Fourth Annual Farm Machinery Magazine Number

VOL. XXXI.

NUMBER 23

## RURALHOME

PETERBORO, ONT.

JUNE 6

1912.



IT IS NOT WHAT IT COSTS BUT WHAT IT WILL DO THAT COUNTS

The dispatch with which we perform our various farm operations determines largely our financial success. For instance: We lose each year \$20 on every acre of our fields not tile drained. We cannot afford therefore to extend our tiling operations over several years; a ditching machine will cover the whole farm in a few days. The cost and time of cultivating the corn field is cut in two by the use of the two row cultivator. But in no case is expediency of greater value than in the haying season when, between showers, we must harvest a large careage in a

Iew days when the feed value of the crop is greatest. It is not the first cost of the modern implement that we should consider, but its future value as a labor and time saver.

—Photo taken by an editor of Parm and Dalry on J. O. Bale's farm, York Co., Ont

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You can be free from the trouble and expense of careless hired help.

You can increase your income, since you can milk a larger herd with less labor and expense By using a

### B-L-K Mechanical Milker



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Call and see one of these B-L-K Milking Machines in actual operation

Costs \$287.90 for Two-Machine Outfit

Ask us to send you a statement of the saving which can be effected with

our Milker in dairies of 24, 50 and 100 cows.

#### A"Great Money Saver for Milkmen

A B-L-K Milker user who has been milking a herd of 100 cows continuously since early in 1908, and who is making a high grade of sanitary milk, has furnished us with a detailed statement of the actual cost of machine drawn milk as compared with a hand drawn product in the same dairy.

He is taking great pains in the care of the milk and the way the cows are handled, but he is Milking 100 Cows in Two Hours

with six machines, operated by two men and a third toccarry the milk, and effects an

Actual Saving of \$1,568.00 a year

He makes this saving with a B-L-K equipment which cost him complete \$822.25.

We invite you to write us for full particulars and estimates of cost for outfit suited to your nee s

### D. Derbyshire &

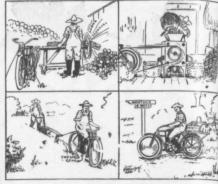
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**UP-TO-DATE FARMING** 

-Courtesy, "Motor Cyclin

#### Satisfied Farmer Auto Owner

S. A. Thompson, Northumberland Co., Ont

I consider the auto of more use to us farmers than to any other class of men; even though we have to keep horses as well. With the auto I can horses as well. With the auto I can do a day's work and then go to town eight or ten miles away. Formerly, even though I kept a good driver, I would loose half of a day at least go-ing to town. And time is money for

the farmer The auto owning farmer can also take his family on a holiday trip 20. 30, or 40 miles away, stay the day, and be at home to do his chores; som thing every farmer should be around to attend to. If we had to drive a horse on such a pleasure trip, especially on a hot day, it is likely we would stay at home. And who needs a holistay at home. day any more than we farmers?

Two or three weeks ago I enquired on the 'phone 20 minutes to seven o'clock and found out that I had some fruit trees just arrived at the station six miles away. I went for them and was home again at eight o'clock, saving at least half a day, and had my trees in a better condition than had I brought them on a wagon

seen more of the country around us since I have had my car (September, 1909) than I did in the last 10 years.

#### To Calculate Power Needed

Six horsepower will drive a grain eparator and thresh 2,500 bushels of oats in 10 hours.

Three horse power furnishes all ower needed to make 5,000 pounds of milk into cheese in one day.

Six horse power will run a feed mill grinding 20 bushels of corn an Five horse power grinds 25 to 40 bushels of feed, or 10 to 12 bushels of

ar corn an hour. Seven horse power drives an 18-inch separator, burr mill and corn cob crusher and corn sheller, grinding from 12 to 15 bushels of good fine

meal.
Six horse power runs a heavy apple grater, grinding and pressing 200 to 250 bushels of apples an hour.
Five horse power will drive a 30-inch circular saw, sawing from 50 to 75 cords of stove wood from hard oak in 10 hours.

Six horse power saws all the wood four men can pile in cords.
Twelve horse power will drive a
50-inch circular saw, sawing 4,000

feet of oak or 5,000 feet of poplari

Ten horse power will run a 15-isi cutter and blower, and elevate a ensilage into a silo 30 feet high at h rate of seven tons an hour.

One horse power will pump water from a well of ordinary depth in mile cient quantity to supply an ording farm-house and all the buildings vi water for all the ordinary uses

#### Couldn't Run a Wheel Barrow

By Peter McArthur

There are now so many imple in use for various kinds of farm we that a farmer needs to be somethin of a mechanic. Only in that way on he get the best results. Some farmer can take twice as much work others out of their binders and pla others out of their binders and put ers and drills, simply because the know how to run them proper Others are so dense that they can me a good machine to pieces in a year.
These are the sort of men who just the scorn of the Irish construction. boss who was approached by one his shovel men.

his shovel men.
"I'd like to give up shoveling said the applicant. "Can't you po me a job with a wheelbarrow?"
"What?" asked the boss, som fully. "You want to run a wheels row, do you? Now, what the drile was hore, about menious?"

you know about machinery?" are many men trying to run a binders and similar implement are really not qualified to run a wh

#### To Prevent Tools From Rustin

Any steel tool will rust if exposely damp air, yet I found that tools at lected to the following treatment of ery three months will not rust use octually thrown on the ground or sposed to hard rain.

Take two parts each of graph and tallow and one part gum as phor; melt together, and if not a enough to form a stiff paste, add as enough to form a stiff paste, add a tallow or lard. Remove all rust for the steel surface, wipe dry, and ap the paste. Let it remain on far hours, then rub dry. Unless the is needed, even longer than one of will be still better for the tool is covered with the preparation.

The above preparation has the de of a coating of oil though every tige has apparently been removed months,-H. H. F.

Renew your subscription now.

To St

EXTR

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To every own winning a fit original Mo

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The best

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Name of your f

THE MOLAS

L. C. PRIME

## To Stock Breeders

ANNOUNCEMENT OF

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### \$25.00 IN CANADIAN GO

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STOCKERS can be fattened quicker on Molassine Meal than anything . It aids and digests their other foods and keeps them free from worms. PIGS will be ready for the market ten days to three weeks carlier when fed on Molassine Meal than when fed on any other food.

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MOLASSINE MEAL is put up in 100-lb. bags. Order from your nearest design but be sure and get the genuine. Be sure that the trade mark is on the bag, as above.

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An engine that carries its own line shaft, pulleys, belt tightener and hangers. The Gilson 60 Speed Engine is a complete power plant 60 Speed Engine is a complete power plant in itself. You can haul engine anywhere, attach it and get just the speed desired—the only engine of lig. kind made. Gives 100 per can see sensitive of the second like sixty—has sixty speeds. 1 H. H. P., also 3 H. P. and 6 H. P. Engine up to 27 H. P. WRIYE TODAY. Write at once for illustrance with full information. Age

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Springbank Butter Boy, 14 months; dam is Queen's Butter Girl. Sweepstakes cow at Ottawa Driry Test and record of over 2d lbs butter in 7 days. Sired by Wopke Panna. Reading H. G. Bendeds herd, Woodtock, Ont., who is consigning to the June 12 sale four females in calf to this buil.

- Photo by an editor of Farm and Dairy.



Just an easy handful of

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The Public

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## Last Call

### For the Greatest Sale of the Season

Held under the auspices of the District of Beauharnois Live Stock Breeders' Association, at

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20 CLYDESDALES The Pick of Beauharnois and the Pride of Canada

This will be our FIRST ANNUAL SALE It will be held in connection with the

## Annual Spring Show



June 12th, 13th



Our Spring Show is the pride of our district. Come to it and see the best live stock that the breeders of our famous district have imported and bred.

Breeders from a distance will find this a most favorable opportunity to visit our far-famed district, and at the sale, on the last day of the show, get, at their own prices, choice of this live stock-the best in the di-trict, better than can be had elsewhere.

NEIL SANGSTER, President J. P. CAVERS, Chairman Sale Committee ANDREW PHILLIPS, Auctioneer

#### J. C. BRYSON, Sec. - Treas. ORMSTOWN, QUE.

Don't Fall to write the Secretary for a Catalogue 

What I Think of the Vacuum Cleaner

M. Ethel Nixon, Brant Co., Ont. I have learned by experience that a vacuum cleaner is absolutely neces-

sary in the home. Last year at spring house-cleaning we did not have one of our own, and well I remember how there was a mad rush to get all the rooms in readiness for the man with the vacuum cleaner to come and do every rug and carpet in the whole house in one day; as he was so rushed that was all the time he could grant us.

This year we have one of our own a "King Edward"-manufactured by the Geo. H. King Co. of Woodstock,

and there is no hurry to do things up in one day, as per usual, but we take our time and do it thoroughly.

USE IT EVERY LITTLE WHILE

We use our cleaner about once in three or four weeks on the carpets in the living rooms, and thus keep them free from dust. I have seen a good many vacuum cleaners, but think ours doing excellent work—and it sure 'lieks' up the dust in a most amaz-ing style—it is the neatest little rig of any I have seen. The box is so nicely finished that one does not mind having it occupy a corner of the liv-ing room with the attachments stored away in a near-by closet where handy. We have several attachments for ours and where one nozzle fails to pick up the scraps another will. For instance, when I am running the dust nozzle and come to a bit of something that has been dropped on the carpet, just a simple twist of the wrist removes the dust nozzle and slips on a small square one, which I carry in a big pocket of my apron when using the vacuum cleaner. One nozzle fitted vacuum cleaner. One nozzle fitted with rubber we find so convenient for with rubber we find so convenient for cleaning furniture, another fitted with felt saves stooping when cleaning pol-sished floors and margins, and still an-other may be alipped on for going into corners and around heavy furni-ture, such as one does not care to lift or move very often.



I have heard people say that vacuum cleaners were very hard on carpets, especially those with a high pile, but I can prove by experience that they will improve the appearance of a carpet. An Axminster car-pet in our home has a very high pile, and on which we at first wondered!



A Needed Farm Home Labor Saver

The vacuum cleaner gets all the to and gets is quickly and easily, and he carpets, hangings and upholstery da and sanitary. Photo taken by an eli-of Farm and Dairy and showing a vacua cleaner in use in the farm home of E | Nixon, Brant Co., Ont.

whether or not to use the vacan cleaner, but decided to give it at ma and it came through the cleaning as beautifully, the nap standing a straight and clean looking as vis

Were I to say more in favor of the vacuum cleaner it would be the "We wouldn't part with our lime vacuum cleaner for a farm!"

Do not potter, but work when me work and rest when you rest. In work away and play when you jar Do not fret, do not worre, and do nurse troubles. This is such a penicious habit, and one that win much evil to us and ours in the should-be-happy world.

I am cutting out several other far papers to take Farm and Dairy, at think it is the only paper that is taking up the farmers' interests as farm paper should.—Walter Me farm paper should.-Lellan, Perth Co., Ont.



Issued

Fach Week

Vol. XXXI.

Electric Power has su

**EXPER** 

OTH experience lished the conclu dairy farming, just have all its b

power and its judici he successful organ average farm. Elin far as possible, and aved but the result to established is of i ing with such a nerv elding dairy cow. link between big yie

are possible at one the bulk of the dr who follow other me We take "farm p

cal devices for the med to advantage ontario dairy farm. any assertions we wi experience of years from that which ha observation of the w

EXPERIENCE V We at Dunrobin tric energy for all half. It is procure ompany, and at n have found it most A 15 horse power n slees, grinds from 2. an hour, cuts the s the root pulper. Si ing and run the m throughout our b switched on or off a ing of safety, are a be appreciated when of the Hydro Electa cally electrify Old greatest boons that at our disposal.

For those who h electrical improvement engine as a safe ar shtaining power for eve that on dairy seres, keeping from of a gasoline engine longer a luxury but

MAKE With the engine ocation, which conf insurance companies

This is one of a s Gann has written for management on Dunry farm in District No.



"MERCENA SCHUILING," dam of "Prince Abbekerk Mercena," the four-year stock buil of A. E. Huiet, Norwich, Ont., to be sold in the consistment side of Morter Dist. Robitstin Breeders' Club to be held in Woodstock on June 1980. The Control Dist. Robitstin Breeders' Club to be held in Woodstock on June 1980. In great a 1965, proxes of age. The best judges of Robitstins invariably present one of the very finest cover in Canada. She comes from a splended line of costry. Her dam sold for \$1,500 cash to Fred Field, Brockton, Mass. Secure as a longue from Geo. Ries, Tillsonburg, Ont., and attend this asia, which present be one of the very best ever held in Photo by an editor of Farm and list.

Only \$1.00

Vol. XXXI.

FOR WEEK ENDING JUNE 6, 1912.

No. 23

#### EXPERIENCE WITH FARM POWERS ON A PRIZE-WINNING FARM\*

R. E. Gunn, Ontario Co., Ont.

Bedric Power has supplanted all others in performing many operations on bir. Gunn's Farm. It also tells of his experience with Gasosine, Steam and Wind Power. Valuable practical Suggestions from a practical man.

DOTH experience and observation have established the conclusion to my satisfaction that dairy farming, to be conducted successfully, nust have all its branches harmonize. gower and its judicious use enters largely into the successful organizing of the work on the average farm. Eliminate manual drudgery as far as possible, and not only is time and money aved but the resultant pleasant frame of mind so established is of inestimable value when dealing with such a nervous animal as the good highielding dairy cow. In this way we establish the link between big yields and easy work; if these are possible at one and the same time surely the bulk of the drawbacks advanced by those who follow other methods of farming are nulli-

We take "farm power" to mean the mechanical devices for the saving of labor that can be used to advantage on an intensively operated Ostario dairy farm. While treating the subject any assertions we will make are drawn from the experience of years on Dunrobin Stock Farm, or from that which has come directly under the observation of the writer elsewhere.

#### EXPERIENCE WITH ELECTRIC POWER

We at Dunrobin Stock Farm have used electric energy for all purposes for a year and a half. It is procured from a small local power ompany, and at not too cheap a rate. We have found it most adaptable to farm purposes. A 15 horse power motor, costing \$260, fills the siloes, grinds from 2,000 to 3,000 pounds of grain an hour, cuts the straw and hay, and operates the root pulper. Smaller motors do the pumping and run the milking machine. The light throughout our buildings, which can switched on or off at will, giving withal a feeling of safety, are a convenience which can only be appreciated when enjoyed. The new policy of the Hydro Electric, which intends to practically electrify Old Ontario, will be one of the greatest boons that we farmers ever had placed at our disposal.

For those who have no chance to profit by electrical improvements, there is the gasoline engine as a safe and practically sure means of attaining power for farm operations. We believe that on dairy farms of from 100 to 200 sers, keeping from 15 to 50 cows, the installing of a gasoline engine or some such power is no larger a luxury but a necessity.

#### MAKE DRUDGERY RASY

With the engine in a well-considered central location, which conforms to the demands of the issurance companies, with very little shafting,

This is one of a series of three articles that Mr. Guan has written for us. telling of his methods of massgement on Dunrobin Stock Farm, the first prise tan in District No. 3 of the Interprovincial Farms

a few pulleys, and a little belting, it is possible to do a large number of the "drudgey" jobs of the farm. The cream separator, the gutting-box, root pulper, fanning mill, grain grinder, grinders, grinder, gri

One thing to be remembered when installing a gasoline engine is the fact that nearly all insurance companies have a joker in their policies that makes their protection to the user null and void if the installation of power is not according to their specifications. Look up your policies and see your agent; then send him a notice in writing that you are installing an engine and have his company give you permission to use the same. This will eventually save a lot of trouble.



Fruit Grewers Appreciate Up-to-date Machinery
Power sprayers are now used in every part of
Canada where fruit growing is conducted at all extent war and the state of the conduction of the co

Other powers in general use that we have had experience with are steam and wind. Steam cannot be used so generally as either of those powers mentioned nor as generally as wind power. It, however, has its place. In all cases the fuel and water supply enter into the considerations in operating. We had a steam outfit, but discarded it owing to the lack of economy in operating.

Wind power smacks too much of depending on the elements. Farming is at the mercy of the seasons to too great an extent as it is, without depending on the whim of the winds to do any amount of power work. We had a power mill, but after getting up at night a few times to do the grinding we relegated this power to its proper place, and now use it only for pumping water where we have storage tanks in the pasture to tide over the calm spells.

#### THE CREAM SEPARATOR DISCUSSED

A discussion of farm power would not be complete without a reference to the cream separator. This machine is one of the greatest savers of profits we have. While the separator is familiar on every dairy farm handling cream, still a bint or two may not be amiss. If the dairy is large enough to have a small boiler ror generating steam for washing purposes, then the separator that will give the least trouble is the steam turbine. Whatever the kind used, get one, two, or three sizes larger than needed and run it by power, and you will never be sorry you made the small additional outlay on the start.

A device that we use on Dunrobin Farm is a pump that delivers all the skim milk from the dairy room to the hog pen. A brass-lined steam pump taking about a quarter horse power to operate we installed in the dairy, and pipes (one inch galvanized) were laid under the frost to the hog-pen 500 or 600 feet away. This outfit has been in use for two years or more, and gives perfect satisfaction, saving its installation cost many times over. By a system of valves, atcam can be turned through the same pipe and food cooked in the hog-pen when required.

#### OTHER MONEY SAVERS

We have various other additional mechanical contrivances. We find that elevators and a system of spouts, however rough and ready, save a lot of work in handling chop. Litter carriers, where used in conjunction with an extra wagon, sleigh, or, in season, a manure spreader that can be left under the dumping place so that the manure may be drawn direct to the fields summer o. winter, are a very economical installation. We find on referring to our books that it has cost us in the past for the mere forking on to the wagon of the manure in the yard under old methods, over \$180 per annum. This does not cover spreading cost, but is the cost of unnecessary handling, and can be dispensed with under a system such as we suggest. A full system of carriers can be installed in any barn for around \$100, and usually for about half of this amount.

(Concluded on page 11)

#### Make Money by Reducing Expenses

J. H. Grisdale, Director, Dom. Exp. Farm, Ottawa In the last 12 years, by the introduction of large machinery, we have reduced the whole cost of farming operations at the Central Experimental Farm by nearly one-half. We have cut off at least 40 per cent, and at the same time we have increased the returns from these fields by 100 per cent.

The two-furrow plough will cut the cost of ploughing in half if we have the right kind of horses. A man with a single walking plough and two small horses can do only so much pleughin: in 2 day. Let us suppose it is 1.5 acres. I know that with three good heavy horses, such as every farmer ought to have, we can plow three acres with a two-furrow plow and it will cost only half

as much an acre. If plowing an acre with a single plow cost \$2 I believe that with a two-durrow plow it will cost only \$1. That is our experience at Ottawa. And if we use a steam plew or traction engine is is cheaper still, but I do not say that it is advisable for the ordi sary farmer to try that. We find we can plow the land for less than \$1 an acre by gasoline or steam. But every farmer ought to have a tvo-furrow plow.

IMPROVEMENTS IN THE DISK PARROW

When we get the land plowed the next thing is to disk harrow it. suppose every farmer has a disk harrow. It has undergone a revolution in its construction. The average disk harrow of 20 years ago was a little bit of a thing with 12 or 14 disks that joggled along on top of the ground and we thought it was doing fine work. The disk harrow we have to-day is as much superior to the common old disk harrow as the first disk harrow was to the stiff tooth harrow of 20 years ago. We have disk harrows to-day that will cut the cost of cultivation in half. We have large disk harrows for three horses and four horses.

It costs us to prepare the land ready for the seeder 90 cents an acre with a small disk harrow, 70

cents an acre for the three-horse disk harrow and 45 cents an acre with the big disk harrow, double cutaway. The large harrow costs a very little more than the common disk harrow. If there are holes or stony portions it will miss little spots, but the double cutaway disk harrow works satisfacicrily and will do the work in half the time that a single disk harrow will, and it will do a better inch.

#### EFFICIENCY JUST ONE-HALF

How many times have we seen a farmer walking behind an eight or 10-foot harrow and a good team in front when he might as well have been walking behind à 20-foot one. There is not even the excuse of uneven ground because the harrow undulates. Of course that is objectionable in a small field.

Then again we should use big harvesting implements as well as big seeding implements. Up to three years ago we used at Ottawa a 12-point marker for the seeder. Three years ago we introduced the 20-point marker that does just about twice as much as the 12-point. We used to be able to sow 10 acres with one man and two horses; now we sow 20 acres with one man and three horses and do the job just as well.

Now don't these look like big figures? They

are startling. But any of us can apply them on our own farms to-day. If our farms bring in \$1,000 is it not worth while considering changes, which, by a gradual introduction, will cost practically nothing, can bring the income up to \$1,000 or \$1,000, and do the work at less cost. These are considerations which are worth every farmer's attentions.

#### My Favorite Implement

T. Baker, Durham Co., Ont.

There are many farm implements that commend themselves to my admiration, but of all up-to-date farm machinery the seed drill is one of the most useful. time and labor-saving implements we have. When the writer was nine or 10 years old, which is nearly 50 years ago now, as soon as



Deep Plowing Calls for Great Power and Improved Implements

Our farmers are getting away from the idea that shallow plowing is desirable on all solis. We realise that on certain soils deep plowing that increases the space available for root growth and enables the soil to retain a maximum amount of moisture, is better than cutting a thin furrow. The disk plow and traction engine as here illustrated makes very deep plowing easily possible.

sowing started he was compelled to quit school and follow the harrows. Some land at that time was single plowed, some plowed light with the gang plow and for much of it a heavy pair of harrows was used before seeding. Then the grain was sown by hand. I followed with the harrows. If grass seed was sown the men sowed that the opposite way from the grain. I again followed with the harrows.

I have sown many hundreds of acres of grain since with an up-to-date seed drill; cultivating and sowing the grain and grass seeds with once going over the ground, one man doing as much and better work in one day than one man could do in three days in the old way.

#### AIDS IN EARLY SEEDING

It is an incontrovertible fact that the sooner grain and seeds are sown after land is ready, the more sure we are of a good stand and a good crop. The seed drill enables us to finish seeding much sconer than the old way. This is a great pccuniary advantage as we get a better crop, besides having more time to devote to other pressing work.

A seed drill can be used for many purposes besides sowing grain. With the spring teeth it (Continued on page 14)

#### Conveniences in My Stable\*

S. A. Northcott, Ontario Co., Out.

It is prefitable from a financial stand out, by ter for the stock, and a great deal easier and sais, factory for us farmers who look after stock to have modern conveniences in our stables. Fee carriers, litter carriers, water systems from whis atock can get their supply at will, and ement floors, are things that can be added to any staly at a comparatively small outlay; especially if the work is done in winter or alack time.

The cost of these conveniences will depend a good deal on the layout of the buildings. It is person is building a new barn provision should be made for modern conveniences and the state arranged to be convenient. I observe, however, that buildings built some years ago, although

substantial, were not as a rule built with an eye to convenience. I have had to deal with one of these

Larns.

JUST WHERE IT IS WAYING
I have rearranged my barn and
stable so that feed and straw cas
be put down where it is handy use in the stable. I also have;
meal bin (capacity 150 bushels) is
a convenient place in the stable,
into which the meal runs by
gravity from the grinder in the
granary above.

granary above.
Ensilage, out feed, roots, etc.
are all conveyed from the feed ron
at the end of the stable to the soz
by means of a feed carrier of u
own manufacture. Those on the
market were far too small to sei
my requirements, and with the use
I have one person can feed a larg
number of cattle in a short time.
This carrier, including time for
making at \$2 a dny, coat \$8. Ib
track, which is steel, cost eight
cents a foot, including hangen.
DOESN'T RUNDIG A WHELLBARNEY

I have a Beatty Bros. litte carrier and track all through the stables, box-stalls, and pig ps. The manure is dumped direct free the carrier on to sleighs, trush or spreader, taken direct to the field and spread. In cold weather load is kept in a sled. It is sled. It is

other times it is outside and the carrier is ru out on a swing pole. This carrier adds enjoyment to a part of the chores that otherwise is dresied, especially when a wheel barrow has to be run through snow banks or mud.

The floors in my stables were at first pave with cobble stone. It was impossible to make them absolutely clean. I have had these floor all covered with cement. Cleaning the stables is now an easy matter.

These improvements I have mentioned add a great deal to the conveniences of the stable. Bit none of them are equal to a complete water system. I use both well and cistern water. The power windmill on the barn pumps the water from the barn well into an elevated tank in the bar, and the pumping windmill at the house pumps the water from the house well into the house tail or to the barn elevated tank as desired.

I have galvanized basins Letween each pair of cattle. The basins are kept nearly full by means of a float which regulates the inlet valve in the feed box. The feed box receives its flow from the (Continued on page 14)

\*this is one of the series of articles that Mr. Nort cott will write as required of him by the rules of 0 Interprovincial Prise Farms Competition conducted Farm and Dairy in which he was a successful comp My First Sea

R. A. Penhal We bought our ma est of June. It is ed it as our busine travelling, up to the iles, with a total cas We always drove the when we wanted it cle greelves. We had suble in learning rive. After the this time out we felt able handle the car with air degree of prof ney and took all our instructions fre the book that car

with the machine.

Frequently when t

ams were busy on t

arm we used our c

to deliver cream a milk to the city a keep our stock suppli with chop and br from the mill. 0 ar is not well ada; ed for that kind work, but by exerc ing a little care we slong very nicely an with the team on the portant to keep the getting very loath t ransportation when he auto into requisit s are we enabled to We have a dairy f of sufficient help we o be at home to h with the aid of the our friends and enjo

requently make roun

or two occasions 56 r

to our dairy work.

ation is available to

give our auto credit

The Pr

I used to think the repairs for our imposeer robbery, if we time element that end the broken parts. For bors broke a cog when the wheel arrivents. He came ove after we had talked down and went hom

Here is the way vent to the agent a urally, the agent di was a part of the sp To get it for my ne in Hamilton, Ont., 5 cents. When the had to be taken for that repair, wrap it man; then there wa from Hamilton to agent had to take neighbor on the pl take a few minutes books, and then th my neighbor waster

charging 75 cents.

Even in the small keeps in stock ther

(5)

#### My First Season With an Auto

R. A. Penhale, Elgin Co., Ont.
we bount our machine last year about the
jet of June. It is a five-passenger car. We
sed it as our business and pleasure demanded,
urelling. up to the present time, about 2,700
als, with a total cash outlay of \$35 for upkeep.
We always drove the car ourselves, cleaned it
where we wanted it cleaned and polished the brass

she we wanted it clear cursives. We had no troble in learning to drive. After the third time out we felt able to ladde the car with a fair degree of proficiest and took all of our instructions from the book that came with the machine.

Frequently when the teams were busy on the teams were busy on the teams were ded our car to deliver cream and milk to the city and beep our stock supplied with chop and bran from the mill. Our ris not well adapted for that kind of sork, but by exercisa-

ing a little care we get long very nicely and saved many a day's work with the team on the farm when it was very important to keep the horses at work. We are pting very loath to take any other means of trasportation when it is at all possible to call the suto into requisition, so pleasantly and quickly are we enabled to move along.

We have a dairy farm, and on account of lack of sifficient help we are almost always required to be at home to help with the milking. But with the aid of the auto we are enabled to visit or friends and enjoy the social side of life. We frequestly make round trips of 20, 30 and on one of two occasions 56 miles, and get home to attend to our dairy work. No other means of transportation is available to us for such purposes. We give our auto credit for many pleasant outlings.

#### The Price of Repairs

J. Malcolm, St. John Co., N. B.

I used to think the price we farmers pay for our implements an outrage. It is sper robbery, if we do not stop to consider the time element that enters into the replacement of the broken parts. For instance, one of my neighbors broke a cog wheel on his new manure spreader last fall. It looked like a 10 cent job, but when the wheel arrived the agent charged him 76 cents. He came over to me to ventilate his rage. After we had talked the matter over he calmed down and went home satisfied.

Here is the way we figured it out: First, he went to the agent and asked for the wheel. Naturally, the agent did not have it in stock, as it was a part of the spreader that very seldom broke, To get it for my neighbor in time the head firm in Hamilton, Ont., were telegraphed. There was 5 cents. When the telegram was received a man and to be taken for a few minutes at least to get that repair, wrap it up and send it to the express man; then there was the expressage all the way from Hamilton to St. John N H Then the agent had to take a few minus up my neighbor on the phone, his line had to take a few minutes to make a proper entry in the books, and then there was the agent's time that my neighbor wasted in "calling him down," for charging 75 cents.

Even in the small repairs that the agent always keeps in stock there is an enormous loss. For in-

stance, every time the style of a machine changes, and that happens frequently in this progressive age, the immense stock of repairs held in every part of the country represents almost a total loss. And then no one can tell with certainty just what repairs will be needed in a season. A great quantity may be held in stock that prove to be not needed. Viewed in this light it is easily seen that our manufacturers are not trying to work a "get rich quick" game in the matter of repairs



The Auto is Finding a Place in our Farm Economy

Time was when the automobile was considered a most expensive luxury for the very rich. Although the auto is still an expensive machine, it is now being put to economic use. Auto trucks are common on city streets. Mr. T. L. Dunkin, an Oxford Co., Ont., dairyman, is making good use of the auto on his farm.

—Photo by an editor of Farm and Dairy.

for farm implements.

ARE REPAIRS ECONOMICAL?

Does it not pay to carry the repair idea too far anyway? I have seen men, who thought they were economical, working with machinery that was mostly repairs. I have seen that complicated mechanism, the binder, looking like thired man's overalls—mostly patches. For my own part, I prefer to sell the old machiner at the best price I can get when repairs become too frequent and buy a new one.

Water Power Utilized.—I have made use of a natural water power on my farm for performing many farm operations. A dam made of logs and faced with stone makes a lake one and a half miles long and gives me a good supply of water with a

#### Why Use the Traction Ditcher?

H. C. Nizon, Brant Co., Ont.

The question that is bothering the progressive farmer to-day is not, Does it pay to underdrain, but rather, How can I get underdraining done at all? It is difficult to hire any kind or men to dig ditches, but more difficult still to find one well enough informed to dig a ditch to a grade and conscientious enough to do it if he deas know how.

But in the traction ditcher we find an answer to these problems. This machine digs the exact grade required, leaves a truer and more perfect bottom to the ditch than can be secured by hand work, and does the work quickly, doing away with all the tediousness and much of the unpleasantness of ditching.

#### GAROLINE OR STRAM POWER, WHICH?

Traction ditchers are of two kinds-steam power and gasoline power. The gasoline is much the more popular of the two powers. It is cleaner, quicker to start, and when stopped the gasoline can be turned off and no fuel is lost. Steam, on the other hand, must often be kept up for half a day in case of a small break, so that everything will be in readiness for a start as soon as the break is repaired. Also, the steam engine requires a fireman, who is not needed with the gasoline ditcher. The power varies all the way from the little five horse up to the big machines for sewer ditching, digging a maximum depth of 12 to 14 feet. Probably the best size for farm underdraining is a 15 horse power. A machine of this power will dig a little over six feet deep.

As shown by the accompanying cut, the digging work is done by a large power wheel from the engine. This wheel has buckets with cutting flanges. The earth is torn loose by the flanges, carried up in the buckets, and falls on the carrier table, which dumps it on the left side of the ditch. Instead of round wheels like a threshing engine, the ditcher has long travelling apron wheels, so that the machine does not drop into small irregularities of the ground. To dig to grade, the grade stakes are set ahead of the machine with the cross heads at the required grade, and the operator keeps the sight bar on

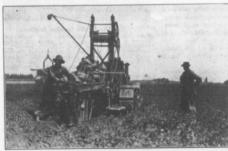
the machine in line with these cross heads, which gives a uniform grade to the ditch bottom whether he is going over cradle knolls or level ground.

No ditching machines of this traction type are made in Canada. Still we have to pay a high duty on them, which makes them very expensive. A number of farmers whose land ne ed a underdraining can cooperate in the purchase of a machine, but more often one man buys it and does work for the farmers, charging by the rod.

cost of MACHINE

DITCHING

ya for tile. The price per rod
varies from 45 cents upward, according to the
depth, nature of soil, etc., but chiefly, of course,
depends on the competition there is in ditching.
Mr. Thos. Nihan, Jas. Titterington and others
in the neighborhood of St. Catharines are having parts of their farms underdrained this summer at four and a half cents a foot, or 74 cents
a rod. This is the highest price of which I have
(Continued on page 17)



An Efficient Laborer that Never goes on Strike

Ditchng machines are now in use in several provinces and giving good satisfaction verywhere. Farmers can't afford not to tile drain their land. In many cares labor cannot be gotten at any price. The machine ditcher is proving an efficient substitute for hand work. In an adjoining article H. O. Niton, a drainage expert, gives more information regarding this method of preparing for tile.

10-foot fall. I have a water wheel three feet in diameter and with the power developed I grind grain, saw wood, run the grind stone and also manufacture shingles.—George Turnecliff, Hastings Co., Ont.

Some breeders are losing their heads over size in draft horses. Those of us who are wise will work for both size and quality.—C. W. Gurney, Brant Co., Ont. (6)

#### Young Farmer Endorses Meter Cycle

W. Duffield, Wellington Co., Ont.

We live five miles from the city of Guelph Recently I have clipped about three miles off that distance by buying a motor cycle.

My cycle is a five horse-power, and cost me



The Motor Cycle has Practical and Social Use

Mr.; Will puffield, Wellington Co., Ont., estimates that his motor cycle has brought Guelph, five miles that his motor cycle has brought Guelph, five miles distant, three miles nearer his farm. He believes that every young farmer can find good use for a motor cycle. —Phote by an editor of Farm and Dairy.

\$400. A four horse-power single cylinder, however, would have been satisfactory and would have cost only \$265. I find the motor cycle a very cheap means of travel. A gallon of gasoline costing 16 cents will carry me 90 miles. I have a 1,600 candle power acetylene lamp, and as I can sight a rig half a mile distant, travelling by night is as safe as travelling by day. The tires of my cycle have been on two years, and they look as good as ever. I estimate that my machine will last five or 10 years according to the care it gets; as long as a horse.

The uses to which the machine may be put are numerous. For instance, I went to Rockwood, four and a half miles distant, and paid my telephone account a few nights ago, and was back home in less than half an hour. I can go to Guelph in 7 minutes. In the rush of seeding last spring our seeder was in need of repairs. I got them in 20 minutes, and there was a very short delay. My cycle will carry 150 pounds of luggage, and can be made very convenient in marketing.

To look at a motor cycle coming down the road one would consider it very rough riding, but I find that it is not as bad as it looks. In fact, the machine rides comfortably. One can learn to run the machine in just a few minutes. I do not have to walk up hill either. My machine will climb a steep hill at a 15 mile an hour gait.

There is only one consideration that would induce me to part with my motor cycle-I might trade it for an automobile. When one gets used to doing things up quick with a motor cycle, a horse is altogether too slow.

#### New Machines vs. Repairs

L. C. Smith, Peel Co., Out.

I was recently talking with a farmer who has been using the same mower for 17 years. He was proud of his economy. But he didn't say anything about the bill for repairs. This man's farm is right near my own and I know something of what the repairs have cost him or that ord mower. It is not an uncommon thing in the rush of haying to see him stop his mowing machine in the middle of the field (a necessity) and start off to town for the repairs required before he could start his old machine again. I have seen him lose half a day in this manner. When we add to this the time lost by his horses and his men, getting repairs has cost him more than the repairs proper. I fully believe that the time and money spent for repairs on that old mower would have bought a new one six or eight years ago. This man's economy is losing him money.

Labor is too expensive now-a-days to monkey with repaired implements that are everlastingly getting out of order. When we send the hired man to the field, he must be going steadily if he is to make wages for himself and something for us too. He will not be going steadily if he has an old made over machine that is frequently out of order.

#### PROMPT WORK-BIGGER CROPS

One secret of getting good crops lies in performing the right operation at the right time. For instance, corn should be cultivated after every rain at least if we would conserve a maximum amount of moisture. Alfalfa and clover must be cut at just a certain stage of their growth to give us the best results. In the spring a few days difference in getting in the grain crops will make quite a few bushels difference in the total yield, To get this work done promptly we must have implements that are always ready, that is, newimplements

But the biggest loss that we sustain in holding to old machinery so long, is in working with outof-date implements. I will give an instance from



One Use for the Gaseline Engine

Mr. Isaac Holland, Oxford Co., Ont., whose farm secured a high standing in the Farms Competition conducted by Farm and Dairy last year, makes gazo-line power do a large amount of work for him both inside and out. In our Illustration is Mr. Holland's grain grinder that is run by a gasoline engine.

my own experience to show how great that loss may be. We have, or rather had, a single row riding corn cultivator that a few years ago we thought was pretty nearly the height of perfection in the line of corn cultivators; it cultivated

on both sides of the row. It certainly did good work.

Three years ago we had an opportunity of buying a modern cultivator, cultivating two rows complete at each round. The old cultivator was doing such good work that we still continued to cultivate our 10 acres of corn with it. Last spring, however, we did buy the two row machine. Here is the way we figure our loss from the old one:

Our 20 days' cultivating in the season would have been reduced to 10. Ten days saved is as good as \$30 to me in the labor of the men and team. That is we could have more than paid for the new machine in the savings of two years. We are not talking theory. We have used the machine one year, and know what it will do. The next time some new and improved farm implement is offered to us we will carefully calculate the cost, the saving, and then get it. No more delaying for us. It costs too much.

#### Highly Pleased with Milking Machine

R. E. Gunn, Ontario Co., Ont.

A consideration of farm power would not be complete without a reference to the labor-saving device, the milking machine; or termed more properly, the mechanical milker. If a saving of physical endeavor is an excuse for mechanical invention, then certainly has the mechanical milker a place among mechanical inventions, All things considered the machine that has removed the most worry and the most drudgery on our farm is certainly the milking machine. One of the hardest things to get, when hiring

men to work on the farm, is a conscientions milker. Even on our farm, where the milking is confined to a certain group of men, and they have no team work or other farm work to do that interferes with the milking, we find it next to impossible to secure men that will treat the cons as they should be treated. This then being the case we have the "average man" question to consider.

#### BETTER THAN HANDMILKING

Our experience proves that the milking machine used according to the manufacturer's instructions will give better results than the average man, especially when used with the average herd. High yielding cows unless started as heifers with the machine sometimes are so pervous that they will never take kindly to the mechanical milkers.

When Dunrobin Stock Farm changed from a general stock farm to a specialized dairy farm our greatest drawback was the labor question To meet this the mechanical milkers were introduced a year and a half ago. If the tarm had to fall back upon hand milkers entirely the present method of farming would most assuredly be changed and the dairy dispensed with.

From the experience gained from a close walch on respective costs, the margin of profit left after wages are paid to the average milker who thinks 10 or 12 cows are enough to handle is so small as to be hardly discernible. It is in the saving in the wage bill that the excuse for the mechanical milker lies and even though the cows' average yield is a little lower through their use. the ultimate saving from their use will more than pay for their installation inside two years in a large dairy.

We keep records of the production of the individual cows in our herd of over 100 (that is as easy with the machine milker as when milked by hand), and we have not noticed any decrease



Let the Gasoline Pump for You

In this illustration Mr. Isaac Holland's gasoline may be seen pumping in a new well. Why agree energy and contract backaches from a passable when a gasoline engine will do it so med sider? —Photo by an editor of Farm and Bairy.

in the average yield. Nor have we noticed any other detrimental effects.

Raising light horses of the best quality is almost a profession. We farmers, however, can all make a success with draft horses .- C. W. Gurney, Brant Co., Ont.

Hay making has

By the use of mo

Hay Mal W. F. Bell

one of the most an

Two Operation

combined tedder A combined tedder tion on the farm of farmer in District N Farm and Dairy in makes hay-making ec now accomplished

done by fewer men The scheme tha

is to cut as much h in in one day. C mower. When the top we go over it turn it over. Whe side delivery rake loose and open to these operations w bined tedder and s way the teeth act we have a side d has given us the g son we had one of harvested in the ( handled it nicely.

THE HAY And now for th hay is nicely cure operation. We ca ibly short time. quickly as it com use two horses, a steel track. To le a minimum amoun the bottom to thron

Readers will n hay by hand from ing operation. W article of food by coiled all of the h

We cannot lay in hay making, as We try to cut so catchy weather th modern hay mak tedder and loader can get a great o moon even after a

Increased E J. H. Grisdale, B.S.

We really have We can get over we pay enough. month, maybe he we wan not get a for a ligher figur population that g We find that t enough for the w we knew that we

(7)

#### Hay Making Made Easy W. F. Bell, Carleton Co., Ont.

Hay making has lost all of its terrors for us. By the use of modern hay making machinery one of the most arduous tasks on our farm is



Two Operations are Performed by This One Implement

A combined tedder and side-de-livery rake may be here seen in operation on the farm of W. F. Hell, Carleton County, Ontario, the first pries in the control of the control

now accomplished in less time, and the work is done by fewer men, than was formerly the case.

The scheme that we follow at Lakeside Farm s to cut as much hay at a time as can be gotten is in one day. Of course, we use a wide cut mower. When the hay is sufficiently wilted on top we go over it with the tedder to loosen and turn it over. When fairly well cured we use the side delivery rake, which leaves the hay lying loose and open to the air. We perform both of these operations with one implement—the combined tedder and side delivery rake. Moving one way the teeth act as a tender. Move a lever and se have a side delivery rake. This implement has given us the greatest satisfaction. Last season we had one of the heaviest crops of hay ever harvested in the Ottawa Valley, and this device handled it nicely.

#### THE HAY LOADER SAVES TIME

And now for the hay loader. As soon as the hay is nicely cured the loader is brought into operation. We can put on a load in an incred-hly short time. In fact, the load goes on as quickly as it comes off at the barn, where we use two horses, a double harpoon fork, and a steel track. To level the hay in the mow with a minimum amount of labor, we use a pole from the bottom to throw bundles from side to side.

Readers will note that we never handle our lay by hand from first to last in the hay making operation. We are able to cure as good an article of food by this method as we did when we coiled all of the hay.

We cannot lay down any hard and fast rule in hay making, as we are ruled by the weather. We try to cut some hay every day. It is in catchy weather that one appreciates most highly modern hay making meshinery, especially the teder and loader, as with these implements we can get a great deal of hay ready in an afterneen even after a heavy rain the night previous.

#### Increased Efficiency of Hired Help J.H. Grisdale, B.S.A., Director, Dom, Exp. Farms,

Ottawa

We really have difficulty in finding hired men, We can get over that. We can get hired men if se pay enough. If a man won't come for \$20 a month, maybe he will come for \$25 or \$30, and if we can not get a man for \$30, we can get them for a 'e)ter figure. We have a certain floating population that goes where wages are highest.

We find that the laboring man does not do enough for the wage we have to give him. If we knew that we could pay a man \$50 a month,

and he could earn \$100, we would hire him at once. The reason we do not hire our men at better wages is the fact that we do not know how to employ them to advantage. We put a hired man behind a scrawny old team with a single furrow

plow and put him into a stony field and he does about 50 cents worth of work during the day, whereas he should have been behind a good strong team with a two-furrow plow, and a good long furrow, and he would do \$10 worth a day.

It is not the hired man's fault that he does not earn his wages. It is the farmer's fault. Once we get our fields so large that we can use larger implements, then we will be able to make the hired man earn his money. And I do not know a hired man that is not better pleased at the end of the day if he finds he has plowed three acres than if he comes home and says he has only plowed one acre. He is just as keen to do the work as

we are, provided he has the tools and advantages that will permit him to do it.

A Minnesota man uses a three-ton truck for



Simple, Convenient and Efficient

This illustration gives a tolerably good idea of how Mr. Anderson, Prince Edward Co., Ont., has arranged his tread power to perform several operations—hus saving himself much hard labor. Notice that the cream separator is not run by hand on this farm.

hauling the produce of his 1,200 acre farm nearly 11 miles. He hauls butter, eggs, milk, cream,

and feed in to market and hauls out the supplies for the farm on his return trip. He declares his truck has taken the place of three teams and three men at the cost of keeping one man and one horse. He makes a run of 21 miles every day except Sunday, over sandy, hilly roads, hauling an average total load of 31/4 tons each way, and does it on six gallons of 11-cent gasoline and 34 of a gallon of 32cent lubricating oil every day. He pays his driver \$50 per month, but he takes the place of three \$30 men who formerly did the teaming .- Breeders Gazette.

The benefits derived from the use of a manure spreader should

be figured in the same way that we compute compound interest. The efficiency caused by using a spreader will increase the annual yield, thereby enabling the farmer to feed more stock which, in turn, will make more manure for the following season, and so on, until maximum efficiency is reached.—Prof. Paul Evans.

#### Why Not Grow Your Own Potatoes?

Seventy-five per cent. of the potatoes consumed in Toronto are grown outside of Ontario. Most of these imported potatoes come from the Maritime Provinces. Why is it that potatoes, a crop that yields higher returns in proportion to the fertility taken from the land than almost any other crop we can grow, are so neglected by Ontario farmers? Here and there we find a farmer who does go in for growing potatoes extensively and its making money at it. The most of our farmers are contented if they grew enough for their home use, and sometimes they do not do that.

The question of labor has been the most important factor militating against a larger in-terest in potato growing. Under the old method with which we are all acquainted-dropping potatoes by hand, digging them with a potato fork, and then the laborious operation of picking and bagging them-it is not to be wondered at that most of us preferred to make our money some easier way. This argument, however, does no' now apply. Machinery in potato growing, as in all other lines of farming, is taking the place of hand labor. The potato planter is now giving perfect satisfaction on hundreds of farms in Ontario and the more easterly provinces The furrow is made, the seed dropped and covered, all at one operation. It is just as easy as sowing grain with a seed drill. Even the seed may be cut by machinery.

When it comes to digging an progressive potato grower ever thinks of doing it by hand. The mechanical potato digger is much more economical. To such a degree of perfection has this machine been brought that it not only digs the potatoes, but on some machines devices are arranged whereby the potatoes are collected and dropped at intervals in piles of convenient size.

Several Ontario potato growers have told us that their net profit on potatoes sometimes runs up to \$100 an acre or even more. The labor difficulty being now overcome by machinery, there is no reason why Ontario farmers should not grow enough of this profitable crop to supply their own markets and have some for export as well.—"Ontario."

Cracks in the soil indicate that moisture has evaporated. A good illustration of this is a flower pot or can that has been set away with moist soil in it. When the soil dries it shrinks away



Potato Planting is now an Easier Job than it Used to be ropping potato seed by hand is a slow, tiresome operation. Mr. John Weldrick, York County, Ont. has found an easier way. In our illustration he may be seen demonstrating to his friends how easily the operation may be performed with an Aspinvall Potato Planter.

from the sides of the pot, leaving a space of perhaps a fourth of an inch. This is due to the soil shrinking as it dries. So when cracks are seen in the soil a big loss of moisture is going on, and that soil should be stirred. The surface should have been loosened up before the cracks formed.—Prof. W. C. Palmer.

Oswa'd Walker,

The cultivator is

p-to-date impleme get a better seed

ssible without it.

oothed cultivator

### SOME INNER SECRETS OF THE SUCCESS OF AN OLD RELIABLE MANUFACTURING BUSINESS

Points of Interest Gathered by an Editor of Farm and Dairy Recently as he Inspected the big Manufacturing Plant of Goold, Shapley & Muir Co., Ltd., Brantford, Ont. The Reason Explained as to the Popularity of Their Several Lines of Manufactures.

LTHOUGH there are upwards took over the Lusiness of the E. L. foreign laborers in the city of Brantford, Ont., not one of these foreigners is employed throughout the dropped. large manufacturing establishment of the Goold, Shapley & Muir Co. Re- Canada. They have built it up to cently one of the editors of Farm and great proportions. Dairy, while in Brantford, took occasion to inspect this large manufacturing plant, and during the course of making the inspection he remarked upon the superior class of workmen employed. We were not a little sur-



Outfit Oak Park Stock Farm, Paris, Ont.

Brantford" windmills are made fo wer and Pumping: 8 ft. to 20 ft. The in use the world over. All backe the Goold, Shapley & Muir Co. Guarar Brantford"

prised to get in answer the fact as above given.

In these facts Farm and Dairy readers may get a clue, as we did, on Water Boxes. which hangs some part of the reputation, which this company has won for their various lines of manufacture. The Goold, Shapley, Muir factory is located right in the uptown district. Because of their favorable location they naturally get first choice of the labor offering since the men do not

require to carry their dinner pails. This fact, backed by a long term of years during which steady employment has been given, makes for contented workmen and secures the best of labor, which is reflected in the quality and durability of Goold, Shapley, all Muir manufactures

A MOST REMARKABLE RECORD

This factory is the steadiest running concern in Brantford. It bas a most remarkable free for the asking.

down since 14 years ago, at which working in Brantford and are giving time the plant laid off their men for the best of satisfaction, and are two weeks while taking stock.

It is 20 years since this company as good to-day as when first built.

It Pays to Chop at Home

of 2,200 Armenians and other Goold and Co., which manufactured refrigerators, fanning mills and bee supplies. These lines have all been The present company started the steel windmill industry in WHAT THEY MAKE

Among their lines of manufacture are:

Galvanized Steel Pumping Windmills fitted with their Patent Roller and Ball Bearings as follows: "Imperial" 8, 10, 12, 14, 16 and 20 ft. 'Ideal'' 8, 10, 12 ft. "New Ideal" 8, 10. 12 ft.

Galvanized Steel Towers, girted every five feet and double braced, three and four posts, for Windmills, for Windmill and Tank in same tower, or Tanks only of any capacity, for Bells, Hose, Electric Lights, Etc. Also Heavy Towers for Power Mills.

Galvanized "New Ideal" Power Windmills, fitted with Patent Roller and Ball Bearings in 12, 13, 14, 15 and 16 ft. sizes.

Grain Grinders. "Maple Leaf" with 8, 10, 11, 13 and 15 in. buers. and Ideal Duplex Post Grinder.

Gas and Gasoline Engines, 1 1-2 to 50 h.p. Stationary, Mounted and Traction

Power Spraying Outfits.

Concrete Mixers. Two Sizes. Will compete with any other mixer made.

Iron Pumps. Lift and Force for Hand and Windrall use for all purposes, also lift and Force House Cistern Pumps.

Wood Tanks. All styles and sizes.

Brass Cylinders. All sizes, inside and outside fittings.

Water Pipe and Pipe Fittings. Plain or Galvanized. Etc., Etc.

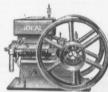
MORE INFORMATION FOR YOU Some of these lines are shown in illustration with comments herewith

in connection with this article. Attractive illustrated

catalogues covering any of these lines of manufacture in which you may be interested will be mailed to you free on request to the head office of this company at Brantford. Ont.

One point worth bearing in mind is that when you buy from Goold, Shapley & Muir Co. your goods are backed and guaranteed by this old Canadian company. The

first gas engines they record in that it has not been shut | manufactured 14 years ago are still claimed to be by those who own them



A Gasoline Engine That Endures

The first gas and gasoline engines made by the Goold, Shapley & Muir Co. 15 years ago are still in use. Made in sizes 1½ to 50 H.P. Stationary, or Skids or Trucks, the common of the state 1½ to 50 H.P. Stationary, or Skids or Trucks, the common of the state 1½ to 50 H.P. Stationary, or Skids or Trucks, the consumption of trucks are stated to the state of the state of

Many other makes of engines during A Farmer is Pleased with Auto this period of time have gone to the J. W. Jones, Northumberland Co., scrap heap.

BIG BUSINESS IN GAS ENGINES

This company is building up a wonderful business in gas engines. They live three miles from town, and find it have the largest gas engine plant in very handy for getting my require-

Engines Prolong Farmer's Life

"I believe that the gasoline engine has done more and will do more to prolong the life of the farmer than any device that ever has been placed on the market," declared a man interested in rural progress, as he was watching the energetic efforts of an engine that was operating some upto-date machinery on a Canadian farm

"The average farmer of to-day, if he is past 60, is pretty apt to be broken down and looks to be 10 years older than he really is. Why is it, do you ask? It is simply because this man has broken himself down physically through hard manual labor that is in a large measure now being done by the gasoline engine. These machines are being manufactured so cheaply and substantially that almost any farmer may own one. If he is not able to bear all the expense for this labor-saving device he may unite with some neighbor and own one jointly."

Ont

I find my automobile very useful, as well as a source of much pleasure. I



A Big Manufacturing Plant with a Most Remarkable and Enviable Record

This factory has run steadily 14 years without a stop other than for legal holiday lis several lines of manufacture have world-wide distribution. Some interesting feet and the sartiest manufacturing plant of the dood, Shapley & Mulr Co. Ltd. are given in the sarties and the sartiest manufacture you may have on request to their head office at Brantierod. It is not a superior to their head office at Brantierod.

Canada and they anticipate ere long | ments quickly, when necessary. I can that their plant will have to be ex- be to town and back with my auto tended to at least four times its present size. Remember these things ting a horse and rig ready to go. when you go to buy a gas engine.

In connection with their windmill manufacturing it should be generally known that these people have the largest galvanizing plant in Canada; it enables them to galvanize their mills and towers after they are completed, thus ensuring perfect galvanizing, joints and all, and no possibility of rusting .- C. C. N.



"Ideal" Automatic Batch Concrete Mixer Automatically measures the gravel, sand, stone, cement and water for each batch. Made in two sizes by the Goold, Shapley & Muir Co., Ltd., Brantford, Ont.

almost as quickly as I would be get-

I consider my auto a good investment. I would certainly not want to be without a car. There is no reason, now that automobiles are getting down to a reasonable price, why farmers should not have them as well as other business men. In fact, there is more reason why farmers should have them as the auto promotes sociability in a way that was not possible for farmers in the older days. As an instance,-I find it easy to visit my daughter, 25 miles away, in an hour and a quarter, where former'y it took me about three hours to drive. Many farmers in this locality are getting automobiles, and I look to see almost every well-to-do farmer have one

Of course, the stalls must be kept clean when the calves are stabled, or we would be providing a fine breeding place for the flies. With stables kept quite dark and good feed ing, we find that the calves make much more satisfactory progress than they would in the exposed pasture on the same feed.

adicate thistles providing the teet an obtain a very ed by properly w We prefer the d e consider it best ing in of the furr dutely necessi by turning in two low and then cr ith the cultivator



No. 1. Str

In the Western the stack on a bro can be gotten. not apply to the fi

sod furrow; that the disc. Land sh on spring sod pl Is the manure over? It certain er it a luxury. land we have ma her, 17 acres of t out with the slei

such a good mon



No. 2. Elevating The sweep rake t

No. 1 leaves i of the hoist, and mat one operation to This method of sta ient where great que be handled in a sh mum of labor.

that we took adv prefer the winter ot too deep. HOME MAD

A labor-saving man can build hi This implem pieces, three by feet long, set in wide end of the feet four inches plank running spiked to a vane

#### Some Cultivating Implements

Osica'd Walker, Perth Co., Ont. The cultivator is one of our most into date implements. It enables us get a better seed bed than would be to get a netter seed bed than would be possible without it. By using a wide-mostled cultivator we can thoroughly radicate thistles and other weeds, providing the teeth are sharp. We od by properly working this imple-

We prefer the disc harrow for sod; re consider it best suited for the filling in of the furrows. A disc is not absolutely necessary, now the plan and then crossing the furrows with the plow and then crossing the furrows with the cultivator a fairly level field

by ten-inch plank. This vane is also fastened to the front. A chain goes down through and under to the two-inch eroes plank, which a bolt goes through to hold the chain solid. A spring seat is attached. The driver's weight holds the puller solid between the rows, the driver getting off the seat at each end.

Of course, we use the hoe for topping. This operation requires care in order that too much of the root will not be cut away, or a few leaves be left on. We can top with a hoe and have no more waste than when a knife is used. This root puller throws two rows into one for drawing. By taking the rows alternately you can always load from both sides of the wagon.



No. 1. Stacking Made Easy. Bringing the Hay to the Hoist

In the Western States, where immense quantities of hay are stacked in the 56M, the device shown in the illustration is commonly used. The hay is brought to the stack on a broad sweep rake and elevated by horse power as seen in illus-

can be gotten. can be gotten. Or course, that does not apply to the filling in of the green sod furrow; that must be filled with the disc. Land should be well rolled

the disc. Land should be well rolled on spring sod plowing for working with either of these implements. Is the manure spreader a labor are? It certainly is. But I consider it a luxury. Of the 26 acres of land we have manured since December, 17 acres of that has been taken out with the sleigh. December was such a good month for the spreader



No. 2. Elevating the Hay to the Stack

The aweep rake to be seen in illustra-tion No. 1 leaves its load on the prongs of the hoist, and all the hay is elevated at one operation to the top of the stack. This method of stacking is very conven-ient where great quantities of hay must be hardled in a short time with a mini-

that we took advantage of it. But I prefer the winter drawing if snow is not too deep.

HOME MADE ROOT PULLER

#### Of course, that does | To Encourage Sheep Husbandry

R. H. Harding, Middlesex Co., Ont.
I will endeavor to let Farm and
Dairy readers, and especially L. A. It will be to the farm of the sioners, was discussed, and a commit-tee-composed of Lieutenant-Colonel McGrae, Guelph; Lieutenant-Colonel McEwen, Byron; and myself-was ap-pointed to take the matter up with the Hon. Martin Burrel, Dominion Minister of Agriculture, with the view of putting some of the recom-mendations into what we thought might be practical form. This Commission had a conference with the Minister, who expressed him-

with the Minister, who expressed him-self as in hearty accord with us, which he backed up with a grant of which he backed up with a grant of \$15,000 to be spent by this committee, subject to the approval of his Live Stock Department. It was further de-cided that it would not be possible to cover the whole Dominion this year, so the Maritime Provinces and British Chushkin core obsesse for the com-Columbia were chosen for the com-mencement of this work.

mencement of this work.

We plan to conduct an educational
campaign. It is expected that before
this letter reaches Farm and Darry
readers Colonel McCrae will be on his
way to British Columbia to join Dr.
Tolimie in touring that province and
finally locating places where sales of
sheep will be held later, while Colonel
McEwen, accompanied by C. M.
McRae of the Dominion Department,
will be on their way down to the soa Metkae of the Dominion Department, will be on their way down to the sea on a similar mission. To myself is allotted the task of purchasing 250 registered rams, and probably 1,000 grade owes, to be sold in the places selected by the committee in the pro-vinces above mentioned during Sep-tember and October next. With the healthy tone of the larnh and mutton NOME MADE ROOT PULLER.
A lalor-saving implement that any man can build himself is a root puller. This implement we made of two pieces. three by five inches and four let long, set in crutch shape. The wide end of the 'Q'' should be three let four inches wide. A two-inch plank running across the 'Q'' is plank pla

### When the Hay is Heavy

YOU NEED A MASSEY-HARRIS MOWER

Because it has ample power to cut the heaviest hay that grows.

### When the Hay is Light

YOU NEED A MASSEY-HARRIS MOWER

Because it will cut close and save all the hay.

ARGE, broad faced Drive Wheels with deep, traction lugs, give ample power, which is transmitted to the knife by means of powerful Gears, enclosed to keep out dirt and trash.

¶ Cutter Bar is free to follow uneven ground and has great range of tilt—it can be set to fairly shave the ground or to cut a long stuble, as desired. ¶ Lift Spring may be adjusted to carry as much or as little of the weight of cutter bar as conditions demand. ¶ Raised Ledger Plates give extra long cutting edges and the edges are serrated. ¶ No "flying start" required—knile begins to cut the instant the horses start. ¶ The easily operated Foot Lift enables the driver to quickly raise the Bar for passing obstructions.

### Massey-Harris Co., Limited

Head Offices : Toronto, Canada

Branches at: Montreal, Moncton, Winnipeg, Regina, Saskatoon Calgary, Edmonton



### The Oil You Need! For Your Separator



### TANDARD Hand Separator Oil

Never Gums, Never Rusts, Never Corrodes

Standard Hand Separator Oil feeds freely into the closest bearings and gives the best possible

It makes your separator last longer and do . better work as long as it lasts.

One gallon can all dealers, or write to

The Imperial Oil Co. Limited





### **Your Ultimate Choice**

You may not buy an Empire this year. You may decide that your present separator will do for another season. Like many other present owners of

# **Cream Separators**

you may even be persuaded to buy two or three other makes before you finally get to an Empire. But the Empire is the ultimate machine. No other will fully satisfy you so long as you know there is a better machine—an Empire—on the market.

Sooner or later you'll realize the truth of what we are telling you now. Perhaps you would realize it sooner if you were to read our booklet? Perhaps you would like the Empire to demonstrate its superiority to you in your own home? That will be the best proof of our statements. We are at your service. Let us furnish you with the proof of what we say. Mail us a card or a letter. You will receive a prompt and courteous reply.

The Empire Cream Separator Company of Canada, Limited

Makers of CONE and DISC separators.

WINNIPEG, TORONTO.

MONTREAL. SUSSEX.

Agents everywhere in Canada-Look for the Empire Sign.

### HORTICULTURE

Orchard and Garden Notes Has the asparagus bed been worth

Has the asparagus sed over while this year?
Good seeds are of vital importance to the gardener. Did you get them?
Keep the soil well cultivated about the trees and shrubs planted on the

Strawberries and grapes should be uncovered as soon as they start to

Put only first-class clean vegetables in the market. They are the only

kind that pay. Weeds are a lot easier to get rid of when small than when they begin to

crowd the plants.
Pick the blossoms from the new-set strawberry patch. Stronger plants will result, which will mean more fruit next year.

Keep the orchard and fruit plantation clean cultivated where possible; at least dig about the trees for a ra-dius of four feet.

Prune the blackberries as soon as blossom Shorten back branches where injury will not be done the blossoms.

Keep the cultivator going in the onion-field these days. Remember a plant's growth, means a reduction at harvest time

Let the boys and girls have a gar-den patch or a plot of ground of their own. A calf or a piece of land all their own, to do with as they like, will keep many a boy and girl contented home.

If spinach or onions are not growing rapidly, a little hen-manure or nitrate of soda may be applied broadcast just before a rain, or cultivated About 200 pounds of nitrate per acre is about right.

#### Control San Jose Scale by Spraying W. E. J. Edwards, B.S.A., Essex Co.

Ont.

The San Jose Scale being very bad in Essex county, the very best meth-ods must be employed to keep it in control. We have proven in several orchards that this pest can be entirely controlled, and almost exterminated by the proper use of the lime-sulphur mixture. We took over one orchard three years ago, that was so badly infected with scale that the owner was going to cut it down. Part of the trees were already dead and the fruit enwere already dead and the fruit en-tirely unsaleable. By proper spraying for two years the orchard was changed to the thriftiest-looking orchard in the vicinity. Scarcely any scale could be found on either the trees or the fruit, the latter being sold for a good figure.

It is very important that the trees sprayed thoroughly from the ground to the extreme tips from both sides. To properly reach the tops of large trees, it is necessary to spray from a tower. I know of one orchard that was sprayed with a hand outfit, no tower being used, the result being that the extreme tips were not covered. This spring I examined this or-chard closely and found the lower branches quite free from scale, while the top ones were very badly infected. The same orchard is now being sprayed by the power outfit shown in the illustration on page three of Farm and Dairy this week. This outfit has and Darry this week. Inis outnit has a high power, and the top branches are easily reached. Three lines of hose are being used on this outfit, the man in the tower spraying the

\*\* this method an orehard can be sprayed this method an orenard can be sprayed very quickly. We spray at a pressure of about 150 pounds. This sprayer is owned by the E. J. Mullin Co. of

Where the scale is bad, the mixture should be stronger than is ordinarily recommended. The home-mode con-centrated lime-sulphur is being used centrated lime-suppour is being used widely here; 112 pounds sulphur and 56 pounds of lime is boiled in 40 gal-lons of water for one hour. For spring spraying this is diluted one to five with water, and for Codling Moth di pounds arsenate of lead to 40 gallons of the mixture

#### Spraying trees in full Bloom

The Ontario Bee-keepers' Associa-tion desire to draw the attention of the public to the fact that a number of members suffer from persons spray-ing fruit trees in full bloom, their bees being killed from the poison in the spraying mixture. This practice is prohibited by an act of parliament assented to in 1892, the provisions of which are as follows:

No person in spraying or sprink-ling fruit trees during the period within which such trees are in full bloom, shall use or cause to be used any mixture containing PARIS GREEN or any other poisonous substance jurious to bees. (2.) Any person contravening the provisions of this Act. travening the provisions of this Act. shall on summary conviction thereof before a Justice of the Peace, be subject to a penalty of not less than \$1.00 or more than \$5.00, with or without costs of prosecution, and in case of fine or a fine and costs being awarded, and of the same not being, upon conviction, forthwith paid, the Justice may commit the offender to the com-mon gaol, there to be imprisoned for term not exceeding 30 days, unless the fine and costs are sooner paid

The best fruit growers consider spraying during the period of full bloom as a useless waste of material and harmful to the setting of the fruit out by both the Federal and Provincial Departments of Agriculture state dis-tinctly to spray apple orchards with tinctly to spray apple orchards with Bordeaux and Arsenites, or Lime Sul-phur and Arsenate of Lead: (1) lust as leaf buds are expanding; (2) lust before blossoms open; (3) Just after blossoms fall; (4) A later spraying if required.-Canadian Bee Journal.

#### The Dominion Fruit Crop

An excellent crop of apples in Can An excellent crop of apples in Can-ada this year is predicted in the fruit crop report recently gotten out by Mr. A. McNeil of the Dominion Fruit Division. There is little bud or twig killing in evidence and prospects are for a favorable showing of bloom. Pears share in the same good condi-

Extremely low temperatures in Jan-uary and February seriously injured the peach bloom and in certain orchards the trees have been injured. This is particularly true in Essex and Kent and in higher ground in the Niagara district. In British Columbia conditions have been favorable to peaches. Cherries have not suffered seriously from winter injury. Grapes have wintered fairly well.

The tent caterpillar is reported from Eastern Ontario, New Brunswick and parts of Quebec. Canker is reported parts of Quebec. Canker is reported as serious in many orchards. The report makes mention also of the large progress that has been made in orch ard cultivation, in spraying and in the formation of cooperative fruit as-

The Clematis Paniculata, Wild Cu-oumber, Morning Glory, Wild Grape and Virginia Creeper make excellent the man in the tower spraying the top, the men on the ground spraying the lower parts, one spraying the forward part, the other the back. By

\*\*\*\*\* POULT ............

Importance of

By 0. Grit takes the fowls; a liberal su able to them at eyster shell, coars

Fowls having will usually pick are deficient in coarse sand part materials for the



The Chie Chickens grow is not stirred freq is the hand wheel Lime is essent

egg shell. This giving the birds ground oyster she The health of dependent on good grit. Both crushed rock are and may be eas market

Preserv Prof. C. C. Bre Min

We have tried a methods of packi good results as w lowing different in 1. A mixture of glass to 20 parts results where the in the solution months; after th

what lacking in 2. A mixture of glass to 15 parts of results, some of they were 18 month 3. We have had packing eggs in a should be taken

These were all go ed for seven mont separated consider Two pound

slaked in a pail added. After mix the pail were put four gallons of wa stirred and left to stirred a second tin After that only t The eggs in well but were not and in cooking

We find that to

(11)

### Personanananananananan M

Importance of Grit for Poultry

By O. W. Dynes

Grit takes the place of teeth in fowls; a literal supply should be avail-able to them at all times. The grit may be in the form of crushed rock, oyster shell, coarse sand, broken glass,

Fowls having free summer range Fowls having tree summer range vill usually pick up sufficient for their needs on any ordinary soil. Soils that are deficient in small pebbles and carse sand particles, however, may not furnish enough of the needed materials for the flock.

results with packed eggs they must be from birds having no males run-ning with them. Also it is very im-portant, especially with the water-glass solution, to have the eggs stored in a cool cellàr. Earthenware jars make the best receptacies for packing the eggs, although good, clean butter kegs or lard pails give good satisfac-

#### Poultry Pointers

When the little chicks stand sleepwhen the little chicks stand sleep-ing with wings hanging, look for head lice. Pure lard rubbed on the head and neck will kill them. Destroy the rats. They will eat

your chicks

To kill rats, pound up glass and mix with corn meal. Rats are bad things around the chick quarters.



The Chicken Yard Needs Cultivation as well as the Garden

Chickens grow faster and are healthier on cultivated soil than on soil that not stirred frequently. A convenient implement for cultivating the chicken run is the hand wheel plow.

Lime is essential for forming the egg shell. This is best furnished by food, giving the birds constant access to

round oyster shell.

The health of the growing flock is the health of the growing flock is dependent on a plentiful supply of good grit. Both the oyster shell and crushed rock are commercial products and may be easily procured on the market

#### Preserving Eggs

Prof. C. C. Brown, University of Minnesota

We have tried a number of different

We have tried a number of different methods of packing eggs and so far have found nothing which gives such good results as waterglass. The following different methods were tried:

1. A mixture of one part of waterglass to 20 parts of water gave good results where the eggs were not kept in the solution longer than six months; after that they were somewhat lacking in flavor.

2. A mixture of one part of water.

2. A mixture of one part of water-glass to 15 parts water, gave excellent results, some of which we kept until they were 18 months old.

a. We have had very good results packing eggs in dry salt. Great care should be taken to cover them well. These were all good after being packed for seven months, though they had separated considerably.

4. Two pounds of fresh lime were

in a pail and a pint of salt After mixing, the contents of added. the pail were put in a tub containing four gallons of water. This was well stirred and left to settle. Then it was stirred ascond time and left to settle. Then it was stirred a second time and left to settle. After that only the clear liquid was poured over the eggs that were in a tub. The eggs in this solution kept well but were not so good in flavor and in cooking quality as solution No. 9 We find that to get the very best steps

Fresh, clear water is as essential as

It does not require expensive poul-

It does not require expensive pour try houses to raise poultry, but it does require a well arranged one. Don't force hens for eggs. Better a 50 per cent. yield that will hakch strong chicks than 100 per cent. that

Don't start in the poultry business with scrubs.

Keep improving. Never turn back. Don't give up. Keep trying.

A system around a poultry plant is just as essential as the feed the fowls Work for the future. One bad egg

is a thorn in your reputation.

High feeding and lack of exercise is the cause of many infertile eggs.

Keep your fowls busy. It prevents acquiring bad habits. To satisfy the craving for bulk food poultry eat litter, nest material, feathers, etc. This should be prevented vented

Scald the drinking and feeding vesscalding water.

#### Experience With Farm Power

(Continued from page 3)

For carrying feed all the feed hoppers I have seen are too small to be practicable. We use the litter carriers to convey the milk cans from stable to dairy, and find that a sav-ing. Our milking machine we would not be without. This machine is dealt with fully elsewhere in this issue. We have found that saving devices can be best thought out to suit each indivi-dual farm by the owner if he is at all mechanical, and as every farm has a kit of tools, or should have, it is not hard in the winter months to make many things that save innumerable 



BLADE READY A Cift for you

You will find it a pleasure to use this safety razor, and you will never dread shaving any more when you have this razor.

It is a postive delight to shave with this Gem Junior Safety Rasor. The whiskers come off without a pull, and in much less time than is required when the old-fashioned open rasor is used.

It certainly is great value and should last anyone for years.

This safety rator is as shown in the ill tration. It is highly mikel plated and polished. It thas seven genuine damaskeened feem Junior blades. It has a combination stropping and shaving the stropping and shaving the stropping and in unlocated the stropping and shaving the stropping and in the stropping of the stropping and shaving the stropping and in unlocated the stropping t

and This premium is proving very popular, and each Farm and Dairy reader who gets ome price highly, use for have something be will price highly, use for her price highly, use for her price highly, use for her price highly, and bairy every time he uses it, for placing this time saver, comfort and convenience within time saver, comfort and convenience within the saver comfort and convenience within the saver comfort and the saver the

FARM AND DAIRY, Peterboro, Ont.



"Somehow I never thought 1 would like a safety razor, but I got a Gem Junior in February as offered through Farm and Dairy in return for getting two subscribers to Farm and Dairy. I have used the razor three times a week now for over three months, and I tell you it's fine."-T. R. G., Middlesex Co., Ont

One of our editors was showing one of these razors to a friend the other day and he remarked: "Wel I declare, I do not see how you can afford to give such a valuable premium in return for only two new subscriptions to Farm and Dairy."

We have one of these Safety Rasor Outfits for you. It is just as described and as shown. We will send it to you postage paid and absolutely free in return for getting us only two new subscriptions to Farm and Dairy, each at only \$1.00 a year.

Will you get us two new subscrib-ers to Farm and Dairy and claim this premium razor? It is certain to please and delight you.



### A Holstein Top Notcher



#### Queen Korndyke Pleione

(Photo by an Editor of Farm and Dairy)

This helfer is one of the highest-priced cathic I ever had anything to do with. I helieve she will pay me well.

She is sired by PONTIAC KORNDYKE HENGERVELD, a bull having 12 A.R.O. daughters.

She is in call to PONTIAC KORNDYKE one of the greatest bulls of the breed. I am offered \$750 for her calf on it being a helfer.

The sire of this helfer sold for \$1,300.

Other than my recent importation of these most desirable Holsteins, of which this helfer is but one. I have in my stables 180 head of choice of which this helfer is but one. I have in my stables 180 head of choice good record stock.

Some young stuff, Calves, Bulls and helfers, I am offering for sale. They are priced very reasonable, and are the kind that will make you

Write me of your wants in Holstein cattle or come to my barns and take your choice.

THE MANOR FARM

Bedford Park, Ontario

GORDON S. GOODERHAM





### Buy a Deering Binder and **Avoid Waste**

THE Deering binder has proved itself master of the grain field. The Deering knotter, for three decades the mechanical wonder of the age, still twist is the wine into that ingenious knot which the human hand has never been able to equal. Deering harvesting and haying machines have established a world-wide standard. The the sear and every how the still the still the sear and every how of the day its click can be heard in some harvest field.

Deering multi-has a name the world over; it never

in some harvest field.

Deering quality has a name the world over; it never varies, but the machine itself is changed to suit the demands of different countries. The Deering New Ideal binder is made especially to do the work of Ontario and Eastern Canadian farmers. It is manufactured at Hamil-

Eastern Canadian farmers. It is manufactured at Hamilton, Ontario, within easy reach of all. Using a Deering binder means easy pulling for your horses, quick, light work on hilly fields, and good work even on rough ground. Your harvest troubles cease when you use a Deering binder. See the Deering local agent, and have him show you the good points of the harvest above you the good points of the harvest expenses and binder twine. Get catalogues from in, or, write the mearest branch house. nearest branch house

Eastern Canadian Branches International Harvester Company of America





## Holsteins 80-At Auction-80

Will be sold at Great Dispersion Sale of pure bred Holstein herd at Hill Cliff Stock Farm, Lot. 1, Con. 1, Dereham, 4 miles east of Salford, on C. P. R., and 4 miles east of Burgessville, on G. T. R., on

## Monday, June 10th, 1912 Sale to commence at 1 o'clock

These cattle are bred from the best of sires, such as Prince Albert De Kol, full brother of Lord Roberts De Kol, the sire of great producers; and Queen De Kol 2nd Teake, whose name indicates his splendid breeding.

The present herd header is Dutchland Sir Hengerveld Maplecroft, who is for sale. His sire has over 100 A. R. O. daughters and 30 proven sons. This bull was bred by Fred F. Fields, Brocton, Mass.

In this sale there are females ranging from 40 lbs. of milk a day for two-year-olds to 70 lbs. for aged cows. Among the cows is one 75% same blood as Helbon De Kol, 31.54 lbs. butter in 7 days. She is for sale, and several of her daughters from above great sires

These cattle have been bred for persistency in heavy milk flow, and for

Sale will be held rain or shine. All trains will be met, at above stations on day of sale. Lunch served to those from a distance. Catalogues now ready. Write for yours to

#### W. A. TACKELL, Proprietor Holbrook P. O., Ontario

This herd will positively be sold to the highest bidder NO RESERVE WHATEVER.

AUCTIONEERS:

Col. R. E. Haegar, Algonquin, Ill. Wm. Pullin, Woodstock, Ont. CLERK: W. H. Jones, Zenda

### A Labor Saving Farm Water

What's the use of doing by hand what can be done so much easier by power?" said Adam Alexander of Halton Co., Ont., to an editor of Farm and Dairy, who visited his farm this spring. Mr. Alexander has been pus-ting his precept into practice. Four-teen years ago he harnessed a good part of his stationary machinery to a water wheel and has been watching it work for him ever since.

Farm boys whose backs have often ached turning the root pulper would take real pleasure in seeing the way Mr. Alexander runs his pulper. He simply attaches a belt to the pulper, turns on the water power, and then watches the roots being pulped just as fast as one man can throw them as last as one man can throw the into the hopper. Other operations performed by this small water wheel are grinding the grain, cutting the

The power shaft is so arranged that only one piece of machiner need by For in since, if grinding grain from pulley (B), the shaft is disconnected from A) and (C). The grain grinder is directly be neath the granary, and the rain can be run directly from the bin to the hopper of the grinder.

NATURE PROVIDES THE POWER Mr. Alexander is peculiarly favored in that he has such cheap power. Just near his home is a mountain on which are never-failing springs. springs Mr. Alexander has laid a four inch pipe that develops the sower a the wheel, and also supplies water to the house and to the stock. There are 972 feet of piping. The drop is 150 972 feet of piping. The drop is 100 feet. The initial cost of installation. Mr. Alexander informed us, was \$200 for piping and \$85 for the wheel

June 6, 1912.

It Applies i

One of the mos

the cost of "runn

large expenditur chinery. The ne equipment of the

laboriously obtain coveted reaper of horse-rake, disc spreader, for inst often wear his o

Record made 1% day's fat 3.19 lbs.; year as 3-year-old; next year? Owned cow that P. D. Ed week for \$200.

stint his family deny himself And even where h tion where such s necessary, the cos repairs remains "counts" heavily net returns from One would imag equipment thus given a degree of



Jewel Aaltje

Four years old, 24 days, averaging 3.72 Posch Duchess, a laster and 586.67 lbs. mi and Hillview Farms

to the labor and stowed on its proceed this often happen more and more the lect are so numero tonishment. For instance, on

trip, a member of versity Farm, as a took note of the v be seen from his had been left in t

Power

In all the 14 years that he has used it he has only spent \$2.75 for repairs Root House W Fanning Mill or Fred Separator Cutter 18 Wall about 3 high

A Simple, Convenient and Space Saving Arrangement of Machinery

Grain

Grinde.

The diagram herewith shows how Mr. Adam Alexander, Halton Co., Ont., ha arranged his shafting so that many farm machines are performed by his water wheel without taking up too much space. For a fuller description of Mr. Ala-ander's plant read the article adjoining.

hay and straw, fanning the grain, the cream separator. The accompanying diagram will give an idea of how Mr. Alexander has arranged all of these machines in order that they may

be run by the one power.

A CONVENIENT ARRANGEMENT The wheel is located in the base ment of the Larn. A shaft runs along the ceiling above, on which are the oulleys that run the various machines. From the pulley (C) a belt runs to the root pulper. From (B) another belt runs through the floor to the fanning mill and the straw cutter. The small auxiliary shaft (D) from the wheel runs the cream separator. The main shaft extends out through the wall of the barn, and a pulley there (A) is connected with the circular saw. Mr. Alexander's water wheel will generate six to eight horse power, will saw eight cords of soft wood and and six cords of hard maple in a day.
To demonstrate to our editor just
what efficient work his wheel would do, Mr. Alexander started his saw and cut several pieces of hard maple eight or 10 inches in diameter at a

this for a new valve that has not yet been put in.

Water power such as Mr. Alexander has cannot be secured on every farm. but as Mr. Alexander pointed out to our editor, a gasoline engine can be established in the basement, and with a similar arrangement of shafting and machinery the same work could or done by power in this labor-saving manner on every farm in the country

MORE BACK SAVERS

The grindstone is turned from the small pulley that runs the root pulper. At harvest time carrier such as are found on ensiling and feed cutters are arranged for eleva-ing the sheaves of grain right to the peak of the barn if necessary, and the elevators are run from a belt at puller (C) running out through the floor.

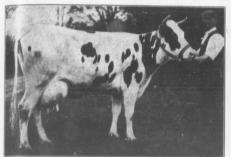
"A boy on the load could kill a main the mow with this arrangement," said Mr. Alexander. "The carrier will handle 40 sheaves a minute, which is more than the fastest man could

"If we farmers would make machinery do more of our work we would have less difficulty in keeping the bot on the farm," was Mr. Alexander's parting comment. good speed. Anyone who has pushed a bucksaw will appreciate just what a labor-saver is this circular saw.

It Applies in Canada, Too One of the most important items in the cost of "running the farm" is the large expenditure for tools and machinery. The necessary and desirable equipment of these is often slowly and labriously obtained. To acquire a ceretel reaper or mower, wagon or horse-rake, disc cultivator or manure spreader, for instance, the farmer will often sear his old suit another year,

sed, exposed to the weather during the fall and winter months, along the road between St Paul and Hinckley.

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Pansy Butterbank, 4 years, 26.16 lbs. Butter in 7 Days

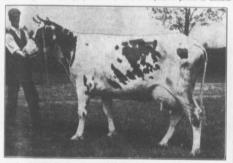
Record made 1½ mos after freshening; highest day's milking 95.8 lbs; highest day's fat 319 lbs; 1,1952 lbs. milk in 14 days. Made 21.762 lbs. butter record last var as Freshold; 41.46 lbs. the year before as a 2-pen-old. What will she do sett year? Owned by Centre and Hillview Farms. It is the bull calf from this cor that P. D. Ede, Oxford Centre, effected in his adv. in Farm and Dairy last web for 8300.

tint his family expenditures,

ven a degree of care proportionate wide, 58 expensive pieces of machin-

sint his family expenditures, and chines as were seen from one side of deep himself desirable recreation. In the car. Others, similarly exposed, had even where he has gained a position where such ascrifices may not be by farm buildings. Supposing only farm remains an item which machines on the other side of the net returns from his land.

One would imagine, then, that the equipment thus acquired would be about 75 miles long and say one mile account degree of care proportionate wide. Se expensive pieces of machines. and | chines as were seen from one side of



Jewel Aaltje Posch, a Daughter of Great Cow in Woodstock Sale

Four years old, 24.75 lbs. butter in 7 days; 47.08 lbs. butter, 1,034.2 lbs. milk in 14 days, averaging 3.72 per cent fat. The dam of this attractive 4-year-old, Anlige Posch Duckess, a large cow of splendid type and great performance (15.58 lbs. butter and 58.67 lbs. milk in 7 days), is offered in Woodstock sale. Owned by Centre and Illiview Farms, P. D. Ede, Oxford Centre, Ont.

-Photo by an editor of Farm and Dairy.

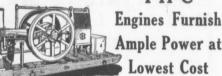
to the labor and expenditure

to the labor and expenditure bestowed on its procurement. But, while
this often happens, and is becoming
more and more the rule with 'businose farmers,'' the instances of negtet are so numerous as to kindle astonishment.

For instance, on a recent northward
trip, a member of the Faculty at Unitropy, and the process of the various machines, to
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took note of the transmission of several hundred thousand dollars
took note of the various machines, to
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took note of the various machines, to
display the whole cultrip, a member of the Faculty to less
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took note.

The control of the various of the transmission of the transmissi And unfortunately this area is

### IHC



A N engine that develops more than its rated horse power, with the lowest possible expense for fuel, needs only one other feature to make it the best engine a man can buy. That feature is durability. The engine which combines these three qualities, ample power; low fuel cost, and dura-

### IHC Gasoline Engine

In an emergency, an I H C engine will develop from 15 to 30 per cent more power than it is sold for. Because of its scientifically correct mixer, it uses less gasoline to develop that power than is required by any engine not so equipped. It is durable because only the best material is used, put together with the precision of a high-priced watch. For work on farm or estate, in mill, shop, or factory, wherever reliable, dependable power is required, an I H C engine is the one best buy. The precision of the precision of the property of the

outfits, etc.

The I H C local agent will show you the good points of the I H C engine.

He will explain why an I H C engine is durable. He will show you how
simple it is. He can give you good common-sense reasons for buying an
I H C engine in preference to any other. Get catalogue from him, or, write the nearest branch house.

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International Harvester Company of America

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The purpose of this Bureau is to furnish, free of charge to all, the best normation obtainable on better farming. If you have any worthy meetings concerning soils, crops, land drainage, trigation, ferflittlete, teams and them to I if C Service incream, Harvester Building, Chicago, USA 4 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CHOICE SINGLE COMB BROWN LECHORN ECCS

Ö



PAUDOR BINGLE COMB BROWN
LEGUORN ECCS
PARROR Booker and Gurney Strains, 81.89
per 15.
David A. Ashworth, Mapte Grove, Ontario.

Are you anxious to save Time and Money on the Work you are doing on your Farm at present and to get Larger Crops from your Farm or Orchard? If so, let us send you Free of Charge our Pamphlets on the use of

- USED FOR

REMOVING STUMPS AND BOULDERS DIGGING WELLS AND DITCHES PLANTING AND CULTIVATING ORCHARDS BREAKING HARD PAN, SHALE or CLAY SUB-SOILS, Etc., Etc.

Figure yourself what Clearing your Farm is costing now or what you are losing in crops through not clearing

Write Us About Arranging Demonstrations

MONTREAL, P.Q.

### Some Features We've Simplest Way to Pump Water to 60 rods a rule of efficiency is the form South of the water in the form some seventh of the water in the form of the water in the water Told You Little About

In our previous advertisements the big features of the Standard have been emphasized. You've heard a great deal about the Enclosed Dust-Proof Gear-ing-The Self-Olling System-The Centre Balanced Bowl-The Liberal Space Between Dise Edges and Bowl for Holding Accumulation of Impurities—The High Crank Shaft-The Low Supply Can-of the



Cream separator. But there are other features that add greatly to the convenience and For instance, there is the Wide Open Bowl so easy to get at and weah. No tibes to clog up either. Then there are the Discs before the Bowley of the Wide Open Bowl so easy to get at and weah. No tibes to below the Bowley of the Wide State of the Wide

milk to leak through when the bowl is re-volving. Another good feature is the Interchange-shie Clutch, which permits the Standard to the Control of the Control of the Control parts. Note: When you can the control parts. Note: When you can the control of the goars all stop and the bowl runs down of its own accord and without wear. The Inter-changeable Clutch also enables you to "pump" the handle and start the machine quickly and easily.

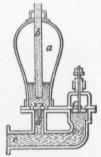


But there are other features But there are other features— many of them—told about in our booklets. Write for them. They are free to all progressive dairymen and

### The Renfrew Machinery Co., Limited

Head Office and Works : : RENFREW, ONT. Sales Branches: Winnipeg, Man., and Sussex, N. B.

Nothing is so simple and so satisfactory as the hydraulic ram to supply tanks, cisterns and watering troughs. A baby can start or stop it and it will run day and night with



no attention. It has beassociately no accention. It has be-required, many use the secome practically perfect during the sowing mangold seed, and many years it has been used. Of all splendidly for that purpose numping apparatus it is most rarely. We also sow our rape with

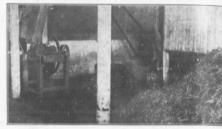
one-seventh of the water pipe can be raised five the flow imes the height of the fall, or one can be raised and discharge 10 times as high as the fall. For example with a fall of five feet, one gallon on of seven may be raised of feet, or one-half gallon raised 50 feet; again with a 10-foot fall one ga on out of 14 may be raised 100 feet.

Considering its low cos immense amount of work it saves with no other attention than starting and stopping, that it is not dependen and stopping, that it is not dependent upon anything but a flow pipe full of water, that it has nothing to get on of order, and only two valves that can possibly wear out, it is little weder that it has become so widely popular, especially upon dairy and stork farms, where large quantities of water are in constant demand.

#### My Favorite Implement

(Concluded from page 4) makes a first-class cultivator. We can broadcast the grain or adjust the spouts and drill in the grain to dept required. Many use the seed drill for sowing mangold seed, and it does

We also sow our rape with our see



This Machinery may be set in Operation by Pushing a Lever

Electric power has advantages possessed by no other form of energy. It may be set in operation instantly and stopped just as quickly. There is no power was ded at any time. In our illustration may be seen a corner of the O.A.C. cattle stalk, Guelph, Ont., and the root pulper and feed cutter both run by electric power Photo by an editor of Farm and Dair-

out of order. When the valves wear drill.
out anyone with a wrench can replace them. Where conditions favor in the place them. Where conditions favor its use it is beyond question the most economical and reliable means of pumping for ordinary farm and household purposes.

The ram consists of a large au-chamber (shown at a in the cutt), a flow pipe, e, an overflow valve, c, a delivery valve, d, and a delivery pipe, b. In operation the water flows through the pipe, c, and out at c un-til the force of the stream closes the valve there. The stream thus checked raises the valve, d, and flows into the air chamber till a balance is struck between the force of the water and The ram consists of a large air between the force of the water and that of the air thus compressed. Then this valve falls and the compressed air forces the water out through the delivery pipe, b.

#### TO DETERMINE CAPACITY.

Nothing could be more simple. Anyone can determine how efficient the ram would be on his own place. A fall of a few feet only is necessary in the flow pipe. This should be 25 to 50 feet long to gain the needed im-The put set iong to gain the needed impetus of current. In practice a fall of 10 feet frequently raises water 100 feet or more, often delivering it 100 or more rods away from the ram. The quantity delivered depends more or less upon the height forced, the distance sent, and the angles in the pipe. For ordinary delivered angles in the pipe. For ordinary deliveries at 50

We adjust tubes to the gran seed attachment, conduct them down in the spouts and sow the rape is drills, which is the better way. driis, which is the better way. In can easily sow eight acres in half a day. We also use the spring feet a the seed drill to cultivate the ray after it is up. We take off two ist where is the row of rape and de quick, good job, destroying weeds all what is very essential, stirring the ground. This latter ensures may better conditions for the growth of the rape.

#### Conveniences in My Stable

(Concluded from page 4) elevated tanks. Water is also pin to the box stalls. The horses get th water from a cement trough in the stable. The trough is fed from cement cistern 11 by 11 by 8 feet the corner of the stable, or from the elevated tanks. Water is also take from either elevated tank or from the cistern by the threshing engine or into a cement trough in the yard for stock in summer.

WHERE TO START IMPROVING

\*\*\*\*\*\*\*\*\*\*\* FARM MAN ........... Experience in Har

W. O. Morse, He We cut our alfalfa flower. In our 15 et do not now wait as too commonly We start the mow



Stock from

Peter Pan, the Ayrs imal of the breed. ity Show, Chicago, v R. R. Ness to the Or all four two-year-old ler is off in the mor

Malfa lie in the swa is off the next morning e alfalia in neat c and for some time. There is anot have used once or



Was Her Equ

The greatest animal The greatest animal chapelton Betty 2nd, est quality. She has id not even udder. Prof. tire he ever saw. She

intend to practice w the future—that a ndinning of puttin barn in a wilted

#### To Keep Crows W. A. Oswald, Two

Some time ago in I m pulling up and ring or at seeding t arly every scheme I r had heard tell of prevent crows dest il the following methe

Que.

## Save Money on your

## Cement Silo-

T is mighty hard work and an ex-pensive proposition to place the last eight or twelve feet of con-crete on a cement silo.

To give the best results a silo should be at least thirty feet high. The last ten feet—handling the heavy concrete at a considerable height and under unfavorable conditions—requires skilled labor. It will cost you more in time and trouble than the rest of the job put together.

Save yourself this hard work and cut down building expenses by using steel plate construction to replace the concrete at the top of your silo.

The steel plate comes to you all ready for erecting. It is relied, punched and marked for quick assembling. You and your own help can put it up. It doesn't need a bollermaker or gether. All you need do, is to follow the marks and know how to swing a hammer.



The plate is rolled to 18, 12 and 14 ft. diameters. Each course is a made 4 ft. high. Two or three as made 4 ft. high. Two or of the cement base will extend your sile the necessary height. What's more—and this is important—if your corn crop is larger than you figure on, you can add a course at any time.

That this steel plate is durable,

I that this steel plate is durable,
is storm, shinkage and frost
proof, and that it will keep ensliage in 20 per cent better shape
than stone, cement or wood, has
been thoroughly demonstrated in
the numerous steel silos built by
Canadian farmers in the last ten
years.

As for prices—this plate with rivets supplied—will cost you no more than the cement and gravel alone required for the same amount of concrete work. It's a money saver every time.

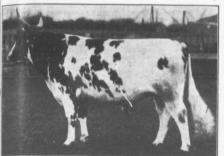
Write for prices and full particulars to-day

The Waterous Engine Works Co., Limited BRANTFORD - CANADA

#### raph MANACEMENT which I have found a sure remedy or preventative. FARM MANAGEMENT Experience in Harvesting Alfalfa

W. O. Morse, Halton, Co., Ont. We cut our alfalfa as soon as we see We cut our analia as soon as we see flower. In our 15 years' experience have tried cutting it at an stages, at do not now wait for the full bloom as too commonly advised,

Dump about a bushel or so of seed corn in a tub. Have some hot, nearly boiling, coal tar on hand. Two or three spoonfuls will do. Take a stick three spoonfuls will do. Take a stick or corn cob and put an end in the boiling tar and stir it through the corn for several minutes. Two or three dips with a good stirring each time will give the corn a strong smeal of coal tar without making it sticky We start the mower as soon as the for sowing provided the tar is good

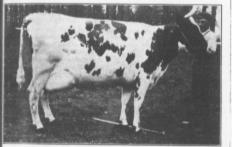


Stock from This Bull are in Demand the World Over

ter Pan, the Ayrshire bull here illustrated, is recognized as the greatest show all of the breed. His greatest victory in America was at the last National Show, Chicago, where he was champion over all breeds. In the consignment R Ness to the Ormstown sale, June 14th, are eight daughters of this great ii, four two-year-olds and four yearlings. Could anything better be desired.

is is off in the morning, and let the and hot. Mr. Crow will give a corn field in the swath until the **new** field a wide berth after he has once half a salfall in neat coils and allow to e alfalia in neat coils and allow to

the alfalls in neat coils and allow to the date. There is another system that Ontario we need have no further fear are used once or twice, and which



Was Her Equal Ever Seen Before This Side of the Atlantic?

The greatest animal in the recent importation of Mr. R. R. Ness, Howick, Que, Chapelton Betty Ind. a skryear-old cow of great size, and yet possessed of the quality. She has ideal dairy conformation and a wonderfully well developed of the udder. Prof. Barton of Macdonald College considers her the best Ayrine her crit awa. She will be in the Ormstown sale.

-Photo by an editor of Farm and Dairy.

intend to practice more extensively | fluence of the financial interests on the future-that advocated by Mr. dinning of putting the alfalfa in barn in a wilted condition.

### To Keep Crows From Corn

A. Oswald, Two Mountains Co., Que.

Some time ago in Farm and Dairy meone asked how to prevent crows seeme asked how to prevent crows ford, Ont.

me nulling up and eating corn in pring or at seeding time. I had tried surface were scheme I could think of a bad heard tell of without success a prevent crows destroying corn, unit the following method was proposed, into it.

our members in parliament or in the legislature. Wherever the people have the Referendum they have the power to force their governments submit any legislation to them for approval before it becomes law. In this way the work of the bonus hunters and the seekers for tariff favors can be blocked.—W. C. Good, Brantford, Ont.



### This Engine Runs on Coal Oil

Every farmer can afford an E'lls Coal Oil Engino. They give far more power from coal oil than other en-gines do from gasoline. They are safe, as well as cheap; no danger of explosion or fire.

cheap; no danger of explosion or free.

The strongerst and simpler farm engine made; only
three moving parts; nothing to get out of repair. Anythree moving parts; nothing to get out of repair. Anythree moving parts; nothing to get out of repair.

Anythree moving parts; nothing to get out of repair.

Anythree moving parts; not get of the control of the control
as aw wood, pump, thresh, run cream separators, and do
doesens of other lobe. Obsager than horses or hired
men. Fill up the tanks and start it running, and no
stop it, discussion is nocessary; it will run till you
stop it, discussion is nocessary; it will run till you
stop it.

FREE TRIAL FOR 39 DAYS. You don't have to take our word for it. We'll send an engine anywhere in Canada on Thirty Days' Free Trial. We turnish full instructions for testing on your work. If it does not suit you send it back at our expense. We pay freight and duty to get it to ki f you don't want it.

Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory.

3 to 15 horse-power
We pay Duty and Freight Ellis Engine Co., DETROIT, MICH





#### \$25 Buys a Sureshut Tile Machine

either 3 inch or 4 inch size, order early and make your own cement tile for spring use. Capacity de-pends on speed of the operator, ranging from 300 to 500 tile per day. Send for literature.

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USE this All-steel frame. Ball and roller bearings. Sizes up to 8 feet cut. Any length straw and harvest all handled. No threshing. Easy your grain with Levers. Light Draft. the least waste of time and energy.

Frost & Wood Binders

Frost & Wood Binders cut rapidly, elevate thoroughly, and tie each sheaf securely. Ample power is generated by the main drive wheel to cut under all conditions. Every shaft, axie and working part is fitted with a large size Roller Bearing, making this the easiest running Binder on the market. There is no frields, no binding of gears, no chance of driving shaft sgetting out of the control of the second of the second sec

and foot levers; so

light, heavy, tangled or down grain can be brought to the Cutter Bar and nothing wasted

A Post Card brings you the F. & W. Binder Book. Write our nearest office.

The long spokes of the Eccentric Sprocket used on Frost & Wood Binders give the necessary power to congress and tie each bundle thoroughly,—then the short spokes make the discharge arms act quickly and get that sheaf out of the way of the next. This feature is worth any man's while to investigate. It and numerous other distinctive advantages of this machine are described.

this machine are described in our Binder Booklet. It will pay you to get posted.

THE FROST & WOOD COMPANY, Limited

SMITE'S FALLS, ONTARIO

For Sale in Western Ontario and Western Canada by
THE COCKSHUTT PLOW CO. Ltd., BRANTFORD, WINNIPEG

#### FARM AND DATRY

AND RURAL HOME

Published by The Bural Publishing Com-



 FARM AND DAIRY is published every hursday. It is the official organ of the fritish Columbia, Manitoba. Eastern and festern Ontario, and Bedford District, uebec, Dairymen's Associations, and of the Canadian Holstein, Ayrshire and Jer-ys Oattle Breeders' Associations. Thursday. I British Colu

sey Cattle Breeders' Associations.

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5. ADVERTISING RATES quoted on plication. Copy received up to the Fri preceding the following week's issue-6 WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

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The paid subscriptions to Farm and Dairy exceed 13.00. The actual circulation of each issue, including copies of the paper sent subscribers who are but slight-from 14.00 are not sample copies, variety of the paper sent subscription and sample copies, variety of the paper sent subscription rules are accepted at less than the full subscription rules. Sworm detailed statements of the circulation of the naper, showing its distribution by counties and provinces, will be mailed free or request.

#### OUR PROTECTIVE POLICY

We want the readers of Farm and Dairy feel that they can deal with our ad-risers with our assurance of our ad-risers' reliability. We try to admit to r columns only the most reliable advertiesrs with our assurance of our advertiesr's heliability. We try to admit to our columns only the most veilable advertilers. Belind any outerlier heliability was a serile verties and the serile verties. The serile verties was a serile verties and the serile verties and the serile verties. We will investigate the circumstances failt. Should we find reason to believe able, even in the slightest degree, we will discontinue immediately the publication of their advertisements. Should the circumstances were seriled to the serile vertical v

#### FARM AND DAIRY PETERBORO, ONT.

#### DOES IT PAY?

Decisiveness is a necessary attribute to the successful business man. We farmers are called on to exercise this quality quite as frequently as any other class of men. But do we?

Were a new and improved machine for the manufacture of nails put on the market, nail manufactureres would carefully size up the new machine. They would decide whether or not its increased efficiency would make the investment in that new machine advisable. And then, did they decide that such an investment would be a paying proposition, they would order the machine immediately.

When a new agricultural implement comes on the market, we discuss its merits or demerits. We agree that it would'be a fine thing to have, but we do not get it. We keep putting the purchase off until the old machine ient the farm laborer should spend

wears out, and we absolutely have to buy a new one. An instance in point is the two row corn cultivator that has been on the market for two or three years now. Would it pay us farmers to sell our old straddle row corn cultivator and buy one of these new and improved implements? There can be no question about it. The larger implement cuts work in two: and hence the expense of cultivating. It enables us to cultivate a large corn field just when it is in the right condition for cultivating. It enables us to pay the hired man bigger wages. and still make a larger profit for ourselves. But in spite of the manifold advantages of this new implement the greater part of the corn in the country is still cultivated by the old one row type of machine; and the greater part of these old cultivators in use are of the walking type.

The fact that the old implement is still in good running order is no reason why we should not sell it to somebody less progressive than ourselves. and get a new two row cultivator. The money that we would save in the labor account alone in the first couple of years, if we grow a considerable acreage of corn, would more than pay for the new cultivator.

It is the same with the manure spreader, the sulky plow, and all other labor saving implements. We realize their value. We know that we could make no better investment. But we keep putting it off.

It is the man of decision who wins every time. In the long run economic conditions will force us to use the new and improved machine, or else go out of business. Why not start now to sum up the advantages of each new implement that comes on the market, decide whether or not it will be a paying proposition-and then act.

#### THE UNEMPLOYED

But have not the problem of the "The Problem of the Unemployed," has a city flavor. We at once think of the great number of working men in our cities and towns who cannot sell their labor and hence cannot supply themselves with the necessities of life. We sometimes wonder why these men do not come out to the country where there is lots of work.

But we have not the problem of the unemployed in the country also? Whatever may be the uncertainty of work in manufacturing centres the unemployment there does not compare with that in the country. In the city severe industrial crises may occur at long intervals. The crises to the agricultural laborer returns every year with the winter. We do not realize how severe this crisis is for our laborers. Population is thinly scattered in the country, and the chances are that the men leave the country to join the ranks of the unemployed in the city to make the problem there more

serious. But we have a problem. The only solution of our problem of the unemployed is steady work the year round. The lack of it has drained the country of good workmen. To be most effic-

all of his time in the country. Preferably he should be born there. But if we would hold such men we must give them some surety of work twelve months in the year.

We dairy farmers are in an extra good position to give employment the year round. With proper management we could use our labor to produce crops in the summer and by having our cows freshen in the fall give inside employment to our men during the winter. Unless we follow some such system as this, the problem of getting labor in the country will continue to be a serious one for both employer and employed. We are pleased to notice the increasing number of our farmers who realize their responsibilities and are making provision for continuous employment for their hired help.

#### COOPERATION VS. CENTRAL-IZATION

The introduction of expensive labor saving machinery on our farms has had far-reaching effect on social as well as economic conditions in country districts. This influence on our social well being will become still greater as time brings new improve-

In our large factories, where machinery plays even a more important part in production than it does on the farm, the laboring man is a mere cog in a wheel of industry. When he wishes to sell his labor the city workman has to depend on the man who owns the machinery to let him work. He cannot start into business for himself as in the old days, when everything was done by hand. He has not the capital to buy the necessary machinery. Thus the very life of hundreds and thousands of working men is practically subject to the will of the capitalist who owns the manufacturing plant, the machinery.

The same condition is developing in rural sections. With the introduction of the power tractor and other large and expensive machinery, it will be harder and harder for us average farmers to live in competition with the extensive farmer who can afford the investment in expensive machinery. It would seem that in time we farmers, who are the backbone of our demccratic system of government, may be pushed to the wall and be mere cogs in the machine of rural industry, as are now many of our brethren among the working men in our cities.

How are we to avoid this social danger that is ever growing more dangerous? The peasants of Germany and several other European countries, have shown us the way, or at least one way. In many sections of Germany, where the farms are only a few acres in size, all of the plowing is done by steam tractors at a mini-mum of expense. These tractors are owned on a cooperative basis by societies made up of numerous small farmers. Threshing machinery is also owned largely on the cooperative basis. We can do likewise,

We farmers will welcome every improvement in machinery that makes possible the greatest production of and equal rights for all.

wealth, but at the same time we mu recognize the social dangers that g with expensive machinery Is it to be a case of large farms to a common large machinery and hence all of the wealth of the country in the hands a few, or small farmers, large m chinery owned cooperatively and more even distribution of wealth Which do we prefer?

#### IS OUR TARIFF TOO HIGH!

We are told that the customs ta in Canada is primarily a revenue to iff, that it is designed for the coll tion of moneys necessary to the e penses of Government and that is protection it affords to our manuf turers is only incidental. If tariff makers are honest in their de claration that the tariff wall is signed for revenue purposes only, the must, if they would be consiste immediately start about reducing tariff. For many years now the D minion Government has had a si plus revenue running into the milli of dollars annually. It is predict that the surplus in this present for year will be the largest on record. it not time to lower the tariff whe we get more money than we need to necessary public expenditure?

A great surplus of revenue such as our Government now has, leads all kinds of extravagance. The to Mackenzie and Mann of 86,500 to which no one pretends to defend is sample of the reckless extravagan that always goes with too large to enues. The move made by the Fe eral Government to assist agricult and good roads in the various pr inces, expenditures that should be m from Provincial funds, is another a ample of the effort that is being may to dispose of the surplus revenue the has been taken largely from us lan ers by indirect taxation. Incre military expenditure is another met od of hiding a surplus and is bei advocated most strongly by those si fear that our large surpluses may h a menace to the protection that the 'incidentally" enjoy.

If our tariff is for revenue purpos only it is obvious that we are a being taxed too highly. And whe we start to advocate a reduction truth comes out. Our tariff whi esablished primarily for revenue, now maintained for the benefit privileged interests who are then enabled through the restriction the tariff places on trade, to m millions of dollars at the expense us farmers and the working mea our cities.

The "tariff for revenue" argue no longer justifies the height of a Canadian tariff wall. The protes interests recognize that this any ment will no longer stand exam tion and are now advancing other a guments equally hollow in defence the tariff as it is. We farmers he nothing to gain by allowing speci privileged interests to grow rich h hind the walls of a protective tari It is time that we were lining up m strongly with our farmers' organ tions in their fight for tariff reduct

See this man way" smile!

june 6, 1912.

X

In case you let us introduce Galloway, now

famous farm im turer, of Water Ten years ag travelling salesn loway got his what advertising

He relates: "I came acros German who had wanted me to stract for advertis Once a mail ord the machine we was then that th

His first adve tion, as mention lot of money to During the last spent hundreds dollars in adver-PAID. Every fa States is now name of William man who divide the farmer.'

Galloway says "Advertising is is sown, a certa

quires will be quiry, however, a start toward is the working o sale that is the the mail order b "Good adverti "Advertising s utmost attention. est and well writ

strated to cate

After he notices

something in that will hold his reads the whole Galloway is n ing. To-day he vertising space papers than any

in the United S It has made hin There's a big ing one among Canada to mak

success. Will you ste this field? It's many who are small way. It come in and wo -(a Gall-o-wa

Are you the Dairy is ready to at it right and till you reflect "Bill" Gallows known to milli made millions I "A Paper Fare

(17)

#### XXXII

See this man with the "Galloway" smile!



Someone in Canada will wake up some day and duplicate his great and successful experience with advertising and selling implements to farmers direct by mail.

In case you do not know him let us introduce you to William Galloway, now a millionaire and famous farm implement manufacturer, of Waterloo, Iowa.

Ten years ago while he was a travelling salesman ("Bill") Galloway got his first insight into what advertising could do for him. He relates:

"I came across a good natured German who had a good article he wanted me to sell. My first contract for advertising called for \$83. Once a mail order came to us for the machine we were selling. It was then that the idea of retailing through the mails came to me."

His first advertising appropriation, as mentioned, looked like a lot of money to him at that time. During the last four years he has spent hundreds and hundreds of dollars in advertising and IT HAS PAID. Every farmer in the United States is now familiar with the' name of William Galloway, 'the man who divides his melon with the farmer.'

Galloway says:

"Advertising is not unlike a crop "Advertising is not unlike a crop. If a certain amount of advertising is sown, a certain amount of inquiries will be received. An inquiry, however, is but one-third of a start toward closing a sale. It is the working of an inquiry into a sale that is the strenuous part of the mail order business.

"Good advertising is a field in which there is little competition. "Advertising should be given the utmost attention. It should be honest and well written, and should be dillustrated to catch the reader's eye. After he notices it there should be something in the advertisement that will hold his attention until he

Galloway is noted for fair deal-To-day he carries more advertising space in the agricultural papers than any other advertiser in the United States except one. It has made him wealthy

reads the whole of it.

There's a big field and a growing one amongst the farmers of Canada to make a "Galloway"

Will you step in and cultivate this field? It's a winner now for many who are advertising in a small way. It has rich possibilities for a "big" man who will come in and work it in a big way -(a Gall-o-way)!

Are you the man? Farm and Dairy is ready to help you. Come at it right and it will not be long till you reflect the now famous "Bill" Galloway smile-a smile known to millions and that has made millions for its owner.

"A Paper Farmers Swear By"

#### For the Hired Man

Jas. Ross, Oxford Co., Ont.

I am writing this letter to the hired men who may read Farm and Dairy more particularly than to independent When I first moved into the country to work several years ago I was lonely. I was the only hired was lonely. I was the only hired man. It was a good sized walk from that boss's house to the public road. If one wished to go and look up associates in the neighborhood, he would be tired and ready to go back to bed by the time he reached the highway, by the time he reached the highway, to say nothing of the time it took to reach the nearest neighbor's a quarter of a mile or so further on. Man is a social animal, so the professors say, and he likes to have the company of his fellows. The difficulty in getting that company was the biggest objec-

Then I bought a bicycle. would not be without one. A mile, two miles, or even four or five miles A mile, is nothing when you can jump on to a wheel and cover the roads at the rate wheel and cover the roads at the rate of a mile every five or six minutes. See your friends! Why you can see every friend you have in the township without going to half as much labor as I did at first to visit my next door neighbor. Of course the boss always has a horse when he wants to go anywhere, but I notice that I can usual-

where, but I notice that I can usually get there faster.

Many of the hired men in this section spend over half their incomes on keeping up a horse and rig. Why not buy a bicycle instead?

#### Dairy Notes

There is no reason why dairying on a small scale should not pay as well in proportion as dairying on a large scale. The trouble is that the farmer who keeps but a few cows often ne-glects them.

The farmer who gives the dairy side line first-class attention soon has dairying as the main standby. He

finds that is pays.

A long pedigree cannot make a cow profitable when that cow is left to the

tender mercies of the straw stack.

It is better to feed an animal well than to keep it in a close ventilated stable, even if the latter method does save feed

Bad ventilation always goes hand in hand with lowered vitality, de creased milk yields and tuberculosis.

#### Why Use Traction Ditcher

(Concluded from page 5)

heard. But even at this price they consider they are making a good investment. Dr. Creelman, of the O. A. C., had his new farm at Vineland underdrained last year by a ditcher, and the land is draining nice-ly this year in spite of the fact that part of it is a heavy, red clay

part of it is a heavy, red clay.

The great advantage of the ditching machine is the quickines with which it does not be the clay to the ditching and the clay to the discharge from the acre they discharge from the acre they left under the discharge from the acre they left under and so on till the job is done. But the \$00 additional returns which they have not received from the acre they left underlined till the fourth year would have payed till the fourth year would have payed for underdraining more than two acres the first year. This then is the great advantage of the ditcher—that instead of getting returns from a few tile each year we start immediately to get the benefit from the entire job.

See your friends about subscribing to Farm and Dairy.

## DE LAVA CREAM SEPARATORS

### Cheapest As Well As Best

Every sensible person wants the best of everything, but in many things the best is beyond their means and they must necessarily be content with something less.

In the case of the Cream Separator, however, the best is fortunately the cheapest as well, and it is of the greatest importance that every buyer of a separator should know this.

Moreover, the best is of more importance in the case of the Cream Separator than in anything else, since it means a saving or a waste twice a day every day in the year for many years.

It is true DE LAVAL Separators cost

a little more in first place than some inferior separators, but that counts for nothing against the fact that they save their cost every year over any other separator, while they last an average twenty years as compared with an average two years in the case of other separators.

And if first cost is a serious consideration a DE LAVAL machine may be bought on such liberal terms that it will actually save and pay for itself.

These are all important facts which every buyer of a Cream Separator should understand and which every local DE LAVAL agent is glad to explain and demonstrate to the satisfaction of the intending buyer.

If you don't know the nearest DE LAVAL agent please simply address the nearest of our main offices as below

DE LAVAL DAIRY SUPPLY CO., LIMITED 178 William St. MONTREAL. 14 Princess St., WINNIPEG

### PIGS



Again we announce our popular offer of a pure bred pig, eligible for registration, which we will give you free as a premium in return for 9 new subscriptions to FARM AND DAIRY, each to be taken at only \$1.00 a year.

You may have choice of either sex, Tansworth, Berkshire or Yorkshire. We have been sending out hundreds of pure bred pigs. We will send you one, a real dandy, for the little time it will take you to get these new subscribers. Write us tonight about the kind of pigs you want and get busy and secure your friends and neighbors as

PIGS

PIGS FARM AND DAIRY, Peterboro, Ont. 

STYLE BOOK for 1912, of "QUALITY LINE



### **VEHICLES and HARNESS**

Eighteenth Year of seiling direct to the User. Our Catalogue will help you to choose just the Vehicle or Harness you require, and save you NOWER. It describes and pletures many styles, the second pletures will be an expension of plains our method of Selling Direct, and saving you the Middlemen's profit. Remember we pay the seem Cana da. The Catalogue is Free for the ask-

INTERNATIONAL CARRIAGE CO. DEPT. "D" - -

BRIGHTON.

ONT.

Better feed cheaper feed, more milk, larger profits

The most prosperous and successful dairymen in Canada all agree that one of the first. and certainly the most profitable, investments that a cow owner should make, is the erection of a good silo.

Leading dairymen also testify that the Ideal Green Feed Silo can be depended upon to give entire satisfaction. It has proved its worth by years of use upon Canadian farms.

The material and construction throughout of the Ideal Green Feed Silos are of the very best, and everyone contemplating the erection of a silo this year will find it to his advantage to get our specifications and prices before contracting for the erection of a silo.

**EGGS & BUTTER** 

Ship your New Laid Eggs and Fresh Dairy Butter to us. PROMPT RETURNS

EGG CASES SUPPLIED

Established 1854

TORONTO

"LONDON"

Cement Drain Tile Machine

The



Write for our new Silo Catalogue

#### DE LAVAL DAIRY SUPPLY CO., LIMITED

LARGEST AND OLDEST SILO MANUFACTURERS IN CANADA 173 WILLIAM ST., MONTREAL 14 PRINCESS ST., WINNIPEG

#### A much Needed Addition

J. Robertson, Middlesex Co., Ont. A set of cream scales is a piece of apparatus badly needed in the major-tial in the purity of the home air the lower of the home air the house daily.

fowl. The farmers seem to like to sell at the door for cash. The stores want them to take trade.



What an Improvement is This on Home Butter Making

New and improved machinery that our creamerymen must have is being one startly introduced. In dairying as in other lines of industry machinery is rapidly putting the small scale home manufacturer out of business. In this case the change from small to large scale manufacture is an advantage all round. This illustration is of the interior of the well equipped creamery of G. C. Thomas. Sim-

men have for years been telling us of the advantages of a rich cream and by the advantages of a rich cream and by educational effort they have been try-ing to persuade us farmers to send them a 30 or 35 per cent. cream. Their educational cympoign has not sochieved the results that they think it should and I suppose creamery men think us farmers slow.

Here is my position as a patron. would like to send to my creamery would like to send to my creamery so per cent. or 35 per cent. cream if the butter maker wants it. I want to see our creamery make the best butter of any creamery in Ontario. Also I want to make as much money as I can out of my cream. To do this I canlong as our creamery man insists in using the pipette in taking samples. using the pipette in taking samples. It is evident to the most dense of us patrons that 35 per cent. cream is lighter bulk for bulk than is 20 per cent. cream. When the test is made by the old time nipette method therefore my thin cream is credited with more fat than it actually contains while my neighbors thick cream is

edited wth less. While our creamery men want thick cream the most of them are paying a premium for thin cream. Let them use the scales in taking samples and we will give them any kind of cream

#### An Egg Trade on the Side

G. A. Stevens. Kent Co., Ont. I find that dealing in eggs as a side ne to the creamery works very well Thus to the creamery works very well I buy eggs direct from the farmer and sell them for as much as I can. I find I can always get enough eggs to make a load, and often I cannot take all the eggs on account of not having room on the wagon.

I give the hauler money enough to can always buy for one cent less JAMES IRELAND, - Ridgetown, Ont.

#### WANTED-CREAM

Highest Toronto prices paid for Cream delivered at any Express Office and Control of the Mose of the Control of the Mose of th Write for THE TORONTO CREAMERY CO., Ltd., Toronto

Mr. Farmer, Listen! Wilson's COLD MEDAL Scales



#### OUTFIT FOR SALE

2 Cream Vats, 500 gallons each. 2 Churns (Box), driven from centre, 400 gallons each.

30 Double-jacketed Cream Cans, 30 gal-ons each. The price of these cans was 300 Half-pint Test Jars. 5 Hauler's Cases with the

Hauler's Cases with 40 bottles each.

Mason Butter Worker.

Wizzard Babcock Tester, with bottles

omplete.

1 Roller, 15 horse power.

1 Engine, 15 horse power.

Tanks, Scales, Ladles and all other small articles, belonging to a first-class creamery. All these articles in first-class.

As I have given up business, will sell everything at half price or less I will sell all or any part of it that is required or would sell the creamery intact. Apply to

Provide Po

June 6, 1912.

for Pump Write for FREE b

ONTARIO WI PUMP O TORO

Edward Ch AUCTIONEER Pedigree Stock Sa Many years' succei from Woodstook, Ox me to get you sai ence solicited.—178 ento, Ont.

Send me, FRE

A roof LIGH

That's about the roof for you to withstand the fi the Lightning Fi

PRE CAF SHI

laid under the laid under the fication make a ning-proof roofyou can afford want you to wond you to wo of a book which new Preston Spening protection.

Consider the factors are a note. what you think, the market for opinion of this

Metal Shingle Siding Co., L Preston, Ont

### Reliable help for the farmer

Farm labour is scarce. Wages are high. All the more need for a Barrie Engine. Soon pays for itself in time and labour saved. Grinds grain, shells seed corn, pumps water, cuts straw, threshes beans, saws wood, drives churns, separators and washing machines. Does many other things too.

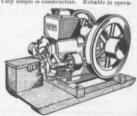
Barrie Engines Work Long hours without getting tired. Very simple in construction. Reliable in opera-tion. 3 to 100 h.p. Stationary or portable. For gasoline, distillate, natural gas, pro-ducer gas. Write for cat-

ducer gas. Agents wanted.

THE CANADA PRODUCER AND GAS ENGINE CO.,

Barrie, Ontario, Canada

Distributors: ames Rae, Medicine Hat; Can-da Machinery Agency, Mon-real; McCusker Imp.Co., Regina





DAVIES Co.

clean, sanitary and durable can be moved from place to place or store away; or used for other purposes. Makes good storage tank for sap. Note construction 4 sizes. Send for price list.

Cement Drain He Machine
Makes all sizes of tile from 1 to 16 ins. Cement Drain Tile are here to stay. Large Profits in the business. If interested send for catalogue. London Concrete Machinery Co., Dept B., London, Ont. Larget manufacturers of concrete Machinery in Canada. Steel Trough & Machine Co., Ltd. 5 James St. : : TWEED, ONT.

See your friends about subscribing to Farm and Dairy.



#### Edward Charles Rvott AUCTIONEER & VALUATOR.

Pedigree Blook Bales are my specialty.

Lang years' successful experience out from Woodstook, Oxford Co., Ont., qualify se to get you satisfaction. Corresponduce solicited.—178 Carlaw Avenue, Torsito, Ont.

Send me, FREE copy of the new cabout ROOFING, to protect my lightning.	dition of and tell	"TRUTH
Name		
Address		
Province		
Publication Para	n and Da	PP



That's about the only safe and sane roof for you to invest your hard-earned capital in. A roof that will withstand the fierce onslaughts of the Lightning Fiend can be depended upon to be weather proof in every

#### PRESTON CAFE LOCK DHINGLES

laid under the new improved speci-fication make an absolutely Lightlaid under the new impreved speciation make an algolutely Light-discation factor and algolute Light-ing-pred roof—the "anly reof that you can affect to buy. Now, we want you to write for a free copy of a book which fully describes the new Preston Specifications for Light-nary protection. Read it energially, and the control of the control of the drop us a note telling us exactly what you think, whether you are in the market for a roof or not. Your copinion of this book will be highly



Cheese Department
Makers are invited to send contributions to this department, to ask questions on matters relating to choose making and to suggest subjects for discussion. Address letters to The Cheese Maker's Department.

#### The Test Up-to-date

By "Lastier," O. A. C., Guelph By what system are we to pay pa-trons of our cheese factories? This has been the subject of more discussion for the last 20 years than perhaps any other dairy problem. Before Babcock introduced his test in 1890 there was only one system in vogue, i.e., the pooling system. At the present time there are three systems: paying by weight of milk; (2) paying by weight of fat; and (3) paying by the "fat plus two" method. weight of lat, and (5) paying by the "fat plus two" method.

Why is it that we have three total-

ly different methods of dividing the proceeds of cheese sales? Two answers suggest themselves: First, that the farmer does not understand the process of cheese making well enough to be able to grasp the fact that all milks are not of equal value in the that the cheese-producing property of milk is not determined by the amount of fat contained therein. Secondly, that until recently there has been no Secondly, system to which one could point and say "that is perfect."

WE NOW HAVE COMPLETE TEST

proped sively that it, in conjunction with the Babcock test, is of inestimable value of different milks for cheese making. Not onmaking. Not on-ly has this fact Leen proced, but also the practicability of operating the test in the factories themselves was proved this last o. A. C. und an undergraduate who conducted a series of tests in each of 10 cheese factories in On-tario. Similar

work to this has een conducted with good results in in such a tactful way that they were the States.

Theoretically the problem of apportioning the dividends so that every man gets the true value of his product man gets the true value or ins produce is solved. The next step is to introduce this ideal method (paying by both tests) into every cheese factory in Canada. How can this be accomplished? By either of two ways—education or legislation.

DELAY MEANS INJUSTICE If the former method is adopted it will be years at least before every

will be years at least before every man receives his monthly cheque for the pounds of fat and easein that he has sent to the factory, and during these years hundreds of men will be unconsciously swindling their neighbors out of many dollars because the swindley ones have not yet wakened up to the fact that the method they employ for paying for the milk is un-

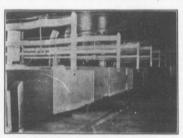
ment, would be to send a competent man who is thoroughly conversant with both the Hart casein test and the Babcock test, who is also a cheese maker and therefore able to discuss maker and therefore able to discuss the methods of paying patrons, to each cheese factory in Ontario, and there to point out and discuss the "pros" and "cons" of all the methods of payment in vogue, and then to de-monstrate by means of conclusive ex-perimental data the superiority of the casein-plus-fat method over all others.

LET MAJORITY RULE

At the end of each such meeting a vote would be taken and the percentage of those in favor of legislation, compelling the use of both tests (the testing being done by government officials), ascertained. If the majority of patrons throughout the province were in favor of such a law then in all probability in a few months every patron would be paid on the same basis, and cold justice would be served to all and sundry.

#### Influence of the Maker

Strong testimony to the influence that a cheese maker can wield in improving the quality of the milk rede danty of the lifts ceived at his factory was given by Mr. J. B. Wilson, of Gananoque, at the last session of the Eastern Ontario Dairymen's Association. Mr. Wilson told of the experience of a cheese maker in his syndicate, Mr. J. J. Laval. In 1910 it took 11 pounds of milk to make one pound of cheese in WE NOW HAVE COMPLETE TEST
When Dr. Hart brought out his
milk to make one pound of cheese in
milk to ma



A Big Factory is a Well Equipped Factory

Factories that have a large output as has the Dominion Factory in Ferth Co., Ont., can afford equipment that is beyond the reach of the small factory, and hence have better control of the quality of the cheese they turn out. Mr. R. A. Thompson is maker in this factory.

not offended. The financial results were enough to convince any patron that his method was the right one. He took in that year \$300 more for the same amount of milk than was received in the previous year. Other makers can do likewise.

If we get all of the night's milk of this country cooled down we could be sure of better cheese and letter prices.—J. H. Singleton, Lanark Co., Ont.

I am very much pleased with your Veteringer Book that I got for get-ting subscriptions to Farm and Dairy. The book is appreciated We have referred to it already. It is certainly a great book in case of emergency. I am much indebted to you and wish your paper all good luck. I hope you just.

Why not combine education and legislation? A suggestion brought forward by, I Lelieve, Mr. Alex. Mo-New Westminster Dist., B. C.



Peerless Saves

is the poultry fence tha 'earlies poultry fencing is made of the bel fence wire-tough, elastic and spring will not snap c, break under sudden she uick atmospherie changes. Our method anizing positively prevents rust and 'fiske, beel or chip off. This feat a joints are securely held with the "Pe soints are securely held with the "Pe

Banwell-Hoxle Wire Fonce Co., Ltd Winnipeg, Man. Hamilton, On

### WANTED --- A Home on a Farm

Will work night and day, summer and winter, work bardest when I am full, but am always ready for what there is to do, will agree never to leave the farm nor to interfere in any way that he will be a summer of the law of

cont or more in quantity, and quality improved.

Will prepare your sail for entireating the prepare of the prep

Signed, The W. W. SMITH DRAIN TILE Address all communications relating to freight rate and prices f.o.b

ing to freight your station to The W.W. Smith Brick & Tile Works Shallow Lake, Ont.



"QOY is more divine than sorrow; for joy is bread and sorrow is medicine."-Henry Ward Beecher.

### The Second Chance

(Copyrighted) NELLIE L. McCLUNG

Author of "Sowing Seeds in Danny" (Continued from last week)

It took Sandy an hour to write his reply, and the wiring of it cost him four dollars, but it really was a mar-vel in its way—it was a wonderful production from a literary standpoint, and it was marvellous in its effect, for it caused Dr. John MacTavish, late of Glasgow, Scotland, to change his mind. He was just about to leave his house to deliver an address before Medical Association when this, the Medical Association when this, the longest telegram he had ever received, was handed to him. He read it through carefully, looked out at the gathering snovstorm, shrugged his shoulders, read it again, this time aloud, then telephoned his regrets to the Medical Association.

The storm, which had been threat-ening for several days, was at its height when the train, four hours late, came hoarsely blowing down the long grade into Millford. Sandy was waiting on the snow swept platform for took him at once to his hotel, where

a hot supper was waiting for him.

When the doctor had finished his supper he was in a much better hu-mour, which, however, speedily van-ished when his host informed him that the patient was in the country, and that they would drive out at once.
"I won't go," declared Dr. Mac-Tavish bluntly. "I won't go out in

Tavish bluntly. "I won't go out in a blizzard like this for anyone. It's fifteen degrees below zero and a terific wind blowing, and the night as black as ink. I won't go, that's all there is about it."
"Now look here, Doctor MacTaving and the state of the state of

ish," Sandy Braden said, persuasive-ly, "I know it's a dreadful night, but I have the best team in this country, and I know every inch of the road I'll get you there!"

won't go," said the doctor, in

"I won't gon' said the doctor, in exactly the same tone as before. "And bestes," Sandy Braden went on, as the other stocken, "the little girl is seriously liberor is counting on you. It is now we need you, and you must come. Think of the poor mother—this little kid is all she has".

"I know all that, and I'm sorry for her, and for you, too, but I won't go a step in this storm. Don't waste your breath. Don't you know you can't move a Scotchman? I know my own business best."

own business best."

Sandy Braden controlled himself by

THE next day Dr. Clay wired for the famous specialist, and in a few bours the answer came back to us, and thing, but, mind you, it means a lot few bours the answer came back to us, and this little girl is not good that Dr. MacTavish could not leave the city. Dr. Clay had gone back to Libby Anne's bedside before the message came, and so it was to Sandy what you want and I'll give it to you?" Ho was shaking with the invented that it was delivered. HE next day Dr. Clay wired for suppose you are used to this kind of tensity of his emotion.

MacTavish turned on him with dignity-he was thoroughly exasperated now

"See here," he said brusquely. don't want your money-it's not a matter of money-I won't go out in this storm. Money won't buy me to freeze myself. Didn't I tell you I'm Scotch and canny?" he added, half apologetically.

Sandy Braden's eyes flamed with sudden anger

Sudden anger.

He took a heavy fur coat from a peg in the hall. "Put that on," he commanded. "We will start in about two minutes. The horses are at the door."

Sandy Braden jumped in beside him, took up the reins, and with an "All right, boys, let them go"—they were off!

were off!
All evening Dr. Clay stayed beside
Libby Anne's bedside, soothing her
restless tossing and carefully watching every symptom. Her fever was steadily mounting, and she complain-ed of a pain in her side. Mr. Donald, who like everyone else in the house-hold had been since her illness her devoted slave, came once and stood at the foot of the bed. Libby Anne looked up, knew him, and smiled faintly

Dr. Clay had not mentioned to Mrs Cavers the coming of the great city doctor, for since the storm had risen to such violence he had given up all hope of seeing him; for no one, he thought, could drvie against such a blinding blizzard, even if the train tid get through, which was doubt-

The tent was banked high with snow all round, but the terrific wind loosened the tent ropes partially, and the canvas swayed and bellied in the storm. At the entrance, where the nath came in between two high banks, the snow sifted in drearily, making a little white mound on the floor, like new grave.
Through the roar of the storm came

at intervals the old dog's mournful cry. The lamp on the table, turned low though it was, flickered in the draught, and the storm mourned incessantly in the pipe of the Klondike heater. Through all the other sounds cessanty in the other sounds heater. Through all the other sounds came the rapid breathing of the little girl as she battled bravely with the outgoing tide. Martha and Mrs. Cavers sat on the lounge opposite the

The opening of the tent door let in a sudden gust of wind and snow that caused the lamp to flicker un-



Machinery Has its Advantages

Would such a cosy chat be possible with the old dash churn? Photo taken by a Farm and Dairy representative in Victoria Co., Ont.

The doctor indignantly protested [his outer garments. Mrs. Cavers did Without a word Sandy Braden seized his arm with an iron grip and bundled him into the coat, none too

"You are Scotch, said, looking the doctor straight in the eye, while he still kept a grip of his shoulder. "Well, I'm Irish, and we're the people who hit first and explain afterward." He opened the He opened the door and pushed the doctor ahead of

im out into the raging storm.

The best team in the Braden stable was at the door, impatiently tossing their heads and pawing the snowy ground, ready to measure their met-tle with the storm. "Get in," Sandy Braden command-

Seedy Braden controlled himself by "Get in," Sandy Braden commands an effort macTavish," he said, "we "Doctor MacTavish," he said, "we "Doctor MacTavish," he said, "we may be gone before we get there. 1 line of the men who had been hold best before the country of the country

not look up. Martha turned the lamp higher Dr. Clay, looking up, gave an ex-

Or. Clay, looking up, gave an ex-clamation of delight.

"Doctor McTavish, you're a brick!" he cried, springing to his feet. "I was afraid you wouldn't come."

The great man, warming his hands over the stove, made no reply, ex-cept to shrug his shoulders—he was ooking intently at the little girl's ace. Then he shook hands with Dr. face. Clay gravely and asked about the case. After hearing all that Dr. Clav had to tell him, with an imperative gesture he signified that Mrs. Cavers rolling Scotch voice that has comforted many, "We'll do what we can for the bairn."

for the two women found The two women found their with difficulty into the house, hold-tight to each other as they struggle through the storm. How did it creat city doctor get her? Whought him? Who would brave to the storm? errible storm? were the they asked each other. The see if there was any driver who had brought but the square of light from the chen door revealed only

Storm as it swept past.

Down in the shelter of the best and Braden unhitched his steating horses. With the help of his hern he found a place for them in stable. All night long, as he for the dawn, there was one tin his brain as he paced up an between the two rows of h looked out of the stable the little misty patch of light that n and then flashed out through the star one agonizing, burning thought it one agonizing, burning thought caused the perspiration to run chis face and more than once find to his kaees in an agon prayer. And the burden of his he cry was that the little girl might

Before daybreak the storm away, and only the snowdrifts the night's fury. Sandy Braden squietly up to the tent and looked the beating of his own heart choking him. Dr. MacTay on the lounge, the peaceful a child, or of a man who good work. Beside the bed Beside the bed Clay, watching, alert, hopeful the tent door where he stood he see the little white face on the and he knew from the way the breathed that she was sleeping e with the dawn. Then he went bad the stable, hitched up his team

rove home in the sparkling sunshin Dr. MacTavish woke up soon after and Dr. Clay went into the house ell Mrs. Cavers. She had spent long night by the kitchen freit neighbor in the history was the first of the storm. Me that close beside frei merches me and the great was the first of the first ong night by the kitchen fire li

his own face beaming. "Oh, my dear woman, don't than e for coming," the doctor said laughing, when in broken phrases sheried to tell him what she felt. "New did a man come more against hi will than I. But I had no choice he matter when that big giant and of me. He coaxed me at fire -laughing at the recollection—"the tried to bribe me—I forget what fit ulous sum he offered me—half of it kingdom, I think. I mind he aske me if money were any use to me, h I stuck it out that I wouldn't co until he said he'd break every be in my body, or words to that effect So my dear lady, your good man de serves all the credit—he si bundled me up and brought me believe he swore at me, but I'm not

Mrs. Cavers stared at him uncon

prehendingly.
"Sal, Clay," the doctor went of gaily, "there was a glint in the man's eye last night that made at decide to risk the storm, though I'm not fond of a blizzard. I believe be would have struck me. Where is be would have struck me. now? I like him. I want to sh

(Continued next week)

Water Power I Mrs. Adam 'Alex Ont. is fortun hushand of a m ind wh hand what can ver in his farmin er still. he does no is wife do any w

strive a power bstitute

A list Mr. Alexander's in

lune 6, 1912.



A Refresh How refreshing wa covered bucke of to its displacing people are derivin rashing machine, t

churning the

hopping the meat

was anxious to run ine by power, but hink that was nece The power used one horse power. the back kitchen. nected with this with the necessary ing the washer, w

When it came to



An Old-Fashiones Few of us would ea ld hoist in spite of ions. Eunning wat

Mr. Alexander wa as a meat chopper siderable power ar He now has it are

chopping knife is to the end of the hence develops a Water Power Lightens Labor | with a minimum of speed. On another Mrs. Adam 'Alexander of Halton onto is fortunate in that she has husband of a mechanical turn of does not believe in doing hand what can be done as well by by hand what can be done as well by gover in his farming operations. Bet-gratill, he does not be leve in letting is wife do any work where he can agrive a power arrangement as a A list of operations that Alexander's ingenuity has saved

with a minimum of speed. On another page of this issue will be found a description of how Mr. Alexander does his farm work by water power. And what he finds good on the farm he believes should be applied in the home

#### Dispensing With the Hired Girl

"The scarcity of good servant girls is breaking up the homes of Ameri-ca," writes a despairing gentleman



A Refreshing Draught in "The Good Old Summer Time

How refreshing was the clear, cold water that we drew from the well in the moss covered bucket" in our boyhood days. No other water has ever tasted moss covered nuces: in our coyhlood days. No other water has ever tasted gille so good since. In many places the convenience of water on tap has not tel id to its displacing the old open well. Witness the pleasure these Victoria County people are deriving from the cool contents of the old bucket.

hink that was necessary.

The power used in the house is a mall water wheel developing about small water wheel developing about one horse power. This is located in the back kitchen. A small shaft con-nected with this wheel is equipped with the necessary pulleys for run-ning the washer, wringer, and churn. When it came to the meat chopper,



An Old-Fashioned Water Elevator

Few of us would care to go back to this st in spite of its romantic associa-Eunning water is so much more

Mr. Alexander was almost "stuck," as a meat chopper must develop con-siderable power and yet run slowly. He now has it arranged so that the

staking machine, turning the wring- from Pennaylvania, as though the \$\alpha\$, churing the churn, and lastly, secrant girl were corn or meat, water chapping the meat. Mr. Alexander sus anxious to run the sewing mach- is by power, but his wife did not stone axes were vanishing, and how stone axes were vanishing, and how would civilization go on without them! But civilization wasn't parasitic upon the stone axe any more than the home is parasitic upon the cook. The need was for a new tool to take the place of the old one—a bow and arrow in place of the old one—a as our need today is for labor-saving devices in place of the cook."

The above paragraph appears in a recent magazine article which proceeds to outline some of the possibilities of labor-saving devices. are quoted who have used with great satisfaction, in place of domestic servants, vacuum cleaners, electric washing machines and wringers, gas and electric ranges, fireless cookers, mechanical water pumps, electric heat regulators for furnaces, and other savers of energy.

8AVED \$500

One woman, having discharged her maid and installed in her place a complete labor-saving equipment, writes: "My household expenses have been cut down about \$500 a year, and know of no easier way of saving that amount than by being free from the care and annoyance of a maid. I am surprised to find how small our total for food has been this last year."

Mr. H. F. Stimson, chief engineer the Universal Audit Company, savs:

"At present the amount of physical energy known as a kilowatt hour, which can be purchased in large quantities in the form of electrical mechanical energy for two cents, would cost about \$2.28 if purchased in the form of human physical energy at the rate of 20 cents an hour."

It isn't really so cheap as that, for there is a great difference between the wholesale cost of power, quoted the wholesale cost of power, quoted by Mr. Stimson, and the retail selling price, but, even allowing for that, the money cost in mechanical energy is vastly less than that of human physi-cal energy, apart from all considera-tion of the wastefulness of using the He now has it arranged so that two tool of the wassettance of the chopping knife is connected directly efforts of thinking beings for work to the end of the power shaft, and that can perfectly well be done by unbace develops a maximum of power thinking machines.—Toronto Globe.

### Good to Their Wives

Your wife will do the work even though it kills She is not apt to complain. Don't let her

You love your wife and would not willingly see her suffer. You would not have her work when you can save her and add to her years by a small expenditure for labor savers.

Forty-five farmers near Woodstock, Ontario, have made work easier and more pleasant for their wives by each getting a King Edward Vacuum Cleaner, which is made in Woodstock. Many other farmers in Canada have similarly done their duty by their wives.

#### The Greatest of Labor Savers



A Boy Can Operate It

#### **OUR GUARANTEE**

If after you have used our King Edward Vacuum Cleaner for 10 days, and it is not satisfactory, or you know of any Vacuum Cleaner you like better, we will refund your money. FREE TRIAL OFFER is made in this dvertisement to Farm and Dairy

In house work is the Vacuum Cleaner. It will save all sweeping, all dusting after sweeping, it will get all the dirt, and by using it once every 10 days it will save your wife endless hard work and keep your house clean and sanitary.

The Vacuum Cleaner ought to be used every week or ten days. Then carpets are clean, sanitary, healthful and safe for your children to play on,

It has been our experience that one must first use a Vacuum Cleaner to understand fully how valuable and indispensable it is in house work. We are therefore willing for you to try it for 10 days free.

Once use the King Edward Vacuum Cleaner and you would not do without it any more than you would part with your selfbinder.

The King Edward Vacuum Cleaner is the lightest of all vacuum cleaners to operate; it has the strongest suction: it

costs less money; one person can operate it easily; it is the simplest in construction; it is the strongest-has nothing about it to get out of order, and if properly used will last a lifetime. All of these points we will let you prove.

#### FREE TRIAL FOR TEN DAYS

We'll send a Ring Edward Vacuum Cleaner to any home where Farm and Dairy goes. You can try it and if it does not suit suit you send it back at our expense, If you like it and keep it, then pay us for it. The price is \$20.00.

Think what a joy this vacuum cleaner will bring to your wife, your mother, or your sister for whom you get it. There'll be no more carpets to lift; no more rugs to beat; and the endless daily work of sweeping will be done away with.

Write for free catalogue and opinions of satisfied users. Names and addresses given so that you may write them personally. Special induce-

Have us ship your machine now so you can try it and know what work it will save your women folks in hot weather when they most need it to keep the house clean and save their strength.

GEO. H. KING CO. Limited, Woodstock, Ont. Reference: The Traders Bank of Canada, Woodstock, Ont.

A Gallant

GHALLENGE WATERPROOF GOLLARS

Save you money

Stop all laundry troubles. "Chal-lenge" Collars can be cleaned with a rub from a wet cloth-smart and dressy always. The correct dull finish and texture of the best linen. If your dealer hasn't "Challenge" Bra write us enclosing money, 25c. for coll 50°, pe. prii for cuffs. We will sur you. Send for new style book.

THE ARLINGTON CO. OF CANADA

54-64 Fraser Ave., Toronto, Can.



out where the light can fall on it-and see the brilliant, diamond - like sparkle the pure white color, of every grain.

That's the way to test any sugar - that's the way we hope you will test

Lawrence Sugar

67

Compare if with any other sugar—compare its pure, white sparkle—its even grain—its matchless sweetness.

Better still, get a 20 pound or 100 pound bag at your grocer's and test "St. Lawrence Sugar" in your home.

THE ST. LAWRENCE SUGAR REFINING CO., LIMITED, MONTREAL,



New Perfection It Burns Oil -No Ashes Oil Cook-stove Concen-

It concentrates the heat when you want it and where you want it. It is as quick as gas, steadier and handier than coal, cheaper than trates Heat
-No Waste It is Handy -No Dirt

It is Ready

-No Delay

steadler ams resemble delectricity.

The New Perfection Stove has long, enameled turquesie-blee chimsers. It is handsomly finished in nickel, with the chimser is done there are racks, etc. Made with 1, 2 or 3 benere. All dealers carry the New Perfection Stove. Free Cook-Book with every stove. Cook-Book also store to savene sending 5 cents to cover mailing cost.

THE IMPERIAL OIL COMPANY, Limited

Plan for Convenience
Mrs. C. L. Osgood, Ontario Co., Ont.
What a tremendous amount of time
we women folks are called on to waste in houses inconveniently planned! There is no getting around it, the great majority of our country homes were planned too much with a view. were planned too much with a view to show and too little with an idea of getting work done with the least of getting work done with the least not be a least that we allowed the men to do the planning accounts largely for this. The house they have produced are certainly a first-class line of women killers. My grandmother's house, that I have any distinct remembrance of, was an excellent example of this style. The rooms were all unnecessarily large. The sink was at one side of the kitchen and

all unnecessarily large. The sink was at one side of the kitchen and

No "Fish Story" About This

Master Sam. Thorne has the evidence right under his hand. And he caught three more trout weighing one pound each the same day. Sam. is a son of Wm. Thorne, of Norfolk Co., Ont.

the stove, consequently the hot water, at another. The woodshed was dir-ectly behind the kitchen, and to get wood we had to go down six steps. To wood we had to go down six steps. To get down cellar, where was kept every-thing perishable, we had the choice between going the full length of the 20-feet living room before we reached the cellar stairs, or to go outside, down four or five steps and hence into the cellar through the outside en-trance. When we consider that we had to make a trip down cellar half a dozen or more times a day, think of the labor involved.

A little more headwork A little more headwork used in planning that house would have saved the women in it all kinds of labor. For instance, if they couldn't have the running water at any they could at least have had the sink right near the hot water tank on the at least have had the sink right near the hot water tank on the stove. The woodshed floor should have been built up to the level of the kitchen mor, and above all, the cellar door snould have been in the kitchen. I nave just mentioned a few of the ponise, that might be improved. Anyone, by string the matter, little thought. that might be improved. Anyone, by giving the matter a little thought, might easily make plans whereby many old farmhouses in the country might be rearranged slightly to greatly reduce the work of the housewife.

WHERE THE CROPS NEVER FAIL

A Good Country to Farm in A Good Country to Live in A Good Country for Business

Central Alberta CANADA'S RICHEST MIXED FARMING

COUNTRY Write for information to the Secretar of Central Alberta Development League EDMONTON, ALTA. Ask for pan Ask for pan

Tonight Plan whom you wa

1 Steward Hartiton 11 HARTSHORN SHADE ROLLERS Bear the script name of Stewart Hartshorn on lei

#### THIS WASHER MUST PAY FOR ITSELF.

machine.

I Rober it will weak a tub full of very Library and Libr

Address me this way— G. I. Bach, Manager 1900 Washer (0, 367 Yongs St., Toronto, Ont.

R. E. Gunn, Ont We farmers talk over. But do we portant section of ation at all? I the thout three good any man dare nest about these th boss' sees what's vot get them. Haven, to supply all t nces for the cook t It takes but little g water in the h to put it in the ba y farmer today t of if he does not hav t much to instal closet, a br en, which certainly her tedious, mon man had to get th for 365 days in a y 365 holes in as ma ame time, and sew nothing ab



A Foster Mother f A Foster Mother f Mr. Clair Davis, a re-fair, in Welland Co., is this picture wrote was a neighbor's cow o nised this lamb. The law the cow about an out from amongst all of the herd. washing the

meeted to be enterts all the time, he we and quietly pass away hings, and then ans such to get the wife ne that doesn't ru ight, a washing n ake, a kitchen cabi ne, and a decent sto water boiler, sa ons if she has not alr I honestly think th armer thinks mrs. and comforts before inself a whale of a akes his wife to the or prayer meeting on If I am far wrong, Ma rected, but not cor ...

Two Machines V Mrs. P. Stevenson, E My husband has bee wing implements for sars, but it is only realized that there implements of the firs ratively cheap that the household. I man that much-despised from house to house when you are busy,

This particular sale ome along our wa and I was in a rush, He had three or four rig, and he jumped r PB

in

ta

#### A Gallant Farmer

R. E. Gunn, Ontario Co., Ont. We farmers talk much of farm wer. But do we consider the most portant section of the farm organion at all? I think no. I know ill well that I wouldn't go very far thout three good square meals a y, and I would make as much russ any man dare (it's well to be sest about these things for fear the loss" sees what's written) if I did of get them. Have I not a right, n, to supply all the saving contri-

nces for the cook that are possible It takes but little more to put run-ing water in t'ie house than it does sing water in the barn, where nearly early farmer today thinks he is badly early fair he does not have it. It does not est much to instal an inside water field closet, a bath and proper state, which certainly help the mother her tedious, monotonous work. If days in a year, mend about 65 holes in as many socks in the ame time, and sew on more buttons, say nothing about making the



A Foster Mother for the Lamb

A roster mother for the Lamb
IX Clair Davis, a reader of Parm and
hir, in Wellaud Co., Ont., when he sent
is the picture wrote that the animal
us a neighbor's cow on which had been
used this lamb. The lamb would folwise the cow about and would pick her
ut from amongst all of the other ogwe
(the heef

dothes, washing them, and still be expected to be entertaining and cheer-fal all the time, he would draw a sigh consists and the consequences are the consequences and then answer if it is too much to get the wife a sewing macheo that doesn't run like a dead reight, a washing machine of good take, a kitchen cabinet if she wants are and a deepnt store with a good. se, and a decent stove with a good-ised water boiler, say 30 to 60 gal-es if she has not already got one.

I honestly think that the average er thinks first of the convenience farmer thinks first of the convenience of his barns and his own conveniences and comforts Lefore his wife's wants eter his head. Then he considers himself a whale of a good fellow if he take his wife to the fair, exhibition, or prayer meeting on Thursday night. If I am far wrong, Mr Editor, I stand rected, but not convinced.

... Two Machines Worth While Mrs. P. Stevenson. Brome Co., Que. My husband has been talking labor-

fring implements for the last 15 tears, but it is only recently that I realized that there are labor-saving implements of the first order and comimplements of the first order and com-paratively cheap that can be used in the household. I managed to get my first implement of this kind through that much-despised man who goes from house to house and worries you when you are busy, the travelling

This particular salesman happened to come along our way on wash day, and I was in a rush, I can tell you. He had three or four machines on his rg, and be jumped right off and of- lawn.

fered to do my washing for me. Of course, I did not take him seriously, but he was insistent. He did not ask me to put up any money at all; just to try the machine. So I did.

A THOROUGH TEST

It was wonderful how that rotary It was wonderful how that rotary washing machine did the work. First I put in the coarse pieces of my washing, as I was perfectly certain that even they would get rough usage. But they did not. They came out better than when scrubbed on a washing board. So I tried some finer pieces. Now, after a year's use, I do not consider anything. sider anything too fine to go into the machine. Of course, we bought it. Another machine since adopted that

Another machine since adopted that I value highly is my bread mixer. That came as a Christmas gift from my two sons, and it was a Christmas blessing. All that I have to do is to blessing. All that I have to do is to put in the proper ingredients, and time my operations so that the crank is ready to be turned just as my husband comes along. Instead of pound-ing and kneading dough as I used to do by the hour, all I have to do is to stand and see him do the work The bread is just as good, and all the labor is omitted. An expenditure of \$20 for these two machines has saved more labor and done more good than any \$100 that can be invested in implements on the farm.

#### ... We "Cook with Gas"

Mrs. John Davis, Ontario Co., Ont. "Cook with Gas." I suppose we had seen that bill-board advertisement every time we have gone to town for the last two or three years. the last two or three years. It always looked nice to me as I thought of our big hot range in our kitchen at home, but I always passed by gas cooking as a blessing for the city people but one that could never reach the country. Last spring, however, as I looked to spending the summer in a kitchen in company with that hot range, I really got desperate and derange, I really got desperate and decided that something had to be done.

And then the words of that bill-pard advertisement, "Cook with board advertisement, "Cook with Gas," came to me with new meaning The inspiration was quickly followed by the purchase of a three-hole gaso-line range, and the summer was spent in comparative comfort. I don't know where the heat went to that boiled water and cooked meals, but it cer-tainly did not come out into the kit-chen. My husband now declares that the kitchen is one of the coolest rooms in the house.

I can cook anything in any amount and faster on the gasoline range than with wood or coal. It is much easier to fill the tank with gasoline occa-sionally than lug coal or fire wood into a stove. And then there is not so much trouble in keeping it presentable; we just wash ours. No black-ening and polishing in the summer time at our house! We consider our time at our house! We consider our gas range one of the best investments we ever made.

#### Spots on Lawns

For various reasons many of our lawns look patchy at this season of the year. Where the grass has died out, the land should be manured with rotted manure, and spaded deep and thoroughly; then raked fine, and a lawn mixture of Blue Grass, Red Top lawn mixture of Blue Grass, Red Top and White Clover sown. Various mix-tures are recommended, but as good a one as any is made up of 42 pounds of solid Red Top, and five pounds of White Clover an acre. The Red Top and Clover germinate quickly, and later give way to the slower-growing but more serviceable Blue Grass. Sometimes a little black earth scat-tered over the bare places, and grass seed sown in it, will soon give a good



### Is Your Horse Lame? -

Fleming's Spavin Cure (Liquid) cures the lameness and removes such blemishes as are soft to the touch-Bog Spavin, Curb, Thoroughpin, Capped Hock, Collar and Shoe Boils, and recent cases of Splint and Bone Spavin.

Fleming's Spavin and Ringbone Paste cures Bone or "lack" Spavin, Ringbone and Sidebone.

These remedies do not always cure—but we'll refund your money These remedies do not always cure but we leave you can find—every time they fail. Try them on the worst cases you can find—we'll stand behind them, as we stand behind all Fleming's Remedies.

Fleming's Tonic Heave Remedy a remarkable tonic, which cures Heaves because it puts the system right.

Fleming's Colic Cure will surely cure it

anything can.
Fleming's Lump Jaw Cure—the first successful Lump Jaw Cure-to-day the standard treatment.

FLEMING BROS., Chemists, 83 Church Street, Toronto,



ook in its line.

overs over 10

### International Poultry Food

Prevents Oholera and Saves the Little Ohicks

tle chick is just like a little baby...its health depends on its food. Improper feeding the way for disease. Chicken Cholera, Roug, Apoplexy, can be prevented and cured diling INTERNATIONAL POULTRY FOOD.

By themse had Cholers and it some of their counts were turning black.

By indians had Cholers and it some of their counts were turning black.

By indians had Cholers has left my premises—J. F. BARKET.

Give all your chickens a daily feed of "international." It keeps them well-fattens up the country of "international." It keeps them well-fattens up the country of t

25c., 50c. and \$1.00 a box. At dealers everywhere. Write for free copy of our \$3,000.00 Stock Book, the greatest book ever written for farmers.







### **OLD COUNTRY** DOMESTICS

Capable Scotch, English and Irish maids. Also Danish girls. Parties arriving weekly.

Apply now. The Guild, 71 Drum-mond Street, Montreal or 47 Pembroke St., Toronto.

Straight Talk and Honest

Mrs. C. Keillor, Wentworth Co., Ont. "Yes, sir, I call it criminal. It's a "Yes, sir, I call it criminal. IVs a downright shame. Why, that woman over there is young. Had she nived in the city instead of the country she would be most pleasing to look on, the pride of her husband and family.

I looked up to see about whom these two men, who sat behind me in the rail-way carriage coming out of Toronto, were talking. Just a few seats further on was the object of their rerarther on was the object of their re-marks—a country woman with numer-ous parcels and two small children. My attention was then called back to the travelling men, for they had

continued their conversation

SOME SAFE GUESSES
"I Let she wrings out her clothes on wash day Ly hand, kneads the dough wash day by hand, kneeds the dough by hand on bake day, and considers running to an outside pump for water several times a day a necessary part of her life," said the second man.

women gradually come to be satisfied to get on with the merest kind of household equipment because we have never known any better. With this woman, however, it was different. She knew the things she should have, but made the mistake of not regarding them as obtainable. And here she was worrying her life away for things her husband could well afford.

AN UNSATISFIED DESIRE "I always kind of wished we could have a Lathroom in the house," she said with a sigh. "I have wanted it more since the children came. But just as I thought that we were going to have one John then thought that he needed a new horse to assist on spring seeding, and the \$200 went for that horse

"That has always been the way When he got his new binder two years ago, I told him that the next expenditure must be for a washing machine for myself, but when he came back from town he had on his wagon a

#### HOMEMAKERS TOO, ISHARE IN THE BLESSINGS OF IMPROVED MACHINERY

When I left the farm myself labor. When I left the larm magest about the only thing we did not ride on was the harrow, but now I see that even behind the ordinary drag harrow they have a little carriage and seat arranged. I have no quarrer with farmers over that. I do not do any more work myself than I have so. But why in thunderation are they not equally considerate of their wives?"

And so the conversation continued

I slipped back and sat down beside that little woman, and we had a talk. In that conversation came out many of her trials and unsatisfied desires. I have found that most of us country

"Too many of them do," spoke up groot pulper that he absolutely could traveller No. 1. "These farmers are not get on without. Why, it is only anxious enough to reduce their own within the last three or four years not get on without. Why, it is only within the last three or four years that we managed to get a sink in the house. We kept house for five years before that without one. John says that we should spend money where it will make more money, and I sup-pose he is right."

MONEY VERSUS HEALTH
But was he right? From what I
could gather from this woman's conversation they were well-to-do farmers. The inference was plain. John considered a few dollars added to the income through the expenditure of labor-saving machinery for the farm was much more important than conserving the energy and strength of his wife and the mother of his children. This is a tragedy, a kind of tragedy that has been worked out in every section of our country.

If any of my readers doubt that farm women are overworked, just attend a meeting of women in the country, notice carefully their faces, and then hustle off into town and make some comparisons. It seems only right that our men should keep us women as well supplied with laborsavers in the house as they do them-selves on the farm.

#### My Electric Iron

Mrs. J. Steel, Carleton Co., Ont. We didn't think of anything but we didn't think of anything the electric light when the wires were running past our home. Now we find that one of the greatest blessings of an electric current is that we can iron by electricity.

Our electric iron cost us \$5. A few minutes before starting our week's ironing we simply connect the

#### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* The Sewing Room

Patterns 10 cente each. Oder by a mumber and size. If for children give age; for adults, give but a measure for waiste, and want measure for skirts. Address all orders to the Pattern Department.

GIRL'S EMPIRE DRESS. 7430



Frocks that made style are tle girls and are a coming For

will be needed 2 3-4 yards of material 27. I vards 5 114 yards yards / banding and 3 3-4 yards d shown view: flouncing wide yards 4 inch yard of material

inches wide to make as shown This pattern is cut in size for girls rom 4 to 8 years of age.

#### COMBINATION BUST CONFINER AND CORSET COVER, 7435



This corect er is very simple yet perfectly prac-tical. There as fronts el two ly fitted and two that are slights full, and the faller once are ranged over fitted ones, or fitted ones, come quently the come cover can be wen beneath a thir

material 11-4 yards 44 rds of beading.

wide with 21-4 ya ches wide with 214 yards of beading is yards of edging, and 114 yards of inse

42 44 and 46 inch bust measure

#### SEMI-PRINCESSE GOWN, 7036



The simple gon that is made it semi-princesse is practical and us ful and exceeding fashionable one can be made illustrated, with fancy collar and e bow sleeves, or a can be finished sil a neck-band at with long sleeres it shirt waist style.

material requisition of the medium as is 7 yards of marrial 27 inches was 5 1-2 yards 36 of 14 yards 44, with 3 yard 27 inches with for the trimming This pattern is d in sizes 34, 36, 42 and 44 inch

iron by a wire with the current, as iron by a wire with the current, as in about five minutes' time we as start ahead and iron all day if se be. The iron never gets cold. The is no trouble looking after the is Naturally, one can do a better if than with the old-time flat iron. I would addies all who have read would advise all who have or can p-the current in their house to get a electric iron. It lightens labor.

BE ORMSTOWN SAI of the most atte disposed of at Or # 14th. In his d ring in Farm and I fr. Gilbert McMilla But he pot a few days in the fiet of Quebec and in ends that will have o and he can endor an has said in pre-pere are several re-buyers of Ayrsh e buyers of Ayrsh desdales should att first piace the Bear elf is well worth a ger could not get w sale at Ormstown k in the country s of a few miles.



A Heifer Finlaystone Bonnie 1 June 14th, for a to an alert, vigorous r of the first order. a short time befor

ted, and those that a m herds that have alw he Holstein offering one, the animals of produci s under the hammer s breeding as the t ished world records at Ottawa last win desdales have long all of the leading nice ones were in brief summary of iven, as the offerin first inspected the e first inspected the an. One of the a-ring is Miss Hall, a p and strong, with a teats. Mr. Logan 1 p and strong, with s reats. Mr. Logan h fres for this cow, but the sale. This is the all of the breeders, set to make this sale is All of Mr. Logan a deep milky kind, an at offered will make

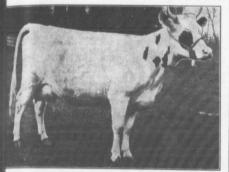
few minutes' drivin farm of James Bry away, but we took a les and inspected 1 few in his consignn stylish animals in four daughters in d, good cows. Anoth ring is a two-year-ol August, a strong, stly white.

herds of Hector Go the show ring, and in Mr. McArthur are paske this sale a strain in the stable of



teta

If ORMSTOWN SALE OF LIVE STOCK the of the most attractive of live stock he of the most attractive of the most attractive of live stock he of the most attractive of the most attractive of the most attractive of live stock he of the most attractive of the mo ME ORMSTOWN SALE OF LIVE STOCK tracted particular attention



A Heifer that would Attract Attention in Any Company

Finlaystone Bonnie Maggie, in the consignment of R. R. Ness to the Ormstown June 16th, for a two-year-old is a dandy. She is wonderfully deep and full as a slert, vigrous carriage. She gives promise of being a show cow and pro-of the first order. Mr. Ness expects to hear great things of her. She calved a short time before this photo was taken. Photo by an editor of Farm and Dairy.

se effered in the sale are tuberculing and those that are not tested are abeed that have always been healthy. It is foring is also an attraction, the animals offered being from greatest producing strains of the several of the Holsteins that under the hammer are of much the breeding as the two cows that es-hed world records for the three-day sized world records for the turee-day at Ottawa last winter. The Quebec dedales have lone been well known all of the leading shows, and some paice ones were inspected. Only a prief summary of cur visit can here given, as the offerings were well covin previous issues.

in previous issues. first inspected the herd of J. W. an. One of the attractions of this ing is Miss IIIall, a fine showy cow, and strong, with square udder and totals. Mr. Logan has received good for this cow, but he will hold her be saic. This is the spirt displayed to the horders. They are detailed the said of the All of Mr. Logan's animals were kep milky kind, and any one of the offered will make a good buy for

few minutes' driving brought us to farm of James Bryson. Mr. Bryson fer minutes' driving brought us to farm of James Bryson. Mr. Bryson away, but we took a trip through the se and inspected his stock. The ow in his consignment is one of the stylish animals in the country. She four daughters in the stable, all it, good coss. Another feature of this log is a two-year-old helior calving the stronger of the stable, all any straight animal.

taken. — Photo by an editor of Farm and Dairy.

| Pan, the champion over all breeds at Chicago last year, and the greatest Ayra-shire show built in the world. Mr. Ness is also offering some nice imported year, and the state of the state of

The pick of the offering of Mr. Cravers The pick of the offering of Mr. Cravers in the control of the offering of Mr. Cravers in the country. She four darkers in the catable, all the control of the control of the control of the catable days. A substitute of the catable days. A substitute of the control of the catable days. A substitute of the control of the catable days. A substitute of the control of the catable days. A substitute of the control of the catable days. A substitute of the control of the catable days. A substitute of the catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days. A substitute of the catable days are catable days are catable days are catable days. A substitute of the catable days are catable days are catable days are catable days. A substitute of the catable days are catable days ar



### The Underwood

is the result of concentrated ef-

fort to achieve the ideal. It embodies in one machine all that is of value in a typewriter.

> A WONDERFULLY efficient organization, the highest inventive genius, a capital of fourteen million dollars-all are constantly focused on this single objective-the production of one perfect writing-machine.

THE Franklin Institute, in awarding to the Underwood the Elliott-Cresson Medal for "ingenuity, skill and perfection of workmanship" say in their report-"We find in Underwoods having more than five years' usage, no detrimental wear."

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FARM AND DAIRY, Peterbore, Ont.



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For Barns: Corrugated Steel Siding and "Rastlake" Metallic Shingles make a barn absolutely fire, lightning and weatherproof. For Houses; Metallic Rock Paced Stone es Brick Siding will give your house the appearance of a stone or brick dwelling. It is easily and cheaply applied and very durable, "A 25-year actual test" has proven "Rastlake" Shingles the best roofing. All about the permanent roof you want is told in our ardiatie free booklet, "Rastlake Metallic Shingles." Write for it now."

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#### Holstein Fema Bull

of Proven' Value, I am consigning to the

### Woodstock Sale, June 12-

THESE cows are all in calf to Sir Homewood Aagie De Kol, 11,429, a son of Lady Aagie De Kol, 27.2 lbs. b twice champion of Guelph Dairy Test, 1908 and 1909. Note the breeding of these young cows. Then you will come to Woodstock and buy them.

Dorlice Myrtle De Kol-as a 2-year-old 61.5 lbs. milk in

day; 418.5 in 7 days; 17.54 lbs. butter. Lena Josephine De Kol 2nd—four years, 512 lbs, milk in 7 days, 19,18 lbs. butter; gave over 14,000 lbs milk last year in eleven months. Her last two calves wer females. What will her next

Mary Nogi De Kol-14.92 lbs. butter as a 2-year-old; 57.3 lbs. milk in

Two others closely related to Netherland Mottles' Daisy; as a 2-year-old in 1 year, 12,566 lbs. milk, and after giving 12,000 lbs. milk, made 2-year-old) in 7 days, 10.67 lbs. butter.

Sir Midnight Pasch-a young bull whose dam has given 13,555 lbs. milk in 7 months, and is still going over 50 lbs. a day.

These cattle are amongst the best. Come to the sale and buy them

W. B. Poole: Salford, Ont.

and One THE ORMSTOWN SALE OF LIVE STOCK heifer has been bred to P

(Continued from page 25)
McCready of Howick is of Fring some good accready of Howick is of ring some good useful animals that will soon pay for themselves as milkers. The pick of the offering of J. J. Tannerhill of Kensington is Baroness Mercedes 2nd, a sweet-looking four year-old that would look good in any four-year-old that would look good in any company. A photo appears elsewhere in this issue. Maud of Riverview, also four this issue. Maud of Riverview, also four this season of the sea

their herd bull Inferno of Beith, bred by Neil Sangster. We inspected a dozen or more of his calves, and they would have

m.re of his calves, and they would have been a credit to any sire. His dam was a full sister to Sampster's record-braking cows. Mr. Hoven is offering some uice cows. Mr. Hoven is offering some uice. Mr. Sampster's offering will be a choice one. He hast got a poor animal in his herd anyway. The two illustrations appearing elsewhere in this issue, one of his herd bull and the other of Rhoda's the company of th Queen, the world's champion milk produc-er at a public test, will give an idea of the kind of animals Mr. Sangster breeds. The pick of his offering is Rhoda's Queen 2nd, a daughter of Rhoda's Queen. Mr. Sangster expects this heifer to make even record than her dam

bull of the Korndyke, a bull of the most ing. Other females that she missed are Madame Dot a The first one mentioned was of any breed to qualify in years in succession. Sally years old, is the highest test for Holsteins, she producing lbs. of 4.015 per cent. milk year-old. Space forbids a more description of this consignment can assure our readers the

We would call Farm and Da attention to an error in the logue. The Ayrshire numbers instead of 31. Consequently with mal is referred to by its car ber read one backward from given. This applies up to 74, Pan is given a number instead only used as a reference. Als steins are at the back of the whereas they were intended to

#### WORLD RECORD AYRSHIRES AT

AUCTION
Tuesday, June 18th, is a date to who are interested in Ayrshire should mark on the calendar a free from all other engagements. On a date the famous Ayrshire herd of A Turner and Son, Ryckman's Corner, Out will be sold at public auction. In the sale will be offered more record-break Ayrshire producers than at any presi-Ayrehre producers than at any presisale in the history of the breed. For years Mr. Turner has been working a pedigreed stock, and he would not be selling were it not due to recent film in the family.

in the family.

Among the choice females to be diese
is Scotland Princess 2nd, holding the fais Scotland Princess 2nd, holding the fadian record as a four-yar-old win ig,
50.5% lbs. milk and 811.7% lbs. fat, arms,
150.5% lbs. milk and 811.7% lbs. fat, the
Canadian record of 11.77.5% lbs. milk at
Canadian record of 11.77.5% lbs. milk at
Canadian record of 11.77.5% lbs. milk at
This is a wonderful cow, with a diagram

This is a wonderful cow straight lines, and she is yearly impre-ing. Mr. Turner believes that as a m ture cow she will establish a world's

Jemima is another choice one. Royal Monarch. In one month she gas 1,140½ lbs- of milk testing over four pe-cent. She is a wonderful breeding or having two daughters qualified in the cont. Size is a woncerru breesing, having two daughters qualified in Record of Performance test, and a hof hers won the three-year-old test Ottawa last January. Jemima of Spbank, another daughter, held the Calan two-year-old record in 1986.

Briery of Springbank is a truly did cow with strong constitution size, a shapely udder, and as a and milker is hard to beat. She for in October, and is still giving 56 She promises to make an Briery 2nd of Springbank, the two-year-old world's record, daughter. Briery 2nd is also o the sale, and one would have to long piece to find her equal. She is a most approved dairy type, with udder, large tests, and a wond stitution. In 365 days she pre stitution. In 365 days she pro 131.25 lbs. of milk and 520.49 lbs. establishes a world's record b comfortable margin. She has given day 73% lbs. of milk. Last ye value of her milk wholesale was 8

Space does not permit of telling many other fine things that Mr. offering to those looking males Practically all females have either been tested or are at running in Record of Performan producing ability that people wat days, and Mr. Turner's cattle his ability in a more marked degree any other Ayrshire herd in the wo The male offering is worthy of a Lessnessock Forest King is an except Leasnessock Forest King is an exect-ally good individual, and is backed the right kind of breeding. His & Leasnessock Jem, is a model of Arrie type, with a straight strong back, a sprung rib and a shapely udder large teats. She has a record of 9.98 of milk in 40 weeks as a fouryest-lessnessock Forest King has also mad Lessnessock Forest King has haso name for himself in the show yat Sir Walter of Springbank, bot dividuality and breeding, is fit any herd in America. His dan flake, has a record of 12,615,1 lbs. and 556.79 lbs. of fat, average (Continued on page 39)

BOYER, May 26.—The sles in Kent County, ship of Dover, which ship in the county, their like We grow on an a Se bushels of good hard thout husking.

"I want to Tell You a Big Secret of Building"

#### DEAR FRIEND:

I am sitting here at my desk, thinking how I shall write many people. I am an old man now-70 years old. 50 long years of my life were given over to making a perfect roof for any kind of building (for everybody has to use roofs), and the right roof works day and night to help a man's daily work.

A roof on a building is the weak link in a chain. Good foundations and good timbers rot-good products stored under a poor roof are spoiled because the roof doesn't protect. I want to stop that big waste. After years of work, I now know how to do it.

I worked for a long time to get a roof that could be easily laid by anybody. It had to be neither too heavy nor too light. It had to be smooth and clean. It had to be a real water shedder, no matter how long it was laid. It had to be proof against ice, snow, lightning, sun and time.

My Oshawa Shingles are the result. worked for years to find a metal that wouldn't rust. I worked on an iceproof lockjoint. I have a shingle to-day that is the best ever put on the market. People buy it from me all around the world, it is so good. These people see how worth-while a good roof is.

I know my Oshawa Metal Shingles so well,

and anybody can lav a roof in them so well and easily, that it makes the safest and best roof you can get. But I

have a new 100-year metal now. My Oshawa Shingle is Perfected. A 100-year roof is a mighty good article-far better than even old-style, handshaved cedar shingles. I know my roof is four times as good-and it won't burn.

Not only that-when you get a roof, get the best you can find. Here is fireproof and lightning-proof protection for you for a century. Yet the roof costs a common, every-day price.

My "Roofing Right" book lets you dig down into my Oshawa Shingle proposition. I want you to send for it. You can get all the facts. Even if you do not use my roof this book is worth money because it gives valuable building hints. My Oshawa Shingles are on the best and most modern buildings. These are pictured in the book. You can get it for a postcard. Send that card to-day. My book will help you in your plans.

Yours truly, 9. A.R.



322

### The PEDLAR PEOPLE Limited, of Oshawa

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ou promptly and save you time.

----OUR FARM annes sees anne NOVA

BERWICK, May 25. e had a very dry se ere not good, and ing, or ought to b ring. This spring l ends of dust follow conds of dust follow atterly we have had tith succeeding days has keeping the gro or seeding and plant een warm and agree while everything is re-complaint to the R with regard to a dan at Berwick, they at co-matter, sending inspe-



The heifer here illi asington, Que., is a ong back, long even a disadvantage, the

rad, and without mor part they ordered the to put in an electri-warm people of a tra-few rears ago Clyde-few and far between, tast replacing the lig E.W.B.

RICHMOND (

DANVILLE, May 25. re had very wet wea have heavy wet land to get their seed in. and the grass is fair. uply of young foals ring. Small pigs arras seed, 810 to 812 a

ONTAR CARLETON C BRITTANIA HEIGHTY searly completed. Q

M: oats, 58c; eggs, 2 Sc. Veal is a little bri nee. Beef is scarce at Fork light, \$14.—J. D. LEEDS CO. GANANOQUE, May

petty well along with be big rain came, but bout 10 days. Very ! frices are high, pork s bes, \$1.80 a bag; hay sgs, 20c; butter, 27c.—

good deal is sold for set it to fatten cattle We ds of cattle each win

### corn growing states of the West.—W. H. Stacey. OUR FARMERS' CLUB

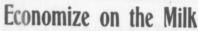
Correspondence lavised NOVA SOCITA

DERWICK, MRS 20.-W. S.

BEWICK, MRS 20.-W. SER

BEWICK, MR

NIPISSING CO., ONT.





Raise Healthy Calves Like These

RAISE THEM WITHOUT MILK

You can do it with

### CALFINE

"The Stockman's Friend

Now that milk is so high in price and sells so readily, it will be wise to feed Cailine and sell the milk.

Caline has given excellent results wherever it has been tried. It is now in use on some of the largest and best equipped farms in Canada.

It will only you to try Caline. Ask your dealer for a 100-lb ag of Cailine as a trial. You will soon be back for more. If your dealer poos not handle it write us direct.

NOTICE:—
If you would like to try Calfint, and cannot secure it from your dealer, send us a money order for \$2.75 and we will ship you like libs, as a trial and pay the freight on same to any station in Ontario south and east of Sadbury.

Compare this price with that asked for other calf meals. (Surely ours is worth a trial).

Paging instructions will be sent each reader of this paner who

ly ours is worth a trial). Feeding instructions will be sent each reader of this paper who applies to us for them. Write us to-day and learn how to raise your calves at much less expense than it has been coulding you in the past. Your spring calves will do fine on Califine. Remember Califine is made in Canada. You pay no famor price for it like you do for calf meals of foreign manufacture. There is no dute to any when you how Califine.

no duty to pay when you buy Calfine

BUY CALFINE and try it on those new-born calves of yours.

It will pay you big to use Calfine for them.

DO IT NOW

Canadian Cereal & Milling Co., Ltd. TORONTO, CANADA 

The heifer here illustrated, Baroness Mercedee's 2nd, owned by J. J. Tannerhill, smington, Que., is a show heifer as well as a producer. Notice the straight, mora lack, long even quarters and the shapely udder. This heifer here appears is disadvantage, the photo being taken when she was empty. When seen to adutage she is hard to fault. She will be sold at Ormstown on June 14th.

—Photo by an editor of Farm and Dairy.

nad, and without more complaint on our Olds. This company will be all part they ordered the Railway Company is put in an electric bell, which will are proposed a train's approach. A fee years ago Clydesdale horses were sand for between, but now they are hat replacing the light draft horse.—

We like Farm and Dairy, It we like Farm and Dairy, It was the complex of the company of the company of the company will be all the farmers of the farmers of the farmers of the farmers of the company will be all the farmers of the farmers

RICHMOND CO., QUE. DANVILLE, May 25.-For two weeks we have had very wet weather. Farmers who are had very wet weather. Farmers who are heavy wet land find it impossible opt their seed in. All cattle are out at the grass is fair. There is a good upply of young foals in the country this tring. Small pigs are scarce, price \$3. ring. Small pigs are scarce, price 33-nas seed, \$10 to \$12 a bush.; butter, 25c; rs. 18c.-M. D. B.

ONTARIO
CARLETON CO., ONT.
SRIPTANIA IEGGHTS, May 21.—Seeding
a searly completed. Quite a number of
ass seacous were killed. Hay, SI to
fil. oats. 56c; eggs. 25c; butter, 25c to
2c vai is a little brighter at 6c by caruse. Beef is scarce at 15c a 15. for hinds.
Pork light. 814.—J. D.

Privil light, 514.—J. D.

ANOUUE, May 25.—Farmers were gesty well along with the seeding when the best rain came, but have been delayed bout 10 days. Very few have finished, rices are high, pork selling at \$0; potable, 518. a bag, hay, \$15; coats, \$0e; etc. 30; LH C. H. C.

gen Se: butter, 2fc.—C. H. C.
SUFER, MAY 26.—There are some corn
sile in Kent County, but in this townsile in Kent County, but in this townsile of lover, which is the best townset to the county, there is not one coin
30 bushels of good hard corn to the acre.
Had deal is sold for seed corn, but we
did it of fatten cattle just as it grows
should be sufficiently the sold of the seed of the
sold of cattle and winter and have beg
uning with the cattle as they do in

ad, and without more complaint on our Olds. This company will be able to pay at they ordered the Railway Company the farmers more for milk and cream put in an electric bell, which will during the summer months than they meeting the armer and the summer of the summer o

We like Farm and Dairy. It is a welcome guest every week.—James Seymour, Victoria County, Ont.

The Oxford District Holstein Breeders Club Will hold their first

NOTICE ...

### Auction Sale of Registered Holsteins Wednesday, June 12th

In the Curling Rink, City of WOODSTOCK, Ont.

Commencing at 1 p. m. sharp

**80 Head** Mostly R. of M. Cows or daughters of R. of M. Cows, most of them served by great sires. A few choice Males from ancestors backed by large records.

This is a strictly choice lot of Holsteins, and everything that enters the ring will go to the highest bidder. The Club is behind this sale and have very strict rules to ensure a square deal to all.

A public meeting will be held night before the sale.

Catalogue tells all about everything.

Write for yours, to George Rice, Sec., Tilsonburg, Ont.

M. L. HALEY, Pres.

COL. R. E. HAGER, Auct.







Don't bother your head about get-ting up. Leave it to Big Ben.

You ought to go to sleep at night with a clear brain-untroubled and with a clear brain-untroubled and free from getting up worries. You men, if you are up to date farmers, work with your brains as well as with your hands. Such a little thing as 'deciding to get up at a certain time in the morning' and Aeping it on your mind often spoils a needed night's rest and makes a bad "next day." Try Big akes a bad "next for one week. He makes getting up so eag that the whole day is better.

Big Ben is not the usual alarm. He's a timekeeper; a good, all-pur-

pose clock for every day and all day use and for years of service.

He stands seven inches tall. He wears a coat of triple-nickel plated steel. He rings with one long loud ring for 5 minutes straight, or for 10 minutes at intervals of 20 seconds unless you shut him off.

His big, bold figures and hands are easy to read in the dim morning light, his large strong keys are easy to wind, his large strong keys are easy to wind, his price, \$3.00, is easy to pay because his advantages are so easy to see. See them at your dealer.

5,000 Canadian dealers have already adopted him. If you cannot find him at your dealer s, a money order sent to Wrather, La Salle, Illinsii, will bring him to you duty charges prepald.

\$3.00



McMillan and Leggat, Trout River, Que, are offering at the Ormstown cale their herd bull, Auchenbrain Good Gift, and four of his daughters. The kind of soch he is getting, which can be seen at the sale, are the best recommendation we can give this bull. He has developed wonderfully in the last year and will be one of the attractions of the great sale on June 14th.



One of the Good Things to be Seld at the Ormstown Sale

At Canadian Declers.

At Canadian Declers.

Fancy, the yearling helfer here illustrated, is one of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consignment of 1. Facers, Ormstown, Que, to the sale to be held there on June 14th. This is a type of the consistency of the consistency

### YOUR BARN

Your Cows will Produce More in a Sanitary Stable and Your Work will be Cut Squarely in Two

STEEL STALLS ARE SANITARY

They do not soak up manure. The main cause of the spread of tuberculosis in cattle is through urine and manure. No danger with steel stalls.

#### DON'T OBSTRUCT THE SUNLIGHT

Sunlight is the best disinfectant in the word; with steel stalls there are no ark corners. They allow a free movement of light and air. That means dark corners. That means healthy cows.

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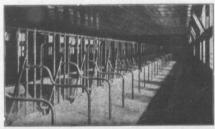
Let us send you our free book. gives all the latest designs and lay-outs recommended by our best agricultura authoaities and the largest dairymen. It gives the best method of ventilation and the proper measurements for manger, cattle stand and gutter.

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### BEATTY BROS.

Fergus, Ont.

We also make Iron Horse Stable Fittings, Hay Tools and Litter Carriers



#### COW COMFORT MEANS INCREASED PRODUCTION

Cows tied in BT Stalls have all the freedom they desire. They can freely get Lows used in D. Stalls nave all the freedom they desire. They can freely get up and down; they can lie on either side and card themselves on almost any of their body, yet they cannot move backward or forward. By the use of our aligning device they can be lined up to the gutter and all droppings fall in the gutter and the cattle stand remains clean.

#### STEEL STALLS ARE DURABLE

When you put in BT Stalls you have a permanent job; no posts rotting off no partitions breaking; no repairs to make. Isn't that worth something?

MAIL THIS COUPON TODAY BEATTY BROS., 1615 Fergus, Ont

Kindly send me free your book, "How to Build a Dairy Barn," and your catalogue on BT Sanitary Barn quipment.

How many cows have you? ... Are you going to remodel or build?

If so, when?... Do you need a Hay Track or a Litter Carrier? .....

Name ..... Post Office.....

HOLS'

LYNDALE H Bull Calv cov

> \$2000 Ar

SROWN BROS.

LAKEVIEW

Rall Calves, sired astha Sir Mona, and E. F. C

BRONTE WILL HOL

A Daughter of and out of Imported lith 1909. Large, marked In oalf to a liengerveld Fayne De Also a number of searly ready for seines are Johanna Rundy Abbekerk's Men

COLLVER V. ROBBINS

FOREST RIDGE FOREST RIDGE BERG DESCRIPTION OF THE PROPERTY OF THE PROPERTY

Ourvilla Hol

Present offer months old EDMUND LAIDL ELGIN COUNTY, AYLN

Holstein He Look up the breedin ander No. 8,450 and want some of his Hei We have them for a

ROBT. A. GILLESPIE.

FAIRVIEW F

Too much mone year for poor bulls. Rag Apple Korndyke Colantha Gladi, for herd. Come and so E. H. DOLLAR.

Pure Bred Two choice Young C Bulls. Must be sold a G. W. SMITH, BOX 2

AVONDALE FAR Yorkshire and fi

A. C. HARDY SERVICE King of the Ponti Artis-31.7 lbs. but lbs. butter in 365 c

PRINCE HENGERVE
Pietje End's Wood
Princess Hengervel
butter in 7 days; h
ter of Hengerveld
Imperial English Yo
winning stock, and a H. LORNE LOGAN, Man

#### HOLSTEINS

LYNDALE HOLSTEINS

cows sired by the \$2000 Bull King Pontiac Artis Canada

BOWN BROS. LVN. ONT.

### AKEVIEW HOLSTEINS

Ball Calves, sired by Dutchland Col-ustha Sir Mona, and out of heifers sired by Count Hengerveld Fayne DeKol.

E. F. OSLER ADONTE ONT

> WILLOW BANK HOLSTEINS

A Daughter of Pontiac Hermes (5442) A Daughter of Postiac Hermes (5442) and of Imported Dam. Born April 1933. 1998. Large, straight and nicely arted in call to a good son of Count Imported Fayne DeKol (7877).
Also marked for service, whose grand arm at Johanna Rue 4th Lad (2108) and Ein Abbekerk's Mercens Posch (4391).

COLLYER V. ROBBINS, RIVERBEND, ONT Fenwick Station, T.H.B.

#### FOREST RIDGE HOLSTEINS

Herd headed by the grandly bred King legis Pictertie, whose six nearest dams yerage II.M be butter in seven days. He has six aleters whose records average bet-

is Personal page 1787 lib butter in range 1787 lib butter in range 1787 lib whose records average in the 191 lib whose records average in the 191 lib butter in 7 days, and justice in a range in lib butter in 7 days. Also matter cown up to 25%, a patter in 7 days.

Also and females for sale. Write us for last yet and the common sale and them. In the 191 lib with the 191 lib with

#### Ourvilla Holstein Herd Present offering—Bull Calves, five months old and younger, from

our great bull, Dutchland Colantha Sir Abbekerk.

EDMUND LAIDLAW & SONS. IGIN COUNTY, AYLMER WEST - ONT.

#### Holstein Heifer Calves Look up the breeding of Herrick Gaster-ander No. 8,450 and see if you do not

ander No. 8,450 and see if you want some of his Heifer Calves. We have them for sale, also two Year

### ROBT. A. GILLESPIE, ABBOTSFORD, QUE

Too much money is spent every ear for poor bulls. Why not buy a ood one? Sons of Pontiac Korndyke, year for poor bulls. Rag Apple Korndyke, and Sir Johanna Colantha Gladi, for sale; 150 head in Come and see them or write. E. H. DOLLAR. Heuvelton, N.Y.

#### Pure Bred Holsteins

ce Young Cows and two Young Bulls. Must be sold at once. G. W. SMITH. BOX 256. DUNDAS, ONT.

### AVONDALE FARM HOLSTEINS

Yorkshire and florned Dorsets A. C. HARDY - Proprietor

SERVICE BULLS:

SERVICE BULLS:
INFO FONTAC ARTS CANADA—Bire.
King of the Pountace, dam, Fontiace
King of the Pountace, dam, Fontiace
Heater and the Company of the Company o

H. LORNE LOGAN, Manager, Brockville, Out.

#### \* MARKET REVIEW AND FORECAST

Toronto, Monday, June 1.—Wholessler ducks, 12c to 16c; geese, 12c to 15c; turkeys, men are receiving a large volume of cr. 21c to 22c. On the Farmers' Market chick-ders and trade in all lines is brisk. The case sell at 12c to 25c; fowl, 14c to 15c; weather of the past few days has been seen, 5c to 15c to decks, 12c to 12c; hens, such as to create an optimistic feeling in 12c to 14c; turkeys, 15c to 25c trade circles. A 20 per cent increases such as to create an optimistic recing in it trade circles. A 20 per cent increase in the acreage of grain is reported. The butter market is quiet and easy, coultook for a large crop is bright, which labo tends to create confidence. On the 25; creamery prints, 256 to 27c; solids, cent increase in



A World Beating Holstein Owned in Quebec Province

The cov nore illustrated is Rhoda queen, bred and owned by Neil Sangster. Ormstown, On three days in public test she averaged over 160 lbs of milk a day, a world' sor. The days in public test she averaged over 160 lbs of milk a day, a world' sor. The day is to be sold at the Ormstown sale, June 14th. Advt.

strong.

WHEAT

WHEAT
During the week numerous enquiries
have been received from foreign quarters
and export trade has been good. Chicago
market shows 2c and Winnipeg 5-8c decline on the week. Quotations are as follows: No. 1 Northern, \$1.10; No. 2, \$1.07; No. 5, \$1.03; Manitoba feed wheat, 67:1-2c; Ontario wheat, \$1.05 to \$1.06 in car lots outside.

COARSE GRAINS

Heavier sales were made on foreign account under brisk enquiry. The general trend of the market is more active. The notable exception is oats, trading being quiet. There was a foreign demand for oorn, but practically none was available. Reserves of grain are giving out here and over, one precedenty more was available.

In the United States Enviry, malting, Fer to Sec. feed, 65c to 70c; casts, C.W., No. 1 extra feed, 49c; No. 1 feed, 69c; control No. 2, 40c to 49c on ear at country points and 51c to 55c on track, Toronto; No. 3, the to 49c on ear at country points and 51c to 55c on track, Toronto; No. 3, the less; corn, 56c to 59c; peas, \$1.20 to \$1.25; less; corn, 56c to 59c; peas, \$1.20 to \$1.25; from Montreal are to the effect that trade on export account is dull. The demand from local and country buyers for casts; good. Trade is fair at steady prices. Corn, 56c cast, C.W., No. 2, 56c to 55.25c; C.W., No. 3, 501-56c to 50c; castro, No. 51.20c; C.W., No. 3, 501-56c, 50c; castro, S.W., No. 2, 501-56c, 501-56c; castro, S.W., No. 2, 501-56c; castro, S.W. FAIRVIEW FARM HERD

Quotations are as follows: Manitoba bran, \$24; shorts, \$25; Ontario bran, \$26; shorts, \$22. At Montreal bran is quoted at \$24, showing a decrease of \$1 a ton; shorts, \$27; middlings, \$29. POTATOES AND BEANS

POTATOES AND BEANS
Prices are the same as least week. Ontario potatoes sell in ear lots on track
here, \$1.30 a bag and out of store, \$1.30
Delawa for the same as least to the same
\$1.80 to 15 to 1

EGG AND POLITRY
Receipts are larger than last week. As a result lower from the larger than last week. As a result lower from the larger than last week. As a result lower from the larger from

farmers' market most lines of produce is | 25c to 25c; inferior, 19c to 20c. Che



HAWK BICYCLES An up-to-date High Grade Bicycle fitted with Roller Chain, New Departure Coaster Brake and Hubs, Detachable Tires, high grade equipment, including Mudguard, \$22.50 Pump, and Tools \$22.50 Send FREE 1912 Catalogue, 100 pages of Riccolor 100 pages of *Bicycles*, *Sundries* and *Repair Material*. You can buy your supplies from us at Wholesale Prices,

T. W. BOYD & SON,

#### (29)HOLSTEINS

SPRING BROOK Holsteins and Tamworth & Your last oppor-Your last opper tunity to got a "Brightest Cansary" bull. Sir four nearest dams average ever 27 lbs. but per week. These are show bulls, straight at got week. These are show bulls, straight at be here the date of the control of the

A. C. HALLMAN, Waterloo Co., Breslau, Ont. ELMDALE DAIRY HOLSTEINS

FUNDALE DAIRY MOLSTEINS
FOR Sale 3 Fearing Bulls, also
Calves, out of Record of Merit dams,
Calves, out of Record of Merit dams,
and the street of Calamity Jane Ormsby,
A.R.O., at 2 yrs. 2 mons, 411 lbs.
milk, 30.6 lbs. butter in 7 days. 2 yrs. 1
mon., 364 lbs. milk, 1928 lbs. butter in 7
days. If you want this kind at a reasonable price, write
BUED, CARR, BOX 115, ST. THOMAS, ONT.

#### RIVERVIEW HERD

Offers Bull Calves from 2 to 10 mos. old, SIRED BY KING ISSBELLE WALKER, whose 3 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 115.87 lbs. in 50 days from dams of likewise breeding, at exceptionally low figures, to

P. J. SALLEY, LACHINE RAPIDS, QUE

Lynden High-Testing Holsteins

I am offering the 2-year-old bull. Lord Korn-dyke de Kol. Hie sire has 21 dams in his ped-igree that average over 23 lbs. butter each A. R. U. His dam, Spotted Lady de Kol. 27,33 los. butter? days, 4.3°, test, 106.40 lbs. butter 29 days, 3.3°, test, at 1 years old. Also bull outlees and a tow good tested own. S. LEMON - LYNDEN, ONT.

N.B. Having sold all my yearing bulls, I am any going to offer the young son . Disone's End Luiu, the Dam of Luiu Esys.

He is 3 weeks old, light in solor, straight and well formed. Price \$12.

E. B. MALLORY FRANKFORD

**GLENDALE HOLSTEINS** 

GLENDALE HOLSTEINS

Butter erop of pure-bred doletein siuli
Caives and a limited number of Heiders,
whose three nearest sires have sired May.
Echo Bytva, over il los, butter in 7 days,
cord: Lula Keyse, 1936 lis, in K.O.P. as
a senior two-pear-old (world's record), and
Jowel Pet Desch Dekoi, 386 liss, butter
at 4 years (world's record). Prices reasonable, All correspondence promptly ansable. All correspondence prompts, wered. WM. A. SHAW, BOX 31, FOXBORO, ONT.

### Who Wants a Show Bull Fit for Service?

From a cow that made 22.60 lbs. butter in 7 days at 10 years old, and also the dam of 3 A. B. O. daughters.

His sire a one of a 25.12 lb. cow in 7 days and 106.23 lbs. in 30 days. She also made record of 25.52 lbs. in 7 days 8 months after calving.

Grand Dam made 25.27 lbs. in 7 days 1 for the check of \$150 takes him. Write

GORDON H. MANHARD - - MANHARD, ONT.

Holsteins Over 4% Fat 1 have established on my farm at Oshawa, Ont, a of the richest blood obtainable. My object is to breed a strain of Hoisteins, which shall be unbestable and all shall give milk 4 per cent or over in lat content. The Worlds Oster and Political Caff, grandeon of King Segia and Pontiac Pet, the Worlds Oster Carter Cart.

A. A. FAREWELL : OSHAWA, ONT : 

#### BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines nor for less than six months, or 26 insections during twelve months.

<u>พืชพรายพราย คราย คราย คราย คราย พราย คราย คราย คราย คราย พื้น คราย คราย พื้น คราย คราย พื้น คราย คราย พื้น ค</u>ราย

HAMPSHIRE PIGS—Canadian Champion herd. Boar herd headers. Sows, three months and under.—Hastings Bros. Crosshill, Ont.

CLYDESDALES, Imp. Stallions and Fil-lies. Fresh Importations always on hand. Every mare guaranteed in foal. J. & J. Semple, Milverton, Ont., and Luverne, Minn., U.S.A.

YORKSHIRE PIGS, all ages, either sex, Choice young boars, 8t for service.—H. Todd, Corinth, Onk. R.F.D. No. 1.

O. Benfield, Woodstock, Ontario.

HOLSTEINS AND TAMWORTH SWINE—Write John W.

HOLSTEINS AND TAMWORTHS—All ages, also S.C.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow-dale, Onzario.

CLYDESDALES—Home of Acme. (Imp.) Holateins—Home of King Fayne Segis Clothilde, nearest 7 dams 27 lbs. butter per week, and Broken Weish Ponies.— R. M. Holtby, G.T.B. & P.O., Manches-ter, Ont., Myrtle, O.P.B.

#### HOLSTEINS

This Space belongs to

## Russell

The Decoration Day Sale Man

Geneva, Ohio, U.S.A.



#### VOUNG Holstein Females

Brookbank Butter Baron Stock and bred to Sir Sadie Cornucopia Clothide, the average of whose dam. sires' dam and grand dam is 30.58 lbs. butter, 692.8 lbs. milk in 7 days: 114.5 lbs. butter in 30 days.

#### AT YOUR OWN PRICE Woodstock Sale, June 12

We are putting in the sale 17 head, mostly 7 ung cows. 3 and 4 years and study the breeding of our offering. They are the kind that particular buyers want and pay good received the sale of the sale

Our cattle are backed by three and four generations of Advanced Registry Holsteins. Buy them. They are cartainties.

Centre and Hillview Holsteins
P. D. EDE, Oxford Centre, P. O., Ont.

### **Growing Heifers**

At Your Own Price

I am selling all but two of my cows and heifers at the

#### Woodstock Consignment Sale Wednesday, June 12th

Most of my cattle are still only grow-ing heifers. I have kept Holsteins and bred these cattle for profit, and

they have paid me well. I started with Lady May of the Valle 3069, a 4 per cent. cow. Pietje de Bell, 2372, a better one, and a grand-daughter of Daisy Banks—rich milking

cattle and quiet, easy milkers.

Come to the Woodstock sale prepared to get my cattle. You will find them great value at any price. I did not expect to sell them until just recently, so did not have time to put them in show shape. This will prove to your advantage. W. A. HARTLEY

#### R. R. No 3 Woodstock, Ont. HOLSTEIN HEIFERS

In Calf to Francy Sir Admiral, he having 3-4 same blood as

Jenny Bonerges Ormsby

These heifers and two other young Hol-tein females, daughters of Sir Mercena aforit, whose dam and grand-dam aver-ge 24 lbs. butter, I am consigning to the Francy Sir Admiral is son of Francy WOODSTOCK SALE, JUNE 12th Bonerges Ormsby, 29.1 lbs. butter, best day's milk 98 lbs., sired by same sire as Jenny Bonerges Ormsby, champion of Canada, and is dam's full sister. Others

vanada, and is dam's full sister. Others in my consignment are: May Blossom Faforit. 3 yrs. old, just fresh and doing excellent. Dam. May Blossom, 22.38, average test 4.66. Will give Queen Anne Faforit, 3 yrs., fresh in July, test 3.8. See Catalogue for full re-cord.

cord.

Lady Mercena Faforit, yearling. Dam,
Lady Mercena. Her record given at sale.
Tidy Princess Faforit, yearling, has
royal blood, and Jewell Faforit 7nd, yearling, dam is a grand cow. All of these
are sired by Sir Moreena Faforit. See
catalogue for details of breeding and records. F. E. PETTIT, BURGESSVILLE, ONTARIO

did not market cattle. Another indica-tion of scarcity here was the arrival of North-West shipments. United States markets are also strong and tight.

markets are also strong and tight.
An average of quotations would be as
follows: Export cattle, choice, \$7.35 to \$8;
bulls, \$8 to \$7: butcher cattle, choice,
\$7.40 to \$7.99; med. to good, \$6.75 to \$7.49;
cows. choice, \$6.50 to \$7; com. to good,
\$4 to \$6; bulls, \$3.50 to \$7; feeders, \$5.50 to
\$6.56; stockers, \$3.55 to \$5.50; canners, \$2.55 0 83 26

Milch cows are in good demand, bringing s high as \$90. Other quotations are \$30 5 \$40. Springers are \$40 to \$60. Calves

Sheep have weakened since last writing,

Sheep have weakened since last writing, being 8t o 85.9 for ewes; bucks and culls, 84 to 85.90; yearlings, 85 to 88; spring lambs, 84 to 85.90.
There is practically no change in the hog market, packers paying 84.25 to 88.4 fo.b. country points.

There was a good demand from butchers and trade was netter. Quotations: Choice steers, 87.75 to 87.50 and lower grades as low as 85.90; butchers' cows, choice, 85.75 to 87.25 out 87.50 to 85.50.

Sheep are more active and prices tambs 83.5 e85.0. There is a good demand for calves, prices ranging from 83 to 830.

MONTHEAL HOG MARKET MONTREAL HOG MARKET

Montreal, Saturday, June 1.—The mar-ket here for live hogs has been easy, with prices slowly declining. The week is closing with the offerings selling at \$9.25 for selected lots, with some of the drovers selected lots, with some of the arrows finding it impossible to make a clearance owing to the small demand from the packers. There is a fair trade doing in dressed hogs and prices were fairly steady at \$13 to \$13.25 a cwt. for fresh-killed abattoir

EXPORT BUTTER AND CHEESE Montreal, Saturday, June 1.—The market for cheese this week was very strong and for cneese this week was very strong and active, with keen competition at the coun-try markets for the offerings and prices were rushed up to 14 3-16c, this latter price having been paid at Picton for colorprice having been paid at Picton for colored choses. At other points prices ranged from 15.5% to 14.16c, the average price paid being 16c. There is every evidence to-day that the price has been overdone and that we are in for a sharp reaction in price, and, owing to a sharp reaction until we man to the price has been overdone until the price and the ings, we must look for a steady decline until we reach the price at which dealers will be tempted to speculate in cheese. Just what this price will be, it is im-possible to say, except that it will be at higher average price than was paid at his time last year. The make in all parts a higher average price train was paid at this time last year. The make in all parts of the country has been small during the month of May, probably averaging 15 per cent less than for the same time last year. The reports from all over the country would indicate that the output country would indicate that the output for the month of June should be practically the same as last year. Shipments are going out steadily, and so far there is no accumulation of stock in Montreal. Cable advices from Great Britain would indicate that cheese are going steadily into con-

that cheese are going steadily into cos-sumption there.

The market for butter is easy, with prices declining, a drug of fully one cent and the second of the company of the company of the less price obtainable to-day on this market for finest Eastern Townships creamery is 26c a pound. Further declines are generally expected and we must look for lower prices before any specialitive trade will be indulged in by the local

CHEESE MARKETS.

Stirling, May 22.—780 boxes boarded; 270 old at 13 3-4c, and balance at 13 11-16c. Campbellford, May 22.—805 boxes boardcampbelliore, May 25.—300 boxes board-ed; 700 boxes sold at 13 11-16c, and bal-ance refused at 13 5-8c. Brockville, May 30.—2,719 colored and 1,625 white. All cleared off this afternoon

Kingston, May 30.-704 boxes of white nd 20 colored cheese offered. Sold at

13 5-8c. Vanleek Hill, May 30.—335 bo boarded and sold at 13 7-8c. Alexandria, May 30.—724 chee 44 colored. All sold at 13 7-8c.

E. H. Dollar, Huvelton, N.Y., will give an

active, being quoted at 17 1-5c to 17 1-5c for of June 11, before the Oxford County Hold large; when, new, 18 4-5c to 18c and large, new, 14 1-5c to 14 3-6c.

Receipts are light here. Firm prices in most classes of live stock prevail with a steady demand. Although prices were high and good weather prevails of the most classes of weather prevails with a full most considerable of the stock production. For J. H. B. Dean, an ever oppular speaker, will also be on hand. Mr. W. W. Rowell. MP-P. is also expected to be present. Dairymen may expect an indicating the production of the production of the control of the production of the state of the production of the production. The control of the production of the production of the most of the production. The production of the production. The production of the production o

#### GOOD HOLSTEINS FOR WOODSTOCK

Oxford County, Ont., is said to have one-sixth of all the Holstein cattle in Canada; one-fifth or one-sixth of the members of the Holstein Friesian Association of Can-ada live in Oxford County. When these breedors dec.de to hold a consignment ada live in Uniors votas; and live in Uniors when the breeders decide to hold a consignment saie it is quite reasonable to presume that they will be "doing things" in the way of putting up good cattle; in fact, the best that are to be had anywhere. Recently one of the editors of Farm and Cate agent some time driving through Secontly one of the editors of Farm and Dairy spent some time driving through the district out from Woodstock, and in-spected a goodly number of the cattle go-ning in the sale. For the most part the cattle offered were quite up to and in fact exceeded the high standard we had an-ticipated these cattle would reach. The Breders Represented The Company of the Comp

The following breeders are consigning cattle to the sale, the figures after each representing the cattle they are putting in: From Norwich, H. Hartley, 5; M. Hartley, 2; T. L. Dunkin, 6; A. E. Hulet, 17; from New Burham, Cohee Broza, 2; from Oxford Gestre, Ede and Schell, 12; M. McDowell, 4; F. E. Pettis, of Burgesville, 6; W. B. Poole, Saltord, 6; from field, 4; W. A. Hartley, 19; 10c. Elliott, Tillsonburg, 2; Bollert and Leuzler, Cassel, 2.

On account of the breeders being so widely distributed we were unable during the two days we devoted to this purpose to visit them all and inspect their cattle going in this sale. Notes secured by Mr. Geo. Rice, the secretary of the Oxford Breeders' Club, covering most of the offerings in the sale, have already been published in Farm and Dairy. Special advertisements calling your attention to individual offerings, and photographs of some of the stock to be offered, appear elsewhere in Farm and Dairy the issue. Noteworthy amongst the cattle we in-spected are the cattle to be consigned by A. E. Hulet. His 17 head going in the sale are in excellent condition. Three or four (Concluded on page 32)

MIGH PRICES FOR WESTERN HOL-Strong evidence of the popularity of the Bolstein cow in Western Canada is found in the prices that were received at the dispersion of Thos. Laycock and Sons. Oalgary, Alt. The 73 head sold brought \$15,670.50, an average of \$211.50 each. Some of the best prices received were as foil

were prices received were as follower prices and the control of Frontier Pietertje Wayne, C. Parry, Lethbridge, \$330; Sylvia Best Flower, C. Parry, \$275; Bessie 6th, C. Parry, \$325; Acconeth Teake Pride, T. A. Murphy, Westcott, \$290; Bessie Iona Sylvia, C. A. Millie, Gleichen, \$360.

WORLD'S RECORD AYRSHIRES AT PUBLIC AUCTION produced in 299 days freshening twice in a year. There are only two calves (bulls) of this great cow to be had. Mr. G. D. Mode Vanklesk Hill, Out., owns one calf. Here is a chance for somebody to get the other

Every animal that has been tested for tuberculosis in this herd has been healthy. The records made in this herd neathy. The records made in this hord have done much to advertise the breed. June 18 should be a red-letter day for Ayrahire breeders who are looking for animals of the right kind. Ryckman's Corner is just three miles south of Ham-ilton. Don't forget the date and the

#### AYRSHIRES

#### AYRSHIRES AND YORKSHIRES

For sale-High-Class Avrebires, all age, including Galves and Bulls fit for service. First price Yorkshire Pigs, all iges seed in your orders now for pigs to be chipped in March, April and May; price. 85 each. Registered in name of purchaser Apply to Hon. W. OWENS, or to ROBERT SINTON River Side Farm - MONTEBELLO, Que,

RAVENSDALE AYRSHIRES



Special offering a splendid lot Toung Bulls, fr two to 12 mone old Write for pr

#### Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale. Long distance 'phone in hous

HOWICK, QUE.

### Neidpath Ayrshire Bulls

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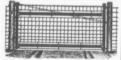
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Canadian Gate Co., Ltd. 29 Morris St. Guelph, Ont. HOLSTEINS FOR WOODSTOCK SALE

(Continued from page 30)
of them will be just freshening at the time of the sale. Breeders hunting good stuff will find it in this consignment. We stun will had it in this consignment. We expressed wonderment that he should be putting in so many real good ones, but Mr. Hulet replied that he had not the help to milk his cows, and be would have to part with some of them, since he could not been them all

part with some of them, since he could not keep them all.

A Really Choice Cow
It will bother the auctioneer to get value for many of this offering; one of the cows for instance is "Mysa," a young cow, second at Guelph Dairy Test last waiter, and a cow which even were she a will all the constant of th alone. She will give 20,000 lbs. of milk this year.

(Mr. Hulet has some excellent show stuff

Nearly all Mr. Ede's offering are three and four-year-olds, and are very likely appearing heifers. Two of these, Ruby Jean. 11.01 lbs. butter as a two-year-old, and Calamity Duchess Posch 2nd, 14.64 lbs. butter, are from that noted old Brookbank Butter Baron, well known Brookbank Butter Baron, well known to be brookbank Butter Baron, well known to be brookbank Butter Baron, well known to be brookbank Butter Baron Butter Baron Butter Butt



Pleasant Hill Korndyke, a Great Bull with Great Backing

This bull is at the head of the well known Holstein herd of Neil Sangster. This bull is at the head of the well known Holstein herd of Neil Sangastr. Ormstown, Que. He is sired by Sir Korndyke Pontias Artia, through whom he traces to such notable producers as Sir Korndyke Manner De Kot, sire of 9 A.R.O. daughters and Hengeweid De Kol, sire of 9 A.R.O. daughters. His grand-dam was Fontiae Artis, with an official record of 3172 lbs. butter in 7 days. Note the strong beart girth, great length and strong, masculine carriage of this bull. He cowe Mr. De Holmer of the December 1 days are been to this bull. Some young stock by him will also be offered. —Phote by an editor of Farm and Dairy.

ming on for Toronto next fall. Madame Posch, if no trouble overtakes her in the meantime, will be something ner in the meantime, will be something to contend with, as will his two-year-old stock bull. Count Ladoga Canary). Mr. Dunkin was not at home when we called, but his son showed us the cattle,

and incidentally pulled out his automo-bile in order that we might photograph it. as shown elsewhere in Farm and Dairy

The cattle Mr. Dunkin is consigning are a credit to the sale, the cows in milk having records up to 19 lbs., and most of them being related closely to his great cow Canary Triton Jewel, 1915 lbs. butter

cow Canary Triton Jewel, 19.5 10a. butter in one month, 25.25 in one week. Miles Hartley is putting in one nice young cow of pleasing type,—a little un-der size, but a remarkably good tester, having averaged over 4 per cent in the cow testing association

Amongst the consignment to be made by Mr. F. E. Pettit are three heifers, which ought to look good to buyers since they are in ealf to a young bull having three-quarters of the blood of Sir Admiral

three-quarters of the blood of Six Admiral Ormsby, Mr. Petti's buil is from Jennie Bonerges Ormsby, Mr. Flatt's great cow, which recently increased her record, making over 34 lbs of butter in 7 days.

Great Cattle from a Great Herd.

The Centre and Hillview Farms, Mr. P. D. Eds, are putting in an offering worth going a long distance to see and get. All going a long distance to see and get. All three and of these seems in backed by three and of these seems in backed by three and of these seems of the seems o three and four generations of advanregistry ancestors, and the cattle offering in the sale are attractive individuals with records, and the most popular breeding. Two illustrations of Mr. Ede's breeding. Two litustrations of Mr. Edes a cattle appear in Farm and Dairy this week; a cut of his richly-bred bull was published last week. This bull, Sir Sadie Cornucopia Clothilde, is the sire of one bulls Mr. Ede is putting in the of the sale: his dam, sire's dam, and grand-dam averaged 30.58 lbs. butter, and his dam made something close to 20 lbs. of butter in a week, eight months after calving. be in calf to this great bull.

His will afford someone a grand opportunity takes of getting a Holstein cow really worth

while.

Mr. Ede and his brother-in-law, Mr.
Schell, are really doing things in Hol-stein cattle. There are three big herds represented, numbering at times as high as 200 Holsteins. Farm and Dairy readers may be sure that Mr. Ede will not sacrimay be sure that Mr. Ede will not sacrifice his reputation, and the cattle he is putting in the sale will make choice buying for the breeders who get them.

W. E. Thomson is putting in the sale two four-year-olds, one being from a cow

purchased from Mr. Geo. Rice. This cow has a private record of 480 lbs. milk, averaging 34 in 7 days, the other one at three years old made 12 lbs. of butter.

#### H. G. Benfield's Considement

H. G. Benfield's Consignment Four pure-bred females and one young bull are being consigned by H. O. Ben-field. These cows are in calf to Spring-bank Butter Boy, the richly-bred and splendd individual as illustrated else-where in Farm and Dairy this week. His dam is Queen's Butter Girl, sweepstakee at Ottawa as a three-year-old in the dairy test having. test, having a 7-day record of over 24 lbs butter. The owner of this cow has re-fused \$450 for her and she is an excellent

individual as is this bull.

The young bull consigned by Mr. Benfield is by Spragbank Calamity DeKol.
His dam is a full sister to the famous Boutsje cow at Guelph. He is ready for service and will make an admirable head-

er for someone

Mr. W. A. Hartley is consigning major part of his herd since he finds him self without help, and is contemplating taking a holiday. His cattle are of the rent-paying, mortgage-lifting sort, and are of popular breeding. Mr. Hartley has never found time to test his cattle officiality. His cattle are not in the best of shape to sell, since he has been short of feed and was required to turn out to grass early. Many in his offering will make splendid buying however; they have been bred for high producton and milk rich in



# **EXCURSIONS**

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age per cent 4.41, Her calf in sale. SNOWFLAKE,-12,616.1 lbs. milk, 565.79 lbs. fat, aver-oduced in 299 days, freshening twice in the year.

SYBELLA OF SPRINGBANK,-at 5 yrs. gave 11,4638 lbs. milk, 423.68 lbs. fat in 307 days and freshened twice in 11 months. Average per cent fat 4.13.

Tuesday, June 18th, 1912 HEAD, OF CANADA'S R. O. P. HERD OF At Springbank Farm, three miles South of particulars of Breeding, Photographs and Milk and Butter III be mailed on request. WRITE FOR YOURS TO-DAY.

Illustrated Catalogue

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SPRINGBANK,—bas record of 8,839,15 lbs. milk, 395.35 lbs. 4,472 per cent. Number of days in milk, 338. Sec. catalogue. Full sister to Ottawa Test winner.



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AYRSHIRE CATTLE

The six Arvibries we show you on this page are but a sample of our entire herd of perfectively for Arvibries. It has you produced the pool weak good trade of the superintent of the form of the sample of the superintent of

A. S. Turner & Son Byckman's Corners



2ND OF SPRINGBANK.—Holds world's 2-year-old record, pr. 22 lbs. milt; 550,49 bs. fat in 356 days. Record fully given fade 825,43 worth of milk last year (wholesale).

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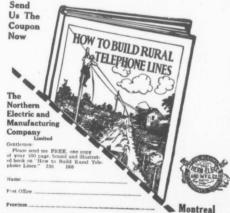
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OU can readily understand that when you and your friends have the entire management in your own hands, you can regulate the cost of running the line. In the book we explain just exactly what is necessary and you can take your pencil and figure out how little it will cost you to have a telephone on the wall in



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#### There Will Be A Telephone System In Your Locality - Get Posted

SOONER or later someone is going to start a telephone system in your community, just as systems are being started every day in farming centres throughout the Dominion. When this subject comes up, you will want the full particulars before you. Now is the time for you to post yourself. The book tells you care yourself and, if you are intersted, we will be glad to send it to you free. Do you care to sign the coupon and send it to us now?

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