Farm Crop Ram Queries

CONDUCTED BY PROF. HENRY G. BELL The object of this department is to piece at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to so s and crops. Address all questions to Professor He ry 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.



scres of clay loam. Has been in sod amounts? Also, if there is alfalfa for ten years I understand. I intend that will not heave out. We got a putting it in sugar beets if I can get good catch, but the next spring it "contract" from the factory. If you heaved out until it didn't amount to think it advisable. I can manure part much. Our soil is a gravelly clay. of it by hauling it from city, four Answer:-It is common to sow miles. Would you fertilize the rest from 10 to 18 lbs. per acre of the variof it?

pay you to fertilize your sugar beet ditions of superior soil preparation ground in addition to such manure as by a less amount. When grass and you may be able to obtain to put on clover is mixed it is common to use it. Quoting from actual tests the about 8 lbs. of clover and about 4 lbs. Wisconsin Experiment Station reports of grass seed per acre. The fact that that it obtained an increase of 49.1 the seed is being sown on different per cent in yield and 47.3 per cent in types of soil has not as much to do sugar content by fertilizing sugar with the quantity as has the nature beets. The Division of Chemistry at of the soil preparation. Of course if Ottawa quoted in 1916 an experiment the soil is not in first class mechanwhich mangels where without fertil- ical condition it is necessary to inizing they got 81 bushels to the acre. crease the amount you mention so as By the use of 1331 lbs. of high grade to allow for some of the seed not fertilizer/per acre they increased this germinating. There is no alfalfa that to 676 bushels to the acre.

vise you to use a mixture containing The thing to do is to drain your soil. from 3 to 4 per cent ammonia, about It is pretty clear proof if the clover 8 per cent phosphoric acid and about or alfalfa heaves that the water 2 to 4 per cent potash. See that this which comes from the fall rains, is worked into the soil thoroughly at stands in the soil, where it freezes and the time the seedbed is being pre- heaves the crops. Draining is the pared for the sugar beets. Apply the only cure for such a condition.

stances if you are not too far away plant this to next spring to get a crop from the factory sugar beets is a good of hay the same season? crop to grow. The cultivation cleans Answer:-The only mixture that high grade sugar beets.

L.J.:-Will you tell me how much oats seed of the various clovers and H. J.:-Can you give me full direc-

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R.B.:-Last fall I plowed seven different soils need different

ous clover seeds, although fairly good Answer:-I believe it surely would catches have been obtained under conmay not be heaved out of the soil by For fertilizer on beets I would ad- the action of freezing and thawing.

fertilizer at the rate of 500 lbs. per Subscriber:-I have five acres of sandy soil from which I took off a Certainly under normal circum- crop of rye last year. What can I

your soil of weeds and the deep- will give you a crop of hay the same rooted nature of the crops st'rs the season that you sow it is a mixture soil so that the mechanical condition of such grain as barley and oats or is greatly benefited by growing this peas and oats. These may be sown crop. A medium clay loam supple- at about the rate of a bushel each to mented with fertilizers as indicated the acre. If cut when green they make should produce a large tonnage of a good quality of nutritious hay, esspecially the mixture of peas and

grasses to sow per acre, and whether tions about spraying an apple orchard. Also about pruning. The orchard on this farm has been neglected for

Answer:-Space would not permit our giving full instructions for the spraying of the apple orchard. Indeed you would do much better to write the Ontario Agricultural College and ask them for their spray calendar also their literature regarding pruning. These will give you exact information regarding the ques-

Beside spraying and pruning you should look to the fertilization of your orchard if you expect to bring it back quickly to the most prolific prominent apple grower of Blenheim, hours' wait ahead of him. There was country people? high grade fertilizer, scattering it watched him. branches of the tree and working it heads?" he asked suddenly.

last fall.

lbs. to the acre. If you have a grain horse's comfort. fairly good application can be gotten make you want one."

particulars will oblige.

Answer:-It is hard to answer your things. considerable money crops I believe a many still believe it. tractor is an economy. It can be But now it is gradually becoming Ice is also sold to the farmers to take handled most profitably if the fields clear that competition is not a matter home. are of a shape that farm machinery of prices at all, but of service to Each summer this store takes a can be used without much end-turning. farmers. Here and there over the neighborhood census, covering both As a rule the average tractors on the country the storekeeper in a farming the things farmers will have to sell market are comparatively easy to town has demonstrated that with ser- at harvest and the things they will somewhat of a mechanic and is will- sible to build up a big business in the is convenient. Postal cards with ing to give sufficient attention to smallest place. There are not many printed reply forms are mailed to keeping the parts of the machine in such stores yet. But in scattered every farm for 15 miles around, ask- with attention such as should be given good shape. For definite information places merchants enterprising enough ing for estimates on what each farm a machine of the class, should run Farm Mechanics Department of On- proved that the principle was right, in four sends back his figures, and longer records than this, which would get, and giving as little as you can, ing the place, there would be no distario Agricultural College and con- Neither mail-order competition nor a thereby it becomes possible to organ- seem to indicate good running condi-



THE CANADIAN FUR AUCTION SALES COMPANY. Limited, of Montreal, organized and financed by a representative body of Canada's leaders in great commercial enterprises will hold its

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Offering immense quantities of fresh, original, unculled Canadian Furs-the Best in the World-UNMIXED with inferior southern varieties, the company will sell to the highest bidder of hundreds of eager buyers from all parts of the United States and Europe.

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Making the Country Store Work for the Farmer.

bearing. Neglected orchards in Ohio One chilly fall day a typewriter dise as a factory town of 5,000 to able snow house she threw up her rose from the dead. His coming was many faults, and that if she would were made to yield 145 per cent more salesman stepped off at a country 10,000 people. by proper fertilization of the crop. A railroad junction, with a couple of How can a country store serve guin.

chard of 41/2 acres so that now it is ing general store. The storekeeper chant with a new stock of horse blan- listened to little bear's heart and he it's power, for Peter and those who by helping him to discover things for yielding over 1600 bushels of apples. had opened a big box and was taking kets reminded farmers round about felt his pulse, then he shook his head were with him "heard them speak himself. Soon he will not only be He used about 12 lbs. per tree of a out horse blankets. The salesman that the time had come to keep horses and said: around about the area covered by the "Have you got any printed letter- service-simple enough, but on the rible-"

into the soil as the orchard was tilled. "Yes. Why?" said the merchant. One of the most thriving country wringing her paws. W.W.:- I have an old meadow that "I believe I can help you sell those stores known to the writer is in a vil- "A terrible HOT!" rumbled Doctor I want to put into wheat in the spring, horse blankets," replied the salesman. lage of 200 people in sparsely settled Penguin. What fertilizer is necessary to get it He had a sample typewriter. Sitting farming country. This store operates "He must have been near a fire!" into good shape? It was not plowed down with some carbon sheets he a flour bank. It buys flour by the Then all the family came and stood your meadow I would advise you to by the storekeeper. He told them pon books good for five or ten or cake of ice on his feet and pretty use a fertilizer from 2 to 3 per cent that a new load of horse blankets had more sacks of flour. It has a spe- soon, that is, in about three days, he ammonia, 8 per cent phosphoric acid come in, named the prices, and re- cial room for storing flour, where it was nice and cold again. But after and 1 to 2 per cent potash, applying minded folks that it was humane and is kept dry, clean, and safe from that he never went to sleep over warm it to the soil at the rate of about 250 also good business to look after a pests. The farmers who hold cou- ovens because he didn't want to catch

the last disking and harrowing. | was waiting with a typewriter order, and the flour bank draws customers R.B.:-Would you advise buying a for the letters had brought him for other merchandise. tractor for a hundred-acre farm, fair- several hundred dollars' worth of This town had no ice plant-few ly level? Would I need to remove trade. Farmers had never got a busi- country towns of that size can afford many fences? I have never used a ness letter from him before. They one. But the store installed an eighttractor. Is it hard to manage? Full came in to buy horse blankets on his ton artificial ice plant, with a coldfriendly tip, and also bought other storage room large enough to hold a

question regarding the advisability of For fifteen years or more the coun- perishables. Farmers bring in perbuying a tractor. Provided a consider- try general store has been ailing, ishable stuff during the season able amount of the land on your farm Until lately country storekeepers be- heaviest production and lowest prices, is under tillage and you are near lieved that the trouble was price the store paying them cash, and holdenough to town so that you can grow competition of mail-order houses - ing produce in its cold-storage plant

operate, especially if the operator is vice to one's farm customers it is pos- want to buy. This is as smple as it I would advise you to apply to the to go after farmers with service have will sell and buy. About one farmer 100,000 miles. Some trucks have given service, and even to pay a little season.

comfortable he made a beginning in right lines.

quickly wrote twenty-five letters to carload, at the lowest price and around little bear's bed and fanned pons on the flour bank come in and any more colds-pshaw, I mean hots. drill with fertilizer sowing compart- "When I come back this way next take out flour as needed, get the benement you will get the best applica- month I am going to ask you to buy fit of car-lot prices and freights, and tion by putting the fertilizer on in this a typewriter," announced the sales- are not troubled with storing flour OVERCOMES CHILLS way. If you cannot get such a drill, man. "I am sure those letters will at home. As coupons are bought before the flour is wanted, that furnby broadcasting the fertilizer before Several weeks later the storekeeper ishes money to finance the business;

carload of eggs, butter, and other until there is a car to ship to the city.

from which it draws customers? This store has a staff of correspondents, and they send in information which furnishes a foundation for service. farmer Jones intends to build a barn the store can help him with tools and hardware. Farmer Smith has a new baby-it is quickly reported, and his wife is congratulated, and the store serves by selling the things that babies need.

City department stores serve women, understanding that they are the bring it around so the storekeeper visit him. can see it. If the farmer's daughter 9-16. Peter "fell into a trance." The is going to school this fall, she will house-top, flat and easily reached in self if he only knew how. Too often need a sweater, and the store writes oriental houses, was a favorite resort a busy or impatient mother will wait about sweaters to Mary herself, and for prayer. In a trance, or day-dream, upon her child to save time, and then waits on her personally when she while he waited for the food which the next time he wants the same help, comes to buy, respecting her choice which touched very closely his Jewish mother had taken a few moments the before that of her parents, and treats prejudices and traditions. The ancient first time to show him how to help her with an understanding of the law which it had been an essential himself, there would have been no

order houses, or watched farmers' of the truth which he has learned. It Self-reliance means confidence in wives taking the train for a city is not race, orb lood, or color, or cus-oneself. If one can rely upon his own shopping tour. But to-day the countoms and forms of religious practice,



Mr. W. M. Grant, renovated an old orno town there at all—just one ramblIn many ways. When the merlistened to list and a big bag of pills. He came down manifestations of the Spirsomething new. Develop his initiative,

"What?" begged Mrs. Polar Bear, fault with him for what he had done,

Answer:-After spring plowing farmers whose names were given him freight rates, and sells farmers cou- him, and Mother Polar Bear put a

A Home-Made Trailer. My trailer was made out of an old- ure from the poultry house and store late due to the general prosperity fashioned surrey. It was worn very it in a tight container just outside the among the farmers. But there is one little, and stands up under any work building before it is mixed into a fer- thing you'll see lacking in nearly like a new rig. I shortened the pole tilizer. Or, when the poultry houses every instance—there's no good taste to six feet, and had my blacksmith are cleaned out, the litter is placed in exhibited in the color scheme of the make a coupling for the end, and an- the manure spreader, to which is buildings. Take for instance, the other one that fits around the rear added about 300 pounds of acid phos- farm we are passing now: The barn axle of the light car which pulls it. phate to a load of the manure. This is a bright orange, the garage is The surrey didn't cost me anything, combination, we think, makes a mix- painted green, and the house is a and the blacksmith's work cost 50 ture equal to a high-grade fertilizer, dirty brown.

take the corners pretty slow. It does at the rate of about four tons to the ings as belonging to that particular not seem to require much extra power. acre over the soil after the seed is farm. And this helps wonderfully in Of course, a trailer with rubber sown, it gives the rape a quick start, the selling of the farm. tires, bumpers, and so on would be and makes it produce a very luxuriant "Suppose," he went on, "I'm taking still better; but this serves very well, forage. The fertilizer, in all events, a prospect out to look over a farm: and will keep on going until I am contains a high amount of available As soon as the property appears in

Life of a Motor Truck.

A motor truck of standard make, Hatch early chicks from vigorous breeders.

Hatch early chicks from vigorous breeders.

Hatch early chicks from vigorous breeders.

What do you think of a store that has soon as apparent wear is seen. In grain on a bare floor, scatter it brough this way only is it possible to get the maximum service from a vehicle.

Soon as apparent wear is seen. In this way only is it possible to get the maximum service from a vehicle.

Soon as apparent wear is seen. In this way only is it possible to get the maximum service from a vehicle.



INTERNATIONAL LESSON. FEBRUARY 15.

Peter and Cornelius. Acts 10: 1-11: 18. Golden Text .- Romans 10: 12.

purchasing agents of the home, with that is an officer of the Roman army thus spent. a perplexing, responsible job on their corresponding to our captain. Six of The best way to help a child to be hands. This store has built up them were usually attached to a coa service to country women, the pur- hort, or battalion of 500 to 1,000 men, chasing agents for farm homes. May- but they were sometimes detached for pled duties at first, adding more diffibe the farm home needs painting, special duty. The town of Caesarea on cult ones as he grows older. At an Somebody will choose the paint and Roman governor, and was probably off his shoes. Instead of scolding him how to do the color. This storekeeper assumes garrisoned at this time by a band, or for doing this, show him how to do that it will be a woman's selection, cohort, of volunteers from Italy, hence it and also how to put them on again. and sees that the farmer's wife has called "the Italian band." Cornelius After learning this, he will soon try color charts and paint prices. City had a house of his own, and a high to marrage the rest of his clothing; women buy things in small packages place in the regard of the Jews, so to marrage the rest of his clothing;
—starch in one-pound boxes, crack- may have been resident there for before long, he will be able to dress ers in ten-cent cartons, tea in one- some years. He was evidently a man and undress himself with very little pound packages. Country people of exceptionally fine character, de-have more pantry space and go to feared God with all his house, who developed in a child at the same time, town infrequently. So this merchant gave much alms to the people, and for the little one who can take out gives service by selling starch in spe- prayed to God alway." He was a good and put away his own toys, may play cial three-pound boxes, crackers in soldier and gentleman, in the best ten-pound drums and tea in five-pound sense of that term. Whether he had packages. A lot of attention is like- ever heard of Peter, or knew anything a place for everything and keeps wise paid to what goes on around the of the gospel of Jesus Christ before everything in its place, he can have countryside. If a farmer buys a new it is probable that he had (See 10: not have to wait for someone to come drives it have and he is invited to 37.) In the vision which came to him to his assistance. drives it home, and he is invited to he was instructed to invite Peter to Often a child asks for help in doing

is the gospel message, the substance he feels his mother's confidence in Nazareth, how that God anointed him look for the best in our children in-Once upon a funny time a little with the Holy Ghost and with power stead of something with which to polar bear went to sleep on top of an (v. 38.) Peter assumes that they find fault and that if she would cor-Eskimo's house and slept and slept have heard the story, and declares rect smaller faults, remembering that and slept. Pshaw, it was four days that Jesus, who was crucified, is risen before he awoke and then he was stiff "We are witnesses." "We saw what selves. A certain mother once comas his great-grandfather Shaggyhair. He did in the country of the Jews and plained that she did not know why Why he could hardly limp home and in Jerusalem. We witnessed His her child was so naughty when she when Mother Polar Bear saw him death. We saw Him and ate tried to punish him for every misdeed. snuffling into their big cold comfort- and drank with Him after He His father told her that she saw too paws and telephoned for Doctor Penguin.

Doctor Penguin came with a green shall be forgiven." Upon the little

Company listening with rent attention the child whenever he accomplish a with tongues and magnify God." helping himself, but others as well;

"He's caught a terrible a ter- 11: 1-18. When Peter was come up he will grow more and more considto Jerusalem and strict Jews found he simply told the story, sharing his wonderful and convincing experience with them. What could the narrowminded fault finders do but hold their peace and give thanks to God?

can make a high-grade fertilizer cheaply by conversing it carefully. When practicable, we take the mancents. When I load a pig, I place and we use it to sprinkle lightly over "Now, it is just as easy, and cer-

I drive about 18 miles an hour, but swine forage, if we sprinkle manure of unity, and identifies all the build-

sult with the engineers of a good trac- small town are handicaps. Farmers ize the handling of farm stuff and get tions and excellent care. One should Chickens are just like the rest of number of buildings." prefer to buy near home if they are it away to market during the rush expect a certain amount of repairs, us. If they don't have to work, they

Training the Child to be Self-Reliant.

The development of self-reliance is of vital importance in child training. and one cannot begin too early to teach children to help themselves. Often, it is very much harder and may take more time to let them do some. thing than do it oneself; but time and 10: 1-8. Cornelius was a centurion, effort are not wasted when they are

come self-reliant is to give him sim-

with them when he will. If he has

personal importance of that sweater part of his religion to observe, for-to herself.

part of his religion to observe, for-bade the use of certain kinds of meat

nimself, there would have been no The country neighborhood and the (See Deut. 14.) But the vision bade ago a little three-year-old boy came country store are bound up together, him put aside that law, when that to me and asked for a drink. I told Big cities and big city stores con- which was set before him Gor had him to go into the kitchen and get stantly exert a destructive influence had its value, but Peter has to learn glass. "Oh, yes, you can," I replied, upon both. If the country store is that there is a higher law. Thus he "I will tell you how. Get a chair and losing business and the country neight is prepared for the coming of the mes-borhood losing population, the same sengers and the invitation of Corne-on it and see if you can't get the Country merchants used to insist that 30-42 God is no Respecter of Per- glass." He did as he was told and in it was the farmer's duty to patron- sons. The gist only of Peter's speech a few minutes came running to me ize them, and grumbled when they is given. He must have spoken at with a beaming face saying, "I'm a saw goods coming in from the mail- much greater length. He begins with big boy now; I can get a drink all by

try merchant thinks along another that make a man acceptable to God. powers, he most certainly develops line—he admits that it is his duty to The Old Testament itself might have serve farmers, and through good ser- made that plain to the well informed cross the street properly develops his vice bring customers to his store. Jew, if its more spiritual teaching hearing, seeing and reasoning powers.

had not been obscured by the em- Of course, we as mothers, must phasis put by priests and Pharisees guide the child who is self-reliant in upon observance of the law. See for the right direction and the best way example, Micah 6: 6-8; Isa. 56: 15; to do this is to put more faith in him. Psalm 51: 16-17, and especially Let him realize that we expect him Psalms 15 and 24. Compare also Rom. to do the right thing and in nearly The Word Which He Sent (v. 36) every instance he will do it, because of which is the story of Jesus of him. In other words, we must always

When You Paint

I was driving through the country with my friend Hatton, whose business is buying and selling farms. Real estate is his business; but combined with his commercial instinct is the soul of an artist. I was commenting upon the number of new farm Because of its high nitrogen con-buildings that had been erected, or tent, poultry manure is quite valuable were in the course of construction as as a fertilizer, and we find that we we drove along, when my friend interrupted with:

"Yes, you're right; there has been

the loader on the rear of the trailer meadows or crops requiring heavy tainly as cheap, to have one general in which I have a hog box, and we fertilization of valuable food elements. color scheme for all the buildings on We find that in growing rape for each farm. It gives an appearance

ready to buy a truck, or a better food for plants, and should only be sight he is at once struck by the numtrailer built especially for the work. used chiefly on crops that will sup- ber and neatness of the buildings. It port and require heavy fertilization. is the first impression, and it re-The effects of the treatment is seen mains with him after we arrive upon for several years afterward on the the ground. Had the buildings been of various colors, they would not have appealed to him at once as forming Profiteering is taking all you can one large group; and even after reach-

THE ROMANCE OF LACE MAK

BROUGHT TO BRIT BY REFUGEES.

Modern Lace Came F Venice, Probably Offsh of Egyptian Product.

The earliest fabric which desi the name of lace was probably i in Egypt.

early Bible ages was in reality a of embroidery, and not lace in the dinary sense of the word. "Very charming is the derivation the word lace, coming as it Latin lagueus, a snare, allied to in to entice. Hence lace really m

something that allures or entice So writes Mr. Thomas Wright interesting book, "The Romance of Lace Pillow," describing the ris the lace industry in England. in the Egyptian lace that we find origin of bobbin work. A spe taken from a mummy case served in the Victoria and A Museum, South Kensington.

"This primitive work was mad a frame consisting of two ve rods which were kept rigid on horizontal bars. Two found cords were fastened across from near the top and the other nea bottom. The thread to be plaited wound upon these cords. After end had been tied to the top for and under both cords in such a ner as to allow the fingers of worker's left hand to be slipped front of the top cord and the t coming from the back.

"By this means and by using fingers only, the threads were tw and plaited, the front threads ping back and the back threads pulled forward. This plaiting was Upon the completion of each 7 stick was inserted, and the pushed up and down into positio either be secured firmly in the n there would, of course, be tw

ticles." Other Days, Other Ways. tinuous one; and to fasten to plait the threads. Later the f was discarded and the work place

The Venetians claim that lace! is probable, however, that "lace" | its way to Venice from Egypt, to many centuries to do so, and

Venice to Flanders. In 1568 a number of lace maker from their own country by Philip Second. From all accounts they

mostly women, and very industric "The lace they brought with was regarded with wonder and add tion. At first, they settled in the

rning Grouch.

lish churches, although they are t found at several places on the C