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THURSDAY APR. 3rd 1902.

ARTIFICIAL ICE.

The following is a clipping from paper published in Riverside,

The senior class in physics at High school enjoyed a tour of pection of the ice factory yester-y afternoon. The class is intered in the study of heat and Prosor Zumbro thought to give ma practical illustration of this se of the study. The class was I received at the factory, and structed by Mr. Zumbro, explorl all the workings of the business. hese are some of the things they rned:

the ice is frozen in large tanks means of a heavy brine cooled ammonia. The ammonia is reved in the form of a gas. It is inped into a compressor and by cans of a force pump is put under pressure 150 pounds to the square h. It is too hot at this stage to ndense to a liquid and it is run om the compressor through about 000 feet of small pipe, over which i. i constant flow of water. From e condensor it flows to the tanks. i.ere by means of a small valve the juid ammonia is allowed to exand into about a thousand feet of at 15 pounds and changes from a liquid into the form of gas again. he coil of pipe through which this amona gas flows is completely evered by the heavy brine surreal change of the ammonia from a quid to a gas, absorbs all the heat on the salt water. But the freezing int of salt water is much lower an that of pure water and the rane reaches a temperature low ough to freeze the pure water in 1 e tanks which it surrounds From The tanks the ammonia flows back the compressor again and thus is

There are six of these large tanks the factory. Each tank is divided into sixteen compartments and ach compartment yields 1200 ounds of ice. It takes about 72 I urs to freeze a tank of the water. reartesian water is used. The ine used is made of water which ntains all the salt it will dissolve.
The company have their large : fore rooms almost full of ice and re preparing to meet the summer emand, having about 8000 tons of ite now in storage.

ed over and over again.

I OW TO MAINTAIN SOIL FERTILITY

"We all know that it is very de-: rable to have a fertile soil in which to grow creps", says F. P. Jeck of Michigan, For success in rming depends largely on the r ility of the land. Every one nows of many, once fertile farms · nich are not now producing half what they should—scarcely enough pay for the labor necessary to produce a crop. It is more profit-: le to farm so as to maintain or aprove the soil than it is to rob me soil of its fertility, and in the . d bring ruin to the owner of the Latin."

llow is this to be done? I beleve our greatest loss of fertility a rotation of crops, and one crop in the loss of humus. A soil without humus will not carry a crop the rotation should be clover which (Continued in next issue)

Subscribe for The Leder

Miscellaneous

OST-A Coon mitt. Finder will please return to The Leader

Farm for Sale or To Rent

The farm is situated near Eastmans Springs.

Lot no. 6 in the 6th concession and the north quarter of Lot number 6 in the 7th cons. of Gloucester.

The buildings are good. They designs for consist of Dwelling, Barn, Stables and Grainery There is also a good well on the place. For further information apply to ROBERT KYLE, North Winchester

For Sale!

Ten choice S H Bulls year olds and under fancy pedigrees and all registered, These Ball were bought in Western Ontario a month ago, Prices reasonable considering quality. Intending purchaser shald come at once. D. P. McPhail & Son

maker. Apply to G. W. Marquette, Marvelville.

OST-A baby's shoe. Finder please leave at the Leader Office, Mill Street.

TO RENT

Store an I Post Office at Felton. school, blacksmith shop and cheese factory. I acre of land in orchard goes with the store. Out buildings good. Apply to Mrs. Josh Annable Sr., Felton, Ont.



HORSEMEN!

When you are ready to order your printing call at the Leader Office. We are prepared to turn out work neatly and promptly. We charge Ottawa prices.

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And well-known watchmaker of Embrun, will open a branch office in Russell, next door to the Russell House.

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repair. d. ENR AVING.

A good stock of Jewellry always on hand.

Best quality of Watches and Clocks for sale.

LAPINE. H.

farm so as to produce and leave as There are two good wells. much humus in the ground as possible. This is best accomplished by

NEW GOODS NEW PRICES

It consists of the west half of Just Arrived,

Our new Spring Stock of Dry Goods consisting of all the latest

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1 Case Prints, Good Pattern 6 to 10

1 Case Mercerized Satteens 15 to 25

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Shirts in white and Colors, ties, A good business stand, close to Collars, Cuffs, large stock to select

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Great sweeps in prints and ginghams. Ladies Spring Suits and Jacke's all going below cost in order to moke room. Do not miss this opportunity and satisfy yourself by getting a good bar

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For Sale.

Farm for Sale

The last quarter of lot 2 in the th con. of Russell containing 64 acres. This farm has good buildings all new It will be sold reasonable if sold soon. For particulars apply to John Wagner, Morewood Ont.

Farm for Sale.

A desirable property on the banks of the Castor in the township of Russell, one mile from Russell Station on the O & N Y R It and three-quarter of a mile from the thriving Village of Russell; heing composed of N. pt. Lot 10 in the clay soil devoid of humus will be 4th concession; containing 120 lumpy and hard, and will not re- acres more or less. There are thirtain moisture for very long. We all ty acres hardwood bush; balance know the effect on a crop, and the under cultivation. Good frame great amount of labor required to prepare such a piece of ground for shed attached. Good frame Barn, a crop. Hence our aim should be to Stables and other out-buildings.

For further particulars apply to Mrs. Walter Loucks, Russell P. O.

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Those who intenderecting Buildings this Season will find it to their advantage to call upon us and get our prices upon lumber and other supplies. We buy direct from headquarters and are in a position to quote the very lowest rock bottom prices upon all

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