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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
Handled Intelligently — Study
Your Own Soil Closely—General
Farm Hints.

(Contributed by Ontario Department of
Agriculture, Toronto.)

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

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
materials to be applied.

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 mat-
ter into a form that may be taken
up by the plant. The organic matter
is also the source of nitrogen 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
amount of decaying organic matter.
Otherwise the crop will be grown
largely 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 feed-
ing crops, such as the mangels, tur-
nips 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
of fertilizers.

Stable manure is essentially a
nitrogenous fertilizer. Hence if used
in large quantities it will force big
leaf and stem growth and retard ma-
turity. Consequently a plentiful sup-
ply of stable manure would help the
growth of lettuce, spinach, mangel,
etc.; but it would not be so satisfac-
tory for tomatoes, sugar beets, or
other crops that must be brought to
maturity. What these plants need is
some stable manure and some min-
eral fertilizer to force early maturity.
On the other hand, plants like let-
tuce, spinach, etc., are grown for their
leaf and stem and maturity is not a
necessary point, hence a soluble form
of nitrogenous fertilizers may even
be added after heavy applications of
manure with good results.

The manufacturer of mixed fertil-
izers seeks to prepare special mix-
tures that will be suitable for differ-
ent crops, but the farmer or gardener
should strive to inform himself re-
garding his soil and crop needs that
he may be able to select the form
of fertilizer that will bring about the
growth desired, and he should study
the fertilizer materials available that
he may buy intelligently and econom-
ically.—R. Harcourt, O. A. College,
Guelph.

General Farm Hints.

Put a plant or two of rhubarb in
the cellar which should be kept at a
temperature of 60 to 70 degrees in
a small, well-kept moist and in the
dark so that it will produce stems
and no leaves. Do some reading on
gardening work for this year, but
more especially think over the fail-
ure of the last year.

If the roads are in good shape,
get your manure out and spread. A
dressing of 8 to 10 loads per acre
will keep the orchard in condition.
If buying in the larger cities, order
early as the car situation is serious
enough to delay shipments.

Light pruning of apple orchards,
taking out the small wood with the
long-handled pruners, may be carried
out during bright weather. Grape
trimming may also be looked after
when the weather is suitable.

Before feeding or selling any grain
crops make good provision for your
own seed supply.

Finish cutting out of black knot of
cherry and plum.
Inspect and oil windmill before
winter.

If weather is fine and warm may
continue to spray peach trees and
five first application to trees badly
infested with San Jose scale.

On rough days during this and suc-
ceeding months it is well to go over
all packages, barrels, boxes, etc.,
sending broken carriers, handling
boxes.

Be sure pumps are in good con-
dition.

It is not too early to consider the
question of getting help for the big
crop which will have to be raised in
1920.

Depreciation of Machinery.
Did you ever think of the relation
of the farmer's bank account to the
tool shed? Machinery depreciates
faster in the weather than it does in
use. The time saved by having a
fast-free implement will soon pay for
ice and

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Religion Is Patriotism

It is the Root of Personal Righteousness, the Mainstay of Social Order, the Bulwark of International Peace

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

Because of such sacrifices, there arose in Canada a public spirit hostile towards all injustice, dishonesty and cruelty. The War tested the moral fibre of the Canadians of a later day. Would 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

That conflict is ended. Now comes another test. Not only in Canada, but all over the world, sectional and 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 of Christ; these were the things by which we lived during the War. Now there is great danger that they may fade from view, giving place to selfishness and the love of ease.

The great non-Christian peoples of the world comprise two-thirds of the human race. They are mastering our modern scientific knowledge, and if they remain Pagan may yet turn it to our destruction. Paganism stands for the supremacy of Might, the very ideal

we fought and conquered in more than four years of war.

Victory only through Christ

How can we retain the heavenly vision? How can the world be guarded against another 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.

What the Church Has Done

All the progress of humanity in Civilization for the last 2000 years has 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.

The Coming Era

Victory places upon the shoulders of the Allied Nations the responsibility for directing new conditions to right ends. Canada must do her share. The Church must prepare to meet the needs of the new day. Old standards of life with old habits of thinking and of giving will be wholly inadequate. We must do in our day what our fathers did in theirs. The hope of the world is bound up with the strengthening and extension of the Church of Jesus Christ.

The World's Need is Spiritual

I speak as one standing upon the watch-tower, and know what the need of the land is. It is not material, it is spiritual. Get the spiritual, and the material will follow. The wounds of the world are bleeding, and material things will never heal them. And that is why I hail any movement which brings the great spirit of brotherhood. The one need of England and France today is the healing and the brotherhood of the Cross of Christ.

—Rt. Hon. David Lloyd-George,
Before the Brotherhood Convention, London, September, 1919.

The Forward Movements

FIVE Christian Communions, Angli-
can, Baptist, Congregational, Meth-
odist, and Presbyterian, are con-
vinced that the time has come to
rouse all Christians to a clearer
understanding of their calling and
stewardship in Christ, their King.
They believe that the Church
should be equipped adequately
with men and money to enable it
to meet the needs and opportuni-
ties of the New Day.

These five separate Communi-
ons are of one mind as to their be-

lief in God, the Father Almighty, Maker
of Heaven and Earth, and in Jesus
Christ, His Son, Our Lord. They now

declare to their respective constitu-
encies, and also unitedly, to the Canadian
people, that the only effective method of
making good citizens is by urging
men to a more faithful practice
of Christianity, by inculcating
personal faith in Jesus Christ.
They insist that there is no other
dependable way of correcting evil
tendencies in individual and national
life. They call the people to re-
pentance. To all Christians their
message is, "Awake, Arise. Fight
the Good Fight, For Canada and For
the World."

EACH of the Communions named is in the midst of a Forward
Movement. Each is seeking by prayer and by earnest effort
to accept all its responsibilities. Each is striving to extend its
activities in Canada and in Foreign Lands.

Your Church needs your help, but, far more, you need the help
of your Church to learn the difficult art of living wisely and well.

Consult your Clergyman. He serves you and your children.
Ask him how and when you can serve in this day of national
emergency. Give yourself to the task. Say: "Here am I, send me."

The United National Campaign

Representing the Simultaneous but Independent Forward Movements of the Anglican,
Baptist, Congregational, Methodist and Presbyterian Communions in Canada