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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izer carrying 3 to 4 per cent. ammonia that the soil is an average loam. The air they sink down between the beans for the asking by any Institute from use of nitrate alone, I am afraid, and kill the insects which have form- the Department of Health at Ottawa. would cause too rapid & wood growth, ed within the seeds. leaving the wood sappy and in such for it to suffer severely during heavy

frost. and field corn?

Answer: Your question is rather indefinite. You may mean one of two things. First, what is the value of the fodder from sweet corn after the ears have been picked as compared with field corn? If this is your minion Cerealist, described in his remeaning the answer as given by Henry & Morrison in their book on Feeding is as follows:

Analysis in Percentages.

Carbohydrates

Crude Prot. Water Fibre Ash W. Sweet 12.2 9.0 26.4 9.2 1.8 6.5 7.8 27.2 47.3 2.2

Carbohydrates

Crud Prot. Corn Ash 7.9 7.9 W. Sweet 9.3 1.8 11.5 2.3 67.2 10.5 1.5 10.1 2.0 12.2 10.4 1.5

into a bunch of beans?

Answer: The bugs in your beans are likely the Bean Weevil. This in- of Huron. sect passes the winter as a fly, appearing early in the spring after the beans have flowered and the young must dwell; the country a place where the surface of the young pod. As soon as these eggs hatch out they bore into the bean seed where the The rube farme young larvae feed and grow rapidly. The nube farmer of ten years ago young larvae feed and grow rapidly. The next step of development is gone through inside the channels of the into his eyes when he drove into town in his \$5,000 hypersix, and he was

L. G.: I set 65 trees (apples, pears, There are various plans practiced cherries) two years ago; mulched to combat the insect. One is to heat the home-maker and country comeach fall with barnyard manure. The beans up to 145 deg. F. as you munity. The close and effective part-have suggested. This kills the in-nership between the local Institutes and vocal, readings, and short spicy and the Institutes Branch of the Decommercial fertilizer should I apply other method is to put the beans into partment of Agriculture has resulted son of dancing and the heavy orchestral munity. The close and effective part-have suggested. This kills the in-nership between the local Institutes and vocal, readings, and short spicy and the Institutes Branch of the Decommercial fertilizer should I apply other method is to put the beans into partment of Agriculture has resulted in a very efficient bit of administrato each tree? Have some 2-10-2 on hand, or would nitrate be better?

Answer: As your trees are young the fartility treatment and put in a very efficient bit of administration to administration and the fartility treatment and t the fertility treatment should be enthrely planned to force growth as rapidly as is consistent with well rounded material, being careful not to force wood growth to such an extent that the twice well suffer during the control of the work of the college and other provincial Departments. Is the baby sick? There is Dr. MacMurchy's color and is quite inflammable, so that tent that the twigs will suffer during care must be taken not to have any the asking in every Institute. the severe cold days of winter. I fire in the vicinity when treating the would, therefore, advise the use of beans. The treatment is best carried saucers and 10 to 12 per cent. phosphoric acid. are set immediately on top of the partment. 2-10-2 fertilizer is better adapted to beans. After the liquid has been grain crops, but could be used with placed, cover the barrel with several profit on orchard crops grown on a thicknesses of bag or closer woven loam soil. You have not men- material, or put an air-tight top on tioned the type of soil and my re- the barrel. Since the fumes from the commendations are made assuming carbon-bisulphide are heavier than

Some bean growers find it good shape that there would be a tendency practice just before seeding to empty their seed lightly into a tub or bucket of water. The infected seeds are usu-C. B.: What is the relative value ally so light that they float. These for feed in ripe husked sweet corn can be skimmed off and the remaining seeds spread out to dry immediately.

> Wheat and Flour Storage. Among the most interesting tests

carried on by Dr. C. E. Saunders, Docent bulletin on Wheat, Flour and Bread, is that of the effects of storage on wheat and flour. These tests covered a number of years, as many as thirteen as a matter of fact. He remarks that there seems to be a general opinion current among millers and bakers that flour from new wheat is of inferior quality for bread-making, but that in the course of a very few months, whether kept as wheat Second, what is the value of the place, and that it is believed that flour ear of sweet corn as compared with retains its highest baking qualities that of flint and dent corn? Here is only for a few months. Dr. Saunders found that flour from Yellow Cross wheat, made from the 1905 showed a baking strength of 86 in baking strength of 95 in February, 1907, and of 101 in March, 1908; and 70.9 5.0 Downy Riga, grown in 1906, a 69.4 5.0 strength of 81 in February, 1907, and Of course the protein, carbohydrates and fat are the feeding construction of 104 in February, 1908. In order to study more thoroughly this important than deep bins and are much to be stituents of value. The differences problem of storage, seven kinds of in these figures will give you the wheat were chosen from the 1907 crop bags. Moreover, when the potatoes nswer to your question.

S. H.: I can't get clover or alfalfa when ground and when baked indiduring the winter, more especially to start on my soil. The soil is rather cate that wheat generally improved Would like to know what by keeping a few years. Huron kept they will be more quickly noticed I should do to get clover and alfalfa a month after grinding showed 82, to grow. Can alfalfa and clover be kept three months after grinding in ditiously handled from the boxes than I should do to get clover and alrains to grow. Can alfalfa and clover be sown in the fall with rye?

Answer: I would not advise sow. ing alfalfa or clover in the fall when seeding fall rye, but you could very Yellow Cross showed 74 in 1907, the one to pof the stand of rye in the spring as soon as good growth has started. By a light harrowing of the started. By a light harrowing of the sufficiently deep into the soil, Excelly you could readily work the seeds sufficiently deep into the soil, Excelly a tendence of the stands of clover and grass seeds.

In trapnesting for the solection of the temperature down before the spring as soon as good growth has started. By a light harrowing of the sufficiently deep into the soil, Excelly 1009 and 101 in 1913. Some samples

In trapnesting for the solection of the temperature down before the temperature down before the potatoes so cool and dark that sprouting is discouraged. It is highly important that potatoes be stored only when quite dry.

It will be well, more especially a year like the present, to see that the potatoes for egg-laying ability is a report of the solic of the solic of the stands of clover and grass seeds.

In trapnesting for the solection of the temperature is allowed. To the temperature down before the temperature is allowed. To the temperature down before the temperature down before the potatoes so cool and dark they appear the better the potatoes so cool and dark they appear the better plan is to keep the potatoes so cool and dark they appear the better plan is to keep the potatoes so cool and dark they appear the better the potatoes and the general appearance of the well to admit outside air at night, closing the windows or other opening in order to take off the sprouting be delayed but the tubers and the potatoes are the side, a good distance that they are the potatoes are the side, a g In preparing your ground Red Fife, for instance, in 1910 showed apply a good dressing of lime this 108, Stanley "A" 100 in 1911, Chelsea fall, so as to sweeten the top areas 102, also in 1911, and Turkey Red the of the soil where the young crop will same year 103. Storage of flour from grow. When seeding your rye apply only three kinds of wheat is tabulated about 300 lbs. per acre of a fertilizer owing to the destruction of other Why did you leave the farm, my lad? I'll roll aside my hazy bank, analyzing 3 per cent. ammonia, 8 per samples. These show that after the Why did you bolt and leave your Dad? The misty cloud of theories, cent phosphoric acid and 3 per cent, best year a gradual decline in baking potash. This material will give the strength takes place. All were ground rye a good vigorous start and will spetember 16 or 17 in 1907. In Januprovide readily available plantfood ary, 1910 and 1911 the baking for the young clover and alfalfa as strength of Huron had reached its They seek to know the hidden area. provide readily available plantfood ary, 1910 and 1911 the baking for the young clover and alfalfa as strength of Huron had reached its They seek to know the hidden cause soon as you seed it in the spring.

T. B.: Please advise me what causes beans to get bugs in them, was 1910, when the strength was 192; the spring to reached its lines seek to know the nidden cause pinnacle, namely 107; in 1912 it had Why farmer boys desert their pa's. Some say they long to get a taste of the strength was 1910, when the strength was 199; of faster life and social waste, and the strength was 1910, when the strength was 195; of faster life and social waste, and the strength was 1910, when the strength was 195; of faster life and social waste, and the strength was 1910, when the strength was 195; of faster life and social waste, and the strength was 1910, when the strength was 195; of faster life and social waste, and the strength was 1910, when the strength was and what becomes of the bugs after in 1921 it was 95. The best year for And some will say the silly chumps they come out of the beans? At what stage are these eggs laid in the strength was 111. In January, 1921,

Yellow Cross was 1911, when the strength was 111. In January, 1921,

The best year for And some will say the slily chumps Mistake the suit cards for their trumps, stage are these eggs laid in the strength was 111. In January, 1921, it was 100. In 1907, the year of grind-log of ones become bug-resisting? Is Fife's 98, and that of Yellow Cross there anything that can be done to 74. The decline of the baking strength the peak year had been reached.

Strength was 111. In January, 1921, it was 100. In 1907, the year of grind-log of the atmosphere and germless air lit's not the smoke in the atmosphere. Nor the taste for life that brought me here;

To free your mind and state your case. Please tell the platform, pulpit, press No face of tell or love of dress. was more gradual in the case of Red Well, stranger, since you've been so Is driving off the farmer lads, Fife and Yellow Cross than in that frank But just the methods of their of

The rube farmer of ten years ago accelers a full grown yer coally August. and he was wiseguys who had been poking fun at him,

Among the Women's Institutes of Ontario

Getting Ready for the Conventions. These are busy weeks among the Institute Convention Committees of rural Ontario. Five annual conventions must be held this autumn to meet the growing needs of the Branches. One will be at Fort William for the northwestern area, another at North Bay for the north, and three others at Ottawa, Toronto, and after the harvest and the holidays. London for the three divisions of old Ontario.

All are stressing the study of methods of improving the local branch, the court of last resort in Institute work; also how the various Government departments, Public Health, Education, Child Welfare, and Agriculture may more effectively serve

How much should it weigh? How should it be fed? There is an atfrom 5 to 8 lbs. per tree of a fertil- out by pouring the bisulphide into tractive set of Child Diet booklets or deeper receptacles which available from the Public Health De-

Does the engaged girl want to know "How to build the Canadian house" or "How to make a Canadian There is in preparation that delightful Home Series, "The Little Blue Books" which aga'n may be had Do the girls want a place? There is the Girls' Branch or Circle.

A Community Party. The successful Women's Institute believes vigorously in a balanced life and a balanced Institute program. "Something to see, something to hear, and something to do, and you have an interesting meeting," will say the members. Demonstrations accordingly are in high favor.

The St. William's branch gave a

known to themselves, to the rest of the province of a community party at their last meeting.

Several new families, some of them from outside our own country, had moved into the neighborhood, one family were leaving, another had been bereaved. It was the beginning of another Institute year's activities Welcome, send-off and sympathy were

all expressed in the evening's doings. Every member of every family was invited, also a neighboring branch. The young people responded in a way that was a real inspiration. The two orchestras played. "Old girls and boys" dropped "over home" cities and towns and delighted the folk with the part they con-

The outstanding feature of the evening was the President's address in which she outlined anew the aims and objects of the Institute, emphasized the motto, "For Home and Country," referred briefly to the remarkable but, as she said, past, Institute achievements, in the Great War, and laid before the gathering the plans for a better and happier community for the coming year, and improved homes. These plans included teaching to advantage mödern home-making and the use of laborsaving machinery and methods, helping the girls of to-day prepare to take over the responsibilities of the future beautifying the community cemeter ies, getting wholesome recreation and educative entertainment for this winter, securing the Chautauqua for the five winter months, welcoming the new-comers, and carrying out in practical ways the principle of the Institute, co-operation.

After a merry time over the refreshments, the party broke up at eleven o'clock, refreshed and benefitted by a wholesome evening's recreation and wondering "where the time had gone so fast."

And there was nobody to feel badly The St. William's branch gave a because he "hadn't been invited to remarkable demonstration, all un-

Storing the Potato Crop.

The lightness of the potato crop in Ontario and the eastern provinces owing to the long continued drought earlier in the season will render it profitable to save all the tubers possible. Reports from agricultural representatives indicate that even the light crop being harvested is in many cases affected with rot. It is useless to put away in permanent storage potatoes that are affected with disease because those that commence to decay are likely to contaminate the rest crop, of the pile. If potatoes are found to be diseased at digging time a good March, 1906, and of 104 in February, where it is dry and where frost can 1907; that Tasmania Red showed a be kept out for a time, and spread the state of the sta the potatoes in shallow piles. If, however, the crop is small and no rot is evident, the storing can be done as well first as last in the cellar. Boxes than deep bins and are much to be preferred to keeping the potatoes in at Ottawa. Tables of results showing commence to sprout, as they will do

storage is as perfect as possible. A dry, well-ventilated cellar is the best

pense of providing a good system of ventilation would be soon offset by two weeks time for the change tatoes keep. Experiments carried on good results are obtained by providpotatoes stored. should be nailed a little distance apart air behind the pile. A temporary floor should be put down about six inches above the permanent floor with cracks between the boards. This will permit air to circulate under and through the pile. Then if large quantities are to be stored together ventilators of wood made of slats and running from the top to the bottom of the pile could be put in here and there through the pile. This, with the ventilation afforded at the sides and bottom will give very good conditions for storing. If, however, as already pointed out, the quantity to be stored is small, it is more satisfactory to keep the potatoes in crates or boxes

more particularly if disease is feared. store house should be kept as nearly

The sting of a bee is only about onesort of storage to provide. The ex- thirty-second of an inch in length,

Why Some Boys Leave the Farm

Why did you beat it off to town

Because my colt became his horse; I left my Dad to sow and reap, Because my lamb became his sheep; I dropped my hoe and struck my fork Because my pig became his pork; The garden truck that I made grow,

No fear of toil or love of dress But just the methods of their dads.

While Others Stay at Home

With dad and me it's half and half. The cow I own was once his calf. I'm going to stick right where I am, Because my sheep was once his lamb.
I'll stay with dad—he gets my vote, Because my hog was once his shote. No town for me—I'll stick right here, For I'm his tractor-engineer. It's "even-split" with dad and me In a profit-sharing company.

We work together from day to day— Believe me, boys, it's the only way.

BABY'S HEALTHOGRAM

In the interest of Baby who too often knows what it is to be dandled and kissed but is made to suffer in its "little healths," we publish the following good Healthogram:

I AM THE BABY

I am the Baby. need good Schools in which to learn I am the youngest institution in the the lessons of Life. world—and the oldest. I want to live, laugh, love, work,

The earth is my heritage when I play. into being, and when I go I come into being, and when I go I I want to hear good music, read leave it to the next generation of good books, see beautiful pictures.

My mission is to leave the earth a and Railroads and Cities. better place than I found it. With my million little brothers and in the waters, and play in the snow. sisters I can do this, if the World does not impose too many handicaps. morrow. Now I need Pure Milk and Fresh If you Air and Play.

When I am a little older I shall

BABY WILL BE WELL AND HAPPY IF HE-Has the right food. Is kept dry and clean. Sleeps alone in a quiet, cool place. Is ke Is given pure, cold water to drink. crowds. quitoes.

Has a bath every day. Has his meals served on time. visitors

Breathes fresh air, day and night. Is NOT kissed on the mouth, even Is dressed according to the weather. by his mother. BABY WILL BE UNHAPPY AND CROSS IF HE-

Is given a pacifier. Is taken up whenever he cries. kept up late. Is bounced up and down.
Is dosed with medicines.

Is bothered by flies and mosquitoes.

Is allowed to go thirsty. Is fed at the family table. Is not kept dry and clean. It taken to the movies. Is teased and made to show off. Is not a Fresh Air baby.

I want to build Houses and Roads

I want to walk in the woods, bathe

I am Yesterday, To-day and To-

If you will make my way easy now,

I am your Hope-I Am the Haby.

Is protected from flies and mo

Is kept away from sick folks and

Does not have to be shown off for

will help you when I grow u

IT IS EASIER TO KEEP BABY WELL THAN TO CURE HIM WHEN HE GETS SICK.

110.05

Usually at this season of the year there is an increase in the amount of disease in the swine herds. The aggravating cause often is the changs from dry to green corn. Hogs ac-customed to dry feeds all summer are put upon green corn quickly without being allowed enough time for their digestive systems to become accustomed to the radical change in feed. Then disease which had not been able to get a hold upon the hogs when healthy begin to affect the

weaker ones of the herd. Prevention of such disease attacks consists in avoiding too radical feed changes. By allowing ten days or the better condition in which the po- green corn, with a gradual elimination of dry grains, there will be less at Ottawa would indicate that very chance of lowering the animal's resistance to disease. Feed also with ing air space below and around the the green corn some protein feed, such To do this slats as tankage or linseed meal. Experiments show beyond a doubt that hogs about four inches or more from the so fed are healthier and make more wall. This will give a circulation of rapid and cheaper gains than those fed on corn alone.

Wanted—A Man to Lead.

There isn't a lad but wants to grov Manly and true at heart, And every lad would like to know

The secret we impart. He doesn't desire to slack Oh, haven't you heard him plead? He'll follow a man at play or work If only the man will lead."

My Garden.

a little garden. I planted lots of seeds
And watered them and watched them And pulled up the weeds. And now I have a pansy And a pumpkin and a bean And three tall hollyhocks

With leaves big and green And best of all, a daisy I found out on the hill. I dug it up and brought it home.

And it is smiling still! The Frog Pond.

wonder what is down that way,

In the water brown and deep What makes the little groggies say, "Kr-r-reke, kr-r-reke, kr-r-reke?" They hop along the bank and plunge, But soon they rise to speak.

think they say, "Come in and play! "Kr-r-reke, kr-r-reke, kr-r-reke." wade around; they keep so still

I cannot hear a peep.
When I come out they raise a shout, "Kr-r-reke, kr-r-reke, kr-r-reke!" They seem to play a funny game;

It's like our hide and seek.
Look, there sits Tad behind a pad, And calls, "Kr-r-reke, kr-r-reke!" Ambition is always attained by travelling a tedious, tiresome road.

SELECTING THE BREEDERS

There are two ways of selecting curved beak, lack of color in shanks,

must necessarily be a healthy fowl, pelvic bones for egg-laying ability is and with ordinary precaution one can not go far astray in selecting her are likely to have difficulty at times for the breeding pen.

In selecting by observation, health and vigor must be the main factors. The individual selected should be active and carry her body in an erect and proud fashion. The comb should be bright red in color, soft and velvety; the eyes should be steady and clear. A fowl that stands moping around or roosts in the daytime is either weak or sick, and should never be selected, no matter what her record

Although feathers are only a covering for a bird, some attention must be continually with the hens be paid to them also. Good feathered Breeders do not require birds not only look better but sell better. Size and shape are also important in a dual-purpose hen; good, heavy layers, of large size and uniform shape, with vigorous constitu-tions, are the ideal stock to breed considering the whole country by from.

A good layer can invariably be dis-tinguished by her actions and willingness to scratch for food. If examined on the roost at night, it will be rough that she has a full crop. This, too, is a good indication of health. A hen may be compared to a small factory may be compared to a small factory that has raw material and eggs either pulleds or hens are good as are the finished product. The output treeders, but each must be handled is greater when the factory runs effi-ciently and consumes larger quantities of raw material.

(in single-comb varieties), a short proper'y fertilized.

good breeders; one is by trapnesting worn-off toe-nails, are all indications The temperature in the cellar or and the other by observation and of laying ability. It is said that hens study. That trapnests are of the lose color in the shanks because they 33 to 35 degrees Fahrenheit as possible. Not only will the disease and has been demonstrated by the experi-

in estimating the distance, especially if the hen is an old one with much fat. The distance between the pelvic bones seems more than it is, for the lower bone is forced down by superfluous fat.

In selecting a male bird, find one which has good size and color and holds his body erect. Pick a hearty eater if possible, the tendency of males being to allow the hens to eat everything and have nothing for themselves. He should be of good mating qualities, not quarrelsome, and yet possess a fighting spirit, and

Breeders do not require different housing from that of laying hens, They must at all times have fresh air and plenty of it. I believe that the correct type of house is the fresh-air considering the whole country, by keeping the fowls confined too much in warm, mild winter weather.

There must be a different method employed in feeding breeders than is Too much animal food causes the pro-A soft, red comb, lying to one side duction of more eggs than can be