The Silurian Area

There is an old saying that 'A lime stone country is a rich country." If this be true, the Silurian area of New Brunswick is a desirable location, for its soil is composed principally of the debris of calcareous slates. The deposits are often deep, especially in the interior and fairly free trom boulders, except, in places where the slates are crossed by dykes of eruptive rocks producing in trusive boulders.

The land of this area is somewhat higher than the rest of the province and has a rolling surface-well-drained by numerous streams, the tributaries of rivers too well known to mention. It is the best farming land in the province and there are large portions yet unset tled. The International and Grand Trunk Railways have opened up part of this wilderness region and the number of ap plications for farms is evidence of the re putation of the soil.

The rocks of the whole area contain more or less lime and in some places enough for industrial purposes for ex ample. that belt of of territory extend ing from the North Branch of the Bec caguimac northward through Windsor and Glassville. There was a consider able industry in that district at one time for the production of commercial

The soil owes its fertility not so much to the presence of ordinary limestone as to the phosphates of lime from the de posits of shells of the life of the Silur ian period, and since most soil has a very limited supply of phosphorons the richness of this land is at once appar

Ordinary lime is not a fertilizer in the sense of supplying plant food but it is beneficial by neutralizing the acids form ed from decaying organic matter that re tard plant growth by destroying the bac teria of nitrification that changes the insoluble organic nitrogen into available plant food. The question of applying ime to soil and the best form to use opens a wide discussion and ought to be taken up as a separate topic.

The soil is deprived of its lime by the action of carbonic acid formed from the carbon di oxide of the air and water which acting on lime produces the solu ble acid salt so common in hard water. This process is no doubt hastened by cul tivation as well as the depletion by the crops raised so it does not follow that the soil of a region rich in lime is suffic ently supplied after a lapse of time.

There is another important feature of this soil that is the large number of hardwood trees it produces as compared with other areas. The hardwood ridges have the best soil due in no small mea sure to the rich mould formed by the de cay of leaves year after year so the orl ginal soil is well supplied with humus.

We hope to have the question taken up of the benefit and demerit of lime as applied to soil with a record of experi ments.

Roumania

Roumania is the only country of the many which acknowledged allegiance to the Empire of the Ceasers that bears a name "sounding of Imperial Rome." She was of the Eastern as Macaulay says Britain was of the Western Provinces. "The last that was conquered and the first that was flung away" but unlike Britain in respect of adopting the character of the conquerors. The Roman occupation of Britain had but little influence on her subsequent devel opment while the Latin language and manners were so firmly established in the land now called Roumania that after a lapse of time equal to all the centuries of the Christian era except one she is given a place among the Romance nations although successive waves of bar barians swept over the territory and it was for hundreds of years tributary in turn to Turkish and Russian authority.

The territory north of the lower Danube was known at the dawn of European history as Dacia. In the IOI A. D. the Roman Emperor Trajan sent expeditions against the Dacians that resulted in the the conquest of the country and the forming of a Roman colony. Syron in his Childe Harold makes reference to a gladiatorial combat of Trajan's triumph when he says of the dying gladiator that

"He little recked the prize or life he

But where his rude hut on the Danube

There were his fair young barbarians

all at play And there their Dacian mother he,

Butchered to make a Roman holiday"

Important Announcement \$10. VALUE FOR \$1.00

We have set apart this page of OUR PAPER for a SCHOOL and It will contain SPECIAL INFORMATION along FARM Section. the line of work prescribed for the public school as well as the general principles of agriculture as outlined by the specialists at work on its different branches.

A column will be devoted to questions and answers on points that may arise in school work.

CONTESTS in ordinary school work with SPECIAL PRIZES We will make a SPECIAL OFFER to any will be arranged for later. school applying with a club order of six pupils or upwards.

Here is an OPPORTUNITY to secure the ADVANTAGE of a local paper, and a store of useful information beside.

NEW SUBSCRIBERS and ALL making inquiries respecting this section.

ADDRESS-

THE DISPATCH

Box 296

WOODSTOCK, N. B.

in the piers of a bridge across the river at Orsova and a commemorative tablet.

The Romans abandoning their frontiers to protect the vitals of the Empire lipuc cuts the earth in the plane of the left Dacia about the year 274 A. D. in equator and we have noticed that the the reign of Aurelian and for the next sun is then at the equinoxes. thousand years the banks of the Danube was the halting-place for successive along the ecliptic so that the sun ap under Attila, the Bulgars who afterwards founded Bulgaria south of the river, the Hungari that settled in Hungary, the Wallachs from whom Wallac hia derived its name.

and governed both sides of the Danube until the Tartar invasion about the year 1250 A. D. and from the relics of this kingdom two separate principalities arose north of the river, Wallachia and Moldavia both now provinces of Rouman

a. These together resisted the aggres sion of the Turks but at length were con quered and brought to vassalage.

As Turkish power declined the Russians began invasions the first was in 1709 A. D. under Peter the Great and at times they had full control of the coun try but were compelled to give back Bessarabia at the close of the Crimean war and leave the provinces unmolest

1859 under the name Roumania and elec sprung up during the present century ted Prince Ccuza ruler. He was depos on eccount of the immense deposits of ed in 1866 and Prince Charles of Hohen iron in a nearby mountain which is zollern succeeded. He was an uncle of I known as "The Iron Mountain of Kir-Ferdinand the present king.

Roumania aided Russia in the Russo Turkish war of 1887 and at its close Rus sia exchanged the Turkish territory of It contains between fitty and sixty per Dobrudja with her for Bessarabia which was confirmed by the Berlin Trea | dred miles north to Narvik, a seaport ty 1878 when Roumania was recognized on one of the fjords of Norway which a completely independent power.

Roumania kept a considerable strip of steel plants of the world; Some of this territory from Bulgaria which had same iron is being used today on the much to do with their taking opposite | battlefields of the war. There is anpositions in the present conflict.

The Celestial Globe---Continued

The orbit or path of the earth's annual motion around the sun lies in the plane of the ecliptic and that part of the plane of the ecliptic bounded by the earth's orbit is known as The PLANE OF THE EARTH'S ORBIT.

Since the axis of the earth is inclined sixty-six and one half degrees to the plane or the ecliptic, it follows that the earth's axis is inclined sixty-six and one half de grees to the plane of her orbic or the axis is twentythree and one half degrees from being perpendicular to the plane of her

This inclination of the earth's axis from the vertical causes the change of seasons as the earth moves around the sun since the direction of the axis is constant. At the summer solstice the Evidence of the Roman conquest is plane of the ecliptic cuts the earth from A description of sunrise written by a a horizontal base and have rounded or pended.

found to-day in the military road con- twenty-three and one half degrees north structed by Trajan along the Danube, of the equator to a corresponding distance south and the reverse at the Dec ember Solstice.

Twice each year the plane of the ec

The equinoxes are receding slowly wandering hordes: the Goths, the Huns pears to make the circuit about fifty seconds earlier each year this shifting is known as THE PRECESSION OF THE EQUINOXES.

It is reckoned that the complete cir cuit of the heavens is made every twen The Wallachs united with the Bulgari ty five thousand eight hundred years.

The precession of the equinoxes is important in making calculations from charts in order to find the true places of

Kiruna---and its Mountain of Iron

Kiruna is a modern industrial town situated in Swedish Lapland above the Arctic Circle, one thousand miles north of Stockholm with which it is connected Wallachia and Moldavia united in by a line of railway. This town has

The magnetic ore of this region is without doubt the best ore in the world. cent iron and is sent by rail one hun is free from ice the whole year and At the close of the Balkan war 1913 from there it is shipped to the great other iron hill six miles distant from which the ore is brought to Kiruna on overnead electric sklds and thence to Narvik, indeed the whole country around is full of iron not likely to be

exhausted for many years to come. The town of Kiruna contains over ten thousand inhabitants. It has four large schools and a fine church, an electric tramway carries the workmen to and from the mountain. It resembles a model Amenican town, Narvik still farther north is larger with blocks of stores fine residences and large wharves to which the commerce of the world pays tribute. Like Kiruna it has grown during the last fifteen years.

The industry of Kiruna itself is not more attractive than any other of a like rature but its location gives it a charm, Here is the most northerly railway on the globe with all the incidents of up to date travel, penetrating the vast and silent places within the Arctic Circle where for weeks the sun does not rise above the horizon and for a corresponding per iod of Summer, never sets-the land of the midnight sun and the mid day moon.

visitor at Kiruna the middle of January is as follows. "By nine oclock the sky begun to glow faintly, Moment by moment, the glow, which was at first parely discernible, deepened and the fleecy clouds grew rosy, very, very, gradually the dawn came on, By ten oclock the sky was blushing red but still the sun did not appear. At half past ten, he still celayed, while all along the east and far up toward the Zenith, the sky was flushed with such a light as never seen before on sea or shore. Twenty minutes to eleven and still the sun did not appear and ten minutes af ter I could see that the beauty or the sunrise was a trifle dimmed and a little to the north the glorious pageant that attends the setting sun was setting in-At eleven o'clock I was sure the sun was setting and not rising, the skies were all aflame the sunset mingled with



Icing Sugar

For frosting cakes, making bonbons and other confections without cooking. Ask for it by name at your grocers.

1-lb Cartons only

Lantic Sugar

is packed at the factory in dust-tight cartons. Yours is the first hand to touch it.

2 and 5-lb Cartons 10 and 20-lb Bags

"The All-Purpose Sugar" Send us a red hall trade-mark for a FREE Cook Book

Atlantic Sugar Refineries Ltd. Power Bldg. Montreal

Clouds

(Continued)

Cumulus clouds consist of dense convex hemispheres or conical nesps of and parcels have all been held up by the small roundish clouds piled on each courier service between Loosrno, Swit other. The heaps enlarge upward from | zerland, and Domodossola has been sua

THE DISPATCH. Published by

The Estate of Charles Appleby. K. Appleby - - - Business Manage

Subscription \$1.00 per year, in advance United States Subscription \$1.00 per year, in advance.

Advertising Rates on application.

REPRESENTATIVE WANTED

at once for

WOODSTOCK

and District for

"CANADA'S GREATEST NURSER-IES"

Spring 1917 list now ready

Splendid list of hardy fruit and Ornamental Stock suitable for the Maritime Provinces, including,

MCINTOSH RED APPLE St. Regis Everbearing Raspberry and many other leaders

New illustrated Catalogue sent on application

Starting at best selling time liberal Proposition.

STONE AND WELLINGTON

The Fonthill Nurseries. (Established 1837)

TORONTO - -ONTARIO

FOR SALE

FOR SALE, -Tamworth pigs for sale. Inquire of Charles, W. Turney. Plymouth, Car. Co.

rocky tops. They unite sometimes to form white topped mountains of clouds.

These clouds are formed by the condensing of water vapor in local ascending currents of air and are from four to six thousand feet in height. They often begin to form after sunrise as a few scattered specks in a clear sky which enlarge and unite; if they continue until evening and grow darker rain will follow but usually these clouds alone presage fair weather Dense silvery white cumuli indicate thunder. They are distinguished by their clear cut outlines against the sky.

Stratus or night cloud is the lowest of clouds and is extended horizontal layers of various thickness. It is common atnight in summer and autumn forming on clear calm evenings from cumulus settling down or the cooling of moist air over damp ground it may accumlate in dark dense layers and form nimbus.

Nimbus or storm cloud is the most important combination of the main forms. It is a dense continuous horizontal black or grey sheet with fringed edges having rolling masses of cumulus cloud above and topped with cirrus rain or snow is ever falling from nimbus.

Thunder storms are always nimbus and it is obvious that the cloud is of great thickness so has many strata of different temperature which causes the hail so often in a summer shower. The drops of rain passing through a cold stratum freeze to ice and accumulate in size by passing through the rain cloud.

Council of Women Want Conscription

London, Ont., Dec. 2.-The local oranca of the National Council of Wo men, at a big meeting today, decided to urge the Government to immediately pess conscription measures. They will also work with the Ministers of the city to ban prize fights and dance halls, claiming many young men who should be in khaki are there continually.

General Cadorna Ready to Strike Blow at Austrians

Brieg, Switzerland, (via Paris), Dec. 2.—The Italian frontier has been closed since Wednesday. Letters, newspapers