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PETERBORO, ONT.

JUNE 2,

1910.



OF THE VARIOUS FARM MACHINES THE SELF BINDER IS ONE OF THE MOST IMPORTANT

In this issue of Farm and Dairy a number of farmers record their experiences with labor saving machinery. So great has been the improvements in farm machinery that Farm and Dairy deems it well to devote special attention at this time each year to this subject. The Self Binder is one of the most remarkable and most needed farm machines of the day, but there are numerous others that have become almost as essential and that are large profit makers. Farm machinery when purchased judiciously in spite of the heavy cost involved, soon pays for itself.

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rt lived compared with the latest and most to-date stables. You will be surprised at the cost of them. The cost of them are the cost of them are represented by the cost of th

BROS. Fergus, Can. LITTER CARRIERS, HAY CARRIERS, ETC.

It is desirable to mention the name of this publication when writing to advertisers

The Farm Repair Shop

arles Malcolm, Colchester Co., N. S. Exposure is the greatest cause of depreciation in farm implements. A great deal of time and money is also great deal of time and money is also lost, usually in the busiest season, from breekages of machinery during work hours. Very often work has to ecase completely and the hands remain idle while the machine goes to the shop for repairs, and the expense of such breakage is a serious matter. Farmers as a rule have a practical knowledge of mechanics from their examples are with the many machines they use, are with the many machines they use, are with the many machines they use, are with the most made quickly and efficiently of all repairs on the work.

to do the work.

To equip a tool shop with the necessary naterial for farm repairs is not as big an investment as one might think, and the time and money saved think, and the time and money asved by such conveniences will amply repay the initial cost, to say nothing of the added satisfaction of having the work run along smoothly and continuously without the usual stops for repairs at distant shops. The life of farm im-plements is also considerably length-ened when the parts are kept tight and in good working order, as the op-cration of machines in poor repair eration of machines in poor repair soon sends them to the junk pile. SELECTING AN EQUIPMENT.

In selecting an equipment of tools, the first essential is to decide on the ones that will be useful for the par-ticular business conducted on the ticular business conducted on the farm. Purchasing an indiscriminate lot of tools is poor policy. Give pref-crence at first to the ones most fre-quently and urgently needed, and pass over those that will be rarely used. An-other important point is to purchase over those that will be rarely used. Another important point is to purchase tools of good quality, not necessarily those with a fine finish, but good standard tools bearing the name of the manufacturers. Cheap grades can be manufacturers. The property of ferm at a reasonable price.

farm at a reasonable price.

Each farmer will have to select his
own list, but it should be remembered
that a small, well selected outfit, used
to the best advantage and well cared
for, will prove more satisfactory than
a large miscellaneous assortment improperly kept and used. Among the
more important wood-westigs. properly kept and used. Among the more important wood-working tools that every farmer should have are an ax, claw hammer, hand saw, rip saw, Jack plane, steel square, brace and bits, chisels, screw driver, augers and spirit level. There are a great many others that are necessary in particular spirit level. There are a great many others, that are necessary in particular cases, but the ones mentioned will be found sufficient for ordinary wood repairs on the farm. These range in price from 25 cents to \$2.00 each, except the brace and set of bits, which cost about \$3.00.

IRON WORKING TOOLS.

mon working tools.

The main outlay in equipping a tool shop comes in the iron working tools, but on the other hand this is the outfit that saves the most money in repair expenses. With such appliances, a tool shop becomes a real workhouse; without them, it is little more than a playhouse. Among the larger and higher priced items in this list that are necessary for a reasonably list that are necessary for a reasonably list that are necessary for a reasonably complete equipment may be mentioned complete equipment may be mentioned a forze, centre from the 85,00 an anvil. 87,00 vise. 8500 firlil, 810,00, taps and disc, 85,00 irril, 810,00 taps and disc, 85,00 irril, 810,00 taps and disc, 85,00 irril, 80,00 irril, 80,

screws and nails should be always in screws and naits should be always in stock, as a repair equipment will be of little use if there is no material handy with which to replace the brok-en parts. The habit should be formed of saving every little piece of good material that can be used for repair

Scales, Their Use to a Farmer

S. A. Northcott, Ontario Co., Ont. Like many another thing about a farm, a set of weigh scales can be to the without; but not profitably, however, nor to the satisfaction of the farmer. There are a thousand and one things that a farmer often would like to know the weight of. Such inlike to know the weight of. Such information might or might not put direct dollars into his pocket; at a rate, it would give him a great deal of satisfaction. of satisfaction.

A farmer has something to sell nearly every day of the year. It is necessary for him to know the weight of many things that he is selling. Grain, potatoes or roots may be measured. But how much easier and better it is to weigh these things! By weighing, to weigh these things! By weighing, the work is done in half the time and both the buyer and seller are satisfied with the amount bought and sold.

THE BEST OF THE BARGAIN.

When stock is for sale, a set of scales will greatly aid the owner to seal to advantage. A buyer comes along and offers a certain price for the beast, or for a number of them, and if the farmer does not know the weight of what he has for sale and has no of what he has for sale and has no convenient way of finding out, the other fellow more likely than not will

other fellow more likely than not will get the best of the bargain. Even if stock is sold by weight, a farmer should have his scales and weigh the stock at home. He is then in a position to check the weights giv-en by the dealer and thus make sure that he is getting a square deal.

that he is getting a square deal.

There are many makes of scales on the market, the convenient, however, for weight of convenient, and the convenient of th

Fifth Place in Wheat Production

A statement prepared by the Census and Statistics branch of the Departand Statistics branch of the Depart-ment of Agriculture, Ottawa, shows that among wheat producing countries of the world Canada now ranks fifth. In 1998 Canada ranked tenth. The to-tal production of wheat in Canada la production of wheat in Canada classical countries of the Canada las, countries of the Canada and the Canada las, countries of the Canada and the Canada las, countries of the Canada and the Canada and the Canada las, countries of the Canada and the Can

Last year the wheat production by

cas in 1895.

Last year the wheat production by countries was as follows: Russia, 213, 52, 363 bushels; United States, 213, 52, 363 bushels; United States, 250 bushels; Canada halman, 253, 522, 377 bushels; Canada halman, 253, 522, 377 bushels; Canada halman, 188, 514, 144, 515, 711, 230 bushels; Bushels; Great hushels; Australia, 82, 528, 514 bushels; Great Britain and Ireland, 64, 525, 212 bushels; Australia, 82, 528, 514 bushels; Great Britain and Ireland, 64, 525, 212 bushels; In 1908 the order of precedence in respect to production was as follows: United States, Russia, France, 1916

The Manitoba Elevator Commission was sworn in and opened offices at Winnipeg last week. Communications ard quality. Added to this list will are invited from anyone having anybe blacksmith hammers, tongs, files
wrenches cold chisels and pincers, any
one of which should not exceed a dollar in cost.

It is hardly necessary to mention the
grindstone and oilstone, as these are
fixtures on every farm. A small supply of timber, bar iron, bolts, rivets,
tem of grain elevators.

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cultu physi er a sided of in perier with must

Му kept. 1 by twe cost r men e are ca two ho two m men w keepin busy.

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Vol. XXIX.

FOR WEEK ENDING JUNE 2, 1910

#### SOME FORMS OF POWER ON THE FARM\*

Anson Groh, Waterloo Co., Ont.

#### The Economy of Using Various Labor-Saving Devices and Machines in Place of Manual Labor-A Higher Type of Hired Man That is Worthy of His Hire.



Anson Grob

THE most important power for any farm is strong, clear, self-reliant mental power. We once wrote, "Successful agriculture to-day does not depend so much upon muscle and endurance as it does upon capital and gumption. Particularly in recent years have the fields of opportunity and the scale of wages made it difficult for us farmers to employ needed help, and while we may mentally speculate on the causes and prob-

tory than on farms where cheap men and lack of equipment prevail.

#### PLENTY OF HORSE POWER.

Having the farm supplied with good men, they will be entitled to, and your interests will demand, plenty of horse power of the right sort, to move the implements at an effective rate of motion. True, horses grow old and wear out, but that is not sufficient excuse for having nothing but imbecile equine power on the farm.

On our farms we are widening and increasing the scope of the implements with every new purchase. The plowing is all done with two-furrow plows. The harrowing is now done at the rate of 36 feet to the round. A 16-plate disc has taken the place of the old 12-disc implement. The drill There are a number of things to do on the average farm that call into consideration the question of the most suitable power.

When first we came upon this farm it was evident how the first settlers had solved the water problem. The buildings were planted to the northwest side of a hill, where there was lots of water below. We could go down and carry up all the water needed for domestic use! The cattle could go down the gully to the water trough not very far away; but, when in winter after a thaw or rain it froze, then we had our troubles over the glassy hill!

#### SOLVING THE WATER PROBLEM.

This had to be remedied, and our first move was to put a pipe into the hillside from a spring of water up to the kitchen of the house and from there to the barnyard; a pump at the spring forced the water up the hill, if we manipulated the handle. The next stage of the evolution was a ditch, a small dam, a home-made water wheelabout five feet in diameter-the necessary coup-

ling and connections of wires to attach the power of that wheel to the pump by means of triangles. Then when the water was turned on to the wheel, we had rejoicing on top of that hill, for the water came full and free, all of itself. And this form of a pumping station should not be despised on many a farm in this fair province, although all must be made secure against interference from frost

Having water on the brain, however, we could not stop there. We had heard of the hydraulic ram as an automents, and anyone having a flowing stream of suitable

matic pump. We studied it and its requirements and next installed a number four hydraulic ram. After over 20 years' experience with this ram, I am convinced that where conditions are right, no better plant for pumping water can be put in than the hydraulic ram. The manufacturer's circulars give full instructions as to requirewater with several feet of

fall available should get the manufacturer's circulars and study the problem.

#### CAPITAL FOR SATISFACTORY SERVICE.

Our next power problem for water pumping had to be worked out a few years ago when we purchased our Bunker farms. Through the greater part of the year the stock on a 200-acre farm had te be watered from one well by hand pumping. This we estimated took over one month of labor of one man each year, and that not very congental labor either. Thirty dellars a year for pumping water ought to be capital enough for a more satisfactory service.

For pumping water only, wind power may be as economical as any and quite satisfactory f good and abundant storage capacity is provided.



The Popular Farm and General Purpose Power of the Day

The gaseline engine in various degrees of horse-power is finding distinct favor on many farms where an all-round power is required. The illustration shows one of the medium sized (eight horse power) engines at work in first too, out.

able outcome of the changed conditions, the conditions themselves are forcing a cure. A system of mechanical agriculture is Leing evolved whereby the farmer accomplishes more in one day than he did heretofore in two, and with greater ease."

But this mechanical agriculture, with its increased physical and mechanical power accompaniment, requires to be manipulated and presided over by a higher grade of intellect or a broader experience than was the case with the old order, and this must be rewarded accord-

#### TWO VS. FOUR MEN.

My eight work horses are kept, busy most of their time by two teamsters. Those men cost more money each than men can be hired for who are capable only of handling two horses at a time, but the two men are much cheaper at the better wages than four men who are only capable of keeping the same horses busy. Mechanical agriculture calls

for men of power and ability on the farm. Such men are more likely to be self-respecting and safe company to keep on a farm where it is necessary that the men become part of the family, and if the worth of manly and capable men were more \*appreciated and employed by the year, at fair wages ungrudgingly given, it would not be so difficult to get satisfactory help on our farms. By furnishing such men with the proper power and mechanical equipment, the ultimate cost of production and net profits will be more satisfac-

"This article is the second essay written by Mr.
Grob, whose farm was a prize winner in the Dairy
Grob, whose farm was a prize winner in the Dairy
practic and property of the property of the property
practic application and property of the property
prize winning farmers are now running in
weekly in Farm and Dairy. Your neighbor would thank
you for telling him about these articles, and inducing
lin to subscribe to Farm and Dairy.

sows two drills more than its predecessor. The spring tooth cultivator is now required to do work which at one time we did with the single furrow plow.

#### HUSBANDS THE POWER OF MEN.

At all stages of the labor of the farm, including manure spreading, tillage, seeding, harvesting and housing of crops, we prefer to husband the power of men and transfer the call for physical force on to horses and machinery. Side delivery rakes, hay loaders, slings, racklifters, and such like devices, we believe to be economical.

This question of power on the farm has, however, a different point from which it may be considered. Shall we require the hired man to take his rest on the pump handle, or on the bucksaw? But we planned to build a dairy at the well, where we would have a large supply of fresh water receivable at the stables under control of float valve. We wanted power that might be under control, and with shafting and pulleys could be used for pumping, churning, cream separating, running the emery wheel or any such light work. We decided that a small gasoline engine should do the work. These machines for this purpose are now quite common throughout Waterloo county, and are giving good satisfaction.

#### Points to Consider in a Dairy Sire\*

In selecting the sire, first decide on the breed which you think will be best suited for your conditions. Then stick to this breed. The value of the sire must be based solely on his ability to get high producing heifer calves. There are two courses open to a man who wishes to select the proper sire to grade up his herd. Select a young, untried sire and judge from his form and the records of his dam and grand dam as to his ability to transmit dairy qualities, or select an old sire that has been tried and found to have the ability to transmit milking qualities to his daughters. The desirable sire should have high producers in his ancestry. His dam, and grand dam especially, should be superior individuals, also the dam of his sire.

In studying herd records it is well to pay more attention to year records than to records for short periods of time, such as 7-day and 30-day. Although many dairymen prefer a young bull—of course there is some uncertainty as to his power to transmit dairy qualities—the most skilled breeders are often on the lookout for aged bulls, which have sired daughters of merit. They, of course, are hard to get and are often expensive because their great value is known to their owner, if he is a wise breeder. Many dairymen sell the bull for beef after he has been used two or three years without seeing any of his daughters in milk. Many good bulls no doubt are lost in this way.

There are certain characteristics of form which should be present in the sire. He should have a strong, masculine appearance, strong constitution and vitality and be a good type of the breed he represents. He should have a lean, clean-cut face, with wide muzzle, strong jaw and large bright eyes. His ribs should be long, well sprung and wide apart, giving him an open relax conformation. His abdomen should be large and deep with strong navel development, indicating feeding capacity and vitality. His hide should be loose, pliable, of medium thickness, not thick and meaty, nor thin, dry and papery. The rudimentary teats, which are found just in front of the scrotum, should be large, squarely placed and wide apart. This is considered very important by many judges, as a large well balanced and well shaped udder on the cow is largely due to the way the rudimentary teats of the sire are placed. If they are crowded close together, the result will be a narrow pointed udder on the daughter. When we speak of prepotency, we refer to the ability which the sire has to transmit his characteristics, or those of his ancestors, to his progeny. It is indicated by the vigorous appearance and a strong, resolute bearing and an abundance of nervous en-

It is clearly indicated that the farmer's flock, if given a fair chance, plays no small part in producing a profitable income on the farm. That many farm flocks produce little or no income is not the fault of the business, but rather of its management. With the poultry business like any other business, good management brings success. Give the hen a fair chance and she will do the rest.—L. B. Martin, Lincoln Co., Ont.

\*This article is part of an information circular sent out by the Blue Valley Oreamery Co. to its patrons.

#### Modern Means of Unloading Hay

E. Terrill, Northumberland Co., Ont.

Unloading devices are now generally used. In our barn we have put up a wooden track 112 feet long; the one in the "L" is 40 feet long. We prefer the wooden tracks on account of them being the least noisy. Each track is fully equipped so that there is no changing of cars, pulleys, ropes, etc., which is a decided advantage when one is in a hurry. We use rope slings, without slats, going the full length of the load. Three dratts take off a load and often do it in about three minutes. We use two ropes in the sling for hay and three ropes for sheaves of grain.

I often think how many days I have perspired under the rays of a midday July sun putting in hay the best I could in some low shed or lean-to, and then think, with a feeling of much pleasure,



A Labor Saver of the First Order

Unloading tools cost so little in comparison with the work they can periorm, that no one with hay or grain in quantity to unload should think of doing without a full equipment in this line.

on the vast improvements of modern days that have made the up-to-date young farmer of today the envy of his city cousins, who acknowledge that he follows the most free and easy occupation on earth

#### Raising an Orphan Foal by Hand

A. S. Alexander, V. S., Madison, Wis.

In case the mare dies or has no milk the foal may be raised on cows' milk, if the attendant conducts the work patiently and intelligently. Choose the milk of a cow that has recently calved, preferably one which gives milk low in butter fat, for mares' milk while rich in sugar, is poor in fat. Sweeten the milk with molasses or sugar and ditute with warm water. Give a little of this prepared milk at short intervals from a scalded nursing bottle and large rubber nipple. Be careful to keep the bottle and nipple scrupulously clean. Add an ounce of lime water to each pint of the prepared milk and allow half a cupful once an hour at first.

As the foal grows, gradually increase the amount of milk fed and lengthen the intervals between meals. In a few days food may be given six times a day and, later, four times daily. The foal will soon learn to drink from a pail, if allowed to suck the attendant's fingers at first.

Until the bowels move freely, give rectal injections night and morning. If the foal scours at any time give two to four tablesponfuls of a mixture of sweet oil and pure eastor oil shaken up in milk and stop feeding milk for two or three meals, allowing sweetened warm water and lime water instead. Let the foal lick oatmeal as soon as it will eat and gradually increase the amount

and add wheat bran. In five or six weeks some sweet, skim milk may be given and the amount gradually increased daily until, in three months or so, it may be given freely three times a day in place of new milk. The foal at this age also will be eating freely of grass, grain and bran.

At all times supply pure cold drinking water. Let the foal run out in a lot or grass paddock for exercise. Accustom it to being handled daily. Feed small quantities of nutritious food often, keeping all food vessels clean, and the foal should thrive and develop well.

### Second Hand Machinery-Is it Worth While?

T. R James, Middlesex Co., Ont.

Shall we, or shall we not, buy second hand machinery? Many of my brother farmers do not stop to consider this question. They buy the cheap second hand machinery wherever and whenever it is offered, provided they have any possible future need for it. Some of the second hand machinery such as can be picked up at auction sales is little the worse for wear and will often give good satisfaction and prove to have been good value for the money. To buy any of the great bulk of the farm machinery that is sold at auction sales, however, is a losing Lusiness; and this statement applies with double force to such intricate and delicate machinery as binders, mowers, tedders, side delivery rakes and cream sep-

#### A PREMIUM ON NEW MACHINERY.

The western farmers put a premium on new machinery that is often overlooked by us eastern farmers who are nearer the place of manufacture and hence can more rapidly secure repairs. One westerner of my acquaintance who keeps three seven-foot binders, sells one of them every third year no matter how good it may be and buys a new one to replace it. He says that there is always someone looking for a cheap binder and by keeping his binders housed while not in use, the paint is still fresh on them and they sell for a very good price. He told me that he would not risk going into his crop with an old machine Lecause the delay of one or two days might mean a loss to him sufficient to cover the cost of several new binders.

Another western farmer of my acquaintance who was talking about his mowers said, "There are many mowing machines used long after it would pay to replace them with new ones. Time is money. A man cannot afford to work with any cutting machine that will not go right along without stopping to clear the machine or to put on repairs."

What is true of a western farmer applies, possibly to a lesser degree, to us farmers here in the cast. We cannot afford to run an old mower that has to be backed up and given a running start when it comes to heavy grass. We cannot afford to run a binder that misses occasional sheares or that does not tie perfectly. With a hay tedder that calls for repairs each half day it is run—and there are many such—the time lost and expenses for repairs would pay big interest on new and up-to-date machinery, which is capable of doing the best possible work and for which the manifacturer must be responsible until the machine has proven its efficiency and worth.

There will always? in all probatility, men who will jump at the chance of buying second-harN machinery. There will always remain countiess farmers who will use old machines much after they should be consigned to the scrapheap. These men will pay for their folly in good hard cash. The more progressive of us, however, will contain as we have done in the past to recognize the superior value of brand new and up-to-date machinery—the kind that can be relied upon to do its work well and whenever called upon to do

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#### Stupendous Loss From Neglected Implements

Mac. C. Cutting, Associate Editor, "The Farmer, St. Paul, Minn."

One of the most stupendous losses that our farmers are bearing is directly the result of their own negligonee and carelessness. The ravages of insects and diseases on their crops and the disastrous effects of drouth, hail and frost, they are not responsible for, and the battle against such ad-



One Good Way of Cultivating Corn

verse conditions must be energetic and continuous if they are to reap the benefits of their farming operations. But there is another great drain on the natural revenues of the farm, ranking high in its effects among the conditions mentioned and far more easily remedied, for which the farmer deserves absolutely no sympathy or support, as the responsibility rests entirely on his own shoulders, and the evil can be averted only by his own voluntary action. This is the loss and depreciation in value of farm machinery due principally to wilful exposure to the action of the elements and in a lesser degree to the lack of repair equipment.

The financial loss to the farmers of America from this cause actually amounts up to the milition of dollars, and it is strange indeed that such a condition of affairs should be allowed to exist in this enlightened age among a class of the community noted collectively for their thrift, their industry, their hard common sense and their practical appreciation of the worth of dollars. Still more unaccountable does it appear when we consider that the farmer, who has learned the necessity of constant activity and constant attention to details in the production of profitable crops, remains undisturbed at this most obvious wasting of his profits.

#### THIS NEGLECT IS WIDESPREAD,

The exposure of farm machinery is not confined to a few scattered homesteads, but is evident on thousands of our average farms where the experience of years should have brought understanding, but where the plow still stands in the last furrow, to be worked around in the summer, and the binder remains where the last sheaf was cut, to be plowed around in the spring. Seeders, harrows, mowers and rakes sink quietly out of sight beneath a hiding mantle of snow as though thankful to escape from the shame of their exposed position and the sneering comments of passersby.

The remedy for this condition is the storehouse or implement shed. The excuse for leaving machinery out of doors is usually that it is too expensive to build a shed; but this is no excuse at all, as the money lost by exposure in a lifetime would build a shed to house all the tools in the neighborhood, and the investment would work a permanent improvement, whereas in the other case the money vanishes into thin air. It would be cheaper, if necessary, to borrow money for this purpose, as the man in such straitened circumstances would inevitably go further into debt with

the waste of his machinery than with the cost of a shed to house it.

It is not necessary to erect an architecturally beautiful building for this purpose, but simply to build some kind of a shed that is sufficiently large to contain all the implements and tools of the farm and tight enough to protect them from the destructive action of inclement weather.

#### Machines for Cultivating Corn

N. C. Campbell, Brant Co., Ont.

There are many machines that the farmer can get along without, though it is sheer folly to do without them. On any farm where large areas of corn are grown, the two-horse corn cultivator is a machine that comes within this class. For years we cultivated from eight to 10 acres of corn each year by means of an old-fashioned one-horse scuffler. It did good work, but it was hard work on the man and on the horse, and unless the operator had a special interest in the crep, the work proceeded slowly. It became known that fairly good work could be done with an ordinary spring tooth cultivator by adjusting the testh so as to fit the rows. We made a trial of this implement and it did the work so well that for the most part it occupied the place formerly taken by the scuffler. It had its drawbacks, however, the wheels not being the proper width apart often broke down much corn, and it required much care on the part of the driver else much damage would

Finally, quite by accident, we were induced to

### Cannot Afford to Be Without It

Enclosed please find \$2.00, for which give me credit on my subscription. I like Farm and Dairy very much. The various articles published therein seem to have so much of the practical side in them, coming as they do from men who have made a specialty of some particular branch of farm or dairy work on which they write. In fact, I do not see how anyone engaged in any rural pursuit can afford to be without Farm and Dairy in his home, especially since it is published at the exceedingly low price of only \$1 for 52 copies.—N. S. McLauchlin, Huron Co., Ontario

try the machine made for the purpose, and forthwith the other cultivator was laid aside never again to cultivate the growing corn. The twohorse corn cultivator is the greatest machine conceivable for cultivating corn. With its interchangeable narrow and wide points and its protecting shields, cultivation can be given as deep or as shallow, and as thorough, as suits the operator. With its swinging sections controlled by the feet of the driver, a row of corn can be followed and given the best possible cultivation without damage from covering or from the wheels treaking down the corn in the adjoining rows. Words fail one when about to contrast this machine with the old-time scuffler. Suffice it to say that aside from its superior work, the operator is enabled to ride, thereby saving his energy and inducing him to push the work along.

House the Implements.—It is nothing short of folly for so many farmers to invest so much money in farm implements and then leave them exposed to the mercy of the wind and storms. On my own farm, I have 1,700 feet of machine shed toor space. I never allow any implement on wheels to remain in the field over night, as there is a good wide lane the whole length of the farm and a good wide gate to every field, leaving no excuspt for not having farm machinery housed every night and thus saving wear and tear from storms, etc.—E. Terrill, Northumberland Co., Ont.

### Decided Preference for New Machines D. Osborne, Assiniboia East, Sask.

Whenever any of my machinery is getting out of date or is about worn out, I always trade it off, taking whatever, I can get for it. I follow this practice especially with a binder. I traded off my last six-foot-cut binder last year on a new eight-foot binder. I now have four eight-foot binders and with them we cut 700 acres of grain in a little less than 10 days time working nine and one-half hours per day.

The time that it especially pays to have good machines is when we are cutting grain. Then wages are from \$2.50 to \$3.00 a day. Time is money and we realize it when wages are high and the grain is ripe. We can ill afford then to make any stops in order to make repairs.

This year I traded my portable engine for a sew traction engine. I ran the old one for seven years, and I do not remember having lost one hour of work with it or spent \$5 on it for repairs. I could not expect such results with that engine for the next seven years. It has paid for itself, however, two or three times over, so now I have purchased a new engine of the same power as the old one, paying \$1,000 on the deal. The advantages of the traction will more than pay for the difference that it took to make this deal; and then we have not as yet taken into consideration that we have a new engine that will in all probability run for seven or eight years without any expense or loss of time.

#### How to Destroy Wire Worms Thos. D. McGill, Shelburne Co., N. S.

Forty years ago there were a few wire worms in a corner of one of my fields. They gradually spread and drove us from one acre to another until I was cleaned out of that field so far as a crop was concerned. I could not raise potatoes or grain on that land, as the wire worms would destroy the plants. I seeded this down to grass 30 years ago, never to touch it again, as it was so full of couch grass and wire worms.

At last I made the discovery how to destroy both the wire worms and the couch grass. So two years ago I plowed this piece of land and had potatoes on it last year. Not one potato plant was eaten nor did a spear of couch grass appear.

The way to destroy wire worms is to plow the land as soon as the grass has been cut. The field should then be kept perfectly clean by cultivating and harrowing it once a week. The second year of this practice will kill every wire worm, it makes no difference how thick they are. If the



But Here is a Much Better Way

This lower illustration shows Mr. S. A. Northcott, of Ontario Ca., last summer as he was cultivating his field of ensilage, and cultivating his field of ensilage, of cultivaries that we fitte ence with this way of cultivaries the cultivaries of the patience with the other method, also depicted on this page.—Photo by an Editor of Farm and Dairy, on this

land is clear of couch grass, one will not need to harrow so often.

One season is not sufficient time to kill the wire worms, as they can exist on the dead roots of the grass; but the second year fixes them all right.

It is worthy of special mention that after spending over \$2,000 worth of the hardest kind of labor and then to fail, that after the methods I now follow, it costs me only about \$5,00 a year to kill the couch grass and to clean out the wire worms. I can show my fields to-day clear of these pests.

#### Lessening the Work of Hay Making'

C. E. Moore, Peterboro Co., Ont.

Why do so many farmers dread having? It is mainly because of the hard work it occasions. That was what used to bother us. After cutting, the hay was tedded, raked and, if fairly dry, set up in coils. After a few days, these coils could sometimes be drawn directly to the barn; sometimes it was necessary to open them to dry. Under



Hay Loaders Figure Largely in the Work of Present Day Hay Making

time

The modern hay making machinery has made many friends in recent years. The work of hay making is greatly lessened and expediated where the loader and side delivery rake is used.

that method of handling, hay making was laborious and irksome. To-day, through the use of modern hay making machinery, the work of haying has been greatly lessened.

We have used a hay loader during the past four years. No other labor saving machines on our farm has given us so much satisfaction as the hay loader. When properly handled, it will load hay much more quickly and with less labor than when it is pitched by hand.



One of the More Recent Hay Making Tools now Coming to be a Necessity

Where a hay loader is to be used a side delivery rake also is called for, since it is not possible for the loader to work to the best advantage save in conjunction with the side delivery rake. This rake leaves the windrows light and open, so that the hay cures rapidly. It may to a great extent displace the use of the tedder.

One of our clover fields last year on which there was a medium crop, the clover was cut on a beautiful drying day and immediately on finishing with the mower, the tedder was started. About one o'clock we put it in windrows with the side delivery rake and commenced to draw in on finishing the work of raking it. That hay was the best hay we fed last winter.

ECONOMIZING LABOR.

It should be noted that this hay was handled with a minimum amount of work. And this is

\*Mr. Moore is one of the leading dairymen in Peter-boro County. He, with his father, Mr. J. K. Moore, succeeded in taking a good standing in the Dairy Farms Competition last year.

an important factor in these days. Any device that will economize on labor and keep down expenses such as will this hay making machinery, is an important factor in present day agriculture.

Besides the loader, tedder and mower, one other implement is needed for hay making. It is the side delivery rake. Hay cannot be placed in proper windrows fo rthe loader with the ordinary proper windrows for the loader with the ordinary chinery, but on this point we should consider that

the price of the loader and side delivery rake combined only equals that of the manure spreader, which implement so many farmers are now buying.

On our farm, where we practice dairying and keep a considerable number of cows, the afternoons in the fields are necessarily short. The old way of setting up hay was very inconvenient in that the hay was often not all set up at milking time. Now by the use of modern hay making machinery, that thing never occurs, and a large strip of hay can be placed in the barn before five o'clock, which is our milking

We always use two teams when hauling in the No matter how many or how few hands hay. we have, the two teams are always used. This year we are putting basket racks on our two 16-foot flat-bottomed racks. These will be placed on trucks and one man can build the loads. An-

other man will manage the hay forks and another will spread it in the mows. A boy or a girl can drive the horse on the fork and another the team in the field. Thus . with three men and two boys the two teams can te kept going and a considerable quantity of

hay can be stored away

in a few hours.

Thus have we solved in a large measure the problem of hav making. Ever since adopting this system, be it rain or shine, we have managed our hay crop as outlined, and we have had better hay than ever before. We have put it away quickly, saved labor to a large extent and removed considerably the oldtime dread of the hay harvest.

We always cut in the morning, start the tedder right along after the mower before it is through its work. In the afternoon we place the hay in windrows with the side delivery rake and allow it to remain thus over night. In the morning we ted it again to remove the dew, and if the hay is favorable we commence to draw it in about 11 o'clock. If the weather is not suitable, we do not touch the windrows at all, and being in a green state, they can stand considerable wetting before any damage results.

There are two important points to be remem bered when at the hay making. Never cut too much hay at once and do not place it in the mow with any dampness other than its own natural

#### Farm Machinery Up-to-date\*

A. A. McLennan, Glengarry Co., Ont.

In this progressive age when time is money and when we are all rising early to get the lion's share of the crisp dollars, it is necessary that we be up and doing when it comes to a matter of adopting labor saving farm machinery. The progressive farmer of to-day requires a full line of implements necessary to plant, care for and harvest the special crops he raises. As farmers we are becoming a race of specialists, and it is abundantly demonstrated that the farmer who gives special attention to some special line of farming is the one that is among the successful men of to-day.

EVOLUTION OF HAY MAKING,

The system of hay making has undergone great changes in recent years. Today we find our more progressive farmers using the wide swath rapid cutting mowers; following these with the tedder and the side delivery rake, elevating the hay onto the wagon with a hay loader and unloading it in the barn with the horse fork and its accompanying equipment-all this work being done with a minimum expenditure for labor and being done much more ravidly than was possible when old-time methods were used. Under favorable weather conditions, one is enabled by means of this modern machinery to handle a large hay crop with very little manual labor. The old-time practice of coiling hay has been practically abandoned by many of our farmers and they claim to make better hay to-day than ever before.

While much has been done to facilitate the work of haying, harvesting has by no means been neglected. Fast cutting binders taking a swath of six or seven feet, these binders often being equipped with fore-carriages, make the farmer smile as he sees the sheaves tumble out and being brought into rows all ready for the stooker. In these days of morning and evening chores and an aggravated hired help problem, these labor saving machines are most welcome, and though costly, they soon prove to be indispensible.

OPERATES A COMPLETE LINE.

These things as outlined all apply to my own farm. We farm extensively and have a full line of the best and latest labor saving machines. Probably the first one that might be mentioned, since it is used first in the season, is the plow. On the ordinary farm, a two-furrowed plow is a financial necessity. It saves time and does more and often better work than is possible with any single plow. The 13 or 15-disc drill, speed-feed seeder is used and is speedy and accurate in sowing, and makes a better finish on every field sown than is possible with other styles of drills.

As for having machinery, we find the long-cutting-bar mower cuts better and runs smoother over the fields and lasts longer than the shorter cutting-bar mowers. It is a great saver of valuable time, and it costs very little extra in the initial outlay. We find the reversible side delivery rake a very useful implement. With it we can go over the hay the next day after cutting in the morning, thereby tedding it, and with the same implement in a few hours gather it up in straight windrows for the hay loader. One man with a hay loader will load a ton of hay in less time than can two men without a loader. The loader also saves the time of coiling. By means of the loader and side delivery rake just as good hay can be made in half the time required by the old-fashioned way.

All this machinery must be housed when not in use else it deteriorates with great rapidity. Any progressive farmer once having invested his money in these up-to-date machines should not fail to make a further investment of a suitable shelter under which to house them. The machinery needs to be kept in first class repair if it would give good satisfaction.

\*Mr. McLennan is one of the prize winning farmers in the Dairy Farms Competition of last year.

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#### A REMINISCENCE ABOUT SOME FARM MACHINERY PURCHASES

N. C. Campbell, Brant Co., Ont.

#### Some Machines That One Can Get Along Without, But Which Afford Most Remunerative Investments-A Comparison, East and West

HE money one locks up in implements totals a very tidy sum. In fact, it almost startles an ordinary mortal to reflect upon this subject, and we go very cautiously, often far too cautiously, in adopting the new machinery that is becoming essential to the profitable working of our farms. I have in mind such implements as the



Clearing an Experimental Farm

The work of clearing the Experimental Farm at Monteith, in New Ontario, is being pushed vigorously. So far the timber has been cut on 102 acres, of which is are now under cultivation. When an editor of Farm and Dairy was at the farm recently, with the members of The Canadian Press Association, it was noticed that of the Canadian Press Association, it was noticed that being burned. The control of the Canadian Press Association, it was noticed that the Canadian Press Association, it was noticed that the Canadian Press Association, and was not of them. Notice the character of the Canadian Press of the Canadian P

manure spreader, the two-horse corn cultivator, the bundle carrier, and wide, fast working implements. Our experience with these things may prove of value in helping some Farm and Dairy readers to solve these problems, hence this reminiscence.

I well recall the day we got a manure spreader. We had talked of it for fully two years before, but could not make up our minds to invest \$135 in a machine that would be used only once in a while, and which we could get along without. The question of a manure spreader was a live one on all occasions when the neighbors got together. Some agreed that the manure spreader was a good investment, others thought that it would pay only on large farms.

#### LARGE RETURNS ON INVESTMENT.

We had upwards of 150 loads of manure a year to spread, and it did not take much riguring to convince us that by saving the disagreeable labor of spreading this manure; of having the manure spread as soon as taken to the field, rather than having it lying around in small piles awaiting a favorable opportunity to be spread; being enabled to apply the manure at any rate from three to 15 loads per acre—the manure spreader would be a good investment and would return dividends of at least 15 per cent and possibly a great deal more. So at last the manure spreader became a part of our farm, and we have never ceased to bless the day that we saw fit to make that pur-

The machine took right from the popular with all, right from "the wn to the hired man, who, by the way, too new interest in living when he had this masterne with which to perform the unpopular but very necessary work of spreading the manure.

One of the most ingenious labor saving devices, which now has become quite common and which until a few years ago many were content to do without, is the bundle carrier-that attachment for the Linder, which means more work for the driver but a great saving for the man who shocks the grain. Its other advantages are evident when it comes to hauling the grain, for the shocks where the carrier has been used are laid in windrows from which a load may be taken without driving over a considerable area otherwise necessary to get a load. In over-ripe grain, too, it is a great advantage, for it saves greatly from shelling, in that the falling of the sheaves is greatly reduced when the carrier is used.

#### WHY DID WE DO WITHOUT IT?

Considering its many advantages, it is a mystery why we did without this machine for so long a time and why so many even yet will do without it. After one has spent, say \$140 for a binder, the additional \$8 or so required to buy the carrier looks like a tidy sum, and since the carrier is one of those thngs which can be done without, I suppose that is why it is done without. Be it known, however, that this device on an ordinary 150-acre farm in an ordinary year will return 100 per cent on the investment; on any 100-acre farm in any year it is capable of returning dividends to several times the amount of bank interest.

Other machines in number might be touched upon in this reminiscent way. But the three as dealt with are the most outstanding. As yet



Buildings on the Experimental Farm

The buildings on The Experimental Farm at Monteith The buildings on The Experimental Farm at Monteith in New Ontario, are here shown. Monteith is about 400 miles north of Toronto in the clay beit. The farm comprises 400 acres of land similar to that here shown. There are still S3 acres uncleared. Harm promises to be of great value to the settlers in New Ontario. It is a great country that needs to be better advertised.

the hay loader has not become a part of our equipment, though I verily believe it would pay and that we shall soon have it.

While on this strain, there is another matter that should not pass unnoticed. I refer to the introduction of fast working implements. The idea has been abroad since the early days that wide rapid working tools are suitable only for the West. Owing to the small fields, stumps and stones, it is often thought that wide implements and fourhorse teams could not be worked to advantage. These conditions, however, should have no place upon the Ontario farm, for they need not be, and it is profitable to overcome them

#### WIDE, RAPID WORKING IMPLEMENTS.

The implement of moderate width, and which three horses can comfortably haul, has for a numter of years been growing in popularity. man who can drive a three-horse machine, however, should be able to manage a four-horse team and a correspondingly wider machine. "Too much horsepower," I hear someone say, "and horses are high in price and expensive to keep." Yes, quite true, but on the average 100-acre farm and on all farms of larger size, at least four work horses are available. So why should not these

four work together and thereby save the time of one man? The four-horse team and the fast working implements are quite practical for the Ontario farm, as it is becoming to-day, and, in fact, the number of farms is increasing yearly whereon four-horse teams and these rapid working implements have become even commonplace,

#### LAND VALUES AND MACHINERY

While on the western prairies a few years ago, I was non-plussed to learn that farm land adjacent to the main line of the C. P. R. was selling for from \$40 to \$50 an acre. On expressing surprise that such high values should there exist, I was informed that the land was worth it, for a man could go out on it with his four-horse team, two-furrowed plows and wide implements, put in his grain with a minimum of labor and the harvest returns were such as to amply reimburse him for the investment made. I thought at the time why should these same conditions, as far as machinery and labor were concerned, not apply to the Ontario farm, for the products of which there is a much nearer market and better prices? I came back to Ontario fully convinced of the utility of all reasonable labor saving implements and farm machinery and have since been responsible for the adoption of much of the same on our Brant County farm.

We recognize the fact that these implements cannot be had without capital, and that many who would otherwise bring their establishments up-to-date in this particular lack this necessary capital. Countless others, however, have the capital and are eagerly seeking gilt-edged investments for it. To those I wish especially to direct these remarks. All told, if we farmers of Ontario are to keep in the race, we must adopt all reasonable labor saving machinery and fast working tools, and should we lack the necessary courage or capital to make these investments, we should set out forthwith to secure one or the other or both as needed.

Keeps Farmers Poor .- With care and attention-storing, oiling, painting and repairingmachinery can be maintained in good working condition three years for every one it lasts in less provident hands. The saving in money is apparent. How far neglect of farm machinery is responsible in keeping some farmers poor would be difficult to estimate. It is a significant fact, however, that almost invariably it is the poor farmer who countenances such neglect; his more



School Children in New Ontario

School Children in New Vatarie
Some of the school children at Cochrane, in New
Ontario at the junction of remiscamingue and Northern
Ontario Raifrond with the National Transcontinental
Raifrond, are here showed in the control of the school in the control of the school in the control of the

thrifty neighbors fully realize that such practices would work their ruin.-Mac. C. Cutting, Associate Editor, "The Farmer," St. Paul.

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### Towers Girted every five feet apart and double braced Pumps

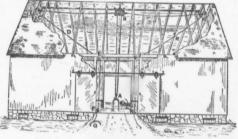
Grain Grinders Tanks Gas and Gasoline Engines Concrete Mixers Write for Catalogues

GOOLD. SHAPLEY & BRANTFORD, - CANADA Hay and Grain Unloading Tools H. Ralph St. sle, Sales Mgr. Louden Machinery Co.

Farmers in general often do not give the matter of hay tools the care and consideration they should. Beand consideration they should. Because they are small machines and cost less money than binders or manure spreaders is no reason why they should not be oiled and kept in the best possible repair. The fact of the matter is, if slings are used and both hay and grain handled by the carrier, they will spread to the color of the colo they are small machines and

extra durability of the steel track is e-tra durability of the steel track is above question, as is the greater ease with which the carrier will operate on the steel track, and then there is also the doing away with the fraying of the wood track, the extra space saved in the peak of the barn, and above all the way in which the earnier can be fitted to the steel track which

Cares for His Machinery



Full Arrangement of an Unloading Device in a Centre Drive Barn

Anti-Trust Prices Freight Prepaid on FARM and TOWN

**Telephones and Switchboards** Wire, Brackets, Insulators, Tools, Lightning Arresters, Ground Rods, Batteries, Insulated Wire, and everything necessary. NO CHARGE for our experts letters of advice, drawings, explaintechnical, just how to build, own and openie your rural, town or long distance lines in a good but economical way and at a profit, thereby getting your own tele-bunn free.

the fargest, exclusive and the ordy bona-fide independent Telephone bloard makers in Canada or Grea Britain. clephones are extensively used in Canada, England, France and by the gramment.

Our Telephones are extensively used in Canada, Engiand, France and by the U.S. Government.

Our great illustrated book on the Telephone sent Free to anyone writing us about Eay new Telephone lines or systems being talked of or organized.

We have a splendid money-making proposition for good agents

ion Telephone Mfg Co., Ltd. Dept. D, Waterford, Ont., Canada.

Fall Arrangement of an Unleading Device in a Centre Drive Barn is always exact in size, while the wood track, although it is supposed to when it is not in use will last a perbe 4st, is apt to vary a great deal so that the state of the stat tightened by the he short slings and to mention the rovement over and tightens better way in which the rack is cleaned

slings The arrangement of pulleys is a matter of prime importance. In a centre drive barn, as shown in the centre drive barn, as shown in the illustration, the pulley hooks at C and H should be screwed into the collar beam as shown in the small cut. This collar beam should be spiked to the last pair of rafters from each end of the barn. On these hooks the pulleys C and H are hung. The collar beams may be 2x6 or 3x4, or 4x4 chamfered off thin at the ends, so that they can be properly spiked to the rafters. It is a poor plan to screw the hook into one of the rafters because in heavy work it is liable to pull out a single rafter. The arrangement of pulleys is a

lustration from the car B, through pulleys C, E and F to whiffletree bulleys C, E and F to whilletree G.
When it is necessary to deposit the
load in the other mow, the pulley C,
which should be on a pulley changer,
is carried to the other end of the barn

rafter.
The draft rope is shown in this il-



A Collar Beam to Support Pulley

and put on book H. The draft rope may then go from B through the put-leys H and J, or from pulley H are be-leys H and J, or from pulley H are to E, and so down to the whiffletree. In this way no climbing will be re-quired after the carrier is installed. In the end hoist barn it is better to bring the rope through a small open-ing in the side of the barn just below the plate and down to the ground as and put on hook H. The draft rop

the plate and down to the ground as the place and down to the ground as hear as can be managed to the end of the barn furthest from the hay door. The draft will then be more direct and less rope will be required.

that is kept in a barn or under cover when it is not in use will last a person for nearly a lifetime.

Before starting to work with any implement, I always have it thoroughly overhauled and all nuts tightened. If harrow teeth become uneven in length, they are replaced with new ones. In all cases, the harrow teeth are sharpened before starting in with the spring seeding.

As soon as we finish plowing, we go over the mouldboards with an oily cloth. The same is done with our drills; the shoes are oiled if it be a said drill, and in the case of a discribing the seeding. The we have no trouble whatever the seeding out to work; our plows close a well and the shoe drill or disc goes off sick right from the start without any loss of time.

O.A.C. June Excursions, 1910

Monday, June 6—C. Wellington; S. Huron; W. & N. Bruce & N. Grey. Tuesday, June 7—N. Wentworth. Wednesday, June 9—C. Simcoe; E. Huron; Welland (T. H. B.). Thursday, June 9—E. & W. Peterboro & E. Durham; Pr. Edward & E. Hastinoz.

Friday, June 10—Haldimand; N. & Perth; W. Huron. Saturday, June 11—Lincoln; Wel-

Iand.
Monday, June 13—N. Ontario.
Tuesday, June 14—W. Middlesex;
W. Kent; E. & W. Lambton.
Wednesday, June 15—E. Elgin; W. York; N. York.

Thursday, June 16—E. & W. Vic-pria; S. Norfolk. Friday, June 17—S. Grey & E. Wel-ngton; W. Simcoe. lington; Saturday, June 18-Halton (C.

P. R.)
Monday, June 20—N. Oxford; W.
Monday, June 20—N. Oxford; W.
Wellington; E. Simoo,
Tuesday, June 21—Dufferin & E.
Wellington; E. Middlesex; N. Middlese

Weilington; B. Sunday.

Sex.
Wednesday, June 22.—S. Oxford; N. & S. Brant; S. Ontario & W. Durham.

Thursday, June 23.—N. & S. Water-loo; Peel; Parry Sound.

Friday, June 24.—E. York.

Saturday, June 25.—S. & C. Bruce
 & Union; C. Grey; Halton (G.T.R.).

It is rumored that Prof. H. S. Ar-kell is resigning his position as Pro-fessor of Animal Husbandry at Mac-donald College, St. Anne De Bellevue.

I have taken Farm and Dairy for four years and like it for its dairy and agricultural reading. I enclose \$1 for my renewal.—J. F. Shaw, Norfolk Co., Ontario.

## THERE IS NO BETTER WAY

To Handle your Hay or Grain than to use Centre Trip Slings with the

### LOUDEN JUNIOR SLING CARRIER

This Carrier runs on our Double Beaded Steel Track, but can also be fitted for a 4 x 4 wood track. It is the most reliable Carrier made and always holds the bundle. It is a triple draft. Write for Catalogue and Prices to:

#### Louden Machinery Co. GUELPH, ONT.

Manufacturers of Hay Tools, Barn Door Hangers, Feed and Litter Carriers, Cow Stalls and Stanchions and Hardwear Specialties.

Buy the Harrow with the greatest capacity and lightest draft

## The "Bissell

Thousands of Canadian Parmers have tested the "Lissell" Disk Harrow in the same field with other makes and found that the "Bissell" has the greatest chapacity and lightest draft. But the greatest shape of "Bissell" Plates they cut into the ground easier. They the precise is about 50 miles of the considerable of the plates "Chief Balbon," and for set it on edge. The "Bissell" does clean work where others make a ragged job of it. Steel scrapers meeting the edges of the plates "Chief Balbino," and "movable" cold rons keep the machine free from dirt or trash. The "Bissell" stays right down to its work. It won't bind, buckle or hump up the centre, no matter how stiff or hard the soil may be. It is built to withstand the hardest mage. A simple method of balancing the driving of the stay of the centre of the c

See roller ad. on page 19 of

T. E. BISSELL Company, Limited ELORA, ONT.

#### Re-Seeding Pasture-Alfalfa

Re-Seeding Pasture—Alfafa
Will you kindly advise me in regard to
the following: I have a flat springy corner in my field that the grass is getting
nearly bound out, and I want to plow it
the first manner of the flat spring the
transport of the flat spring the
grass would you stock with, the soil is
grass would you stock with, the soil is
grass would you stock with, the soil is
grass would you stock with, the
only back (or mucky)?
Do you think alfafa could be grown
down in this province? Several around
to get it started. I should to to seem
to get it started. I should the
small piece next spring. Will you kindly
small piece next spring. Will you kindly

small piece next spring. Will you kindly tell me how to prepare the land, whether broken up or old plowed.—F.L.B., Stan-stead Co., Que.

our best plan would be to let the Your best plan would be to let she field run through this summer till about August, then plow with a rather shallow furrow, roll two or three times,



Cutting a Heavy Swath of Alfalfa The illustration shows a mower at work in a field of alfalfa on the prize winning farm owned and worked by Mr. F. Birdsall, of Peterboro Co., Ont.

disc harrow two or three times, performing these operations alternately, and harrow at intervals until about the middle of October, when you might re-plow or, better still, rib up as if preparing for roots. Apply manure on this ribbed land during fall, winter or spring, at the rate of about 15 tons an acre, then the next spring, as early as possible, break down, mix the mannels. The surface soil and sow to man the surface soil and sow to the surface soil and so to the surface soil and so to the surface soil and so the surface soil and surface soil and soil and surface surface soil and surface surface soil and surface surface soil and surface disc harrow two or three times, per-

The best plan is to sow after a crop The best pian is to sow after a crop of roots, potatoes or corn. To give the crop the best chance possible you should not use a cover crop but sow it alone about the end of June.—
J. H. G.

#### Are Young Dairy Sires Desirable

Is it in the interests of the best dairying to use a Holstein bull that is not yet two years old? I would be very glad of to use a Hoistein bull that is not yet two years old? I would be very glad of the opinions of a high class practica? man on this point, as in this neighbor hood farmers seem to think that one year. yet a balf is a sufficient age—E. K. M., My observation and experience, dur-

My observation and experience, during nearly 30 years close study has long since led me to the conclusion that, individuality is a nuch more important factor, than age. I would prefer a 15-months-old bull, if he possessed strong individuality and vigorous constitution to a weaking even if he were three or four years old. Of course, judgment must be exercised in not overtaxing the young sire.

a year-old, I would prefer the latter, since you are a year ahead to determine his value. Yearlings and two-year-olds are only an experiment at best as successful dairy stress, and if the property of the pr since you are a superiment at best as successful dairy ares, and if you prefer to be certain of success you must use the aged and tried sire, which, alsa, is too seldom done for the best interest of dairy breeds; although not that good results cannot be obtained from young sires.

The best cow I ever raised was the first call from a yearling sire, and it out of a two-year-old helifer. Both it out of a two-year-old helifer.

it out of a two-year-old heifer. Both sire and dam were strong, vigorous

animals, and so was their calf, or she could never have produced as she did. And yet so-called authorities and college professors tell us that caives from two-year-old heifers, are not from two-year-old heifers, are not worth raising. From close observation I can give stacks of positive proof that I can give stacks of positive proof that offspring of vigorous heifers and young cows are much preferable to the off-spring of these same animals when neat their prime.—H. Bollert, Pres. H.-F. Breeders' Assoc., Oxford Co., Ont.

#### Suitable Farm Power

M. E. Maybee, Hastings Co., Ont.

M. E. Mayore, Hastings Un. Unit.
All things considered, where electricity is not available, the gasoline engine gives the best satisfaction as a farm power. We have a 5 H. P. gasoline engine. From our experience I am convinced that a 5 H. P. engine is about the virbicity of the control of t I am convinced that a 5 H. P. engine is about the right size where it is to be used as a power of general utility to answer all purposes. One can use a larger engine to advantage when grinding grain or when filling the silo with a blower. On the other hand, however, for running the smaller machinery, the larger power resolves chinery, the larger power resolves itself into a waste of fuel and power. resolves

Those of us engaged in dairying posthose of us engaged in day sibly require some special power more than do farmers engaged in other lines of farming. The purposes to which the dairyman can put power are many and varied. He may grind his own grain; not that he can do it so very much cheaper at home, tut it is very much cheaper at home, but it is a matter of convenience. Secondaria a matter of convenience of convenience and inferent mixtures of grain may be referred in the convenience of the compounded in various quantities, in which case the chopping can be handled more satisfactorily at home than if taken to the nearby, or more generally distant, grist mill.

A suitable power comes in most advantageous for filling the silo and most up-to-date dairymen have silos. Now-a-days in view of the scarcity of help that prevails, we farmers need

help that prevails, we farmers need



A General Utility Farm Power

The 5 H. P. gasoline engine illustrated is at work on the farm owned by Mr. M. E. Maybee, Hastings Co., Ont., who gives in the adjoining article his opinion of gasoline engines.

sessed strong individuality and vigorous constitution to a weakling even if he were three or four years old. Of the were three or four years old. Of we can run it with less help and at the course, judgment must be exercised in not overtaxing the young sire.

I am now, my own herd, using two sires, six and ten years old, but an not prepared to say that their calves now are any stronger than those which they sired as year-olds.

The value of a dairy sire can only be judged by the performance of his help did not be indiged by the performance of his help converged. Since, in my experience, at wo-year-old is no better than separator and circular saw are all run separator and circular saw are all run independent of help as pos

### The Full Percentage of Cream

Getting the full percentage of cream from milk depends as much upon the oil used to lubricate the separator as upon the separator itself. Gummy oil will cut the fine bearings of your machine, spoil its balance and waste good cream in the skim-milk pail.



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from Innightal the largest DAIRY emission of western data. It is largest to the property of th

H. F. LINDE, Box 44, WADENA, Back

#### \*\*\*\*\*\*\*\*\*\*\*\* HORTICULTURE

} \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Machinery and the Potato Crop

V. Patch, Jackson, Mich., U.S.A. V. Patch, Jackson, Mich., U.S.A. Although the potato has been grown in England for 300 years, it has been cultivated generally only for about 100 years, which is also true a Canada and the United States of America. Being the only vegetable that contained starch in any consider-thal contained starch in any consider-thal contained starch in the smallly canada.

America. Being the only vegetable that contained starch in any considerable quantity, it has rapidly gained a place with the cereals also plays and respectively as a respective place of food. Nor is the potato on substitution as a food stuff—it also plays an important part in the production as a food stuff—it also plays and pared starch and in some countries in the manufacture of denatured alcohol. No other field offers such an inducement of the substitution of the substitution of potations, and the field offers such as induced as to the farmer, if he has suitable soil, as the field offers such as induced as to the farmer, if he has suitable soil, as the field offers such as induced as the field offers such as the field offers and the field offers and the field offers and the field offers and the field of the fie 10 it was an especially good paying crop the following season.

MAKING THE CROP PAY.

The introduction of labor saving The introduction of labor saving machinery for handling the tuber is what has made the potato crop a paying one, as it is entirely out of the question to try to raise them without the proper equipment. The extensive the proper equipment. The extensive grower can very easily afford to in vest in an outfit of these machines. It yest in an outfit of these machines. It is the small grower that hesitates. Often this obstacle can be overcome by several growers clubbing together and buying a machine.

oy several growers chubung together and buying a machine.

The planter will plant from five to eight acres a day; hence eight or 10 farmers with an average of 10 acres get their crops in very little tool and should always accompanie. A cutter is a very useful little tool and should always accompanie. The planter.

In Aroostook County, Maine, U. S. A., where potato growing has been the leading industry for some years and they have made a special with the planter, and they have made a special was been as high as 480 bushels and has been as high as 480 bushels and one acre, while in the irrigated districts in the west of the United State of America when careages have been even greater. the acreages have been even greater. However, the Earl of Rosebery, the potato wizard of Scotland, certainly potato wisard of Scotland, errising beads the list, reporting the state of the stat

good profit to the grower even at a moderate or low price.

There is necessarily much labor in raising potatoes after the planting is over, as in nearly all localities now the potato bug and blight means the fought, and if any considerable acreages are put in it must be done because the property of th

FIGHTING BUGS AND DISEASES.

For fighting the potato bug, Paris green is, of course, the old stand-by, but a good many are now using ar-senate of lead, claiming as an advan-

tage in comparing with Paris green that it will not burn the foliage. It is also said to be stronger, hence more effective, and at the same time is less expensive. For blight, Bordeaux Mixture still seems to be generally considered as the best. The important thing in spraying is to spray early for it must be remembered that spray for it must be remembered that spraying is a preventive rather and a cure. Just at this season this is the all important subject for the funding his portant subject for the funding his other crops demand more that the funding his other crops demand more that tention, for it may mean many subject at tention, for it may mean many subject and the funding the funding

grown without labor and much of it, yet by using the proper equipment it will—taken one year with another— bring the most remunerative returns of any crop the farmer can put in.

There is a feeling among certain orchardist that the formulas for spraying mixtures can be changed at will. This is a mistake. The wiser plan is to leave the formulas alone, and to mix the ingredients in the proportions and manner recommended by experts. and manner recommended by experts. There is chance of danger in meddling with the standard formulas, especially by persons unacquainted with the chemistry and effects of insecticides and fungicides.

The St. Lawrence Apple

In my orchard, I have two rows of St. In my orehard, I have two rows of St. Lawrence apples, which are not bearing. They are about 29 years inches in dhealthy, over eight to nies inches in dhealthy, but and a straight of the state of the straight of the state of t

The St. Lawrence apple is not, as a rule, a good bearer, and that is one rule, a good bearer, and that is one reason why is not more grown. Our experience here not have the some conditions, however, the same conditions, however, the same conditions, however, the same concept as the same conditions, however, the same concept as the reason conditions, however, the reason condition of the same conditions, however, the same conditions are same conditions. It is naturally a strong growing the growth as the same conditions are same conditions. The same conditions are same conditions and the same conditions are same conditions. being cultivated, we would suggest leaving it in sod. Some summer prun-ing might also be done in order to check the growth. The case in ques-tion seems to be an extreme one, but, as stated before, the St. Lawrence is a anturally sph bearer.—W. T. Ma-coun, Horticulturist, C. E. F., Ot-

Have you forgotten to renew your subscription to Farm and Dairy?

### O.K. CANADIAN 4 ROW SPRAYER



Sprays four rows while you drive; no hand pumping to do. Wheels and noz-zles adjustable for wide and narrow rows. Can be adjusted to spray vines 6 inches to 21/2 feet high. Can be furnished with Broadcast Vineyard and Tree spraying attachment.

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Dairy, for you applie BULBS ter pr Morga EGGS fr soll, O

#### \* POULTRY YARD

#### Co-operative Fresh Egg Circles

A movement looking towards the co-operative handling and selling of eggs operative handling and solling of eggs is well under way amongst the farm-ers in the vicinity of Peterboro. A number of representative farmers of the district were called together by Farm and Dairy to discuss the project, information concerning which was set-forth on page 3 in Farm and Dairy last work. last week

Among those present at this preliminary meeting were Messrs. Sam.

#### This Special Issue

We anticipate that there will We anticipate that there will be a considerable demand from non-subscribers of Farm and Dairy for copies of this Special Magazine Issue with its illustrated section. Extra copies, therefore, have been printed. They may be obtained for 10 cents each by addressing Farm and Dairy, Peterboro, Ont. Our regular subscribers re-

and Darry, Peterboro, Ont.

Our regular subscribers receive this issue and will receive
other illustrated sections and
magazine issues without extra charge.

charge.

The next illustrated section of
Farm and Dairy will be published within about a month.

Advertisers will do well to apply
for space at an early date.

Devell, T. Hunter, S. Matchett, D. T. Young, J. H. Garbutt, J. A. McGregor, Wilbur Bennett and C. E. Moore of Peterboro; Henry Stulbs of Bridge, north; E. Jory, Lakefield; Mr. H. C. Duff, district representative of the Department of Agricultary Norwood; Wm. H. Elford, Peterboro; J. I. Brown of Montreal, and members of the editorial staff of Farthennet of Agricultary After discussing the project of several hours, those in attendance unanimously decided that the scheme was one of large possibilities and one of an ending the series of the control of the control of the country farthens. The deliberations crystallized in the form of resolution approving of the principle as set forth and resolving that the project was such as to be heartily supposed.

#### Elm Grove Poultry Farm

Guaranteed Fertile Eggs for sale from the following breeds: Rose Comb Brown Leg horrs, Silver Grey Dorkings, Light Brahmas Barred Rocks, Mammoth Bronze Turkeys, Embden Geese, Rouen Ducks. Send for Catalogus

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for new subscriptions. A set-ting of eggs of any standard variety of fowl, given away for two new subscriptions to Farm and Dairy. Send to Oir-culation Manager, Farm and Dairy. Peterbore.

ported and worthy of being discussed further at several local points where the matter could be laid before the

the matter could be laid before the farmers and local producers. It was decided to hold meetings at Central Smith, Pine Grove, N. Monaghan, Stewart's and at Zion. At the time of writing, the first meeting only, that at Central Smith, had been held. It was very successful, and much encouragement was thereby meeting the movement. The other meeting the movement. given to the movement. The other meetings as announced will be reported fully in these columns next week. Those present at the Central Smith meeting, after the project had been laid before them and freely discussed, decided that it was in their best interests to organize. To that end most of the farmers present signified their intention of supporting the scheme and elected a provisional Loard of directors to complete the work of organization.

#### The Care of Ducklings

The Care of Ducklings
Duck engine require 28 days for incubation: Museuvy eggs being the
only exception this rele, they require from 30 to this rele, they can
meal, bran and ground to asted bread
or crackers. A little sand added to
this ration takes the place of the lateroyster shells. Feed if sparingly dampened on boards laid flat in the runs
or near the old hen that broods the
bunch.

Little ducklings are always hungry

bunch.

Little ducklings are always hungry and must be fed for the first week everable of the first week everable of the first week everable of the fed for the first week everable of the fed for the first week everable of the fed for the fed for

#### Co-operation in Denmark

Co-operation in Denmark
If evidence were required for the
contention that poultry keeping would
be of increased value to English farmers by a system of co-operation, the
facts which Denmark supplies should
be the last word needed, for the wonderful success which has attended ex-

be the last word needed, for the wonderful success which has attended experiments in that country is as great
as any English farmer could wish for.
The conditions in Denmark for poultry farming are not so good as thosein England, and in addition to this
the size of Denmark is only half that
of Scotland. Yet Denmark exports
annually more than a million pounds'
worth of eggs to this country.
The export trade from Denmark is
good and the prices obtained are so
high that the Danes themselves use
Russians are the size of the size of the size of the
Gggs were size in the size of the size of the
from Russia, and the laws of Denmark
from Russia, and the laws of Denmark
make it quite impossible for these eggs
to be re-exported. to be re-exported.

to be re-exported.
Until the year 1864 the poultry trade in Denmark was as neglected as it is in England to-day. At that time the only hea known in Denmark was the Danish land hen, which was only a moderate layer, and whose eggs were very small.

The conflict with Prussia made the ods of The conflict with Prussia made the Danes turn their attention to some means of economic development. They determined to increase the resources of the country by the production of, among other things, eggs. In 1875 the Leghorn breed of fowl was introduced, and is now the wational hird

and is now the national bird.

The following table shows how the Danish export trade in eggs has in-

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Date.																				1	Va	lu	e.	
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co-operation among English farmers. The adoption of coods of co-operation among English poultry farmers. The adoption of co-operation among English farmers and others and the cultivation of poultry would restore to England the whole of this Danish trade in a very short time.

#### Hens Lay Soft Shelled Eggs

What is the cause of hens laying soft shelled eggs, the hens being fed whole corn, wheat and buckwheat, with free ac cess to sand and old plaster?—W. S., Oxford Co., Ont

1887 262,514
1896 561,444
1999 6761,445
1999 789, 1898,239
The success of the egg trade in Denmark is due principally to co-operation among an Isramera and peasants. Everyone in Denmark keeps after hens, but they combine to market their produce at the cheapest posible rates.

The National Poultry Organization are trying to establish the same meth-

### CROP PROTECTION

#### The Gun for the Farmer

You can protect the acres of corn and oats or whatever you grow, from the crows and other pests that are such a nuisance to the farmer. Weasels, Gophers, Hawks, Blue Jays, Rabbits, Woodchucks, etc.

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the little kinks—the fine points that get them big scores.

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### FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.

I. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern of the Western Ontario, and Bedford District, Western Ontario, and Bedford District, the Canada Agrantic Agrantic and Jer-sey Cattle Breeders Associations.

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FARM AND DAIRY PETERBORO, ONT.

#### ECONOMY IN FARM MACHINERY

The farm labor problem, which in many instances in recent years reached solution. Fewer men are now employed than formerly on the average farm, and such men as are capable of handling several horses attached to fast working implements and machinery are the kind wanted. Men of such capabilities cost more to hire than do the average sort, but they are worthy of their hire, as Mr. Anson Groh ably points out in the article on page three of this issue.

That we as farmers generally are coming to a fuller realization of this idea is evidenced in the great and growing amount of machinery that we now believe to be necessary on any well equipped farm. Those of us today who are making the greatest head- frequently exposed in this way. way and who are the strongest believers in the farm as affording an allround life work are the men who adopt all reasonable labor saving machinery and devices which have been placed upon the market.

A man advanced the opinion recently to an editor of Farm and Dairy that farmers have been getting alto- circles.

gether too much machinery. With als, he was wrong. No better invest- market for their produce is assured. chines which are now becoming com- well to follow the example being set mon and the great value of which is by the farmers of Peterboro county. attested by the very fact that so many of them are being bought by our con- NEGLECT THAT TENDS TOWARDS servative, hard-thinking farmers.

The aim to-day should be to transfer all the labor possible from the man or men to horses and to the various forms of labor saving devices and machinery. To do this is true economy. For this reason it often pays to look carefully through the catalogues of the manufacturers of farm machinery. They nearly all contain helpful suggestions. Why not write for the catalogues of some of the firms advertising in this issue of Farm and Dairy. They are furnished free and may prove of value to you.

#### CONDITIONS OF THE EGG TRADE

Seventeen per cent. of the eggs gathered by the largest produce firm in Canada are consigned to the dump. This represents a great waste. The loss, owing to transportation charges, labor, commissions of various middlemen and other similar causes, is much greater than the current market value of this quantity of eggs. Who bears this loss? It is not, as a rule, the produce firm.

The principles upon which our egg trade is conducted are radically wrong. The loss that results is caused by the neglect of many trifles which when summed up make a large aggregate. The producer is not the only one at fault. One illustration will serve to fix the responsibility for part of the trouble and loss elsewhere. A leading produce merchant in the city of Peterboro last week was making a specialty of fresh laid eggs. He put them in his window immediately behind the plate glass. Shortly after noon the sun was shining directly on these eggs. The temperature they were in must have ranged about 100 degrees for most of the afternoon. Unan acute stage, has worked its own der such conditions it would not be long before those eggs would be ruined. The merchant did not realize that the germs in the eggs were being started well on the way to incubation and that every moment they remained in the

> How much fancy butter could that merchant have sold at the current market price had he put it in the window beside those eggs? The corners of the prints would soon have rounded off, and the quality be lost. No merchant would think of exhibiting butter in this way; yet, because the eggs have shells, although their quality is as rapidly destroyed, they are

There is much to learn about the egg business by dealers and merchants as well as by the producers. A general campaign of education has long been due. In order to market eggs at the best possible price, the farmers in several districts near Peterboro are organizing into co-operative fresh egg

Mention of this is made in the poul- and the former involves only onethe exception of only a few individu- try department of this issue. The ment can be made than that of the The movement is worthy of hearty recently invented labor saving ma-support. Farmers elsewhere will do

### POVERTY

How long does some of our more expensive and most important farm machinery last? How long does a binder last? How much service can we get from a manure spreader, a side delivery rake, a hay loader? These are questions we all ought to ask. The answer would invariably be, "Not as long as they should." In many cases the failure of this machinery to last anywhere near the time it should helps to keep its owners poor.

How long does a binder last? From one to three months will take in its average life of usefulness! Ten days is time enough to cut the grain on the average farm each year. In six years this would amount to two months; in 12 years, four months; and there are few binders, speaking generally, that are not consigned to the scrap heap long ere that time.

This remarkably short life of the binder-the same is true of some other machines-is due almost wholly to neglect. Failure to house the machinery when not in use, failure to oil it well and often, failure to keep it in the best repair, these three work its ruin. Oil is the cheapest commodity that will help to preserve machinery we can buy; repairs are very expensive when done without, and a suitable implement shed in these days of much expensive machinery affords one of the best investments that can be made.

#### INTERESTING COMPARISONS

The results of experimental work based upon the value of the cow, milk, butter fat, calf and manure, and also upon the cost of feed, labor, depreciation on cow, interest, taxes, housing, etc., indicate that under ordinary farm conditions and with the product sold on the common market, a cow must produce approximately 4,000 lbs. of milk and 160 lts. of fat to pay for the feed and labor. In other words, this is the dead line. Cows producing less than this are kept at a loss. For window they were rapidly deteriorate every 1,000 lbs. of milk produced above 4,000 lbs., the cow returns a profit of \$10.

These figures, which are advanced by Wilbur J. Fraser, Chief in Dairy Husbandry at the Agricultural Experimental Station, Urbana, Ill., afford a ready means whereby we can figure out the approximate profit from the milk of any cow under ordinary conditions. Valuing the milk at \$1.00 a 100 lbs. a cow that produces 10,000 lbs. of milk, returns a profit of \$60, or six times as much as the cow producing 5,000 lbs. of milk. A cow producing 5,000 lbs. of milk brings in a profit of \$10, while the cow producing 8,000 lbs. of milk returns a profit of \$40, or four times as much; or in other words, 10 cows producing 8,000 lbs. of milk would return as much profit as while for farmers to give the question 40 cows producing 5,000 lbs. of milk, consideration.

quarter the labor.

It has been said, "The very strength of the dairy business is its weakness. Because it is so generally remunerative people have come to believe that money can be made at it no matter how conducted. It would seem that for the most part many are quite content to rest in this belief rather than take the necessary steps which are so simple and cost so little to find out just what profit each cow makes. In view of the plain facts that have been brought out in recent years relative to the possibilities of dairy herd improvement, there is small wonder tha. the cow testing movement is making headway; the great wonder is that it does not progress more rapidly.

#### CO-OPERATIVE OWNERSHIP OF FARM MACHINERY

Labor saving machinery helps us as farmers to reduce the cost of production of farm products. The inventive genius of man has provided machines to such an extent that now there is scarcely any operation ranging from hoeing to the more complete work of turning the sod or driving the threshing machine but what can be done with modern machinery. This machinery is expensive. So much of it is required nowadays that an outfit complete represents a tidy sum, often much more than can be afforded or what one would willingly expend. Many of these machines, although expensive, result ultimately in the truest of economy. Their utility cannot be gainsaid. Often it is only a question of time when some particular machine, or set of machines, will be installed; were these put to use at an earlier date they would result in good returns on the investment. In order to affect this earlier purchase it frequently is advisable to co-operate with neighbors in the purchase of machines and in this way make possible the profitable use of a full line of farm machinery.

The co-operative principle applied in this particular has its disadvantages, to be sure, and unless one's neighbors are of the right sort, he might well hesitate before purchasing farm machinery on a co-operative plan. Possibly the greatest difficulty lies in the fact that what is every-Lody's property is nobody's property, and the machines are given indifferent care, often abuse. This difficulty may be overcome in a small circle of three or four neighbors by each one being responsible for a given machine, it to be his property and his especial charge no matter on whose farm it is working

In the case of such machinery as that specially designed for particular crops, such as potatoes and hay, silofilling and threshing machines, or even the manure spreader or binder, co-operative ownership is possible, and such will often prove the most profitable. Some of these machines would pay, owing to small acreage, only when owned on the co-operative plan. In such cases it would be well worth

## ILLUSTRATED SECTION

Issued Each Week

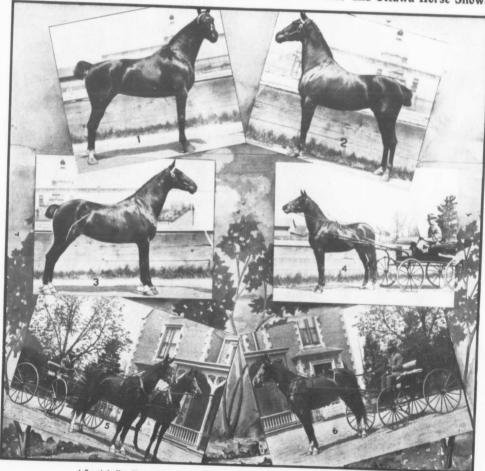


Only \$1.00

Vol. XXIX

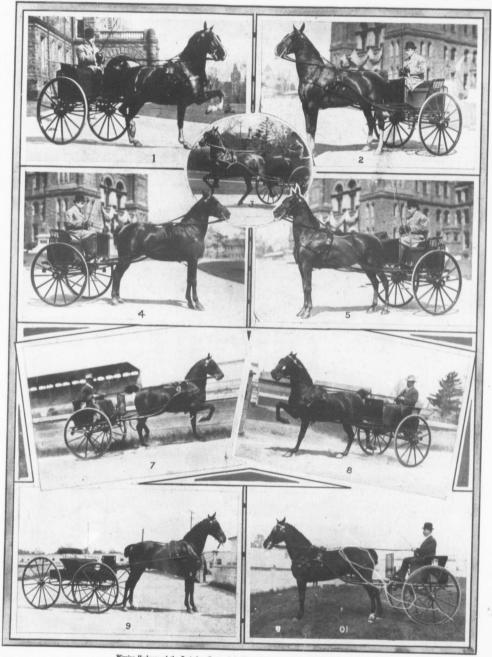
FOR WEEK ENDING JUNE 2, 1910.

## Prize Winning and Champion Horses at the Recent Toronto and Ottawa Horse Shows



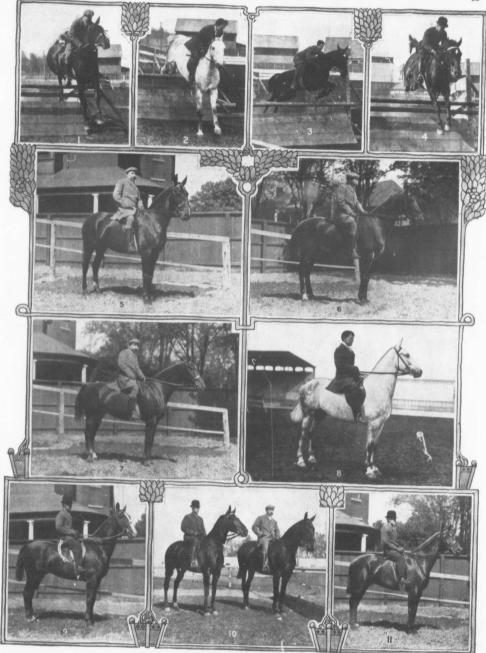
A Few of the Many Winning Hackneys and Roadsters of Cruickston Stock Farm, Galt, Ont., Property of Miss K. L. Wilks.

A rew of the many maning incompt and recompt are repended by the pair of mares, 16 hands high, are splendidly matched and have grand style and action. No. 1.—Black Princess, black mare. No. 2.—All Ablaze, chestnut mare. This pair of mares, 16 hands high, are splendidly matched and have grand style and action, the pair of mares, 16 hands high, are splendidly matched and have grand style and action, the pair of mares, 16 hands high, are splendidly matched and have grand style and action, the pair of mares, 16 hands high, are splendidly matched and have grand style and action, the pair of mares, 16 hands high, are splendidly matched and have grand style and style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have grand style pair of mares, 16 hands high, are splendidly matched and have splendi

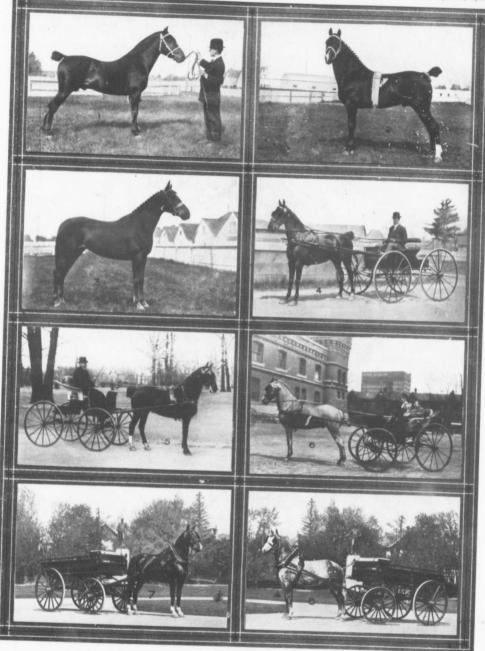


Winning Hackneys of the Emisclare Farms, Oakville, and of the Derby Stock Farm, Simcoe, Ont.

Nos. 1 and 2—Lord Myrick, chestnut gelding, 15.3%. Notice his practically faultless action. Nos. 3 and 4—Lady Warwick, chestnut mare, 15.2% No. 5—Lady Greenals from the farm not here shown, non more prizes in the Stock Farm, Oakville, Ont., and owned by H. C. Cox, Esq., of Toronto, with one or two other animals shown by the Emisclare Stock Farm, Oakville, Ont., and owned by H. C. Cox, Esq., of Toronto, with one or two other animals from the farm not here shown, and once prizes in the Stock Farm, Oakville, Ont., and the Stock Farm, Sincoe, Ont., are owned by Mr. A. E. Yeager, who is driving.—All photographs taken specially for Farm and Dairy.



The interest Hon. Clifford Sifton is taking in hunting horses is likely to man much to the interests of this class of horse in Canada. Nos. 1 and 5.—Hon. Mr. Sifton on Brown Bess. heavyweight hunter. Second in the Military Jumping Compelling Wos. 2 and 8.—Master Victor Sifton, on Dick, winner wood, lightweight hunter states at Ottawa Hunt Club races. No. 3.—Clifford Sifton, Jr., on Wellington Wos. 2 and 8.—Master Victor Sifton, on Dick, winner wood, lightweight hunter states of the state of the



Some Exceptionally Fine Animals that Did Well at the Toronto and Ottawa Horse Shows

Some Exceptionally Fine Animals that Did Well at the Terents and Ottawa Herse Shows
Animals of the State of t







### The Big Demand Now Is For A SANITARY Cream Separator



The vast importance of sanitary methods in the most up-to-date dairymen in the Dominion. The the most up-to-date dairymen in the Dominion. The ber of unsanitary is cridenced by the great number of unsanitary is cridenced by the great number of unsanitary season with LMPR Separators, which are known as the world's most sainlary separators.

are known as the words most sanitary separ-tors. The six smooth cones of the Frietindess Empire haven't a notch or a crevice in them. They are as easy to clean as an equal number of glass tumblers. They can always be kept sweet and clean. That is given the cream separated by the FRICTIONLESS given the cream separated by the FRICTIONLESS mainly—the kind that makes the most delicious butter.

You believe in sanitary methods, therefore send to-day for our BIG DARRY BOOK which fully exclains the superior sanitary (and other) features of the Frictionless Empire (cone method) and Emnire Diec Separators.

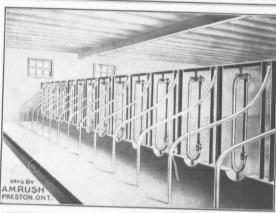
### EMPIRE Line Of Cream Separators

The Empire Cream Separator Company of Canada, Limited

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Some of the Jumpers that Won Honors at Both Shows and Two Well-Known Officials

No. 1.—Two of the prize winning jumpers owned by Hon. Adam Beck, London. Ont., shown at both shows. No. 2.—Miss Davies, on the Wasp, a noted high jumper that has jumped as high as seven feet. Shown at both shows. The classes for jumpers even the most largely filled of any. As high as 30 animals competed in some of the jumping contests, which always aroused great interest on the part of the speciators. When the part of the speciators were specially supported by the part of the speciators. When the part of the speciators were specially supported by the part of the special part of the part of the special part of the special part of the part of the special part of the special part of the part of t



### THE MONEY YOU MAKE

bepends on how you handle your coss. Cos comfort, safety, convenience confort, safety, convenience profits go hand in hand with users of Rush's Sanitary Ireo. Stalls and U Bar Steel Stanchions. My 1910 Stanchion has all the new features that a stanchion requires. The cost of the same conformal c Depends on how you handle

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#### INVESTMENT NOT AN EXPENSE

MASSEY-HARRIS SPREADER on your farm will enable you to apply the manure when it will do the most good, even if help is scarce, for it is a great labor and time saver.

It spreads the manure over more acres, because



it is so thoroughly pulverized that all of it is available as a plant food and need not be applied so shickly as would be necessary with hard preading. It makes possible the top dressing of field crops, which is usually the most effective method—the first rain carrying the fertilizing elements down into the

On meadows and pasture lands it makes \$t\$ possible to apply the manure so as to be of the greatest possible benefit-renewing the fertility without losing the use of the land for a time.

IT WILL SOON PAY FOR ITSELF OUT OF THE INCREASED CROPS.

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With New Patent Side-delivery Self-buncher at Work.

Harvesting from 10 to 12 acres per day in the most econical and complete manner. Harvest-ers to suit all kinds of mowers. A wrench is all that is required to attach it to any mower. Every machine warranted. Our motic "vol bow cheap, but how good." Give your orders to any of our local agents, or send them direct to

TOLTON BROS., LIMITED, GUELPH, ONTARIO.

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I drill a 4½ inch hole; work done summer or winter; pumps and fixtures advers you hand. I guarantee water. Fiftee pares experience. Eight gaso-line a rare steam drilling machines. Time given i needed by notes. Worth your while to write for terms and prices this year, to

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In this serviceable little Camera we have simplified picture taking to the last degree. It loads in daylight with Kodak Non-Curling Film Cartridges for four, six or twelve exposure four, six or twelve exposure for single service of the control of In this serviceable little Cam-

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Metallic Ceilings are fire-proof, absolutely. Metallic Ceilings don't crack or crumble don't get damp or mouldy – don't need repairs.

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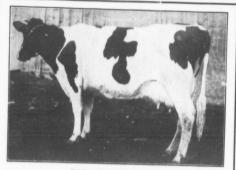
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RHODA'S QUEEN No. 4831

The first cow to complete a record in Record of Performance Test.

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#### **FARMERS**

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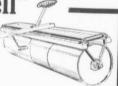
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### Pack Your Soil with The "Bissel

facturers. But with us it is our life work. For nearly a score of years we have con centrated all our efforts on the manufacture of just two things-land rollers and disc harrows. That we land rollers and disc harrows. That we know how to make these machines be-ter than others the records of our machines in field competitions is abun-dant proof. When you purchase the "lissell" Land Roller, you seeing a roll-er that will pack your soil better—a roll that is unbeatable for crushing of the result of the result of the result of the thing of the result of the thing of the result of the result of the result of the result of the three results of the results of the results of the results of the three results of the resul The position of seat prevents jars and jolts. Because of the large roller bear-



drums, friction is reduced to the vanishing point. The "Bissell" is the lightest draft, as well as the easiest riding est draft, as well as the easiest riding and smoothest soil packer on the mar-ket. For further particulars, ask Dept. R., for catalogue, or see your local

See Harrow ad. on page 8 of this ings and because the axle revolves with paper.

#### T. E. BISSELL COMPANY, Limited ELORA, ONTARIO

## SOUR MILK

### Weather is at Hand



Loss in the Dairy is certain. where a MELOTTE CREAM SEP-ARATOR is not used.

It saves work

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Profit by protecting yourself, and Buy a Melotte, thus avoiding a Loss at this and all seasons of the vear.



The Melotte Cream Separator Works equally well in any climate.

The Melotte is acknowledged to be the highest classed machine by experienced users in Canada and all over the world.

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R. A. Lister & Co., Limited STEWART ST.

## ALL HORSE-GOLLAR TROUBLES Now Prevented or Quickly Curcd



Every horse owner who will now consider the practical in valuable time and on-selech by using a set of Humane Horse Collars to prevent all collar to the collars of the property of the collars for the past three while they work. The horse three forms of the Humane Horse Collars for the past three years proves this. Investigate.

#### HUMANE HORSE COLLARS

IL is a fact that only one set of Human Horse Collar on a farm will consider the set of Human Horse Collar on a farm will collect the set of Human Horse Collar on a farm will collect the set of Human Horse Collar on the set of Huma

ONE MARGEMAN.
ONLY THINK OF BUYING HARNESS UNTIL YOU WRITE OR FULLY IN-VESTIGATE THE HUMANE HORSE COLLARS.—GET OUR BOOK FIRST.

Whipple Horse-Collar Co., Ltd. HAMILTON,

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Have made a record for quality. Why? Because all that was up-to-date and the best experience and ability was utilized to full advantage when we undertook to make telephones for the Canadian Independent Telephone Companies and Associations. We started with up-to-date ideals, established a high standard of quality, and have maintained that standard.

## THE RESULT

The result is that we have now hundreds of companies, associations and municipalities using our telepphones, and we are daily securing as new customers, those who had been using other makes of telephones. They are changing, not on account of our price, for we maintain our price because it is essential to quality. They are changing because they have either made a trial of our telephones on their own lines or have heard the good opinions of others who were using our telephones. It is quality that is winning the business for us.



### THE QUESTION

The question for you to decide is whether you are getting the best value in the telephone you are purchasing. You may get a telephone that will cost a dollar or two less but has not got the standing qualities. It very soon becomes a source of constant expense and trouble to keep it in repair. The question should be decided when you are purchasing whether you are getting first-class quality in your telephone. It will pay you to make sure of this. This being the fact, we would ask you to write us if you are putting new telephones on your lines or if you are starting in the business and likely to purchase. We shall be only too glad to discuss the matter with you and submit prices.

## CONSTRUCTION MATERIAL

If you are extending your lines or if you are organizing a company and starting into the business, it will pay you to let us quote you on construction material. We carry a large stock constantly on hand, and make a specialty of prompt shipments. We send out nothing but first-class materials.

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We shall be pleased to send you a copy of our No. 2 Bulletin if you are about to build a line. It gives you full instructions in regard to construction work. We also will be pleased to send you a copy of our latest book, entitled, "Canada and the Telephone," which contain thirty-two illustrations of the value of the telephone in the rural home. These will be sent free of charge at request.

PROMPT SHIPMENTS AND GUARANTEED SATISFACTION ARE MAKING OUR SUCCESS.

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18-20 DUNCAN STREET, TORONTO

avoid tying the navel cord. It is best for it to break off naturally. If it fails to break and the mare is lying down, make her get up and the cord may then break.

If found necessary to tie the cord if found necessary to tie the cord if found necessary to the the cord dirty string may cause infection. Soak the string in a five per cent so-lution of lysol or carbolic acid, or a 1,500 solution of corrosive sublimate (Lichboride of mercury). Tie the cord



#### A Town in New Ontario

A Tewn in New Ontario
One of the streets in Occhrane in New
Ontario, is here shown. Occhrane has
sprung into clame as though by magic.
A year and a half see was hardly
a building in it. To due was hardly
streets, a school, a bank if has several
streets, a school, a bank in the work
whole is un protour school in the you
whole country round about is similar in
character.

one inch or a little more from the belly; then sever the cord with a clean belly; then sever the cord with a clean knife. An emasculator or eraseur (castrating instruments) may be used to sever the cord in place of tying it and then cutting through below the

#### THE DISINFECTANT.

Saturate the stump of the navel cord immediately, whether tid or not, with the following disinfectant: Powdered corrovies sublimate, two drams; A. Bull & Son is well known and the student or control to the solution with two largest part of the solution with two largest parts of the solution with the sort and the parts of the solution will be son's new importation twice until the cord shrivels up, drops off and in raw spot remains. To keep the son from bilistering the foal's belly small parts of the solution will have reached home and the solution will have reached home.

boilized vascular before making the first application.

A good way to use the solution is to put some of it in a shallow, wide-necked bottle, then hold the bottle against the foal's belly with the stump immersed so that it will be stump immersed so that it will be completely covered by the fluid. If completely covered by the fluid if the navel cord has been tied remove the string as soon as possible, squeeze out the blood clot and instantly south the navel stump with the corrieon sublimate solution. Use the solution twice a day until the navel is perfectly healed. Remove sloughing portions of the cord each morning, so far as of the cord each morning, so far as by healed. Remove sloughing portions of the cord each morning, so far as possible, to allow the solution to wet all raw parts of the cord.

GIVE ATTENTION TO THE BOWELS. A strong foal will be on its feet and trying to nurse in less than an hour from the surface and the surface an A strong foal will be on its feet and

Treatment of The Foal at Birth

A. S. Alexander, V. S., Madison, Wis.

Attend to the navel cord (umbilicus)

Attend to the navel cord afterbirth. If possible tract by way of the mouth. Disinfection of afterbirth. If possible tract by way of the mouth. Disinfection of the navel cord also tends to prevent scouring. At birth the intestion if the prevent scouring at birth the intestion of the navel cord also tends to prevent scouring. This for it to break off naturally. If it is not prevent scouring the prevent scouring at birth the intesting of the prevent scouring. This fails to break and the mare is lying of fecal matter (meconium). This fails to break and the mare is lying of fecal matter (meconium).

the of the foal contains a sticky mass the of the foal contains a sticky mass the of the foal contains a sticky mass the foal contains a sticky mass the foal contains a sticky mass the foal contains a sticky of the foal stream of the foal st

hours if required.

Harm may be done by injecting a large quantity of strong, soapy warm water with an ordinary "horse syringe." uries quantity or strong, soapy warm water with an ordinary "horse syringe." A fountain syringe is to be preferred and a small, hard rubber nozzle, or a small, clean rubber hose and funnel. Smear vascine or lard on the nozzle and in rectum before giving the injection. If the bowels do not move within 24 hours from Lirth and the foal seems sick, shake up two to four tablespoonfuls of pure castor oil and sweet oil, according to size of foal, and give as one dose. Then continue the injections at intervals of six hours.

#### Jersey Breeders' Outing

Jersey Breeders' Outing

The summer session of the Canadian
Jersey Cattle Club will be held at
'Hawthorne Lodge'' the home of
Messrs. B. H. Bull & Son, Brampton,
Ont., on Wednesday, June 8. Every
Jessey breeder or fancier and dairy
farmer generally could not do better
tana remember this date and pay a
visit to the home of the famous
Brampton Jersey herd. The Brampton Farms comprise over 600 acres imton Farms comprise over 600 acres imbrampton Jersey herd of pure bred
cattle ever owner of the grampton Jersey
herd is the support of Chada.

The hospitality of Chada.

The many of the support of the meeting a hearty welcome.

Messrs. B. H. Bull & Son's new importation will have reached home and



#### A Bridge in New Ontario

The bridge across the Mattagami River, on the Transcontinental Railroad, in New Ontario, is here shown. The river is about 600 feet wide and is quite deep. It flows into James Bay. All the country round is well watered. There is room for hundral of thousants of settlers in this section all the second of the second of the section of th

will be on view, as will also their stock prior to being shipped to the Calgary exhibition.

Scours in Calves.—Never give milk to a calf in a dirty pail. Dirty pails, over-feeding with skimmed and sour milk are the principal cause of second in calves. A good remedy for scours is to quit giving skim milk, but giving is to quit giving skim milk, but give a pint of new milk, in which is stirred a small handful of powdered charcoal. Continue this treatment until the calf recovers.—H. Johnson, Middlesex Co., Ont.



### TINGY

The Farmer who gets every piece of labor-saving machinery possible for field work and lets his wife drudge along with cans and crocks in the Dairy is mighty mean.

## DE LAVAL Cream Separator

Makes the Wife's Life Worth Living FREE CATALOGUE

## THE DE LAVAL SEPARATOR CO.

173-177 William St. MONTREAL

WINNIBEC

VANCOUVER

### SUMMER PREMIUM TALK

### THIS USEFUL FOOD CHOPPER GIVEN AWAY

CHOPS EVERY VARIETY OF FOOD

Meats Vegetables Fruits

**PULVERIZES** Crackers Stale Bread

Etc.

Spices

GRATES Horseradish Cocoanuts Chocolate

#### Save Yourself Work This Summer

Send us Three New Subscribers to Farm and Dairy, at \$1.00 each, and we will send you Free, this excellent Food Cutter, complete.

DESCRIPTION.-It has only two parts, the case and the roll, and can be taken apart for cleaning.

Four knives are supplied with each machine: to cut coarse, to cut fine, to pulverize, and to make nut butter. Substitution of one for another can be made without taking the cutter apart, Any particle of food which can be cut with a chopping knife, can be minced with this machine more quickly, quietly and thoroughly.

Working against the steel disk the knives sharpen themselves. The cutters are nickel-plated; all other parts of the machine heavily tinned. Constant use keeps the cutters sharp.

Circulation Manager

FARM AND DAIRY PETERBORO, ONT.

Creamery Department
Butter makers are invited to send contributions to this department, to ask questions on matters relating the tribution and and
and to suggest subject to the tributer making
and to suggest subject to the tributer and the suggest that the tributer and the suggest that the tributer and the suggest that the reessassassassassassassas

#### The Only Just Way

Editor, Farm and Dairy,—There is a law in several of our States, includ-ing, in fact, nearly all the leading dairy States, requiring that samples of cream for testing be weighed rather than measured for testing, and it cer-tainly is a just law in every way.

Where cream is tested by measur-ing with a milk pipette, not only is there a loss from the cream having a lower specific gravity than the milk, but a considerable quantity adheres to but a considerable quantity adheres to the inside of the pipette, and further, there is a considerable amount of air nixed in by pouring the cream, in preparing the sample, which tends to reduce the amount going into the test bottle.

We take the view in this State that every man is entitled to have samples of cream that are taken for test from that which he supplies to the factories tested in an accurate manner; the tested in an accurate manuer; the only way to do this is to weigh out the sample. There is no difficulty at all for any person of average intelligence to do this weighing.

A considerable amount of crean used in Missouri is purchased through acounts in small toways and more

used in Missouri is purchased through agents in small towns, and most of these agents are local storckeepers, and some handle but a small amount of cream, but at the sametime they are able to use the scales are the to-tal the sametime they are all the sametime they are able to use the scales when the than when the pipette is used, but the average creamery operator is as com-petent to weight the sample as he is to carry out the remainder of the test.

The scales used are much mo. 2 deli-The scales used are much more deticate than those which ordinary works men are accustomed to, but there is not difficulty experienced in our ractorist on this account, and the scales do not

on this account, and the scales do not have to be renewed any oftener in a scales used for other just would not be satisfied with a test point of the property in the satisfied with a test point and I think they are entiry justified in taking this position. We are behind them in making such a demand.—C. H. Eckles, Professor Dairy Husbandry, University of Missouri. Husbandry, University of Missouri.

### Progress in Creamery Work Mack Robertson, Creamery Instructor, St. Mary's, Ont.

Mack Robertson, Creamery Instructor,
Nt. Mary's, Ont.

Conditions this year are much in advance of those that prevailed at the same time last year as regards creameries in that district or group of creameries under my charge. While we have had a great deal of backward with the same growth is much ahead of each same growth is much ahead of each same growth is much ahead of the same growth is same growth in the growth and growth is abundance of moisture and growth in the amount of the same growth is growth in the growth is growth in the growth is growth in the growth in the growth in the growth is growth in the growt

Reseaseseseseseseses year. The last week has brought then year. The last week has brought them down, however, to summer values and no doubt it is better for the trade in general. The tension on the nerves of the consumer has relaxed and again he breathes more easily.

While the creamery men in my dis-

While the creamery men in my district are by no means perfect, owing to the fact that, like the Instructors, they are recruited from the animal species known as human beings, still I feel quite justified in claiming for them that they are on the whole a very progressive but of men. Once convinced that a certain method is right they loss up they have been a firm in the late of the property of the vinced that a certain method is right they loss no time in adopting it. Three years ago by an adopting it. Three years ago by a consideration of the district were using the total consideration of the cream testing. To-day of the consideration of the test graces every creamery to show the four points of the oil test, but to-day they simply try to find some plausible excuse as to why they are still using the old out-of-date oil test. We home soon to say good-bye to the. We hope soon to say good-bye to the remaining four.

THEY ADOPT THE SCALES.

THEN ADDIT THE SCALES.

Again the scales in connection with
the Babcock test, for weighing instead
of measuring the test samples is comparatively of recent stamples is comparatively of recent stamples in comparatively of recent stamples in the
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man who could convince him. Altogether our creameries are pro-gressing very favorably. While the season's make of butter is as yet in the hands of the weather man, we hope and look forward to an abundant har-vest in the cream and butter field.

Up-to-date Agriculture.—I am send-ing my renewal for Farm and Dairy. It is a valuable agricultural paper, and I can endorse what many others have said of it in respect to its value to the agriculturist. Farm and Dairy is, without doubt, one of the Lest and most up-to-date agricultural papers in circulation. I would not be without Farm and Dairy for twice the price of it.—W. C. Silkey, York Co., On-

After the experience of the last few seasons an effort will be made by farmers here to a large extent to provide are well satisfied, as by ensiloing the green feed for the cattle after the postures are done. At least two silos of cheap, succulent feed.Leslie Tennart to be built this summer, perhaps

#### THE HELP THE FARMER LONGS FOR



#### Is Supplied by a Peter Hamilton Mower **BECAUSE**

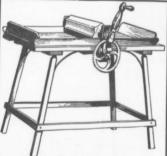
It will cut ALL the grass whatever its condition or the condition of the surface of the ground. It is exceptionally light in draft. It can be been considered to the in the heaviest clay. The pull is direct from the whifteltrees to them in the heaviest clay. The pull is direct from the whifteltrees to the interest of the draft. The tilt lever has lots of range of movement distinguished draft. The tilt lever has lots of range of movements. The Foot all composed with Roller Bearings or Removable Bushings. The Foot all composed with Roller Bearings or Removable Bushings. The Foot grant of the Roller Bearings or Removable Bushings. The Foot grant of the Roller Bearings of Ro

#### THE CUTTER BAR

is flexible. Will cut close at any angle. Is made of heavy steel sufficiently strong to prevent sagging, and is supplied with steel wear surface for the hinton can be replaced, thus giving the new wearing. The Pitman is long and has a direct and easy stroke and is well protected by the drag bay from stones, etc.

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THE Butter Worker made for Practical Butter Makers-that's the National! The National Butter Worker, built entirely of hard wood, is unquestionably the most practical butter worker sold in Canada to-day, and is in use in the leading dairies of the Dominion. Every

dairyman and farmer who makes butter owes it to himself to know more about the superiority of this practical device-it's a matter of dollars and cents on the profit side of his books, to own a National.

Write to us for full particulars; we will gladly give Information and send our Booklet Free on request

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#### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* A Prosperous Farmers' Factory

J. F. Ketcheson, President Zion Cheese Factory.

J. F. Ketcheson, President Zion. Cheese Factory.

The photos reproduced herewith are of the Zion Cheese Factory situated on Lot 12, in the 8th Concession of Thurlow, Hastings Co., Ont. Last season our make of cheese sold for Strick Co., Our factory is owned by Strick Co., Our factory is owned for the piggery and the strick Co., Our factory is owned for the strick Co., Our factory fac This sum was divided amongst 62 patrons after expenses were subtracted.
Our patrons all live within a radius of three by one and one-half miles of

#### Pay Each Patron His Due.

Alex. Thompson, Peterboro Co., Ont. Alex. Thompson, Peterboro Co., Ont. Where milk is paid for at a cheese factory on the basis of the pooling system, a man where the state of the pooling system, a man where the system will be suffered by the system of the syste

#### Well DRILLING MACHINES

Over 70 sizes and styles, for drilling either sep or shallow wells in any kind of soil or rock, counted on wheels or on sills. With engines or rese powers, Strong, simple and durable. Any echanic can operate them easily. Seef for catalog

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Save your flav Decrease Grain Bills Produce More Milk Make More Money

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CANADIAN DAIRY SUPPLY CO. MONTREAL

Cheese Department it has always been a surprise to me stim milk to the factory, he gets skim milk to the factory, he gets skim to most othis department, to ask questions on the factory of the county and of the surprise of the county and of the surprise o

nothing fair about such business, and it has always been a surprise to me that more of the cheese factories off Peterbore County and of Eastern Ontario do not pay by test, or I should put it, that any factory would could be always be and all.

Let us figure this matter out on the basis of the figures from the Eastern Dairy School quoted in the editorial in Farm and Dairy, April ? We find that \$25 pounds of milk testing three per cent, yielded 27 pounds of cheese. An equal quantity of milk testing 3.8 per cent fat yielded 35.5 pounds of theses. An equal quantity of milk testing 3.8 per cent fat yielded 35.5 pounds of these factories of the proceeding and who knows his diplomas, etc., and who knows his diplomas, etc., and who knows the cheese—a difference of 8.5 pounds of the factory, he gets skim milk to the factory.



Piggeries Run in Connection with the Zion Cheese Factory

These two pens have a capacity of 550 hogs. Last year 1200 hogs passed through them, which brought in a gross return of \$14,000.

share per soften in the the goes without argument that the It goes without argument that the man whose cows produce the richer milk should receive this extra 29 cents that it is worth per ewt. more than the milk from his neighbor's cows which test three per cent. It is a patron's own fault if he is content to allow his neighbor to share in that part of the factory proceeds which rejutifully belongs to him.

Was surprised to learn from Farm was surprised to learn from Them.

Was surprised to learn from Them.

Was surprised to learn from the part of the policy state there in Eastern Ontario till paying by the pooling system. It would seem attention that, in their own interests, it deserves.



A Prosperous Farmers' Cheese Factors

The illustration shows the Zion cheese factory in Hastings Co., Ont., which last year did a business of \$51,000.

They have perhaps, left it for the makers to decide, and as paying by test makes more work for them, we cannot expect them to be very enthusiastic over abolishing the pooling system. The matter of how the proceeds of the factory shall be divided inne that almost wholly is the patience of the process of the paying the process of the paying at his factory.

PAID BY TEST FOR OVER TEN YEARS. At our factory, of which I am presi At our factory, of which I am president and salesman, we have been rid of the pooling system for years. Some 10 or 12 years ago by a popular vote, we decided to divide the proceeds of the factory by the fat-plus-two method.

them, which brought in a gross return of \$14,000.

at 11 cents a pound comes to over 90 cents more than the cheese realized from the three per cent. It is a 110 contained by 100 pounds of milk, we find that milk testing 3.8 per cent. of Lutter fat is worth for cheese making approximately 29 cents a ext. more than milk testing the per cent.

It goes without argument that the man whose cows produce the richer milk should receive this extra 29 cents that it is worth per cwt. more than the milk from his neighbor's cows which test three per cent. It is a long of the per complete the per cent. It is a long of the per cent. It is a long the proceeds. Let the colleges with the state there is a difference in the will be periments, as they did last winter proceeds. Let the colleges with the idea of the periments, as they did last winter proceeds. Let the colleges with the idea of the periments, as they did last the periments. Let the colleges with the periment Grenville Co., Ont

The Women Send Him Flying

from the disks and other contraptors used in all common machines. The woman who must wash the separator will not approve the purchase of any common machine even the purchase of any common the search of the purchase of the purchase

Sharples Dairy Tubular Cream Separators e no disks, yet produce twice orce, skim wear longe

st, if not all, others co

No. 251

THE SHARPLES SEPARATOR CO.

#### LAND PLASTER

Car Lots or Any Quantity.

TORONTO SALT WORKS

Q. J. CLIFF, Manager



#### PERFECT STEEL CHEESE VAT

Our 1910 Steel Vat is going to be use a little better than ever before the control of the contro

THE STEEL TROUGH AND MACHINE CO., Limited TWEED, ONT.



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dairy-farmers can't afford to ship impinto the towns and cities. Our medica

Root MILK Cooler-Aerator

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THE great thing in the world is not so much where we stand, as in what direction we are moving.



better.

To-night, when he finally overheard
the tale of Mrs. Watson's presence in
the camp, he was inwardly burning
with pleasure. The midnight shift with pleasure. The midnight shift would soon go on, a score of men. The miners were assembled at the shaft when Watson came in with his pail. His face seemed even more white than before. He was tired, tremendously tired. His hands were blistered and bruised. His body was lame from over-labor.

bruised. His body was lame from over-labor.

Blawd had been waiting. Bixby had not yet appeared. As Watson limped quietly into the group, nodding in silence to acquaintances, the shift boss advanced a yard to meet him, glancing him over with scorn.

So, you aliek-fingered gent," he sale, you globe for your did with honest men, did you? Wa hide with honest men, did you? White to to be like a decent citizen awhile? Thought you could make your mother believe you was earning your money on the square and no more theievin, hey?—and come here to work up the game? Oh, you cortainly did have your plans all haid out slick."

Watson faced him without a sign of the anger and pain of his being. "Haven't I done the best I could?"

Haven't I done the best I could?"

he said. "I know I'm not much of a miner."
"Much of a miner!" mocked the big boss sneeringly. "Much of a cheat is more your size—cheatin 'at 'cards and cheatin' at work and cheatin' your nother like a sneak! And once you nother like a sneak! And once you work that the state of the state of

in'."

A hard, Lright gleam had come in Watson's eves. He looked at Blawd unfinchingly.

"Don't try it, my friend, or you'll never boss a shift again," he said cuietly. "What games you've got to play with me you'll has without dragging in my mother,"

son.
"Maybe your mother's no better
than you.——" he started when Watson cut him short.

with remarkable agility, landed a blow that staggered Watson's senses, then hurled him in violence upon the floor just as Bixby came in upon the scene of brutality.
"What's this?

What's "What's this? What's going on?" the superintendent demanded. "Haven't I told you, Blawd, I'd give you the bounce if I ever caught you fighting here again?" Watson arose, weak and dizzied. He could never have been a match for the boss, and exhaustion had sapped him of strength.

of strength

"It wasn't all Blawd," he admit-ted fairly. "I opened the ball my-

Bixov shrugged his shoulders and

BixDv shrugged his shoulders and went on his way.

The cages were presently shot from the depths with the men who were leaving the works. Crowded together and holding on above, the midnight shift, with Blawd and Waston includ-ed, went down in the earth to their labors.

I he Turning Point

By Philip Verill Mighels.

(Concluded from last week)

He steeped on the cage, with Bix-by at his side, and was lowered away, ten hundred feet deep, in the velvey blackness of the hole.

Three days the gambler had been working in the mine, and the camp kept his secret from his mother. For three days Blawd had vainly sought a way to even up the score he felt must be squared between himself and Watson. The sooner it was settled the better.

To-night, when he finally overhead the tale of Mrs. Weight and your heads the tale of Mrs. Weight and was a way and himself and Watson. The sooner it was settled the better.

The Lord watch between me and thee, when we are absent one from another. Gen. 31:49

(30 thou thy way, and I go mine-Apart, yet not afar; Only a thin veil hangs between The pathways where we are, And "God keep watch 'tween thee and me,"— This is my prayer. He looks thy way, He looketh mine, And keeps us near.

7 know not where thy road may lie, Nor which way mine will be; If thine will lead through parching sands, And mine beside the sea. Yet God keeps watch 'tween thee and me, o never fear: He holds thy hand, He claspeth mine, And keeps us near.

HOULD wealth and fame perchance be thine. And my lot lowly be: Or you be sad and sorrowful, And glory be for me; Yet God keeps watch 'tween thee and me, Both are his care One arm round thee and one round me. Will keep us near.

3 sigh, sometimes, to see thy face, But since this may not be, I'll leave thee to the care of Him Who cares for thee and me. "I'll keep thee both beneath my wings,-" This comforts, dear, One wing o'er thee and one o'er me, So we are near.

HND though our paths be separate, And thy way be not mine, Yet coming to the mercy seat, My soul shall meet with thine; And "God keep watch 'tween thee and me," I'll whisper there He blesseth thee, He blesseth me, And we are near.

-Julia H. Raker  fighting back the gigantic pressure of the hill. He was not merely stubborn in his labors, he was also an excellent

Back and forth, meanwhile, Watson Back and forth, meanwhile, He was fetching heavy timbers, trundling out debris, taxing his muscles for more than their worth, but doggedly re-maining at his task.

maining at his task.
It was some time early in the morning that the Titan of earth broke his bonds. With a sudden crunching and crumpling of the puny beams with which the great bulkhead was being reinforced, the masses of water-soaked earth and rock moved inward like a tidal wave of mush, carrying all before it

fore it.

Sounds of rending and the min of yolds made fearful alarm in the chaitber. Timbers as thick as a wall were
shivered and splintered. The bridgelike structure that Blawd had built
came down like a trestle of straws.
The lights of three of the candles went
out—and Blawd was caught beneath
the wreekage. the wreckage.

Bawling in fear that the roof of all the wreckage.

Bawling in fear that the roof of all the drift would be in on them, cave after cave, the miners ran wildly to make the drift would be in on them. The waster of the roof o

"Come back here! Come back!" Seled Watson to the leaders. "If Blawd's in the cave we must per life Blawd's with the caught at one of the miners going by and clutched him by the shirt. "Never mind Blawd! What do you care for him?" said the miner, wrenching loose. "It's all coming down! Git out!" No thought of Blawd, as Blawd, was actuating Watson. A man was in there, underneath the mass, and a bare chance remained for his rescue. That was the appeal to Watson.

Leaving the car and once more suring to the men. Watson ran on-rout the drift. He was soon confront the drift. He was soon confront the drift. He was soon confront the conference was candle at his forehead, the scene was pealling to behold. It looked a speaking to behold. It looked as papalling to benedt. It looked as you ment, blotting the tunnel from existence.

On two or three timbers the mighty On two or three timbers the mignty weight was hung, and these were fair-ly groaning with the burden. They were bent till two were visibly crack-ing underneath, the white gleam of newly breaking pine growing longer

newly breaking pine growing longer every moment.

Beneath a dumping of earth and -ok lay Blawd, stretched prone upon his face. A red stain had trickled from his hair.

from his hair. We shall have been a superstantial with the water of the strength he exerted was almost superstantial with the superstantial water of the sup

Downward the great Leams were sagging with the mountainous weight laid upon them. Frantically hauling, then kneeling on the rocks and reaching far under to turn the boss's foot, Watson was winning in his struggle. He dragged the big form free at lest and stepping in over the helpless form, deful boosted him un from the rear. Over at last he rolled the limber bulk, and himself fell headlong in the effort. Out went his candle. A wooden sort of shriek, as if the A wooden sort of shriek, as if the forest itself, whence the timber had come, rent the silence of the had come, rent the silence of the had come, rent the silence of the state of the had come, rent the silence of the state of the had come, rent the silence of the state of the had come, rent the silence of the had come, rent the silence of the state of the st

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of one in his bed, sleepy, and with heavy clothes upon him, came like a balm across his consciousness, and then he knew no more.

heavy clothes upon him, came like a Lalm across his consciousness, and then he knew m more his knew he knew he

way and lifted up their burden and

Ten minutes later the roof and walls came in with a dull reverberation.

There were two hundred men, all rough, crude sons of gentle methers, who stood with their hats in hand, one day, the stood was made ready to depart. As the stood was made ready to depart, which already was not to passengers only—Watson who sarrival in the rain had marked out a turning peint, steep and hard to follow, in the midst of the blackness and the mud. Soberly, one by one, the men came forward to bid the two good-bye. Watson's hand they nearly wring from his wrist; his mother's they touched with the stood of the

He could say no more. He turned He could say and ran away.

Selecting Meats By Emma Paddock Telford

Selecting Meats

By Emma Paddock Teloral

(Concluded from last week)
One of the points brought out by the American Boef Producers', as sociation, whose outlined aim is to make the available supply of beef command of the country can be med as far as possible in supplying the demand, and speedily increase the maximum consumption, is that through ignorance 80% of the beef consumers are demanding cuts from the loins of the carcass which constitute the price basis that will encourage the maximum consumption, is that through ignorance 80% of the beef consumers are demanding cuts from the loins of the carcass which constitute the loins of the carcas, although the lesson of conservation of food supplies, the demand is equal to the provided of the supplies, the demand is equal to the loins of the carcas which constitute the loins of the carcas which constitute the loins of the carcas which constitute the loins of the carcas with the loins of the carcas, although the lesson of conservation of food supplies, the demand is equal to the provided that the very willing for cattle the people are able to pay prices demanded.

The provided the provided the provided the loin of the carcas with the loins of the carcas with the loins of the carcas with the loins of the carcas with the loin of the loin



A Unique Family Pet

The photo reproduced is that of a pet fawn caught by Mr. J. W. Hales, near Long Lake, Peterboro Co., Ont. —Photo by Mary A. Hales

sweet will be much more tender. Lamb and veal, being immature, spoil quickly and should be quite fresh.

4. Meat of any kind should have ittle of the control of the contro

Passed." it is a guarantee from the government that the meat is healthy. We would be glad to hear more about the home conveniences in the farm beef the moder. A prime piece of neat not on the form the covering of fat, but the lean meat will be marbled with small specks of yello vish white fat.

3. Beef and mutton that have been hung some time and kept perfectly hing some time and kept perfectly. The properties of the prope

It is claimed that onion cut up finely, thickly sprinkled with sugar and allowed to remain over night, the syrup drained off next morning and given in small doses frequently to the patient is excellent for whooping cough, relieving when nothing else would. The recipe, at any rate, has the virtue of containing nothing harmful.

Pictures of Royalty

Fictures of Royalty
Readers of Farm and Dairy will
much appreciate the privilege of securing a fine lithography picture 12x18
inches of the late King & contx, 11r,
for the small sum of 25 contx, 11r,
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picture of both the King and Queen
Alexandra, in return for one new subscription to Farm and Dairy. Pictures of the new King, King George
V. and Queen Mary, will also be sent
for one new subscription at \$1. State
clearly which pictures are desired.

... A Rack for Large Knives

A handy device for holding butcher knives is made as follows: Saw slant-



ing notches about half way through an inch strip two and one-half inches wide and nine inches long.

Nail this securely to the left edge of a smooth inch

patient is excellent for whooping cough, relieving when nothing else would. The recipe, at any rate, has the virtue of containing nothing harmful.

Are you watching our Summer Premium Talks opposite editorial nage. Some of them are sure to interest you.

"My kitchen work is a real pleasure with my new Range. It bakes and cooks so nicely that I can do my morning's work in half the time it took with my old stove, and whether I am using coal or wood it gives perfect satisfaction."



The Universal Favorite Range is built right and will stay right. It is guaranteed to cook and bake perfectly with either coal or wood.

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#### OUR HOME CLUB

TO THE CITY

We hear so much about our young people rushing into the city. Well, is it any wonder that our young men and girls do not stay on the farm if all there is in store for them is as "Country Philosopher" has pictured in Tragedies No. I and No. 3 of April 10 and people in the property of th

obtain?

To did that woman not see what was consideration and take everything into consideration before her marriage as she should have done? Should the blame all rest on the young people?

We think not

blame all rest on the young people? We think not.

In case of No. 3, we can only say. "Poor boy!" What other place did he have to take his bride? He had always worked at home, his earnings were all in the farm. The old people

would not give up their home and would not give up their home and move out, and they expected him to stay and work the farm. He could not afford to build another house. Besides they did note afford to build another house. Besides they did note afford to build have the near the accordance of the state of the st

#### "THE FARMER'S WIFE"

The FARMER'S WIFE

"THE FARMER'S WIFE

The girl who won the prize for saying, "the greatest woman that ever lived was the wife of the farmer of motorate means," certainly had not motorate means," certainly had not have a support of the farmer of motorate means," certainly had not consider the support of the farmer of the f

the homelike ways. I think "Sister" must have lived on a farm, for her symmer holidays sometimes and got a glimpse of what the wife of the farmer of moderate means has to contend with..."Aunt Jane."

#### MONEY IN CHICKS

"Daughter" wants to know how to make some money for herself. My plan is one money for herself. My plan is plan in the first of the source of t



An Ambition Young Farmer Youngest son of A. D. Foster, Bloomfield, and his pony.

work, something she can develop and make a success of, try hens or bees or small fruit. Begin on a small scale. Wonderful things can be accomplished with our good old hens if our women were allowed to carry out our ideas. Just as I am writing, a friend phoness to me, "We have 50 chieks from our accubator today." It makes my pen to me, "We have 50 chicks from our accutator today." It makes my pen fairly tingle. Fifty chickens the middle of March. That means "broilers in May," and dollars and dollars for the same. Oh! but I did not tell of the same. Oh! but I did not tell of the same to the same

#### HUM DRUM LIFE

HUM DRUM LIFE

It was with much interest that I read the letter from our new member, "The Curry Philosopher," regarding the conditions on the farm homes to-day, then were the surface of the conditions on the farm homes to-day, then were the surface of the surfa

#### TOO MUCH ALONE.

TOO MUCH ALONE.

It is a great pleasure to read the thoughts of the other members of The Home Club are the control of the cont

... Music Folios, your choice of a large selection, free, in return for a new subscription.

#### Results of Our Competition

More evidence of the good resulting from the recent Dairy Farms' competition conducted by Farm and Dairy are found in the letter received from one of the competitors, Mrs. Geo. Forester Oyrok Co. Mrs. Forester writes:

ester of competitors, Mrs. Goe. Forester writes:
Farm and Dairy is always a welcome visitor in our house, especially since the Dairy Farms competition last year. Our house is a very ancient one, having stood the brunt of our canadian winters for nearly 30 years. We still succeed in making it comfortable and enjoy nearly all the confortable and enjoy nearly all the control of the competition of the competiti

ahead of the old game.

THE HELP PROBLEM.

With all conveniences and improvements in house and surroundings, I still find lots of work. Domestic help farm is almost impossible to get the farm in cities at small wages and consider i mitted and-lowering in dignity to work call and-lowering in think, is a great mism. This, I think, is a great mism. This, I think, is a great mism. This, I think, is a great mism. There girls on the farm. I cannot agree with writer of "Tragedy of Farmer's Wife." I can still find time to help with milking and enjoy the out-ning. There is no carrying to do, as milk conveyance carries milk from a milk conveyance carries milk from a milk conveyance carries milk from a milk to cooling vat.

The to cooling vat.

The farmer's will adaughter can help with the milk pail other light out-side work. It help and the farmer's in all the ins and outs of farm life and in so doing to the light out-side work. It help will be milked to unite and strengthen the farmity.

I notice that the farmer's son, professional or business man, shows good ressional or business man, shows

...

Renew your subscription now

FOUNTAIN PEN FREE A 14 kt. Gold Fountain Pen will be given to any person who secures only one new subscription for Farm and Dairy. These pens are guaranteed to give satisfaction. Try and win one. Send for sample copies.



Bicycle Ball-bearings and rigid stand make the "LEADER" easy running— and there is nothing to interfere with pail being placed beneath bar to drain off the butter-milk.

"Leader Churn" Can be used either by foot or hand— sitting or standing. Made of strong white sweet and clean — won't crack or chip like glass and crockery— and will last for years. If your dealer does not handle them write for information.

CUMMER DOWSWELL LIMITED, . Ramilton, Ont.

## PAQUET CUARANTELD

### A REVOLUTION

IN METHODS OF MAKING AND SELLING MEN'S CLOTHES

AQUET Guaranteed CLOTHES repres AGURT Guanateet CLOTHES represent the latest advance in Gushes Making They are not "Ready Gushes Making They are not "Ready have the ask tage "Gushes Made." They have the ask tage "Gushes Made." They have the ask tage of the second to the s

### THE SUIT ILLUSTRATED

in made from absolutely PURE WOOL, navy or black serge, best Indig Dy., thoroughly shrunk and absolutely guarantee to the property of the serge of t 

Write for FREE Style Book

illustrating New York's latest models, and con taining samples of the very newest material disc contains our special self-measurement chart anyone using it is absolutely certain to be



QUEBEC. CANADA 110. on

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#### a better understanding of His Infinite will.—I. H. N. The Upward Look r, eeeeeeeeeeeeeeeeeeee

What Works Have We?

But wilt thou know, O vain man, that faith without works is dead.— James 2.20.

But with thou know, O vain man, that faith without works is dead.—James 2.20.

Our text this week is a warning. It is, also, a light to guide our way. He would have used that it is not sufficient to believe and that it is not sufficient to believe that the ladder stretched out for his rescue would have us do out fail and and the would have us do out fail and the ladder stretched out for his rescue would answer the purpose, but unless he put his belief to the test and used the ladder he would not be saved. So it is with each of us. We may believe that God has the power that we need to enable us to overcome our lack of the property of the work of

...

#### Our Labor Saving Contest

Our Labor Saving Contest

The housewives of olden times must indeed have had a serious and hard problem many times to do all they had to do, with the crude tools and appliances at their disposal. These days our housekeepers are blessed with most took and their disposal. These days our housekeepers are blessed with most took and their disposal to the serious and their disposal to the serious and their disposal took and their disposal took and their disposal to the serious and their disposal their disp

goods.

A similar contests was started some time ago by a woman's maggine in the United States, and caused much interest and enthusiasm among its readers. The number of letters received in reply to this contest was most encouraging. There seemed, however, to be some mystification as to the nature of a household aid. Some woman described a whole house, others would be succeeded by the seement of luxuries and were in the nature of luxuries and other decidedly in the way of others. But there were a number of women who answered well, so large a number that the awarding of prizes became an exceedingly difficult the order of popularity. This is the list:

For curiosity, a set of the favorite aids was compiled in the order of popularity. This is the list:

2. Food (Shookers,
3. Steam Cookers,
4. Double Roasters,
5. Electric Irons,
5. Electric Irons,
6. Hand-Vacuum Cleaners. A similar contest was started some

- 4. Double Roasters,
  5. Electric Irons,
  6. Hand-Vacuum Cleaners,
  7. Dustless Dusters,
  8. Mop Wringers,
  9. Clothes Washers,
  10. Cleansing Powders.

O. Cleansing Powders.

10. Cleansing Powders.

THREE PRIZES FOR LETTERS.

THREE PRIZES FOR LETTERS.

A first prize of \$2, second prize of \$1.00 and a third prize of a renewal subscription to reason to reason the prize of a renewal subscription to prize of a renewal subscription to Farm and Dairy, sent to one of your Friends, will be given for the three best letters on the above subject. If you can send a photograph or ink drawing of your pet device, so much the better. It will count all the more in the awarding of the prizes.

Address all communications to Labor Saving Contest, Household Editor, Farm and Dairy, Peterboro, Unit.

#### A Use for Tweezers

Why not keep a pair of tweezers in the work basket? You have no idea how useful they are to pul born ends of basting cotton particularly when the machine strength and the tweezers with the sample of the sample of

#### ... Pattern Department

We must caution readers in order-ing patterns that they take more care in sending us the necessary informa-tion, that their orders may be filled

with accuracy and promptness. Be sure and give name and address, number of pattern desired, or size of pattern ordered. This last information is the chief one that bothers most people ordering, who do not give all necessary details in their order. We cannot send out patterns unless we have size desired, as should the pattern not be correct, it takes much time to return it, as well as expense and annoyance. Hereafter, all patterns is that do not mention size, we shall take it on ourselves to order a medium size.

... For Scalloped Edges

For Scalloped Edges

Before buttonholing the edge of
centerpieces, towels or collars, when
the scallop is not too small, in place
of running the elge try sewing it on
the machine. It will be stronger and
the scallop is not too small, in place
of running the elge try sewing it on
the machine. It will be stronger and
the scallop is not too provide the scallop
in length of darning cotton and
hold it length of darning cotton and
hold it end to the buttonhole edge and the thick of the buttonhole edge and the thick of the buttonhole edge and the thick place in the
ting instead of cutting the linen clear
to the buttonholing, cut it one-third
of an inch, then turn under the linen
and catch it to the buttonholing. No
matter how many times the piece is
matter how many times the piece or
produced it can never fray. Where
the scallop, cut close the chain stitch,
then buttonhole over the chain stitch,
then buttonhole over the chain stitch,
then buttonhole over the chain stitch, an edge which can never fray. ...

#### Prize Garden Contest

Prize Garden Contest
Much interest is being taken in our
prize garden contest, which we told
the boys and giffs about in the May
5th issue. Briffs about in the May
5th issue and the first planted,
and then again when the garden is in full
growth. These photographs is in full
growth. These photographs is in full
considerably to the interest taken
the competition. Read the condition
of the contest in the issue for May 5.
We want to hear from as many young
gardeners as possible.

#### ... Making Patches Invisible

When making any kind of wash-dresses, those for children especially, it is a good plan to baste a piece of the material on the inside of the dress and let it be washed with it. Then when the patch has to be put on it will be the very same color as the

Wash and rinse clothes as usual, was and rinse cloudes as usual, then rinse in skim milk. This simple substitute is better than starch, be-cause it will not stick to the irons nor rot the clothes.

... Renew your subscription now.

#### Woman's Kitchen Friend

This kitchen rack should be in every woman's home. You cannot afford to do your work another day without it. All the articles shown are household con-



veniences. Handles are black, and well finished. All regulation size and length. You can have this FREE, for a club of two new subscribers to Farm and Dairy, as \$1 each. Get the boys and girls to work securing two of your neighbors to work at \$1 and \$1 an

Ве нееееееееееееееееее

The Sewing Room

Patterns 10 each. Order by number for adults, give bust measure for Address with the Pattern with orders to the Pattern Company of the Pattern

TUNIC SKIRT WITH FIVE GORED UPPER PORTION 6627.



Short over skirts, or tunies, cut to form points at the sides are among the pretable and the sides are among the pretable sides and the sides are and the sides are always to have appeared. The sides are consistent sides are sides and the sides are sides are sides and the sides are sides are sides and the sides are sides are sides and the sides are sides are sides are sides and the sides are sides and the sides are sides and the sides are sides are sides are sides and the sides are sides are sides and the sides are sides are sides are sides and the sides are sides

with equal success.

Material required for medium size is 7yds. 20 or 21, 4yds.

wide: or 7 yds. of flouncing or bordered material 24 or 27 in, wide.

The pattern is cut for a 22, 42, 25, 28 and 30 in, waist and will be mailed for 10 cts.





The shirt waist that closes at the left of the front is a pro-nounced favorite of the season.

the season.

Material required
for medium size is 3%
yds. 21 or 24, 2% yds.
32, 2% yds. 44 in.
wide.

wide.
The pattern is cut
for a 32, 34, 36, 38, 40
and 42 in. bust, and
will be mailed for 10

ONE-PIECE WORK APRON 5638



One piece garments are a fancy of the present season, and aprons are much liked made in this way. This model is simplicity tead. There and buttonhole required to keep it in place and it can consequently be elipped continued in the continued of the continued of

The pattern is cut in three sizes, small, medium, large, and will be mailed for

BATHING SUIT 6655



The bathing suit always follows the general trend of fashion. Here is a model that is graceful and becoming yet perfectly simple. The blouse and skirt are cut in one, held at the waist line by the belt.

The pattern



Our "Champion" is easily the champion of all washing machines.
All cogs and machinery covered.

Lever and High Speed Balance Wheel operating together simply cut the work of washing to the lowest possible point. Ben't think of buying a washing machine until you have seen the "Champion". If your dealer can't show it, write us for booklet. 76 BAVID MAXWELL & SORS, - ST. MART'S, ONT.

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### MARKET REVIEW AND FORECAST

Toronto, Monday, May 30th.—Trade is rogressing in a steady fashion, and hilst there is nothing meteoric about whilst there is nothing meteoric about the present status of the markets, the gen-

progressing in a steady meanon, whilst there is nothing meteoric about the present status of the markets, the general tendency is excellent.

When business in England has recovered from the late violent blow caused by the front the late violent blow caused by the control of the activity will be a resumption of the activity will be a resumption of the activity will be a resumption of the activity of the control of the activity of the control of the activity will be a resumption try. As a sign of the outlay that the stated that very few of them have suit stated that very few of them have suit stated that very few of them have suit demands of the public containing the present of the present

5% to 6 per cent.

Wheat is still declaing on the Chicago market and on Thursday showed a break market and on Thursday showed a break previous. All foreign cf. from the day previous. All foreign cf. from the day revious. All foreign cf. from the day in the state of the control of the contro



COARSE GRAINS

That is no variation in the price of coarse grains from that noted last week. Dealers quote American corn, No. 2, 66%, No. 3, 66c a bush.; Canadian corn, 66c to 61c, Toronto Treights. Canadian western casts, Me to 36c; Ontario white, 32c to 34c cast, Me to 36c; Ontario white, 32c to 34c cast, Me to 36c; Ontario white, 32c to 34c cast, Me to 36c; Ontario white, Me to 36c; Tye, 66c to 68c, and buckwheat, Se a bush. On the farmers' market, cuts an albuh. On the farmers' market, cuts an albuh. On the plan, 76c; barley, 48c, rye, 48c; buckwheat, Se a bush.

54c a bush. Montreal prices are as follows: Corn, 65½c; cats, Canadian westerns, 34c to 37c; peas, 80c; barley, 45c; and buckwheat, 54c

HAY AND STRAW

HAY AND STRAW
Hay is holding up well in figure and
good prices are being realized by those
fortunate cough to have a surplus and
fortunate cough to have a surplus and
dealers quote No. 18 to market. Local
dealers quote No. 18 to market. Local
and inferior quality \$15.0, \$15.5 to \$14,
and inferior quality \$15.0, \$15.0 s.
to \$1.5 to \$

ton.

On the farmers' market choice timothy is selling at \$30 to \$32 a ton; clover mixed, \$212 to \$14; straw in bundles, \$14 to \$15; and loose straw, \$8 to \$9 a ton.

and \$15 to \$14, \$8 to \$10 at 50 at 50

THE WOOL MARKET

Prices are unchanged from last week's quotations. Local dealers quote, washed fleeces, 21c to 22c: unwashed, 13c to 14c: rejects, 16c a lb. Farmers are being paid 39c for washed and 12½c to 13c a lb. for

MILL PEPPE

MILL FEIDS

Manitoba bran is quoted by local dealers at \$9; shorts, \$21 a ton on track, Torconto; Ontario bran, \$90; and shorts \$22 a
ton on track, Toronto.

Toronto, La stational bran is quoted
at \$13 ton; Annitoba bran is quoted
at \$13 ton; Ontario bran, \$97 to \$20 a
to \$21 a ton; Ontario bran, \$97 to \$20 a
ton; shorts, \$21 a ton. Policy Brands Brands

EGGS AND POULTRY
Farm and Dairy is setting on foot an
excellent work in getting the farmers to
organize egg-circles in the Congranice of the
erboro. It would be grand thus gr with
farmers throughout the whole of Conna
if they could be brought to realize the
immense benefits that are bound to accrue to them from the adoption of such a
same and business like method as cooperation in the ratter of egg classifica-

tion. Very heavy supplies are daily coming into the market and the prices are gradually lowering. Case lots of freshlaid eggs are quoted by dealers at 20c a dozen. On the farmer, market eggs are selling at 20c to 22c a dozen. In Montreal very heavy consignments are reported, and eggs are quoted at 17½c to 18c a dozen in case lots.

in case lots.

Prices for poultry remain the same on
the Toronto market. Dressed chickens
sell at 19c to 20c a lb; turkeys, 18c to 20c;
geese and ducks, 15c to 16c, and fowl at
12c to 14c a lb. the

#### POTATOES AND BEANS

Ontario postatose continue to be a veritable drug on the market, selling at anywhere from 36e to 46e a bag on track, Toronto. Delawares are quoted at 45c to 8c a bag on track, Toronto, and 55c to 8c a bag on track, Toronto, and 55c to 8c a bag onto a force. On the farmers' market, polations are selling at 65c to 76e a bag.

Following are the quotations for hides: Imported steer and cow hides, 10% to 11% a lb; bulls, 9% to 11% co all skins, 515 to 16c; sheepskins, 81.25 to 81.35; tallow: 5% to 6% a lb., and horsehair, Me a lb.

#### DAIRY PRODUCTS

Supplies of butter are coming in very freely, and the market is easy. Best ereamery prints are quoted in the superaction of the prints, 26 to 16 a lb.; dairy prints, 26 to 16 a lb. on the farmery choice dairy butter is quoted at 26 to 16 and ordinary quality at 26 to 26 a lb.

The cheese market is easy and dealers quote 12 a lb. for targe and 12 a lb. for targe and 12 a lb. for twins.

wins.
In Montreal there has been a In Montreal there has been a good deal of shipping of butter to northwestern points within the past week, and export-ers seem to think that the demands of the home trade will interfere very seriously with the export business. As prices are considerably lower in England at the present time than they are in Canada the situation can be regarded with equani-mity.

Local dealers quote choice creamery but-ter, 24c to 24\%c a lb., and cheese at 11c to 11\%c a lb

HORSE MARKET.

HORSE MARKET.

Receipts of horses have been light but the demand has been good and whatever sales have been made, have draft horses, 2800 to 5800; arricultural and general purpose, 5150 to 5220; drives 1550 to 520; expressers, 5155 to 5250; expressers, 5155 to 5550; serviceably sound horses, \$50 to \$100.

LIVE STOCK

LIVE STOCK.

The advent of the holiday had a quieting effect on the market in the earlier part of the week, and the tendency throughout the balance of it was somewhat secepts were comparatively light and prices for all except butcher grades, a trifle lower than those given in last week's advices. Hogs still keep at the usual level.

Some idea of the great decrease in the Some idea of the great decrease in the supply of hogs across the border may be gained from the fact that whereas last week the export clearance of hog pro-ducts, such as pork, bacon, lard, etc., were 8,455,000 lbs., last year they amount-ed to 17,607,000 lbs. whomig a decline of 9,-

The following are the present ruling prices for cattle and hogs on the local

Choice exporters—\$6.50 to \$7.50; medium, 5.75 to \$6.25. 85.75 to \$6.25.

Butchers' cattle—\$5.25 to \$6: medium, \$4 to \$5: bulls, \$4 to \$6.

Stockers—\$3 to \$5.25, according to qual-

Feeders, choice—84 to \$5.50; ordinary, 3.50 to \$3.75.

8.5.90 to 8.7.8.
Milch cows, choice—850 to 875; medium, 840 to 850; ordinary, 830 to 840.
Soringers—940 to 860; canners, 82 to 82.75 a cwt.; calves, 83 to 86.25.
Sheep, ewes—85 to 85.75; bucks, 84 to 84.50; lambs, 85 to 86.30; spring lambs, 83.50 to 86.25.

Je 7 Trades State On the American -Keep a

Checking Account Put your private expenditures on a business basis, and pay your bills

Bank. Then you are never short of cash to make a payment demanded unexpectedly. Nor do you need to bother with receipts-your cheques provide them automatically.

by cheques on the Traders

There's a prestige, too, in paying by cheque, that is well worth while.

#### THE TRADERS BANK OF CANADA

Capital & Surplus over \$6,550,000



The Canadian Airmotor Is the only Free POWER

BUILT TO STAND Storms, Wear, Tear and Time Will work summer and winter all the year round.

NEVER KICKS OR QUITS

Ontario Wind Engine & Pump Co., Ltd. TORONTO

PETERBORO HOG MARKET. Peterboro, Monday, May 30.—The George Matthews Co. of Peterboro, are not in the market this week for hogs.

MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal, Saturday, May 3th — The
market this week for live hogs has been
steady with prices well maintained owing to the comparatively light supply.

The entire offerings were quickly piecke
up by the local dealers at prices ranging
to the comparatively light supply.

Be seen that the comparative light supply.

Be seen that the c

EXPORT BUTTER AND CHEESE

Springers—60 to \$60; canners, \$2 to \$275 a cwt. called in the spring lambde of the spring lambde of the spring lambde of the spring lambde. Spring lambde of the spring lambde of

There are No Plows like FLEURY'



We are the ORIGINAL MAKERS of the fam-is "FLEURY No. 21," the Dandy," No. 13 and No. 15 A (One Horse) Plows

take IMITATIONS offered by others. Insist on getting FLEU-RY'S "ORIGINAL No.

21," or "Dandy." Imitations are gen-

emily INFERIOR, — no less in PLOWS than in other things.

J. FLEURY'S SONS, Aurora, Ont. Medals and Diplomas: World's Fairs Chicago and Paris.

YOUR One man can make 300 to 600 perfect tile a day

WITH FARMERS' CEMENT TILE MACHINE At a cost of \$3 to \$5 per 1,000. The only farm tile machine that does not require hand tamping; the only farme s' machine operated by either hard our power. Machine makes 3, 4 and 6 inch tile, 12½ inches long. Our Water-Proof FEEXBLE CASING holds tile in perfect shape till set. NO PALLET.

ASING holds tile in perfect shape this set.

TEN DAYS' FREE TRIAL. If after ten days' trials it does

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TEN DAYS' FREE TRIAL IN TRIAL TEN DAYS FREE INIAL. II arrested days trains it uses not meet with entire satisfaction, return at our expense. The price of the machine will be saved in making your first 2000 tile CAN YOU AFFORD TO BE WITHOUT IT? Write today for illustrated catalogue.

FARMERS' CEMENT TILE MACH. CO. WALKERVILLE, ONT.



to 45,000 boxes, as compared with \$7,000 boxes for the corresponding week last year. This representation was a superior of the matter of the m

to the farmers of the Dominion of Canada.

The demand this week has been fairly active, and although the shipments for the week have been comparatively small, still the demand has been sufficient to the week have been comparatively small, still the demand has been sufficient to the sufficient of the week and the country markets there has and in the country markets there has and in the country markets there has and a losing firm with the country, and unless we have a beginning of the week and closing firm with 10% of the training firm of the week in spite of the heavy receipts, which are fully 50 per cent. greatestip, which are fully 50 per cent. greatestip 50

#### CHEESE MARKETS

Woodstock, May 25.—40 boxes of white Moodstock, May 25.—40 boxes of colored offered; 10% bit no sales.

Madoc May 25.—705 boxes boarded; 161-516 bit; no sales.

Withohester, May 25.—914 boxes registered, of which 56 were colored and the balance white; 10% was offered; nome sold on the beauty.

on the board.
Alexandria, May 26.—762 boxes offered:
all white; all sold at 10%.
Belleville, May 26.—264 white offered;
sales 1385 at 10%: and 975 at 10 13-16e.
Brockville, May 26.—2646 colored and 930
white offered; 990 colored and 930 white
sold at 10%:

Brockville, May 22.—200 colored and 810 white sold at 10½.

Sold at 10½.

Kingston, May 25.—2522 white and 302 kingston, May 25.—2522 white and 302 kingston, May 27.—1700 cars of cheese sold at 10½.

Napanee, May 27.—210eses boarded 2230; sold, 400 at 10½.

Napanee, May 27.—210eses boarded: 1930 white and 200 colored. All sold at 10½.

Perth. May 27.—2130 boxes boarded; 435 white and 200 colored. All sold at 10½.

Hera and 200 colored. All sold at 10½.

Brantford, May 27.—210 forced 310 kingston, May 27.—210 forced 310 kingston, May 27.—300 forced and 16½.

Iroquois, May 27.—642 colored and 16½.

Littory May 27.—300 forced, 366 white, All sold at 10½.

Cornwall, May 27.—300 forced, 366 white, all sold at 10½.

Cornwall, May 27.—300 forced, 366 white, all 10¼ at 10½.

Littory May 27.—300 forced, 366 white, all sold at 10½.

Picton, May 27.—22 factories boarded 2051 heese; all colored; 10 13-16c bid; 2015

80ld. London, Ont., May 28.—13 factories of-fered 1655 boxes of cheese: 445 boxes of white: balance colored. No sales. Bid-ding 10½ to 10½. Waterford, Ont., May 28.—1055 boxes of-fered: 715 boxes sold: 490 at 10 3-16c and 25. Waterford, N. Y. May 28.—260 boxes.

Watertown, N. Y., May 22-6600 boxes sold at 16½c to 15½c for large and 14½c. In 15½c for large and 14½c. St. Hyacinthe, Que., May 22-500 boxes of cheese at 15½c.

#### GOSSIP

GOSSIP

The Whipple Horse Collar Co, of Hamilton, Ont., are advertising a specially constructed horse collar which has had a large sale in the United States, and seems to be a solution to the difficulty which arises from sores on necks and shoulders of the second seems to the merits of the median to the merits of the seems the little book, "Horse Collar Sense," from the above mentioned company.

PROFITABLE DAIRYING
One of the neatest and most instructive
pamphies that it has been our pleasure
pamphies that it has been our pleasure
many-Harris most band from the
Massey-Harris Profitable Dairying." It is
printed on high quality paper, profusely
illustrated with types of dairy breeds and
many dairy scenes. Much information
of a valuable nature relative to dairying

ABSORBINE

th remove them and leave no has Does not blister or re th. a. T. Cures any puff or awolling. H. B. Cures any puff or awolling. H. B. Cures any puff or awolling. B. D. Frankind, 21.00 battle ABSORBINE, JR., (mankind, 21.00 battle, Batla, Brulses, Old Sores, Swellings, Goist Allers Pain. W. F. YOUNG, P.D.F., 123 Temple St., Springfield, Mas.

Dr. Bell's Veterinary Medical Wonder cures The soth century wonder. Agents wanted county. Write for a free trial \$1 bottle. This y good for 60 days. Limited to 500 bottles. only go DR. BELL, V.S., Kingston, Ont.

### MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE. Boars and sows for sale. J. W. Todd. Corinth, Ont., Maple Leaf Stock Farm. Etf

NITHSIDE FARM

Herd of large English Berkshines, South-down sheep and Silver Grey Dorking fowl. Orders now taken for January pigs, ready to wean, at 8 weeks old, single or in pairs not related. A few young sows about 3 months old to apare. Also Silver Grey Nation of the State out. Satisface of State of State of the State out. Satisface of State of State of the State of State of

E. E. MARTIN, Canning P.O., Paris Station, Oxford Co., Ont.

### CHESTER PIGS

I am offering for sale Ohio improved Chester White pigs, all ages; 100 under 6 weeks old. The largest kind is what I import,. J. H. M. PARKER

Willowdale Stock Farm, Lennoxville, Que. Importer

TAMWORTHS AND SHORT HORNS FOR SALE Young and matured sows sired by Imp Boar, dams by Colwill's choice Canada Chambion Bear in 1901-25 and '65. Also Chambion Bear in 1901-A. A. COLWILL, Box 9, Newcastle, Ont.

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BULL CALVES

Bull Calves only from R. U. P. cows and others now on test. Ages from one week to 12 months. Prices right Long distance phone.

JAS. BEGG, Box 88, St. Thomas, Ont

TWO AYRSHIRE BULLS FOR SALE 12 MONTHS OLD

Of Choice Bredding, sired by AUCHEN-BRAIN GOOD GIFT (Imp.)—27259— The dams are cows with good milk and fat re-cords. Of good size and ready for service. Price f.ob., with registered pedigree, 850 cach. Also a few Bull Calves by same Sire. Write.

.W. F. STEPHEN, Huntingdon, Que.

"La Bois de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred YORKSHIRES of the best bacon types. WHITE ORPINGTON, WHITE WYAN-DOTTES and BARRED ROCK Poultry.

HON. L. J. FORGET, Proprietor J. A. BIBEAU Ste. Anne de Bellevue, Que.

#### FOR SALE-AYRSHIRE BULLS

From one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to

DANIEL WATT OR TO HON. W. OWENS, Manager, Proprietor, E-5-19-10 Riverside Farm, Montebello, Que.

### SPRINGHILL AYRSHIRES Imported and home bred stock of all ages for sale. Stock shown with great success at all the leading fairs.

ROBT. HUNTER & SONS
Maxville, Ont.

Long distance phone.

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FOR SALE.—Cornelia's Posch, five times ist prize buil at Toronto and London Fairs; also five of his sons, all from record of merit cows. Also females of all

THOS. HARTLEY Downsview, Ont

#### LYNDEN HOLSTEINS

FOR SALE—One bull calf, 5 months old. dam, Spotted Lady De Kol, No. 8118, 13,212.22 lbs. milk, 591.41 lbs. butter, in 11 months. Also two year old heifer, a grand daughter of Calamity Jane.

SAMUEL LEMON Lynden, Ont

FOR SALE

An extra good yearling Holstein bull for sale from a 30 lb. sire and a 17 lb. dam. Am also in a position to offer cowe in calf to Francy III's Admiral Ormsby, Dam, Francy III. Butter in 7 days, 2515. All stock guaranteed to be just as represented. J. A. CASKEY, Box 144, Madoc, Ont.

#### LYNDALE HOLSTEINS

We are now offering for sale a 15 mos old son of "Count Do Kol Pretertji Paul" out of a 20 lb. dam; also a son of Sart Hengerveld Korndyke, from an 18 lb. cow Both choice individuals, fit for service. BROWN BROS, LYN, ONT.

#### EDGEMONT HOLSTEINS

For sale, one yearling bull, fit for ser vice; also bull calves from Record of Per-

formance Cows.

G. H. MCKENZIE,

#### Thornhill, Ont. RIVERVIEW HERD

FOR SALE, 2 Bull Calves, sired by Sir Anggie Beets Segis, son of King Segis, world's greatest 5 year old sire, dam segie Lily Pletertje Paul, champion Jr. 4 year old-25 db bs. butter 7 days. Dam of year old 25 db, 2 year old, and 23 lb. 4 year old price reasonable considering breedings.

P. J. SALLEY Lachine Rapids, Que.

#### LAKEVIEW HOLSTEINS

Count Hengerveld Fayne De Kol heads the herd. His sire, Pietertig Hengerveld Count De Kol, is the sire of the world's De Hengerveld Fayne Count De Kol, is the sire of the world's hamiltone of the World Hengerveld Fayne Jaya. His dam, Grace Fayne End, has 2.50 has butter in 7 days, and is the dam of Grace Fayne End's Homestead, the of Grace Fayne End's Homestead, the butter in 7 days. Bull calves for sale.

E. F. OSLER, Bronte, Ont.

#### AYRSHIRES

#### BURNSIDE AVESHIRES

Presh importation just landed of 12 of the control of the control

Burnside Stock Farm, Howick, Que.

#### SUNNYSIDE AYRSHIRES.

SUNNYSIDE AYRSHIRES.
Imported and home bred, are of the choicest breeding, of good type and have been selected for production. THREE young bulls dropped this fall, sired by "Nether Hall Good-time" -26541— (Imp.) as well as a few females of various ages for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que. ('Phone in house.) 0-5-19-10

#### STONEHOUSE STOCK FARM Is the home of most of the

coveted honors at the leading eastern Exhibitions, including first prize old and young herd.
FOR SALE a few Choice Young Cows, also Bull Calves.

HECTOR GORDON.

0.9.8.10 HOWICK, OUE. RAVENSDALE STOCK FARM

#### Ayrshires, Cydesdales and Yorkshires

If in need of good stock, write for prices which are always reasonable,

W. F. KAY,

#### HOLSTEINS

#### **BULLS! BULLS! BULLS!**

A less than half their value for the next 30 days. Write

GORDON H. MANHARD MANHARD, ONT., Leeds Co,

#### HOMESTEAD HOLSTEIN HERD

HOMESTEAD HOLSTEIN HERD Headed by the great young sire, Dutch-land Colantha Sir Abbekerk. Dam, Tidy Paulino De Kol, butter 7 days, 23.44. Sire's dam, Colantha 4th's Johanna, butter 7 days, 35.2. Average of dam and sire's dam, 31.81 bs. Bull calves offered, one to seven months old, from dams up to 25% bs. butter in 7 days.

days EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont.

SUNNYDALE

OFFERS A GREAT BULL, Duchland Sir Bengerveld Maplecroft No. 2520. He is a son of the champion buil of the Holstein son of the champion buil of the Holstein pear in Farm and Dairy, June 10th, 1999, write for particulars. He has two dupic ters milking. One tests 37, the other 4 per cent. Also one good buil Cair.

A. D. FOSTER, Bloomfield, Ont. 5-5-10 Hallowell Station, C.O.R

### GLENSPRINGS HOLSTEINS

Three Fine Young Bull Calves, from A. R. O. and R. O. P. cows for sale. Also COUNT GEBERN 443. born April 24, 1904. Barthonia. Compared to the compared to the

Butter in 7 days, at 3 yrs. 16.16. Butter in 7 days, 26.11. Sire, Manor De Kol 32 A. R. O. daugh-Sire, De Kol 2nd.

Butter Boy 3rd.
43 A. R. O. daughters.

E. B. MALLORY, Frankford, Ont

#### SUMMER HILL HERD

REGISTERED HOLSTEIN CATTLE

REGISTERED HOLSTEIN CATTLE
This year our herd has made two
World's Records, and two Canadian RecWorld's Records, and two Canadian RecJennie Bonerges Ormsby 2516, calved as a
two year old, gave 16,99 lbs. milk, containing 535 pounds butter in 36 days. (Official
giog 530 pounds butter in 36 days. (Official
giog 530 pounds butter in 37 days.

She also made 14,39 lbs. butter in 7, days.
How the world's Record for that period.

She will do much better.)

These bitter contains the Recording record for helfers calving before two years

These bitter females are all of the New Years

These bitter females are all of the New Years

obs. outter in 7 days, which is Canadian olded for heiers calving before two years olded for heiers calving before two years of the first product of the same breeding of the Francy family. We have we will be supported by the first product of the first product o

D. C. FLATT & SON, Millgrove, Ont R. R. No. 2. E.T.F.

### HOLSTEINS

WINNERS IN THE RING Gold Medal Herd at Ottawa Fair

WINNERS AT THE PAIL See Our A.R.O. Records

Just the kind we all want. They combine CONFORMATION

PRODUCTION Bull and Heifer Calves for Sale from Our Winners

### LES CHENAUX FARMS

Vaudreull, Que. Dr. Harwood, Prop. D. Boden, Mir.

COMPTON CO., QUE.

COMPTON CENTRE. Parmers are getting on well with their work. Grain is
growing fast but grass is not coming on
so well. The road work has got well
going to the composition of the comp

#### ONTARIO

HASTINGS CO., ONT.

HASTINGS CO., ONT.
SIDNEY CIGOSSING.-Pasture is in good condition. Some pieces of wheat were condition. Some pieces of wheat were that the property of the pro

NORTHUMBERLAND CO., ONT.

NORTHUMERICAND CO., ONT.
WICKLOW-more farmers are sowing
fields that the granted more than a
month ago, the same of the same of the
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#### DURHAM CO., ONT.

FLEETWOOD. — Owng to the warm FLEETWOOD. — Owing to the warm challenge of the property of the property of the country of the c

VICTORIA CO., ONT.

VICTORIA CO., ONT.
LINDSAY.—Our local Bee Keepers' Association held their annual meeting on the 24th of May 1. The control of the 15th of the 15th of 15th of

BURY'S GREEN. — Farmers are still busy preparing for a large root crop. Con-siderable corn will no doubt be planted for early fodder.

for early fodder. Some have given up the silo business Some have given up the silo business the owner of which is fast taking the the owner of which is fast taking the diright diright also in the growing of alfaliance of the recent showers. Hay is growing rapidly, and will likely be a

Bickmore's

al Company, Ltd.,

OUR FARMERS' CLUB contributions Invited.

QUEBEC COMPTON CO., QUE.

#### HALIBURTON CO., ONT.

HALIBURION CO., ONT.
KINMOUNT.—The cold, dry weather with
some frost has checked the growth of both
grain and grass. Clover in the low land
has been hurt with frost. Corn and
poster planting is being rapidly pushed
poster planting is being rapidly pushed
blossom, which mean of fruit are full of
blossom, which mean of grait are full of
blossom, which mean of grait are full of
blossom, which means the grain of the
warm weather to make them grow fast,
warm weather to make them grow fast.

WENTWORTH CO., ONT .

WENTWORTH CO., ONT.

KIRKWALL.—Weather is backward and
there has been very little growth. Nearly
all cattle, excepting cows are out to
successful to the control of the control
and root grouns and root groun and
root groun and growth of the
quite a large acreage of corn soro for
the silo this year. Young stock of all
kinds are scarce and high in price. Young
pligs six weeks old are selling for from
\$7 to \$50 a pair and fat hogs are now
\$9.25 a cett., and expected to go higher.

Wheat is \$1.00 a bushel, oats, 40 cents a
bushel; bran, about \$22 a tous, and shorts, bushel; bran, about \$22 a ton; and shorts, about \$25 a ton.—C. E. W.

#### MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.

On the second day of May we had a very heavy rain, which did considerable damagnes to the roads, bridges and farms. Many of the roads, bridges and farms. Many of the roads of the magnin. G. M. James delivered to et al., and the bunch labor to foot them. King George the fifth, and not foot them. King George the fifth, and not the many pretty high for their roast beef when they sample a cutting from one of these big sample a cutting from one of these big fellows. Much complaint is heard among feel when the sample is the sample of the sam

female calves, but this is a common occurence.

"To prevent milk fever, do not milk a newly freshend cow the first day," is what an old dairyman told me recently. Hundreds and hundreds of sprice trees have been planted out this vicinity, which in a few years will aford a wonderful protection—J. E. O.

LITTLEWOOD.—Mr. P. Love of this place had this to say about their farm oper-

LITTLEWOUD.—Mr. r. bore of the plant this to say about their farm operations:

and most of the farmers looking for another bumper crop.

vineworm say destroying some of the cats and bariey. One man, who is thinking to buying a horse from us, is waiting to of buying a horse from us, is waiting to obtain the control of these control of the cats and bariey. One man, who is thinking to buying a horse from us, is waiting to the cats and the cats an

#### ESSEX CO., ONT.

ABNER. — Increased rains are making corn planting late. A small quantity has been planted but the bulk of the crop is yet to go in. Clover is doing well and has made rain abundant crop. Wheat has made rained to a small has made rained to so much ice in the spring. Oats are doing well especially the early sown ones. Tobacco plants are small for the time of Tobacco plants are small for the time of the control of the control

#### MANITOBA.

MARQUETTE CO., MAN.

MARQUETTE CO, MAN.

KEILOE—On the 18th and 19th of May
we had a very heavy fail of snow, but it
was all gow the hight of the 20th,
when a heavy rain the night of the 20th,
when a heavy rain the night of the 18th
appear to have harmed the crops in the
least, and the rain was very much needed.
The gardens did not seem to be propressing as rapidly as they should until this
last rain. The prices for all kinds of
stock still keep high. But grain prices are
not so good as in the early spring.—L. J.
N.

### LIVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$9.50 a Cwt. OR HOGS, WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, -HULL, -BRANTFORD

#### SASKATCHEWAN

HUMBOLDT DIST., SASK.

HUMBOLDT DIST, SASK.
VONDA.—Dry weather still continues.
Wheat had a good start but has been cut
by frest although it does not seem too
have hurt it. Seeding is mostly all finished. Old settlers say there will be a
good crop. Wheat is worth at the elegood crop. Wheat is worth at the elegood crop. Wheat is worth at lac
join ergs., rolt. 25c harter, 35c; butter,
5c; ergs., rolt. 25c harter,
5c; ergs., rolt. 25c har

#### GOSSIP

section of this issue of Farm and Dairy is a particularly promising animal, that Mr. Sherriffs is willing to sell at the reasonable figure. This mare should make a good showd to enhibited at the fall fairs. She was since of several prizes at the Congression of section of this issue of Farm and Dairy was a standard bred mare and was the noted stallion, Centaur.

The columns of "Farm and Dairy" are GOSSIP

Grace, the handone chestnut mare owned by Mr. J. Sheriffs, of Rockland, Ont., and illustrated in the illustrated A. McEwen, Wellington Co., Ont.



#### A Frank Statement

OW many manufacturers of ready roofing will tell you frankly how their goods

Mighty few. They will talk about "secret formulas," pecial waterproofing compounds," etc.-

They don't tell you what the goods are made because they don't dare.

From the start we have never hesitated to tell the buying public just what Amatite is made of and just what it will do.

#### How Amatite is Made

Amatite is made of two layers of Coal Tar

the greatest water proofing materia Alternating with these two layers of pitch are two layers of coal-tar-saturated wood felt to give it tensile strength.

On top of these four layers is a real mineral rface-five layers of protection.

The mineral surface is permanent, fireproof, and absolutely requires no painting.

#### It Needs No Painting

Roofings that require painting are a worry and an expense. Every year or two you have to climb up and give them a coating with some special compound sold by the manufacturers, or you are pretty sure to have a leaky roof.

#### Amatite is Making Good

We are constantly receiving letters fra torners telling us how satisfied they are w Amatite—how much better it is than the old fashioned roofing. Year after year, in all weather, Amatite will

give perfect service without any painting of attention of any kind.

Surely this is the kind of service that win nd keeps custo

#### Free Sample

Before you go to your dealer and buy a roofing, we should be very glad to send you a sample, so that you can see for yourself just what we are talking about—what a solid, substantial, reliable roofing we are offering to the public.

#### Something Back of It

Remember, in this connection, that Amatic is made by the larger manafasturers of roofing materials in the world, and that when you buy this roofing there is something behind it. We stand back of every roll. We know we are offering the beet and the most economical ready roofing on the market.

For the sample and booklet address our rest office.

THE PATERSON MANUFACTUR ING COMPANY, LTD.
Toronto, Montreal, Winnipeg,
Vancouver,
St. John, N.B., Halifax, N.S.,

Fa



Amatite on Lumber Sheds of B. F. Harris & Sons, Brushton, N. Y.

#### AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association, all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

Editor, Farm and Dairy — The clipping sent under the caption, "More Ayrehires for Canada," was misleading, as I learn to the terror of the control of the co

W. F. STEPHEN, 3ec.-Treas. Canadian Ayrshire Breeders' As-

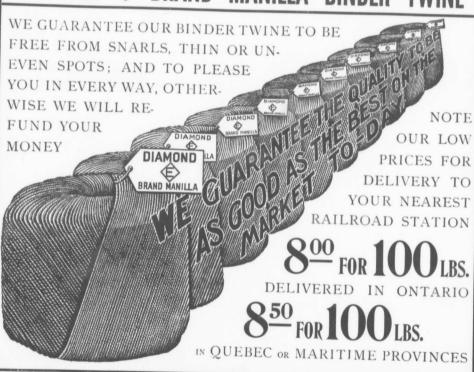
LARGE SHIPMENT OF AYRSHIRES FOR CANADA CANADA
Another large and important shipment of
Ayrshire cattle has taken place. Mr. A. W.
Montgomer, Lessensen St. A. Berner, S. Miller, Ayrshire, consigned by the S. Milleria, from
Glasgow, 25 choicely bred and order of Messra. Hunter & Sons, of Macville, Ont. These animals have all been
selected from herds of repute in various

parts of the country, and much attention has been paid to the milking qualities of the stock from whi he milking qualities of the stock from whi he will be a secured a grand, big, dark-colored cow, was entered to the control of the stock of the control of the stock of the control of the contro

to calve in the back end of the season, are from Mr. Montgomerie's own herd. Two of them are bred by Mr. Lindsay, Torrs, Castle-Douglas, one by Mr. R. Steel, Mquitteeten, and of the famous Glencaira strain; claim of the famous milk record herd of Mr. T. Clement, Netherton, contributes two fluely bred yearling bulls. One of them is from Agrahic method on the famous Glencaira strain; claim of the famous grant of the famous grant of the famous Glencaira strain; claim of the famous Glenc

James Garven, Dalmusternock. A very sweet, thickeel, tiltthe heifer, showing a grand udder and teats, was selected from the herd of Mr. James Mr.Nelli, Barietin, the herd of Mr. James Mr.Nelli, Barietin, and the herd of Mr. James Mr.Nelli, Barietin, and the herd of many set as knownthe old and off-texperious got as knownthe old the self-time of making out this report there have been duly notified of the first off-time of making out this report there credit for getting together such a magnification of the self-time of making out this report there credit for getting together such a magnification of the self-time of making out this report therefore the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there is under the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were the self-time of making out this report there were paid to self-time of making out this report there were paid the year. We have now the largest members in our his part of the paid to self-time of making out this report there were paid the year. We have no self-time of making out this report the paid the year of the year of

# DIAMOND 🕏 BRAND - MANILLA BINDER



Farm Implements in Our Spring and Summer Catalogue

EATON CO. TORONTO CANADA

Our Grocery Catalogue is Mailed Free upon request

## This 5-Ton Scale Is Easy To Bu

You need not club with your neighbors to equip your farm with the scale you need—the CHATHAM Pitless Scale. You can

Comes Ready afford to buy it yourself. It will save you more than its cost in one sea. No Bother For Use son. Up to five tons it will weigh accurately all you buy or sell. You can erect it ready to use in a morning.



Your CHATHAM Pitless Scale will be YOUR Scale that you can take with you when you move. You can always get for it what you paid for it. And you need no skilled help to set up the CHAT-HAM—it comes to you complete, with plain directions. Built wholly of heavy steel. Nothing to rust, decay or go wrong. Government guarantees its absolute accuracy. Tested before it leaves the factory. Warranted fully.

### This Is The Complete Scale

Bear in mind that you have no hard work to do in setting up a CHATHAM. It is all solid steel, stands on its own feet above ground,—no pit to dig, no fussy preparation needed before you use it. Comes to you so you can be weighing on it in a few hours after you get it. No skilled mechanic necessary at all.

### Special Compound Beam - No Extra Cost

This season we include our new Compound Beam with each CHATHAM Pitless Scale without adding a cent to the price of You can find no bigger bargain; yet the price is 'way down low. In sections where we have agents we offer special long-

time credit terms to those who would rather try the Scale before they pay for it. Write us and ask for full details.



Handy to move about as a wheelbarrow, yet accurately weighs up to a full 2,000 pounds. Swivelled pole and front wheels let you turn it short through doorways and around corners. Strong and staunch, too, like all scales we build.

#### You'll Never Wear It Out

Main frame is one solid and very heavy casting. Levers are special heavy and strong, so they won't spring under excessive strains. Bearings align themselves, because pivot rests on bearing loop—tilt the scale and it will still weigh right. And the price is very small!

I personally vouch for every statement this advertisement makes, and I further guaran-tee that my Chatham Pitless Scale is the biggest scale value you can buy for money in this or any other country. Write me country. Write me about it and I will see that this is proved to your complete satisfaction. Write now.

MANSON CAMPBELL President

WRITE US AND ASK FOR DETAILS

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REALLY COSTS NOTHING

You can easily afford this handsome, practical kit For our special send for details of it) lets you pay for it out of what it actually saves in lessen You should ask us about it at



Whole Table-Top one heavy sheet of

#### BRIGHT ALUMINUM

You cannot begin to know the CHATHAM by this picture, for the pic-To a cannot begin to know the CHATHAM by this picture, for the pic-ture cannot show even one of its most pleasing and valuable features— the SOLID SHEET OF BRIGHTLY-POLISHED HEAVY ALUMINUM the SOLID SHEET OF BRIGHTLY-FOLISHIND HEAVY ALUMINUM that forms the covering of the table top and extension leaves. This ALUMINUM is extra-heavy weight, pure metal—LOOKS LIKE SIL-VER—LASTS LIKE STEEL—cannor may be a few for the state of the table of the casily cleaned—simply perfection! And this along NILY kitchen easily cleaned—simply perfection! And this ADOMINY kitchen cabinety one can buy with an aluminum top—which ADOMINY kitchen cabinet you can buy with an aluminum top—which ADOMINY kitchen cabinet you can buy with an aluminum top—which ADOMINY kitchen cabinet you can buy with an aluminum top—which ADOMINY kitchen cabinet you can buy with an aluminum top—which ADOMINY kitchen cabinet you can buy with an aluminum top—which ADOMINY kitchen cabinet you can be always to be a supplied to the cabinet you can be always to be a supplied to the cabinet you can be a supplied to the cabinet

### YOU MUST SEE IT TO KNOW IT

You must see the Chatham Kitchen Cabinet to appreciate how handy, compact, sensible it is. Exterior of specially-selected black ash, hard as rock and beautifully polished. Panels of golden chestnut. Bake-board, drawer and flour-bin of snow-white basswood, with the CHATHAM everything you use in cooking is at your finger-tips. You for get meals ready sitting down. Your flour-bin (metal lined—holds proceed by a touch) is just in front of you. Six air-tight canisters (free were Verbauch) and in the shelf-rack, Big, dust-tight drawers hold spoons, egg-beater, funnels, strainers, etc. cample closets for kettles, pans and the like.

cample closets for kettles, paus and the like.

Everything in And you can tidy up as you Easily moved its place good long when you have a to sweep under place provided for all the things you now walk back and forth for, between pantry and table. The CHATHAM spares you all those countless deps. Cupboards for jams and tinued foods; three roomy drawers teps. Cupboards for jams and tinued foods; there roomy drawers shelf for dishes—enclosed on three sides, and a rod at the back as a plate rack. Fine French plate mirror in center door. As your hair in a second if any one comes. The CHATHAM is mounted on ball bearing castors. You can readily move it when you respecting up. Yet it is most solidly built—nothing shaky or wobbly about it. Whole thing is dust-tight, mouse proof—a permanent, durable, satisfying kitchen help, is dust-tight, mouse proof—a permanent, durable, satisfying kitchen help. is dust-tight, mouse proof—a permanent, durable, satisfying kitchen help.

### YOU SHOULD NOW INVESTIGATE

Yet, with all these convenience Yet, with all these conveniences
—features found in nothing else
—the cost of a CHATHAM is
probably less than you imagine.
You should write us for the
address of our agent nearest you. He can name you a price that will surprise—and he will gladly show you the Cabinet and point out its merits. Allow us to send you illustrated, explanatory

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Cabinets in my own home; and the wo men-folk say frank ly that they simply could not get on without it. It certainly does cut kitchen-work

square in half And I know we build it so well it can

MANSON CAMPBELL, President

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Makers of the famous Chatham Fanning Mill