

Water-Data Report 2011

0158397967 MINEBANK RUN NEAR GLEN ARM, MD

Upper Chesapeake Basin
Gunpowder-Patapsco Subbasin

LOCATION.--Lat 39°24'36", long 76°33'23" referenced to North American Datum of 1927, Baltimore County, MD, Hydrologic Unit 02060003, on left bank 0.25 mi upstream from Sherwood Bridge in Cromwell Valley Park, 0.9 mi upstream from mouth, 1.6 mi northwest of Carney, and 4.5 mi southwest of Glen Arm.

DRAINAGE AREA.--2.06 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 216.12 ft above North American Vertical Datum of 1988, from digital elevation model.

REMARKS.--Records good except for those above 150 ft³/s, which are fair, and those for estimated daily discharges (ice effect, missing record), which are poor. U.S. Geological Survey satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 14	Unknown	*1,070	*8.19
Sep 7	1250	945	7.97

Minimum discharge, 0.24 ft³/s, July 27.

0158397967 MINEBANK RUN NEAR GLEN ARM, MD—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2002 - 2011	
Annual total	1,137.35	1,316.09		
Annual mean	3.12	3.61	2.98	
Highest annual mean			4.34	2004
Lowest annual mean			1.15	2002
Highest daily mean	91	Sep 30	89	Mar 10
Lowest daily mean	0.29	Sep 21	0.36	Aug 12
Annual seven-day minimum	0.36	Sep 18	0.51	Jul 26
Maximum peak flow			1,070	Aug 14
Maximum peak stage			8.19	Aug 14
Instantaneous low flow			0.24	Jul 27
Annual runoff (cfsm)	1.51	1.75		1.45
Annual runoff (inches)	20.54	23.77		19.67
10 percent exceeds	6.1	6.1		5.6
50 percent exceeds	1.8	1.4		1.4
90 percent exceeds	0.63	0.80		0.50

^e Estimated.^a Aug. 17-23, Sept. 22, 24, 2002.^b From rating curve extended above 100 ft³/s on basis of slope-area measurement at gage height of 8.61 ft.