# Farm Crop Grop G

The object of this department is to place at the serv to of our farm readers the advice of an acknowledged i thority 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 ment on this paper. As space is limited it is advisable where mediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.

Copyright by Wilson Publishing Co., Limited. L. G. H .: - Every summer our gran- ting the right type of bacteria to

ary is infested very badly with a small grow. worm that gets into the grain which, I think, is called the weevil. We can- Tomatoes-Nature's Wonder Fruit. not keep any grain through the sum- Do you know that tomatoes are mer without it gets wormy. Can you proving to be one of the most iminform me if there is any method of portant of foods? It now appears getting rid of the worms? If there that they are actually the balance any medicine for that purpose, wheel of the daily diet. The study of please inform me where it can be foods dates back as far as human

grain weevil. The treatment is comparatively simple and effective. Pur- to light. A decade ago the foremost chase from a drug store a pint or a theory of food balancing hinged on pound of carbon-bisulphide. This is the idea that flesh builders (proteins), a very inflammable liquid, hence you the heat and energy producers will have to be careful not to light (starches and other carbohydrates) any matches or to have any fire whatsoever about you when handling this material. Place a flat dish on top of the pile of grain in the bin and mpty the carbon-bisulphid into this dish. (Avoid using a metal dish-stone or china is preferred.) The liquid will quickly evaporate, and since the gas coming from it is heavier than air, it will quickly sink down through the pile of grain, killing the insects in the grain. After you have set the has fully evaporated, possibly in a one experiment a family of guinea neglect. couple of days, throw open the doors pigs was taken and all of the little and windows of the granary and the animals were fed an equal amount of offensive odor will very quickly be balanced food which was known not lost. This treatment does not injure to carry vitamines. Half of the guinea the grain either for seed or feed but pigs were supplied each day with onedoes quickly kill the insects.

F. C .:- We seeded a small field of alfalfa the latter part of August, and there are places where it does not grow well. Would it injure the alfalfa mines and showed the place of the to mix ground limestone with manure and spread it on after the ground freezes? There were 550 pounds of hydrated lime applied to the acre about three or four weeks before seeding. Will soy-beans take the place of bran or middlings as a ration for inoculating them?

spaces. In the spring, just before the that can equal them.

of bran or middlings in a ration for and vigorous see to it that they rem or in their wet mash. from the O.A.C. (Bacteriological De- with plenty of growth and healthbeans. Follow the instructions close- is the richest source of vitamines. ly and you should have no trouble get- - Henry G. Bell.



record exists. Information collected Answer:-The insect that you find would seem to indicate that the subin your granary is undoubtedly the ject had been thoroughly investigated,

but new facts are continually coming and fats should be so balanced that the body would develop normally. While this theory was helpful it did sources. Now we know that there are I had never thought of it in this growth of the infant.

half teaspoonful of tomato juice. These animals grew sleek and fat while the others failed to increase in size, became listless and finally some died. This proved the value of vitarich vitamine-carrier-tomatces.

directed that increasing amounts of windows have been carefully made. tomatoes and tomato juice be fed to As the birds have been accustomed becoming full of life and vigor.

hogs. I do not believe middlings can ceive the proper balance of foods and order to incoulate say beans purchase members of the family are supplied partment) a bottle of culture for soy producing forms of food. The tomato

### My Ten-Dollar Junk Heap

Some years ago I attended a farm- is still giving good service. thing in farming."

other items of value had been sold at scrap-iron pile. auction, the auctioneer called our at- A deep-well pump I gave to a man may be given. This is also a good Chairman of the Appeal Committee some fellow offered \$2 for the lot. | at least \$20.

there wasn't anything in the lot worth out. taking away. However, the stuff was In talking about this deal with a kept before the birds at all times. Grit, Eastern Canada, where timothy, red mine for \$10.

a new machine I had recently pur- means about four whole days' work a comfortably housed and fed as sug- chased. It worked so well that I sold year. The average binder sold is turn- least to the farmer.

To each we gave a little rem- revolved around the earth. Judgment dish at noon. Why not a warm hunch sent to the farmer.

er's auction. This farmer, a friend of Among the lot was a binder, rusty, commended: In the morning a light mine, had inherited his farm, together loose and shaky; but after looking feed of scratch grain scattered in the of our duty. With the approach of with some money and property. After over the working parts, I knew I could litter may be given. Fresh water is Christmas, may I place these facts farming some six years, he sold out have repaired it for a small sum. It also given at this time, and, where before your readers in connection because, as he put it, "there isn't any- wasn't worn out-just in a dilapidated possible, milk. At noon a light moist with the 47th Christmas appeal of condition from neglect. Having no mash of table scraps dried off with the Hospital for Sick Children? After the stock, machinery and use for a binder, I threw it in the the dry mash mixture, or the dry

tention to a pile of junk near the barn. who, at a cost of less than \$2, made time to give the green feed such as No one seemed interested-finally a first class pump of it. It saved him sprouted oats, mangels, cabbage, etc.

manufacturing plant nearby and was rakes and forks with broken handles; so that if a variety can be given it ing and curing sweet clover hay at shipping some scrap-iron. I could see broken neck-yokes and whiffletrees is advisable to do so. In the evening Ottawa have been given out by Mr. that this junk heap had in it two tons with good irons; discs that needed a full feed of grain is scattered in E. S. Hopkins, the Dominion Field or so of iron, so I bid \$10. The auc- only sharpening; chains minus a hook the litter early enough so that the Husbandman. Without repeating the tioneer smiled, everybody else laugh- at one or both ends and, in fact, any birds may be able to get a full feed figures that he supplies, it is only neced and even my farmer friend told me number of articles that were not worn before time for roosting. In addition essary to quote the conclusions reach-

farm-machinery agent, he said: "Come shell, charcoal and beef scraps should clover, alsike, and alfalfa grow so The following day I had it taken to think of it, I don't believe I have also be constantly before them. The well, it seems to be a mistake to to the plant where I was working, and ever seen a binder that was actually necessity for a liberal supply of green change to sweet clover, which not only and the Junior Institute enjoyed a in looking it over found the following: worn out." After studying a little, he feed in some form, and also the supply yields less but makes inferior hay. One lawn-mower, badly rusted, dull. said: "You have spent most of your of animal feed, which may be conven- He also points out that in certain but otherwise all right. It showed life around factories. When a nut is iently given in the form of milk or parts of the Prairie Provinces, where collection of one cent a meeting is the "cull" out of agriculture. very little wear. This mower had loose it gets attention at once. Bear- beef scrap, cannot be emphasized too the climate is extremely dry, sweet cost about \$18. I cited and sharpened ings are kept oiled and re-babbited strongly. when necessary. Shafts and gears are If the flock begins eggeating or crop. At the Central Experimental some prize money to the local School while city life tends to destroy it. A mowing-machine-pole broken, kept in line. Consequently, you run feather-pulling, the fault usually lies Farm at Ottawa this year, not only Fair. knife-bar speiled from rust and ne- machines day after day for ten or more with the feeder than with the was the yield of sweet clover less in knife-bar speiled from rust and ne- machines day after day for ten or glect. The gears and working parts perhaps twenty years, unless some flock. It is much easier to prevent quantity and inferior in quality to glect. The gears and working parts perhaps twenty years, unless some flock. It is much easier to prevent quantity and inferior in quality to glect. The gears and working parts perhaps twenty years, unless some flock. It is much easier to prevent quantity and inferior in quality to glect. The gears and working parts perhaps twenty years, unless some flock. It is much easier to prevent quantity and inferior in quality to glect. The gears and working parts perhaps twenty years, unless some flock. It is much easier to prevent quantity and inferior in quality to glect. of this machine were worn very slight- new invention renders them useless, these troubles by careful feeding than alfalfa and the other crops, but it stitute has decreased during the last water, pay in winter, ly. I put in a pole and new knives, A farm binder is a different problem, to cure them after they have started, took from sixteen to eighteen days to year. At present we have fourteen thinking it would do to mow some The average farmer cuts, say, thirty If the pullets are from bred-to-lay dry, and then was in a half rotten members. Two of our girls have gone Common horse sense is all right in Do the children look as well as they thinking it would do to mow some The average farmer cuts, say, thirty rough ground we had, thereby saving acres with his binder each year. That strains, early hatched, well-grown, conditions, to other districts to reside and three its place, but it would make us believe did when they started back to school conditions, and that the world was flat and that the conditions to other districts to reside and three its place, but it would make us believe did when they started back to school conditions. a new machine I had recently pur- means about four whole days' work a comfortably housed and fed as sug-

The best Fine Cut Tobacco for Rolling Your Own. 15° per packet -1/2 lb. tin 80¢ OGDEN'S LIVERPOOL Cigarette Papers with Each Packet

other principles at work in the food way. Of course, there are plenty of Dear Mr. Editor,which scientists call vitamines. These farmers who do take care of their vitamines have to do with the actual machines, but we know some who would have trouble making a binder Experiments have been conducted last even ten years. I know of some liquid out be sure to close all doors which have demonstrated the truly who have completely ruined a tractor and windows tightly so as to keep the marvellous results of the proper in one year, and it hasn't been due to gas among the grain. When the liquid choice of vitamine-carrying foods. In any accident or unusual cause-just



winter quarters early in order that they may have time to settle down before they begin to lay. Before putting them in, make sure that the houses have been thoroughly cleansed and In the Children's Memorial Hospi- disinfected and that all necessary re- to extend the mission of healing to tal in Chicago the physicians have pairs to roofs, side walls and broken the uttermost parts of the Province.

ill-nourished infants. The result has to open air conditions, it is essential pigs or cows? What is the method of been truly marvellous and the chil- that proper ventilation be given and dren have made wonderful progress, care should be taken to keep the front Of late a new and unfortunate of the house opened up. It is also factor has added to the responsibili-Answer:-I would advise you to ap- Further investigation of tomatoes important that the supply of green ties which the Hospital must assume. ply the lime and manure separately. as a food shows that their adaptation feed should be in no way restricted; You have noticed, no doubt, the If the ground is not covered by snow, is almost universal. For correcting green feed is of great importance at scatter lime in any form over the bare digestive disorders there is no food any time of the year, but at this period it is absolutely necessary. As the snow is gone, scatter manure over Ohio State University has recently birds have just come in from the Many of them are little waifs of these spaces also and sow more alfalfa issued a bulletin detailing the rich- range where the supply of green feed the poorer sections where the streets seed. As the frost goes out of the ness in vitamines of various foods in- has been plentiful and varied, an enground the seed will work into the cluding cereals, fats, meats, fruits deavor should be made to give them a cracks left by the frost and a good and vegetables. The writers find that variety, such as chopped clover, stand of alfalfa should result. Of tomatoes are by far the richest in all sprouted oats, mangels, or other forms course, if the patches where the al- three kinds of vitamines. The tomato of tender succulent feed. Grain should falfa does not grow well are in areas is excellent in its raw state and for not be fed too heavily at the start and of your field where there is poor centuries has been used with the pullets should be made to scratch drainage the only cure will be to put greatest benefit to mankind. It is for the grain feed given them as the greatest benefit to mankind. It is in tile drainage, but I am assuming even more beneficial when canned. exercise is necessary to retain good that the cause of the failure has been Hence at no time in the year need health. They should be watched close- of humanity, and has the satisfaction your table be devoid of this health- ly and if any signs of sluggishness are of knowing that the result of his Soy beans are rich in protein, hence giving and growth-producing food. If seen a little Epsom salts should be individual contribution is bringing will to a large extent take the place you want your household to be happy given, either in their drinking water loy into at least one home by assist-

If the chickens have been henbe so successfully used for cows. In especially that the young and growing hatched it will be absolutely necessary the public and the conversion of dolto treat them for lice, in fact it is ad- lars into health and strength will. visable to do this whether they are am sure, meet with your approval hen-hatched or not.

> As soon as the birds have quieted down and become accustomed to their GREAT MOTHER CHARITY. new quarters the regular routine of Every day sees a large number winter feeding should be commenced. additional patients on the Hospital's Each individual feeder has his own register. Owing to the advanced cost ideas as to the best methods of feeding, but the following system is remash mixture moistened with milk.

The more of this green feed that the At the time I was dismantling a The lot included numerous hoes, birds can be induced to eat the better, The results of experiments in growto this a hopper of dry mash should be ed. These, in a sentence, are that in

## COLLEGE ST., TORONTO.

Realizing that the trend of public opinion is swinging more and more towards the equilization of the burdens which each citizen of Canada must bear, that the helping of those who are unable to help themselves occupies a much larger place in our minds, may I draw your attention to the fact that this Hospital is accomplishing great things in a field that is untouched by any other organiza-

Little children from all parts of the Province, irrespective of class or creed, children who are sickly and maimed, come here and are made strong and healthy. Is not this in tself a wonderful work?

The service and the duty of the Hospital is far-reaching. As well as personal attention, both surgical and medical, for all the tiny patients, The entire function of the Hospital must commend itself to you and your readers. It is a CHILD

WELFARE work well deserving of the support of your subscribers. Province in the majority of which

for 1922 attendance:

Cot patients ..... 256

work is your responsibility as well

Faithfully yours. I. E ROBERTSON.

Sweet Clover.

clover makes a very valuable hay Hospital in London. We also donated Rural life develops family unity, chased. It worked so well that I sold year. The average binder sold is turnthe new machine all over to the scrap heap in ten years keep hens," is not likely to arise. | embrage that in after years will call based on facts is a better guide. | served to achoo!? It can be done,

# not tell why there was a difference in the results obtained from equal ambinder does between forty and fifty ounts of food coming from different days' work during its lifetime." Hospital for Sick Children or less. In other words, the average their desire counts of food coming from different days' work during its lifetime." Hospital for Sick Children or less. In other words, the average their desire counts of food coming from different days' work during its lifetime."

### From the Junior Institutes' "Round Robin" Letter

We had various joint meetings where Institute work. we held debates and discussions with As educational features, we read ish, and it undoubtedly does, but i

munity, proved very educational, be- formerly.

and also served the lunch. sketches of Canadian authors.

School Fair Day.

Junior Farmers' Association.

meeting twice a month, on the first spent day. and third Tuesdays. At each meeting We added some repairs to our Com- stead of grumbling we should become chant of Venice," "Social Responsi- preserves for the R. M. Hospital. bilities," "Canadian Authors." We We feel that our Institute is a very for this reason the helfer calves are

Social and Recreation—During the more. fall and winter we had two community Next year the District Annual ing of equal parts of corn and linceed gatherings. One took the form of I Meeting is to be held in the Commun- meal. music. At the latter a collection was welcoming all who can attend.

taken up. This proved a financial success, ization, The Women's Institutes

as we took in fifty dollars, some of which had to be paid out as expenses. As an outcome of the Club we have

In August the Women's Institute picnic together at Springbank.

Relief Work-At each meeting a taken up in aid of the Sick Children's

The Ripley Junior Institute was | forth pleasant memories of happy organized the last week of January, days spent with the Janey Canuck which most of us very rarely get en-1922, at close of the Short Courses Girls. However, we have held our tirely rid of. With all its cuteness held here in agriculture, domestic regular monthly meetings from home the baby is the most selfish individual science and sewing. These courses to home in winter time and in our Unselfishness or consideration of were well attended and in every way Community Hall in the summer others, comes as a result of our con were most profitable and enjoyable months, and kept interest alive in the tact with other people. Education and

the Junior Farmers' Association. Also and studied "The Little Blue Books" also adds a multiplicity of duties and community singing, violin and orches- and "Why and How to Use Milk." We activities in which we become so entra music were practiced. These also had a travelling library. Our grossed so that we often forget our courses closed with a banquet held in literary society was reorganized, but our Township Hall, which was crowd- since many of our young people are ed for the occasion. This, being the attending high school and university, first function of its kind in this com- the attendance was smaller than cold hearts and indifference of so-

sides being enjoyable and successful. We held our annual "At Home" At a Valentine Tea at a home here dance in our Community Hall in the of red flags. Cold hearts and cold on February 10th, the Juniors assist- Christmas holidays when our young feet are national perils." ed the Seniors in the musical program people were home for the vacation. Owing to illness we were unable to noisy and noticeable. We know he is At a joint meeting & Juniors and hold our annual concert. However, our problem because he advertises Seniors in April, the Juniors assisted we held a Valentine Social evening, at himself as such. But indifference is the Seniors in the program by giving which a debate entitled "Resolved that quiet, spreading no propaganda, and it is more advantageous to marry a therefore is not recognized as a prob-Our chief objective for this year is city man with a salary of \$1,000 per lem. It is, however, insidious in its to purchase and select some new books annum, than a farmer with 100 acres effect on our body politic and our for our public library. For a begin- of land" was given. The negative side social organization. Perhaps the reaning we donated some of our funds won. We hold skating parties on the son we do not notice it is because realized from a refreshment booth on lake in winter time. We have a most all of us can be accused of being basket ball team and play games with afflicted with some degree of indif-This winter we plan having debates, outside teams. Our annual Basket ference. The trouble is with us, and discussions and programs with the Picnic, to which the entire community therefore we can not see it. is invited, was held in August at the Radicalism thrives on public indiflake. The Junior Farmers, together ference and grumbling. But it would

with the Institute Girls, motored to not have a ghost of a show if each of Doings of Komoha Junior Institute, Kemptville Agricultural Field Day. us would encourage loyalty to govern-Aside from being an enjoyable outing, mental institutions and quit grumbl-Education-Our Club holds its we found it a very instructive, well- ing until we were sure we had due

we have a topic, usually taken by one munity Hall, and also completed the factors of construction instead of deof the members. Our topics cover a furnishings of some necessary linens struction if we would do our little part fairly wide range of study. They are for the "Janey Canuck" private room in helping to overcome the difficulty chosen by a committee every three in the Rosamond Memorial Hospital months. Some of the things we had Almonte. We also gave some assistpapers on are: "A Course in First ance to a needy family in the district Aid." "A Woman's Education," "Milk who had much illness during the winand Its Care and Uses," "The Mer- ter, and held a shower of pickles and

try to make our programs interesting small one, but we are all farm girls, unduly neglected. But We have all the girls in the district should be kept growing normally We have also a "Club Paper" con- so cannot add many new members. We With silage and clover or alfalfa hay, taining choice poetry, cooking hints, have never once neglected our organ- one should feed each helfer from two current events, local news, and sense ization, because, aside from the work to five pounds of farm-grown grains and nonsense. One girl acts as editor- accomplished, a spirit of comradeship per day. If no cilage is available, in-chief for three months and different and friendliness amongst the girls has feed two pounds of corn daily with all members look after the departments been formed which otherwise would the clover or alfalfa bay the helfers not have existed. In the coming year will consume. With silage and no At our meetings we have music we hope to accomplish more work, and legume hay, a good ration consists of (vocal and instrumental) and readings, as time wears on to improve more and a portion of silage and folder or mix-

During the summer we held a to give you a report of our activities, zoo or in the jungle. He is more "Lawn Fete." There was a program and in closing, I want to say that we vicious and treacherous than most of consisting of music and readings. A are indeed proud to celebrate with the them, and with such a reputation no booth was on the grounds at which other Branches the twenty-fifth anni- man should trust him for a minute, no the girls sold ice cream and home bak. versary of the now world-wide organ. matter what his record for good be-

Pat's Family.

during the summer playing with other situation, "that you have a big family ranged that handling would not be

and the ould coman." Our great object should be to take

way to water milk is through the cow.

HELP, DO NOT

Said the boy, "I wish I could some chickens to raise, so I could earn a little money." Said the father, "Oh, it would be too much bother and you wouldn't make anything cut of

The Dad was wrong. He should have said, "That's the stuff. Go right shead. I'll give you a couple of hens and a rooster, so you can have some hatching eggs next spring. You keep a record of what feed you use and you can pay me for it after you get

Encouragement is one of the greatest factors in the proper development of youth. To discourage any laudable ambition of the young is to place a handicap on them which is more last-

ing in effect than we realize. How often we old folks have wanted to do things, constructive things, which we did not do because we lacked the confidence and had the fear to try. We can help to overcome this same feeling in our children by giving them as free a reign with their constructive desires as we possibly can. Some of these urgings of youth seem a little foolish to us and may prove their foolishness to the youth after a trial, but the mere trying will add to the boy's confidence to do things.

Hundreds of boys and girls have been given years of advancement in life by following their urge through the guidance of the boys' and girls clubs. Many in their teens are well on life's occupation, because their desire to do things was helped and guided by good leaders.

Selfishness is a primal civilization chould make us less self-

A noted educator has said that "the called civilized people are more men acing than the bolshevists and wavers

The bolshevist, or red, is rampant

ed hay with a grain mixture consist-

Hallowe'en Party and the other con- ity Hall at Union Hall for the first No man trusts a tiger until it is sisted of a debate and program of time. We will take great pleasure in dead. A bull, although he uses an entirely different method, can do just I have tried as briefly as possible as much damage as any animal in the havior has been. ""Mean" bulls perhaps have killed fewer men than those considered safe.

A bull led on a staff attached to the "I understand, Pat," said an employ- ring in his nose may save a tragedy baseball team who are kept busy er, interviewing an applicant for a Better still, keep him in a pen so arnecessary at all. Every farmer who "Yes, sor; ten childer, seven pigs, owns a bull would do well to put up this warning in his barn: "Watch the

> To burn dead raspherry canes now will help control anthracnose next