This Department is for the use of our farm readers who want the advice of an expect on any question regarding soil seed, crops, etc. If your question is of sufficient designal interest, it will be answered through this column. If stamped and addressed envelope is enclosed with your letter, a complete answer will be mailed to you. Address Agronomist, care of Wilson Publishing Co., Ltd., 73 Adelaide St.W., Toronto.

Smut of Oats.

The oat crop of Canadasis estimated at about 400,000,000 bushels. The average loss tem oat smut, usually placed at four towix per cent., means the destruction of about 20,000,000 bushels, a loss which can easily be prevented by seed treatment.

Oat smut is easily recognized as it destroys the kernel and hull and sometimes the chaff, changing them to a black dusty powder composed of millions of spores, which are scattered by the wind and which lodge on the sound oats in the vicinity. When this grain is sown the smut spores germinate and infect the young seed lings. The smut develops inside the germinate and infect the young seed-lings. The smut develops inside the growing plant and reduces the kernel to a mass of spores instead of sound to a mass of spores instead of sound

treat the seed with a solution of formaldehyde by one of the following methods.

The air. When the engine is the tenger attended by the six sufficient heat generated by there is sufficient heat generated by there is sufficient heat generated by the exhaust and radiated from the than behind of formaldehyde (formalin) and the pint of formaldehyde (formalin) and the pint of formaldehyde (formalin) and the pint of the cather. The sex of gees can generally be toold by observation. The gander to did yo observation. The gander than the gross ergs requires five tools which reasons and is not also warms the drinking water for grows larger than the goose is deeper in body, a triffe slim-the catle. By this simple device a water product is made of practical use—which is carrying "conservation" the carles, and smaller in head. The special powers and allow to drain on slats into the casks, as the solution may be used several times. Then pile the grain on a clean floor and to the casks, as the solution may be used several times. Then pile the grain on a clean floor and to the casks of the carles of the grain of the carles of the kidney of the carles of the carl

to a mass of spores instead of sound grain.

The object of seed treatment is to kill the spores lodged on the grain.

The safest and best method is to treat the seed with a solution of formaldehyde by one of the following methods:

Dipping method.—Mix well one pint of formalichyde (formalin) in the spore in the seed with a solution of the distribution of the spore in the seed with a solution of the spore in the exhaust to escape into the air. When the engine is running there is sufficient heat generated by the exhaust and radiated from the tank to raise the temperature of the trongs.

The above of spores instead of sound grain.

Suit your soll and crop.

Ask your dealer about Gunn's "Shur-Gain" to-day and write us for interesting Booklet, "Bumper Crops."

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The above of spores are a mixture to connected with a rectangular frame of gas pipe resting on the floor of the trongs. Ask your dealer about Gunn's "Shur-Gain" to-day and write us for interesting Booklet, "Bumper Crops."

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the caths, allowing to south for about the cashs, and houring to south for a source of the cash and houring to south the cash, as the solicity of the cash and the cash as the source of the cash and the cash as the source of the cash and the cash as the solicity of the cash and the cash as the source of the cash as the source of the cash and the cash as the source of the cash as the cash as the source of the cash as the source of the cash as the source of the cash as the cas

on the new feeling more aerice out of their farm machinery.

In the centre of the engine house on this particular farm is the gase. For producing strong chicks two-pressor tank and the dynamo, the corn-sheller and feed grinder on the right. At the extreme left is the room are the storage batteries and a work-bench.

The five horse-power engine is run for half an hour night and morning it is capable of filling the batteries from the days and a work-bench.

The five horse-power engine is run for half an hour night and morning it is capable of filling the batteries from the strength of the strength of

GOOD HEALTH QUESTION BOX

By Andrew F. Currier, M.D.

Dr. Currier will answer all signed letters pertaining to Health. If your question is of general interest it will be answered through these columns; if not, it will be answered personally if stamped, addressed envelope is enclosed. Dr. Currier will not prescribe for Individual cases or make diagnosis. Address Dr. Andrew F. Currier, care of Wilson Publishing Co., 73 Adelaide St. West, Toronto.

Lumbago.

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nearly saturated with moisture and the wind south, south-east, or north-east an attack of lumbago may be expected by those who are suscepti-

learn to start the load. Gradually accustom him to automobiles, street cars and railway trains, until he learns they will not hurt him.

For To-Day. Laugh and be glad while you may; There are so many to-morrows. There is but one to-day

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IT PAYS TO FERTILIZE

The Soil and Crop Improvement Bureau of the Canadian Fertilizer Association 1110E TEMPLE BLDG., TORONTO

Putting Your Mind On It.

The Boy's Market Garden.

money. Self-reliance is one of the most noble traits of character a boy Lumbago.

Recent medical writers fight shy of this term, but like crick-in-the-back, homely and expressive and supposed to mean the same thing, it has long been used by plain people and may not readily be displaced by a more scientific or exact term.

It means pain in the lower or lumbar region of the back and seems to be seated in the muscles of that region.

After being around a few hours during the day your back is so painful and all motion is so difficult that it seems as if you could never again get to be down to a chair or get into bed.

Not infrequently there is involuntary cramp or spasm of small portions of the muscles which is extremely painful.

Usually it is nossible to get into a monoying, more and more annoying, more and more painful.

When you get down to a chair or spend, but it develops business traits a been sa if you could never again gives him a knowledge of the make good gardeners, cattle breedman move with any degree of comfort or freedom from pain.

After being around a few hours during the day your back is so painful and all motion is so difficult that it is am infectious disease like the rheumatism, as many dothough it is unlikely that it is an infectious disease like the rheumatism which attacks the joints.

Usually it is possible to get into a cardinate a boy or man may possess. It not only makes a boy feel independent of his parents when he wants money to spend, but it develops business traits and gives him a knowledge of the walle of things. All boys would not make good gardeners, cattle breed-or seasond gives him a knowledge of the walle of things. All boys would not make good gardeners, cattle breed-or seasond gives him a knowledge of the walle of things. All boys would not make good gardeners, cattle breed-or seasond gives him a knowledge of the walle of things. All boys would not make good gardeners, cattle breed-or seasond gives him a knowledge of the walle of things. All boys would not make good gardeners, cattle breed-or seasond gives him a knowledge of the walle of things. A

though it is unlikely that it is an infectious disease like the rheumatism which attacks the joints.

But whatever its cause it is a mighty unpleasant thing to have. But it is one of the signs of approaching age and feebleness, for I never knew of a case in a person who had not passed middle life, and the older one gets the more susceptible to it he becomes.

There does not seem to be any out.

There does not seem to seem to seem to get into a position to another and find to a garden or truck patch can be made to pay find a gard There does not seem to be any out.

There does not seem to seem to see that out.

There does not seem to see that of their food. Other winds of soil may be made to produce winds of soil may be made to produce good crops of vegetables, but as a good crops of

ble to it, no matter what precautions as may be necessary to keep the air. The root goes down because they may take to keep it off.

It begins with stiffness in the muscles on one or both sides of the lower portion of the back, which rapidly surface. is a sort of stomach for the plant.

If a plant has no root it would not are a pant has no root it would not grow any more than a boy would if he had no stomach in which to put his food. The root has numerous small mouths or openings that resemble a sponge but as the plants feed by them we may call them mouths—but do not think of them as real. but do not think of them as real mouths. These are the fine parts of the roots that you see hanging to the main branches. When we transplant a plant to another part of the garden the plant will die just the same as would if you would stop eating

people live from a well-supplied table. Each plant chooses its own food just the same as a person. Sometimes one plant requires different food than another and will not do well in a certain kind of soil where the other plant will thrive exceedingly well. When this is the case we must feed the plant by putting in the soil the kind of food that it needs for all plant food must first be put in the soil to be acted upon by the air and

Now is a good time to make plans for your garden. Send for some seed catalogues and study the descriptions of the different kinds and varieties of vegetables and make a map of your of the amount of seed needed to plant your garden, and order it early. Send order to some reliable seedsman your order to some reliable seedsman who has seed that is adapted to your soil and climate.

Care of Caulk Wounds

Conditions are just right now for caulk wounds at the crown of the hoof. A caulk wound should be thoroughly cleansed at once by injections with a mild antiseptic, such as common salt —a teasponful to a quart of water. A tablespoonful of chlorinated lime to a quart of warm water, applied thoroughly twice a day to every part of the wound, is also very good for this preliminary cleansing. Either one should be applied continuously to every part of the wound for at least an hour before the wound is con-sidered thoroughly and safely clean. Strong disinfectants may also be used. These give quicker results and are in some cases more practical. are in some cases more practical. may be used. Two or three thorough treatments should be given the first day. Plugs of cotton may be soaked in the tincture of iodine and packed in the wound.

After this first thorough treat-

ment, use a drying antiseptic powder, composed of equal parts by bulk, of iodoform, tannic acid and boracic acid, applying lightly three times a day. It is of the utmost importance to keep such a wound out of mud and

One of the peculiar properties of iodine as that a seven-thousandth part of it will give water a deep, yellow color, and starch a purple. When heated it rises as a dense, violet colored as and as a dense, violet colored as a series of the selection and as a series of the selection as a series of the selec et-colored vapor.