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The object of this department is to place at the serfarm readers the advice of an acknowledged all subjects pertaining to soils and crops. all questions to Professor Henry G. Bell, in he Wilson Publishing Company, Limited, Toroners will appear in this column in the order y are received. When writing kindly mener. As space is limited it is advisable where te reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.



Grimm alfalfa seeded two years ago hoe. Get a pound or two of sulphate the housing, clothing and feeding of most practical benefit to the people. this coming spring on a light clay of iron or copperas. Dissolve this in the family, the introduction of pracloam, which I manured the winter a large pail of water and sprinkle the tices making toward health and preceding sowing of seed. As I would solution on the plant. This should strength of body and mind, ability to like to take a first cutting of hay and kill them out in a very short time. a crop of seed off this ground this R. G. H.:—I have been getting poora crop of seed on this ground this coming season, can you advise me on er crops from my farm year after best interests of the community a good analysis of fertilizer which I year. I have used manure, and a best interests of the community. could profitably apply to this crop year or so ago I tried acid phosphate, early this spring (say when I could but I did not get the results expected, early this spring (say when I could but I did not get the results expected, apply it with a fertilizer drill, as I and have come to the conclusion that that the reduce of the results of something else must be lacking in my have one of these implements)?

As soon as the soil is dry enough in from a number of concerns in Ontario. lasting worth. the spring to go over with a team, One is at Dundas, another at Beachthe ground is very closely packed, set Exp. Station found that lime increas- the rural districts.

most prefitable to feed dairy cows in will manure or fertilizer take the the Government and voluntary organ- lunch. most profitable to feed dairy cows in will manure or lertifizer take the winter, swede turnips or sugar place of lime. Both plantfoods and izations. The women of Ontario have month of molive that they have a power the work are the estabwinter, swede turnips or sugar place of fine. Both plantfoods and come to realize that they have a power the work of medical school inspection lishing of memorial parks and athletic that they have a power the work of medical school inspection lishing of memorial parks and athletic yield in tons per acre? Can you re- of farming. commend some good keepers?

plants growing in my garden. I have apply time just before the show goes tried to get rid of them by digging off. The early working of the soil ments and advantages which have ent school nurse. They are also in do their shopping. The Institutes also tried to get rid of them by digging on. The early working of the son do their shopping. The Institutes also them out but the more I dig the brings the lime into quick action. Do been wanting in most rural districts. many places giving generous dona- bring valuable entertainment and them out but the more I dig the brings the sine into quick action. Do the thicker they get. Can you tell me of not apply lime and fertilizer at the anything I can put on them to stop same time. their growth?

following is the analysis given by a representative chemist:

Sugar beet: water, 83.6; protein, 1.6; carbohydrates, 13.6; fat 0.1.

1.2; cambohydrates, 8.7; fat, 0.3. The figures speak for themselves. In practice, however, it is not looked upon as a good procedure to feed turn'ps to dairy cattle on account of tainting their milk.

of six years from the best yielding and lastly before Pilate again. In his agony, had been impressed by the persugar beet he got 29.91 tons per acre; trial before both civil and religious sonality of Jesus—his patience and his tion class, and the school had no funds such as in one case, the draining of a from the best turnip he got 21.01 tons per acre. Of sugar beets he mentions among the leaders, Giant White Feedamong the leaders, Giant White Feed- The priests were blinded by nate. Dur- justing for their offences, Jesus had they responded with a few hundred gation of a neighboring church. proved. Among the turnips he men- and unafraid. He never seemed so ment. Remember me when thou com. dollars to make up the additional tions Garton's Superlative, Steel different from other men as during est into thy kingdom. He has a real teacher's salary.

soon as they show in the spring to need.

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List of Publications, 1923.

For Home and Country

The Silver Anniversary a Gra tifying Year in the Women's Institutes. BY G. A. PUTNAM, SUPERINTENDENT.

The strength of the Women's In- | The fact that the number of Branches stitutes, which were first established has increased from 930 to nearly

W. E. H.:—I have three acres of cut them off with a sharp spade or much knowledge of practical value in ing and carrying through work of the

A. E. S.:—Which do you think is place of fertilizer or manure, neither the Covernment and voluntary organfor service of real worth in commun- whenever they can be of service to grounds, tennis courts for the young Lime can be applied any time in ity and nation buildings, and are in-I have about a dozen horseradish the year, in fact it is good practice to telligently co-operating with men in several counties the Institutes are rooms in country towns, for the use of have about a dozen horseradish the year, in fact it is good practice to bringing about many needed improve- assisting in the support of a perman- women coming in from the country to

Answer:—With reference to swede turnips and sugar beets for cows the The Sunday School Lesson Lesson ed personally in judging the house-turnips and sugar beets for cows the turnips and sugar beets for cows the turnips and sugar beets for cows the boundary School Lesson Lesson ed personally in judging the house-turnips and sugar beets for cows the turnips and sugar beets for cows the boundary School Lesson Lesson ed personally in judging the house-turnips and sugar beets for cows the turnips and sugar beets for cows the boundary School Lesson Lesson ed personally in judging the house-turnips and sugar beets for cows the boundary School Lesson Lesson Lesson ed personally in judging the house-turnips and sugar beets for cows the boundary School Lesson Lesson

MARCH 18.

Swede turnips: water, 89.1; protein, Jesus Crucified, Luke 23. Golden Text—He was wounded for our transgressions, he was bruised for our iniquities; taught in their schools, and a number the plan of instalment payments arthe chastisement of our peace was upon him; and with have been responsible for having conhis stripes we are healed.—Isa. 53: 5.

that experience when men heaped faith in Jesus that he is more than Obviously one of the important fea-Brigg's Durham Sweded, Darsh and their indignities upon him. The man. He is a king, and the thief asks tures of these varied projects for Relative to the killing of the horse- agony in the garden of Gethsemane in paradise. Jesus shows his full radish plant I would advise you as did not fail him in the hour of utter understanding of the man's words. His I. The Long Agony, 33-43. Vs. 33, 34. When they were come . . spoken when Jesus commends his Calvary. Jesus had come from the mother to the care of John, his judgment hall, bearing his cross, amid disciple. the lamentations of the women. Then the cross was laid on Simon of Cyrene. The word Calvary means skull. The Vs. 44-45. It was about the sixth quired by the Act. One Institute in place was probably a low mound, hour; at noon. Being the time of the

he would not save himself.

Lesson Setting—After the arrest of have written, I have written." One of cord where a number of children in a by the Institutes are the inauguration Relative to yields in tests reported Jesus, he was taken before the chief the malefactors. railed .. the. other rebuked him. The other malefactors are the inauguration of a "clean-up week," a county cam-Relative to yields in tests reported Jesus, ne was taken before the chief the .majeractors. Then by Dr. Zavitz, O.A.C., as an average by a proposed before Pilate and Herod tor. he appeared before Pilate and Herod tor, even in the extremity of his portunity for further education unless peal to the council to have certain faith and worship is to be rewarded. sense of responsibility in the school. This is the second word from the cross. The third word (John 19: 25-27), is

II. The Finished Work, 44-46. Any of the following may be had free shaped somewhat like a skull. It lay full moon, the darkness could not be we learn that before the actual cruci- saints which slept arose and appeared what he did in life. fixion he was offered "drugged wine" to many. Jesus . . cried with a loud to deaden the pain. Jesus refused it, voice. This introduces the seventh and

twenty-five years ago, lies in the fact 1,000 during the year, with a corresthat localities desiring service in the ponding increase in membership, and way of lectures, literature, and de- that at the conventions held at Fort monstrations, are advised to form Frances, North Bay, Ottawa, London organizations and are required to hold and Toronto, the attendance was conmeetings, utilizing local talent. While siderably larger than in previous the service rendered by the Insti- years, is evidence of the development tutes Branch has been of real value of the organization. A matter of perand much appreciated, the activities haps greater importance is the way in of the women and girls in the local which the individual Institutes, in organizations has resulted in gaining their own communities are undertak-

Welfare.

The Institutes are working more grapple with social, educational and and more actively than ever to imno other "school and home organiza-It has been demonstrated in the tion." A number of Branches have work of the Women's Institutes of installed sanitary drinking fountains, Answer:—Alfalfa is a great lover soil. Clover doesn't thrive at all and is dependent to a very large extent homes is a real problem, paid fifty of lime, therefore if you have not my cattle are not making the gains upon the degree to which the people dollars to have a well dug at the limed your soil recently I would advise that I think they should make. One directly concerned can be induced to school and are proud of having struck you to apply this lime at any time, of my neighbors says my soil needs For the Covernment of the flowing water. Others have had the even before the snow has entirely gone a liberal application of limestone. For the Government or any organizaoff. Take your fertilizer drill, leaving Please let me know what your opinion tion outside of the community to plied washbasins and paper towels, off. Take your fertilizer drill, leaving I lease let me know what your opinion and in general improved the sanitary Northern Ontario was successful in people without requiring activity and condition of the school and curround. people without requiring activity and condition of the school and surround- renovating an old cheese factory to

and the frost goes out the lime will time. You should apply at least from development of the people concerned, and lighting systems have been put at Spry, in the Bruce Peninsula, twen- an inexpensive mixture of one part to loan, and those are government at Spry, in the Bruce Peninsula, twen- and does not result in a service of into several schools through the influ one to two tons of ground himestone and does not result in a service of into several schools through the influper acre. This may be purchased and does not result in a service of into several schools through the influty miles from a railway, has secured indefered and five parts vaseline bonds and first mortgages on good ence of the Institutes, and sometimes a ninety-nine year lease of the Orange pressed into the openings made by the real estate. Any scheme advertised We have in the Institutes of On- through their financial assistance, Hall, and rebuilt it to make it a comtario a form of organization and me- while it is a common feature of Insti- fortable gathering place. Where the apply about 250 pounds per acre of the lime corrects the acidity of the ful factor in making towards effia fertilizer analyzing 2 to 3 per cent. The time corrects the actual of the name corrects the actual building of the hall, they have, mitrogen, 10 to 12 per cent. phosphoric soil and helps the physical condition of the hall, they have, mitrogen, 10 to 12 per cent. phosphoric soil and helps the physical condition, actual building of the hall, they have, acid and 2 to 4 per cent. potash. If or make-up. In actual tests the Ohio ciency, prosperity and contentment in historical in a great many communities, ionated the rural districts. pictures or prints of classic paintings, such accessories as a piano or kitchen the ground is very closely packed, set Exp. Station found that lime increasthe discs of the fertilizer drill to cut ed the yields of wheat approximately
the discs of the fertilizer drill to cut ed the yields of wheat approximately
developed into a "Department of gramophones, planes, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately gramophones, and hat head approximately developed into a "Department of gramophones, and hat head approximately gramophones g the discs of the fertilizer drill to cut ed the yields of wheat approximately out shallow, at the same time apply- five bushels per acre, whether the field belong the five bushels per acre, and the five bushels per acre, whether the field belong the five bushels per acre, and the five bushels per ac out shallow, at the same time applying fertilizer in the usual way. This was fertilized or not. This clearly ing is not only rendering a valuable toulin Island has furnished the three ing fertilizer in the usual way. This was rerthized or not. This clearly supervision of the type of recreation will help the growth of alfalfa masshows what has been demonstrated in literature lectures and schools in the district with several carried on after the hall is established. will help the growth of alfalfa ma- shows what has been demonstrated service in literature, lectures and schools in the district with complete One Institute in Simcoe County has short courses but is a medium bet lunch equipment and a number of terially. In order to see just how many times, that line is a necessary short courses, but is a medium hot lunch equipment, and a number of been given sole charge of the program much it helps I would advise you to correcting agent in crop growth. through which the local organizations is a medium to the local organizations. helps I would advise you to correcting agent in crop growth. through which the local organizations drill row unfertilized over an Speaking generally, it is not a plantfood, hence lime will not take the are linked up with the services avail- cocoa, sugar, milk and vegetables and of seeing that all young people's

Community Halls and Recreation. Since the passing of the Community Halls Act, the Women's Institutes have been active in raising money to build community halfs or to renovate old halls to meet the standards re-

outside the city gates near a public due to an eclipse of the sun. Darkness love and trust. Into thy hands I comhighway leading into the city. And over all the earth; as if nature were in mend my spirit; again the words of the malefactors; two robbers of the sympathy with Christ in his suffering. serene and quiet confidence. If Jesus same class as Barabbas. Jesus is Veil of the temple . . rent. This was died of a broken heart, he did not die placed between them as if to identify the curtain that separated the Holy with a broken faith. He gave up the him with the worst of criminals. Place from the Holy of Holies. The ghost. The expression is rather-"He Father, forgive them. This is the first rending of the veil symbolized the fact rendered his spirit." None of the of the seven words from the cross, that Christ's death had made a new Evangelists say simply that he died. It Report of the Minister of Agriculture. This prayer for forgiveness was for and living way to God. In Matthew is as if they wished to imply that the soldiers who had nailed Jesus to we learn that the veil was rent from Jesus gave himself to death as he gave the cross. The soldiers were but the top to bottom, and that there was an himself to life, with deliberateness tools in the hands of others. Elsewhere earthquake and that many of the and willingness. He crowned in death

The crucifixion made very different for he must dring the cup of pain to last word of the cross. From the other impressions upon those who witnessed Meilleur Cheese.
Influence of Feeding on Type of Hogs. Parted his raiment. The Gospels we learn the fourth word it. On the soldiers, who actually did clothes of a criminal belonged to the (Matt. 27: 46, 47; Mark 15: 34, 35), the deed, it seemed to have made little executioners. They were divided by "My God, My God, why hast thou for-lot. They were divided by "My God, My God, why hast thou for-saken me?" This was the cry of one blind to the wonder and glory of the The people stood beholding. They who for the moment had lost his sense scene in which they were taking part. had played their part when they had of fellowship with God. It is the note Dr. Alexander Maclaren suggests that cried, "Crucify him." Now they were of an experience too deep for us to they were foreigners and probably passive spectators. The rulers . . . fathom, and possible only to one standderided him; the members of the San- ing in a relation different from ours the crowd. The act of crucifixion hedrin. They seem to have come to to man and his sin and to God and his would not be anything out of the orditheir hour of revenge. He saved others grace. We learn also the fifth word, nary for them, for it was part of their . . . save himself. They think that (Matt. 27: 48, 49; Mark 15: 36), which ordinary work in troubleus times. the submission of Jesus means help- was "I thirst." At this cry a sponge, Upon the members of the Sanhedrin lessness rather than willing sacrifice. saturated with vinegar and placed on and those who thought with them it It was because he was the Christ that a hyssop stalk, was placed to his line. had an extraordinary effect; the per-Then we have the sixth cry (John 19: fect revelation of goodness and spirit-Vs. 36-43. The soldiers also mocked; 30), "It is finished." This was not the ual beauty threw them into convultaking their cue from their superiors. faint utterance of a worn-out body, but sions of angry opposition. Even the Offering him vinegar. If this was not the deliberate utterance of a clear con-the drugged wine already mentioned, sciousness that his work was finished, ing afar off, saw only a very little way then it was given him as a grim and and that God's ordained purpose had into the meaning of what was taking cruel joke. A superscription. It was been fulfilled. It is not simply an end- place before their eyes. As Dr. James customary to inscribe on a tablet the ing of his sufferings, but a perfecting Stalker says: "When something grand cause of condemnation. In this case of the work which he came to do. is to be seen, there is required not only the Jewish authorities asked Pilate to Vs. 46. Father. The cloud that seem- the object but the seeing eye. The imthe Jewish authorities asked Phate to vs. 40. Father. The cloth the object but the seeing eye. The imchange the title so that it would read, ed to separate his soul from God has change in a mirror depends not only on "He said I am the King of the Jews." lifted. It is to his Father that he the object reflected but on the quality and configuration of the glass."

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Other community enterprises comsteady growth and marked progress. on under the direction of the agricui- way of concerts by local talent, and tural representative, have provided for outside speakers and entertainers. the judging of school plots, and assist- University Extension courses are behold exhibits. One Institute has tutes have brought in Chautaqua organized a class to train the school courses, and the number of requests girls in sewing for their school fair for speakers furnished by the Departexhibits. A few Institutes have been ment shows a marked increase this instrumental in having music, house- year. Several Institutes have purhold science and manual training chased moving picture machines on tinuation schools opened in rural making use of Government films. communities. There is a case on re- Other community ventures sponsered

> A hot brick in a padded box often will help bring through young pigs born in extremely cold weather.

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ing it wide open. Put the lime through the shouldering of responsibility on the fertilizer box. As spring opens the fertilizer box. As spring opens their part, is not conducive to the best of growing children better best of growing children best of growing childre the fertilizer box. As spring opens Answer:—Evidently your son needs their part, is not conducive to the best of growing children, better heating It is also of interest that the Institute backs, they will be happy to learn that investments for the man with money and the frost goes out the lime will lime. You should apply at least from development of the people concerned. are said to cost thousands of dollars vestors from 8 to 12 per cent., and for four years.

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Safe Investments for Farmers' Savings

Have farmers any money to loan? Yes, they certainly have, in spite of all calamity howlers and people who try to make you believe farming has gone to the dogs. There are conservative, hard working, thrifty farmers in every community who have saved money and are anxious to place it where it will bring a good rate of interest and be safe, since it represents days of toil and the best thought and management they could bring to their tasks.

Of course, everybody knows that government bonds are safe, and many country people have invested their savings in them; but, unfortunately, the country is filled with glib talkers who argue with conservative investors that it is worse than foolish to get 3 or 4 per cent. from a bond, when there are other, far better, securities paying at least twice that much interest. These investments range from oil stock likely to pay 15 to 20 per cent, in the very near future, to stock in some mysterious loan company that charges the borrower only 7 per cent. on a first-class, perfectly safe mortgage, and yet is able to give investers at least 8 per cent. yearly on their investment, or 4 per cent. each half-year, after paying the officers of the company for their services and taking care of all other expenses. Here Are Two Safe Investments.

It is time for hard-working farmers insects will kill the rascals. Warbles as perfectly safe that can pay ina year in ruined hides and a lot more still give the sellers of stock a comin reduced milk yields. A cow in Den- mission of from 15 to 30 per cent. mark which gave 33 pounds of milk is pretty sure to be a swindle. Men daily increased her yield to 44 pounds who have always passed for shrewd after 46 grubs were extracted. In one farmers and good business men have Danish neighborhood, 65 miles square, trustingly handed over their hardwarbles were about extinguished after earned cash to a "perfectly safe morteveryone made a point to go over all gage loan company," and received his animals every two or three months several gilt-edged dividends, only to find that they could not get their money back at the end of several years, and that all dividends ceased. Now it stands to reason that if the Government can guarantee only a small, safe interest on its paper, a little company without the resources of our great country back of it, is likely to slip, when it guarantees from 10 to 12 per cent, interest. The fact that some glib-tongued individual explains and illustrates with rows of figures how they are able to pay the high rate by "turning their money often," does not make the concern safe; and to talk about "our thousands of satisfied investors" does not convince the man who stops and thinks even a little below the surface. It is better to be safe than to be sorry, as many farmers have discovered too

Even a first mortgage on real estate needs close scrutiny. Do not loan where you are likely to be involved in litigation, as where a large number of heirs are involved in the ownership of a farm. Do not loan more than 40 per cent, of a farm's conservative value. Do not loan where the title is clouded. Do not loan to a man or woman in such health that the property is likely to change hands in a few months. Do not loan to a couple likely to apply for a divorce and involve the farm in ments, extending over 18 years.

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down and then now your tax on it like days, and then pay your tax on it like a patriotic citizen of the best country the sun ever shone upon. The next time a well-dressed, prosperous-looking man comes to tell you of a perfectly safe investment that will pay you at least 12 per cent, yearly, help him off the farm quickly, for he represents a fraud as sure as you live. -H. R.

POULTRY

In different colony houses, at the same time. I have given one hatch of chicks nothing but sour milk; another, sour milk and water; and the next one, only water. I have concluded that it pays to use both sour milk and water.

There is no doubt in my mind as to the influence of sour milk on rapid growth and quick feathering. The chicks with sour milk to drink have always developed better than those without the milk. But I also find that the chicks with both sour milk and water have done better than those which had only sour milk. I find that brooder chicks in a colony house near a coal-burning brooder stove become very thirsty and the milk does not entirely satisfy their thirst. They seem more contented when they can drink water too. I have never known the chicks to drink too much water if it is before them at all times.

If there is any scarcity of sour milk I have found it pays to mix the milk half and half with water. It does not clog the fountains easily, and the chicks seem to relish it just as much or more than clear sour milk. In caring for my chicks I have always tried to follow nature's methods as near as possible, even when the flocks are large and Prooded artificially. The chicks following hens under natural conditions often obtain their drinking water from the dew on the grass and leaves in the early morning. They are not stuffed all the time with sour milk, and yet they are healthy, beadyeyed chicks that grow. So I use both sour milk and water, and find the combination better than the look of either.