SENECA SECONDARY FEEDER.

At the mouth of the Whetstone Branch and at the point forming the western extremity of the summit pass (marked A.) the feeder of secondary supply from the Seneca, enters. This feeder crosses the Whetstone Branch, with an embankment of 14 feet in depth; it then follows up the East slope of the Seneca terminating below the junction of Cabin Branch. Its length is 0.909 miles. With a reservoir here for the secondary supply a depth of water at this point of 25 feet would be necessary. The length of the dam would be about 800 ft. The waters would be thrown back on the Seneca upwards of 9000 ft. and on the Cabin Branch 4000 feet. The country draining into this reservoir, and not including of course any of the country which has already been estimated as draining into the upper or summit reservoir embraces 11.068 square miles. Were another reservoir and dam located immediately below the entrance of the Long Draught Branch on the Seneca, and likewise for the secondary supplies, it would embrace a further extent of country (distinct) of 20.18 square miles. The mouth of the Long Draught Branch is distant about 4.44 miles below the mouth of the Whetstone Branch.

HAWLINGS RIVER SECONDARY FEEDER.

At the eastern extremity of the summit pass near the mouth of Hawlings River (marked D. on the maps) the feeder of secondary supply from the Hawling's River, enters. This feeder crosses the Hawlings River above the point of entrance and follows the North slope of the valley to Pearce's farm where it terminates, and the dam is located for the proposed secondary reservoir. The length of this feeder is 1.158 miles. The depth of water required here is 25 feet, the length of dam about 550 feet. The length of reservoir about 11.000 feet. The country drained into this reservoir 12.204 square miles.

PATUXENT SECONDARY FEEDER.

From the same point of entrance of this feeder D. a feeder should extend to the Patuxent River, but the necessity for our leaving the field in season to prepare the maps &c. previous to the meeting of the Legislature prevented our making a survey of this feeder and reservoir.

Judging from the general fall of the river here the feeder would extend to about 1 5 miles in length. The height of dam and length of reservoir cannot be given, but it cannot differ much from that on the Hawlings River. The extent of country drained amounts to about 12.666 square miles.

All these reservoirs with the extents of ground which they would respectively occupy will be found delineated on the map.

ADDITIONAL SUPPLIES FROM MINOR BRANCHES.

For the supply of the summit pass or for the primary supply a considerable quantity of water might be collected from small branches not yet mentioned, but which we shall now merely indicate. Of these