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**MEDICAL BRANCH**  
AMERICAN ARMYThe Hospital Trains in France  
and the Vast Consumption  
of Medical Supplies.

General Headquarters, American Expeditionary Forces, Nov. 27.—(Correspondence of the Associated Press)—A vast expansion of the medical service of the American army in France was projected before the armistice was signed, but the plan was suspended when hostilities were stopped. In addition to the 25,240 beds then ready for use in camps and hospitals 423,722 normal beds and 541,239 expansion beds were in process of construction or procurement in preparation for expected campaigns.

Twenty-one American hospital trains and twenty borrowed French hospital trains were in operation while 23 more hospital trains and 20 so-called "sitting trains" were under construction. The consumption of medical supplies runs into big figures, for there has been no stint nor economy of such material. Bandages have been issued to a total of 24,424,000, besides 10,500,200 yards of yard wide gauze. In addition have been issued one million ounces of absorbent cotton, 1,500,000 first aid packets, in addition to the original issue to each man and of foot powder, the soldier's best friend on the march or in the wet, 1,548,000 pounds. There are only some of the medical supplies. Pins and safety pins, sutures and iodine swabs run into the millions, soap, ether, carbol, and other chemicals are totalled in hundreds of thousands of pounds.

The medical department has paid probably more than its proportion in casualties. The roll of killed and wounded in doctors and nurses and other branches of the corps is a long one, testifying to the devotion and bravery of these non-combatants.

**COAL PRODUCTION.**

Ottawa, Jan. 2.—The Department of Mines estimates the production of coal during 1918 at about 15,180,000 short tons, as compared with a production of 14,046,759 short tons during 1917. The total value of the mineral production in Canada during 1918 was probably not less than \$220,000,000. The total value of the production in 1917 was \$189,646,821.

**Water Power Possibilities**  
In Neighborhood NewcastleReport of Light and Water Committee of Newcastle Council  
on the Cost of Transmission of Power from Various  
Streams in Proximity to the Town.

Newcastle, Jan. 1.—A special meeting of Newcastle Town Council was held last evening for the purpose of hearing the report of the engineers on the question of utilizing the streams in the vicinity of Newcastle for power purposes. Mayor Troy presided and Aldrs. Crocker, Doyle, Macle, J. Russell and Stuart were present.

A communication from Mr. B. Cohen for a license to sell horses in Newcastle was granted for the sum of \$50.00.

Ald. Crocker, of the Light and Water Committee, then read the following report:

In accordance with our agreement with the Town Council we spent the days, Aug. 20th and 21st, inclusive, investigating the water power possibilities of certain streams in the neighborhood of Newcastle.

The streams investigated were Seville River, Mill Brook Stream, and the Bartibog River. These may be seen by referring to the accompanying print.

The Seville River.

This river, which is a branch of the North West Miramichi River, is itself divided into two main branches, the North branch and the South branch. These branches come together at the point known as the Square Fork. The Seville above this point has a drainage area of approximately 275 square miles. The country through which it flows is rugged, and two-covered road will in all probability remain in this condition as it is not suitable for cultivation. This is an important factor in the consideration of the river for power purposes, as it ensures a constant supply of water for the maintenance of flood conditions in the river, very much as they are at the present time.

We were very fortunate in being able to visit the river towards the end of a dry period, when the water, in the evidence of those who have spent their lives on the river, was at its lowest stage.

The first point visited was the Square Fork. At a favorable spot below the Fork, sections of the river were taken and the speed of the river ascertained by means of floats. This was repeated several times and the average taken. From the figures obtained it was found that there were 225 c.f.s. (cubic feet per second) of water flowing in the river on that date (Aug. 26th).

As 500 horse-power had been spoken of as a possible site, the basis of our figuring.

Using a head of 30 feet, which would be obtained with a 30-foot dam, 542 h. p. would be delivered in Newcastle, provided that a flow of 225 c.f.s. was maintained.

A dam of 30 feet will be assumed to allow for a slight drop in flow.

At the Fork, the best location for a dam was found to be a few hundred feet downstream from the Fork, just at the head of the rapid water. At this point the river is 125 feet above the bank. The walls on either side rise at an angle of about 70 degrees to the vertical, thus making the crest of the dam not excessive in length. The river bottom and banks at this point are of solid rock, free from boulders, and therefore very favorable for the erection of a dam of concrete.

Levels taken downstream from this point show a fall in the stream of 10 feet in about 2,000 feet. This fall might be utilized by means of a pipe line from the dam to the power house, which might be placed at the end of the rapid water. This plan is not recommended for this case, as sufficient head can easily be obtained at the dam and the cost of a pipe line would be greater than building a dam to give equal head.

From the dam site levels were taken up each branch of the river to find out how far upstream the rivers would be flooded by building a 30-foot dam below the Fork. It was found that the back water from the dam would extend up the North Branch about 2,500 feet above reaching to the crest of the Falls in the North Branch. In other words, the Falls would be practically obliterated.

The South Branch does not rise as rapidly as the North Branch, there being no falls on it, so that the back water would extend back in the neighborhood of 5,000 feet. This would create a pond in the North Branch, practically one-half a mile long, and in the South Branch a corresponding pond nearly a mile long. Where these ponds united at the Fork, the fishing lodge on the point would be submerged, and some land back of it and on either side. We estimate, roughly, that including the present river bed, an area of approximately 200 acres of ground might be submerged.

The next point investigated was that marked No. 2 in the plan, namely, Ledden's Landing, 1 1/2 miles downstream from the Fork. This point is similar to that at the Fork, in that the banks are high and steep and of solid rock.

At this point the river is 100 feet wide, bank to bank, and all conditions are equally as favorable for the erection of a dam as at the Fork. There are a number of added advantages in favor of Ledden's Landing, which will be stated briefly. The dam would be shorter at Ledden's Landing and therefore cheaper. There is a better opportunity for the building of a power house, as below the dam the river widens, giving an opportunity for the water to get away more rapidly in flood periods, with less danger of flooding the power house. Less excavation in rock would be required in the erection of a power house.

Levels taken upstream showed that the back water would extend about 5,500 feet upstream from the dam, or about to the foot of Crooked Rapids, below the Forks. This would provide a pondage of approximately 150 acres.

There is one stream entering the Seville a short distance upstream from the dam. This stream would be

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NOVA SCOTIAW. S. THOMAS  
Manager Fredericton Branch**MURDER VERDICT**  
BY ST. JOHN JURY

Three Sailors Held on Suspicion of Killing Comrade by Cutting Throat.

St. John, N. B., Jan. 3.—Murder was the verdict of the coroner's jury last night in the case of Soudah Hassan, an East Indian stoker on the steamer Manchester Brigade, who was found with his throat cut on Courtenay Hill, West St. John, Sunday morning. While not directly charging them with the murder, the jury recommended the holding of the three members of the crew for examination. These were Sutan Rasal, nephew of the dead man; Abdul Abduman, another East Indian, and John Stirling, a colored fireman. Robert, it is suspected, was the motive for the alleged murder.

**SUBSCRIPTION PRICE**

AFTER FEBRUARY 1st

On and after February 1st, 1919, the subscription price of The Daily Gleaner will be \$4.00 per year mailed to all points outside the city of Fredericton (but within the postal union). This increase has been made necessary by the steady and constant advance the cost of everything entering into the production of a newspaper. All subscriptions expiring previous to February 1st will be renewed at the old rate.

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