R. G. H .: - I have been getting poor

something else must be lacking in my

The lime corrects the acidity of the

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 malled direct.

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W. E. H .: I have three acres of cut them off with a sharp spade or a crop of seed off this ground this coming season, can you advise me on a good analysis of fertilizer which I year. I have used manure, and a a good analysis of refulizer which I year. I have used maintee, and a 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 testing apply it with a fertilizer drill, as I and have come to the conclusion that have one of these implements)?

Answer:—Alfalfa is a great lover soil. Clover doesn't thrive at all and of lime, therefore if you have not my cattle are not making the gains limed your soil recently I would advise that I think they should make. One limed your soil recently I would advise you to apply this lime at any time, even before the snow has entirely gone off. Take your fertilizer drift, leaving the discs or holes suspended, and opening it wide open. Put the lime through the fertilizer box. As spring opens the fertilizer box. As spring opens and the frost goes out the lime will lime. You should apply at least from work into the soil and correct any one to two tons of ground limestone per acre. This may be purchased sourness which may be there.

As soon as the soil is dry enough in from a number of concerns in Ontario. the spring to go over with a team, apply about 250 pounds per acre of wille. a fertilizer analyzing 2 to 3 per cent. The lime corrects the acidity of the nitrogen, 10 to 12 per cent. phosphoric soil and helps the physical condition nitrogen, 10 to 12 per cent. phosphoric acid and 2 to 4 per cent. potash. If or make-up. In actual tests the Ohio the ground is very closely packed, set the discs of the fertilizer drill to cut out shallow, at the same time applying fertilizer in the usual way. This clearly was fertilized or not. This clearly shows what has been demonstrated will help the growth of alfalfa ma-In order to see just how many times, that lime is a necessary much it helps I would advise you to correcting agent in crop growth leave a drill row unfertilized over an Speaking generally, it is not a plant-

average part of the field.

A. E. S.:—Which do you think is place of fertilizer or manure, neither place of fertilizer take the winter, swede turnips or sugar

them out but the more I dig the brings the kine into quick action. Do been wanting in most rural districts. thicker they get. Can you tell me of not apply lime and fertilizer at the The past year has been one of anything I can put on them to stop same time. their growth?

Answer:-With reference to swede turnips and sugar beets for cows the following is the analysis given by a representative chemist:

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

Swede turnips: water, 89.1; protein 1.2; carbohydrates, 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

soon as they show in the spring to need.

FARMERS' BOOKLETS

SENT FREE

For Home and Country

The Silver Anniversary a Gra tifying Year in the Women's Institutes.

BY G. A. PUTNAM, SUPERINTENDENT.

School Improvement and Child Welfare.

The Institutes are working more

school cleaned and re-decorated, sup-

ings. Proper seats to suit the needs

while it is a common feature of Insti-

tute work to present the school with

such things as library books, first aid

pictures or prints of classic paintings,

gramophones, pianos, weighing scales, screens to keep out flies, and hot lunch

equipment. One Institute on Mani-

toulin Island has furnished the three

schools in the district with complete

hot lunch equipment, and a number of

Institutes are assisting in supplying

cocoa, sugar, milk and vegetables and

other foods to be used for the hot

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 stitutes, which were first established that localities desiring service in the fact that localities desiring service in the that at the conventions held at Fort monstrations, are advised to form organizations and are required to hold organizations and are required to hold organizations and are required to hold organizations and the service of the se meetings, utilizing local talent. While siderably larger than in previous meetings, utilizing local tailent. While the service rendered by the Institutes Branch has been of real value and much appreciated, the activities of the women and girts in the local organizations has resulted in gaining much knowledge of practical value in the housing adothing and faciling of Grimm alfalfa seeded two years ago hoe. Get a pound or two of sulphate this coming spring on a light clay loam, which I manured the winter a large pail of water and sprinkle the preceding sowing of seed. As I would like to take a first cutting of hay and kill them out in a very short time.

B. C. H.:—I have three acres of cut them on with a sharp spade or the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the introduction of practical value in the housing, clothing and feeding of the family, the housing, clothing and feeding of most practical benefit to the people strength of body and mind, sublity to grapple with social, educational and economic problems through the cooperation of the whole people in the in the rural districts where there is interests of the community.

no other "school and home organiza-tion." A number of Branches have It has been demonstrated in the tion." A number of Branches have work of the Women's Institutes of installed sanitary drinking fountains Province for the past twenty years, that the value of the service rendered one Branch in Northern Ontario where the water supply for schools or is dependent to a very large extent upon the degree to which the people homes is a real problem, paid fifty dollars to have a well dug at the directly concerned can be induced to school and are proud of having struck put forth effort on their own behalf. flowing water. Others have had the For the Government or any organization outside of the community to plied washbasins and paper towels undertaken to perform service for the and in general improved the sanitary condition of the school and surroundpeople without requiring activity and the shouldering of responsibility on their part, is not conducive to the best of growing children, better heating and lighting systems have been put development of the people concerned, and does not result in a service of into several schools through the influence of the Institutes, and sometimes lasting worth. through their financial assistance,

We have in the Institutes of Ontarlo a form of organization and methods of work which are a very forceful factor in making towards efficiency, prosperity and contentment in kits, playground equipment, historical

the rural districts. The Institutes Branch, which has developed into a "Department of Home-Making and Community Building," is not only rendering a valuable service in literature, lectures and short courses, but is a medium through which the local organizations are linked up with the services availfood, hence lime will not take the able through other Departments of the Government and voluntary organmost profitable to feed dairy cows in will manure or fertilizer take the the Government and voluntary organ-winter, swede turnips or sugar place of lime. Both plantfoods and izations. The women of Ontario have lime should be used in a good system come to realize that they have a power

steady growth and marked progress. on under the direction of the agricui-

MARCH 18.

Jesus Crucified, Luke 23. Golden Text—He was wounded for our transgressions, he was bruised for our iniquities; the chastisement of our peace was upon him; and with his stripes we are healed.—Isa. 53: 5.

1. The Long Agony, 33-43. Calvary. Jesus had come from the mother judgment hall, bearing his cross, amid disciple, the lamentations of the women. Then the cross was laid on Simon of Cyrene.

his stripes we are healed.—Isa. 53: 5.

Lesson Setting—After the arrest of fainting their milk.

Relative to yields in tests reported by Dr. Zavitz, O.A.C., as an average of six years from the best yielding sugar beet he got 29.91 tons per acre; from the best turnip he got 21.01 tons per acre. Of sugar beets he mentions among the leaders, Giant White Feeding, Royal Giant and New Danish Improved. Among the turnips he mentions Garton's Superlative, Steel Brigg's Durham Sweded, Darsh and Hunter's Canadian Gem.

Relative to the killing of the horseradish plant I would advise you as soon as they show in the spring to This is the second word from the cross. The third word (John 19: 25-27), is Vs. 33, 34. When they were come spoken when Jesus commends his alvary. Jesus had come from the mother to the care of John, his

II. The Finished Work, 44-46.

the cross was laiffon Simon of Cyrene.

Y 4446. It was about the sixth of the control of the Vs. 44-45. It was about the sixth quired by the Act. One Institute in The word Calvary means skull. The Vs. 44-45. It was about the sixth place was probably a low mound, hour; at noon. Being the time of the shaped somewhat like a skull. It lay full moon, the darkness could not be

lunch. The Institutes continue to assist in tural representative, have provided for the judging of school plots, and assist-The Sunday School Lesson of prosper the funding of school prosper to the school prosper to the funding of school prosper to the funding of school prosper to the school prosper organized a class to train the school girls in sewing for their school fair exhibits. A few Institutes have been instrumental in having music, housescience and manual training taught in their schools, and a number have been responsible for having continuation schools opened in rural

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 halls or to renovate old halls to meet the standards ro-

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Northern Ontario was successful in renovating an old cheese factory to meet all the necessary requirements. It is also of interest that the Institute at Spry, in the Bruce Peninsula, twenty miles from a railway, has secured a ninety-nine year lease of the Orange Hall, and rebuilt it to make it a comfortable gathering place. Where the Institutes have not contributed to the actual building of the hall, they have, in a great many communities, donated such accessories as a piano or kitchen equipment. In many places the Institute is represented on the Poard in supervision of the type of recreation carried on after the hall is established. One Institute in Simcoe County has been given sole charge of the program of entertaining, with the responsibility of seeing that all young people's gatherings are properly chaperoned.

Other community enterprises com mon to Institute work are the estabwinter, swede turnips or sugar beets? Which will give the biggest yield in tons per acre? Can you recommend some good keepers?

Lime can be applied any time in the year, in fact it is good practice to plants growing in my garden. I have apply lime just before the snow goes tried to get rid of them by digging off. The early working of the soil to get rid of them by digging tried to get rid of them by digging the kime into quick action. Do the work of medical school inspection lishing of memorial parks and athletic way of concerts by local talent, and outside speakers and entertainers. University Extension courses are becoming very popular. A few Institutes have brought in Chautaqua courses, and the number of requests for speakers furnished by the Department shows a marked increase this year. Several Institutes have purchased moving picture machines on the plan of instalment payments arranged by the Government and are making use of Government films. communities. There is a case on re- Other community ventures sponsered cord where a number of children in a by the Institutes are the inauguration farming section were ready for high of a "clean-up week," a county camschool but would never have an op- paign for home beautification, an appeal to the council to have certain public nuisances or dangers removed, such as in one case, the draining of a ditch which was breeding mosquitoes to the great annoyance of the congrethey responded with a few hundred gation of a neighboring church.

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

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To Kill Warbles.

If your cattle have warbles in their backs, they will be happy to learn that an inexpensive mixture of one part iodoform and five parts vaseline pressed into the openings made by the insects will kill the rascals. Warbles are said to cost thousands of dollars a year in ruined hides and a lot more in reduced milk yields. A cow in Denmark which gave 33 pounds of milk daily increased her yield to 44 pounds after 46 grubs were extracted. In one Danish neighborhood, 65 miles square, warbles were about extinguished after everyone made a point to go over all his animals every two or three months for four years.

Cement must not be dried too rapid-



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