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## ENRICHING THE SOIL Some Hints Upon the Wise Use

of Artificial Fertilizers.

Fuller Use of These Fertilizers Likely -Their Application Must Be

(Contributed by Ontario Department of Agriculture, Toronto.)

they carry plants food and that the real object in applying them is to supply needed available food for the

To intelligently make use of these materials there are three points to be considered. First the needs of the soil, second, the needs of the plant, and, third, the nature of the

It should always be kept in mind

that the soil carries immense

amounts of plant food, but that only

a small quantity of this is rendered

available during the growing season.

The acids formed by the' decay of

the organic matter in the soil is the

chief natural agency operating to

bring the big store of mineral matter into a form that may be taken

up by the plant. The organic matter

is also the source of nitpogen to the

plant, and it increases the water

holding capacity of the soil as well

as improves its physical condition. Consequently every effort ought to be

made to maintain or increase the

smount of decaying organic matter. Otherwise the crop will be grown iargely, from the added fertilizers and not from the plant food of the soil. It is for this reason that it is

sometimes stated that if you com-

mence to use fertilizers you must continue their use.

However, no matter how much we try to render available the immense stores of food in the soil, we cannot

bring it about fast enough to supply

the needs, especially of heavy feeding crops, such as the mangels, turnips and garden crops. Hence the need of manures. Stable manure cannot always be got in sufficient quantities to fulfill requirements, nor

does it always furnish the needed

plant food in the right proportions to develop the plant properly. To supplement the manure is the place

f fertilizers. Stable manure is essentially a

stable manure is essentially a nitrogenous fertilizer. Hence if used in large quantities it will force big leaf and stem growth and retard maturity. Consequently, a plentiful supply of stable manure would help the growth of lettuce, spinach, mangel,

tc.; but it would not be so satisfac-

materials to be applied ....

Farm Hints.

Handled Intelligently - Study

Your Own Soil Closely-General

HE use of artificial fertilizers in this country is bound to increase. These materials are, however, expensive and those intending to make use of them should make an effort to inform themselves regarding the conditions under which they will give the best results. Too many people are using fertilizers without fully realizing that

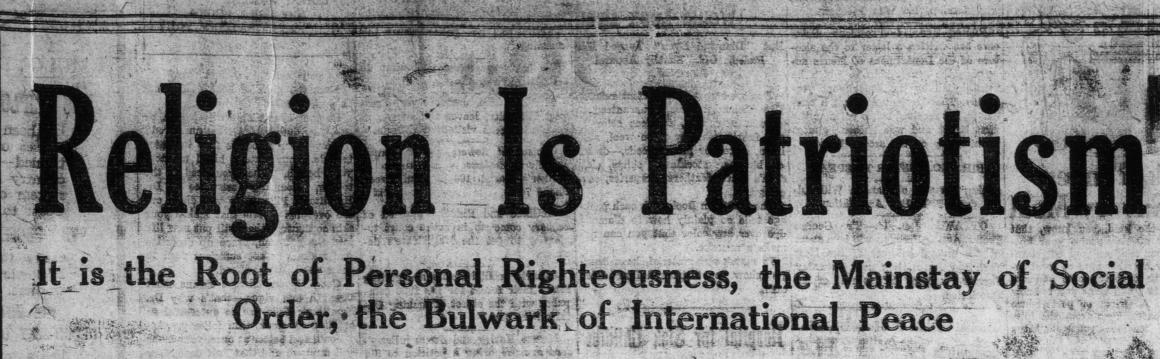
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The Makers of Canada The earliest settlers in Canada were roused by the Call of the Church to develop a noble and useful citizenship. Young and old were invited to turn their eyes from material things, and to regard the splendor of unseen realities. Knowing that Religion is the only true safeguard of stability in the State, they built Churches, Schools and Colleges, to train men for the Christian Ministry, and to spread abroad in the land the benefits of education. This they did in their poverty, and thus directed the course of history in Canada to this day.

The Testing of Canada they choose material ease and wealth, or would they risk all in defence of freedom and the rights of the weak?

Over 400,000 men voluntarily offered their lives, and endured hardness as good soldiers for the defence of equity and fair dealing in all human relationships, and for the vindication of public right. Nor were the people at home less steadfast. Besides bearing the national cost of the War, they gave voluntarily for the help of the soldiers more than \$90,000,000. Canada nobly stood the great trial.

The Menace of To-day Class struggles for material rewards and for mastery threaten the present basis of Society. The vision of spiritual values gained in the War is in peril of being forgotten. The supremacy of sacrifice, the nobility of service, the reality and glory of the Unseen and Eternal, the promises we fought and conquered in more than four years of war.

Victory only through Christ other attempt to establish the Pagan ideal? Only through the Church of Jesus Christ. There is no other agency or society that has any possibility or hope of bringing about a full realization of the brotherhood of all mankind, and the reign of the Prince of Peace.

AND A PAGE FIVE

What the Church Has Done All the progress of humanity in Civilization for the last 2000 years has

he Good Fight

been inspired, directly or indirectly, by the Gospel of Jesus Christ. It has ended slavery, protected life. ennobled women, educated the children and safeguarded their lives, sanctified the home, established schools, missions and charities.

