The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops. Address all questions to Professor Henry G. Bell, in care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. When writing kindly mention this paper. As space is limited it is advisable where Immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.



H. A.: Would sweet clover have a alone was all right. This field has tendency to eradicate milk-weed and been in corn for the past two years quack grass? How long after planting before a crop can be cut for hay under this spring. The land is a mixture of normal conditions? How early should it be sown, and how much seed per dcwn. What is the amount and kind

Answer: Sweet clover makes very of fertilizer to use? rapid and close growth. I do not know Answer: The fertilizer to be added that it will eradicate milk-weed and to corn depends very largely upon the

There are two kinds of sweet clover the annual and biennial. The annual clover, if planted early in spring, produces a good forage crop by the mid-dle of July, which in many instances cuts from 1 to 11/2 tons to the acre. The biennial clover produces a heavier growth the second year, but should not be cut short the first autumn. As a rule 10 to 15 lbs. should be seeded per acre to get a good catch.

R. K.: I have a field of biennial white sweet clover seeded in oats last year. Can I cut it for hay, then let it grow up again and cut it for seed? What time shall I cut it so as to give it time to go to seed?

Answer: Biennial clover seeded last hay by mid-summer of this year. cut early it will make a second growth Answer: The raspberry bushes which will flower, but if you are grow-should receive cultivation sufficiently ing it for seed, do not cut it for hay often to keep down weeds and to pre-

quack grass, but it will at least soil upon which the corn is grown. If weaken those weeds, and make their extermination easier. phate is probably the only fertilizer that need be added. If the soil is pure clay which has not received manure for some time you should add from 200 to 400 lbs. per acre of a fertilizer carrying 3 to 5 per cent. ammonia, 10 to 12 per cent. phosphoric acid. If the soil is sandy or gravelly a complete fertilizer analyzing approximately 4 per cent. ammonia, 8 per cent. phosphoric acid, and 6 per cent. potash should be used. This appears to be the type of soil on which your corn has en growing. Therefore, we would advise adding at least 400 lbs. of the above fertilizer per acre.

B. H.: I planted raspberry bushes this spring in gravelly soil, using sheep manure as fertilizer. Can you year should make a good cutting of give me directions as to the best care If this season?

first if you wish to get the largest serve the moisture in the soil. About the middle of July we would advise W. F.: Would like some information adding 300 lbs. of bone-meal per acre in regard to fertilizers for corn. I distributed between the rows of canes have been told that acid phosphate and worked in by cultivation.

> sible to find what they like best and make the butter accordingly.

long distance that must be traveled to

obtain high-quality bulls. In such sec-

tions it will surely pay to own a good

killed and if the birds use protected

roosts they will not be injured by the

if the birds are on roosts which con-

tain no crevices in which the lice can

which the birds can spend the night.

age without the danger of deforme

Lice are also easier to control

bull co-operatively.

as possible

ing down colds.



A little fly dope to spray on cows saves them a lot of pestering. But it is even of greater value to the dairyman and his hired man. Their morale on hot summer nights is never improved by being kicked and switched by fly-bitten cows. One cow with a tail like a bundle of wire can make a milker extremely disgusted with life.

The cows need salt in the summer na well as any season and the large salt blocks are very handy to have in the lane or pasture. It gives every cow a chance each day to obtain some salt and the blocks do not break up easily so that bits of salt can be pick-

ed up by poultry. Sometimes dealers do not like to handle dairy butter in crocks but prefer the pound packages of uniform quality put up in neat wrapping paper. Then there are no crocks to return and they do not have butter of various shades and some crocks which are too salty and others not salty enough When the producer has a local trade with private customers it is soon pos-

WOOL

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## Baby Chicks

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RICHMOND HILL

Made by The Canadian Steel and Wire Co., Limited HAMILTON, ONT

Ask Your Dealer for this better, stronger, heavier galvanized fenc-He buys in large quantities, secures lowest freight rates and

can sell to you cheaper than anyone else.

Fighting the Crow

There are probably no birds whose for another of the crow's vices, for habits are wholly good or wholly bad during the summer months it is a action the standpoint of man's best interests. Many species are recognized as valuable assets contributing largely to become welfare; others show vices and virtues so nicely balanced as to make judgment difficult; while in preme penalty. In some of the cases few species their numerous sins reported poultry-raising has become brand them as undeserving of protec-tion. In spite of all that has been gun finally put an end to the crow's written in its defence, the crow belongs career. in popular mind to the last or outlawed group, for its destructiveness is at- in large numbers, some caught alive, tested by the farmer, the poutry raiser others picked up as carrion. During and the sportsman. Notwithstanding the late summer months grasshoppers the abundance of the English sparrow form a considerable portion of the food in this province and the enormous supply. The destruction of these inlosses due to its activities it would seem that the crow is considered as beneficial, seem that the crow is considered as beneficial, but it falls far short of atoning for serious a pest, if one may judge by letters of inquiry which are received.

The economic status of any bird depends almost entirely upon what it and rarely eats caterpillars or soft

During hot weather young calves are sometimes staked along the road with an inadequate water supply. It pays to remember that water is always the cheapest element in an animal's ration and yet is one of the most attacked are themselves decidedly ment of grain and when properly done important elements in making animals In grading up a herd of cows it is, parent.

of course, necessary to use a sire of the same breed for each cross. Otherwise you are developing mongrels instead of progressing closer and closer to pure-breds of one breed. Many section that some of the leading ornities as to moisten the corn thoroughly. Drain immediately and stir to pure-breds of one breed. Many section that some of the leading ornities as to moisten the corn thoroughly. Drain immediately and stir to pure-breds of one breed. Many section that some of the leading ornities as to moisten the corn thoroughly. Drain immediately and stir to pure-breds of one breed. Many section that some of the leading ornities as to moisten the corn thoroughly.

tions are handicapped in developing high-producing herds because of the of the nests of wild birds may account planter.

earth. in the sky!"

After that whenever the moor grew too big and bright the couple would pare it down and cut out more stars from the parings.

a chick is well feathered out that its wo persons lived, the Woman in the with her. The dust made him sneeze, birds are given heavy rations to decided to go away for a while. So was dressed in vellow: the man was large as possible before the wings strong so that the was dressed in vellow: the man was large as possible before they have to be housed for the wings. It has practice is not lived by the man was large as possible before they have to be housed for the wings. It has practice is not lived by the man was large as possible before they have to be housed for the wings. It has practice is not large enough to nande easily, an expense of the second of the wings are given heavy rations to decide to go away for a while. So made those wings strong so that the was dressed in yellow; the man was he got into his little cloud cart and Pullets that are late-hatched and the ground at the ground at

When he came back he found a pile When the chicks have learned to ishing the moon. They tended it so They were the little pieces that he They spent most of their time polof golden shavings out in the yard, stunted and do not lay any eggs until growth, but the excess plants act as roost it is much easier to protect them carefully, in fact, that it grew larger had trimmed off between the points of the stars during the winter. His large quantities by the late-hatched "The moon is getting so big," the wife had swept them up all over the

"Cart them off somewhere," she will keep the people on the earth said. "They aren't big enough to awake at night. What shall we do?" make stars of, and they are just cluttering up the moon."

So the man loaded his cloud cart with the little pieces of gold and took them out into the sky and dumped them there. Down, down fell the little golden pieces; down faster and faster through the clouds. A saucy breeze came chasing along the sky and helped to carry them down. Fast-

The next morning when the chil-dren ran outdoors they were astonished to find myriads of little yellow things shining in the thick grass like

They ran eagerly to pick them up. "What beautiful new flowers!" they cried.

Sure enough, during the night fairy had touched the little pieces of gold and changed them. Every single shaving had become a bright yel-

said one of the children.

And that is the way-at least so fairies always tell the tale-buttercups first came to be.

## The Sunday School Lesson

**JUNE 19.** 

Making the Social Order Christian. St. Luke 4: 16-21; St. Matt. 25: 34-40. Golden Text-St. Matt. 25: 40.

Connecting Links—The essence of Christianity is in the spirit, not in the forms, of life. It is possible for the Christian spirit to exist and to manifest itself in any recognized or established order of society. Even a slave and his master may live together as brothers beloved (see Philemon 16). The king, the feudal lord, the artisan, the physician, the soldier, the serf, the priest and monk, hermit progress and of reform. The nations the artisan, the physician, the soldier, the serf, the priest and monk, hermit and missionary, have all entered into this brotherhood. It is possible for this kindly Christian relationship to exist in the factory, the forest, the field, and the mine, between employers and employed, just as perfectly as between fellow workmen in the same craft. The Christian spirit is the spirit of love and service.

St. Luke 4: 16-21. As His custom

is serious a part, if one may judice destruction of any total part of atoming for members of the serious of the this way they were serving Him, they tude of hearty and ractical goodwill, will receive this great reward. For Jesus had so identified Himself with humanity and human need, that He brothers and sisters among whom God could truthfully say Inasmuch as ye have done it unto one of the least of "fearful looking for of judgment."

Finishing the Late Hatched.

Late hatched chicks may need some underfed in the fall are nearly always a loss as they frequently become

late in the next spring. Boiled oats will be consumed in

birds. Place a pail of the oats on the range where they can have access to them at all times. A large capacity enough room for proper growth varies crop can be developed in that way. Boiled pumpkin mixed with bran is an different varieties of each vegetable. appetizer of which the birds will eat a In general, plants of bush beans should great deal and it also expands the crop and gives the bird the large capacity which stimulates rapid growth.

Send the late-hatched stock to bed with a full crop. It pays to examine the crops of the birds after they go to roost and note the condition of the crop. If the birds have plenty of food before them and some individuals go to bed with half-full crops it means that those birds are not good feeders and they should be culled out as soon as they are large enough to bring at least their cost of production on the market.

The problem of late-hatched chicks is serious on the farm as too many of the young birds come in that class. Frequently they are underfed, especially if the corn crop happens to be less than usual. It pays to feed them well or they cannot pay for the little that they do get.

## Shall I Borrow to Learn?

for his education, gave the following reason for doing so: "By the time I until the small plants removed finish I shall be in debt \$600. To have large enough to use as "greens." waited until I carned this amount before going to school would have dethat I save at least a year in my life." garden.

## Thin Out Garden Plants.

Do not allow your plants to grow too large before thinning them. Nearly followed, not only do the crowded conditions cause a tall, spindly, unhealthy weeds, using up the plant food and moisture that should be available for the crop.

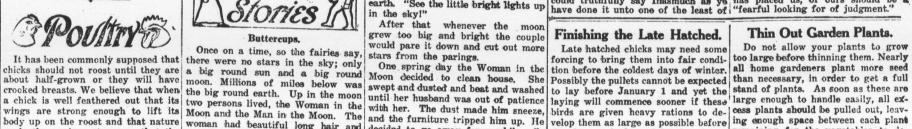
The distances that plants should

stand in the row in order to have with the different crops and with the carrots and salsify, two to four inches; endive, eight to twelve inches; kale, eighteen to twenty inches; kohl four to six inches; leaf lettuce, six to eight inches; parsley, three to six inches; parsnips, three to four inches; radish, one inch: spinach, three to four inches, and turnips three to four inches

Leaf lettuce is generally thinned several times. The first thinning is not done until the plants are of such size that a few removed here and there may be used as salad and will give room for those remaining to grow larger. Later a second and third thinming takes place, again giving room for further growth. By this method a great deal larger crop may be obtained from a limited space than if the small plants were given maximum distance at the first thinning.

Radishes and carrots are ordinarily not thinned until some are large enough to use unless, of course, the A young man who was going in debt seed has been sown exceptionally thick. Thinning of spinach, too, is delayed until the small plants removed are

Many gardens are through when the layed me several years. I can pay it first crops are taken off. Planting the back in half the time after I am same vegetables ten days apart as through college because of increased long as possible will prolong the peearning power. I, therefore, consider riod for fresh green food from the



chick could get up off the ground at fat and jolly and laughed a great went off for a ride. night and thus avoid as much danger deal.

from mites. If the perches are painted all the time. with kerosene oil the mites will be

woman said to the man one day, house, "that it will soon be too bright and "Ca The man thought a minute and then

hide and the birds do not crowd on the he began to laugh. His fat cheeks shook so hard and his eyes shone so roosts and become overheated as they do on the floor and this helps in keepbright that the people on the earth said to one another, "How wonderful Some breeders do not like to have the moon is to-night!" the chicks roost at an early age and they protect them by providing boards

"I have an excellent plan," the Man raised a few inches from the floor on in the Moon said. "I will trim the moon down until it is shaped like a slice of watermelon. Then I'll make We believe that vigorous birds from mature breeders can roost at an early other moons out of the trimmings." So he trimmed the moon until it was shaped just like a slice of melon. The woman was very much pleased

with her new house. "Look," said the people on the "we have a new moon to-

The Man in the Moon and his wife sat on the steps of their new moon house, and the man tried to make moons out of the shavings. Snip, snip went the scissors; drop, drop went the little pieces that fell

"Oh, look what I've made!" the man said after a while. He held up

a little six-pointed star. "How pretty." the woman said. "A sky full of little stars like that will be much prettier than a sky full of little moons." And she set to work eagerly to help cut out stars.

After they had used up all the trimmings, the Mar in the Moon took his little cloud cart, hitched it to a breeze and went skimming along over

the sky, hanging out the stars as he "Oh, look," said the people on the arth. "See the little bright lights up

er and still faster they whirled until at last they landed on the earth.

pure gold.

low flower with a green stem. "They are shaped like little cups,

"And they are as yellow as butter! said another.

Intercrop the space in your garden. Keep all the ground busy.

Try out a new vegetable or two this year. Variety is the "spice" of gardening.