

MONTOUR RUN BASIN

03085956 MONTOUR RUN AT SCOTT STATION NEAR IMPERIAL, PA

LOCATION.--Lat 40°27'23", long 80°10'34", Allegheny County, Hydrologic Unit 05030101, on left bank at upstream side of privately owned single span bridge on south side of Montour Run Road, SR3072, 0.3 mi downstream from McCalrens Run, and 0.9 mi upstream from Trout Run.

DRAINAGE AREA.--25.4 mi².

PERIOD OF RECORD.--August 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 850.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 1	1330	1,040	6.25	Aug. 30	0845	*1,200	*6.60
May 10	0900	1,030	6.22				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	11	7.6	356	e8.6	50	17	7.9	35	6.1	16	34
2	4.6	9.3	6.9	109	e8.6	67	14	7.2	16	5.6	11	33
3	5.4	8.3	6.0	93	e16	48	12	6.7	56	5.4	79	27
4	8.3	8.2	6.9	65	e123	53	30	6.4	36	36	30	14
5	13	17	6.5	49	e46	79	96	50	23	18	16	9.5
6	5.0	31	6.5	42	e31	68	43	13	17	7.1	13	7.9
7	4.2	15	e6.8	33	e22	65	108	18	72	27	15	7.0
8	3.8	11	e6.7	e30	e16	72	77	23	113	107	12	6.5
9	3.7	8.9	e6.8	e27	e12	122	54	96	95	37	11	6.2
10	3.7	17	e6.0	e25	e13	64	40	264	35	57	11	5.9
11	5.2	61	e6.0	e23	e12	47	38	63	34	42	9.7	5.5
12	4.7	16	e7.0	e21	e13	44	30	43	44	16	11	5.4
13	13	11	e18	e18	e13	71	24	28	91	11	10	5.4
14	5.5	9.3	e81	e15	e12	56	21	20	29	9.3	8.0	5.5
15	4.7	9.0	56	e13	e11	45	19	18	22	8.7	7.3	16
16	85	32	34	e12	e12	45	16	27	16	13	7.0	8.3
17	20	60	21	e11	e25	43	15	15	71	7.9	7.4	5.7
18	10	23	16	e10	e17	38	14	19	60	8.3	6.5	7.9
19	24	30	22	e9.9	e12	32	12	12	29	8.1	6.1	134
20	12	20	73	e9.7	e14	30	11	42	22	6.8	5.8	22
21	7.9	14	34	e9.0	e19	36	49	52	17	13	5.7	11
22	6.5	17	28	e8.3	e40	28	19	20	14	135	5.6	36
23	5.8	16	22	e8.2	e198	22	14	67	11	119	5.7	40
24	5.3	11	17	e8.2	66	20	11	146	9.8	59	5.3	15
25	25	9.9	52	e8.0	42	18	11	40	8.7	25	5.1	26
26	48	9.2	30	e8.0	32	20	12	29	8.0	17	5.1	12
27	12	10	21	e8.0	27	16	9.6	20	11	26	17	23
28	8.4	8.6	17	e8.4	38	15	8.6	32	7.3	40	7.4	15
29	e44	8.1	15	e8.4	---	22	11	17	6.6	16	5.8	10
30	38	8.2	16	e8.6	---	16	8.3	14	6.3	13	257	8.7
31	18	---	37	e8.8	---	15	---	51	---	12	20	---
TOTAL	459.9	520.0	689.7	1063.5	899.2	1367	844.5	1267.2	1015.7	912.3	632.5	563.4
MEAN	14.8	17.3	22.2	34.3	32.1	44.1	28.1	40.9	33.9	29.4	20.4	18.8
MAX	85	61	81	356	198	122	108	264	113	135	257	134
MIN	3.7	8.1	6.0	8.0	8.6	15	8.3	6.4	6.3	5.4	5.1	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2003, BY WATER YEAR (WY)

	2000	2001	2002	2003	2000	2001	2002	2003	2000	2001	2002	2003
MEAN	13.6	14.6	29.1	26.6	26.3	47.1	37.9	32.5	23.3	15.6	17.3	13.4
MAX	15.7	19.6	36.9	34.3	32.1	49.5	50.9	42.6	33.9	29.4	22.4	18.8
(WY)	2001	2002	2001	2003	2003	2002	2001	2002	2003	2003	2001	2003
MIN	10.2	7.01	22.2	17.4	19.3	44.1	28.2	13.9	15.6	5.58	9.17	9.21
(WY)	2002	2001	2003	2002	2002	2003	2003	2001	2001	2002	2002	2001

e Estimated.

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03085956 MONTOUR RUN AT SCOTT STATION NEAR IMPERIAL, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 2000 - 2003	
ANNUAL TOTAL	8081.2		10234.9			
ANNUAL MEAN	22.1		28.0		24.8	
HIGHEST ANNUAL MEAN					28.0	2003
LOWEST ANNUAL MEAN					22.4	2002
HIGHEST DAILY MEAN	406	Mar 26	356	Jan 1	406	Mar 26 2002
LOWEST DAILY MEAN	2.0	Aug 11	3.7	Oct 9,10	2.0	Aug 11 2002
ANNUAL SEVEN-DAY MINIMUM	2.4	Aug 8	4.3	Oct 6	2.4	Aug 8 2002
MAXIMUM PEAK FLOW			a1200	Aug 30	a2080	Aug 28 2001
MAXIMUM PEAK STAGE			6.60	Aug 30	8.31	Aug 28 2001
INSTANTANEOUS LOW FLOW			3.6	Oct 8-10	1.8	Aug 12 2002
10 PERCENT EXCEEDS	48		63		53	
50 PERCENT EXCEEDS	12		16		12	
90 PERCENT EXCEEDS	3.0		6.3		4.1	

a From rating curve extended above 850 ft³/s.

