

**The Eleven That Pay You Best**

<b>BARRED PLYMOUTH ROCKS</b> WYANDOTTES—Silver-Laced, Golden, Buff, or White RHODE ISLAND REDS	<b>WHITE PLYMOUTH ROCKS</b> SINGLE COMB BROWN LEGHORNS BUFF ORPINGTONS	<b>BUFF PLYMOUTH ROCKS</b> ROSE COMB WHITE LEGHORNS BUFF ORPINGTONS
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For less than you think you can buy single fowls, trios or pens of STANDARD BREED, true strain birds of these eleven breeds, that pay best in Canada. Every bird warranted healthy and thoroughbred. Write for prices and learn WHY it will pay you to breed up your poultry THIS year.

JOHN BROWN, President; F. C. ELFORD, 1st Vice-President; PETER WHITE, 2nd Vice-President; JOHN L. BROWN, Secretary; THOMAS W. LEE, Managing Director.

**Poultry Yards of Canada, Limited**

Dept. 18, **Pembroke, Ontario**

## How many times during a year would you be willing to pay a few cents an hour for a reliable power?

A good many times, no doubt. For grinding or cutting feed, sawing wood, separating cream, churning, pumping water, grinding tools, and a score of other tasks. A good many times, indeed, and when you want it you want it without delay.

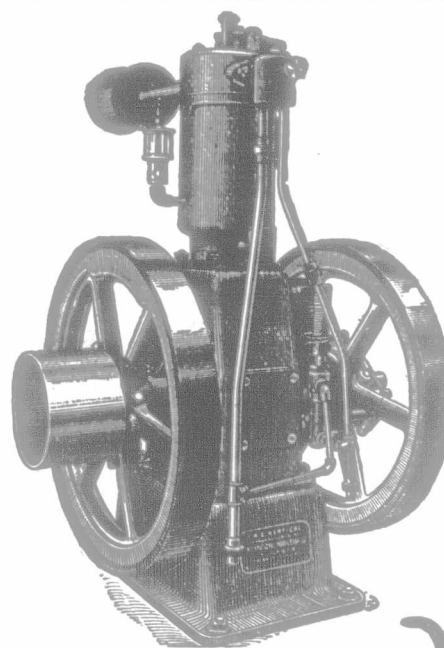
An I. H. C. gasoline engine will furnish such power—a 3-horse engine, for instance, will furnish power equal to that of three horses at the smallest cost per hour, and it will be always ready when you want it, and ready to work as long and as hard as you wish. You don't have to start a fire—not even strike a match—to start an I. H. C. gasoline engine. All you have to do is close a little

switch, open the fuel valve, give the flywheel a turn or two by hand, and off it goes, working—ready to help in a hundred ways.

Stop and think how many times you could have used such convenient power last week, for instance.

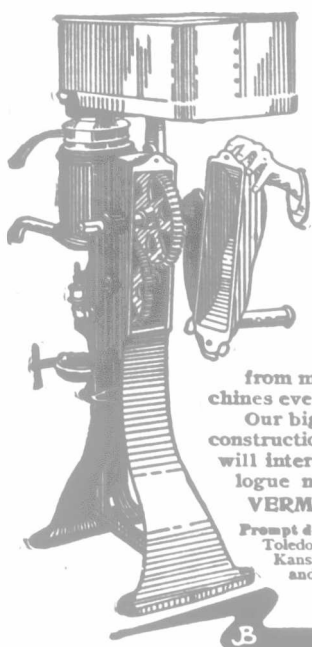
There should be a gasoline engine on every farm. Whether it shall be an I. H. C. or some other engine on your farm is for you to decide, but it will pay you well to learn of the simple construction of I. H. C. gasoline engines before you buy. It will pay you to find out how easily they are operated, how little trouble they give, how economical in the use of fuel, how much power they will furnish, how strong and durable they are.

CANADIAN BRANCHES: Calgary, London, Montreal, Ottawa, Regina, St. John, Toronto, Winnipeg.  
**INTERNATIONAL HARVESTER COMPANY OF AMERICA, CHICAGO, U. S. A.**  
 (INCORPORATED.)



These engines are made in the following styles and sizes:—Horizontal (stationary or portable), 4, 6, 8, 10, 12, 15 and 20-horse power. Vertical, 2 and 3-horse power.

It will pay you to know these things. Call on our local agent or write nearest branch house for catalog.



## STRONG and DURABLE

Compact, all the parts accurately made, finely adjusted and working together smoothly; and at the same time, strong, well built, easy to keep in order and light running—these are the features you want to find in a cream separator before you buy one. And when you see a

### U. S. CREAM SEPARATOR

you won't have to look any farther. It has them all. That's why it outwears all other makes.

Durability is what the "cheap" separators lack, yet it is most important. We have received letters from many users of the U. S. Separators who have run their machines every day for 10 years and more with entire satisfaction.

Our big, handsome, new catalogue shows plainly all about the construction and wonderful skimming records of the U. S. It will interest you. For free copy write us this way. "Send catalogue number A 110", addressing

VERMONT FARM MACHINE COMPANY, Bellows Falls, Vt.

Prompt deliveries of U. S. Separators from warehouses at Auburn, Me., Buffalo, N. Y., Toledo, O., Chicago, Ill., LaCrosse, Wis., Minneapolis, Minn., Sioux City, Ia., Kansas City, Mo., Omaha, Neb., San Francisco, Cal., Portland, Ore., Sherbrooke and Montreal, Que., Hamilton, Ont., Winnipeg, Man. and Calgary, Alta.

Address all letters to Bellows Falls, Vt. 439

## To Our Friends From The Old Land

By special arrangement with the publishers of the Overseas Edition of the London Daily Mail we are able to make this special offer:

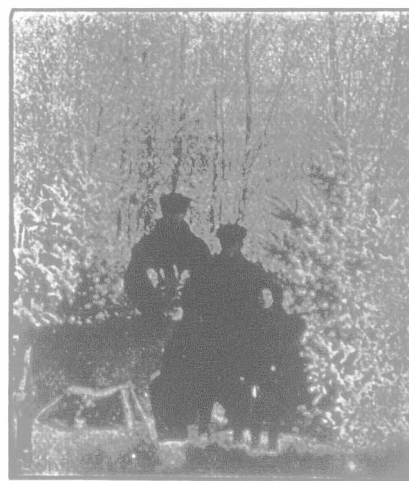
The Farmer's Advocate one year..... \$1.50	Our special clubbing offer gives both
The London Daily Mail one year..... 1.75	the papers for only..... \$2.25
Both together are worth ..... 3.25	

You should keep in touch with the Homeland and read the best agricultural literature. This is easily done by this special low priced offer.

**The Farmer's Advocate**

**Winnipeg, Man.**

## VIRDEN NURSERIES



**200,000**

Trees and cuttings, small fruits, shrubs, creepers, spruce, apples and crabs.

I have by far the largest stock in the West of these hardy, fast growing Russian poplars and willows; I send everything by express, prepaid, so as to arrive in good order. Trees may be returned at my expense if not satisfactory. No agents, no commissions, selling cheap. A postal card will bring you my price list and printed directions.

**JOHN CALDWELL, Virden Nurseries**  
**VIRDEN, MAN.**

## FERGUSON & RICHARDSON

*Barristers, Solicitors, Etc.*

Canada Life Building Winnipeg, Canada

Solicitors for Farmer's Advocate

M. FERGUSON W. W. RICHARDSON

1. For treating seed grain to destroy the spores of smut: Either of two methods may be used, sprinkling or immersion. The former is the simpler of the two; it consists in sprinkling with a solution of one pound (a little less than a pint) of formalin to thirty two gallons of water.

2. Treating seed potatoes to destroy the spores of scab: Soak the tubers for two hours in a solution of 8 ounces of formalin to 15 gallons of water. It is advised to plant within two or three days after treatment. This treatment is quite as effective as and very much safer than the use of corrosive sublimate, which was formerly advised.

3. A solution of one part formalin to ten parts water is said to make the best treatment to prevent joint-ill in colts and white scours in calves. Both of these diseases are caused by specific bacilli, which enter the system through the navel cord of the newborn foal or colt. Washing the cord 3 or 4 times daily with the solution disinfects it completely, at the same time causing it to shrivel and dry up, thus preventing the admission of germs.

4. For certain forms of calf scours (those not due to mistakes in feeding or mechanical irritation) an internal administration of formalin has been found a satisfactory cure. We recently published an item which related the experience of a man who saved a calf's life by feeding it from a nipple on new milk, in each pint of which he had put a tablespoonful of a solution made by diluting half an ounce of formalin in 15½ ounces of water.

5. For thrush in horses' feet, cleansing and occasional dousing with a solution of one part formalin to five or six parts of water is said to be the best treatment yet tried.

6. For disinfecting houses, to rid them of the germs of contagious diseases, formalin probably has no equal. The plan used to be to vaporize the gas by heating in a special apparatus, allowing the space to be disinfected to become filled through the keyhole of a door or some other orifice, with the pungent, searching gas.

Lately, a simpler means of using formalin has been devised. Formaldehyde candles may now be purchased which, being simply lit and placed in the room, will disinfect it without further trouble. The candles, we believe, are somewhat more expensive than the vaporized liquid, but are more convenient to use.

7. Formaldehyde gas is used by nurserymen to disinfect their stock of San José scale and other fungous and insect pests. A load of trees or bushes is hauled into the house, which is then filled with the gas.

8. Formaldehyde is an efficient preservative, and has largely displaced alcohol as a preserving liquid for anatomical specimens, a dilute solution being much used in medicine and surgery, in pharmaceutical preparations and in microscopy. Under various trade names, it has been put upon the market as a "harmless" preservative of food products, but the highest authorities condemn its use in any quantities as a preservative of foods.

Every year we hear of some new purpose to which formalin is devoted. It is cheap, and not violently poisonous, though taken internally it is poisonous and formaldehyde gas is very irritating to the eyes—like oil of mustard. It may be purchased in quantities of a gallon or more for \$4.00 a gallon. Every farmer should keep a supply on hand. It should be remembered that it is liable to waste, being volatile when exposed to the air, losing moisture and becoming solid.

To-day formalin is the most important article that can be kept in the farmer's drug closet. Its virtue lies in its antiseptic, disinfectant, fungicidal and preservative properties, which adapt it for so many purposes that an enumeration of some of the more important will be useful for THE FARMER'S ADVOCATE readers. In passing, it may be worth while to note that formalin is simply a forty-per-cent. solution of the gas formaldehyde in water.

As our readers will remember from a previous issue, it does not weaken even though the cork be left out, according to Prof. Bolley.