

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER AT BAILEYSVILLE, WV

LOCATION.--Lat 37°36'14", long 81°38'43", NAD 27, Wyoming County, Hydrologic Unit 05070101, on right bank 75 ft upstream from Doublecamp Branch, 3.1 mi east of Baileysville, and at mile 130.8.

DRAINAGE AREA.--306 mi².

PERIOD OF RECORD.--July 1968 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,140.00 ft above NGVD 29. Prior to Sept. 10, 1969, at site 25 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 1	1830	*2,850	*6.92	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	352	1,850	272	782	749	826	1,520	150	260	477	153
2	217	320	1,860	270	733	667	1,280	1,210	155	459	282	135
3	237	293	1,090	256	813	590	1,840	873	172	228	191	117
4	217	381	774	272	878	553	1,860	675	175	146	155	106
5	193	659	606	724	814	668	1,410	552	155	143	135	97
6	177	555	585	900	711	1,280	1,050	487	141	167	141	93
7	165	460	771	739	632	1,340	853	440	135	222	142	88
8	152	383	905	756	624	1,820	737	398	133	1,130	131	85
9	143	321	1,020	864	637	1,810	660	358	127	495	144	84
10	141	286	2,540	782	706	1,300	559	331	134	274	138	81
11	137	264	1,860	644	651	1,050	505	316	133	198	118	77
12	139	337	1,370	637	587	962	471	292	121	165	106	74
13	159	467	1,100	569	551	1,080	475	277	116	143	97	73
14	408	430	866	1,260	668	1,170	424	286	115	138	92	73
15	312	387	702	1,510	904	1,060	376	297	138	144	89	72
16	238	355	595	1,090	912	941	342	278	123	179	90	67
17	205	324	538	831	857	838	321	242	107	205	104	71
18	181	312	489	646	746	728	310	229	100	751	132	67
19	548	322	456	560	643	646	299	215	99	840	1,320	64
20	750	339	388	529	567	603	289	265	99	475	693	62
21	655	355	357	497	767	571	281	291	100	332	347	60
22	727	360	358	442	1,610	534	289	241	96	258	230	60
23	492	358	359	445	1,320	600	358	224	94	221	175	60
24	500	449	376	338	1,000	1,000	409	221	88	183	146	60
25	554	1,140	333	406	816	1,020	462	215	86	158	128	61
26	478	1,010	320	371	665	860	460	205	85	142	123	63
27	465	721	305	370	576	724	464	190	86	137	259	69
28	495	584	270	341	598	749	423	175	86	150	400	67
29	477	467	283	369	---	1,220	406	167	92	187	250	64
30	452	418	276	624	---	1,260	865	164	117	229	189	62
31	400	---	270	813	---	1,020	---	158	---	233	164	---
TOTAL	10,670	13,409	23,872	19,127	21,768	29,413	19,304	11,792	3,558	8,992	7,188	2,365
MEAN	344	447	770	617	777	949	643	380	119	290	232	78.8
MAX	750	1,140	2,540	1,510	1,610	1,820	1,860	1,520	175	1,130	1,320	153
MIN	137	264	270	256	551	534	281	158	85	137	89	60
CFSM	1.12	1.46	2.52	2.02	2.54	3.10	2.10	1.24	0.39	0.95	0.76	0.26
IN.	1.30	1.63	2.90	2.33	2.65	3.58	2.35	1.43	0.43	1.09	0.87	0.29

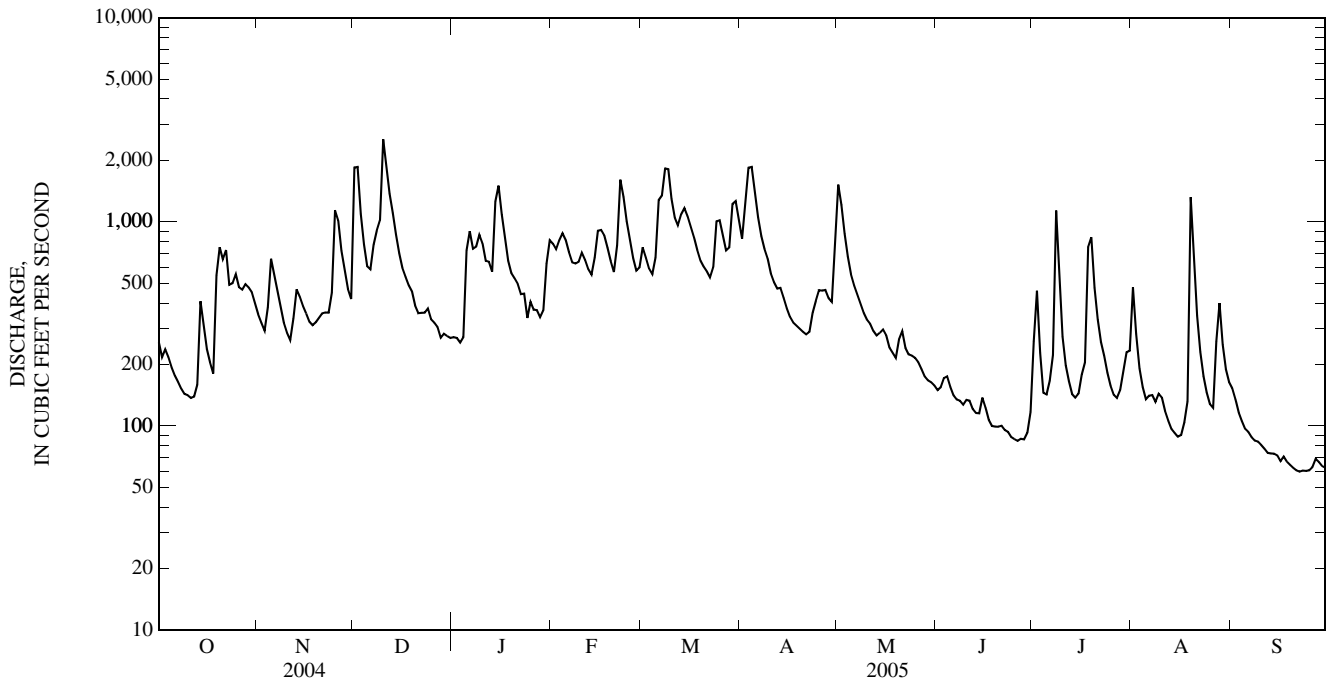
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

MEAN	144	250	408	593	765	792	733	624	329	228	172	113
MAX	680	1,143	1,294	1,894	1,824	1,969	2,003	1,395	1,262	1,452	649	367
(WY)	(1990)	(2004)	(1973)	(1974)	(2003)	(1975)	(1987)	(2001)	(1981)	(2001)	(1972)	(2003)
MIN	35.6	33.8	62.4	127	173	193	211	198	88.6	65.2	49.8	47.1
(WY)	(1979)	(1979)	(1998)	(2000)	(2002)	(1988)	(1986)	(1976)	(1999)	(1999)	(1970)	(1998)

03202400 GUYANDOTTE RIVER AT BAILEYSVILLE, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	212,607		171,458			
ANNUAL MEAN	581		470		428	
HIGHEST ANNUAL MEAN					692	
LOWEST ANNUAL MEAN					174	
HIGHEST DAILY MEAN	5,770	May 31	2,540	Dec 10	17,900	Apr 5, 1977
LOWEST DAILY MEAN	102	Sep 7	60	(a)	23	Nov 11, 1978
ANNUAL SEVEN-DAY MINIMUM	110	Sep 1	61	Sep 20	27	Oct 17, 1978
MAXIMUM PEAK FLOW			2,850	Dec 1	(b)46,400	Jul 8, 2001
MAXIMUM PEAK STAGE			6.92	Dec 1	(c)31.25	Jul 8, 2001
INSTANTANEOUS LOW FLOW			58	Sep 22	21	Oct 14, 1970
ANNUAL RUNOFF (CFSM)	1.90		1.54		1.40	
ANNUAL RUNOFF (INCHES)	25.85		20.84		19.01	
10 PERCENT EXCEEDS	1,090		1,010		926	
50 PERCENT EXCEEDS	418		355		236	
90 PERCENT EXCEEDS	158		97		59	

- a Sept. 21-24.
- b From rating curve extended above 37,000 ft³/s on basis of slope-conveyance measurement.
- c From floodmarks.



GUYANDOTTE RIVER BASIN

03202750 CLEAR FORK AT CLEAR FORK, WV

LOCATION.--Lat 37°37'23", long 81°42'27", NAD 27, Wyoming County, Hydrologic Unit 05070101, on left bank 0.2 mi downstream from Walls Branch, 0.7 mi upstream from Spratt Branch, 1.4 mi southwest of Clear Fork, and at mile 2.6.

DRAINAGE AREA.--126 mi².

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

REVISED RECORDS.--WDR WV-81-1: Drainage area. WDR WV-94-1: 1993.

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is approximately 1,150 ft above NGVD 29, from topographic map. June 28, 1974, to Oct. 22, 1974, nonrecording gage; Oct. 23, 1974, to Oct. 26, 1977, digital recorder at site 0.9 mi upstream at different datum; Oct. 27, 1977, to Dec. 31, 1980, digital recorder at site 0.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	1500	*2,430	*7.41	Apr 30	2400	2,150	6.98

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	150	1,640	107	421	392	284	1,530	45	27	46	88
2	99	130	1,050	113	362	326	749	725	47	46	54	69
3	94	116	541	112	394	263	1,160	431	50	34	35	56
4	78	215	333	129	423	243	968	286	43	28	27	47
5	67	443	239	775	361	383	615	214	39	23	23	39
6	58	315	238	734	283	959	391	178	35	26	26	34
7	51	228	297	516	233	801	281	154	46	56	22	31
8	47	174	344	450	234	988	228	134	51	246	25	28
9	44	136	461	427	228	839	195	115	41	88	35	25
10	42	114	1,090	412	272	555	160	102	39	47	39	23
11	39	102	897	307	264	426	139	95	37	35	31	22
12	38	180	698	236	245	400	131	85	34	29	23	21
13	53	257	528	195	233	536	129	80	31	25	19	20
14	95	221	356	419	421	551	115	101	29	25	17	19
15	90	184	257	476	758	442	99	106	38	33	16	18
16	88	160	205	359	604	341	88	100	37	38	23	18
17	80	138	180	264	443	276	81	86	29	41	91	18
18	69	136	160	205	332	224	78	77	26	173	49	17
19	604	154	149	183	254	193	77	71	24	170	914	16
20	524	200	123	162	207	177	74	120	23	104	319	15
21	411	240	123	154	295	161	72	124	22	106	159	14
22	272	242	114	136	775	146	105	105	21	87	88	13
23	193	218	130	145	620	175	155	93	20	68	61	13
24	242	242	141	118	415	393	279	90	19	55	46	12
25	288	1,150	127	175	299	402	356	82	19	42	37	12
26	238	892	124	137	221	319	360	71	19	35	43	13
27	246	492	116	148	189	247	319	63	18	32	266	21
28	295	336	103	139	218	260	235	59	18	39	328	19
29	273	235	101	159	---	426	220	55	20	39	162	18
30	226	214	98	330	---	483	1,190	51	20	32	107	19
31	182	---	94	468	---	380	---	47	---	28	87	---
TOTAL	5,253	8,014	11,057	8,690	10,004	12,707	9,333	5,630	940	1,857	3,218	778
MEAN	169	267	357	280	357	410	311	182	31.3	59.9	104	25.9
MAX	604	1,150	1,640	775	775	988	1,190	1,530	51	246	914	88
MIN	38	102	94	107	189	146	72	47	18	23	16	12
CFSM	1.34	2.12	2.83	2.22	2.84	3.25	2.47	1.44	0.25	0.48	0.82	0.21
IN.	1.55	2.37	3.26	2.57	2.95	3.75	2.76	1.66	0.28	0.55	0.95	0.23

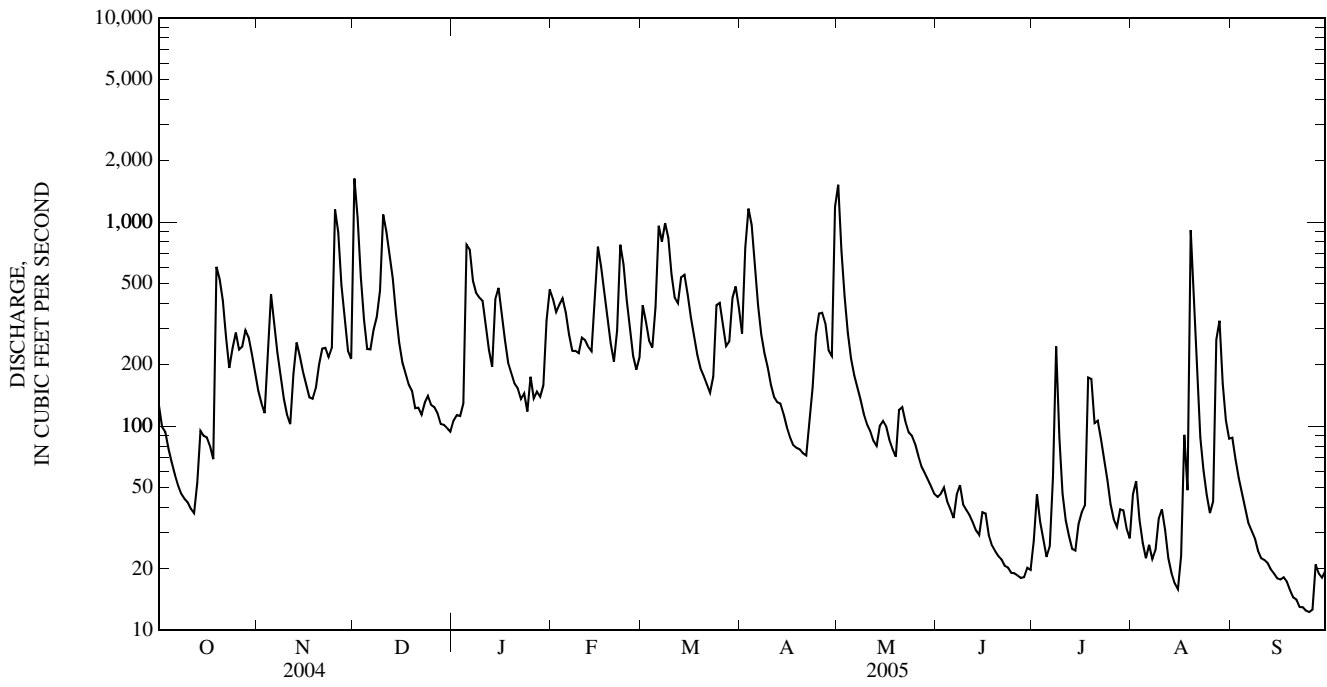
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

	62.7	136	209	291	366	373	317	260	135	90.0	67.0	47.4
MEAN	62.7	136	209	291	366	373	317	260	135	90.0	67.0	47.4
MAX	365	548	491	833	790	981	766	664	551	475	308	153
(WY)	(1990)	(2004)	(1979)	(1979)	(2003)	(1975)	(1987)	(1996)	(1981)	(2001)	(1977)	(1996)
MIN	5.27	10.7	37.6	47.5	89.7	96.0	74.8	38.9	16.9	12.2	6.32	5.21
(WY)	(1992)	(1999)	(1998)	(1977)	(2002)	(1988)	(1986)	(1976)	(1999)	(1988)	(1987)	(1999)

03202750 CLEAR FORK AT CLEAR FORK, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	96,891		77,481		195	
ANNUAL MEAN	265		212		318	
HIGHEST ANNUAL MEAN					76.5	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	5,130	May 31	1,640	Dec 1	6,380	Apr 5, 1977
LOWEST DAILY MEAN	18	Sep 7	12	(a)	2.2	Sep 26, 1999
ANNUAL SEVEN-DAY MINIMUM	23	Sep 1	13	Sep 20	2.8	Sep 22, 1999
MAXIMUM PEAK FLOW			2,430	Dec 1	(b)10,700	Jul 8, 2001
MAXIMUM PEAK STAGE			7.41	Dec 1	(c)18.64	Apr 5, 1977
INSTANTANEOUS LOW FLOW			11	Sep 25	1.7	Sep 27, 1999
ANNUAL RUNOFF (CFSM)	2.10		1.68		1.55	
ANNUAL RUNOFF (INCHES)	28.61		22.88		21.07	
10 PERCENT EXCEEDS	551		471		448	
50 PERCENT EXCEEDS	154		130		90	
90 PERCENT EXCEEDS	38		23		13	

- a Sept. 24, 25.
- b From slope-conveyance measurement of peak flow.
- c Site and datum then in use.



03203600 GUYANDOTTE RIVER AT LOGAN, WV

LOCATION.--Lat 37°50'32", long 81°58'34", NAD 27, Logan County, Hydrologic Unit 05070101, on right bank 200 ft downstream from Midelburg Bridge at Logan, 0.8 mi downstream from Dingess Run, 1.1 mi upstream from Island Creek, and at mile 81.0.

DRAINAGE AREA.--833 mi².

PERIOD OF RECORD.--October 1960 to September 1962 (annual maximum only), October 1962 to current year. Gage-height records collected in this vicinity since November 1915 are contained in reports of National Weather Service.

REVISED RECORDS.--WDR WV-82-1: Drainage area. WDR WV-94-1: 1993.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 640.49 ft above NGVD 29. Datum published as 640.00 ft, 1963 to 1993. Prior to Oct. 1, 1962, at datum 1.32 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since February 1980 by R. D. Bailey Lake at mile 112.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 6,970 ft³/s, May 1, gage height, 12.20 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	793	993	3,470	819	2,520	2,810	1,950	6,230	392	240	357	438
2	700	960	5,270	840	2,160	2,710	1,780	4,850	408	830	483	310
3	705	895	4,380	909	2,040	2,000	4,850	2,760	408	839	579	285
4	682	940	2,630	847	2,260	1,760	3,910	2,120	372	548	440	270
5	664	1,530	1,820	1,940	2,070	1,970	3,820	1,680	349	382	285	260
6	550	1,750	1,640	3,350	1,830	2,660	2,850	1,380	316	347	245	253
7	416	1,650	1,700	2,730	1,670	3,540	2,310	1,280	295	781	234	234
8	400	1,290	1,970	1,300	1,520	4,570	1,860	1,120	293	2,230	307	199
9	368	1,010	2,210	1,270	1,550	4,570	1,700	1,040	281	1,880	299	190
10	407	866	3,590	1,040	1,680	4,030	1,480	865	274	877	267	187
11	333	772	4,970	4,190	1,750	2,880	1,430	838	266	539	249	162
12	325	875	4,600	3,500	1,630	2,520	1,070	806	264	497	243	110
13	362	1,190	3,230	1,850	1,540	2,720	1,170	760	242	374	216	124
14	566	1,370	2,360	2,570	1,880	2,880	1,130	771	241	350	189	99
15	857	1,370	1,900	3,260	2,660	2,940	1,050	951	258	322	186	113
16	942	1,040	1,200	2,990	3,040	2,330	765	970	287	344	185	173
17	865	989	1,580	2,010	2,880	2,050	747	768	264	416	230	210
18	462	1,020	1,520	1,880	2,310	1,830	877	632	228	953	271	151
19	1,720	1,120	1,240	1,720	1,890	1,640	855	612	212	1,830	1,700	136
20	2,670	1,280	1,090	1,430	1,630	1,480	739	751	198	1,330	2,810	132
21	1,890	1,300	934	1,410	1,960	1,440	675	699	204	862	1,330	129
22	1,740	1,380	862	1,290	3,240	1,280	796	819	191	658	802	128
23	1,470	1,390	1,110	1,120	4,230	1,370	1,020	713	190	628	502	127
24	1,350	1,350	1,150	993	3,000	1,970	1,320	629	173	431	433	129
25	1,500	1,500	1,110	815	2,210	2,560	1,580	587	146	386	344	127
26	1,660	2,770	1,070	1,150	1,830	2,410	1,630	565	143	348	298	131
27	1,520	2,870	953	1,310	1,590	1,810	1,510	538	143	343	626	149
28	1,450	2,440	883	970	1,680	1,990	1,440	439	153	373	952	139
29	1,510	1,620	746	1,220	---	2,850	1,410	426	160	381	1,060	146
30	1,460	1,400	797	1,830	---	3,120	4,490	415	154	461	903	145
31	1,340	---	783	2,610	---	3,010	---	406	---	365	476	---
TOTAL	31,677	40,930	62,768	55,163	60,250	77,700	52,214	37,420	7,505	21,145	17,501	5,386
MEAN	1,022	1,364	2,025	1,779	2,152	2,506	1,740	1,207	250	682	565	180
MAX	2,670	2,870	5,270	4,190	4,230	4,570	4,850	6,230	408	2,230	2,810	438
MIN	325	772	746	815	1,520	1,280	675	406	143	240	185	99

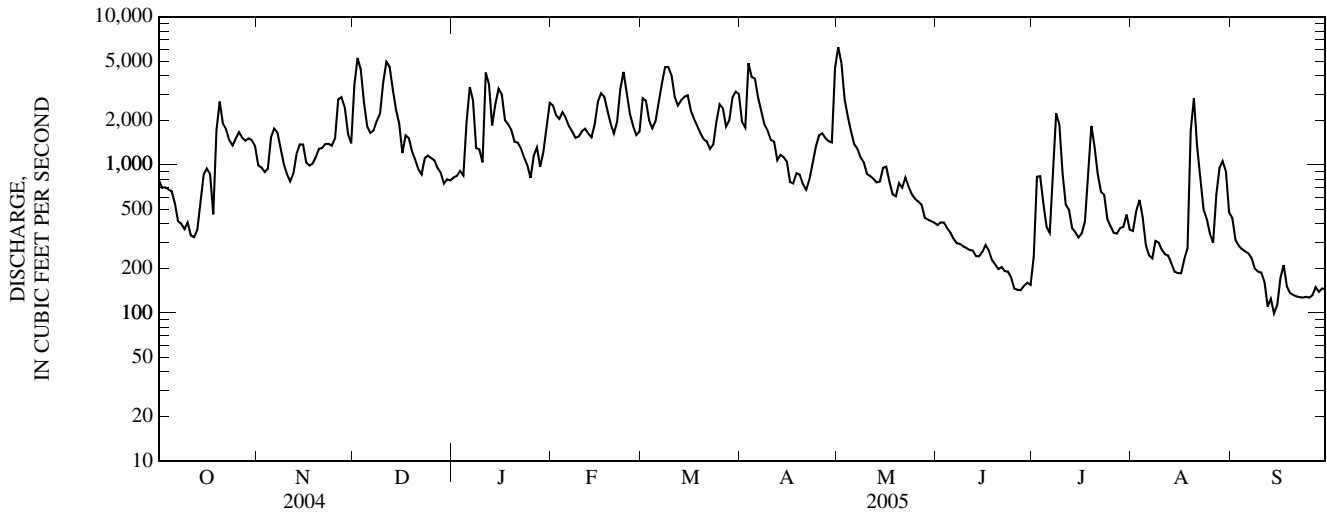
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	394	747	1,074	1,509	2,142	2,139	1,838	1,678	916	564	406	307
MAX	2,211	2,754	2,255	3,267	4,250	4,370	5,213	3,889	3,430	1,852	1,108	891
(WY)	(1990)	(2004)	(1992)	(1994)	(1994)	(1993)	(1987)	(1996)	(1981)	(2001)	(2000)	(2003)
MIN	162	98.9	235	375	543	449	354	577	150	120	89.1	70.2
(WY)	(1999)	(1988)	(1998)	(2000)	(2002)	(1988)	(1986)	(2000)	(1999)	(1988)	(1987)	(1999)

03203600 GUYANDOTTE RIVER AT LOGAN, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	584,945		469,659		1,137	
ANNUAL MEAN	1,598		1,287		1,712	
HIGHEST ANNUAL MEAN					432	
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	13,900	May 31	6,230	May 1	14,800	May 7, 1984
LOWEST DAILY MEAN	178	Sep 6	99	Sep 14	48	(a)
ANNUAL SEVEN-DAY MINIMUM	212	Sep 1	129	Sep 20	51	Sep 14, 1999
MAXIMUM PEAK FLOW			6,970	May 1	27,200	May 7, 1984
MAXIMUM PEAK STAGE			12.20	May 1	26.21	May 31, 2004
INSTANTANEOUS LOW FLOW			98	Sep 14	45	Oct 26, 1991
10 PERCENT EXCEEDS	3,920		2,810		2,930	
50 PERCENT EXCEEDS	1,140		993		612	
90 PERCENT EXCEEDS	368		208		153	

a July 10, Aug. 18, 1988.



STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1979, BY WATER YEAR (WY) [UNREGULATED]

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	427	739	1,491	1,995	1,984	2,606	1,921	1,398	796	462	493	319
MAX	1,462	2,111	3,582	5,381	5,021	5,732	3,891	2,471	3,578	1,592	2,107	1,142
(WY)	(1977)	(1978)	(1973)	(1974)	(1972)	(1975)	(1977)	(1975)	(1979)	(1979)	(1972)	(1966)
MIN	48.8	69.0	67.5	125	857	813	526	362	171	122	90.1	83.2
(WY)	(1964)	(1966)	(1966)	(1966)	(1968)	(1969)	(1963)	(1964)	(1970)	(1964)	(1964)	(1965)

SUMMARY STATISTICS	WATER YEARS 1963 - 1979	
ANNUAL MEAN	1,217	
HIGHEST ANNUAL MEAN	1,936	1979
LOWEST ANNUAL MEAN	570	1969
HIGHEST DAILY MEAN	40,800	Mar 12, 1963
LOWEST DAILY MEAN	34	Sep 17, 1964
ANNUAL SEVEN-DAY MINIMUM	41	Sep 13, 1964
INSTANTANEOUS PEAK FLOW	(*)55,000	Mar 12, 1963
INSTANTANEOUS PEAK STAGE	34.98	Mar 12, 1963
INSTANTANEOUS LOW FLOW	33	Sep 17, 1964
10 PERCENT EXCEEDS	2,560	
50 PERCENT EXCEEDS	602	
90 PERCENT EXCEEDS	110	

* From rating curve extended above 26,000 ft³/s on basis of slope-area measurements at gage heights 25.60 ft and 34.98 ft.

GUYANDOTTE RIVER BASIN

03204250 MUD RIVER AT PALERMO, WV
(Detention Reservoir)

LOCATION.--Lat 38°09'54", long 82°03'31" (corrected), NAD 83, Lincoln County, Hydrologic Unit 05070102.

DAM NAME.--Upper Mud No. 2-A.

SURFACE AREA.--306 acres.

DRAINAGE AREA.--51.3 mi².

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 700.0 ft above NGVD 29, (corrected).

REMARKS.-- Normal Pool = 21.5 ft (Normal Storage = 4,490 acre-ft)

Top of Riser = 29.0 ft

Emergency Spillway = 42.5 ft

Top of Dam = 59.5 ft

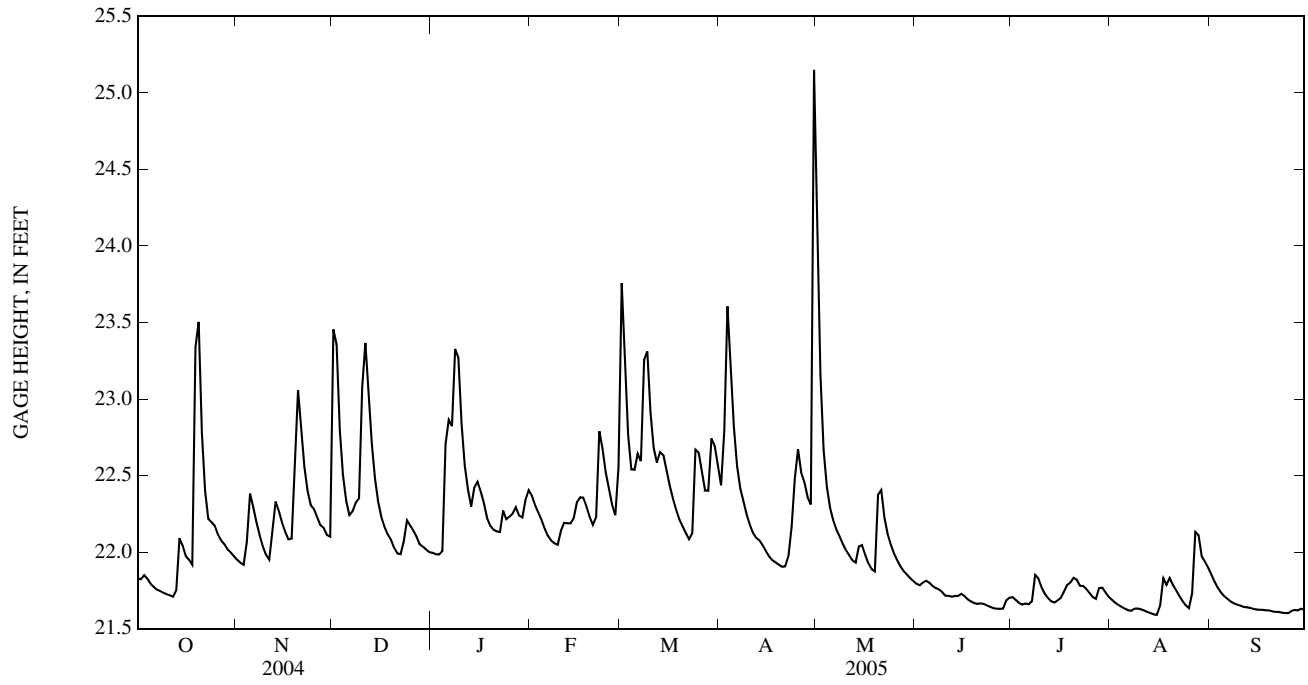
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 27.98 ft, Nov. 19, 2003; minimum gage height, 21.58 ft, Aug. 16, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.73 ft, Apr. 30; minimum gage height, 21.58 ft, Aug. 16.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.83	21.95	23.45	22.00	22.37	23.76	22.44	24.48	21.79	21.71	21.69	21.86
2	21.82	21.93	23.36	21.99	22.31	23.20	22.79	23.16	21.78	21.69	21.67	21.81
3	21.85	21.92	22.80	21.99	22.26	22.77	23.60	22.67	21.80	21.67	21.65	21.77
4	21.83	22.07	22.50	22.01	22.21	22.54	23.26	22.43	21.81	21.66	21.64	21.74
5	21.79	22.38	22.34	22.71	22.15	22.54	22.82	22.29	21.80	21.66	21.63	21.71
6	21.77	22.29	22.24	22.86	22.11	22.64	22.56	22.21	21.78	21.66	21.62	21.70
7	21.75	22.20	22.27	22.82	22.07	22.59	22.42	22.15	21.76	21.68	21.62	21.68
8	21.75	22.11	22.32	23.33	22.06	23.25	22.33	22.10	21.76	21.85	21.63	21.66
9	21.73	22.04	22.35	23.27	22.05	23.31	22.25	22.05	21.74	21.83	21.63	21.66
10	21.73	21.98	23.08	22.84	22.14	22.91	22.18	22.01	21.72	21.77	21.63	21.65
11	21.72	21.95	23.37	22.57	22.19	22.68	22.13	21.98	21.71	21.73	21.62	21.64
12	21.71	22.13	23.02	22.41	22.19	22.58	22.09	21.95	21.71	21.70	21.61	21.64
13	21.75	22.33	22.71	22.30	22.19	22.65	22.08	21.93	21.71	21.68	21.60	21.64
14	22.09	22.27	22.48	22.42	22.22	22.63	22.04	22.04	21.71	21.67	21.59	21.63
15	22.04	22.19	22.33	22.46	22.33	22.53	22.01	22.05	21.73	21.68	21.59	21.63
16	21.97	22.13	22.23	22.40	22.36	22.43	21.97	21.98	21.71	21.70	21.65	21.62
17	21.95	22.08	22.17	22.32	22.36	22.35	21.95	21.93	21.69	21.74	21.83	21.62
18	21.92	22.09	22.12	22.22	22.30	22.28	21.93	21.89	21.68	21.78	21.79	21.62
19	23.34	22.49	22.08	22.17	22.23	22.21	21.92	21.87	21.67	21.80	21.83	21.62
20	23.50	23.06	22.03	22.15	22.18	22.17	21.90	22.37	21.66	21.83	21.79	21.61
21	22.78	22.79	21.99	22.14	22.23	22.12	21.91	22.41	21.67	21.82	21.75	21.61
22	22.40	22.55	21.99	22.13	22.79	22.08	21.97	22.23	21.66	21.78	21.71	21.61
23	22.22	22.40	22.07	22.27	22.68	22.12	22.17	22.12	21.65	21.78	21.68	21.60
24	22.20	22.31	22.21	22.22	22.52	22.67	22.48	22.05	21.64	21.76	21.65	21.60
25	22.17	22.28	22.17	22.23	22.41	22.65	22.67	21.99	21.63	21.73	21.63	21.60
26	22.11	22.23	22.14	22.25	22.31	22.52	22.52	21.95	21.63	21.71	21.73	21.61
27	22.08	22.18	22.10	22.29	22.24	22.40	22.46	21.91	21.63	21.69	22.13	21.62
28	22.05	22.16	22.05	22.24	22.56	22.40	22.36	21.87	21.63	21.76	22.11	21.62
29	22.02	22.11	22.03	22.23	---	22.74	22.31	21.85	21.68	21.77	21.97	21.63
30	22.00	22.10	22.02	22.34	---	22.70	25.15	21.83	21.70	21.74	21.94	21.62
31	21.97	---	22.00	22.40	---	22.56	---	21.81	---	21.71	21.90	---
MEAN	22.06	22.22	22.39	22.39	22.29	22.61	22.42	22.18	21.71	21.73	21.73	21.65
MAX	23.50	23.06	23.45	23.33	22.79	23.76	25.15	24.48	21.81	21.85	22.13	21.86
MIN	21.71	21.92	21.99	21.99	22.05	22.08	21.90	21.81	21.63	21.66	21.59	21.60

03204250 MUD RIVER AT PALERMO, WV—Continued



03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV

LOCATION.--Lat 38°01'02", long 82°17'46", NAD 27, Wayne County, Hydrologic Unit 05090102, on left bank 0.2 mi upstream from Maynard Branch, 0.9 mi downstream from McComas Branch, 1.5 mi upstream from Devilstrace Branch, and 7.5 mi east of Dunlow, and at mile 60.2.

DRAINAGE AREA.--38.5 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area. WDR WV-04-1: 1991-2003(P). WDR WV-05-1: 1967(M), 1970(P), 1974(P), 1977(M), 1979(M), 1989(M), 1990(P), 1992-94(P), 1995(M), 1996-98(P), 1999-2001(M), 2002-04(P).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 710.00 ft above NGVD 29. Prior to Dec. 22, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of estimated daily discharges (ice effect), which is poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 840 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 30	1300	*2,350	*12.73	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	32	528	37	77	274	80	354	8.4	2.0	1.3	6.4
2	13	29	247	35	69	174	164	166	8.8	2.1	1.2	4.3
3	20	28	141	36	65	121	341	105	13	1.9	1.1	3.2
4	14	59	96	40	57	97	203	75	13	2.0	1.0	2.6
5	12	75	72	161	50	98	131	58	8.9	2.1	0.92	2.2
6	9.8	63	61	170	46	93	97	49	7.6	2.4	0.82	1.9
7	9.8	54	70	159	42	89	79	42	6.6	3.6	0.82	1.7
8	8.3	44	63	370	42	214	68	37	6.3	11	0.85	1.6
9	7.9	37	126	246	41	187	56	32	5.7	5.0	0.91	1.6
10	7.3	32	294	154	54	140	48	28	5.5	3.0	1.00	1.5
11	6.5	30	226	109	49	117	42	25	6.2	2.4	1.0	1.5
12	6.4	54	161	87	48	114	40	22	7.3	2.2	0.90	1.5
13	13	56	117	72	48	129	42	21	6.5	1.9	0.81	1.4
14	42	50	86	96	57	118	37	25	6.1	2.0	0.74	1.4
15	22	46	68	84	68	99	33	21	4.5	6.6	0.63	1.3
16	20	43	57	78	69	84	29	17	3.6	9.7	1.1	1.4
17	20	39	51	68	65	72	26	15	3.1	6.4	4.0	4.1
18	16	42	45	63	59	63	26	14	2.9	19	4.4	2.6
19	382	75	42	58	53	55	25	15	2.7	12	6.6	2.1
20	193	105	33	52	49	51	24	65	2.6	5.8	7.0	1.8
21	111	97	35	49	59	45	22	36	2.7	7.2	3.2	1.6
22	82	83	34	e55	87	41	23	26	2.5	10	2.1	1.5
23	63	70	54	e49	80	79	43	23	2.3	4.6	1.8	1.4
24	68	65	54	e47	75	126	67	21	2.1	2.9	2.7	1.3
25	57	71	50	e52	67	94	87	18	2.0	2.5	1.8	1.3
26	50	61	47	e50	59	82	76	16	1.9	2.2	8.4	1.9
27	48	57	42	e48	52	72	84	14	1.8	2.1	29	3.5
28	45	57	40	e52	144	81	72	13	1.8	2.1	15	2.7
29	42	48	38	65	---	120	72	11	1.8	2.0	6.1	3.0
30	40	65	36	83	---	101	1,490	10	1.8	2.0	21	3.7
31	38	---	33	80	---	94	---	9.4	---	1.6	9.5	---
TOTAL	1,479.0	1,667	3,047	2,805	1,731	3,324	3,627	1,383.4	150.0	142.3	137.70	68.0
MEAN	47.7	55.6	98.3	90.5	61.8	107	121	44.6	5.00	4.59	4.44	2.27
MAX	382	105	528	370	144	274	1,490	354	13	19	29	6.4
MIN	6.4	28	33	35	41	41	22	9.4	1.8	1.6	0.63	1.3
CFSM	1.24	1.44	2.55	2.35	1.61	2.79	3.14	1.16	0.13	0.12	0.12	0.06
IN.	1.43	1.61	2.94	2.71	1.67	3.21	3.50	1.34	0.14	0.14	0.13	0.07

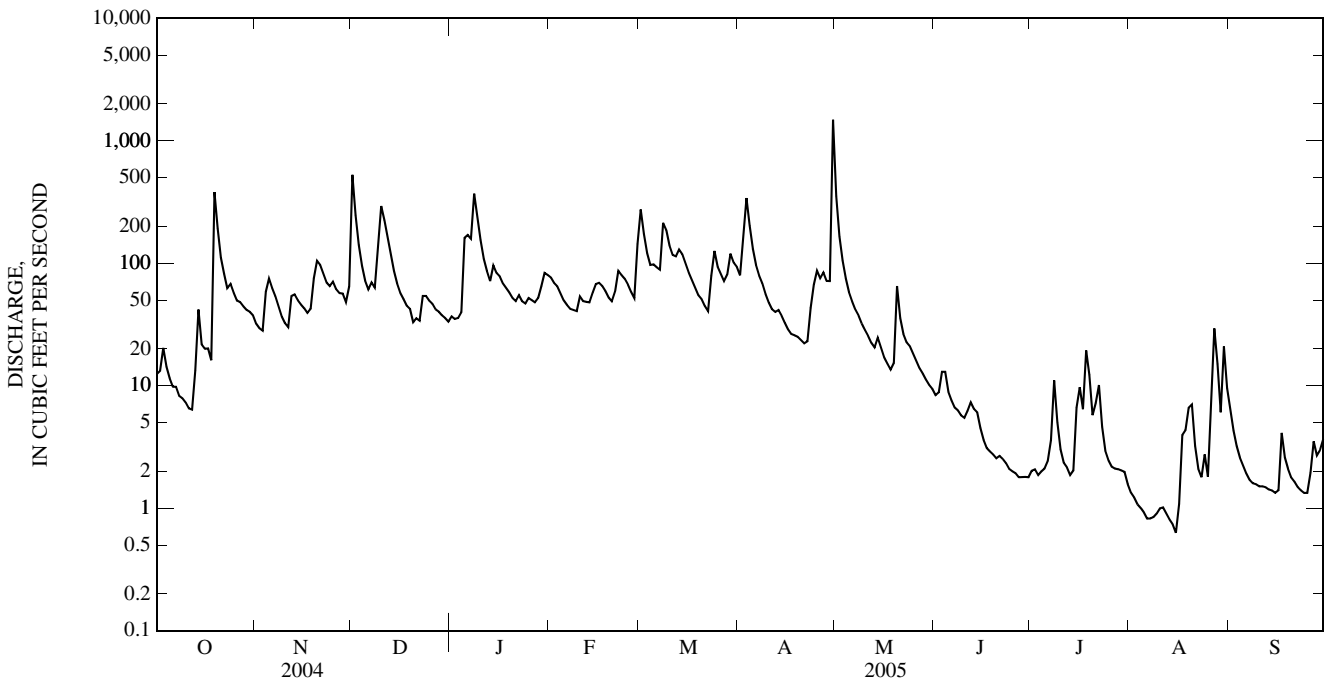
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

MEAN	12.1	33.3	65.7	76.7	99.1	107	91.1	66.9	38.7	15.7	11.7	11.2
MAX	92.6	179	279	247	334	282	212	240	216	92.4	79.4	98.3
(WY)	(1990)	(2004)	(1979)	(1994)	(2003)	(1994)	(1987)	(1996)	(2003)	(1971)	(1977)	(2004)
MIN	0.65	1.28	1.52	8.75	11.2	23.3	13.3	9.11	0.70	1.86	0.71	0.20
(WY)	(1992)	(2002)	(1966)	(2000)	(2002)	(1969)	(1986)	(1991)	(1966)	(1988)	(1967)	(1967)

03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005	
ANNUAL TOTAL	24,271.5		19,561.40		52.2	
ANNUAL MEAN	66.3		53.6		18.9	
HIGHEST ANNUAL MEAN					98.3	1979
LOWEST ANNUAL MEAN					18.9	1988
HIGHEST DAILY MEAN	925	Sep 17	1,490	Apr 30	3,110	Dec 9, 1978
LOWEST DAILY MEAN	3.6	Sep 7	0.63	Aug 15	0.00	(a)
ANNUAL SEVEN-DAY MINIMUM	5.4	Jul 15	0.86	Aug 9	0.01	Sep 18, 1967
MAXIMUM PEAK FLOW			2,350	Apr 30	(b)5,040	Dec 9, 1978
MAXIMUM PEAK STAGE			12.73	Apr 30	15.84	Dec 9, 1978
INSTANTANEOUS LOW FLOW			0.60	(c)	0.00	(a)
ANNUAL RUNOFF (CFSM)	1.72		1.39		1.36	
ANNUAL RUNOFF (INCHES)	23.45		18.90		18.41	
10 PERCENT EXCEEDS	140		112		120	
50 PERCENT EXCEEDS	38		37		18	
90 PERCENT EXCEEDS	8.3		1.8		1.3	

- a Sept. 15-17, 1998.
- b From rating curve extended above 1,300 ft³/s on basis of slope-area measurements at gage-heights 15.84 and 13.18 ft and slope-conveyance determination.
- c Aug. 15, 16.
- e Estimated.



03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV—Continued

REVISIONS.--The peak discharges and annual maximum (*) reported for water years 1967, 1970, 1974, 1977, 1979, 1989, 1990, 1992-2004 have been revised as shown in the following table. They supercede values published in the reports from 1967-2004.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 07, 1967	0600	*2,340	*12.35	May 08, 1996	2100	1,510	10.89
Dec 30, 1969	2100	*2,530	*12.64	May 16, 1996	0800	*2,010	*12.05
Feb 15, 1970	1730	2,430	12.49	Mar 01, 1997	1830	937	9.62
Nov 27, 1973	1530	*2,960	*13.26	Mar 03, 1997	1830	*2,320	*12.67
Jan 10, 1974	1800	2,580	12.72	May 26, 1997	1100	891	9.50
Apr 05, 1977	0430	*2,650	*12.82	Apr 19, 1998	1800	1,680	11.22
Dec 09, 1978	0630	*5,100	*15.84	Jun 12, 1998	1700	*1,830	*11.49
Jun 16, 1989	0230	*3,800	*14.74	Jan 09, 1999	1030	*1,440	*10.76
Dec 18, 1990	2030	1,430	10.74	Jun 22, 2000	1000	*1,440	*10.75
Dec 30, 1990	2300	*2,180	*12.39	Feb 17, 2001	0300	*773	*9.18
Dec 03, 1991	0030	*2,130	*12.28	Mar 19, 2002	2300	1,060	9.93
Jun 14, 1992	1100	1,170	10.19	Mar 20, 2002	1600	*1,500	*10.88
Feb 21, 1993	1800	1,230	10.32	Mar 31, 2002	2300	1,340	10.55
Mar 04, 1993	2300	*1,800	*11.45	Apr 28, 2002	2300	1,030	9.84
Mar 24, 1993	0930	918	9.57	Feb 16, 2003	1500	2,920	13.79
Jan 07, 1994	1930	*2,570	*13.16	Feb 23, 2003	0700	1,850	11.53
Feb 09, 1994	1630	1,410	10.69	Jun 17, 2003	0100	*3,880	*15.45
Feb 11, 1994	1830	1,090	9.99	Jun 18, 2003	0700	2,510	13.05
Feb 23, 1994	1200	1,500	10.87	Sept 04, 2003	1000	1,030	9.84
Mar 02, 1994	2100	941	9.63	Nov 12, 2003	2100	*2,880	*13.71
Mar 10, 1994	0430	1,310	10.48	Nov 19, 2003	2100	2,120	12.27
Mar 28, 1994	0900	2,090	11.95	Feb 06, 2004	1300	1,180	10.18
May 08, 1994	0500	2,190	12.41	Mar 06, 2004	0800	1,140	10.08
May 19, 1995	0900	*1,590	*11.05	Jun 25, 2004	2200	1,410	10.73
Jan 19, 1996	0900	1,440	10.75	Sept 17, 2004	unknown	2,100	13.18
May 06, 1996	0200	1,270	10.40				

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BIG SANDY RIVER BASIN

03212750 TUG FORK AT WELCH, WV

LOCATION.--Lat 37°26'28", long 81°36'00", NAD 27, McDowell County, Hydrologic Unit 05070201, on left bank at bridge in the Hemphill section of Welch, 20 ft downstream from Mod Branch, and at mile 131.5.

DRAINAGE AREA.--174 mi².

PERIOD OF RECORD.--January 1985 to September 1993, October 1996 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,268.00 ft above NGVD 29.

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	1900	*1,310	*6.98	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	116	503	174	460	450	512	906	160	157	254	80
2	100	111	419	166	424	411	688	683	179	143	129	76
3	99	107	308	161	435	382	835	562	171	102	108	74
4	90	145	253	167	415	368	780	482	160	97	99	72
5	85	153	221	251	391	425	670	427	152	104	93	71
6	82	140	290	256	363	525	593	388	146	106	90	69
7	80	129	599	254	342	510	548	359	144	214	93	67
8	78	119	421	270	332	714	506	334	142	366	105	67
9	77	109	699	253	325	692	465	313	149	159	105	66
10	77	105	1,000	246	355	610	427	310	157	120	96	64
11	75	102	708	258	334	585	397	293	139	107	89	64
12	75	167	577	328	325	586	390	273	133	101	87	63
13	91	181	493	321	321	637	392	276	140	97	85	62
14	109	156	421	802	383	614	375	386	137	110	83	61
15	95	140	364	624	396	567	348	331	142	157	81	61
16	86	131	331	506	412	545	327	294	128	145	81	61
17	81	124	307	419	397	513	314	270	123	159	87	63
18	78	127	285	361	374	477	301	255	120	149	80	61
19	141	124	273	333	355	449	288	243	117	142	358	60
20	125	120	242	316	345	426	276	261	114	152	189	59
21	151	118	237	301	443	400	275	234	111	123	132	60
22	152	115	226	285	567	378	287	221	109	112	105	60
23	121	119	234	273	534	443	326	216	106	104	95	60
24	135	140	217	246	492	477	339	219	104	98	89	59
25	138	239	205	250	444	461	331	206	101	94	83	59
26	123	226	199	256	404	449	318	196	100	90	91	59
27	134	192	189	269	373	428	307	188	100	90	121	58
28	136	174	179	256	410	486	288	182	101	115	107	55
29	135	154	179	291	---	639	365	176	99	135	90	59
30	135	164	174	510	---	607	575	171	96	135	86	58
31	125	---	171	521	---	560	---	165	---	172	83	---
TOTAL	3,309	4,247	10,924	9,924	11,151	15,814	12,843	9,820	3,880	4,155	3,474	1,908
MEAN	107	142	352	320	398	510	428	317	129	134	112	63.6
MAX	152	239	1,000	802	567	714	835	906	179	366	358	80
MIN	75	102	171	161	321	368	275	165	96	90	80	55
CFSM	0.61	0.81	2.03	1.84	2.29	2.93	2.46	1.82	0.74	0.77	0.64	0.37
IN.	0.71	0.91	2.34	2.12	2.38	3.38	2.75	2.10	0.83	0.89	0.74	0.41

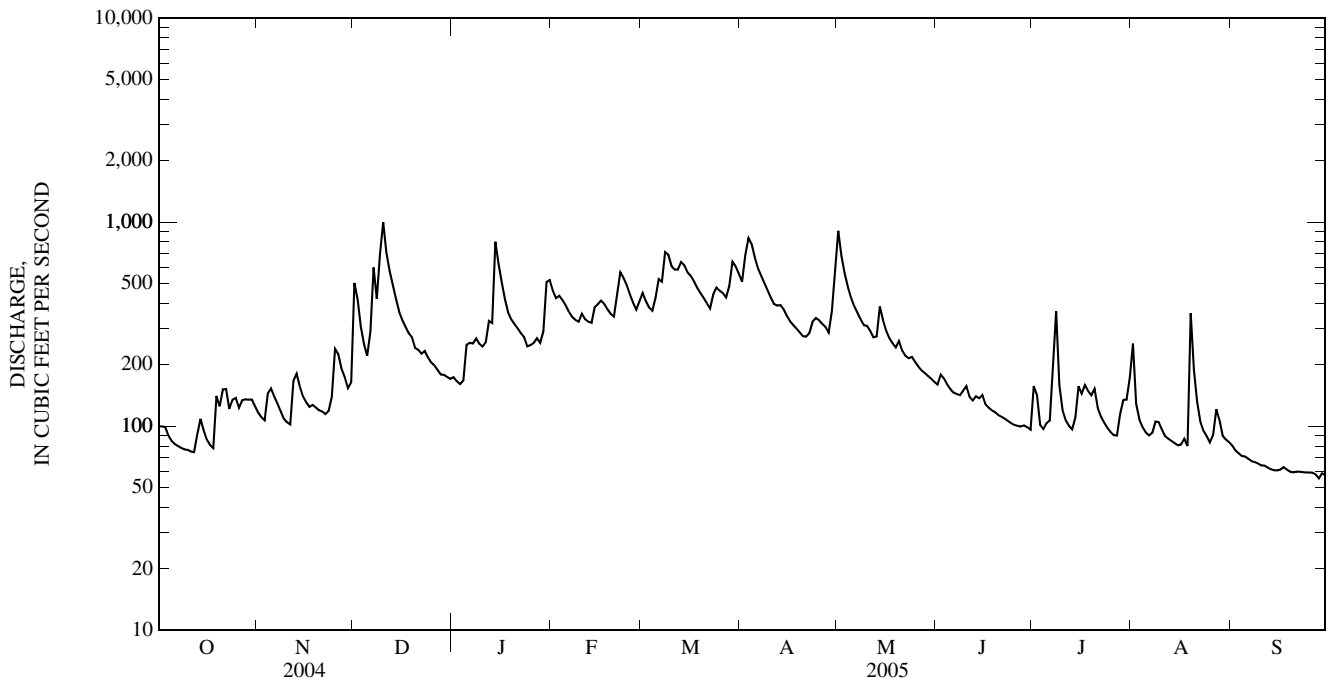
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	68.8	106	164	206	325	371	395	319	200	148	109	72.4
MAX	189	406	389	591	813	741	1,206	648	387	505	322	165
(WY)	(1990)	(2004)	(2004)	(2004)	(2003)	(1993)	(1987)	(1989)	(2004)	(2001)	(2003)	(2003)
MIN	34.3	35.6	35.5	42.6	69.1	83.3	155	128	74.1	56.6	39.3	39.1
(WY)	(2000)	(1999)	(2000)	(2000)	(2002)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1987)

03212750 TUG FORK AT WELCH, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	115,095		91,449			
ANNUAL MEAN	314		251		209	
HIGHEST ANNUAL MEAN					339	2004
LOWEST ANNUAL MEAN					75.9	1988
HIGHEST DAILY MEAN	2,470	Apr 14	1,000	Dec 10	4,300	Apr 25, 1987
LOWEST DAILY MEAN	74	Sep 6	55	Sep 28	25	Oct 19, 1999
ANNUAL SEVEN-DAY MINIMUM	76	Sep 1	58	Sep 24	27	Oct 22, 1999
MAXIMUM PEAK FLOW			1,310	Dec 9	(a)13,100	May 2, 2002
MAXIMUM PEAK STAGE			6.98	Dec 9	(b)22.09	May 2, 2002
INSTANTANEOUS LOW FLOW			54	(c)	17	Jan 10, 2001
ANNUAL RUNOFF (CFSM)	1.81		1.44		1.20	
ANNUAL RUNOFF (INCHES)	24.61		19.55		16.29	
10 PERCENT EXCEEDS	593		510		428	
50 PERCENT EXCEEDS	252		179		133	
90 PERCENT EXCEEDS	90		80		41	

a From rating curve extended above 11,500 ft³/s.
 b From floodmarks.
 c Sept. 28, 29.



BIG SANDY RIVER BASIN

03212980 DRY FORK AT BEARTOWN, WV

LOCATION.--Lat 37°23'43", long 81°48'10", NAD 27, McDowell County, Hydrologic Unit 05070201, on left bank 20 ft upstream from bridge on State Highway 80/3, 0.4 mi upstream from Grapevine Branch, and at mile 7.1.

DRAINAGE AREA.--209 mi².

PERIOD OF RECORD.--February 1985 to September 1993, October 1996 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,056.00 ft above NGVD 29.

REMARKS.--Records good except those for October (doubtful gage-height record), which are fair, and period of estimated daily discharge (orifice plugged), which are poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	2300	*3,230	*7.77	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	128	1,140	170	700	573	535	1,510	115	67	223	40
2	145	e125	898	162	554	528	915	974	130	69	90	36
3	141	e125	516	155	497	461	1,450	668	134	68	66	39
4	127	e150	361	158	436	432	1,180	509	138	67	55	43
5	109	e190	282	205	392	531	836	417	125	66	54	41
6	99	e190	383	237	358	827	638	362	111	76	58	40
7	92	e170	1,420	259	331	701	528	326	115	165	68	38
8	90	e150	818	302	316	1,110	459	296	117	455	67	38
9	95	122	1,210	334	299	1,130	408	266	123	162	84	37
10	98	109	2,190	338	333	824	353	245	142	107	70	36
11	98	101	1,100	328	314	684	326	242	115	88	62	30
12	102	149	820	441	309	634	317	218	101	81	54	29
13	130	268	644	456	305	692	350	205	96	72	49	30
14	146	248	488	1,210	369	673	682	351	105	68	45	35
15	149	205	388	1,020	433	585	502	287	122	79	49	34
16	136	177	333	675	456	526	401	238	98	79	51	34
17	119	154	302	503	438	483	352	215	86	84	59	35
18	115	147	277	384	398	450	322	197	78	105	54	32
19	198	149	262	336	360	426	300	184	77	116	159	33
20	225	138	228	313	330	406	281	202	80	104	136	32
21	185	137	222	297	391	372	270	183	76	83	74	27
22	151	131	215	276	463	343	280	166	77	75	57	26
23	124	130	224	292	481	385	322	159	70	72	53	31
24	134	200	240	250	459	459	331	166	66	68	51	31
25	131	674	227	274	413	471	335	156	67	65	48	29
26	131	529	221	293	359	478	330	146	70	62	47	30
27	177	353	204	363	327	456	325	137	68	60	54	31
28	303	283	186	377	383	552	293	131	70	64	56	25
29	263	217	189	418	---	924	360	127	66	104	50	26
30	205	208	182	964	---	829	700	121	66	86	48	31
31	159	---	174	942	---	657	---	121	---	125	47	---
TOTAL	4,545	6,057	16,344	12,732	11,204	18,602	14,681	9,525	2,904	3,042	2,138	999
MEAN	147	202	527	411	400	600	489	307	96.8	98.1	69.0	33.3
MAX	303	674	2,190	1,210	700	1,130	1,450	1,510	142	455	223	43
MIN	90	101	174	155	299	343	270	121	66	60	45	25
CFSM	0.70	0.97	2.52	1.97	1.91	2.87	2.34	1.47	0.46	0.47	0.33	0.16
IN.	0.81	1.08	2.91	2.27	1.99	3.31	2.61	1.70	0.52	0.54	0.38	0.18

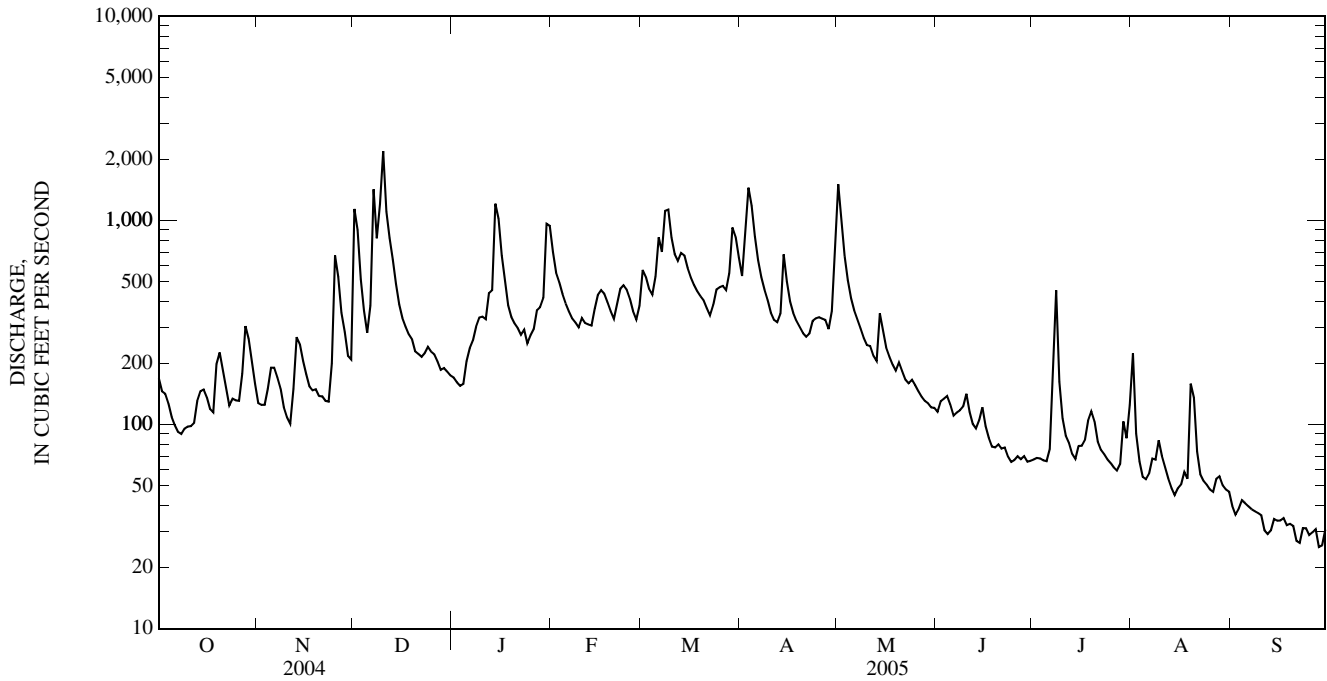
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

	65.3	114	210	258	411	457	459	319	198	128	89.6	59.4
MEAN	65.3	114	210	258	411	457	459	319	198	128	89.6	59.4
MAX	347	378	572	631	1,098	1,033	1,455	799	545	564	345	221
(WY)	(1990)	(2004)	(1992)	(2004)	(2003)	(1993)	(1987)	(1989)	(2004)	(2001)	(2003)	(1989)
MIN	22.4	23.6	28.8	62.0	72.0	93.7	110	104	39.3	28.2	22.4	26.9
(WY)	(1998)	(1999)	(1998)	(2001)	(2002)	(1988)	(1986)	(1988)	(1988)	(1988)	(1988)	(1985)

03212980 DRY FORK AT BEARTOWN, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	133,058		102,773			
ANNUAL MEAN	364		282		234	
HIGHEST ANNUAL MEAN					359 2004	
LOWEST ANNUAL MEAN					75.0 1988	
HIGHEST DAILY MEAN	3,940	Apr 14	2,190	Dec 10	6,580	Feb 16, 2003
LOWEST DAILY MEAN	55	(a)	25	Sep 28	15	(b)
ANNUAL SEVEN-DAY MINIMUM	57	Sep 1	29	Sep 22	17	Oct 26, 1999
MAXIMUM PEAK FLOW			3,230	Dec 9	(c)15,900	May 2, 2002
MAXIMUM PEAK STAGE			7.77	Dec 9	(d)15.21	May 2, 2002
INSTANTANEOUS LOW FLOW			23	(f)	13	(g)
ANNUAL RUNOFF (CFSM)	1.74		1.35		1.12	
ANNUAL RUNOFF (INCHES)	23.68		18.29		15.21	
10 PERCENT EXCEEDS	819		640		509	
50 PERCENT EXCEEDS	222		186		120	
90 PERCENT EXCEEDS	85		49		29	

- a Sept. 6, 7.
- b Oct. 29, 1987, and Sept. 3, 1988.
- c From rating curve extended above 11,700 ft³/s.
- d From floodmarks.
- e Estimated.
- f Sept. 28, 29.
- g Oct. 29, 30, 1987.



03213500 PANTHER CREEK NEAR PANTHER, WV

LOCATION.--Lat 37°26'44" (corrected), long 81°52'16" (corrected), NAD 83, McDowell County, Hydrologic Unit 05070201, on left bank 200 ft downstream from Cub Branch, 2.1 mi upstream from Trace Fork, 3.0 mi southwest of Panther, and at mile 4.2.

DRAINAGE AREA.--31.0 mi².

PERIOD OF RECORD.--July 1946 to September 1986, October 2002 to current year.

REVISED RECORDS.--WSP 1505: 1955(P). WSP 1908: 1955(M), 1957(M). WDR WV-97-1: 1948(P), 1950(M), 1955(P), 1964-81(P).

GAGE.--Water-stage recorder. Elevation of gage is approximately 1,050 ft above NGVD 29, from topographic map.

REMARKS.--Records good except those for period of estimated daily discharge (faulty gage-height record), which is poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 1	1000	*504	*5.55	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	354	17	127	187	62	259	4.8	2.8	88	2.7
2	11	14	186	16	85	124	281	144	6.9	4.2	16	2.4
3	17	13	92	15	69	81	373	85	6.9	11	8.2	2.3
4	13	56	56	18	53	63	208	57	7.4	12	5.8	2.1
5	10	76	39	40	45	66	123	41	6.1	5.0	4.7	2.0
6	8.0	45	52	60	38	80	80	34	5.1	9.3	4.7	1.9
7	6.5	31	108	64	34	75	60	29	6.2	111	4.2	1.9
8	5.7	22	104	82	33	160	48	25	5.2	115	5.3	1.9
9	5.3	16	124	93	30	168	37	21	14	26	7.1	1.9
10	4.7	14	260	78	43	109	30	23	12	13	4.7	1.8
11	4.4	12	160	63	49	89	27	20	6.9	8.4	3.9	1.8
12	4.1	25	117	65	50	108	27	17	5.6	6.6	3.5	1.8
13	6.8	33	93	68	46	161	28	14	4.8	5.6	3.2	1.7
14	17	30	59	208	58	120	27	15	4.0	5.3	3.0	1.6
15	13	26	41	176	70	80	24	15	3.7	5.5	2.9	1.6
16	11	23	33	112	75	66	22	12	3.5	6.2	2.8	1.6
17	9.0	20	29	73	71	59	21	11	3.1	6.3	3.1	2.3
18	7.6	20	26	50	61	56	20	9.6	2.8	10	3.2	1.9
19	53	19	25	44	48	53	20	9.0	2.7	8.3	32	1.7
20	42	19	20	40	40	47	19	13	2.5	6.7	12	1.7
21	25	20	20	36	51	40	19	11	2.4	5.6	6.1	1.6
22	17	21	18	34	92	35	23	8.8	2.2	5.4	4.6	1.6
23	13	23	21	39	90	43	41	8.4	2.1	6.0	3.9	1.6
24	19	31	20	e36	72	60	76	9.2	2.0	4.6	3.4	1.6
25	25	207	20	42	53	70	88	8.3	1.9	3.9	3.1	1.6
26	21	134	20	52	41	63	74	7.4	1.8	3.6	3.0	1.7
27	39	73	19	78	35	56	57	6.7	1.9	3.6	3.9	2.0
28	64	49	18	80	66	79	41	6.2	2.9	3.4	3.5	1.7
29	44	33	18	90	---	190	101	5.8	2.3	6.5	3.0	2.3
30	30	38	18	259	---	143	277	5.5	2.5	4.1	3.0	2.2
31	22	---	17	202	---	90	---	5.2	---	3.5	2.9	---
TOTAL	580.1	1,160	2,187	2,330	1,625	2,821	2,334	936.1	136.2	428.4	258.7	56.5
MEAN	18.7	38.7	70.5	75.2	58.0	91.0	77.8	30.2	4.54	13.8	8.35	1.88
MAX	64	207	354	259	127	190	373	259	14	115	88	2.7
MIN	4.1	12	17	15	30	35	19	5.2	1.8	2.8	2.8	1.6
CFSM	0.60	1.25	2.28	2.42	1.87	2.94	2.51	0.97	0.15	0.45	0.27	0.06
IN.	0.70	1.39	2.62	2.80	1.95	3.39	2.80	1.12	0.16	0.51	0.31	0.07

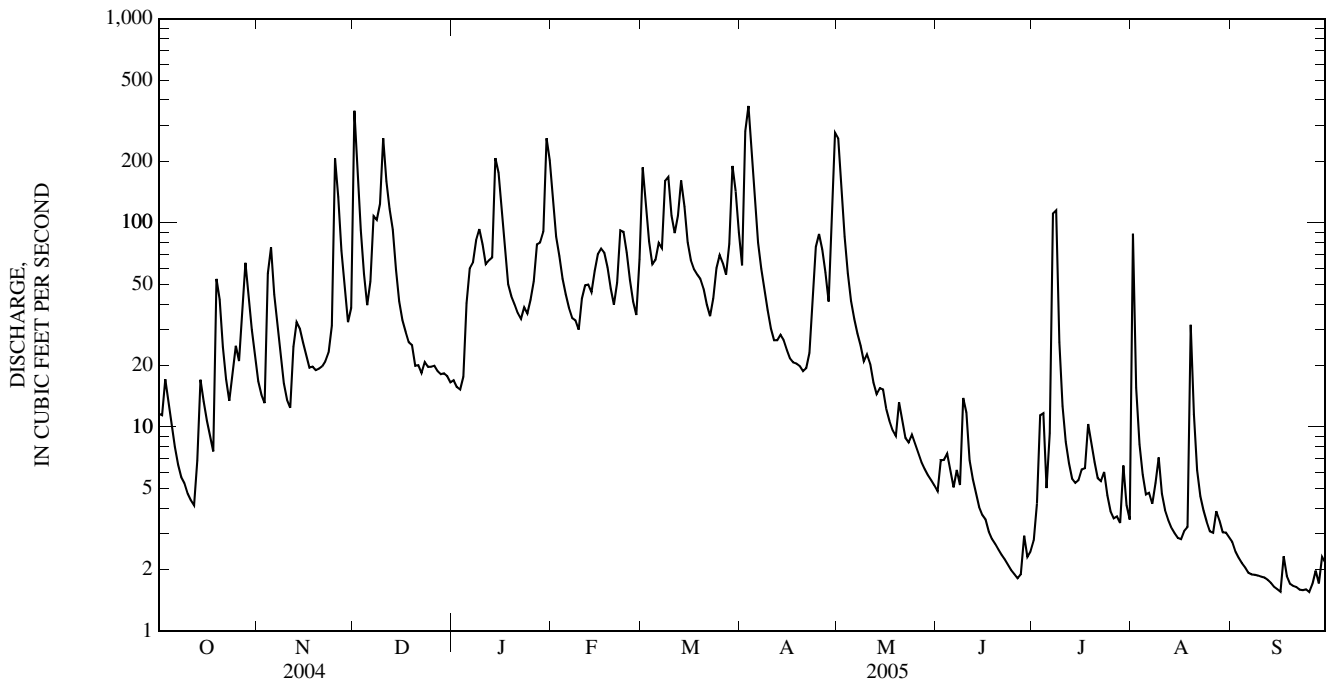
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2005, BY WATER YEAR (WY)

MEAN	7.61	19.6	37.6	56.8	73.6	82.5	68.2	39.0	19.1	10.6	10.8	5.83
MAX	65.7	83.1	115	179	241	280	146	136	127	58.9	72.5	59.6
(WY)	(1977)	(1978)	(1973)	(1957)	(2003)	(1955)	(1948)	(1958)	(1979)	(1956)	(1958)	(1966)
MIN	0.14	0.24	0.65	1.90	9.66	18.3	9.76	6.98	1.31	1.05	0.61	0.18
(WY)	(1954)	(1954)	(1966)	(1966)	(1968)	(1984)	(1986)	(1957)	(1966)	(1959)	(1955)	(1946)

03213500 PANTHER CREEK NEAR PANTHER, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1946 - 2005	
ANNUAL TOTAL	19,774.3		14,853.0		35.3	
ANNUAL MEAN	54.0		40.7		55.8	
HIGHEST ANNUAL MEAN					15.1	1979
LOWEST ANNUAL MEAN					2,300	Apr 4, 1977
HIGHEST DAILY MEAN	772	Apr 14	373	Apr 3	0.00	(b)
LOWEST DAILY MEAN	1.6	Sep 6	1.6	(a)	0.01	Sep 16, 1946
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 1	1.6	Sep 19	(c)14,700	May 2, 2002
MAXIMUM PEAK FLOW			504	Dec 1	(d)16.57	May 2, 2002
MAXIMUM PEAK STAGE			5.55	Dec 1	0.00	(b)
INSTANTANEOUS LOW FLOW			1.4	Sep 25	1.14	
ANNUAL RUNOFF (CFSM)	1.74		1.31		15.46	
ANNUAL RUNOFF (INCHES)	23.73		17.82		80	
10 PERCENT EXCEEDS	128		96		12	
50 PERCENT EXCEEDS	26		20		1.2	
90 PERCENT EXCEEDS	3.3		2.4			

- a Sept. 14-16, 21-25.
- b Several days in September 1946, August and September, 1955.
- c From rating curve extended above 2,800 ft³/s on basis of slope-area measurement.
- d From floodmarks.
- e Estimated.



03213700 TUG FORK AT WILLIAMSON, WV

LOCATION.--Lat 37°40'23", long 82°16'49", NAD 27, Pike County, Ky., Hydrologic Unit 05070201, on left bank at Williamson, 100 ft upstream from bridge on County Route 52/31, 0.8 mi downstream from Pond Creek, and at mile 56.5.

DRAINAGE AREA.--936 mi².

PERIOD OF RECORD.--October 1967 to current year. Gage-height records collected in this vicinity since 1926 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 620.52 ft above NGVD 29. Ohio River Datum is 620.96 ft. Formerly published as 620.90 ft Ohio River Datum 1969 to 1993. Prior to Jan. 21, 1969, at datum 619.66 ft above NGVD 29.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Jan. 30, 1957, Mar. 12, 1963, and Mar. 7, 1967, reached stages of 43.6 ft, 44.5 ft, and 40.7 ft respectively, from readings by National Weather Service.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 10	1600	*8,090	*14.84			No peak greater than base discharge.	

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	672	789	5,010	852	3,260	3,750	2,470	6,460	519	323	510	377
2	555	704	5,440	853	2,560	3,400	3,520	4,600	537	457	721	332
3	584	646	3,050	814	2,280	2,620	7,050	3,180	594	562	417	292
4	581	972	2,060	838	2,140	2,210	5,550	2,400	575	711	316	265
5	506	2,220	1,570	1,490	1,940	2,150	4,010	1,940	570	499	263	250
6	447	1,530	1,450	1,880	1,770	2,580	3,060	1,670	514	412	242	238
7	402	1,150	2,350	1,830	1,600	2,820	2,510	1,490	510	648	241	223
8	377	935	3,210	2,180	1,520	3,320	2,190	1,360	488	3,200	277	212
9	358	781	2,760	2,440	1,460	4,600	1,920	1,230	468	1,550	324	206
10	348	678	6,760	2,140	1,540	3,720	1,690	1,130	502	795	356	202
11	343	622	5,440	1,790	1,580	3,040	1,520	1,100	583	550	295	198
12	335	761	3,940	1,720	1,530	2,900	1,430	1,030	502	436	258	188
13	400	1,030	3,150	1,800	1,510	3,150	1,450	955	452	384	230	177
14	610	1,140	2,470	3,380	1,800	3,250	1,490	1,010	426	362	213	171
15	570	1,020	1,950	4,790	2,400	2,810	1,620	1,270	471	356	199	169
16	544	909	1,630	3,280	2,460	2,430	1,360	1,070	454	384	235	174
17	477	825	1,460	2,450	2,500	2,260	1,220	938	411	503	299	281
18	429	776	1,340	1,880	2,210	2,050	1,150	866	382	598	273	208
19	1,280	811	1,250	1,580	1,910	1,890	1,090	819	363	588	1,940	188
20	1,520	817	1,140	1,490	1,680	1,770	1,040	917	352	504	2,170	170
21	1,070	820	1,030	1,430	2,010	1,630	1,030	890	357	513	868	164
22	847	816	1,030	1,330	3,220	1,500	1,100	790	338	462	563	156
23	765	807	1,090	1,390	3,160	1,600	1,190	735	329	377	430	149
24	725	836	1,250	1,250	2,630	2,220	1,460	735	319	348	365	145
25	786	1,370	1,170	1,260	2,260	2,250	1,570	725	306	309	337	149
26	783	2,460	1,100	1,330	1,900	2,180	1,520	679	299	285	347	158
27	823	1,760	1,030	1,520	1,660	2,000	1,470	640	298	284	401	175
28	1,240	1,410	934	1,650	2,040	2,160	1,310	610	306	298	441	167
29	1,290	1,150	897	1,650	---	3,320	1,440	585	334	338	432	178
30	1,080	1,050	886	2,840	---	3,720	5,600	562	373	504	603	169
31	919	---	855	4,160	---	3,020	---	539	---	389	439	---
TOTAL	21,666	31,595	68,702	59,287	58,530	82,320	65,030	42,925	12,932	17,929	15,005	6,131
MEAN	699	1,053	2,216	1,912	2,090	2,655	2,168	1,385	431	578	484	204
MAX	1,520	2,460	6,760	4,790	3,260	4,600	7,050	6,460	594	3,200	2,170	377
MIN	335	622	855	814	1,460	1,500	1,030	539	298	284	199	145
CFSM	0.75	1.13	2.37	2.04	2.23	2.84	2.32	1.48	0.46	0.62	0.52	0.22
IN.	0.86	1.26	2.73	2.36	2.33	3.27	2.58	1.71	0.51	0.71	0.60	0.24

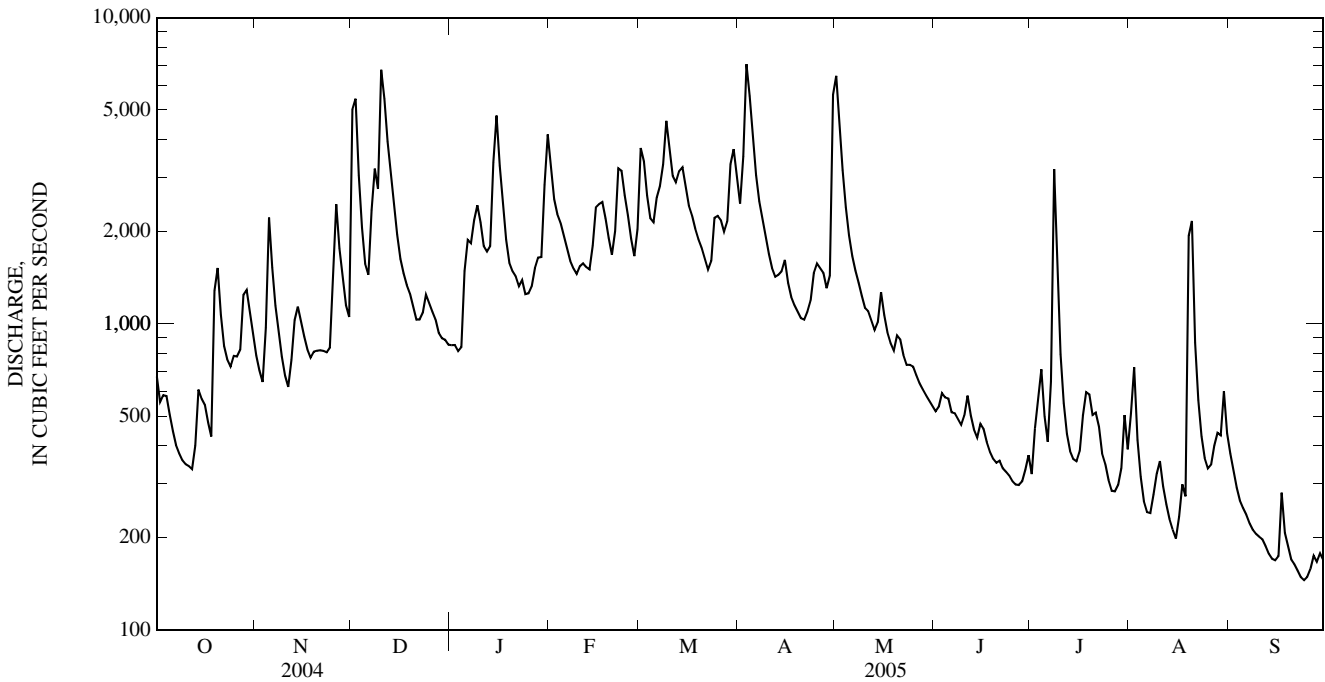
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

MEAN	358	638	1,055	1,590	2,031	2,170	2,061	1,641	927	539	430	281
MAX	2,059	2,363	3,631	4,515	5,198	5,328	5,745	4,318	3,263	1,503	1,419	839
(WY)	(1990)	(1978)	(1973)	(1974)	(2003)	(1975)	(1987)	(1984)	(1979)	(2001)	(1972)	(1989)
MIN	71.7	113	197	279	396	448	506	429	156	119	105	85.7
(WY)	(1970)	(1970)	(2002)	(1981)	(2002)	(1988)	(1986)	(1976)	(1988)	(1988)	(1988)	(1999)

03213700 TUG FORK AT WILLIAMSON, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	606,598		482,052		1,139	
ANNUAL MEAN	1,657		1,321		1,729	
HIGHEST ANNUAL MEAN					353	1979
LOWEST ANNUAL MEAN					1988	
HIGHEST DAILY MEAN	17,600	Apr 14	7,050	Apr 3	74,000	Apr 5, 1977
LOWEST DAILY MEAN	212	Sep 6	145	Sep 24	56	Sep 19, 1999
ANNUAL SEVEN-DAY MINIMUM	240	Sep 1	156	Sep 20	60	Sep 22, 1999
MAXIMUM PEAK FLOW			8,090	Dec 10	(a)94,000	Apr 5, 1977
MAXIMUM PEAK STAGE			14.84	Dec 10	(b)52.56	Apr 5, 1977
INSTANTANEOUS LOW FLOW			143	(c)	52	Sep 27, 1999
ANNUAL RUNOFF (CFSM)	1.77		1.41		1.22	
ANNUAL RUNOFF (INCHES)	24.11		19.16		16.53	
10 PERCENT EXCEEDS	3,580		2,950		2,500	
50 PERCENT EXCEEDS	1,140		938		615	
90 PERCENT EXCEEDS	414		279		142	

a From rating curve extended above 18,000 ft³/s.
 b From floodmarks.
 c Sept. 24, 25.



BIG SANDY RIVER BASIN

03214500 TUG FORK AT KERMIT, WV

LOCATION.--Lat 37°50'14", long 82°24'32", NAD 27, Mingo County, Hydrologic Unit 05070201, behind fire station, at Kermit, 0.8 mi downstream from Wolf Creek, and at mile 34.9.

DRAINAGE AREA.--1,280 mi².

PERIOD OF RECORD.--October 1915 to September 1917, October 1917 to September 1918 (annual maximum discharge), October 1918 to December 1920 (annual maximum gage height), January 1929 to September 1934, October 1934 to September 1985 (estimated annual maximum discharge only), February 1985 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 574.74 ft above NGVD 29. Records published as near Kermit at different site and datum July 1934 to September 1985.

REMARKS.--Records good except those for period of estimated daily discharges (no gage-height record), which is fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of unknown date prior to 1915, was about 46.7 ft; Jan. 29, 1918, was about 38.8 ft; Jan. 30, 1957, was about 45 ft; Mar. 13, 1963, was about 46 ft; Apr. 6, 1977, was 53.7 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 30	1630	*15,300	*25.03	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	981	1,130	6,140	1,160	4,140	5,150	3,300	10,800	601	334	444	535
2	794	987	8,230	1,180	3,330	4,970	4,050	6,840	605	335	784	443
3	729	887	4,740	1,150	2,900	3,760	8,590	4,540	723	613	569	379
4	774	1,460	3,160	1,160	2,710	3,110	7,850	3,390	694	574	403	337
5	690	3,040	2,410	2,340	2,460	2,890	5,460	2,730	641	775	340	314
6	608	2,470	2,100	2,990	2,270	3,030	4,090	2,330	603	485	313	304
7	544	1,850	2,430	2,910	2,080	3,420	3,340	2,060	548	594	368	287
8	503	1,470	3,820	4,150	1,940	4,170	2,910	1,870	552	2,970	330	269
9	478	1,190	3,680	4,250	1,850	5,650	2,550	1,700	523	2,290	351	259
10	458	1,000	7,680	3,460	1,950	4,980	2,260	1,570	532	1,150	397	255
11	447	896	8,120	2,820	1,990	4,050	2,010	1,430	668	765	361	248
12	436	1,130	5,590	2,460	1,930	3,710	1,870	1,340	649	600	314	242
13	486	1,420	4,340	2,410	1,890	3,720	1,850	1,260	542	509	288	247
14	821	1,560	e3,490	3,350	2,140	3,920	1,810	1,410	488	492	272	230
15	755	1,450	e2,890	5,600	2,860	3,530	1,970	1,580	530	505	259	221
16	708	1,290	e2,400	4,330	3,080	3,070	1,720	1,420	489	517	268	219
17	654	1,160	e2,070	3,280	3,150	2,820	1,530	1,230	454	629	413	424
18	577	1,080	e1,860	2,600	2,880	2,570	1,430	1,110	411	956	333	303
19	2,150	1,180	e1,720	2,210	2,520	2,370	1,360	1,050	385	964	4,200	251
20	2,470	1,310	e1,600	2,040	2,260	2,220	1,290	1,560	369	765	3,220	227
21	2,190	1,350	e1,450	1,960	2,480	2,050	1,230	1,310	370	661	1,520	209
22	1,600	1,320	1,370	1,870	4,230	1,880	1,360	1,130	347	929	884	206
23	1,280	1,270	1,490	2,000	4,300	1,890	1,550	1,010	330	586	660	205
24	1,190	1,300	1,670	1,840	3,580	2,660	1,840	982	317	493	528	198
25	1,150	1,480	1,610	1,740	3,070	2,730	2,050	947	308	433	438	196
26	1,120	2,740	1,520	1,840	2,600	2,630	2,010	883	296	389	437	210
27	1,190	2,390	1,410	1,980	2,280	2,460	2,060	818	293	374	1,000	234
28	1,530	1,970	1,280	2,090	2,780	2,660	1,870	767	292	411	776	226
29	1,760	1,640	1,210	2,150	---	3,970	1,920	720	327	389	695	234
30	1,560	1,470	1,180	2,920	---	4,690	11,300	678	359	519	784	246
31	1,320	---	1,140	4,700	---	4,010	---	629	---	493	720	---
TOTAL	31,953	44,890	93,800	80,940	75,650	104,740	88,430	61,094	14,246	22,499	22,669	8,158
MEAN	1,031	1,496	3,026	2,611	2,702	3,379	2,948	1,971	475	726	731	272
MAX	2,470	3,040	8,230	5,600	4,300	5,650	11,300	10,800	723	2,970	4,200	535
MIN	436	887	1,140	1,150	1,850	1,880	1,230	629	292	334	259	196
CFSM	0.81	1.17	2.36	2.04	2.11	2.64	2.30	1.54	0.37	0.57	0.57	0.21
IN.	0.93	1.30	2.73	2.35	2.20	3.04	2.57	1.78	0.41	0.65	0.66	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2005, BY WATER YEAR (WY)

MEAN	387	731	1,384	2,008	2,910	3,423	2,528	1,924	1,048	668	541	334
MAX	3,004	3,062	3,465	4,151	7,049	10,220	7,827	5,056	3,602	1,926	1,504	1,466
(WY)	(1990)	(1930)	(1992)	(1994)	(2003)	(1917)	(1987)	(1996)	(2004)	(2000)	(2000)	(2004)
MIN	21.1	44.1	119	296	512	617	629	431	114	44.5	78.7	29.4
(WY)	(1931)	(1932)	(1931)	(1931)	(2002)	(1988)	(1986)	(1930)	(1930)	(1930)	(1930)	(1930)

03214500 TUG FORK AT KERMIT, WV—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1916 - 2005	
ANNUAL TOTAL	822,095		649,069			
ANNUAL MEAN	2,246		1,778		1,488	
HIGHEST ANNUAL MEAN					2,277 1994	
LOWEST ANNUAL MEAN					476 1988	
HIGHEST DAILY MEAN	23,400	May 31	11,300	Apr 30	*78,000	Apr 5, 1977
LOWEST DAILY MEAN	323	Sep 7	196	Sep 25	14	Oct 23, 1930
ANNUAL SEVEN-DAY MINIMUM	365	Sep 1	207	Sep 20	18	Oct 5, 1930
MAXIMUM PEAK FLOW			15,300	Apr 30	*(a)104,000	Apr 6, 1977
MAXIMUM PEAK STAGE			25.03	Apr 30	*(b)52.91	Apr 6, 1977
INSTANTANEOUS LOW FLOW			192	Sep 25	(c)69	Aug 19, 1988
ANNUAL RUNOFF (CFSM)	1.75		1.39		1.16	
ANNUAL RUNOFF (INCHES)	23.89		18.86		15.79	
10 PERCENT EXCEEDS	4,490		3,780		3,440	
50 PERCENT EXCEEDS	1,520		1,350		732	
90 PERCENT EXCEEDS	576		323		145	

- a From slope-area determination of peak flow.
- b From floodmark, site and datum then in use.
- c Instantaneous low flow prior to 1985, undetermined.
- * Revised value.
- e Estimated.

