

than anything that has been met with in the history of phosphate mining in the district. A hitherto undiscovered deposit of mineral has recently been uncovered on this property and has been partially opened up, and its further development will unquestionably add to the value of what is already a very valuable property. The "Little Rapids" mine will certainly be one of the large producers of the future. Each of the other mines above mentioned continue to yield an average daily output about as reported last month, and the superintendent of the Dominion Phosphate Company reports satisfactory progress at the company's "Washington" mine in Buckingham Township. In short nothing could be more encouraging than the reports received from the mines during the month. Mine owners have reason to be satisfied with the result of the year's operations, for, although prices have not ruled as high this season as they might have wished, the low rate for ocean freights at the opening of navigation, and for the past few weeks, has enabled shippers of phosphate to realize \$17 to \$18 per ton at Buckingham station, equivalent to one hundred per cent. profit all round on the cost of mining and transportation to that point.

The shipments of phosphate from the Perth and Kingston districts show a slight falling off from former years, and will probably not aggregate more than 2,500 tons, of which Capt. R. C. Adams' "Otty Lake" mine, in the Township of Burgess, has contributed about 800 tons.

The prospects for next year are very bright for Canada's phosphate industry. Many valuable properties in the County of Ottawa have been prospected during the past few months and their owners are making preparations for permanent mining in which they are justified by the flattering reports forwarded to them by their prospectors. It is not improbable also that before next year's output begins to move a large amount of foreign capital will have been invested in this industry. Our phosphate deposits are attracting the attention of English, European and American capitalists and hardly a day passes that does not record the arrival of some foreigner in our phosphate district, the object of whose mission is to thoroughly investigate with a view to acquiring mining rights. Numerous letters have

been received at this office from abroad asking for information concerning our phosphate deposits, and if property owners who have not the means to engage in mining will be but reasonable in their demand, there is no reason why a very large amount of foreign capital should not be available for the more rapid development of the phosphate industry. The following extracts from a report of Major Edward Willis, of Charleston, on this industry in South Carolina, which has appeared in the *N. Y. Mining Record* will serve to give our readers some idea of the magnitude and importance it is possible for phosphate mining to attain in the hands of an enterprising people.

"The importance of the phosphate business to Charleston cannot easily be overestimated. It has grown to such proportions that it has been felt necessary by the miners to form an exchange for the better regulation of the business. As an outcome of this feeling, the Phosphate Miners' Exchange was formed in March last, all of the miners of land rock in this vicinity, with unimportant exceptions, being members, and the plan has worked very satisfactorily.

The following table shows the value of the phosphate business, the shipments and consumption in the year just closed (September 1st), as compared with the preceding year, this year's being the largest on record and representing at the rate of \$6.50 a ton, a gross sum of \$2,659,169 for 1883-84.

	1882-83	1883-84
Shipments, foreign and coast-wise, from	Tons.	Tons.
Charleston, and by rail.	157,714	183,611
Shipments from Beaufort .....	158,754	127,600
Total tons.....	355,468	310,911
Consumed by local manufacturers.....	53,635	42,620
Grand total tons....	409,103	352,631
<i>Phosphate Stock.</i>		
	Bid.	Offered.
Atlantic-Phosphate Company Stock, par \$100	125.00	130.00
Stone " " "	150.00	155.00
Edisto " " "	70.00	75.00
Edisto " " "	38.00	38.50
Wando " " "	95.00	98.00
Charleston Mining and Manufacturing Co. par \$100.....	165.00	170.00

#### Phosphate Quotations.

Latest advices quote Canadian phosphate in the English market at 1s. 1/2d. for 75 per cent. with a fifth of a penny rise. At this season of the year no advance is looked for over this price.

#### FREIGHTS.

Shippers of phosphate have secured tonnage during the past month at nominal rates. Ship owners have been offering as low as 1s. 6d. by steamer to London and Liverpool, and some contract were made at 3s. 6d. per ton to each of these ports. Unfortunately a large portion of the year's output had gone forward at much higher rates during the summer.

#### A NEW INDUSTRY

##### IN CONNECTION WITH OUR PHOSPHATE TRADE

For the past year or more the feasibility and practicability of shipping the output of our phosphate mines, or a portion of it, in a ground state has been discussed, and it is apparent that this can be done to advantage from the fact that, after thorough investigation, two parties of American capitalists, who are each of them interested in phosphate mining in the du Lievre district, have simultaneously decided to engage in this new industry of grinding the phosphate rock, and for this purpose are now making the necessary preparations. The Union Phosphate Company have purchased a small mill on the du Lievre River, immediately south of the C.P.R. crossing at Buckingham, which they are fitting up with suitable machinery. Mr. G. H. Bacon, now of Ottawa, associated with some gentlemen of Boston and Charlestown, S. C., has leased some ground with the water privileges, known as the Bang's property, also to the south of the railway crossing of the du Lievre, and will engage extensively in this business. This venture, if it proves a success, should stimulate the phosphate mining industry, and doubtless it will, as it is the intention to utilize the low grade of rock for which there is at present no market in its unground state. The output of the mines situated in Templeton and Wakefield can be delivered in barges at a point near the mills.

#### A MONSTER CRYSTAL.

A phosphate crystal weighing eight hundred pounds has been presented to Mr. W. A. Allan, of this city, by the owners of the famous "Emerald" mine. It is a rare specimen and is the largest phosphate crystal known to have been discovered in Canada. Mr. Allan has had it placed in our office, where it may be seen by those who take an interest in such curiosities.

The Ontario silver mine, Utah, has shipped bullion amounting in value to \$1,128,067.64 during the twelve months ending August 31st. The receipts of bullion at Salt Lake City for the first eight months of the present year have amounted to \$3,647,332.48.

#### Distinguished Visitors

—AT—

##### OUR PHOSPHATE MINES.

Prof. W. BOYD DAWKINS, of Owens College, Manchester, England; WILLIAM TOPLEY Esq., of the Geological Survey of England, and H. BAUERMAN Esq., Royal School of Mines, both of London, England, visited the "Little Rapids" and the "Emerald" mines, and were very favourably impressed with the fine display of high grade mineral which met their eye in the bins and in the mines. These gentlemen are members of the British Association for the Advancement of Science, and it is fortunate that they were enabled to find an opportunity to examine these properties before returning to England. Prof. Dawkins has expressed himself, not only much interested by what he saw, but very much pleased, as well, to find that Canada possesses such extensive deposits of so valuable a mineral. His opinion, based chiefly on what he saw at the "Little Rapids" mine, is that mining has not yet reached a depth at which even much larger bodies of phosphate than what he saw might reasonably be looked for. Prof. Dawkins is one of England's greatest geologists and much value and importance is attached to his opinions, by the people of England, on all matters relating to geology and practical mining. That he should have formed so favourable an opinion of the prospects for the future of our phosphate mining industry is most gratifying to those engaged in it. In his trip to the mines Prof. Dawkins was accompanied by Dr. J. A. Grant and Mr. W. A. Allan, of Ottawa.

#### Ottawa Colonization Railway.

##### The "Short Line" to be Built.

The construction of this railway has been, for the past two years, a subject of much interest to the phosphate mine owners in the du Lievre district, and, although the holders of the charter have repeatedly asserted that work was to be at once begun on the line, up to the present moment not a sod has been turned. It was at one time supposed that the President of the company had overcome all monetary difficulties when he induced a party of American capitalists to take up this enterprise, together with the construction of the Gati-neau Valley Railway. Shortly after this was accomplished the company started grading northward on the last mentioned road, and after a few miles had been graded operations were suspended. Since then there appears to have been a mystery hanging over the movements of those who are behind the scenes. When it was found that the coa-