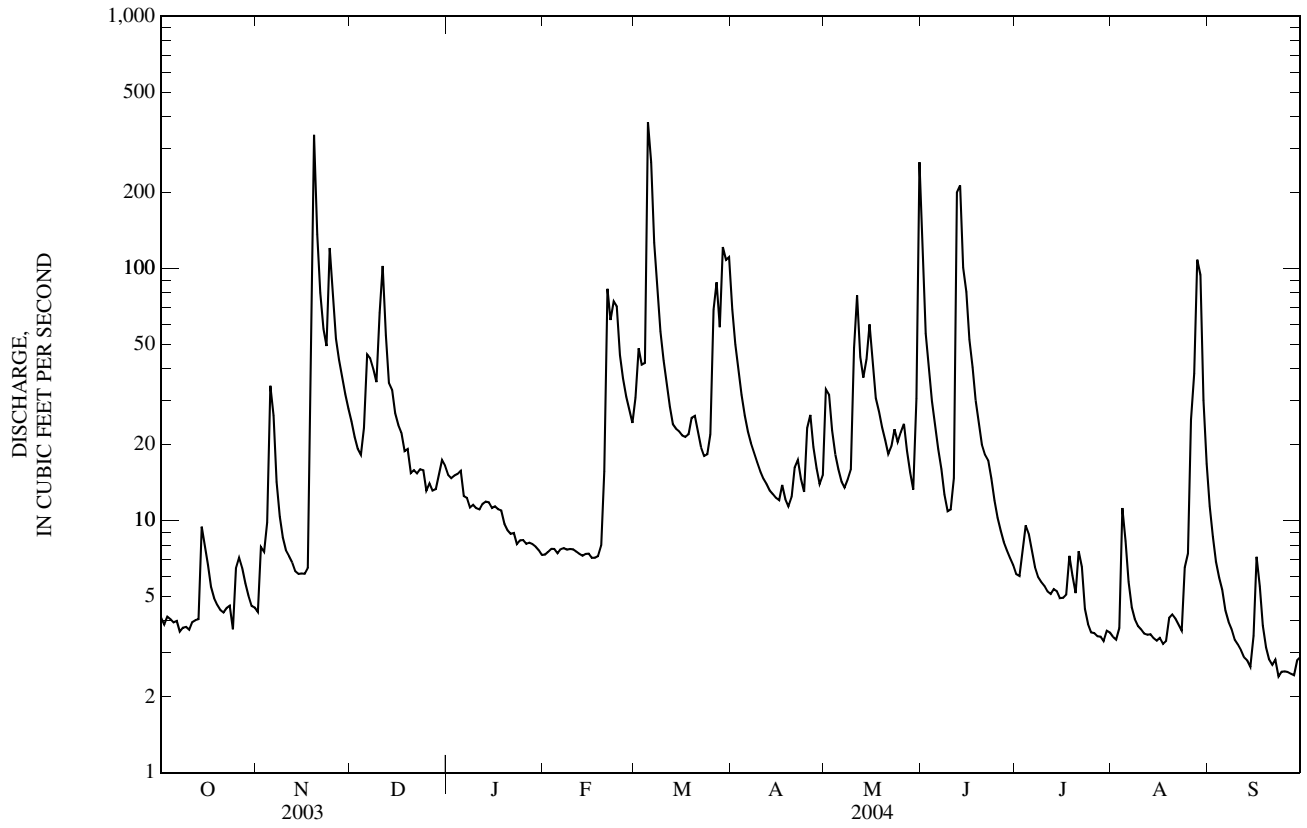
FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1990 - 2004

ANNUAL TOTAL	9,895.4	8,973.7		
ANNUAL MEAN	27.1	24.5		
HIGHEST ANNUAL MEAN				39.6
LOWEST ANNUAL MEAN				76.6
HIGHEST DAILY MEAN	653	Jul 21	380	Mar 5
LOWEST DAILY MEAN	2.8	Jan 24	2.4	Sep 23
ANNUAL SEVEN-DAY MINIMUM	3.0	Jan 23	2.5	Sep 22
MAXIMUM PEAK FLOW			453	Mar 5
MAXIMUM PEAK STAGE			5.62	Mar 5
ANNUAL RUNOFF (CFSM)	0.721		0.652	
ANNUAL RUNOFF (INCHES)	9.79		8.88	
10 PERCENT EXCEEDS	61		54	91
50 PERCENT EXCEEDS	8.6		12	12
90 PERCENT EXCEEDS	3.8		3.7	3.8

05536179 HART DITCH AT DYER, IN—Continued



## DES PLAINES RIVER BASIN

05536190 HART DITCH AT MUNSTER, IN

LOCATION.--Lat 41°33'40", long 87°28'50", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.20, T.36 N., R.9 W., Lake County, Hydrologic Unit 07120003, (HIGHLAND, IN quadrangle), on left bank, 0.2 mi downstream from Ridge Road, 0.4 mi upstream from mouth, and 0.9 mi south of intersection of Interstate 80/90 and U.S. Highway 41.

DRAINAGE AREA.--70.7 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1942 to current year.

REVISED RECORDS.--WDR IN-72-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 591.27 ft above National Geodetic Vertical Datum of 1929 (levels by State of Indiana, Department of Natural Resources).

REMARKS.--Records fair except for daily discharges above 170 ft<sup>3</sup>/s due to possible backwater from Little Calumet River and estimated daily discharges, which are poor.

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	16	18	55	38	e19	106	205	91	432	17	11	51
2	16	124	50	39	e20	106	120	66	180	17	11	41
3	21	57	45	38	e21	89	90	48	110	51	20	37
4	19	60	46	39	e21	209	69	38	75	95	149	29
5	16	283	109	43	e20	1,280	59	34	58	36	33	26
6	16	95	119	34	e20	890	52	31	47	28	19	24
7	14	56	101	33	e20	418	45	32	39	23	14	22
8	13	41	89	31	e20	251	41	29	33	21	13	21
9	13	34	85	30	e21	148	38	36	29	20	12	20
10	13	32	204	30	e21	93	36	131	54	18	10	19
11	13	31	261	30	e20	74	34	204	65	17	11	18
12	15	29	117	34	e20	60	32	101	769	16	11	18
13	15	27	76	34	e20	50	31	219	627	15	12	18
14	171	26	74	35	e20	51	30	217	351	15	11	17
15	45	25	63	33	e20	50	29	181	211	15	12	46
16	31	28	60	32	e19	46	27	114	129	17	11	148
17	24	29	55	32	e19	48	48	84	90	15	13	34
18	21	785	48	32	e20	52	29	130	66	17	14	24
19	23	1,180	48	28	30	53	26	81	54	16	27	21
20	22	530	40	27	86	51	39	64	44	13	18	19
21	20	259	42	25	174	43	59	50	53	139	14	17
22	21	142	42	24	132	39	43	120	44	53	12	16
23	23	173	43	23	161	35	34	132	36	25	11	15
24	22	410	42	24	154	54	32	131	29	16	55	15
25	64	227	37	24	97	56	90	117	25	13	65	16
26	27	122	37	23	81	191	61	76	23	12	97	16
27	24	95	36	e22	70	202	45	55	21	11	134	16
28	22	81	39	e22	62	146	36	42	21	11	477	14
29	20	71	42	e21	57	289	32	34	19	11	324	13
30	18	62	42	e20	---	322	56	297	19	14	112	13
31	17	---	41	e20	---	409	---	879	---	11	70	---
TOTAL	815	5,132	2,188	920	1,465	5,911	1,568	3,864	3,753	798	1,803	804
MEAN	26.3	171	70.6	29.7	50.5	191	52.3	125	125	25.7	58.2	26.8
MAX	171	1,180	261	43	174	1,280	205	879	769	139	477	148
MIN	13	18	36	20	19	35	26	29	19	11	10	13
CFSM	0.37	2.42	1.00	0.42	0.71	2.70	0.74	1.76	1.77	0.36	0.82	0.38
IN.	0.43	2.70	1.15	0.48	0.77	3.11	0.83	2.03	1.97	0.42	0.95	0.42

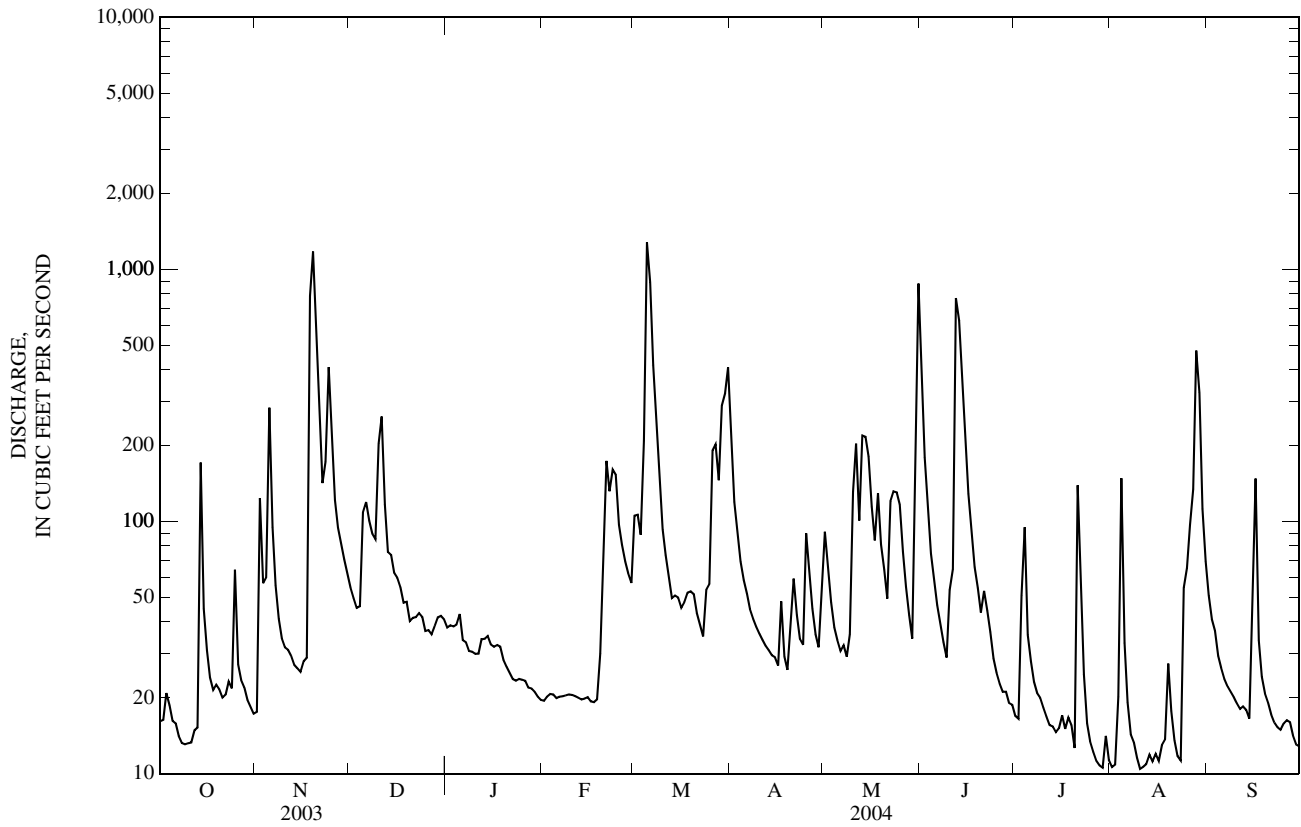
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

MEAN	33.0	52.8	63.9	67.0	88.1	136	131	106	75.1	41.8	31.7	28.1
MAX	282	287	279	335	479	429	430	373	423	346	156	219
(WY)	(1955)	(1986)	(1983)	(1999)	(1997)	(1979)	(1999)	(1996)	(1993)	(2003)	(1998)	(1993)
MIN	3.95	3.54	3.07	3.77	6.32	19.1	19.2	11.9	8.78	6.11	4.73	3.91
(WY)	(1965)	(1972)	(1964)	(1977)	(1963)	(1957)	(1946)	(1958)	(1965)	(1965)	(1964)	(1956)

05536190 HART DITCH AT MUNSTER, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	34,090.1		29,021			
ANNUAL MEAN	93.4		79.3		71.0	
HIGHEST ANNUAL MEAN					160 1993	
LOWEST ANNUAL MEAN					19.2 1964	
HIGHEST DAILY MEAN	2,120	Jul 21	1,280	Mar 5	e 2,600	Nov 28, 1990
LOWEST DAILY MEAN	9.1	Feb 12	10	Aug 10	1.6	Dec 24, 1963
ANNUAL SEVEN-DAY MINIMUM	11	Feb 11	11	Aug 10	1.7	Sep 3, 1964
MAXIMUM PEAK FLOW			1,440	Mar 5	e 3,010	Nov 28, 1990
MAXIMUM PEAK STAGE			4.95	Mar 5	8.72	Nov 28, 1990
ANNUAL RUNOFF (CFSM)	1.32		1.12		1.00	
ANNUAL RUNOFF (INCHES)	17.94		15.27		13.65	
10 PERCENT EXCEEDS	211		172		151	
50 PERCENT EXCEEDS	32		36		24	
90 PERCENT EXCEEDS	14		15		6.2	

e Estimated



## DES PLAINES RIVER BASIN

## 05536195 LITTLE CALUMET RIVER AT MUNSTER, IN

LOCATION.--Lat 41°34'38", long 87°31'17", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.13, T.36 N., R.10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), on left bank 200 ft upstream from Hohman Avenue bridge at north city limits of Munster, 0.4 mi upstream from Indiana-Illinois State line, and 4.6 mi upstream from Thorn Creek.

DRAINAGE AREA.--90.0 mi<sup>2</sup>. During times of floods on Deep River, flow may enter basin from eastern portion of Little Calumet River Basin; or, during times of floods on Hart Ditch, flow may leave the basin and enter eastern portion of the Little Calumet River Basin.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 580.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow from eastern portion of Little Calumet River Basin is diverted to Lake Michigan by Burns Ditch. Periods of high flow frequently are in backwater from downstream storage.

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	14	23	41	28	e14	79	125	73	272	24	8.7	54
2	14	86	37	28	e14	93	93	51	150	24	8.7	42
3	17	51	34	28	e14	73	76	40	104	35	9.8	40
4	18	49	33	29	e14	90	64	32	77	72	108	36
5	14	162	66	e29	e14	355	54	29	63	22	28	32
6	13	77	83	e24	e14	318	48	29	54	18	17	30
7	13	48	74	e23	e14	182	42	29	45	16	12	28
8	12	36	66	e21	e14	130	37	27	39	15	9.7	28
9	12	30	61	e21	e14	104	33	27	34	17	9.6	28
10	12	27	103	e20	e14	84	31	58	41	15	8.1	26
11	13	26	130	e21	e14	73	29	125	78	14	8.0	26
12	15	25	83	e22	e14	60	27	80	291	14	8.1	25
13	16	23	55	e23	e14	51	26	126	290	15	9.9	24
14	111	24	54	e23	e14	46	25	198	180	14	11	19
15	52	24	45	e22	e14	43	24	144	134	14	8.2	21
16	29	26	42	e22	e13	41	23	95	97	16	7.6	120
17	22	27	39	e21	e13	40	40	72	75	16	7.3	33
18	20	279	32	e20	e14	42	26	123	61	15	11	22
19	19	397	35	e19	e19	42	22	74	50	15	19	19
20	19	271	28	e18	46	42	26	62	42	13	13	17
21	19	157	30	e17	105	38	46	51	44	73	11	15
22	18	99	29	e17	99	35	35	85	44	76	9.8	14
23	19	104	31	e16	111	31	29	154	36	25	11	13
24	19	180	31	e16	117	42	25	115	31	17	55	12
25	52	128	27	e16	85	42	64	102	28	13	48	12
26	32	86	27	e16	69	87	46	75	26	13	64	12
27	27	70	26	e16	60	112	37	59	25	11	88	13
28	25	60	27	e15	54	89	29	48	25	9.8	248	12
29	24	52	30	e15	49	145	26	41	24	9.0	201	11
30	23	46	31	e14	---	142	31	135	24	12	116	12
31	22	---	31	e14	---	179	---	322	---	10	73	---
TOTAL	735	2,693	1,461	634	1,064	2,930	1,239	2,681	2,484	672.8	1,247.5	796
MEAN	23.7	89.8	47.1	20.5	36.7	94.5	41.3	86.5	82.8	21.7	40.2	26.5
MAX	111	397	130	29	117	355	125	322	291	76	248	120
MIN	12	23	26	14	13	31	22	27	24	9.0	7.3	11
CFSM	0.26	1.00	0.52	0.23	0.41	1.05	0.46	0.96	0.92	0.24	0.45	0.29
IN.	0.30	1.11	0.60	0.26	0.44	1.21	0.51	1.11	1.03	0.28	0.52	0.33

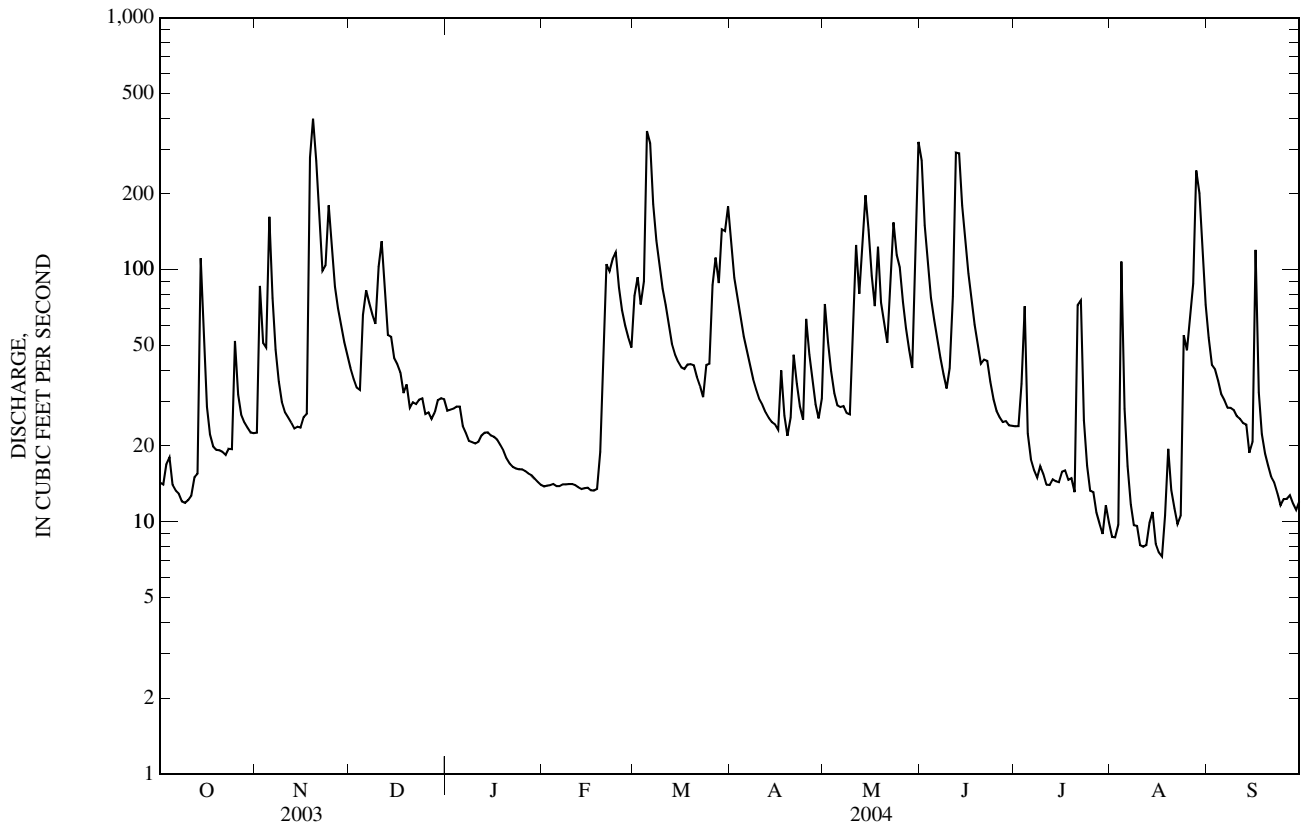
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	34.8	58.3	71.5	61.6	81.6	123	123	94.0	70.9	42.1	37.5	38.8
MAX	151	212	301	199	252	386	268	266	222	185	141	217
(WY)	(1994)	(1973)	(1983)	(1993)	(1959)	(1979)	(1973)	(1959)	(1993)	(1996)	(1990)	(1965)
MIN	6.47	5.29	7.12	7.32	8.49	18.2	21.3	18.1	11.2	9.56	7.28	5.54
(WY)	(1969)	(1972)	(1961)	(1961)	(1963)	(2000)	(1963)	(1992)	(1965)	(1991)	(1964)	(1966)

05536195 LITTLE CALUMET RIVER AT MUNSTER, IN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	17,999.1		18,637.3			
ANNUAL MEAN	49.3		50.9		69.6	
HIGHEST ANNUAL MEAN					121	1973
LOWEST ANNUAL MEAN					23.5	1964
HIGHEST DAILY MEAN	529	Jul 21	397	Nov 19	1,160	Apr 28, 1959
LOWEST DAILY MEAN	6.7	Jun 25	7.3	Aug 17	1.9	Aug 16, 1964
ANNUAL SEVEN-DAY MINIMUM	7.5	Jun 22	8.6	Aug 11	2.2	Sep 2, 1964
MAXIMUM PEAK FLOW			428	Nov 18	1,510	Apr 28, 1959
MAXIMUM PEAK STAGE			11.07	Nov 18	17.03	Nov 28, 1990
ANNUAL RUNOFF (CFSM)	0.548		0.566		0.774	
ANNUAL RUNOFF (INCHES)	7.44		7.70		10.51	
10 PERCENT EXCEEDS	131		113		173	
50 PERCENT EXCEEDS	21		29		31	
90 PERCENT EXCEEDS	10		13		9.0	

e Estimated



05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN

LOCATION.--Lat 41°37'28", long 87°31'04", in NE¼NW¼sec. 36, T37 N., R10 W., Lake County, Hydrologic Unit 07120003, (CALUMET CITY, IL-IN quadrangle), on left bank, 20 feet upstream of Hohman Avenue, 1,000 feet east of Indiana-Illinois State line, 0.57 mi downstream of U.S. Highway 41, and 0.7 mi north of St. Margaret's Hospital (Hohman Avenue).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

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	4.2	0.73	4.3	1.4	e0.92	4.9	9.4	17	49	35	13	6.8
2	2.5	39	3.8	1.5	e0.72	2.8	5.5	8.7	34	33	11	3.8
3	3.8	12	3.8	1.6	e0.61	0.91	5.0	8.4	31	41	14	4.7
4	5.3	13	4.0	1.8	e0.55	7.0	4.8	7.1	28	61	63	2.2
5	1.9	41	16	2.3	e0.54	30	3.9	7.0	28	34	34	1.9
6	1.4	15	12	1.0	e0.57	22	2.6	8.0	25	27	19	1.0
7	1.0	6.8	8.3	0.91	e0.59	9.0	2.5	12	25	26	16	1.4
8	0.77	4.4	5.3	1.2	e0.56	3.1	3.1	9.7	26	23	13	3.4
9	0.84	4.0	5.6	1.0	e0.59	4.5	2.1	9.2	27	25	9.1	5.3
10	1.8	2.6	18	0.82	e0.61	1.7	2.0	9.7	35	28	12	4.1
11	2.7	1.7	14	0.79	e0.61	1.4	2.9	12	53	22	7.2	0.68
12	1.6	5.2	7.1	1.3	e0.60	1.3	2.7	14	104	e21	8.0	1.4
13	0.80	1.8	5.3	0.97	e0.56	1.1	2.8	39	55	e20	15	1.6
14	50	1.1	5.0	0.93	e0.61	2.0	2.6	55	52	e20	10	0.67
15	12	0.89	4.3	1.7	e0.59	0.89	1.5	28	49	e20	9.3	5.3
16	4.2	1.4	4.8	0.83	e0.62	1.2	2.5	22	45	e22	7.8	41
17	2.6	1.6	3.9	0.88	e0.61	1.4	4.6	19	45	e19	9.8	4.7
18	1.5	75	3.4	1.2	e0.69	1.7	1.8	36	46	e22	15	0.92
19	2.0	58	3.3	0.47	e1.0	1.5	1.8	25	45	e20	13	1.6
20	1.8	22	2.7	0.61	e2.5	1.7	3.2	21	42	e17	8.1	0.85
21	1.5	14	2.2	0.83	e3.0	1.8	4.2	22	44	45	7.2	0.39
22	1.5	12	2.4	e0.64	e1.6	1.3	2.5	34	48	52	5.8	1.5
23	1.5	20	2.6	e0.63	e4.8	1.1	2.1	49	44	29	3.5	0.73
24	1.6	24	3.0	e0.63	e2.5	3.4	1.9	33	44	23	29	0.22
25	14	12	2.0	e0.60	e1.7	1.7	13	37	44	18	29	0.19
26	3.8	9.8	1.5	e0.62	1.4	3.3	7.8	30	44	17	15	1.0
27	1.9	10	1.9	e0.69	0.64	4.1	5.4	26	42	15	9.3	0.23
28	1.1	9.6	2.2	e0.60	0.47	6.7	3.7	26	43	14	56	4.7
29	1.1	7.5	1.7	e0.60	0.44	21	3.5	21	41	12	32	4.1
30	1.5	4.8	1.3	e0.69	---	11	8.0	47	38	15	12	1.1
31	1.3	---	1.5	e0.84	---	14	---	77	---	12	6.7	---
TOTAL	133.51	430.92	157.2	30.58	31.20	169.50	119.4	769.8	1,276	788	512.8	107.48
MEAN	4.31	14.4	5.07	0.99	1.08	5.47	3.98	24.8	42.5	25.4	16.5	3.58
MAX	50	75	18	2.3	4.8	30	13	77	104	61	63	41
MIN	0.77	0.73	1.3	0.47	0.44	0.89	1.5	7.0	25	12	3.5	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

MEAN	28.8	28.0	24.0	23.3	27.4	29.6	34.3	38.2	40.9	42.8	34.9	29.8
MAX	80.4	63.7	65.2	66.8	95.9	81.5	90.8	85.9	98.8	102	93.9	88.9
(WY)	(1998)	(1998)	(1998)	(1998)	(1997)	(1998)	(1998)	(1997)	(1993)	(1993)	(1997)	(1997)
MIN	2.37	2.09	2.03	0.99	1.08	5.47	3.98	9.98	4.92	6.06	4.54	1.22
(WY)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2001)	(2003)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

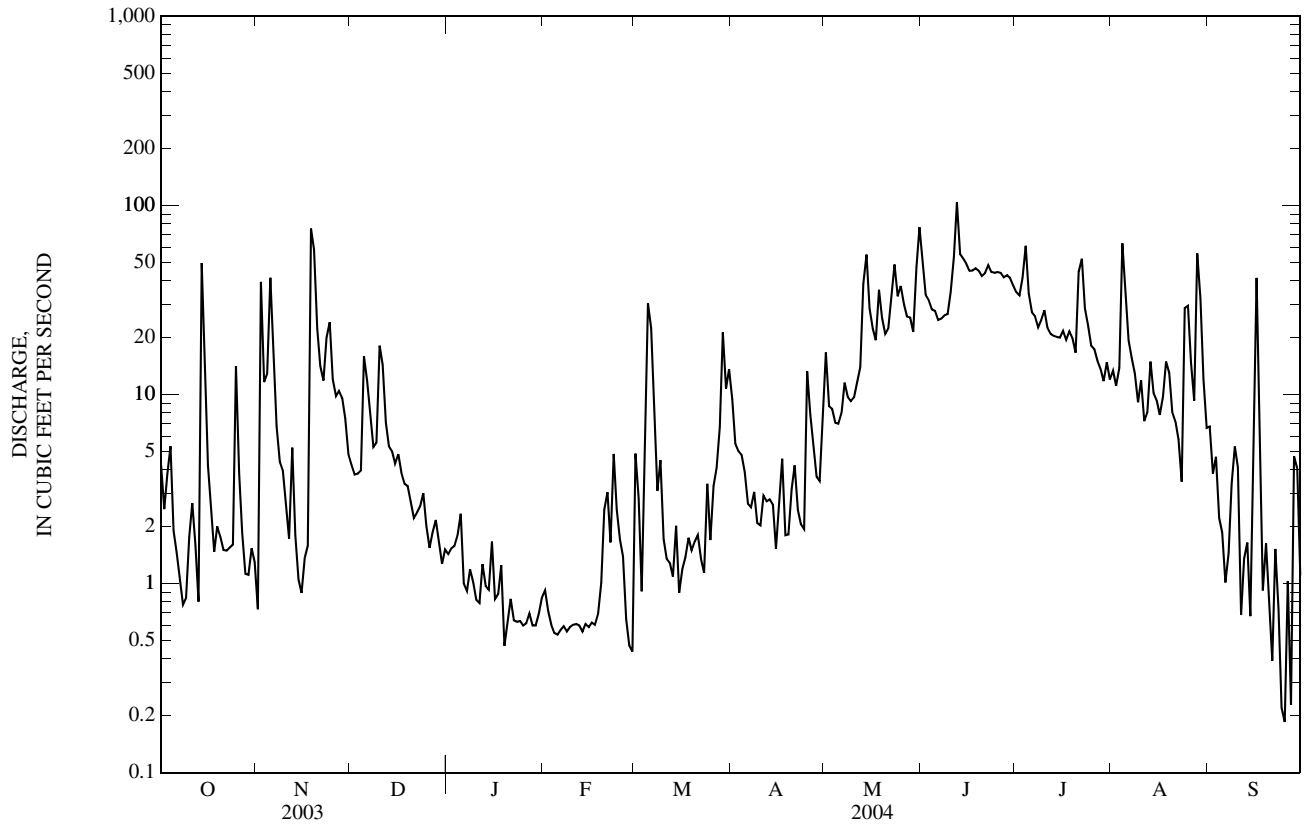
FOR 2004 WATER YEAR

WATER YEARS 1991 - 2004

ANNUAL TOTAL	3,630.80		4,526.39		31.8	
ANNUAL MEAN	9.95		12.4		76.2	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					8.21	
HIGHEST DAILY MEAN	85	Jul 21	104	Jun 12	464	Feb 21, 1997
LOWEST DAILY MEAN	0.57	Mar 22	0.19	Sep 25	0.19	Sep 25, 2004
ANNUAL SEVEN-DAY MINIMUM	0.77	Apr 23	e 0.57	Feb 3	e 0.57	Feb 3, 2004
MAXIMUM PEAK FLOW			149	Jun 12	701	Feb 21, 1997
MAXIMUM PEAK STAGE			6.12	Jun 12	8.76	Jul 18, 1996
10 PERCENT EXCEEDS	26		39		72	
50 PERCENT EXCEEDS	4.8		4.6		23	
90 PERCENT EXCEEDS	1.3		0.71		3.9	

e Estimated

05536357 GRAND CALUMET RIVER AT HOHMAN AVE AT HAMMOND, IN—Continued





**DISCHARGE AT MISCELLANEOUS SITES****Special study and miscellaneous sites****STREAMS TRIBUTARY TO OHIO RIVER BASIN****Great Miami River Basin**

Streamflow was measured at points other than continuous gaging stations at one site in the Great Miami River Basin. This data was collected as a part of an investigation to measure streamflow in the historic Whitewater Canal in support of the Indiana Department of Natural Resources.

<b>Stream</b>	<b>Tributary to</b>	<b>Location</b>	<b>Measurement date</b>	<b>Discharge (ft<sup>3</sup>/s)</b>
Whitewater Canal	Whitewater River	Lat 39°26'50"N, long 85°08'11W NAD27 at footbridge over Whitewater Canal mill-bypass in Metamora, IN.	05-11-04	14.7