Butter grant from Michigan

Tractor, Autoor
Stationary
POLARINE OIL
STANDARD GAS
ENGINE OIL
For Kerosene Engines
Tractor or Stationary
POLARINE OIL
HEAVY
POLARINE OIL A
IMPERIAL KEROSENE TRACTOR OIL
IMPERIAL KEROSENE TRACTOR
OIL EXTRA HEAVY
(Recommended by
many tractor manufacturers)

For Steam Cylinder

Lubrication,

whether Tractor or

Stationary Type

CAPITOL

CYLINDER OIL

-the standard pro-

duct for steam

cylinder

lubrication

IMPERIAL OIL

SERVICE

to be of service to you,

Talk over your lubrication needs with the Imperial Oil man.

There is an Imperial Oil man near you and he is there for that very thing. You will find him well posted on farm lubrication and glad

For Open Bearings of Farm Machinery

PRAIRIE

HARVESTER OIL

For Grease Cup

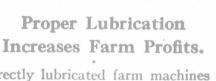
Lubrication of

Bearings, a clean

solidified oil high

melting point.

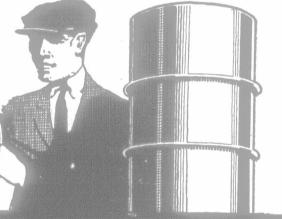
APRIL 3, 1919



Correctly lubricated farm machines do last longer. Correctly lubricated engines, trucks, tractors and automobiles not only last longer but they will do more work or go more miles at less fuel expense than those poorly lubricated.

barrels and barrels.

resists cold, won't thin out with moisture Selecting Imperial Lubricants, the high qualities of which are recognized every-ELDORADO where, is a step in the right direction. CASTOR OIL The next thing is to use the proper lubria thick oil for worn and loose bearings cant for each machine and each purpose. There is no all-round lubricant. There is an Imperial Lubricant made especially for each need. A few recommendations are mentioned in the panels at the left. All Imperial Lubricants can be promptly supplied in a size suited to your needs. They come in half gallon, one gallon and THRESHER and four gallon sealed cans, in half HARD OIL



Power · Heat · Light · Lubrication Branches in all Cities

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Beachville White Lime

If your soil is not as fully productive as it should be, it may be over-acid, and an application of BEACH-VILLE WHITE LIME will produce wonderfully beneficial results in your crops.

Our Lime-stone is the highest grade in Canada, Write for free folder containing information you should have.

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PATENTS Trade Marks and Designs
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Special attention given to patent litigation.
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Shorten Piggy's Growing Stage -prevent him from getting a set-back at weaning-get him in the habit of putting on This is the greatest feed you can get for pigs at the weaning period. It gives them just the right start for that quick growth that spells profit. Gardiner's Pig Meal is put up in 25, 50 and 100-lb. bags. If your Idealer hasn't it, write us for prices—and for particulars about Gardiner's Calf Meal, Ovatum, Sac-a-fat and Cotton Seed Meal, GARDINER BROS., Feed Specialists, SARNIA, Ontario. 13



Smut of Oats.

The oat crop of Canada is estimated at about 400,000,000 bushels. The average loss from oat smut, usually placed at four to six 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 seedlings. The smut develops inside the growing plant and reduces the kernel 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 formaldehyde (formalin) in forty gallons of water, putting the solution in barrels or casks. Put the seed in coarse bags that the solution will readily pass through and dip into the casks allowing to soak for about five minutes till every grain is wet. Remove the bags 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 cover with sacks or canvas for two or three hours. Dry the grain by spreading on a clean floor and stirring now and then. Sow the grain as soon as it will run freely or if necessary to store, dry thoroughly as damp seed will mould or sprout.

Sprinkling Method.—Pile the grain on a clean floor or grain wagon and sprinkle the grain with the solution, using a sprinkling can shovelling the seed from one pile to another so that each kernel will be thoroughly wet. About a gallon of solution will be required for each bushel of grain. Cover the grain as in the dipping method and dry.

Do not allow the wet grain to freeze as it might injure germination. the grain has been treated and is damp and swollen the rate of seeding should be increased about three-fourths of a bushel per acre. Any bags or receptacles used for holding the treated grain should be disinfected in the solution of formalde-

Dry Method.—This method has been recently introduced but requires more care. A solution consisting of one pint of formaldehyde to one pint of water is sprayed on the grain while it is being shovelled over a clean floor on canvas. A sprinkling can must not be used as a that will deliver the solu the form of a mist is necessary. In this method there is no danger of freezing and no drying is required. It should not be used for wheat except in an experimental way. One quart of the solution will treat about fifty bushels of seed :-Experimental Farms Notes.

"Holland, in harboring the kaiser, is being loyal, she says, to her best traditions. But isn't she being too loyal?" The speaker was an official of the ship-

ping board. He went on:
"Holland in her loyalty reminds me of a story. A certain man went out in his automobile, and failed to turn up for dinner. Bedtime came, and still he hadn't turned up. The small hours

—and no sign of him.

"Then the man's wife, frantic, sent off telegrams to his six best friends, all worded the same, namely: "'Is George passing the night with

"Well, George turned up at breakfast in a farm wagon. He had had an accident in the depths of the wilderness. Oh, George had had a horrible time,

"As he recounted his adventures and devoured ham and eggs, the maid brought in on a silver plate six telegrams that had arrived simultaneously. George's opened and read them one by one. They were all worded alike. Each said; "'George passed the night here."