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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M. W .: How can I kill mustard in sure, however, that the wild oats are my clover and barley field? Can I cut green, before the seed is well

Answer: If the barley is not too S. W.: I have a field of hulless blue set forth. high and if the mustard has not come barley, sown early this spring and V. 17. The magicians of Babylon hand. The Babylonian palaces were into flower you can kill the mustard seeded to orchard grass and alsike have failed to explain the handwriting built of brick and the walls, to a cerby spraying with a mixture of iron clever. This field is entirely green and now Belshazzar offers Daniel an tain height, were plastered. Hence sulphate (copperas), 80 lbs. to 40 gals. with mustard, and to all appearances of water. This will kill the mustard the barley and the new seeding have the barley and the new seeding have are the barley and the new seeding have the barley and the new seeding have rejects the gifts and honor which the word means properly "stamped." In and turn the barley black for a few no chance at all to survive. I am king has proffered him. Yet I will Babylon the characters were stamped days, but it will recover. If the mus- interested in learning if there is any read. No reward was necessary to in them, while the clay was still soft. tard is far advanced to flowering, the kind of a spraying solution that will induce him to interpret what had V. 25. The exact meaning of the only thing you can do is to pull the destroy the mustard and not injure baffled the others. mustard by hand. the new seeding.

years and I never saw wild oats there mer. It is rather thin on the ground. of God. until last year. I do not know where Now, can I cut this and then get seed V. 19. Nebuchadnezzar is portrayed sin; denotes the Hebrew "half-minah."

Answer: I do not think that wild let it seed from the first growth? oats cut green and fed to horses will Answer: Sweet clover usually bears spread. Vital seeds that have gone best seed in the first crop. I would through the digestive tract of animals advise you to leave it for seed, proare unknown as far as I know. Be vided this is what you want.

Do It Regularly.

Hogs to Grade Select Must

The majority of Ontario farmers Be of Bacon Type. have not as yet adopted the policy of

red clover, alfalfa, alsike, sweet clover, soy-beans, field peas, and vetch.

Rye and buckwheat are two non
Rye and buckwhea Rye and buckwheat are two nonleguminous plants which are frequentleguminous plants which are frequentl leguminous plants which are frequentinces. Right breeding is at the root in the open plains; to dwell with the won, and the war is still on. In the There are three line. ly turned under and which usually give of the matter, and there is evidently wild asses would thus be a special conduct of one's personal life, in eatgood results, although they do not plenty of room for improvement in mark of wildness and savagery." They ing and drinking, and managing all of successful potato spraying. "A the net profit from spraying. Keep this direction. It is gratifying to fed him with grass. Apparently Nebuhuman appetites and desires, and also chain is as strong as its weakest link." vines covered throughout the growing the past five years, and he didn't "get much time for reading." While the benefits to be derived learn from the same authority that chadnezzar imagined himself an aniin public life in the enactment of laws Failure to comply with any one of the season with a protective coating of from this practice are difficult to measure, every farmer who has experimented with green manuring the body, etc. He dwelt in the common welfare, was noted during the past winter as this cannot fail to have a favorable effect in the quality of production in the pr knows full well that this treatment effect in the quality of production in neglect of his person see ch. 4: 33. shazzar's indulgence. prepares the soil for the production of the near future. In the absence of Till he knew, etc. Reason was restored To most of those who read this, the wait till the potato bugs are abundant meet the following requirements: more abundant crops. Perhaps the sows of the bacon type, a strong in- to Nebuchadnezzar when he acknowl- present practical application is most and have already injured the vines. 1. It should mix easily with water the dear future. In the absence of the bacon type, a strong in- to Nebuchadnezzar when he acknowl- present practical application is most and have already injured the vines. greatest benefit comes from the ad- fusion of that type through the use edged the true God from whom he assuredly personal abstinence from Young bugs are killed more easily —to save time. dition of humus to the soil. This not of suitable boars would greatly im- derived his kingdom.

evaporation. Crops on land with ern Ontario. plenty of humus are much better insured against the dangers of weather

Comparatively little has been done This year hay is abundant and labor sires brought into the community gives a study of the labor sires are study of the labor sires and study of the labor sires are study of the labo scarce, which may make it practicable ing the pames of buyers and sallers ing the pames of buyers and sallers ing the pames of buyers and sallers.

This year hay is abundant and labor sires brought into the community, givers and sallers ing the pames of buyers and sallers ing the pames of buyers and sallers.

The pames of buyers and sallers ing the pames of buyers and sallers ing the pames of buyers and sallers ing the pames of buyers and sallers.

The pames of buyers and sallers ing the pames of buyers and sallers in between the best results a spraying work, but he does not expect that the

extremes through this addition.

The Annual Picnic.

the annual church picnic. For a long bought or exchanged within the coundary was a standard than the coundary was a standard to the coundary was term of years we have attended these ty. A scale of points is allotted to sult of the tests made in 1921. Numdeleterious effect upon the fertilizing Leaf-hoppers which cause hopperburn, sulting hopperburn, as it is get it, and go after it.—Bruce Barton. affairs and many times we have come each type of animal, the more expenerous cross-bred sorts which have not value of the manure. Borax is another flea-beetles, blight sores and aphis atsometimes called. The fungicide in home completely tired out. But when sive sires being allowed a larger credit yet been named and are in a prelimin- material that can be used to advantage of the leaves. If the material also helps control fleating the control fleating that the control fleating the control fleating the control fleating the control fleating that can be used to advantage the control fleating the control f the next season comes around we seem than the less expensive ones. The ary state, are omitted. Of these tage. Too much, however, will affect you want to get the greatest cash re-

be no question but that the community is much better off because the folks get acquainted with each other on the less serious side of their Home's not what it used to be. natures. Gosherino! Nosiree.

Then, too, spending the day trying Every day an' night an' mornin' to help the boys out with the base- Mother, Brother, Uncle Harmin ball game or the girls with their races All the hull dern familee certainly brings old Father Time to a Listens to the jamboree. halt for a moment and helps us to smooth down to some degree at least Since we got the Ray-de-o a few of the wrinkles that are gather. Mother lets the cookin' go. ing on our brow.

Gee! Can't blame her, GHY's The real purpose of the day is to Shootin' music through the skies, give the boys and girls a good time. With the head band on her ears As I look back over life the days that Sister sits and turns the gears. I had off for trips to the lake with my friends stand out in bold relief against Paw has fixed a riggin' so's the long days of hard work. Remem- He can listen doin' cho's. bering this we feel it a privilege to be Milks the cow by Ray-de-o instrumental in putting into the lives When he doesn't let it go. of the boys and girls of our day and Farm life surely ain't the same community as many of these bright Since we got this patent game. spots as we can,-W. F. B.

--a han for one year are worth about \$2. ter of 52,000 animals.

as select for bacon purposes. In On- ch. 4: 28-33. The greatest benefit comes to the tario and Prince Edward Island the nezzar became insane and his insanity

the soil and decreases the rapidity of exist to a considerable extent in West-

A Unique Contest.

Since We Got the Ray-de-o.

sacrilege against Jehovah.

Testing Varieties of Grains.

1922. Any community wishing to can only be obtained by a study of the the fly in manure piles is one of the the greater the covering power. Low 6. And above all, it should give real world for the order; the other uses the ing the names of buyers and sellers stations, and the eighty illustration be cautious inasmuch as a too liberal pressure means a fine mist which thormaterial should combine a good fungi- order will come—and usually it does and the registry number of each anistation, of which the Farm at Ot- use of some of the chemicals will de- oughly covers every square inch of cide with a strong poison. The poison not come, the clover acreage is turned under of all participants in the various com- of these reports that has recently manure. mal. The county agent get the names tawa is the controlling centre. One stroy the fertilizing value of the leaf surface. The greater the pres- alone does only half the job—it only Charles M. Schwab once remarked made its appearance is that of the A study by the department of agri- 2. Use Three Nozzles to the Row.— The fungicide is often far more im- with none but "lucky men"—meaning Credits are given for every pureDominion Cerealist, for 1921. In that culture shows that the use of one-half One should spray downward on top of portant because that part of the mamen who had formed the habit of bred sire of any age brought into the year, Dr. Saunders states, there were pound of powdered hellebore to ten the vines and one from each side incommunity during the contest and for 756 plots of all sizes at Ottawa, rep- gallons of water will prevent the de- ward and upward. This is important. potato blight and the accompanying would succeed. The women folks are preparing for every pure-bred sire of breeding age resenting 600 fixed varieties of grains. Velopment of fly larvae in eight bush
One nozzle spraying downward will tuber rot. It controls such insects as

Men who understand that you get just as eager to go as we did on the standing of each community in the tests, 112 were of varieties of spring plant. The department recommends turns from the time and money put right kind, the fungicide frequently into spraying protect the lower side into spraying protect side into spraying protect the lower side into spraying protect side into spraying protect side in the spraying side in the spraying spraying protect side in the spraying spraying spraying side into spraying spraying spraying side in the spraying spraying preceding years. We think parents county is published each month, and wheat; seven of emmer and speit; 27 the use of 0.62 pounds for the treating in the final standing is determined by the final standing by the final standing is determined by the final standing by the final s generally should look favorably upon the final standing is determined by of oats; 103 of barley; five of spring ment of eight bushels of manure. as well as the upper side of the leaves. Three pozzles to the pota- old cry, "Tell me a story," but not all comparing the total number of points rye; 29 of field peas; 14 of field beans; Other precautions are clean premises, Three nozzles to the row correctly toes to the acre. This increase is due parents can answer it satisfactorily While we have not had in mind so accumulated by each community with 137 of flax, and 18 of barley for hay. Screened manure pits, outdoor fly traps arranged will give twice the yield entirely to the stimulating action of One mother began when her children much our own pleasure as we prepared the number of persons listed therein. In addition, 629 varieties of grain and closed garbage cans. and hustled to get out with the crowd, A breeders' cup is offered for the com- were under test for the Dominion we have always felt that this free munity installing the greatest per- Cereakst at the different farms and mingling with neighbors and friends centage of pure-bred sires during the stations located in all parts of the country. Experiments for the control Give me clean hands, clean words Small hand or knapsack sprayers are vegetable and fruit crops with a poison out of periodicals, and she began at

All's Right With the World.

The year's at the spring, And day's at the morn; Morring's at seven; The hill-side's dew-pearled; The lark's on the wing: The snail's on the thorn; God's in His Heaven-All's right with the world!

-Robert Browning.

Safety First. if it was loaded. It was.

The Sunday School Lesson

JULY 16

The Handwriting on the Wall, Daniel 5: 17-28. Golden Text-God shall bring every work into judgment, with every hidden thing, whether it be good or whether it be evil.-Eccl. 12: 14. (Rev. Ver.).

writing, 24-28.

Although knowing the sense of each

word in itself the king could attach

no meaning to the words as they stood

V. 26. Mene has in its root the idea!

of numbering. Hence Daniel says that

in this connection.

Lesson Foreword-Remember that which were dedicated to the service of the Book of Daniel was written to Jerusalem's temple, and used them as minister comfort and encouragement wine cups at a drunken carcusal. (2) to men who, through persecution, were In spite of Nebuchadnezzar's awful liable to fall away from their religious fate for failing to recognize the God faith. In to-day's lesson, encourage- of the Jews as the only true God, Belment is given by showing that who- shazzar continued to worship other ever profanes the religion of the Jews, gods. Daniel reminded him that these is doomed to punishment. Belshazzar, other gods were "mere nothings." in his profanity and punishment, is II. The Interpretation of the Handan instance of this.

I. The Cause of the Handwriting, 17-23. V. 24. Part of the hand; literally, In this section the reason for the "the palm of the hand." There would appearance of the mysterious hand is be something gruesome and mysterious in the visibility of part of the

words written is difficult to determine.

V. 18. The most high; a title fre- This was the reason, of course, why Answer: See answer to M. W. above. quently applied to God in the Old Belshazzar was puzzled at them and M. B.: Will you please tell me if wild oats that came up in alfalfa, if cut and fed to stock, will come up fallow.

Answer: See answer to M. W. above. quently applied to God in the Old Bernazzar was puzzled at them and wild oats that came up in alfalfa, if flower, but plow it under and summer over all the earth and thus clothes them. The words, which are Aramic Him with awe and reverence. God and not Hebrew, appear to be the where the manure is spread? This field has been seeded to alfalfa for five years and I never saw wild oats there mer. It is rather thin on the ground of Col. ponds to the Hebrew "shekel." Uphar-

from the second growth or should I as a typical Oriental despot whose sway over his subjects was absolute. Whom he would he slew, etc. "His personal will was law in all things" (Driver). In a capricious mood he would have one subject executed and another elevated to honor.

the days of the Babylonian kingdom V. 20. His heart was lifted up. See are numbered. Its allotted time is Deut. 8: 12-17 and 17: 20. He had. become so elevated above his subjects "weighing." So Daniel declares that in his pride, that he dealt arrogantly when weighed, Belshazzar falls short plowing down green crops. Green states that Canada to-day has more hardened, etc. In this respect he was manuring will in time become a regu- nondescript hogs than she had ten like Pharach, Exod. 7: 13, 22. He atof the standard. enly aid in increasing the available every province. In substantiation of result he became insusceptible to diplant food in the soil, but they also this statement he gives an estimate of vine influences. He was deposed. The improve the physical condition of the the hogs that would probably grade account of his deposition is given in

kand from green manuring where leg- figures are from 35 to 40 per cent.; unfitted him for human intercourse.

V. 23. Belshazzar's sin was twofold: and weak will, and helpless depend- will more than pay for itself. (1) he had taken the holy vessels ents injured by these.

Fighting the Fly.

A Boy's Prayer.

Send me chances to do a little good every day and so grow more like Christ.-Hyde.

Fight Weeds Now.

the farmer should work hard to keep tion is highly recommended. down weeds. They are more easily Dissolve one cake of laundry soap A rainbow in the sky: killed now than later and the crops in four gallons of soft water, and, So was it when my life began; A man looked into a shotgun to see will have a better opportunity to keep while boiling hot, add one gallon of So is it now I am a man; the weeds subdued. Just before har- crude oil slowly, and stir vigorously So be it when I shall grow old, A man struck a match to find the vest time is on in full blast the farmer for ten minutes. To this add four Or let me die! At present prices the droppings of disease in Britain entailed the slaugh- to see if he could get over the track the weeds have time to develop size keep away from the fire.



Some Potato Spraying Essentials

Factors in Spray Application That Are Often Overlooked

BY M. D. LEONARD.

V. 28. Peres. There is a double play Potato spraying can be made profit- | be sprayed at a time, using three nozlar practice in the rotation program on years ago, and that the general lack tributed his success to himself and also it suggests "Presians." Hence also it suggests "Presians." Hence hundred bushels per acre increase may eral use. All makes are not satis-

sians. In B.C. 539, Babylon fell before even in the absence of blight twenty- has a large pressure chamber mand a Cyrus, the Persian, in whose empire five to forty per cent. increase in yield pressure gauge. Don't waste money on ing a working knowledge of the law umes or nitrogen gatherers are plowed in Manitoba, from 30 to 35 per cent.; His heart . . like the beasts. His mind The noble self-restraint of Daniel, results are almost sure unless certain will only deliver twenty-five gallons There is a right way and a wrong 4. Use Enough.-Don't skimp on down. There are a number of legumes in Quebec, from 20 to 25 per cent.; in and disposition were reduced to the his purpose to "scorn delights, and conditions are strictly observed, and per acre is not worth having. All that can be so used. The list of Saskatchewan, from 15 to 20 per cent., in and disposition were reduced to the mis purpose to some level of the beasts,—irrational and live laborious days," the much derided the success obtained will have a direct parts of the vine cannot be thoroughly familiar plants in this class includes and in Alberta from 10 to 15 per cent. Savage. Apparently Nebuchadnezzar Puritan element in life, is in eternal relation to your faithfulness in fol-covered with less than fifty gallons

only aids in making plant food more available to the crop, but it also insmooth type of hogs, which predominate by his father's fate; despising all these tal prohibition, in the interest of public or eight are usually better. Vear in mechanical condition.

The Right Way.

potatoes-don't sprinkle them. Seven- a fine film of spray-coarse materials of every year with a definite plan and in this country with this type of soil building. The practice, however, is an old one and in time will be common old one and in time will be common of pure-bred sires. The contest con
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old one and in time will be common of pure-bred sires. The contest con
old of pure-bred sires. The fly nuisance. On farms, the ma
old of pure-bred sires are probably the chief of pure-bred sires. The fly nuisance of the fly nu

from spraying, other things being the copper on the foliage.

Your Stock Will Appreciate This.

flesh of your farm animals, due to two. flies during the hot months, can be eliminated by the liberal use of a This is the season of the year when good fly repellent. The following solu-

The stamping out of foot-and-mouth A man speeded up his motor car which this work can be done before fifteen minutes, care being taken to And I could wish my days to be sufficient to resist ordinary treatment. This solution is best

Daniel predicts that Belshazzar's king-dom is to be divided among the Per-even in the absence of blight twentya low pressure machine—it won't pay.

Use the Right Material.

zles are necessary to get good dis- the story, and the world is pretty

of smut were carried on last year, and clean thoughts. Help me to stand satisfactory on small plantings up to alone. The fungicide is much more once to add to the number. Then she and 10,061 distributions of free seed for the hard right against the easy about one acre. They should always important and both materials can be grouped the pictures according to subsamples were made, consisting of wrong. Save me from habits that be provided with a short extension rod applied with the same expenditure of ject, and placed each group in an en-3,230 samples of oats, 2,906 of wheat, harm. Teach me to work as hard and angle nozzle so as to spray the time and labor. Two jobs can be done velope. Whenever she told a story

spraying, but can be put on with a as material for a short ptory. At other moistened cloth. Care should be times a group of related pictures

The Rainbow.

My heart leaps up when I behold

Bound each to each by natural piety. for themselves the stories that the -Wordsworth. pictures suggested to them.

IF YOU WANT IT-GO AND GET IT

Generally spreaking, we do not succeed beyond our expectations. Going through the motions of faithful work is only one of the requisites. The other, and equally important requisite is to make up our minds just what we want Life to give us and then to lav down the order blank before Fate and say: "Here is the dotted line; sign

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the neck, V chorter that white collar

The sales manager of a big company took a trip to discover why one of his salesmen was getting so little business, and together they called on a dealer to sell him some motor-cycle tires. The salesman made a splended presentation of the goods. The sales manager was surprised; he had supposed, from the small volume of orders the man secured, that his knowledge of the line must be deficient. But the man had every argument at his tongue's end, and used them all.

After fifteen or twenty minutes the dealer was called away to wait on a customer, and the salesman, turning to the sales manager said; "I have told that fellow everything I know: what would you say now?"

"Don't you think," said the sales manager, "that it would be a goot idea to ask him for an order?"

After a few minutes the dealer returned, and in the course of the versation that followed he remarked that he was just waiting for the sales man to finish with his talk in order to give him the business.

That story came back to me recent ly when I had two conversations with two men of contrasting types. One of them is a junior executive in a large corporation. He graduated from school ten years

ago and, discovering that his edution had not given him a complet equipment for business, took two delars a week out of his first salary of ten dollars and spent it for a night course in a business college. A little later he found his work

bringing him into contact with the legal department of the business, and "Every year I pick out some one subject and devote my study to it. he said to me. "I hate the thought of

coming to the end of December and finding myself no bigger than I was on the first of January." The second man, also a junior executive of a business, is very discon-

tented. He is reaching around for come opening into work that will have "more future."

I asked him what sort of work he thought he would like, and what he had done to develop his knowledge an Start early and spray often. Don't A good spraying material should his acquaintanceship among men wh

tection of people with strong appetite and year out every additional spray 3. It should be so fine that it will These two men correspond to the not clog the fine nozzles, and fine noz- sales manager and the salesman in

much divided between the two types. 1. Use High Pressure-Spray your 4. It should cover the foliage with One type of man tackles the work Here is a contest put on in a western

An idea of the extent and importThere are many ways of combating ty-five pounds pressure is not enough. do not protect against the fungus dis- a fine expectation that his work will

equal, to be obtained from only one There are reasons why most agri- them to tell interesting stories. were very young to teach herself and

ers often give very good results on Mix nicotine sulphate in some form Every day when the story hour came Forgive me when I am unkind and plantings up to about four or five with your spraying material where round the youngsters found some of help me to be kind to those who are acres. Not more than two rows should aphis (plant lice) are troublesome. | the pictures pinned to a screen. Sometimes the mother used only one picture The great annoyance and loss in to rub the skin. Renew every day or difficult tale. For example, in one group the first picture showed a grove of sugar maples, the second showed men tapping the trees, the third showed others boiling down the sap and the fourth and last picture was that of two children sharing a piece of maple sugar. Almost any child would be eager to hear a story so suggested. As the children grew older their mother encouraged them to add to the collection pictures in which they saw story-telling possibilities, and to tell

ONTARIO ARCHIVES TORONTO