# Efficient Farming

Seed Testing—It is a good plan to test all seeds before sowing for a crop.

This can be done by rounting out any given number of seeds, not less than 20 or 25 of each kind, and sowing ler may be used or a piece of wet burthem in sand or sandy soil in a temp.

coarse, fibrous texture on top of the ance of the soil, to within about an be sifted on top of this to sow the seed lings. The different layers of soil should be quite level and pressed fairly firm abnormal rank growth, and ofter as they are placed in the box. The induces disease. Stout, sturdy growth level and from one-quarter to one-half for transplanting purposes. It is best inch below the top of the box or pot to transplant each plant singly into when filled, so as to allow space for small sized clay pots or in "soil banks".

Purposes-There are two methods of eter. The plants will form balls of sowing seed in drills or broadcast on roots in these so that they can be the surface of the soil, the broadcast easily transferred later on into larger (scattering) method being the best sized pots, or planted out in the garmade of a piece of lath the exact the root system very much, thus prelength of side of box-outside meas- venting any check or set-back to the urement—for large flats, with nails or plants when transplanting them. ence for nests in certain locations can pegs in it at proper distances apart Avoid exposing the roots of seedlings hardly be questioned by those who Avoid exposing the roots of seedlings narry be questioned by those to mark where drills are to go, or a marked measure stick or a gauge can be used so as to get the rows the pro-

presser is also very useful to secure straight drills and an even depth for seeds. This can be made from a piece of hard wood the width and thickness of a lath, and half an inch shorter than width of flat or box used. It should be bevelled on one or both edges to about one-quarter inch in the straight drills and an even depth for straight drills and an even depth for straight drills and an even depth for carefully at once as soon as transplanted and shade them from sun for the straw and manure, gathering the bottom row was one foot off the floor, the middle row two feet and the general purpose type. In one case which came to the writer's attention of the sword' foor, the middle row two feet and the general purpose type. In one case which came to the writer's attention as flock of Plymouth Rocks was found to be laying practically all eggs in should be bevelled on one or both edges to about one-quarter inch in the top and bottom tiers of nests, to about one-quarter inch in the top and bottom tiers of nests, the latter point is of special significance when one is keeping fowls of the floor, the middle row two feet and the general purpose type. In one case top which came to the writer's attention affects on law-breakers: it has not received what Roman law calls the jus gladit, or "power taken into the sheep's system, starts top row three feet. In each of the five weeks about 41 per cent of all eggs has been and the floor, the middle row two feet and the general purpose type. In one case top row three feet. In each of the five which came to the writer's attention affects of the start name are floor of the story of the sword' for nothing.

V. 5. The Christian, however, will be the sheep's system, starts top row three feet. In each of the five which came to the writer's attention of the sheep's system, starts top row three feet. In each of the five which came to the writer's attention of the start name are all the provided in the provided in the purpose of the came and the floor, the middle row two feet and the floor, for the rows or drills is about the ing with a damp cloth or with damp can be reached. used, but moved backward and for-ward and pressed lightly and evenly, tioned. In transplanting seedlings the so as to secure a drill of uniform and plants should be set a little deeper proper depth for the different kinds than when in the seed box so that the board the size of inside of flat with should be taken with seedlings such as wood nailed on face of board about thrum and plants of similar growth one and one-half inches apart, so that that the crown or centre of the plant shallow parallel drills will be made on should not be below the surface of soil when pressed down is the soil. Plants having a well-defined useful. The strip of wood nailed on should be beveiled slightly and should be of proper depth for drill resolution be such as cabbage, caulishould be of proper depth for drill resolution be set rather deeply in the soil quired. Do not sow seeds direct from so that the crown of tenter of the surface of soil when pressed down is the soil. Plants having a well-defined main stem such as cabbage, caulishould be beveiled slightly and should be set rather deeply in the soil owners become discouraged in their presence. Horticultural societies when lawn decoration is prevented by owners become discouraged in their presence. Horticultural societies their presence. Horticultural societies of the strip of wood nailed on attractive appearance. Many property owners become discouraged in their presence. Horticultural societies their presence. Horticultural societies of their presence of trees is not justified citizenship. The Christian will not be specimens of trees is not justified distinctions, owners become discouraged in their presence. Horticultural societies of their presence of trees is not justified citizenship. The Christian will not be specimens of trees is not justified distinctions, owners become discouraged in their presence. Horticultural societies of their presence of trees is not justified citizenship. The Christian towns and citizenship. The Christian towns and citizenship. The Christian vill not be down at the content of the soil o the package, as an even distribution is length of the stem is inserted in the

should be sifted first, and applied when the surface soil is fairly dry. with the sand in the same way as re- Surface stirring the soil will commended for sowing the seed. If down weeds, promote growth, and help soil is sifted on, it results in an uneyen application, and necessitates scraping or levelling off, an operation that often causes the seed to be disturbed or perhaps scraped away al-The surface of the soil should be quite level, and may be pressed down lightly after the seed

Depth to Sow Seed About three times the diameter or thickness of the

SEED TESTING AND SEED | seed, slightly deeper for very large sowling.

them in sand or sandy soil in a temperature of about 60 to 65 degrees F., inside of the box, may be spread or a small piece of damp cotton or closely over the surface of the soil. A them in sand or anothy solid in a temperature of the solid block, may the spread out on a continual may be spread out on the solid search of the so

too crowded or too tall and slender. drainage in the pot or box. The bal- Soil of a coarser texture and slightly taught Ted to save his allowance. You for something for someone else. He ance of the soil, to within about an richer in fertilizers may be used for see, his father has given him a certain was given a good deal of freedom and inch of the top, should be of medium transplanting seedlings in. One part amount every two weeks ever since he learned to be neither extravagant, texture, not too fine. About half-an- sand to eight or nine parts of fairly was a little fellow. And that money nor close. He is grateful for this inch in depth of quite fine soil should rich loamy soil will suit most seed-

Soil too rich in fertilizers cause of the soil should be quite is better than rank abnormal growth about two and one-half inches deep Sowing Seed for Transplanting and two and one-half inches in diamfine seeds. Use a marker den as required, without disturbing to the plants. Keep the roots covered height above the floor, its relative se-About one and one-half inches apart as much as possible when transplant clusion and the ease with which it of seed sown, or a piece of heavy flat roots are well under the soil. Care raised handle on back and strips of lettuce, celery, primulas, golden pyre Covering the Seed—The drills rather sparingly after the first water—that is not easily broken. A tree once heretofore. The elm is permitted only the social problem in the spirit of tould be filled in lightly and level ing for a week or so until growth planted, if it lives at all, is with the or very wide streets and parks and Christ.

ith a label or with the fingers. The starts, when more liberal waterings greatest reluctance removed. The seldom nearer than eighty feet. The V. 10. Such a Christian regard for should be filled in lightly and level ing for a week or so until growth planted, if it nees at an, is with the fingers. The starts, when more liberal waterings greatest reluctance removed. The seldom nearer than eighty feet. The seldom nearer than eighty feet. The starts, when more liberal waterings greatest reluctance removed. The seldom nearer than eighty feet. The soll include obedience to everything that the law requires, as taught by Christ himself, relations between soil ty maple, which dry finely sifted soil. The soil stir the soil around the plants about following others, has led to over-dense type of street tree, is seldom placed that the law requires, and also peace that the law requires and peace that the law requires are the peace that the law requires and peace that the law requires are peaced to the peace that the law requires are peaced to the peaced that the law requires are peaced to the peaced that the l should not be sifted on the seed but once a week. This should be done

> Although many apparently try, it cannot be done-this forcing cows to drink ice water with the expectation that they will produce ice cream.

> system of calculating weights and measures.



That hens show a decided prefer

birthday gift."

"How to spend it!" Mrs. Record ed to do. Sometimes he bought things zens. looked surprised. "Why, Anna! We for himself, but often his money went I of

front of the droppings board. All rests were open, but no tier was provided with an alighting board for the the good of humanity.

Convenience of the hens. Hence they

V. 2. The law-breaker, therefore, convenience of the hens. Hence they could not make use of the middle rows.

Leghorns seem to choose high nests

to about one-quarter inch in thick- low, well-drained boxes (flats), but Observation brought out the fact every 100 eggs laid in openly exposed ness. It should not be pressed they do not transplant again as well that the bottom tier was the only one nests, 113 were laid in partly secluded Observation brought out the fact every 100 eggs laid in openly exposed straight down into the soil when being as from these as they do from clay that could be reached easily from the nests, even when the position of the

TREES, OR FLOWERS AND SHRUBS, WHICH?

Many of the front lawns, more par- secured by giving these finer horticul-

ticularly in the older streets of our tural things a chance.

ized that a tree must have space for individual trees.

shrubs, his imagination should-lead fortunately to be satisfied without.

it to become a fine specimen. The re-

with fine lawns, flower beds and

him to realize the charm that may be

I. OBLIGATION OF THE CHRISTIAN RESPECT THE CIVIL POWER, 1-7.

see, his father has given him a certain amount every two weeks ever since he was a little fellow. And that money we taught Ted to put in the bank and save. He never has spent a cent of it. And now!" proudly, "he has nearly enough for his college education." And then, as if in answer to an unasked question, "You see, his father always bought him all his clothes, and skates, and weekly movie tickets, and toys."

"Doesn't he have any just by spend?" someone wanted to know.

"Yes, occasionally, now that he's older and has learned to save," the front of the droppings board. All contrary to justice. His primary prindical in the constituted authority is required of every soul." This means that Christians will render it not less than pagnas. Indeed, just because civil authority is part of God's ordinance for the well-being of society, the Christian will show a greater alacrity than others to respond to every just requirement. It must be remembered that St. Paul's own experience of Roman justice had been uniformly good. More than once, at Corinth and elsewhere, it had secured him fair play against Jewish violence. St. Paul is not contemplating cases where the law of the State might conceivably be contrary to justice. His primary prindical submission to the constituted authority is required of every soul." This means that Christians will render it not less than pagnas. Indeed, just because civil authority is part of God's ordinance for the well-being of society, the Christian will show a greater alacrity than others to respond to every just required of every soul." This means that Christians will render it not less than pagnas. Indeed, just because civil authority is part of God's ordinance for the well-being of society, the Christian will show a greater alacrity than others to respond to every just required of every soul." This means that Christians will render it not less than pagnas. Indeed, just because civil authority is part of God's ordinance for the well-being of society, the Christian will show a greater alacrit

brings himself under the condemna-tion not only of the State, but of God. Leghorns seem to choose high nests in preference to low ones when provision is made for them to alight easily in front of any nest. A five weeks count on a flock of about 200 Leghorns in early February showed 713, 518 and 506 eggs, respectively, in the top, middle and bottom rows of nests.

The bottom row was one foot off the state, but of God. V. 3, 4. Fear of the State is not indeed the highest motive on which a citizen will wish to act. As a matter of fact, no well-disposed man need stand in any terror of just governments, for God appoints them for moral ends. On the other hand the State must inflict penalties on lawbreakers: it has not received what Roman law calls the just gladdi, or "power"

V. 6. Thus he will pay taxes willingly, recognizing that the officers of the government are "ministers," or as St. flocks of sheep traceable to drinking Paul's language suggests, "priests" of water from stagnant pools about the God within their own sphere.

rendering tribute, taxes, respect, and honor to those who by law are entitled to receive them.

secured by giving these finer horticul-tural things a chance.

The holding sacred of even fine

The holding sacred of even fine

their lawns at considerable expense of street tree planting and control, logue-St. Paul here recalls to his seldom obtained by this facthod. Pour soil. The roots should hang perpen every three or four years. Attractive with a view to improvement of the readers the sixth, seed into the hand, or into a small dicularly in the soil, the tips of the flowers and beautiful shrubs are out homes through the more generous use minth, and tenth commandments. Do saucer and sow with the thumb and roots on no account to be pointing up of the question on many of the lawns of flowers.

Quantity of Seed to Sow for Transplanting—In drills the seed should all below the surface. Press the soil most cover the bottom of the drill and firmly around each plant so as to set when sown broadcast the seed should it in position firmly. Water the plants dull appearance of many town streets. by thoroughly qualified men, has with whom he deals. He will set the continent, and the though and beds of flowers and beds of they not all go back to the one principle, "Thou shalt love thy neighbor of the canvas of policies with regard to as thyself?" The Christian will, there of the one principle, "Thou shalt love thy neighbor overshading of street trees and the overshading of street trees in the larger cities of this goodwill his motive. He will set the continent and the continent and the plants of the question on many of the lawns of flowers.

A canvas of policies with regard to as thyself?" The Christian will, there overshading of street trees in the larger cities of this goodwill his motive. He will try to life.

The continents are through the one principle, "Thou shalt love thy neighbor overshading of street trees in the larger cities of this goodwill his motive. He will try to life."

The Christian the total the thing deference and the of flowers.

A canvas of policies with regard to as thyself?" The Christian will, there-overshading of street trees in the larger cities of this goodwill his motive. He will try to see things through the one principle.

The continents are through the one principle of the continents and the plants of flowers.

A canvas of policies with regard to as thyself?" The Christian will, there-overshading of street trees in the larger cities of this goodwill his motive. He will street the continents and the plants of the continents and the plants of the plants of the continents are plants. when sown broadcast the seed should it in position firmly. Water the plants dull appearance of many town streets. by thoroughly qualified men, has with whom he deals. He will act toin their characteristics and crop adapcover from one-third to one-half of carefully at once and shade from sun

The admonition to everyone to plant shown that much greater space is now wards them as thought at once and shade from sun

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The admonition to everyone to plant shown that much greater space is now wards them as thought at once and shade from sun the state of the shown that much greater space is now wards them as thought at once and shade from sun the state of for a few days. Water the plants a tree seems to have established a rule being allowed between trees than place. He will, in other words, face

planting in practically every urban nearer than forty feet. In some of though St. Paul does not mention this distinct types of soil, and the percentized that a tree must have space for individual trees.

One seidom has an opportunity of III, SPECIAL OBLICATIONS OF THE CHRIS-

sult is shown in street trees growing linto each other during perhaps the length of an entire block or street, ordinary city street where the plant-christians lived in the expectation of preventing individual development and the growing the line feet apart. The opinion is growing did not know how soon he would come feet apart. The opinion is growing did not know how soon he would come sult is shown in street trees growing viewing a row of really fine street Vs. 11, 12. St. Paul and the early shutting out the sun from the fine feet apart. The opinion is growing decorative plants that most of us like that the finer residential streets will that the finer residential streets will back, and, therefore, the highest of all motives to Christian conduct lay in If one can not visit a street graced smaller and ornamentals that we have him. St. Paul urges this motive now

## The Sunday School Lesson

FEBRUARY 22

Good Citizenship, Rom. 13: 1-14. Golden Text - Thou shalt love thy neighbor as thyself. - Rom. 13: 9.

I. OBLIGATION OF THE CHRISTIAN TO RESPECT THE CIVIL POWER, 1-7. II. NECESSITY OF SHOWING LOVE TO ALL III. SPECIAL OBLIGATIONS OF THE CHRIS-

V. 1. Political submission to the con-

V. 7. The general principle is clear. the Christians will be foremost in

II. NECESSITY OF SHOWING LOVE TO ALL

deal more.

become accustomed to see and unfortunately to be satisfied without.

Canadian Horticultural Council. him worthy. We might entitle this a misnomer.

part of the lesson, therefore, as "The Special Obligations of the Christian Era."

V. 13. How very unworthy would it be if Christ should find any of his followers living a scandalous or drunken life, degraded by sensual or profligate passions, or even quarrelsome and envious! There should be no place for such undisciplined con-

which we regulate our outward lives, by the experiences of others, bad men made good, and good men made better; by what we have felt and know in our own hearts, but most of all by turning to him who said, "All power is given unto me." First essential of all such citizenship as Paul would have us exemplify, is to know, as he did, "whom" we have believed. Christianity is a faith, it is a teaching, it is a life to be lived. Are we rediscovering to-day, with radiant hope, that Christianity is also a power? The Power we need. "Be strong in the Lord, and in the power of his might." Power we need. "Be strong in the Lord, and in the power of his might."

Sheep should always have plenty pure well water to drink. No food taken into the system of animals goes more directly into the blood than the water they drink. Impurity of the blood caused by drinking impure water must inevitably produce diges-tive disorder and ultimately disease.

During the winter and spring months there is greater danger of sheep drinking impure water than at any other time of the year. At this time the flock confined to limited quarters is dependent upon their shepherd for sustenance. If the water supply is scanty and unclean, the sheep are sure to drink from little pools of water that gather in low depressions about the yard. These little pools of water accumulate from thawing ice and snow and rain water percolating through the straw and manure, gath-

yard and pasture during the winter

The water supply for the breeding ly guarded. Water drawn from de rock wells is preferable.—L. C. R.

## The Soil Survey — Between the Niagara Escarpment and Ontario.

During the season of 1924, the work conducted by the Chemistry Dept. of the Ontario Agricultural College in soil survey has been carried on in the Niagara Fruit Belt. A desailed soil map constructed on a scale of one inch to one mile has been completed. It includes the land lying between the Niagara Escarpment and Lake Onwidest tario from the Niagara River to Ham-

fine sandy loam to the heaviest clays. A feature of the survey that is especially interesting, is that distinct correlations between soil type and crop is well adapted to peach orchards, is small indeed.

One hundred and forty soil samples representative of the soils mapped on survey, have been taken for laboratory examination. As soon as these analyses have been made a complete report of the field work prepared, a bulletin will be published on this area.

Take heed-the "rest" in interest is