

on Nos. 4 and 5. No. 6 was found to be however so much affected by the operations of the Triadelphia Factory, the dam of which was situated about half a mile above it, as not to justify any great confidence in its results. All the dams were more or less subject to this kind of influence but none so much or so distinctly so as No. 6. No. 7 was erected to obtain some idea of the residue of water applicable to secondary purposes.

The guagings on the Seneca Valley were made by another assistant with the same care and pursuing the same means of measurement. The measurements of the streams connected with the Linganore route, being made by the same gentleman prevented him from making the same number of observations on the Seneca as were made on the Patuxent.

TABLE OF GUAGINGS.

Referring now to the following table which embodies such of the results of these measurements as are applicable to the Brookville route, we observe that the Nos. 4, 5, 6, 7, there correspond with the numbers referred to in the above mentioned document (W.) of details appended. Nos. 8 and 9 exhibit the results of guagings on the Seneca Valley. The measurements of No. 8 were deduced from a dam erected on the Seneca immediately below the entrance of the Wild Cat Branch and corresponding with the position of the reservoir dam there. The measurements of No. 9 were derived from a dam on the Goshen Branch, situated about half a mile below the position of the proposed Goshen Reservoir.

TABLE
Of guagings for the Brookville Route.

Date—1838.	DISCHARGE IN CUBIC FEET PER MINUTE.					
	Patuxent Riv- er above Cat- tail Branch. Dam No. 4	Cat-tail Bran D. No. 5.	Patuxent Riv. at Triadelphia Dam No. 6	Patuxent Riv. below Hawk- ings River. Dam No. 7	Seneca River below Wild Cat Branch. D. No. 8.	Goshen Bran. D. No. 9.
August 10,			3502.64			
11,						
12,						
13,			1797.60	2278.80		
14,			1697.90	1791.36		
15,			1602.44	1740.00		
16,			1793.04	2243.88		
17,	1205.58		2891.98	4176.00		
18,	973.38		1343.52	2357.04		