



### How Home Mixing Makes European Farmers Prosperous

They buy straight materials and mix them into balanced fertilizers containing two or three times as much

## Nitrate of Soda.

as high-priced American complete fertilizers contain. Your fertilizer should contain 4% of active nitrogen. Does it?

On land farmed for centuries, England raises 33 bushels of wheat per acre. We raise but 14. Europe imports 100% active Nitrate of Soda. You use dried blood, tankage only 60% to 70% active and you pay more for it.

"Home Mixing" is a book to help you increase your yields. Send your address to me on a postal card.

**Dr. W. M. S. MYERS**  
Director Chilesen Nitrate Propaganda  
25 Madison Ave. New York  
No Branch Offices



WE SELL DIRECT. GET PRICES ON  
**DILLON'S LITTER CARRIER**  
R. DILLON & SON OSHAWA, ONTARIO.

### Glengow Shorthorns

Five of the best bull calves ever in the herd, ranging from 9 months to 15 months. A "Kilblean Beauty" calf, a show proposition. A number of choice heifers, all ages. Write for prices.

W. M. SMITH, Columbus, Ontario

### "OAKLAND" 47 SHORTHORNS

Bulls and females of No. 1 quality. Present offering is three grand bulls, 11, 15 and 20 months respectively. Also a few females of milk strain. "Visitors say they find things as represented."

J. NO. ELDER & SON, HENSALL, ONTARIO

### Spring Valley Shorthorns

A few of the best young bull prospects we ever had. They will please you. Will sell females too. Visit the herd; we think we can suit you. Particulars on application. KYLE BROS., R. R. No. 1, Drumbo, Ont. Telephone, Ayr

### Shorthorns For Sale

8 yearling bulls of the right kind, 2 high-class herd headers, 12 months, one from imp. cow, 4 bull calves, also young cows and heifers, some good milking strains.

Stewart M. Graham, Lindsay, Ont.

1854 MAPLE LODGE STOCK FARM 1914

**Shorthorns and Leicesters**  
I have a most excellent lot of young rams for sale, mostly sired by imported Connaught Royal. Something very choice in young bulls. House one mile from Lucan Crossing G. T. Ry.  
A. W. SMITH, MAPLE LODGE, ONTARIO

### SHORTHORNS FOR SALE

I have two extra roan bulls; fourteen and fifteen months old, one from imp. dam. Also some heifers, all bred in the purple. Phone or write: Hugh Thomson, Box 556, St. Mary's, Ont.

**Spruce Lodge Shorthorns & Leicesters**  
Present offering: A number of good heifers and young cows, with calf at foot, from good milking families. A few ram lambs and a choice lot of yearling ewes, now bred to imp. ram.  
W. A. Douglas, R. R. No. 2, Caledonia, Ont.

### Questions and Answers. Miscellaneous.

#### Soiled Suit.

Would you please tell me what would remove slag from a navy-blue suit? It became smeared while attending to acetylene-gas lights, and the slag burst out on the clothes. It leaves a bluish mark.  
M. F.

Ans.—Can any of our readers answer this?

#### Farm Fencing

A's and B's farms join. The concession road allowance lies between them. B has all the road allowance and he has his land all cleared. B has always kept the line fence in repair. Now he wants to make A build half of line fence. A's land being in bush, can B compel A to build half of line fence?

Ontario. A SUBSCRIBER.

Ans.—No.

#### Seed Oats.

Having seen the item of "What the Experimental Union is Doing," discussing the different varieties of farm crops, I thought it would be no harm to write and ask you where a person could obtain some seed grain of either the O. A. C. No. 72, or O. A. C. No. 8 varieties of oats?

F. L. L.  
Ans.—At the present time, there are very few farmers who have any considerable quantity of O. A. C. No. 72 oats, or O. A. C. No. 8 oats. You may be able to get seed through the Experimental Union, or from some of the seedsmen advertising in these columns, but at present the quantity, especially of No. 8, is limited. If you would become a member of the Experimental Union, you might be able to get a few pounds for a start for experimental purposes, free of charge. Many growers of good seed grain have commenced by this method, and have succeeded in producing, after a few years, large quantities of the best varieties of our present-day cereals.

#### Sale of Colt.

What is the law on selling a colt that was altered last spring? There was one stone that could not be found, and no sign of it since. If the colt was sold without saying anything about it, and it caused the purchaser any trouble later on, could the purchaser collect damages from the man who sold it?

W. C. K.  
Ans.—We think that it is likely that the purchaser of the horse could collect some damages, or make the seller take the colt back. However, this depends to a great extent upon the agreement between the two parties when the sale was put through. You state that it was not mentioned that the colt was a ridgling. The seller certainly should have mentioned this. It would be impossible for the buyer to ascertain this in some instances, no matter how good a horseman he was, and taking all circumstances into consideration, we think that the seller should be liable for damages under such conditions.

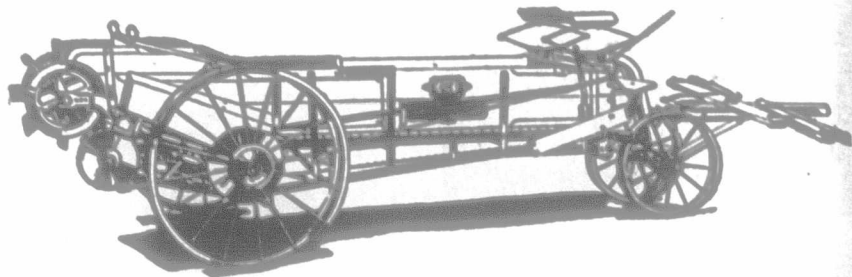
#### Pasturing Wheat.

1. Does it do any harm to fall wheat to pasture it in the fall, it being sown the same fall?  
2. Does it hurt new seeded alfalfa to be pastured the first fall?

H. E. B.  
Ans.—1. Under some conditions, where the fall wheat has an exceedingly large top in the fall, it is thought to be beneficial rather than harmful, to pasture it lightly. Of course, it would not do to pasture it closely, and on the whole we do not believe it is good practice to pasture wheat. We think that more wheat is injured through not having enough top than by having too much, although we have seen fall wheat come through in very good condition and yield large crops after having been pastured in the fall. However, some care is necessary, and unless the top is very large, we would not advise pasturing.

2. Pasturing alfalfa in the fall is not the best practice. However, sometimes it grows considerable feed, and may be pastured lightly. If pastured too closely it is quite likely to winter-kill. We have seen people run the mower over it very early in the fall, or late in the summer, and then let it grow up again. Of course, it should not be pastured at all in wet seasons when the stock is likely to punch the land.

## International Harvester Manure Spreaders



THE I H C LINE  
GRAIN AND HAY  
MACHINES  
Reapers, Reapers  
Mowers, Mowers  
Balers, Balers  
Hay Loaders  
Hay Presses  
CORN MACHINES  
Planters, Planters  
Harrows, Cultivators  
Endless Cultivators  
Shellers, Shellers  
TILLAGE  
Combination  
Fur and Spring-Tools  
and Disk Harrows  
Cultivators  
GENERAL LINE  
Oil and Gas Engines  
Oil Tractors  
Manure Spreaders  
Cream Separators  
Farm Wagons  
Motor Trucks  
Trucks  
Grain Drills  
Feed Grinders  
Knife Grinders  
Blender Twine

INTERNATIONAL Harvester manure spreaders have a score of good features in their construction. Each one is the result of careful field experiment.

An I H C spreader is low enough for easy loading, yet it has plenty of clearance underneath. The rear axle is well under the load, rear wheels have wide rims and Z-shaped lugs, insuring good traction under all conditions. Frame, wheels, and all driving parts are of steel. Apron tension is adjusted by a simple device. Winding of the beater is prevented by large diameter, and beater teeth are strong, square and chisel-pointed.

International manure spreaders are built in several styles and sizes, low or high, endless or return apron, for small farms or large. Examination will show sturdiness of construction in every detail. Repairs, if ever needed, may always be had of the local dealer.

Examine International spreaders at the dealer's. We will tell you who sells them, and we will send you interesting catalogues.



International Harvester Company of Canada, Ltd

At Hamilton, Ont.; London, Ont.; Montreal, P. Q.; Ottawa, Ont.;  
St. John, N. B.; Quebec, P. Q.



## Shorthorns & Clydesdales

We have seven yearling bulls and seven bull calves from 7 to 12 months. All reds and roans, and of choice breeding. We have some extra good imported males for sale, also some females. If interested write for catalogue of their breeding.

W. G. PETTIT & SONS, FREEMAN, ONTARIO  
Burlington Junction, G. T. R.

Bell Phone.

## SHORTHORNS

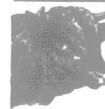
"A PLENTY." I have a wide range for selection in Shorthorn bulls and heifers, pure Scotch or Scotch topped, beef and beef type. Dairy bred and dairy type; make a point to visit my herd at Markdale, Ontario.

T. L. MERCER.

MARKDALE, ONTARIO

### Shorthorns

I have ten young Shorthorn bulls, some fit for service now. Part of them are bred, and made so that they are fit to head the best herds in any country, some of them are of the thick, straight, good feeding kind, that will produce money-making cattle; some of them are bred from the best-milking Shorthorns, and the prices of all are moderate. I have Shropshire and Cotswold rams and ewes of all valuable ages. Write for what you want. I can suit you in quality and in price. Ask for Bull Catalogue.  
ROBERT MILLER STOUFFVILLE, ONT.



### Glenallan Shorthorns

We have some of the best young bulls we ever bred, Scotch or Booth breeding, low thick mellow fellows of high quality.  
also some heifers. Glenallan Farm, Allandale, Ontario.  
R. MOORE, Manager.

**MEADOW LAWN SHORTHORNS OF RICHEST AND ABLE SCOTCH BREEDING, and of high-class type and condition.** I can supply young bulls and heifers—Clarets, Roan Ladys, Mildreds, Stamfords, etc. L.-D.-Phone  
F. W. EWING, R. R. No. 1, ELORA, ONTARIO.



### SHORTHORNS

of breeding, style and quality. If in want of an extra choice herd header, carrying the best blood of the breed, or a limited number of right nice yearling heifers, write us; we can supply about material of either bulls or females. Geo. Gier & Son, Waldemar R. R. No. 1, Ont. L.-D. Phone.

### Salem Shorthorns

—As ever in the front rank. Special offering: Ten young bulls, quality and price to suit any buyer.

J. A. WATT, Elora, Ont.

## Ayrshires & Yorkshires

for production and type. A few pigs of either sex ready to ship.  
ALEX HUME & COMPANY, CAMPBELLFORD, R. R. No. 3.



### P. D. McARTHUR'S AYRSHIRES

In official record, high testing Ayrshires, that have won scores of prizes, I can surely supply your wants, over 50 to select from. Young bulls of superb breeding on record producing lines. Also the 3-year-old stock bull, Imp. Whitehall Freetrader.  
P. D. McARTHUR NORTH GEORGETOWN, QUE.

**Dunganon Ayrshires** For high-class Ayrshires, write us or come and see them. We can sell matured cows, heifers, heifer calves, all bull calves are sold. Prices right. L.-D. Phone.  
W. H. FURBER, COBURG, ONT.

**High-class Ayrshires**—If you are wanting a richly bred young bull out of a 50-lbs-a-day and over cow, imported or Canadian-bred dam or sire, write me. Females all ages. Prices are easy.  
D. A. MACFARLANE, Kelso, Ont.