

Internal Only[01589330 DEAD RUN AT FRANKLINTOWN,
MD](#)

Responsible Office
 U.S. Geological Survey
BALTIMORE
 8987 Yellow Brick Road
 Baltimore, MD 21237
 410-238-4200

Station Description

Most recent revision: 3/22/2007**Revised by:** rwsaffer

LOCATION.--Lat 39°18'40.4", long 76°42'59.9" referenced to North American Datum of 1983, Baltimore County, MD, Hydrologic Unit 02060003, on right bank at downstream side of bridge on Colonial Road at Security Boulevard at Franklinton, 0.3 mi west of Baltimore City limits, and 1.2 mi southwest of Woodlawn, and 2.5 mi upstream from mouth.

ROAD LOG.--Station can be reached from the intersection of Baltimore Beltway, I-695 and Security Boulevard: Drive east approximately 1.6 miles on Security Blvd., turn left at Colonial Road/Kernan Drive. Gage is on the right.

See map for route to gage.

DRAINAGE AREA.--5.52 mi².

ESTABLISHMENT AND HISTORY.--Gage established September 1959. Discontinued September 1987. Re-established July 1998. No other continuous-record gaging station has been operated at this site by the U.S.G.S.

GAGE.--Datum of gage is 310 feet above National Geodetic Vertical Datum of 1929 (NGVD), from topographic map.

42" diameter corrugated steel house and well set in concrete. Intakes are two 2-inch galvanized couplings set in side of well; near the low-water line the upstream side of the well is also open to the stream. Ladder bolted to inside of well. No flushing system; no well access door.

Pertinent elevations:

Gage Height (feet)

Floor of well	- 0.4
Top of lower intake	0.8
Top of upper intake	2.5
Door sill	7.2
Top of instrument shelf	9.3
Eave of house	11.8

CONTROL.--The channel above the gage is straight for about 150 ft then curves to left; below gage it is straight for about 100 ft then bends left. Both banks are covered with brush and trees and are not subject to overflow at gage except during extremely high flows. Streambed composed of sand and gravel and small rocks.

Low stage control is three-notch concrete weir. At medium and high stages channel is control; at medium stage the condition may be variable.

DISCHARGE MEASUREMENTS.--Good wading measurements can be made approximately 100 ft downstream up to gage heights of about 2.0 feet. For higher stages good measurements can be made from upstream side of bridge at gage. Bridge span is approximately 40 feet. Good measurements should be obtained at all stages.

FLOODS.--Flood of June 22, 1972 reached a stage of 12.5 feet, gage datum, with a discharge of 7,400 cfs.

POINT OF ZERO FLOW.--0.47 ft, by levels, in notch nearest gage house.

WINTER FLOW.--Well freezes very easily. No ice effect on the stage-discharge relationship has been observed as long as the weir remains open.

ACCURACY.--Good records should be obtained.

COOPERATION.--Baltimore County Department of Environmental Protection and Resource Management.

REFERENCE MARKS.--

RM = Reference Mark RP = Reference Point

RM-1 (1960, Basic) Chiseled square at downstream side of bridge at base of third railing post from right end. Elevation 11.282 ft, gage datum. Destroyed.

RM-2 (1960) Chiseled square on upstream streamward corner of storm drain headwall on left bank. Elevation 5.091 ft, gage datum. Nearly buried -- discontinued.

RM-3 (1969) Top of bolt on downstream side of fire hydrant on N.W. corner at Security Blvd. Elevation 13.452 ft, gage datum. (Mark slowly sinking over time -- do not use!)

RM-4 (1979, Basic) Chiseled square on downstream shoreward corner of lower concrete wingwall, 5 feet shoreward from gage. Elevation 8.291 ft, gage datum.

RM-5 (1962) Chiseled square on upstream, streamward corner of culvert headwall on right bank, just downstream from gage. Elevation 6.646 ft, gage datum. (Mark is sinking over time -- do not use!)

RM-6 (1985) Chiseled square on left downstream head wall of bridge, near centerline but on streamward side. Elevation 7.716 ft, gage datum.

RM-7 (2004) Top of top streamward bolt on guardrail bracket on upstream side of bridge, at left bank, at junction of bridge wall and guardrail. Elevation 12.372 ft, gage datum.

PHOTOGRAPHS.--See station files.

DESCRIPTION OF EQUIPMENT.--Sutron 8400 digital data recorder (5 min. log interval) with stage kit using steel tape and splines. Telemeter via cellular telephone signal on separate power supply, from solar panel and 26-amp-hr battery.

Outside gages are vertical enameled staff sections (0 to 3.34 ft, 3.34 to 8.68 ft) attached to 2" x 6" pressure treated lumber, bolted to the downstream side of the well.

Standard USGS crest-stage gage on left bank.

CSG base cap	3.07	
Maximum recordable stage		+/-9.00
Top of CSG stick	13.07	

DATE OF LAST LEVELS.--

Last run: Jun 23, 2004; Next run: Jun 23, 2007; Frequency: 3 years

RM-4 used as basic in latest set of levels.

See sketch for relative location of vertical controls.

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