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 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.

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J. R. M.: What do you know about it into oats again this year. this new clover seed? Do you think alfalfa be seeded with oats? it would grow good on sandy land one | Answer: Evidently part of hundred and fifty miles north of To- trouble on your soil is bad physical rento? What is the proper method of condition. The addition of one-half sowing by hand or seed drill, and how to a ton of lime per acre on top of much per acre? Also, about what the plowed furrows, thoroughly worktime should it be sown and cut for ed in, will to a great extent improve hay? Do you think this man is asking this condition. I believe a good stand too much per pound? Do you sow in of alfalfa can be obtained by seeding spring like oats and cut same year or it with oats. Do not use more than sow oats or rye for a nurse crop and a bushel and a peck of oats per acre

liprestone cost? I have a piece of any show sown with it?

Answer: Huban sweet clover is a structed so that the crops it contains | Says Sam: Slovenly farming is slover which was discovered at Iowa come along in such order that they form of impiety. State College, Ames. It is much like make a continuous supply. The mixcycle in one year. When growth However, the livestock usu- an advertisement, would probably sell something is eternally gained for the comparatively warm climate like ally eat it down to such an extent them. to produce large crops and of course to the soil. In a region one hundred The Sunday School Lesson and fifty miles north of Toronto I' doubt very much if the season is free! of frost sufficiently long to mature! seed. However, the clover would make a splendid growth for hay and many Isaiah's Summons and Response, Isa. 6: 1-8. Golden Text poor that they could hardly stand, and a half in the morning and again will refuse to pull. The way to treat lines: results from cutting it and putting it in the sile. The seed can be sown early in the spring along with oats or barn half of oats or barley to the acre Kingdom. Before him Amos and see the unveiled glory of Jehovah" would be gone before his herd would when seeding with sweet clover and Hosea had preached to the Northern (Gray). now 6 to 8 lbs. of clean clover seed Kingdom, and he was doubtless fato the acre. If possible use an early miliar with their teachings. He was V. 5. Isaiah's attention was turned of starvation is my conviction. Now halter in leading is a good time to variety of oats like Daubeney or early brought up in Jerusalem, where he from the glorious spectacle to himself. what was wrong? Thampion. Understand, of course, that mingled freely with its most influen- The revelation of God's holiness was He had cut his forage just as close necessary duty in its after life of use-Huban clover is a one season crop trans of Lulean politics and life As also a revelation of his own and his as he could estimate his needs, and fulness—which is easily accomplished and does not last over like other sweet a young man he witnessed the brilelever. In order to ensure a catch liant reign of Uzziah, which was perience in the presence of his Lord, in a way to get full results from it. of one hand between the point of the would be well for you to apply 200 marked by great material splendor Luke 5: 8. Unclean lips. Speech is in a way to get full results from it. of one hand between the point of the to 300 lbs. per acre of a fertilizer and prosperity (2 Chron. 26: 5-15) as the expression of the inner life and He underestimated the price of feeds, shoulder and the breast bone and usanalyzing about 3 per cent. nitrogen, well as by folly, wickedness and so- when the inner life is corrupt, the and when too late realized that he ing the other hand at the halter strap s per cent. phosphoric acid, and 3 per cial injustice. The removal of Uzziah speech shares that corruption also, was going to find it very hard to pull simply to keep the colt straight in cent. potash at the time that you sow from the throne enabled Isaiah being a prophet felt his moral through the winter and keep his stock line, to back in any desired direction. the clover and grain. This will hasten a higher king and a better kingdom. weakness most upon his lips" (G. A. alive, and he tried to feed as little as Do not try to force the colt backward its yield, and greatly assists in get- Inniah's vision came while he was

quoted from \$1 to \$3 a ton. I would V. 1. In the year . . died. We do burn fuel in a brazier or to heat in the field to fill it much cheaper step) you should be satisfied and try design to see the plane of the fertilizer firms of Ontario handle lime- young Isaiah to revise his estimates as a purnying agency. (See Mal. 3: vided against such an emergency. In hend what is wanted, and how will-

D. H.: We have a farm which is a Dan. 7: 9. Sitting upon a throne. of pardon and could then address God Corn will make pretty good silage, light sandy soil with a hardpan hot- The temple was regarded as the spe- and man with clean lips. tom, and it has been run quite a little cial dwelling place of God, and Isaiah V. 8. The call was not addressed while, so I plowed up sixty acres last saw His throne with its foundations directly to Isaiah; he merely overfall and want to put a crop on this in the earthly temple but rising far heard God questioning with his serspring to turn under, and my idea is above it. High and lifted up. To the aphim, "Whom shall I send, etc." Face starvation. to sow a crep of white turnips early prophetic mind God is both in the to face with a holy God he realized this spring, and figure that I can turn world and above it. His kingly maj- that a prophet was needed to deal that crop under and sow it to buckwheat, and also turn that under in the largest and imperfections.

The largest and imperfections and he responded with, "Here am I."

The largest and imperfections and he responded with, "Here am I."

The largest and imperfections and he responded with, "Here am I." build the land up, and would like to build it up in the shortest possible time, please let me know the best kind of white turnip seed and also buckwheat, and also the best kind of seed I could put on in the fall.

V. 2. The seraphims; are celestial beings. not mentioned elsewhere in the Bible. They are represented as the guardians of God's throne who repel from His holy presence all things profane and sinful. The possible the fall.

Institute School News seed I could put on in the fall. ture of their wings, as described by

Answer: The idea of plowing under Isaiah, indicates reverence, humility white turnips as a soil improving and service. erop is rather out of date. You would V. 3. It is probable that the ser- ped their two schools with dishes for have distributed dustbane, and had get a great deal more good by plow- aphim sang antiphonally, one choir a hot lunch. ing under a mixture of peas and chanting the first half of the verse The members visited the school one which were without oiled floors, and eats or cats and soybeans, or some of the functions of the seraphim thus and cake as a treat for the children, tary containers for drinking water other rapid growing mixture, pre- appears to be praise. Holy, etc. The the latter in turn entertaining the installed, and individual drinking ferably containing a legume such as threefold repetition of the word visitors with a very nicely executed cups. Prizes given at the close of a good stand of sweet clover on your holy. Isaiah filled the word with soil, why not grow some of this rapid deeper content; it now became not A quilt and some other articles regular school attendance have greatgrowing legume and turn it under, only the idea of separation from sin were sent to the Soldier Settlement ly raised the average attendance in Besides adding humus this will also but positive, moral perfection. "It Board, Toronto, and a needy family the schools. This is community work add considerable nitrogen. When you

have four acres of hill land that I which is supposed to surround (Lincoln Co.) is arrang- never was so well pleased with any cannot get a catch of clover on, mas presence, Ex. 80: 22. Here it seems ing for a debating contest between two weeks' education," reports a

that it is not satisfactory to leave it over as a clover sod for the following

E. T.: Can you tell me how to treat my currant bushes? The leaves are affected by some kind of disease which turns them an orange or rusty color. They curl and the bushes do not grow. What is the best way to trim currant and gooseberry bushes?

Answer: I cannot tell from your description just what is the matter with your current bushes, but I would suspect that it was Leafspot. The best cure that I know for Leaf-spot is to spray with a mixture of Bordeaux during the early part of the season. The disease is a fungus disease and the Bordeaux is material which kills the fungus. It is made up of 1 lb. of quicklime, 1 lb. of copper sulphate dissolved, to 8 gals. of water. Dissolve the materials separately and mix, using them immediately. Do not use the material which has been standing for some time, since it will not be of any avail. Practical cane growers trim out the dead wood from current and gooseberry bushes early in spring before the sap begins to rise. They follow this with a slight trimming of the branches that tend to grow excessively long.

H. A. C.: I have about five acres of Answer: For fertilizers for onions doom, v. 13. 2. Can you tell me if there is a good soil but it is quite rolling. It grown on muck soil I would advise, machine made for sharpening disc har- was in corn and potatoes last year. 500 to 750 lbs. per acre of a fertilizer

III. Preparation for Service, 6-9.

APRIL 30

-Here am I; send me.-Isa. 6: 18.

Connecting Links-Isaiah was the 10: 4. The smoke obscured the vi-

Time-B.C. 740

Smoke

The Tobacco of Quality 2 LB. TINS-and in p'kgs.

ministry. He was warned that his S. M. F.: I wish to plant some on- preaching instead of raising the peocut clover following season? Is it along with 10 to 15 lbs. of alfalfa good for more than one season? I seed. Fertilize with 300 lbs. of a would it take for one acre? Also, off to the doom, vs. 11, 12. Neverwould be very much pleased to re- 3-8-3 per acre at the time your oats how many bushels does it take for a the doom, vs. 11, 12. Neverhis prophecy and will escape that

He had lost two or three cows and in the afternoon. quently accompanied God's presence, \$1,000 for feed during the winter, and Place-The Temple at Jerusalem. Ex. 40: 34; 1 Kings 8: 10, 11; Ezek. could see no way to go beyond that. first great prophet of the Southern sion; "only for a moment does Isajah He realized that most of the summer regain its usual condition. No herd

V. 6. It is remarkable that Isaiah, he failed with some. 3. The price of limestone varies at tenances in the temple became sym- expiates for sin. A live coal, etc. more of the feeding value of what he been made at the front and the colt

vicinity of Beachville and from other scription of God is impressively brief. which must either consume them or better than by building a large your every wish as soon as it under-For other visions of God see Ex. 33: purify them" (A. B. Davidson). Being enough silo to carry them through stands what is wanted.

> even if it does not produce any grain; and if we have plenty of it we need not fear that the cows will die of

Making Horses More Useful

Some Things Every Farmer Should Know

BY WILFRID E. DIEGEL

In bitting a young and nervous sit still, take his lines, hold them \$160 in taxes, while upkeep and de-Tows? If so, where could I get one? It is a field I want for pasture and I want to get it seeded without fencing if I can. Would winter rye be all phoric acid, and 4 to 6 per cent. potash. The call to service and replied, "Here should be covered with a large, smooth of the call to service and replied, "Here should be covered with a large, smooth of the call to service and replied, "Here any case, a bit with a large, smooth of the could rent should be covered with a large, smooth of the call to service and replied, "Here any case, a bit with a large, smooth of the could rent should be covered with a large, smooth of the call to service and replied, "Here any case, a bit with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with a large, smooth of the could rent should be covered with large. The could rent should be covered with large and the could rent should be covered with large and the could rent should be covered with large and the could rent should be covered with large and the could rent should be covered with large and the could rent should be covered with large and the could rent should be covered with larg right for pasture, sown this spring. This should be applied half broadcast am I; send me." At the outbreak of any case, a bit with a large, smooth In most cases he will go right on "Why don't you sell?" I asked him. 3. How much per ton does ground and would clover and timothy stand and half through the drill at the time the Indian Mutiny, Sir Colin Camp- mouthpiece is far better than the about his business, but the driver "Sell, nothing!" he replied, "the feelhard after seeding. How much per along fairly well, but I doubt if it to learn a definite figure by getting. It is seen. When harnessing a horse the bit should be attached to the bridle some horsemen smile, but a horse has the point, when asked how long it would sharp and crue instruments of the mast keep and crue instruments of the large instruments of the mast keep and crue instruments of the mast keep and the seed is sown. Freight cars are of bell, when asked how long it would sharp and cruel instruments often must keep his lines taut and not pull ing I have in owning the thing is hard after seeding. How much per along fairly well, but I doubt if it to learn a definite figure by getting ready now." When Paul had his village to make as good a pasture as a in touch with any of the freight in a large majority of cases it scre? How should it be applied, after would make as good a pasture as a in touch with any of the freight sion of Christ he asked, "Lord, what the animal, unless it is tender about are willing to give him credit for. lieve in a large majority of cases it would be applied, after would be applied, after would make as good a pasture as a in touch with any of the freight sion of Christ he asked, "Lord, what the animal, unless it is tender about are willing to give him credit for. lieve in a large majority of cases it would be applied, after would be applied wilt Thou have me to do?" The mis-sion fields are calling for workers. the ears, will usually allow the bridle The secret of this little trick is sim-would keep a boy on the farm. The ministry is pleading for recruits, to be quietly adjusted in its proper ply diversion. With kindness and You must remember, however, that Every church is asking for helpers. It place. Then taking the hanking bit proper treatment a horse can almost I mean real ownership, not play owner-

Teaching a Colt to Back.

ing a colt to back. There should be draft may then be gradually relaxed And turn our poor old father down? no difficulty in this if proper methods until all the draft rests on the traces. are followed. The following method is a good one: "After the colt fully possible and keep the cows strong by "yanking" at the halter or bit, but enough to come through to grass, but simply press in his sensitive chest the earthly temple was transfigured expired expired of halter pulling is to pass the halter will naturally go backward, provided to the earthly temple was transfigured expired of halter pulling is to pass the halter will naturally go backward, provided to the earthly temple was transfigured expired of halter pulling is to pass the halter will naturally go backward, provided to the earthly temple was transfigured expired to the earthly temple was transfigured to the earthly temple was transfigured expired to the earthly temple was transfigured to the earthly temple was tra 2. I do not know of a machine other the earthly temple was transfigured than the grindstone for sharpening into the heavenly temple where God than the grindstone for sharpening into the heavenly temple where God into the heavenly temple where God removing his sin foreshadows the with it he could have saved much behind it. When this pressure has than the grindstone for sharpening into the heavenly temple was training of the heavenly temple was tr different places. I have heard it bolic of great spiritual realities. It was a Hebrew domestic custom to had, and he could have purchased corn moved backward (if it is only one

Starting a Balky Horse.

for a week or two to keep a mouthing- on the traces again. Many balking else and really own something." bit in the mouth while standing the horses will refuse to start, but others I wrote a little poem once, the His cows were going on pasture so animal in harness, say for an hour will start off all right, but if stopped kernel of which is in the following this form of vice is to pull on the tail Why did you leave the farm, my lad? rope until the draft comes partially Why did you bolt and quit your dad? Many experience difficulty in train- on the tail. Then he will go. The tail Why did you beat it off to town, Persist in this treatment and a per- I left my dad, his farm, his plow,

Kicking in the Stall. For the habit of kicking in the stable, it is a good plan to fasten a Because my coit became his horse; chain or strong rope across from post to post behind the animal, about three I left my dad to sow and reap, feet from the floor. A horse almost Because my lamb became his sheep; invariably backs up as far as his I threw my hoe and stuck my fork, halter rope will allow before com- Because my pig became his pork! mencing to kick, and if he cannot get | If you don't want the lad-to stay back he is very likely to stand up by you, farmer fathers, then don't in his place and behave himself. An- bother your head about him. But if other plan is to fasten a chain about you do want him, try to develop, or

Halter Pulling. A very good plan to break a horse everything," Try it, anyway. attaching it to a rope tied around the While the outlook for cattle may body. Another plan is to pass a not be the very brightest, with the double rope back through rings on a ravages of disease in Britain, the un-

in contact with the sin of His people no way could this have been done ingly the young thing complies with is oats, barley, bran and flax. The bulk prepared to take advantage of the of the food should consist of oats and changed situation when it occurs. That bran. It is well to have the oats some such views are held by the Dochopped and mixed with one-quarter minion Live Stock Commissioner is their bulk of bran. A horse may reprehensive reviews of last year's A remedy which will start a balky ceive from four to five quarts of this trade, that unless foot-and-mouth dishorse almost every time is as follows: for the morning and noon meals. In ease is soon controlled in Britain it When a horse balks-no matter how the evening the feed may consist of is probable that a continuation of the badly he balks or how ugly he is-do about three quarts of boiled barley, strict quarantine regulations will efnot beat him; don't throw sand in his one quart of boiled flax and a quart feet the movement of frozen meats ears; don't use a rope on his forelegs of bran seasoned with salt. The hay and clear out the storage for fresh or even burn straw under him. Quietly fed should be of good quality and be supplies. It is obvious that this would go and pat him on the head a mo- given in no larger quantity than is be beneficial to all classes of the

Keeping the Boy on the Farm

The subject of "Keeping the Boy on the Farm" has been discussed at length from many angles and for many years, yet we are still talking about it. I would like to add my page to the books of discussion; it may exhaust my readers, but not the sub-

I talked to a man last year who had raised seven boys, most of whom stayed on the farm. The old man had educated them, given each one a start, and had himself retired at seventy with an ample old-age fund.

"How did you keep them interested?" I asked. "How did you get them to stick?"

"Pride of ownership!" he replied, "pride of ownership! They had things all their own from childhood-that did it! Besides, when I gave them anything it was their for keeps-it was not in play. They were 'little men,' they were!"

Pride of ownership, real ownership, is, I believe, instinctive with every one. The man without it, to my mind, needs either a physician or a guardian. I know a man in a town of 15,000 people who has a house worth \$5,500. Just at present he could get eight per cent. for his money if he sold the house. That makes \$440. He pays

the ordinary biennial sweet clover, ture consists of 88 lbs. per acre made with the exception that it makes more up of oats 51 lbs., sorgan 30 lbs., red asm you use in describing those good. The same adjectives and enthusi- Faith in God supplies the motive for and fourth fingers of the right hand, a small rope and firmly attach it to so you must take good care of him!" with the exception that it makes more up of oats 51 lbs., sorgan 30 lbs., red asm you use in describing those good seriousness in our life endervor. "If insert the first and second fingers in the horse's tail. Take a torn on the wishes to sell the pony and does sell the mouth which the horse will in- doubletree or cross-bar, giving slack wishes to sell the pony and does sell universe by success, it is no better voluntarily open; the bit can then be enough to tighten the traces. If the him. Then it is different. The boy than a game of private theatricals, deftly brought up into its place and horse refuses to pull, tighten this rope took care of the pony, but the father from which one may withdraw at will, fastened almost before the horse is until the draft comes on the tail. No takes mighty good care of the money aware of it. Take plenty of time and horse ever refuses to pull by his tail, he sold for. If the boy has pepper use the horse very quietly. When When the horse starts, the tail-hold in his make-up he begins to long for gentling a young horse it is advisable may be relaxed until the draft comes the day when he will "live some place

manent reformation is a sure result. Because my calf became his cow; I left my dad,-'twas wrong, of

a foot long to one hind pastern by rather gratify, this instinctive pride of ownership. Give the boy things that he "can keep or sell himself, 'nd ----

Outlook for Cattle.

surcingle, and fasten them to a crup- settled state of Europe, and the emods is adopted the animal should be improvement ere long. The disturburged to pull back which he is not ance cannot go on indefinitely and A very good diet to build up a horse tions must return. Canada should be ment; take a hammer or even pick up eaten up clean in one hour three times bring supply and demand nearer to adjustment. Further on in his report ports and market conditions in the United States have been badly interpreted, Canadian cattle should make a better showing than during last year This should occur despite the Fordney tariff, for cattle authorities in the United States insist that there exists a shortage, and point as proof to the poor showing of certain of the heavy producing areas. Short supplies and strong markets are expected to materialize as a result. During the war all classes of live stock were ruth lessly slaughtered, and breeding has not yet had time to replace the and mals sacrificed. Consequently with stocks exhausted and an improvement in economic conditions, which perforce must come, there can hardly fail to be a betterment of the market

In building hoppers, supply a foot of feeding space for each six hens.

Take care of the pasture; don't turn stock on it too soon. Let the grass get a good start.

It was an Ohio farmer who, by rearranging his fences, saved himself and his teams 4,300 turns in a year. There is no law against any farmer trying the same plan.

wheat, and also turn that under in His train. The lower portion of God's Vs. 9-13. In the concluding verses men, chuckle to themselves when time to put in a fall crop to turn robes flowed down from His Isaiah is warned by God not to expect neighbors complain that their sons under another year. Or what other robe and filled the entire floor space an unqualified success in his prophetic are leaving the farm.

Institute School News

covers the impressions which God in the neighborhood was also helped. well worth while. well to fertilize as indicated in the answer to the question above.

makes on man as a sinner (G. A. Smith). Isaiah's favorite designation of God was "the holy one of Israel." of the Nation" contributed to the funds of the Institute, and the social bright most successful and enjoyable Demonstration Course in sewing. "I

Elphine (Lanark Co.), have equip-1 the seven schools in their district; the cracks filled in all the schools school for the summer holidays for

not been good since plowed one spring when quite wet, for cats. I want to try alfalfa on it, Will apply lime and want to know if you think I could get a good catch of alfalfa if we put from the temple service. A cloud fre-

AXLE The ground mice in Imperial Mice Axle Grease amooths the spindle by filling the minute crevious in the steel. Over this the grease works pasily, eliminating friction, heat and wear. Eases the strain on horses and harness. It goes twice as far and lasts twice as long as other greases.

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Splendi Societi of B The val is largely

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some fifty ye party arrived Britain in 186 of healthy gi to Canada eve tion of two period. In the proximately children have agencies appri and Canadian The children try may be of eighteen, are the agencies a gular immigra must themselv emigrate, and to do so agair received in Ca various agencie sent out to fost

ment inspectors any dissatisfact child, his foster he is sent back t til other satis oan be made. Many Have A Whilst the you go to foster pary and maidens are laborers or dom to be expected ing beginnings, largely to be fo bler walks of life significant to

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They are carefu

a creditable repu settlers have ma taken from the 33,617 have come the past ten year the same period. from people anx or employ these Fully seventyboys have remai life and many ar ers. The girls ! tion, proved val many have marrie Canadian life. Th cessful clergymen merchants, school made their first ap under the auspice

society, and it is r thousand of these boys enlisted in t

many making the