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Conducted by Professor 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

Address all questions to Professor Henry G. Bell, In care of The Wilson Publishing Company, Limited, Torento, and answers will appear in this column in the order in which they are received. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed ererslope be enclosed with the question, when the enswer will be mailed direct

Question-B.E.W .: I have a field fertilizer through the fertilizer attachof corn which is now clean and grow- ment of the grain drill seven to fouring very rapidly. I wish, however, to teen days before planting the beans. If grow a green crop to plow under next no grain drill is available any broadcast year; and have a farm that has been distributor will work, applying the run quite badly; but as you know, the fertilizer broadcast and working it in corn crop this year is very late, and by harrowing and disking. When its value, if matured, will be greater fertilizer is applied with a grain drill than usual. Will the sowing of a cov- at planting time it should be allowed The prevailing high prices of grain low in dry matter, owing to an uner crop now interfere with, or detract to run in the hole to each side of the feeds in the face of very moderate fortunate season. The silage was in any way from the present crop rip- one which drops the beans and not in prices paid for dairy products have re- found to contain 18.63 per cent. dry

peatedly that one should not cultivate past hot weather has injured the a corresponding reduction in the grain tion. beans after they bloom. They claim prospects for seed? it is an old saying but cannot give any

Answer:—As a rule the second crop the production of milk, butter-fat, gain

Comparing the average daily pro
Comparing the average daily pro
Comparing the average daily pro
ous giving. A great deal more than "impudent child." It is only when

Answer:—Growing beans should be crop are in blossom than there are for should carry as nearly as possible the in the case of two cows), the cows fed clergyman's fee. cultivated very carefully. Men who the same period of the first crop. The same amount of dry matter and nutrithe silage ration shrank 2.84 per cent.

Would-be Benefactress:—How does plants in Canada just now are not enbe followed by an occasional foaming handle large areas of beans say that seed should be cut when about two-ents. In one ration these nutrients in milk and gained 1.89 per cent. in the following idea appeal to you: A gaging any more workmen. On the over or unnatural physical and nervmost of the work should be put on the thirds of the pods are filled; otherwise were to be derived largely from rough- butter-fat production. The cows fed woman living in a small town originat- contrary they are dismissing their ous derangement. Therefore, the parseed-bed and just sufficient cultivation the earliest filled pods will shatter and age, mainly silage; in the other rather and employees, as the supply of ammuniting meaning mean should be given to keep down the some seed will be lost. From two to tion no silage was to be fed and as lit- in milk and 14.18 in butter-fat pro- ing matter among her neighbors of tion is abundant and the demand is "exhausts," but always with a gentle

face and sufficiently wide to extend strong growth and is well establish- carried practically the same amount of age-fed cows an average of fortyover half the distance between the ed, little injury will be done to the dry matter. In one over fifty per seven pounds per head; the grain-fed rows. This being the case, a deep alfalfa by allowing it to come to seed, cent. of this dry matter was derived cows an average of fifty-seven pounds. cultivation of beans, when the plant especially if after cutting the seed the from silage and less than eighteen per The facts reported seem to justify has made maximum growth, such as crop is top-dressed with manure or cent. from grain. In the other over the conclusion that silage can be made you will find at blossoming time, will fertilizer so as to give it strength to fifty-seven per cent. of the dry mat- to take the place of considerable grain cut off a large percent. of the small meet the coming winter conditions. ter was from grain, no silage being that is being fed to dairy cows in varroots between the rows. The roots The hot weather which has just past fed. are the conveyors of plantfood. Then should not have injured the seed pros- The silage used in the test was a feeds rich in protein-clover, alfalfa, if you cut off the roots, you are to a pects unless the ground is very sandy mixture of one ton of soy beans and soy beans, cowpeas, field peas, vetches From blossoming time to the filling of Question-H.J.:—I am trying al- age corn. There were nearly twice as hay, will be possible to further re- had to go to bed at eight o'clock every the pods of beans is a critical period falfa this year for the first time with- as many soy beans in the mixture as duce the amount of feed cost, and to night except Friday and Saturday. He for the bean crop. At such a time it out a nurse crop. I will give you a cowpeas. The silage corn was very increase the profits of the dairy herd. thought it was a hard thing to do, eshence any injury to its root system your advice as to the next move. should be carefully avoided. Another Plowed seven acres this spring, three reason for avoiding cultivation at acres bean ground last year, four blossoming time is that there is a acres two-year meadow; worked it untendency during damp weather to til about June 25th; sowed .ground

spread bean disease, by the bean limestone on it, using about ten tons spores being carried by the cultivator to the seven acres. Then I inoculator on the shoes or clothing of the ed alfalfa seed and put it on about one peck per acre and dragged it in at Question-R.F.D.:-I have this year once with a peg-tooth. The field is planted beans on heavy clover sod and heavy clay for the most part, with a Lesson XIII. Daniel In The Lions have a fine crop of beans. I have been few sandy places. The field is rolling told I could plant another crop of so it is pretty well drained. The seed fertilizer on this same soil. I would alfalfa stands six to eight inches high tinued at the court of Babylon from the days of Nebuchadnezzar to those on the days of Nebuchadnezzar to those of Nebuchadnezzar to those on the days of Nebuchadnezzar to those on the days of Nebuchadnezzar to those of Nebuchadnezzar beans next year without any added came fine, a good stand. To-day the should I be compelled to use commer- turning yellow or pale green. Also events narrated in the lesson text are 18-23. Contrary to all expectation, was all the same while Alan was a litcial fertilizer? When is the best time quite a few thistles and ragweeds have said to have taken place (Dan. 6. 1). Daniel was miraculously delivered. the boy; his bedtime when he went to

not follow beans. They should fol- looking the field over to go over with of Darius toward Daniel displeased liverance is due to divine interference be learned his lessons so easily be
for work. She said she could tell pudging from such condilow a cultivated crop like corn or mower and clip it quite high, then top- life (verses 1-5)

As a part of their The king rejoiced over the rescue of the life (verses 1-5)

As a part of their the conditions—correct first the condipotatoes. Of course, if your soil is in dress it quite heavy. What would you scheme, they induced Darius to sign a life (verses 1-5). As a part of their Daniel and then ordered the accusers he they induced Darius to sign a life (verses 1-5). Who sat up late and who went to bed early by the work they did in school. amount of fertilizer this year, and if Answer:—I believe you have handl- thing of any god or man, except the a decree exalting the God of Daniel, his thoughts about it to himself. the beans have been absolutely free of ed your new alfalfa field wisely. I king, for a period of thirty days and heaped new honors upon the latlast point is really the point of would give it a second top-dressing for vegetable storage, are particularly greatest importance, since bean dis- either late in the fall or early in the favored. eases live in the soil for one or two spring. My thought is that too heavy On your light sandy loam a top-dressing might smother out soil you certainly will have to provide some of the tender plants. If after plantfood for next year's crop if you cutting and manuring, the crop does expect a good crop. The problem is not make a good healthy growth, I just the same as is faced in feeding would advise you to top-dress still calves. If you expect the calf to do further with 200 lbs. per acre of fertiwell from one year to another, you lizer carrying 1 to 2 per cent. amhave to look out to supply an abund- monia, and 10 to 12 per cent. phosance of suitable food. Now ferti- phoric acid. This will tend to invigor- deg. Fahrenheit as you can; the ideal lizers are carriers of plantfood and al. ate the plant and give the crop though the plantfood which you add- strength to withstand winter condied this year may not all have been tions. used up, yet I am of the opinion that you will find it profitable to make an addition of plantfood on next year's Storing Potatoes. bean crop. On light sandy soils, es- In storing potatoes a cellar or half for each bushel of potatoes. pecially if they are low in organic cellar is best. The material used in the stand this sort of treatment with less their sustance from the six of their sustances from the six of the six

matter, it is profitable to top-dress building a storage house does not are building a storage house does not are building a storage house does not be building a storage house or semi-celloss. It it doubtless true that animals text colts from wind, rain, sleet, and their sustenance from the air. They at a very low cost. In compliance mented by the addition of acid phosphate or a complete fertilizer high in available phosphoric acid, at the rate of course if the storehouse is heated through are desirable.

Doors or windows at either end to secure a draught through are desirable.

Four yearling Percheron fillies with should not be subjected to extremely bad weather if they are expected to in each one of its heaviful blossoms.

Prietors possessing up to 100 hectares an average weight of 1169 pounds on the subjected to extremely bad weather if they are expected to in each one of its heaviful blossoms. of 200 to 400 pounds per acre, if you do not have to consider this. The largest wields of largest wields with a ration of six pounds and largest wields with a ration of six pounds with a ration of six pounds with a ration of largest wields with a ration of six pounds with a ration of largest yields of best quality are to ordinary house cellar is safe enough breathe. Dirt chokes their respira- of corn and oats (one-half of each by



Silage As A Grain Substitute

ening early? And how much vetch the hole dropping the seed. Some duced the dairy farmer's profits to a matter, 2.36 per cent. protein, 4.68 per Answer:—Regarding sowing a cov. Soll twice the growers go over the point where it is an open question with cent. crude fibre, 0.92 per cent of fat, Answer:—Regarding sowing a covered field twice, the first time drilling the fertilizer and the second time sowing the cow pay for the large grain ration with cent. crude first time drilling the for oatmeal muffins:

E.B.S.:—1. Here is a good recipe delivered to the giver of the books for the cow pay for the large grain ration with cent. crude first time drilling the for oatmeal muffins:

Take one-half the cow pay for the large grain ration with cent. crude first time drilling the for oatmeal muffins:

Take one-half the town poor among whom she children." But if you cannot answer You will gain in green material which into the soil and avoids the fertilizer found that if they are able to dispense corn silage on account of the admix- teaspoonful butter, one tablespoonful you can plow under to improve the and the beans coming in contact, the with half the grain he formerly fed tue of soy beans and cowpeas.

The seed should be scattered between the corn rows and then worked

The seed should be scattered between the corn rows and then worked

Question—J.B.A.:—As I have a field

Tests Show Advantages

To the doors of the recipients. Scarcepounds of dry matter; those fed the
grain ration produced 81.3 pounds of

Perspiration stains can be removed
ple of the magazine circuit fail to

in regard to the same. If you will position silage may be made to oc- silage ration and \$1.055 with the grain net curtain is to dip a square of net dwellers crave. The addition of 200 lbs. to the acre kindly answer the following questions cupy in the dairy cow's ration, and the ration. The cost of feed per pound cut to fit into cold starch, lay on the ration. The outcome of the plan has been age, is quite as great a breach of good of fertilizer analyzing approximate- I will appreciate it very much. (1) relative basis for feeding as compared of butter-fat was 13.1 cents with the wrong side of the curtain over the rent the establishment of a friendly circle breeding as impertinence to older peoly 2 per cent. ammonia and 10 to 12 Is the second crop the one to cut for with purchased grains. In one of silage ration and 22.1 cents with the and iron with a hot iron. 4. A letter that widens steadily. Good reading ple. This idea inculcated at an early per cent, available phosphoric acid seed? (2) About how many bushels these tests ten cows were used, regrain ration. The average net pro- of acknowledgement for a wedding is put into the hands of appreciative age is a rock foundation for courtesy would insure a good catch, and would per acre is an average yield? (3) presenting five different breeds, to defit per cow per month (over cost of gift which has been sent by a whole people; the people; the people themselves are and chivalry.

good reasons. Will you kindly advise of alfalfa will produce the largest in weight, cost of ration, and conduct of each cow for the entire test. When wedding gifts are on view the carding matter, in fact, is put into such outbursts are habitual that a anything to this and if so state why it reason that there are more bees at the The general plan of this experiment month previous to the change in ra- ed. 7. The best man usually takes more of the worlding ring and the more or less primitive. Their emotime that the flowers of the second was to compare two rations which tion (or the first month of their test charge of the wedding ring and the factories in the towns you mention, tions are constantly effervescing, and

cowpeas to two and a half tons of sil- and ensiloing them, or feeding them brother, Alan, was a little fellow, he

rative of the lesson text begins,

to use it, fall or spring? Should I come up along with it. Now the ground Under earlier kings Daniel had had Instruments of music-Word of uncer-school was eight o'clock. drill it in or spread it broadcast, and how much to the acre? This is a light not draw out manure and we have 200 God of Israel as also his usefulness to or concubines. The king was so trouthe kings; under Darius his faith was bled that he did not indulge in the lessons easily. Both his father and early. How did she know it? Besubjected to a new test. The situa- usual diversions. Lamentable—Bet- his mother told him that he was well cause he always came to school fresh

There are three things to keep in

INTERNATIONAL LESSON

SEPTEMBER 23.

Den-Daniel 6. Golden

Text-Psa. 34, 7.

The temperature must be kept as low as possible without freezing. The air must be as dry as possible

The place must be kept dark.

Keep the temperature as near range is between 30 and 36 Fahrenheit. show animal. Potatoes in large quantities will not freeze at 28 deg. Fahrenheit if exposed to this temperature for not more than an hour or two.

Verses 10-17. Daniel continues his try boy it would not have seemed so custom to pray to the God of Israel; hard; but he lived in the city, where he is discovered, and though the king dozens of other boys were his near chamber; that is, a room raised above the same school that Alan attended. the flat roof of an Oriental house, a and they were allowed to stay up and place of quietness and retirement. To- to play outdoors until nine o'clock ward Jerusalem-A standing custom every evening, and sometimes later. in later Judaism to pray with the face turned toward Jerusalem, or to the turned toward Jerusalem, or to the big head on his pillow, but with his the desk and tried not to notice or father or whoever the child may temple; which signified a turning to- his head on his pillow, but with his that the boys who were his neighbors have spoken to improperly. in the morning, at noon, and in the boys playing ball in front of their

Answer:—As a rule, beans should yard. I decided this afternoon upon tion was this: The friendly attitude ter, pained, or agonized. God decree forbidding any man to ask any. thrown to the lions. He also issued he did not say so. Instead, he kept She could pick them out and name

are taken into the show ring. Teach to play. them to walk and go through all the The children were not studying their had earned a holiday. paces to which they will be subjected lessons as if they cared at all who Alan walked a step at a time,—a by the judges. Grooming the coat, General Wolfe was, or where the step at a time, politely,—until he combing and decorating the mane and highest mountains are, or the longest reached the big outside door; then he if you would keep "tabs" upon that

short spells of severe weather which er, Lee, who was in the high school. Lee for the ride into the country! occur frequently during the fall, caus-To figure space allow 14 cubic feet hindrance to rapid and economical de- tion. Aged mares in foal lost only Oddest of all plants are the orchids. es a shrinkage in live weight and is a of last year, at an Experimental Sta-

Alan's Great Surprise. When Laura's and Mary Anna's big

pecially in the spring and early sum mer. Perhaps if he had been a counlions. Chamber-Better, roof- neighbors. The other boys went to

tail, add much to the appearance of a rivers or the largest cities, or how to flew down the steps and ran home at thought in the hope of subtly guiding

the land after plowing in the spring greatly matter. Either wood or stone lar build it in line with the wind genbecome accustomed to winter weather snow will prevent part of such loss in are mostly tropical plants. Their with a recent decree, the nursery will with 6 to 8 loads of well rotted manure masonry will serve. The material erally prevailing through the winter. but frequent changes from fine fall weight. Growing horses should not be forflies. Altogether there is a good to the acre. This should be supple- should be waterproof. Depth under In spring leave the door open at night, weather to bad storms retard gains in housed too closely and prevented from terflies. Altogether there is a good trees. The decree provides that pro-



given in each letter. Write on one side of paper only. Answers will be mailed direct if stamped and addressed envelope is enclosed. Address all correspondence for this department to Mrs. Helen Law. 233. Woodbine Ava., Toronto.

This entertaining story may be had she divided it up with an eye to suit- mind is that respect begets respect.

nearly cold add three drops of attar every lost or badly injured book or

condition of the solf A good mixture to sow is a bushel of rye to about
three pecks of vetch.

The cows fed the silage ration probeen sifted two teaspoonfuls baking
three pecks of vetch.

The cows fed the silage ration probeen sifted two teaspoonfuls baking
three pecks of vetch.

Stir well together and bake in hot
to the doors of the recipients. Scarcely a week comes that the country peocondition of the soil. A good mix- one with the other. While this method without materially reducing the milk is a since the farmers have begun to realize the child will almost invariably mirror in by a levelling cultivator or a nar- of alfalfa which I think would yield

Tests Snow Advantages

grain ration produced on pounds of butter-fat.

From a blouse by soaking in strong bring in a little farm produce—turnips row sectional harrow. It would be larger returns as seed I take the libbeen held in various sections of New The cost of feed per hundred pounds salt water before washing.

Several feeding experiments have been held in various sections of New The cost of feed per hundred pounds or butter-rat.

The cost of feed per hundred pounds or butter-rat.

The cost of feed per hundred pounds or butter-rat.

The cost of feed per hundred pounds or butter-rat.

Furthermore, boys and girls should be been held in various sections of New best and simplest way to mend a torn. best done, of course, by a single row erty of writing you for information York State to determine just what of milk produced was \$0.687 with the best and simplest way to mend a torn of the new green vegetables that city be taught that impertinence to other also assist the ripening of the corn.

Does it injure the future crops to cut termine what effect the feeding of feed) was \$5.864 with the silage ramother but should centain montion of brought into touch with others whose

There is scarcely a child who will Question—F.W.G.:—I am told reit for seed? (4) Do you think the more silage than is usually fed, with the grain ramother but should contain mention of material needs are greater than their not blunder into an occasional indisthe other members. 5. It is good own; and the poor become the benefi- creet, even heated speech, but because

roots spread out fairly near the sur- If the alfalfa crop has made a good concentrates. The two rations fed to have gained in live weight—the sil- acquaintances all the used books and occupation.

Daughter:—The author of "Martha magazines that she could find. After One thing parents, to be successful By The Day" is Julie M. Lippmann. sorting and arranging the collection in their "profession," must bear in

Stephanie:—A healing lip salve is the packages among the farm vehicles impudence or impertinence, for these made of one ounce cold cream, 15 that stood hitched every day in the are but disrespect expressed. Having drops of tincture of benzoin and 30 market place and wagon yards. It learned this, the mothers and fathers drops of glycerine. Rub the cold was not long before the farmers found of impudent children should ask themcream and glycerine together and then her out and came to tell her what the selves, "Do we show him the respec incorporate the benzoin with the mass. contents of the bundles meant to them. which we wish him to show us? Do Rub with a spatula or flexible knife They passed the reading matter, they we speak to him in the tone of voice on a flat tile or plate. A mixture call- said, from one family to another, so we speak to min in the tone of voice ed cream of roses is also good. Melt that each might have the benefit of it us? Do we treat him as courteously an ounce of white vaseline and half an all. They reported also an unwritten as we wish him to treat us and othounce of white wax and beat. When law of their own making-that for ers?"

weeds. If you will carefully dig up five bushels per acre is an average the roughage as seemed wise, the bulk duction. Upon the conclusion of the the outlying country districts. Her steadily decreasing. It would be betof the nutrients being derived from experiment each lot of cows was found first step was to collect among her ter to seek employment at some other even a sorrowful one, so that the child

The high school boys had a holiday must not be formed.

ment, if you please." Quickly all the children closed their Then there is the child, particularly

room are in bed before nine o'clock has been intentional, the small child every night except Friday nights and can be appealed to through its affec-

felt utterly miserable and wretched Spring, summer, fall and winter, it until the teacher said, "You may be seated, Alan."

prise. It was in June, a few weeks little girls turned red, and at least one before the long vacation, and just the boy looked foolish and ashamed. But kind of day when everyone wishes to the teacher did not mention any be outdoors, even the teachers. Birds names; she only said that she was were singing, and the air was sweet sorry that Alan was the only one who may not speak it thinks and all the with the smell of roses. A gentle dared to stand. Then she advised all may not speak, it thinks, and all the Colts show to best advantage if breeze wandered into the schoolroom, except Alan to open their books and more actively for its enforced dumbtaught to stand and lead before they as if to call the boys and girls outside study their lessons. But she told Alan ness. And if youth has the right to to go home and have a good time; he

the top of his speed, to get into the and directing it in the right channels The exposure of young horses to the Alan was thinking of his big broth- automobile on the front seat beside

PITY THE IMPUDENT CHILD

with the impudent child's parents. Why? Because the very fact that a child is impudent is almost conclusive evidence that the parents themselves are at fault in that their training of the child has permitted, perhaps even encouraged, the unfortunate trait to

at any of the large bookstores for ability and variety, made each stack Where there is mutual respect between into a neat package and distributed a child and its guardians there is no

will be impressed with the important fact that the habit of such outbursts

that afternoon, and Lee had planned The best time for talking over such to take the baby sisters, Laura and a fall from grace is after the storm, Mary Anna, in the automobile for a when all concerned are again in a ride into the country. Little brother poised and serene humor. This is es-Alan was thinking of that when the pecially true and desirable where the teacher said to all the children, "You culprit is a serious offender and has may lay aside your books for a mo- already had time to actually form the habit of impudence.

books and sat straight, glad to listen the very little person, who is apt to to what the teacher had to say; they say very saucy things quite innocentwere expecting a surprise. The next ly. This possibility must be taken inmoment Alan wished that he was any- to consideration before any punishwhere else except in that schoolroom, ment is meted out. Perhaps the exbecause this is the question that the planation to the child that its speech "How many boys and girls in this Very often, too, when the impertinence Saturday nights? All who are, please tions or emotions and can be dissuad-

it "resentment." Indeed, I am tempt ed to go a step further and call it "righteous resentment," for, between latter correction, I think you will find. will automatically occur when you

Also, older people in their arrogance of a few additional years are too inthink for itself (and it certainly has), it also has the right to speak for itself occasionally, and for pity's sake and

Tree Culture in Uruguay

The Uruguayan Government seeks largest yields of best quality are to ordinary house cellar is safe enough breathe. Dirt chokes their respiration. Cover the floor completely becourse, should be applied in the spring houses with a double cellar, the furfore you begin putting them on top of seed on land, and weeds and yellow able of nature's many curious imitatives. Successful house weight and in the following years 200,000 trees to rural municipalities, schools, police farms, and other institution