Farm Crop Queries

CONDUCTED BY PROF. HENRY G. BELL

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 meation 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.

good crops here in Ontario? Could it be sown early in the spring and allowed to work its way into the ground the same as clover and timothy seeds that are sown on winter grain crops? Would you consider Sudan grass a good crop to cut and put into the silo? How do soy beans compare with fodder corn for feeding

milch cows? Answer:-Crimson clover might ossibly be grown in Essex and Kent, but it is not a suitable legume for the ainder of Ontario. You would do far better to grow common red clover, alsike, alfalfa or sweet clover. Sudan grass is a very coarse grass grown in the Southern States. It makes fairly nutritious hay but is not suited to growth in Ontario. It is widely advertised by men who want to sell the You would get far better and richer feed in growing ensilage corn.

Soy beans are much richer in protein than corn. For instance, corn analyses about 10 per cent. fruit protein and 72.9 per cent. carbo-hydrates. Soy beans analyze 36.5 per cent. protein and 30.8 per cent. carbo-hydrates. They also carry about three the state that corn carries. Soy beans can used to some extent as a concentrate in balancing dairy rations.

R. B .: - Will you give full details on tomato culture? The quantity in oz. of seed, how sown to get evenly. Transplanting in the open, rich loam soil, and again replanting to the field on 20,000 plants. The soil is sandy rich loam, plowed from sod a year ago, had a crop of beans. I intend placing around each plant a small handful of

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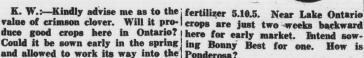
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Answer:-One of the biggest points in successful tomato growing is to see that the ground is well prepared. Choose plants about 4 to 6 inches high which have been hardened by the boxes being set outside for a week or 10 days before they are set out for 10 days before they are set out for came sufficiently evident before we transplanting. Make a hole sufficient- broke down, so that our wise parents ly deep for the roots to be straightened out in transplanting the tomatoes and retain as much earth as possible around the roots. When applying the fertilizer, scatter it round with the hand where you are going to set the plant so that the fertilizer will not be too strong in close proximity to the them, at the foot of the class, showed plant. From the time that the tomato plants begin good growth keep ed to be no reason for this loss. The the soil cultivated not too near the plants nor too deep, but just sufficient to keep a dust mulch one or mother could apparently offer no extwo inches deep. As the tomatoes begin to form it is frequently good practice to spread straw three to inches deep between the rows so that the ripening tomatoes will lie on the straw where they will be kept clean and at the same time the straw will form a mulch after the time when one must cease cultivation. The verieties you mention are among the leading varieties used at this time.

E. E. D .: Last year I wrote asking now to kill quack grass. I did nearly as you advised, but have not killed it all out. In part of it I put corn, in order to work it. Will it do to put it to corn again? What is best and cheapest commercial fertilizer I can use for corn, and which is best for potatoes? My ground is quite heavy clay. Do you think soft coal ashes any good for heavy clay soil? Are they worth hauling?

Answer: I would advise you to put orn on the same ground next year, fertilizing it at the rate of about 400 bs. per acre and using a fertilizer analyzing 3 per cent. ammonia, 8 per cent. phosphoric acid, and 3 per cent. ootash. The best way to apply this fertilizer is to have it drilled in at the time the corn is planted. High profitable results have been obtained from applying as high as 500 lbs. per acre of fertilizer analyzing 3 to 4 per cent. ammonia, 6 to 8 per cent. phosphoric acid, and about 4 per cent. potash, for potatoes. I do not think it will pay to spend very much on coal ashes to mix with your clay soil. I graduated within a certain period of would be afraid the free chlorine in the ashes injuring plant growth. In not capable of sustained mental exorder to lighten up your clay soil I ertion, and therefore, unless unusually would advise you to grow a green crop which you can turn under and thereby add greatly to the humus of



They have a watery discharge from the nose, look sleepy and keep their upon a healthy boy or girl. eyes closed a great deal. Is there a remedy?

In separating the chicks with colds have taken the first step exactly right. Colds are contagious. Place permanthe water is colored a deep red and the birds have no other source of sup-Rubbing the head of a bird with cold with camphorated vaseline will often reduce the inflammation. Some poultrymen make a mixture of a tablespoonful each of ginger, flour, mustard and black pepper. Then lard is added until the mixture can be rolled into pills. When a bird shows signs of a cold several of these small pills are given to stop it. Sometimes crushed onion rubbed on the head and fed to the sick fowl seems to control colds and start the bird on the road When rubbing the head

half-pound package of Red Rose Tea(Crimson Label) you get exactly the same tea for which you formerly paid 35 cents a package.—Quality in Red Rose Tea is the first consideration. Evils of Over-Fatigue in Childhood

When you pay 30 cents for a

By WILLIAM EMERSON, M.D.

ories of my own childhood is the nightmares which I frequently had after an evening of hard study. My brother and I used to walk a mile to school, four times a day, and, later, two and one-half miles each way to high school, or five miles a day. Fortunately, the nervous fatigue resulting from this, added to our daily chores and the school program, beplanned transportation for us one way.

children from foster homes. Recently, in a class composed entirely of older girls from such homes, one of girl had taken sufficient food for gain-2,400 calories-and the foster planation.

However, when the child was ques tioned by herself as to just what she did each hour of the day, she suddenly broke down, and disclosed a program that might well have been taken from a tale of Dickens. The foster mother had compelled this underweight, malnourished girl of twelve to do the family washing and ironing together with much other heavy work and had threatened her with punishment if she should tell about it. The Inspector transferred her to a better home, where an immediate gain in weight showed a quick response to kind treatment.

This, of course, is an extreme case Yet instances are not rare of ambitious children overdoing even without pressure from parents or teachers and carrying a program that would be a strain upon a full-grown adult.

Naturally, progress in school is a matter of great moment to parents. However, not enough attention has been given as yet to the difference in progress to be expected between a well child and one unable to bring his full energy to his work. Every malnourished child is under par, and while he is in that condition he is unable to do full school work. A program, well planned for the normal child, may be a heavy burden for the malnourished child.

Our school efficiency too often measured by the number of pupils time. But malnourished children are bright, they lag in their studies and have to be crowded. They are often called lazy, when they are physically unable to carry the burden of the

It is not merely the concentrated effort of studying, but the continued tension that produces overfatigue. School tension for three hours at a stretch, or in the case of one-session

ing about the recovery of the mal-In separating the chicks with colds rounished boy or girl, therefore, is that the remainder of the flock you that the be relieved from too long school hours, complicated as often are by an atmosphere of fear ganate of potash in the drinking and tension. The child needs mental and tension. The child needs mental employment but the amount of the control of the con employment, but the amount of time that he should be subjected to the strain of school attendance depends upon his condition. Some children can be present the entire school day, provided time is given for rest periods and lunches. Others will gain better on a half-day schedule. Certain children ought not to be under the strain for more than two hours a day. while a few of the more serious cases should be relieved of all school work.

Few schools are organized to make these adjustments, but when it is known that the requirements are only temporary, and that children can be brought in a few weeks or months to a much higher plane of efficiency,

The best method of treating colds consists in prevention. It often pays to keep the birds locked in the house on cold windy and rainy days. At such times the exposure frequently brings houses free from draughts are also preventive measures that cannot be An evergreen windbreak on the poultry range will protect the birds from raw winds which are a ommon cause of watery eyes.

One of the most distressing mem-| should be omitted during the period

The forty-eight-hour record has It is caused, too, by sleeping facing proved very useful in our work with the light; for light is a powerful sen-

Many a child is forced by the example of his comrades to long-continued rope jumping, or to bicycling up long hills, when he has not the energy to spare for such exertions. All such fatiguing exercise should, in fact, be avoided while the malnourished child is getting back into condition and climbing.

the other ones, that have colds, ive a watery discharge from b, look sleepy and keep their sed a great deal. Is there a constant of the first essentials in bring-sed a great deal. Is there a constant of the case of one-session schools, for five hours with only a between the fatigue which is a mature between the fatigue which is a mature should pay taxes to Caesar. Unto God as their Ruler in spiritual things, as well as to their political rulers. Where these duties clash, those owed to God in the case of one-session between the fatigue which is a mature should pay taxes to Caesar. Unto God as their Ruler in spiritual things, as well as to their political rulers. Where these duties clash, those owed to God itself. tion, and makes his return to health and strength more difficult.

This is the kind of fatigue which must-be prevented by careful planning. It may sound impossible to arrange for rest periods during the day with the many small tasks to be performed about a farm, and which almost necessarily have to be accomplished by the children. But planned work will accomplish more in shorter hours than a long-drawn-out tiresome day of undirected labor. Make the children earn their rest,

but see that they get it. After you have made the fortyeight-hour record of activities, challenge every item and try to make it justify its tax on the child's energy. When you have made out the new

program, stick to it, and do not allow anything to interfere with the hour

By far the most valuable asset of any country, particularly of a young answered by quoting Deut. 6: 5 as the country like ours, is the conservation great and greatest ("first") com any country, particularly of a young of its native born children. Yet it is a curious fact that up to the present colds and the birds will be better off time, while the Government of Canin the laying-house scratching in a ada has for years had a department, deep straw litter where the air is the business of which was to look still and dry. Feeding a balanced ra- after the calves, the lambs and the tion seems to keep the birds toned up colts, it has given not one cent for and resistant to colds. Clean poultry the protection of the babies of the country. What are YOU going to do about it?

> The manufacture, sale, or keeping in stock of matches containing phosphorus is illegal in Belgium.

The Sunday School Lesson

FEBRUARY 13

Lessons on Citizenship, St. Matt. 22, 15-22, 34-40. Golden Text, St. Matt. 22: 37.

Golden Text, St. Matt. 22: 37.

Time and place—Tuesday, April 4, A.D. 29; The Temple Court at Jerusalem.

Connecting Links—When Jesus entered the Temple Court, on the Tuesday of Passion Week, the last day of the parables of the Two Sons and the Wicked Husbandmen, 21: 28. In reply He questioned them about the baptism of John (Matt. 21: 24-28) and added the Parables of the Two Sons and the Wicked Husbandmen, 21: 28-44. The Pharisees wished to arrest Him, but feared the people, Matt. 21: 45, 46. Jesus then spoke the parable of the Marriage Feast (see last lesson, Matt. 22: 1-14). Then followed three questions of lear above the fevered questions of learn about the lawfulness of tribute to Caesar above the fevered questions of sleep. Nearly forty per cent. John of allegiance to Rome. It was as if He said: "You bring this coin as a symbol of Roman rule and authority; the Pharisees and Herodians about the lawfulness of tribute to Caesar another by the Sadducées about the simply brushed the political questions of the dead and a third by a lawyer as to which was the greatest commandment. The first and hours.

Overfatigue is also caused by disturbed sleep when other members of turbed sleep when other members of

tours of sleep. Nearly forty per cents, of all malnourished children keep late hours.

Overfatigue is also caused by disturbed sleep when other members of the family retire late, and again when the child is aroused by early risers. It is caused, too, by sleeping facing his leight; for light is a powerful sentory stimulus. It has been demonstrated that the depth of sleep is much greater during the dark injury non-Jewish, hence their minutes of summer.

There should be no light in the sleeping room, and children should not be permitted to sleep in underclothing which has been worn during the dark injury arise with the individual child, but the malnourished child needs at leaded to sleeping. The abolity to sleep for short periods at any time is a habit the hadden to sleeping. The ability to sleep for short periods at any time is a habit that makes for health.

The rest periods properly taken are for great importance in counteracting the first pain and failing posture. The clothing should be loosened, and the windows are of great periods are priced and the windows are of great periods at any time is a habit to the malnourished child needs at leading the first pain and first pain and from the should be loosened, and the windows are of great importance in counteracting the first pain and for great importance in counteracting the first pain and for great importance in counteracting the first pain and for great importance in counteracting the first pain and for great importance in counteracting the first pain and for several days may be the means of causing the first gain. It is used to the should be loosened, and the windows are of great periods properly taken are of great periods are value than a longer to the proper of the periods and properly taken are of great periods and properly the properly other cases, it will be better for the child to have breakfast in bed at his regular hour, and then continue to rest until ten or eleven. He should not be allowed to sleep through his usual breakfast time, and thus lose the value of regular feedings.

The desire to keep up with other children in what they are doing often leads to overfatigue. This may be seen in school, or at work, or in play. Many a child is forced by the example go against popular feeding, which was call for the common good. He dare not allow large parts of his mental by the Roman Government, to which seen in school, or at work, or in play. Many a child is forced by the example go against popular feeding, which was Cavell declared before she went to her the child to have breakfast in bed at his regular not, to commit Himself the question to be asked. Regardest not, tooking at his fact. If a man is richly endowed, has a fine education, spearance; Thy decision will not be musical gifts, wealth, the gift of speech or writing, he is bound to use all for the common good. He dare not allow large parts of his mental on the play wealth or power or prestigue. It is lawful; from a religious point of view. Tribute, the tax levied by the Roman Government, to which the common good. He dare not allow large parts of his mental or the common good. He dare not allow large parts of his mental or the common good and spiritual life to be barren and unifruitful. All must be freely put on the altar of the country's need.

3. This leads to the truth that "pattion is not enough," as Edith.

while the malnourished child is getting back into condition and climbing up to normal weight.

The child will naturally overdo, and the brighter and more active he is, incrous unrest. We have helped many children to get better control of themselves by telling them about a small dog who had to be tied up several hours a day in order to keep him from wearing himself out just by running about. A "free" horse does not have to be urged, but rather held back.

There is an important difference between the fatigue which is a naturally overdous time with the manutary to the Roman authorities. In the Roman authorities, and love to man. On these foundation vis. Is 21. Perceived their wickedness; saw through their crafty plot. Why tempt ye Me. The purpose of their flattery was open to the eyes of flesus. Ye hypocrites. They were such the thoughtless to overthrow our institutions. But the way in which things will be settled right is the way of love—no other. "Christianity they have really words. The tribute money. The tax could be paid only in Roman money. Image. The denarius bore the Emperor's image. The

are, of course, supreme. But Jesus does not define the limits of political authority.

V. 22. Marvelled; "wondered;" the reply a genuine surprise, they had not thought it possible that He could slip out of their hands so completely and so easily.

II. The Great Commandment, 34-40.
V. 34. The Pharisees. See on v. 15.
The Sadducees; a sect of the Jews,
rivals to the Pharisees, who did not
believe in the resurrection, and who had sought to discredit Jesus by showing that a belief in the resurrection was absurd, knowing that Jesus believed in the resurrection. Put . to silence; literally, "muzzled." The Pharisees were doubtless pleased with the defeat of their rivals, and, hoping to succeed where they had failed, attempted another encounter.

Ye 25 26 26 Absurder of the tower had sought to discredit Jesus by show

Vs. 35, 36. A lawyer; one of the scribes or interpreters of the law. Which is the great commandment? Literally, "What sort of commandment is great? What are the qualities?" a much higher plane of efficiency, often making faster progress than the average well child, it will be less difficult to secure the co-operation of the school authorities.

Outside lessons, such as music, carry out the health program.

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Outside lessons and municipation of the school authorities.

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Outside lessons and municipation of the second up 613 to 12 device the law. Of these some were "heavy," while some were "light," and it was keenly disputed which belonged to the one class and which belonged to the other. which belonged to the other.

Vs. 37-39. Thou shalt love. Jesus mandment, enjoining the love of God to the uttermost of our being; and Lev. 19: 18, enjoining the love of a neighbor as ourselves. "Jesus' special originality lies in his combining.... the love of God, and the love of neighbor, making the latter a derivative of bor, making the latter a derivative of the former and a form of its expres-sion" (Anderson). Amongst the Pharisees the love of the law had taken the place of the personal love of God, while no place was left in their system for the human love of paighbor.

neighbor.
V. 40. On these two . . hang all the law and the prophets. The moral drift

But there is another way also of looking at this fact. If a man is richly endowed, has a fine education, musical gifts, wealth, the gift of speech or writing, he is bound to use all for the common good. He dare not allow large parts of his mental and spiritual life to be herren and

riotism is not enough," as Edith Cavell declared before she went to her martyr death. Perhaps it would be best to state it in this way: that the richest patriotism involves the su-preme law of "commandment" as en-unciated by the Master—love to God and love to man. On these foundation stones a glorious Canada shall rest. 4. The fundamental requirement of



The night was coming very fast; It reached the gate as I ran past. The pigeons had gone to the tower of

They were asking something, that was plain,

Asking it over and over again. One of them moved and turned around Her feathers made a ruffled sound, A ruffled sound like a bushful of birds, And she said her little asking words. She pushed her head close into her wing.

But nothing answered anything.

Drafts and overcrowding are common causes of roup among poultry.

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