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 enciosed with the question, when

the answer will be mailed direct.

cach fail with barnyard manure. the beans up to 145 deg. F. as you munity. The close and effective part- tributed as their bit in solos, piano Trees make a fair growth; ground have suggested. This kills the in- nership between the local Institutes and vocal, readings, and short spicy grows medium intercrep. How much sects that may be in the beans. An- and the Institutes Branch of the De- talks. A tender touch was the omiscommercial fertilizer should I apply other method is to put the beans into partment of Agriculture has resulted sion of dancing and the heavy orchesto each tree? Have some 2-10-2 on an air-tight barrel or box and put in in a very efficient bit of adminstra- tral music out of consideration for

rapidly as is consistent with well liquid, that is, it changes to gas provincial Departments. Is the baby and objects of the Institute, empharounded material, being careful not quickly. It is very disagreeable in sick? There is Dr. MacMurchy's sized the motto, "For Home and to force wood growth to such an ex- odor and is quite inflammable, so that Canadian Mother's Book to be had for Country," referred briefly to the retent 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 How much should it weigh? How stitute achievements, in the Great would, therefore, advise the use of beans. The treatment is best carried 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 the plans for a better and happier from 5 to 8 lbs. per tree of a fertil- out by pouring the bisulphide into tractive set of Child Diet bookiets community for the coming year, and lizer carrying 3 to 4 per cent. ammonia saucers or deeper receptacles which available from the Public Health De- improved homes. These plans includgrain crops, but could be used with placed, cover the barrel with several know "How to build the Canadian profit on orchard crops grown on a thicknesses of how or above the barrel with several know "How to build the Canadian several crops grown on a thicknesses of how or above the barrel with several know "How to build the Canadian several crops grown on a thicknesses of how or above the barrel with several know "How to build the Canadian several crops grown on a thicknesses of how or above the control of the c profit on orchard crops grown on a thicknesses of bag or closer woven house" or "How to make a Canadian saving machinery and methods, help-Sandy loam soil. You have not men- material, or put an air-tight top on home"? There is in preparation that ing the girls of to-day prepare to take tioned the type of soil and my re- the barrel. Since the fumes from the delightful Home Series, "The Little over the responsibilities of the future, commendations are made assuming carbon-bisulphide are heavier than Blue Books" which aga'n may be had beautifying the community cemeterthat the soil is an average loam. The air they sink down between the beans for the asking by any Institute from ies, getting wholesome recreation and use of nitrate alone, I am afraid, and kill the insects which have form- the Department of Health at Ottawa. would cause too rapid a wood growth, ed within the seeds. leaving the wood sappy and in such Some bean growers find it good is the Girls' Branch or Circle. shape that there would be a tendency practice just before seeding to empty for it to suffer severely during heavy 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 and field corn?

Answer: Your question is rather indefinite. You may mean one of Wheat and Flour Storage. what is the value Among the most interesting tests from sweet corn after! been picked as compar- carried on by Dr. C. E. Saunders, Docorn? If this is your minion Cerealist, described in his reas given by cent bulletin on Wheat, Flour and Henry & Morrison in their book on Bread, is that of the effects of storage on wheat and flour. These tests Feeding is as follows:

Analysis in Percentages.

ear of sweet corn as compared with retains its highest baking qualities because those that commence to de-

seeds spread out to dry immediately.

to grow. Can alfalfa and clover be kept three months after grinding in ditiously handled from the boxes than sprouting be delayed but the tubers ment stations and by others who much scratching.

Observed from

well sow the alfalfa and clover seed year each sample was grown, and 102 will keep, but the better plan is to deal will keep the potatoes be deal will keep the potatoes are never good layers.

Started. By a light harrowing of the will keep, but the better plan is to deal will keep, but the better plan is to deal will keep, but the better plan is to deal will keep, but the better plan is to deal will keep.

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Started By a light harrowing of the will keep the potat crop you could readily work the seed Golden Chaff showed 71 in 1907 and stored only when quite dry. have been obtained by seeding at showed better in intervening years storage is as perfect as possible. A such a time either on rye or fall after only one month from grinding.

The sting of a bee is only about onemust necessarily be a healthy fowl, a good method, but the inexperienced black of a good method black of a good 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 when seeding your rye apply only three kinds of wheat is tabulated why did you leave the farm, my lad? I'll roll aside my hazy bank, owing to the destruction of other why did you leave the farm, my lad? I'll roll aside my hazy bank, emalyzing 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 Why did you beat it off to town And tell you where the trouble lies potash. This material will give the strength takes place. All were ground And turn your poor old father down? Left my Dad, his farm, his plow, a good vigorous start and will September 16 or 17 in 1907. In Janu- Thinkers of platform, pulpit, press, Because my calf became his cow. wovide readily available plantfood ary, 1910 and 1911 the baking Are wallowing in deep distress; for the young clover and alfalfa as strength of Huron had reached its They seek to know the hidden cause seen as you seed it in the spring. pinnacle, namely 107; in 1912 it had Why farmer boys desert their pa's.

what becomes of the bugs after in 1921 it was 95. The best year for And some will say the silly chumps Doy come out of the beans? At what Yellow Cross was 1911, when the Mistake the suit cards for their The garden truck that I made grow stage are these eggs laid in the strength was 111. In January, 1921, trumps, sicked over and heated would the ing, Huron's strength was 86, Red Against the smoky thoroughfare. ed ones become bug-resisting? Is Fife's 98, and that of Yellow Cross We've all agreed the farm's the place here anything that can be done to 74. The decline of the baking strength To free your mind and state your case. Please tell the platform, pulpit, press p these bugs after they once get after the peak year had been reached

Answer: The bugs in your beans Fife and Yellow Cress than in that ere likely the Bean Weevil. This insect passes the winter as a fly, apsaring early in the spring after the The city is a place where people have flowered and the young must dwell; the country a place where ods have formed. It lays its eggs on people may live. the surface of the young pod. As on as these oggs hatch out they bore into the bean seed where the young larvae feed and grow rapidly. had to shave off his whiskers the The next step of development is gone other day because they kept blowing into his eyes when he drove into town in his \$5,000 hypersix, and he was feeding. The insect pupates in this constantly running over newspaper cell and emerges as a full grown wiseguys who had been poking fun adult late in July or early August, at him.

The rube farmer of ten years ago

# Among the Women's Institutes of Ontario

Getting Ready for the Conventions, known to themselves, to the rest of Institute Convention Committees of their last meeting. rural Ontario. Five annual conven- Several new families, some of them tions must be held this autumn to from outside our own country, had meet the growing needs of the moved into the neighborhood, one Branches. One will be at Fort Wil- family were leaving, another had been llam for the northwestern area, an- bereaved. It was the beginning of world-and the oldest. other at North Bay for the north, and another Institute year's activities The earth is my heritage when I play.

ods of improving the local branch, invited, also a neighboring branch. better place than I found it. the court of last resort in Institute The young people responded in a way With my million little brothers and work; also how the various Govern- that was a real inspiration. The two sisters I can do this, if the World Education, Child Welfare, and Agri- boys" dropped "over home" from Now I need Pure Milk and Fresh L. G.: I set 65 trees (apples, pears, There are various plans practiced culture may more effectively serve cities and towns and delighted the Air and Play. cherries) two years ago; mulched to combat the insect. One is to heat the home-maker and country com- home folk with the part they conhand, or would nitrate be better? | a dish of carbon bisulphide. About tive machinery whereby the busiest those who had been bereaved. Answer: As your trees are young 1 lb. of this chemical for every 100 women in the busiest neighborhood The outstanding feature of the the fertility treatment should be en- bushels of seed is the quantity to use. can avail herself of the best results evening was the President's address wrely planned to force growth as The bisulphide is a very volatile of the work of the college and other in which she outlined anew the aims

A Community Party. The successful Women's Institute tute, co-operation. believes vigorously in a balanced life After a merry time over the re-

say the members. Demonstrations had gone so fast." accordingly are in high favor. remarkable demonstration, all un-the party."

ter, securing the Chautauqua for the there is an increase in the amount Do the girls want a place? There five winter months, welcoming the tical ways the principle of the Insti-

The St. William's branch gave a because he "hadn't been invited to weaker ones of the herd.

Storing the Potato Crop. The lightness of the potato crop in the better condition in which the po- green corn, with a gradual elimination covered a number of years, as many Ontario and the eastern provinces tatoes keep. Experiments carried on of dry grains, there will be less Carbohydrates as thirteen as a matter of fact. He owing to the long continued drought at Ottawa would indicate that very chance of lowering the animal's remarks that there seems to be a earlier in the season will render it good results are obtained by providgeneral opinion current among millers and bakers that flour from new wheat sible Reports from agricultural renis of inferior quality for bread-makresentatives indicate that even the should be nailed a little distance apart ments show beyond a doubt that hogs But soon they rise to speak.
should be nailed a little distance apart ments show beyond a doubt that hogs But soon they rise to speak. ing, but that in the course of a very light crop being harvested is in many about four inches or more from the so fed are healthier and make more I think they say, "Come in and play! 9.0 9.2 26.4 41.3 1.8 ing, but that in the course of a very light crop being harvested is in many about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and make hotely about four inches or more from the so fed are healthier and healthie Field 9.0 6.5 7.8 27.2 47.3 2.2 or flour, a considerable change takes to put away in permanent storage po- air behind the pile. A temporary fed on corn alone. Second, what is the value of the place, and that it is believed that flour tatoes that are affected with disease floor should be put down about six that of flint and dent corn? Here is only for a few months. Dr. Saunders that of flint and dent corn? Here is only for a few months. Dr. Saunders of the pile. If potatoes are found to be diseased at digging time a good wheat, made from the 1905 crop, showed a baking strength of 86 in plan is to fix up a place in the barn tities are to be stored together ventilities are to be stored together ventilities are to be stored together ventilities. March, 1906, and of 104 in February, where it is dry and where frost can be kept out for a time, and spread the pile. This, with the pile could be put in here and there the pile. This, with the ven
1907, and of 101 in March, 1908; and spread titles are to be stored together vent ators of wood made of slats and runthe doesn't desire to slack or shirk—
the doesn't desire to slack or shirk—
the pile could be put in here and there the pile. This, with the venthrough the pile. This is the pile through the pile. The pile through the pile through the pile. The pile through through the pile through through the pile through through through Flint 10.5 1.5 10.1 2.0 70.9 5.0

Dent 12.2 1.5 10.4 1.5 69.4 5.0

Of course the protein, carbohydrates and fat are the feeding constituents of value. The differences
in these figures will give you the
answer to your question.

S. H.: I can't get clover or alfalfa
when ground and when baked indistate that wheat generally improved

SELECTING THE BREEDERS

Itllation afforded at the sides and
bottom will give very good conditions
of 104 in February, 1908. In order to
study more thoroughly this important, and it redrates make better receptacles
bottom will give very good conditions
of 104 in February, 1908. In order to
study more thoroughly this important,
study more thoroughly the test as last in the cellar. Boxes
of the dealing constudy 10.5 1.5 10.1 2.0 70.9 5.0 Downy Riga, grown in 1906, a evident, the storing can be done as tilation afforded at the sides and to start on my soil. The soil is rather last wheat generally improved in cellars where a furnace is operated, store house should be kept as nearly study. That trapnests are of the lose color in the shanks because they lose I should do to get clover and alfalfa a month after grinding in ditiously handled from the boxes than different the box 1913 it showed 101 of baging strength. if the whole pile has to be turned over will keep much firmer than if a make poultry raising a business. Answer: I would not advise sowRed Fife under the same conditions in order to take off the sprouts. The warmer temperature is allowed. To In trapnesting for the selection of and the general appearance of the

started. By a light harrowing of the 84 in 1907 and 95 in 1913. Dawson's highly important that potatoes be day.

In trapnesting for the selection of layer has a small head, rather round, on trashy ground. Sharp colters proshowed 88 in 1908 and 104 in 1913. oftener the sprouts are removed as breeding fall rye, but you could very Yellow Cross showed 74 in 1907, the they appear the better the potatoes seeding fall rye, but you could very Yellow Cross showed 74 in 1907, the well sow the alfalfa and clover seed year each sample was grown, and 102 will keep, but the better plan is to

Left my Dad; 'twas wrong, of course-

Because my colt became his horse;

Because my lamb became his sheep;

Because my pig became his pork;

I dropped my hoe and struck my fork

I left my Dad to sow and reap,

## wheat. In preparing your ground Red Fife, for instance, in 1910 showed sort of storage to provide. The ex- thirty-second of an inch in length.

Why Some Boys Leave the Farm T. B.: Please advise me what decreased to 87. Red Fife's best year Some say they long to get a taste causes beens to get bugs in them, was 1910, when the strength was 109; Of faster life and social waste,

ans? If the beans were carefully it was 100. In 1907, the year of grind- In wagering fresh and germless air

was more gradual in the case of Red Well, stranger, since you've been so Is driving off the farmer lads,

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 shots. 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-Delieve me, boys, it's the only way,

In the interest of Baby who too often knows what it is to be dandled These are busy weeks among the the province of a community party at; and kissed but is made to suffer in its "little healths," we publish the

I AM THE BABY

I am the youngest institution in the the lessons of Life. I want to live, laugh, love, work,

three others at Ottawa, Toronto, and after the harvest and the holidays. come into being, and when I go I I want to hear good music, read London for the three divisions of old Welcome, send-off and sympathy were leave it to the next generation of good books, see beautiful pictures. all expressed in the evening's doings. Babies. All are stressing the study of meth- Every member of every family was My mission is to leave the earth a

I am Yesterday, To-day and To- find-" ment departments, Public Health, orchestras played. "Old girls and does not impose too many handicaps. morrow. If you will make my way easy now, her crisply. I will help you when I grow up. I am your Hope-I Am the Baby.

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 given pure, cold water to drink. crowds. Has a bath every day. Has his meals served on time. Breathes fresh air, day and night. 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. Is kept up late.

Is bounced up and down.

Is tessed and made to show off. Is dosed with medicines. Is bothered by flies and mosquitoes. Is not a Fresh Air baby.

Usually at this season of the year

of disease in the swine herds. The from dry to green corn. Hogs ac- I have a little garden. customed to dry feeds all summer I planted lots of seeds are put upon green corn quickly with- And watered them and watched them and a balanced Institute program. freshments, the party broke up at out being allowed enough time for And pulled up the weeds. "Something to see, something to eleven o'clock, refreshed and benefit- their digestive systems to become ac- And now I have a pansy hear, and something to do, and you ted by a wholesome evening's recreative to the radical change in And a pumpkin and a bean will have an interesting meeting," tion and wondering "where the time feed. Then disease which had not And three tall hollyhocks been able to get a hold upon the hogs With leaves big and green And there was nobody to feel badly when healthy begin to affect the And best of all, a daisy

Prevention of such disease attacks I dug if up and brought it home, consists in avoiding too radical feed pense of providing a good system of changes. By allowing ten days or ventilation would be soon offset by two weeks time for the change to and bakers that flour from new wheat sible. Reports from agricultural repis of inferior quality for bread-mak-

Wanted-A Man to Lead.

"There isn't a lad but wants to grow Manly and true at heart, And every lad would like to know The secret we impart.

My Garden.

Is protected from flies and mo

Is allowed to go thirsty.

It taken to the movies.

Is fed at the family table.

Is not kept dry and clean.

I found out on the hill And it is smiling still!

The Frog Pond. I 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?

I cannot hear a peep. When I come out they raise a shout, "Kr-r-reke, kr-r-reke, kr-r-rekel" 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 farmers require much patience, as travelling a tedious, tiresome road.

not be permitted in the breeding pen be found to possess considerable Don't forget—the housewife is an transmitted to her offspring. A hen weight for her size. Examination

for the breeding pen. In selecting by observation, health and vigor must be the main factors. bones seems more than it is, for the freeze or become too damp. Set them The individual selected should be ac- lower bone is forced down by super- on a wire netting that is fastened on tive and carry her body in an erect fluous fat. and proud fashion. The comb should be bright red in color, soft and vel-vety; the eyes should be steady and holds his body erect. Pick a hearty around the vegetables prevents declear. A fowl that stands moping eater if possible, the tendency of around or roosts in the daytime is males being to allow the hens to eat Three farmerettes attired in over-

ering for a bird, some attention must be continually with the hens.

ties of raw material.

(in single-comb varieties), a short properly fartifized.

if the hen is an old one with much fat. The distance between the pelvic room or barn where they will not

form shape, with vigorous constitu- one. More eggs are lost than gained, live in a city," they declared. tions, are the ideal stock to breed considering the whole country, by keeping the fowls confined too much

A good layer can invariably be dis- in warm, mild winter weather. tions are province-wide and engage in tinguished by her actions and willing- "here must be a different method many activities for the betterment of that she has a full crop. This, too, is ing to produce eggs of quality rather are proving more popular each year. a good indication of health. A hen than many of low fertility. Mention Buyers from every section in the may be compared to a small factory should have been made before that province attend these sales for the are the finished product. The output treeders, but each must be handled or foundation females as the case may is greater when the factory runs effi- differently. Inc old hens should have be. These associations also make imciently and consumes larger quanti- no corn except in very cold weather. portations of pure bred stock and

UNANSWERED

"I've come," Mrs. Hilton said, " ask you to tell me the best books about prayer."

Dr. Mercer's answer was prompt "There's only one best book about prayer, and you've had that all your life, Mrs. Hilton." Mrs. Hilton's tired eyes filled with

tears. "But I've prayed and prayed and never got an answer. Surely I want to build Houses and Roads prayer is the most important thing in the world-real prayer-the kind that I want to walk in the woods, bathe gets answers. And I do want to learn. in the waters, and play in the snow. I've bought all the books I could

"Burn them," Dr. Mercer advised Mrs. Hilton stared at him. "Burn

them!" she cried. "Yest but understand me, Mrs. Hilton. There are some valuable books s- on prayer that have helped many people. But you might read them all the Is kept away from sick folks and rest of your life and never learn to pray. Prayer is a matter not of study Does not have to be shown off for but of practice."

"I don't know what you mean. Is NOT kissed on the mouth, even always pray, "Thy will be done." Mrs. Hilton's voice sounded hurt.

"I am going to ask you some questions, Mrs. Hilton," Dr. Mercer said. "I don't want you to tell me the answers. I want you to go home and think them over and see whether somewhere among them you do not find an answer to your puzzle. For you are right about the importance of prayer. When you pray for certain things do you pray in a spirit of love toward everyone so far as you know! The first words are 'Our Father.' Then do you care deeply about the coming of God's Kingdom upon earth? Are you working for it, giving for it, praying for it and trying to make it come everywhere that your influence reaches? Is your first concern not to fail God in any of the tasks and the opportunities that He has put before you? Are you pressing the great sorrow of the world to your heart until it hurts, and you have to go and tell God about it? Or have your prayers been only for yourself and one or two who are dear to you?"

"You make it sound so-hard," Mrs Hilton faltered.

"Hard at first perhaps while we are wrestling with the envy, the jealousy, the bitterness and the selfishness that come between our hearts and God's great love; but not half so hard as going year after year without the knowledge that the infinite Father is working through us And when that knowledge comeswhen we surrender the last thing between us and it, and his love come flooding in-then we shall not need any soul on earth to teach us how to pray, dear Mrs. Hilton."

### Bulb Growing.

In many parts of Holland, during the blooming season, the country appears like a huge flower garden. Us to the time of the late war, the choic est varieties of flowers grown from bulbs came from Holland. The flower some of the choice bulbs take as long as seven years to mature. Many other

In selecting a male bird, find one springs that clears the floor by two

either weak or sick, and should never everything and have nothing for alls, flannel shirts, high boots, etc., arbe selected, no matter what her record themselves. He should be of good rived at Moose Jaw recently. They are mating qualities, not quarrelsome, Miss Madge Simpson, Miss Doris Horn Although feathers are only a cov- and yet possess a fighting spirit, and and Miss Ann Guesk, graduates of the Angus Experimental Farm of British be paid to them also. Good feathered Breeders do not require different Columbia. "What do they do?" they Nor the taste for life that brought bottom Size and shape are also imbetter. Size and shape are also im- They must at all times have fresh air binding, breaking, plowing and riding portant in a dual-purpose hen; good, and plenty of it. I believe that the on any kind of a horse," was the ansheavy layers, of large size and uni- correct type of house is the fresh-air wer. "We love the work and wouldn't

> Saskatchewan's live stock associaness to scratch for food. If examined employed in feeding breeders than is the livestock of the province. Annual on the roost at night, it will be found used in feeding layers, the object be--food is the raw material and eggs either pullets or hens are good as purpose of securing purebred sires ies of raw material.
>
> Teo much animal food causes the pro- interest themselves in the boys' and A soft, red comb, lying to one side duction of more eggs than can be wirds' stock judging and feeding com-- | petitions.

OPER.

A Ship vice

The trepidat land.

fied sun most up strumen tion fro

secure most have be liant re

> vessel. a risky. In thi is impe as it is

mobile

wila