

FARM AND DAIRY



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Do You Know that the Simplex is the only separator having the self-centering bearings?

There is considerable you ought to know about separators, and the better you know



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the better you like it. The better you know some separators the less you like them. There are thousands of satisfied SIM-PLEX users in all parts of the world, which should convince you that The Simplex Link-Blade is still in the lead.

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State Board of Immigration Montgomery, Alabama

Rural Hydro-Electric Power

The Act passed during the last ses-on of the Ontario Legislature for the ral distribution of Hydro-Electric ural distribution of Hydro-Electric power, provides that any number of ndividuals in a Township can petition be Township can petition the Township council to be supplied with power, giving the number of the the power, giving the number of the ot and as many particulars as possi-ile, and upon receipt of a petition, he Township council is to forward he petition to the Hydro-Electric the he petition to the Hydro-Electric Commission. Upon receipt of it the Commission sends an engineer to the ook into the situation and gather all particulars and data necessary to en-

particulars and data necessary to en-able them to furnish an estimated price for the power so petitioned for. If the estimated price is satisfac-tory to the applicants, the Township then takes the necessary steps to enter-into a contract with the Hydro-Elec-tric Commission to enable them to construct a line and supply the power. The individual farmers so applying are responsible to the Township for the cost, and no extra charge is visited upon the other ratepayers of the Town-ship who do not care to take power.

hip who do not care to take power.

also provides that the trustees of It also provides that the trustees or a Police village may make an applica-tion to the Township council, and if the estimated price is satisfactory the yelaw is submitted to the ratepayers of the Police village and if passed all of the Police village and if passed all ratepayers in that village are assessed for the power, the same as is done by he towns and cities. The Hydro-Electric Commission are

unable to give Farm and Dairy read-ers any definite idea of what the power will cost without first having the report of the engineer as to the disance, quantity of power to be used and expenditure necessary to conver the power to the particular part of the fownship required by the petitioners. It is interesting to learn that the

ommission have before them a good-Commission have before them a good-ly number of applications from the various Police villages and townships under this Act, some of which have been accepted and the necessary stens are being taken to furnish them with

Motor Truck on the Farm

The performance of a motor truck at Arcadia farms, Dutchess County, New York, shows what this vehicle can do when operated intelligently in connection with a large agricultural connection. The property embraces 1, or provide the state of the state of the embrane state of the st ing on a large scale. "My main object in using a motor

truck, was to save my horses," sa Maurice M. Minton, the proprietor.

The truck has carried from the rail-oad station to the farm, a distance of four miles, over 1.000 tons of fer-ilizer, two forty-ton loads of coal, 2,-00 barrels of cement and carloads of priver structures to the second various ofter materials. It has car-ried five car loads of grain to the sta-tion and transported doo tons of small stuff. Frequently it has gone to Fish-kill Landing, 10 miles distant, twice a day with heavy loads.

SHORT TRIPS INNUMERABLE

Its short trips are innumerable. It takes grain to the mill and brings back takes grain to the mill and brings back the ground feed. It takes tree trunks to the saw mill and carries back beams and planks. It carries hay or straw, as baled in the field, to the barns or storehouses. It also carries

ry the loads so far in the same time, if at all

June 1, 1911

whether the distance be five miles or 50. Keeping it within a horse's lim-itations, say a round trip of 20 miles, with time to unload, the truck will do in three hours what will employ two two teams for seven hours. This is all the horses can do that day while the truck can remeat the inverse the truck can repeat the journey two or three times if necessary and suffer no hardship. It would take from eight to twelve horses to equal the performance of the truck, but it would take two. four or six men to drive the horses.

Small Tools on the Farm

If the average farmer were asked "How much money have you invested in the small tools on this farm?" it is probable that after a moment, durng which he would have a mental pic ture of an axe, a hand-saw, a grid-stone and rather a confused idea that there was a lot of stuff of one kind and another somewhere about the farm, he would reply that from \$25 to \$59 would cover the cost.

300 would cover the cost. A recent investigation conducted by the Ohio Experiment Station in co-operation with the U. S. Department of Agriculture, discloses that this is far short of the mark. In order to ar-rive at some conclusions in regard to the matter, careful inventories were taken on 33 Ohio farms, and in every instance the total amount was man times what the owner had "guessed. was many A SERIOUS LOSS

The fact that these small tools are bought one at a time when needed, and are not cared for systematically, leads to a very erroneous idea of their value. Summarizing the inventories of these 33 farms, it is estimated that to completely equip a general farm of 160 acres in Ohio with small tools will probably cost from \$200 to \$300, or in excess of the farmers' "guess" by more than 500 per cent. An error of judgment of this amount, particularly when the error is against the farm, is serious enough to challenge our attention. eads to a very erroneous idea of their attention.

Even on farms where inventories are habitually taken, these tools of minor equipment are usually includ-ed as "other small tools" and given a guessed at value, somewhat after the stereotyped expression appearing on sale bills, "other articles too num-erous to mention."

erous to mention." Farm requirements differ very vreatly, the highly specialized farm not needing nearly so many tools as the general farm. The necessity of a fairly complete outfit is apparent if the farmer would avoid expensive trips to town or to the neighbors to meet some immediate need, thereby stopping teams and laborers until the repair is affected. The advantage of some systematic arrangement is also repair is affected. The advantage of some systematic arrangement is also apparent, in order that the exact tool may be at hand when wanted, and thus avoid loss and delay by reason of mislaid, borrowed, stolen or lost tools.

SOME DIFFERENCES

Some of these tools can be charged to special farm enterprises, as to the horses, the dairy, corn, hay, grain, and so forth, but by far the great ma-jority constitute an overhead charge jority constitute an overnead charge against the farm. The connection between an auger bit handle and a bushel of wheat may not be at once apparent to the miller, but it requires the auger bit handle to turn the bit. beams and planks. It carries hay or straw, as baled in the field, to the barns or storehouses. It also carries stones to the crusher. "Not a day has been lost for repairs and not one cent has been paid out and that brought the water that hauled the grain to the machine and not one cent has been paid out and that brought the wheat to the for this purpose." said Mr. Minton. "The expense of operating the truck yield a profit it must help pay for is about equal to the cost of maintain-ting two good teams with oats at 60c; that houles on any well managed fam. But no four pairs of hores could carr. The item is small but it is a part of that is, oats wersus gasoline and oil. if at all. ists on every farm and which gos to "The auto truck takes three to four help make up the difference betweet tons as built necessitates and proceeds what the farmer gets and what some up hill and down at 10 miles an hour, people think he gets

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Vol. XXX.

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Prof. John

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RURAL HOME

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Vol. XXX.

FOR WEEK ENDING JUNE 1, 1911.

ago had not a good word to say of the automobile,

No. 22

COMMENT ON THE MORE RECENT FARM LABOR-SAVING MACHINERY

The Progressive Spirit of the Times is Animating Manufacturers in Devising Machines to Solve the Problems Caused by Economic Conditions in Farm Life-Some of the New Machines - Comments and Illustrations.



power for actuating agricultural machinery appears to be developing rapidly and it will probably be only a short time before electricallypropelled implements and machinery are utilized for farm purposes. The electric motors which have proved unmistakeably successful for manufacturing and industrial services are now being used for farm operations.

HE use of electric

Prof. John Evans

This phase in the development of agricultural machinery has far greater significance than we at present are disposed to realize. It means doing away with much drudgery; saving of much unnecessary human and animal labor; will eventually reduce working expenses; provide mechanical means for carrying on all farm operations independent of labor influences. Besides affording opportunities for exercising mental rather than physical strength, it will enable the farmer to perform those social functions which add so much to the pleasure of living in the country.

INDICATIONS OF PROGRESS

Interesting indications of the progress which is being made in agricultural machinery may be appropriately expressed in the words "still achieving, still pursuing," for improvements and developments which cannot fail to be indus-

trially useful and valuable, are effected in almost every branch of farm work. The progressive spirit animating the manufacturers of farm implements and machinery is evident by the manner in which they are endeavoring to meet the demands arising from economic conditions affecting farm life. These conditions are being tackled with growing persistence and success by implement makers at home and abroad.

A NEW INTEREST IN MOTOR MACHINES

Interest in mechanicallypropelled machines for every kind of farm operations is distinctly gaining ground. Farmers who a little while have now come to realize that the modern auto car saves time and money for them, Lesides being capable of being put to use in various ways upon the farm. It is no longer regarded as a luxury, but a necessity, and consequently all who can possibly afford it are investing in machines for the immense economy which mechanical, as compared with manual and animal, labor is able to effect is to-day one of the world's greatest blessings. SELF-PROPELLED TILLAGE IMPLEMENTS

Apparently the reasons for the small amount of attention that has been given to self-propelled tillage implements is probably due to the prevailing uncertainty regarding the comparative



Hauling Live Stock to Market

advantages of making implements self-actuating or of attaching them to a motor. Much may be said for and against these two methods of work ing cultivating mechanism; there is, however, a wide scope for self-actuating cultivating machines on large farms.

The latest novelty along this line is the automobile hoe; an illustration on page 4 shows the implement at work. The propelling mechanism consists of a two-cylinder engine fitted with a carburettor for employing gasoline or other liquid fuels

A VERY USEFUL FARM MOTOR

The sensible little machine-the small motor, three illustrations of which appear on page 4 and 5-is a veritable little multum in parvo. It can be used for so many purposes, and is sold at the price of a useful horse. Power for power it costs little more than a stationary oil engine. while its earning capacity is many times greater. It will drive all kinds of light machinery by belts, such as grinders, circular saw, cream separator, churn, etc. It will carry loads and haul all kinds of light implements and moving to its work it saves the trouble and expense of fetching a horse to do it, as is the case with a portable engine. It may be sent five or 10 miles to do a day's work. It is made in sizes of from 3 to 4 h.p. and 6 to 8 h.p., and is fitted with four speeds-two to six miles an hour.

MACHINERY MAY SOLVE GREAT PROBLEM

The keen desire of farmers to secure machines and machinery for all kinds of farm work affords one an idea of the great extent to which machinery is taking the place of manual labor in agricultural operations to-day. It is a good sign that there is such interest amongst our farmers, and so far as economic conditions are concerned, machinery affords the only means to solve the present problem of scarcity of farm help. In spite of the scarcity of help the same amount of work may be done and it be accomplished more quickly and economically by modern implements and machinery than would be at all possible under the old conditions and management. Under the new conditions and circumstances it may be more possible to retain the bright and intelligent young men on the soil, and so prevent the depleting of the rural districts and thus make for intelligent and progressive agriculture.

The Hired Boy .- There is the making of a ood man in the hired boy on the farm, says the 'Farm Journal," but he can be irretrievably

spoiled in the making if too much is put upon him; if his shoulders are loaded with blame for everything that goes wrong indoors and out; if everybody feels privileged to give him orders, and if he is regarded as a mere machine without muscles to tire, sensibilities to wound, intellect to stimulate, or a soul to inspire with longings for better things. Those into whose hands are committed these youths ordained to eat their bread in the sweat of their face, have a responsibility above that of merely providing food, shelter, and clothing. An employer may be harboring an angel unawares.



Sawing Wood with an Automoble-A New Use For The "Devil" Wagon

Prof. John Evans, Mechanical Dept., O.A.C., Guelph.

Economy That is Not Economy

E. F. Eaton, Colchester Co., N.S. It is not always economy to use the old mower, as long as it will "cut" grass, or the old binder as long as it will "bind" grain; to do so sometimes is a waste of money.

A friend of mine, a manufacturer, recently informed me that he was never able to wear out his machinery; in fact, that most of his machinery was sold or discarded when it was almost as good as new so far as doing the work for which it was devised might be concerned. This man was engaged in manufacturing boots and shoes. In order to successfully compete with other manufacturers in the same line he had to keep his plant thoroughly up-to-date. Old-fashioned machinery would not make as good shoes or make them as cheaply as would more up-to-date equipment. He had to keep abreast of the times. When I visited his factory I found that efficiency was the watchword right through. A man or a machine that would not make a profit for his employer was not retained.

THE FARMER IS A MANUFACTURER

We farmers cannot carry this principle of discarding old machines and getting new so far as can the manufacturer. The relative value of our output does not warrant it. We often do carry our policy of holding on to old machinery, however, too far. One of my neighbors, for instance, insists that he cannot afford to get a new mower, although we all know that he has money in the bank. He still uses the old mower although he losse sach year pretty nearly half the value of a new one in the hay that the old one does not cut. He is everlastingly losing time taking it to the blacksmith shop, and it is a cold day when his horses are not warm when attached to that old mower.

It is hard for us to get away from the single furrow plow, the narrow drag, and the one-horse one-row cultivator, when we should have faster working implements. It looks like a large outlay as well as a waste to lay aside our old narrowworking machinery and invest in a two-furrow plow or a three-horse drag, even if they are money-makers. We must get above this feeling, or we will get out of the race.

A FAST WORKING PLOW

A young fellow living a couple of miles down the road from me a couple of years ago invested in a two-furrow sulky plow. He tells me that formerly by "keeping moving" he could plow two acres in a day with the single-furrow plow and two horses. Now he has no trouble in plowing four and a half acres with three horses. He saves the time of a man, the time of a horse, and gets more work done than he would with two single-furrow plows. In explaining why he could do more than twice as much with the twofurrow plow, he said that in addition to doing twice as much, while plowing; much less time was lost turning round at the ends. He esti-

mated that in his 10 d a y a' plowing he asavel \$15 in the time of a man alone. It seems a r i di \circ u lous thing, but it is a fact that most of his neighbors are still elinging to their old single-furrow plows, although they fully realize that it is a losing proposition.

I believe in giving farm machinery the very best of care and making it last as long as possible, but to cling to out-of-date machines is poor economy—a kind of saving the pennies and losing the dollars policy.

How to Get Rid of Woodchucks

There is no need ior one to suffer the nuisance and the annually increasing loss from woodchucks, or ground hogs. These peets may be completely exterminated from a farm at very little cost by means of crude bi-sulphide of carbon, procurable from any druggist.

Armed with the carbon bi-sulphide, in a



A Single Furrow Motor Plow

The plowing capacity of this plow attachment to the 6-8 h.p. motor is about two acres per day with fuel consumption of 2% gallons per acre. Note on page 5 two other illustrations of this motor.

tightly stoppered bottle as you procured it from the druggist, take along a wad of cotton-batting, a bundle of rags or other suitable absorbent material, a small dish or pail, a spade or shovel, and a good sized pail, and in the short time of half a day or so you will be able to most effectually settle the woodchuck question.

At each burrow plug all of the holes but one and tramp them solid. Fill the large pail with earth and have it ready baside the remaining hole. Take a wad, about the size of your fist, of your absorbent material, put it in the small pail or dish, and soak it with the carbon bisulphide; then poke it down the hole as far as possible and plug the hole immediately and tightly with the soil you have ready. Any animal life in the woodchuck burrow thus treated will perish a once.

There is possibly not the same sport in this method of destroying woodchucks as there is in some other means i.e., that of shooting them. It is certain, however, requires but little time, and the woodchuck thus killed is Luried.

Since the vapor of cerbon bi-sulphide is exceedingly inflammalle, caution must be exercised in handling it, and it must be kept away from fire of any kind.



Something Novel in Cultivators. May we not Expect soon to seelit Commonplace

June 1, 1911

Remarks on Purchasing Machinery

More than ever before economic conditions have made it necessary that we farmers be an our guard in keeping down the capital invested on our farms. A danger point hinges on the matter of Luying farm implements.

The implements on a farm afford one a prety fair index of the business capacity of their owne. There are many machines which might be found on any farm, but there are several, and thus generally include the most expensive and the last expensive, which every farmer ought to us and may make of them most profitable investments.

In the category of the least expensive we might mention the hand wheel hoe, an implement which costs a trifle only, and is productive of better crops, and splendid results in labor saving, in the root field and in the garden. A suitabl grinding stone, well hung and geared so as to do rapid and efficient work, is also a prime neces sity; yet on innumerable farms where the proprietors, in most other ways are progressive they continue to get along with an old style grind stone on a dilapidated frame. These old-time grinders call for a much greater expenditure d time and labor than would be necessary with an improved grinder geared so as to render rapid and efficient service. This may seem like a small matter, too small to mention here, but when we consider the important place it fills in connection with both tilling and harvesting machinery, we ought not to be satisfied with anything but the best and most efficient means of sharpening tools.

Of the most expensive machines that so many will do with_at, possibly the manure spreader ranks first. Various labor saving, rapid-working implements, which are designed to take the placof old equipment, might also be enumerated here. We shall mention only one, that of a concultivator such as Mr. Grisdale spoke of at Perth last winter. The two-row cultivator cuts time square in two. Why should not every congrower invest in such an implement?

Many implements of known and undisputel value, but out of question for the 100 acre farm may be purchased to advantage cooperatively. Neighbors of the right kind, who set themselve to work harmoniously together, may have the advantage of all the latest and best machinery through the cooperative principle of purchase ad use, and they may thus reap the benchis from the same without over capitalizing in the mchinery departments of their individual farms.

We all must have these later, efficient, laborsaving machines, else we cannot reap to the ful the possible returns. We must cast aside, as all business men must do, out-of-date machinery for the more efficient; in order to save ourselves as the cost and make profitable returns possible we smaller farmers must more and more purchase and us_these machines cooperatively.

A man in one of our Cow Testing Associations was aaked to pick out his five best cors. This he did. When he came to take record, however, he found that he had eight cors in his hord that made more milk and fat than the best of the five cows he had selected...J. F Singleton, Kingston, Ont.

The seed of Mammoth Red Clover is produced from the first ercp and no aftergrowth is looked for, as in the case of Common Red Clove. Alsike seed, too, is produced from first gronth-T. G. Raynor. Seed Branch, Ottawa.

The cow that is fed well when she is dry is the one that makes the big record when als freshens. Many of the cows that hold our largest records are fed especially for that text for a whole year previously.—H. Glendinning, Ontario Co., Ont.

June 1, 1911

Experiences wi

It costs me ab a day) to pump t both of these bei a 3 h.p. gasoline much in favor o power. It is the has milk to sepa saw, roots to pulj about the farm. My engine has pendable. It has now and it has gi sion when we "to der. The engine sionally especially grade of gasoline wale to form on dale is not notice line is used.

The size of en depend wholly up I? he is located chop his own graengine. But if h to separate milk, wood and so forth as mine, and it w The main work

the milk and to p operations are pee in summer, when will pump more winter time there pumped when the utes extra run is for the stock.

My engine is s barn in a milk wall with outside from the engine had in connection From this main *u* conter-shaft, fr separator. With wheel of the engin the cream separat The gasoline for the barn, the tar



A Useful Many uses could b on any 100_acre far particulars of this

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Experiences with Gasoline Farm Power H. R. Nizon, Brant Co., Ont.

It costs me about three cents a run (6 cents a day) to pump the water and separate the milk, both of these being done at the same time with a 3 h.p. gasoline engine. One cannot say too much in favor of a gasoline engine for farm power. It is the proper thing for anyone who has milk to separate, water to pump, wood to saw, rots to pulp, and other similar work to do about the farm.

My engine has proved itself to be always dependable. It has been run for over two years now and it has given no trouble save on one occasion when we "took it down" to clean the cylinder. The engine requires to be taken down occasionally especially if one is not careful about the grade of gazoline used. Cheap gasoline causes a scale to form on the inside of the cylinder. This shale is not noticeable when a good grade of gasoline is used.

The size of engine a farmer should buy will depend wholly upon the work he has for it to do. If he is located far from a mill and wants to chop his own grain, he had better get a 6 h.p. esgine. But if he only wants it for light work, to separate milk, pump watter, pulp roots, saw wood and so forth, then get a 8 h.p. engine such as mine, and it will do all the work required.

The main work for my engine is to separate the milk and to pump the water. Both of these operations are performed at the same time, and in summer, when we are getting lots of milk it will pump more water than we need. In the winter time there will not be quite enough water pumped when the milk is separated. Five minutes extra run is required to pump enough water for the stock.

My engine is set right in the basement of the barn in a milk room built against an outside wall with outside window space. The drive telt from the engine runs a horizontal shaft that I had in connection with my old power wind-mill. From this main shaft the speed is reduced to a conter-shaft, from which I run the cream separator. With a friction clutch on the drive wheel of the engine we find this means of driving the cream separator to be most satisfactory.

The gasoline for our engine is kept outside of the barn, the tank being located in the ground



A Usstul Motor for Farm Work

Many uses could be found for a motor like this one on any 100_acre farm. See article on page 3 for fuller particulars of this machine.

30 feet away. While it is certainly safe to have the tank with the gasoline away from the hare, and in that position after once installed it is no extra bother, it is not necessary to install the engine in this manner. Several of my meighbors have their engines right in the barn with the gasoline tank in the base of the engine. The insurance companies do not object to this, providing the tank is filled in the daytime when there is no artificial light about which might exclude the gasoline.



The Favorite, General-Purpose Farm Power

Mr. H. R. Nixon, who may be seen in the dim background of this illustration, tells in the adjoining article what he thinks of this 3 h.p. gasoline engine, shown here as it is at work on his farm.—Photo by an editor of Farm and Dairy.

Comparisons-Hand vs. Power Sprayers W. B. Wolverton, Lincoln Co., Ont.

Power sprayers for orchard work are an allimportant consideration to the up-to-date fruit grower. The old saying, 'If a thing is worth doing at all, it is worth doing well,' applies especially to the fruit grower, who must do most thorough spraying if he wishes to get the best results.

A power sprayer, under a pressure of 150 pounds, will spray at least 1,000 gallons of solution a day, and do it thoroughly, at a cost of 35c. a day for gasoline and the wages of two men only, thereby minimizing the expense of spraying to a very small fraction of a cent a gallon.

On the other hand, the less up-to-date fruit grower, without a power sprayer, emplose two men to do his spraying with his hand pump, who if they get out 250 gallons a day have done exceedingly well for man power. The fruit grower with the hand pump, it will therefore Le seen, employs the same amount of labor as the power outfit and practically at the same expense, and only sprays one quarter of the material, and in many cases the work with the hand power is not thoroughly done. In comparison after allowing the interest on the investment for the power sprayer, one will readily see it is by far the cheaper and deeidedly the more effective.

At one time we looked upon spraying as a great nuisance. However, since we were forced by the various fungous and insect pents to spray, if we would grow marketable fruit, and we got a full equipment of power spraying machinery, we spray just as we do other orchard or farm work, and do not think anything but favorably of the work of spraying.

Alfalfa inoculation.—The good effect of inoculating the soil for alfalfa culture has been shown in connection with the State and County Farm demonstration work in Wisconsin. At Vircoua, on an alfalfa field of 20 acres, half of which was inoculated, the inoculated part yielded at the third cutting 1% tons per acre against three-quarkers of a ton where uninoculated.

Money for Underdraining Work*

When underdrained land produces, on the average, \$20 more an acre annually than nonunderdrained land, as statistics show, as well as being in a better condition to work and can be worked from two to six weeks earlier in spring, why is it that there are still in the neighborhood of five million acres in Ontario that are urgently in need of draining?

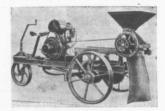
The chief reason is lack of money. Farmers tell me that they cannot produce the initial outlay necessary for drainage work. To meet this need in drainage work I would advise Farm and Dairy readers that the Legislature of Ontario has made special provision—there is a large sum of money, known as the Consolidated Revenue Fund, at a tarmer's disposal, which he can get in one or more hundreds of dollars for a term of 20 years. Each \$100 is to be paid back in sums of \$7.36 a year.

It costs on the average \$25 an acre to underdrain. Therefore, \$100 would drain four acres. This land, once it is drained, will produce \$80 more per year than before it was drained. Of this increase the farmer would may back \$7.36 per year and have left \$72.64. Surely this is a good enough investment! In fact, it sounds too good to be true, and farmers seem as much afraid of it as they are of the proverbial gold brick.

To get this money for your underdrainage work, estimate the entire cost and make application to the township council for it. If the council approve of the loan they will pass the necessary by-law, if such has not already been passed, and they will issue debentures of the municipality to the extent of 75 per cent. of the cost of draining. The Government buys these debentures with the Consolidated Revenue Fund, and the farmer, you, may receive the money.

The money thus borrowed you are to pay back in 20 instalments—\$7.36 a year for each \$100borrowed—or one may discharge at any time his entire indebtedness, plus interest at four per cent, less amount already paid. The instalments of \$7.36 are to be paid at the same time as taxes and the farmer, you, need never feel the difference.

Farmers in Haldimand township, Northumberland Co., Ont., and in many other places are securing money for underdrainage in the way I



The Same Motor at Other Work

This illustration shows the motor as it may be used for grinding; the body has been removed and a grinding mill attached to the frame.

have explained. Why the opportunity is not more generally taken advantage of elsewhere is a mystery to me.—H. C. N.

When storing machines and tools they should be thoroughly cleaned of all cirt and rust, and the working metal parts well oiled. A coat of paint on the woodwork and metal braces will help greatly to preserve their condition.—The cost is a mere nothing. ~L. C. Smith, Peel Co., Ont.

*This article is the first of a special series that has been arranged for by Farm and Dairy to be written by Mr. H. C. Nixon, an expert on under drainage, who will from time to time instruct our readers on things worth knowing about underdrain, ing-that great money-making means of farm improvement.

A New Implement for Deep Plowing

Prof. John Evans, O.A.C., Guelph, Ont. The proper preparation of the seed bed is not an easy task. In accomplishing it one must move and disintegrate large quantities of earth. No tool has hitherto been invented that will do the work thoroughly, but the machine as pictured on



Getting Away Down Deep

this page goes a long way to realize the desired consummation.

Experiments have demonstrated Leyond a doubt that, with but few exceptions, the best seed beds are made by plowing to a much greater depth than has been the common practice. Work of the character required is beyond the capacity of the ordinary plow. It requires an implement that will penetrate the earth and turn it to a much greater depth.

WILL PLOW 16 INCHES DEEP

The machine referred to is especially adapted for tilling to a depth of from eight inches to 16 inches. It consists of a massive frame, composed of heavy castings, structural steel and forgings. This frame is mounted on three wheels running on chilled journals, in large chilled bearings. The discs are 24 inches across and have a special bevelled edge, which adds greatly to its strength; they are placed with respect to each other, so that the front cue is higher than and partly to the landside of the rear one.

ABOUT DEEP CULTIVATION

In support of deep cultivation I would have Farm and Dairy readers consider the following :

"No principle in agriculture has been more thoroughly demonstrated than the value of a deep, thoroughly pulverized seed bed. The Romans plowed on an average nine inches deep -always three times for a crop, and in stiff lands nine times. They did not call three inches 'plowing,' it was only 'scarifying.'

"The Flemish farmers were the first to follow the better lines of agriculture after the dark ages. They devoted their efforts to three main points: (1) The frequent and deep pulverization of the soil, (2) the accumulation of manure, and (3) the destruction of weeds.

"A deeper and more thoroughly pulverized seed bed was the foundation upon which England built an improved agriculture, and this principle has been generally accepted there for more than 160 years, until the average production has increased nearly fivefold."

ADVANTACES OF DEEP SEED BED

"Concretely stated, a deep, thoroughly pulverized seed bed filled with humus has the following advantages :

(1) It provides more tood, because it increases chemical action and multiplies bacterial life in a larger Lody of soil.

(2) It stores more moisture rapidly on account

of its cooler lower strata and the presence of more humus.

(3) It increases the number of roots that a plant will throw out.

(4) It allows plants to root deeper and find permanent moisture.

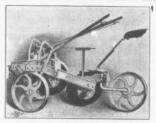
(5) It largely obviates the necessity of terracing, because it holds so much water in suspension that heavy rainfalls will go to the bottom and be held by the drier earth above until they can be absorbed by the subsoil.

(6) Humus enables the soil to store more moisture, increases its temperature, makes it more porous, furnishes plant food, stimulates chemical action and fosters bacterial life."

A Factor in Root Culture

Most Farm and Dairy readers, we reckon, are like our editors in one particular at least, that they would rather have a horse to pull a wheel. hoe or cultivator than to push a hand wheel hoe. There is, however, a large and important place for the hand wheel hoe on every farm where an acre or more of roots are grown and where there is a kitchen garden.

With an ordinary horse cultivator or scuffler fitted as well as is possible to devise and set the cultivator teeth, it is not possible to get closer to the row of roots than about three inches on either side of the row. This means leaving a strip at least six inches wide, and often it is 10 inches or more in width which must be hoed by hand. With the hand wheel hoe it is possible to get within an inch of the row on either side and to cultivate the very day after the rows can be discerned. And because of this fact the hand



Side View of Deep Tilling Plow

wheel hoe is an important factor in the successful culture of roots.

The young plants of mangels, sugar beets, or turnips are exceedingly tender, and as ordinarily happens they are handicapped in getting to the light of day and making an early growth on account of a crust which has formed over the surface of the soil. The hand wheel hoe, made use of as soon as it is possible to see the rows, breaks this crust, allows the air to get into the soil, conserves the moisture, and aids greatly in forcing the growth of the young plants.

It may seem to Farm and Dairy readers, as we confess it did to us at one time, that the hand wheel hoe is an impracticable proposition for a large acreage of roots. When one considers the matter, however, it will be found that the use of the hoe becomes more and more necessary the larger the area to be cultivated. While discussing this matter in Ottawa recently with Mr. John Fixter, of the Macdonald College Farm, he said that at the College they grew from 15 to 18 or 20 acres of roots each year, and all of this area was hand wheel hoed.

Mr. Fixter believes in the hand wheel hoe as teing one of the secrets of successful root culture-this together with sowing plenty of seed. The hand wheel hoe costs only about \$6, and one man working with one of these implements will do the work of six men hoeing in the usual way.

June 1, 1011

Boys and Manure Spreaders N. C. Campbell, Brant Co., Ont.

It cannot be said of our farm boys that they are afraid of hard work. They object, hovever, to doing that hardest kind of hard hand work, spreading manure, when it can be done even with pleasure by a manure spreader, which machine, although costly, has been demonstrated to be a paying investment on any well stocked 100. acro farm.

I can imagine a lad of from 16 to 20 years standing on the shady side of an old strag stack, four feet high and well rotted, on a her day putting on his load. We will watch him as he drives it to the field and then see him toiling scattering the manure on a strip from 30 to 40 feet wide, his clothes wringing wet, his brain weary, patiently waiting for the sun to set that he may go home to rest. This picture, thanks to the manure spreader, is one of the past on many farms to-day.

If the picture may be seen still on your farm, just take into your imagination a picture on a neighboring farm where a lad is loading his load on a spreader; follow him to the field, see him set his machine in gear, chirp to his team, then begin to whistle "What's the matter with father? He's all right !" It is reasonable to guess that the boys will stay at home on that farm all right.

Manure spreaders have come to stay. They are a great labor saving device and they are a most profitable machine. Distributed with a spreader, manure will go from three to four times as far as if spread as ordinarily by hand, and it will do more good since it is pulverized and spread evenly by the spreader thus enabling the roots of the plants to get the full value of the manure

The advantages of the manure spreader are well known to progressive readers of Farm and Dairy. We have used one on our farm for some years now, and while it took us quite a while to decide-before we bought it-that it would be a good and paying investment, we have had no doubts on that point since we had it spread the first few loads. We look upon our manure spreader as an indispensable part of our farm equipment.

One first principle in handling any live stock is to be master of the situation. One cannot get full value from a horse until it is completely under control. It is the same with bees. To be a successful bee-keeper one must be a beemaster; not in any cruel sense any more than with a horse. To manage a horse one must know a horse from A to Z. To manage bees cae must study their habits and disposition, and learn as far as possible why and how they do things. This takes time, but it is well spent .-Morley Pettit, Ontario Provincial Apiarist.



Not the Most Satisfactory way to Handle Manure

June 1, 1911

Ditch

W. Emn The main que not "Does it pa get the drains by hand or by the machine at the relative me digging is slow



The Tractiv The operator ma ressheads in from adjusts the machin

age farmer too diggers are hard During the su owned by Mr. W

was brought inte pices of the Dist Agriculture, and operated in the good chance to o it was an unqui the opinion of al averaged about inches wide and are fully as low professional digg good ground, ave So satisfied was machine that an back during the ADVANT

Ditches are du than can be don ging is done by l in smoothing. I plete at one oper to upwards of fo perfect grade re land. This last cross-head stakes adjusted to this

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Ditching By Machinery

W. Emmerson, Lanark Co., Ont. The main question in underdrainage to-day is not "Does it pay?" but rather "How are we to get the drains dug?" It must be done either by hand or by machine. To one who has seen the machine at work there is no comparison as to the relative merits of the two methods. Handdigging is slow and laborious and for the aver-



The Traction Ditcher off to a Good Start

The operator may be seen sighting ahead. Note the cressheads in front by means of which the operator adjusts the machine to dig the ditch true to the grade

age farmer too wasteful of time. Professional duggers are hardly to be had at any price.

During the summer of 1910 a traction ditcher owned by Mr. W. J. Tuck of Weirstead, Quebec, was brought into Lanark county under the auspices of the District Office of the Department of Agriculture, and during the six weeks that it operated in the neighborhod of Perth I had a good chance to observe its work. In saying that it was an unqualified success I am but quoting the opinion of all who saw it. Mr. Tuck's prices averaged about 22 cents a rod for drains 12 inches wide and three feet deep. These prices are fully as low as can be obtained from any professional digger. As for speed, he could, in good ground, average from 75 to 100 rods a day. So satisfied was everybody with the work of this machine that an effort is being made to have it back during the coming summer.

ADVANTAGES OF THE DITCHER

Ditches are dug very much better by machine than can be done by hand unless the hand-digging is done by line and a great deal of care used in smoothing. The machine digs the ditch complete at one operation, digging from a few inches to upwards of four feet in depth and carries a perfect grade regardless of the surface of the land. This last point is accomplished by using cross-head stakes and keeping the digging wheel adjusted to this line.

The machine may be operated on any land that has sufficient firmness to carry the machine and maintain traction power, and will handle anything from a wet subsoil to the hardest possible



The Ditch Can be Dug Other Than Straight Note the short turn required of the machine to come through the gap shown in the foreground. The s marks the start of the ditch.

FARM AND DAIRY

condition that clay attains. In stony land, unless it is very hard and dry, rocks ranging in size up to that of a man's head may be removed without damage to the machine. In the case of a large rock the digging wheel may be easily lifted to commence work again on the other side.

The machine method is quicker; a machine will dig as much in half an hour as a man will dig in a day. The machine work is cheaper even when we include the time given to helping the man at the machine. It is generally more accurate in the grade.

WHAT THE TARIFF DOES

It seems clear that the future of underdrainage rests with the traction ditcher. There is Lut one company engaged extensively in their manufacture, and that is the Buckeye Traction Ditcher Co. of Ohio, U.S.A. They quote ditchers similar to those at present used in Ontario at from \$1,200 to \$1,400, but by the time freight and duty have been paid they cost from \$1,800 to \$2200 laid down here. At this price it is likely that their importation will be slow and for the sake of the advancement of underdrainage this is to be regretted. At the present time there is a.1 agitation to have the duty removed, and if this were accomplished the interests of the farmers of the province would be advanced thereby.

Milking Machines as Investments

In the important dairy district around Montreal, only three milking machines are installed. This fact is the more surprising as these machines are run to the entire satisfaction of their owners. The other day I learned, however, that many farmers would like to try the milking machine, but are afraid of the high initial expenses. In order to give these farmers a clear understanding of what the installation of a milking machine outfit will mean to them from a financial standpoint we give here the cost of a milking machine outfit for a herd of 30 cows, which is a good sized herd for machine-milking. We would not encourage the use of the milking machine by small holders.

The initial outlay will be:

- 3	milkers								 \$225
1	vacuum	pump							85
	vacuum								
2	5-inch ga	uges							6
15	vacuum stanchion 5-inch ga	cock	8			 			14

\$343

To this amount we must add the cost of piping and installation, probably necessitating the outlay of another 25 to 50 dollars. And last, but not least, the farmer needs an engine. However, we do not like to charge the engine completely to the milking machine account, as it can be used to advantage for other farm work. A gasoline engine of two horse-power will work six milkers and cost \$105. So that the total cash outlay will amount to \$500. This is certainly a considerable sum of money, but the machine is worth it, and is earning, so to say, its own cost mer. Here is a good example of the neces-

a farmer to keep a business account, in he charges or credits his more valuable material, and in that way is able to figure out his real profit or loss on each special unit in his enterprise. The milking machine gives us a good opportunity to figure this out in detail.

What is the yearly expenditure involved in the use of the milking machine?

YEARLY EXPENDITURE ON MACHINE

In the first place we have the interest charges on that outlay of \$500. A farmer can make easily six per cent. on his money, and thus the interest charged to the milking machine will be \$30. Then we must make a charge for the depreciation in (Continued on page 13.)

(7) 555

Tile Ditching by Means of Machinery

A ditching machine that worked in the vicinity of Perth. Lanark Co., Ont., last spring gave tile draining a great boost in that locality. The ditcher, a privately owned machine, was working under the direction of the local branch office of the Ontario Department of Agriculture, in charge of Mr. R. S. Hamer.



Through the Gap-A Perfect Job

Introduct use to be a function of the functio Ont.

While at Perth last fall one of the editors of Farm and Dairy secured the photos of the ditcher reproduced on this page and some facts in regard to the efficiency of this ditching machine.

One of the great difficulties standing in the way of the more general and rapid installation of tile drains is the fact that a great many farmers do not know how to drain. They do not know how to dig their drains to a grade or how to lay the tile and they have not the help. The machine ditcher solves to a great extent these problems.

Most of the draining that was done near Perth last summer was gotten in between harvest and silo filling time. At every place that this machine ditcher worked there would be from 50 to 100 people in to see the machine working. These men all secured much information in regard to draining, which, it is anticipated, will bear fruit many fold within the early future.

On account of the peculiar and great need of underdraining in many parts of Lanark county, the new interest in tile drains caused by the ditcher that worked there last summer is bound to be far reaching and of great ultimate advantage to the agriculture of the county.

The efficiency of this machine is adequately described by the four photos reproduced on this page, and the information in small type therewith



The Finished Ditch-Ready for the Tile

The machine that accomplished this work, and is shown in the other illustrations, is owned by A. J. Tuck, and has been operated in Ontario for eight years-All photos by E. S. Hamer, District Represen-tative for Lamark County,

556 (8)

walls to bu extra costs

repair Heavy

"Do you know that a wooden roof equipped with lightning rods costs more than a Metallic roof."

THE PHILOSOPHER OF METAL TOWN.



FARM AND DAIRY

work; but, for the farmer who wants a power only occasionally and wants it quick and with small attention, the gas engine, which consumes fuel only when performing work, is far superior When performing work, is far superior and less expensive than the steam en-gine plant, which consumes consider-able fuel in getting ready for work, and which also requires the constant attention of the operator. The gasoline engine to date is the most satisfactory power which the farmer can use. This engine is used

most satisfactory power which the farmer can use. This engine is used as a stationary, a portable and a trac-tion power. The many lines of agri-cultural work to be done with gaso-line engines are limited only by the

ability of the farm manager. I would advise the farmer to take a careful survey of what his conditions are, says F. R. Crane of the Illinois are, says F. R. Crane of the unchase College of Agriculture, and purchase

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CHATHAM, ONT

12.1.7.

ATTANE:

This New Portable, Pitless

Wagon and Stock Scale is

Simpler, Stronger, Cheaper and

far more durable than old-style scales. Absolutely accurate-designed and constructed by an expert, every scale scaled and inspected by Government Inspector before shipping. Complete in itself-quickly set upon moved anywhere. No holes to dir rests calified and the state of the state state of the state o

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Farm Power that Has No Equal Considering the actual fuel used in the combustion engine while a work, there is more expense incurred in running a gasoline engine that there would be in a starm engine of the same horse power doing the same until there is a certainty that someuntil there is the so-Remember, that much of the so-Remember, that is troubles arise

thing is wrong. Remember, that much of the so-called gasoline engine troubles arise from the too free use of the wrench in making some supposedly needed adjustments. We believe that so far and successfully as understanding and successfully operating the gasoline engine is concerned, a person of average ability need have no fears, and there is nothing more sure than that, under pre-sent existing conditions the gasoline engine as a farm power has no equal.

Stacking Hay in Alberta

There are in Alberta thousands of acres of hay land, so easy methods and quick devices are necessary to facilitate the harvesting of the crop.

facilitate the harvesting of the crop. The device shown in the illustra-tion is very simple and it is much used for stacking hay in Alberta. The teams drag the sweep down a wind-row and bring the bundle of hay to the stack on to the carrier—the appar-atus at the bottom of the slide in the view.



A Labor Saving Hay Stacking Outfit in Alberta See article for particulars,-Photo by A. E. Telford.

the top ends of the slide and around the carrier. The horses are unbitch ed from the sweep and a team put on each end of the rope on each side of the stack. As soon as they start the carrier rises to a vertical position smaller area. The differen turns will frequently pay spreader in a single season.

Now is the Time to Repair the Roof

The seeding is done—you have a few weeks of spare time until the hay is ready to cut, after which you will be husy with the harresting and threshing until the fall. This is an excellent opportunity to repair the roofs of your barns, while the weather is warm and fine—but, stop a minute, why be under this expense every year, not to mention the labor-for a wooden roof is continually in need of repair? Why not replace with a durable fireproof roof of

"Eastlake" Metallic Shingles

They never need repairs - can be cheaply and quickly laid by yourself, and will last a lifetime. Roofs laid 25 years ago with "Eastlake" Shingles are wea-therproof to-day. A roof covered with "EASTLAKE" STEEL SHINGLES is proof against lightning, wind, rain or anow. A barn noofed with "EASTLAKE" METALLIC SHINGLES and sided with our Galeonized Corrugated Iron Siding, is absolutely protected from fire from outside sources.

from outside sources.

Let us quote you on rat and mice-proof sheet metal lining for your granary, also send measurements of your barn an' let us give you complete estimates of cost of rooming or siding, or both.



June 1, 1911

T. R. James, Middlesex Co., Ont. We ought to appreciate more fully the value of manure and of proper methods of handling it. We ought to We ought to figure it as worth at least \$2 a top and we should get that amount, or many cases much more than that our of it by proper handling.

Just how manure should be hand led will depend upon conditions best method where cattle are fed in barns, sheds or lots, is to haul the manure to the fields day by day ce week by week as it is made. There is least loss in handling it in this way although this plan is not always feast ble.

In the handling of this by-product a manure spreader will pay on the av-erage farm of 100 acres or over, and where much stock is kept it will pay The device shown in the illustra on is very simple and it is much used ars stacking hay in Alberta. The handsome returns on farms of much ams drag the sweep down a wind-the visite. Most men thick the wand bring the bundle of hay to in the saving manuer spreader lie us at the hottom of the slide in the future. The rope runs through pulleys at

spreader in a single season. There is one other reason why a man should own a spreader and this is that when he has his money is vested in such an implement he will almost invariably take better care of the manure his farm produces. This here, is important them into an

latter is an important item since si many are inclined to regard the manure as a nuisance, whereas it repre-sents and should always be consider-

Separate Milk by Power Can a cream separator be run with h.p. gasoline engine and run all right low should it be arranged?-J. D. 6. tormont Co., Ont.

Your correspondent can operate h crean separator very satisfactorily with a 6 H. P. engine. We recommend the use of counter shaft, and if h wishes to reduce the speed he migh

find it necessary to have a short com ter shaft specially for his cream sep arator, but he can get a very smal pulley to attach to his line shaft, and

probably get a very satisfactory re-sult running it direct.

factory result. If other work that running the cream separator is to be done at the same time, by running direct from the pulley on its engine to a line shaft, one could then out u

short counter shaft connected with fine shaft and run the cream separate off it, with hut very little expense Coold, Shanley & Muir Co., per W.

H. Whitaker.

Any difficulty that might be tered is really only a case of figuring proper sized pulleys to give a satis-

ered an important cash asset.

each individual f out and effect a c in the cost of proc and management ery. If through bett

ment the averag chines could be i year, a tremendo effected. Mr. M. Farm Mechanics, in North Dakota in his State nearl farm machinery. of the total crop who follow grain is tied up in mac chinery does not should

Possible Prof

NEGLECT

Consider the ca is not uncommon expensive machine corner of a field used! Other bin ber are given they are hauled r and are allowed of some prot wall. Beside it i fusion are other in





Z Rolling Door. Plan of a Ve

of farm machines scrap heap at a light the agents o In all probabili readers care for t more rational man ber, however, have in which to hous Spare room on th empty mows, or o already over-crowdepended upon to ments. Any of the isfactory, cause n

June 1, 1911

ing a farm to yiel is well to encou attention to the ing. But since t ing is the differe ing price and the productio cost of this latter way a they are under i



Factors in Cost of Production

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Cooperation among farmers for the purpose of securing an equitable price or farm products, is one way of caus-ng a farm to yield more profits, and it ing a term to yield more profits, and it is well to encourage the cooperative attention to the market end of farm-ing. But since the profit from farm-ing is the difference between the selling is the dimerence between the setter statuted in size to meet the require-ing price and the cost of production, it is well to pay attention to reducing out of production. Froits made in this latter werthen the direct control of case of the binder, the average life of case of the binder, the average life of

and on occasion too often implements standing room is not available under cover. A special implement shed is next to an absolute necessity, and be sent boar absolute necessity, and be sent boar absolute necessity, and be sent boar absolute necessity, and be and convenient shed for stornutable in othing about the wires, who deserve plements. The building may be con-structed in size to meet the require ments of the amount of machinery kept

FARM AND DAIRY

About the Grindstons.—Many a hard hour's work have the boys put in, and so have the grints, too, to any nothing about the wives, who deserve special mention, at turning the grind-stone on most farms. Where one has not an engine or other power avail-able, it will be found an advantage to propel the stone from a treadle. On the opposite side from the treadle fasten a balance wheel. This will be, a great help as it causes the stone to run surer and easier. Some sort of a wheel or pulley that will serve the pur-pose of a balance wheel can be had for next to nothing at almost any junk shop. shon

(9) 557 ENCOURAGE THE BUYS a't get is at he IRON AGE Farm and Garden Tools Stocks carried at many convenient Ask for address of points in Canada. Ask incarest Canadian Agency.



Possible Profits from Many Farms are Lost in "Junk" Heaps! Like This

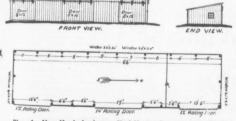
The second seco

cach individual farmer; he may start out and effect a considerable reduction inthe cost of production by better care and management of his farm machine rey. If through better care and manage ment the average life of farm ma-ther average life of life of the binder in years, its real use-form 10 days to two weeks a year, and the average life of life of the binder in years, which gives it a phold from 20 days. It is obvious that this time could be in-fine value of the crop is invested in vonsequent on neglect and misman-

NEGLECTED BINDERS

Consider the case of the binder. It is not uncommon to see one of these expensive machines stored away in the corner of a field where it was last used ! Other binders in goodly numused: Other binders in goodin tunn-ber are given more consideration; they are hauled up behind the barn and are allowed to weather it in the lee of some protecting tree or barn wall. Beside it in more or less con-fusion are other implements and pieces

Care and management and proper housing. Considering the high price of bind-ers, and the expensive, delicate and complicated mechanism of many other farm machines, now so necessary on any well equipped farm, few better in-vestments can be made on a farm than that of providing adequate shelter for the farm machines. the farm machinery.



Plan of a Very Handy Implement Shed Having Corrugated Iron Roof

of farm machinery all going to the scrap heap at a rate that must de-light the agerns of the manufacturers. In all probability, Farm and Dairy readers carte for their machinery in more rational manner. A goodly num-ber, however, have no special building, in which to house farm implements, Spare room on the barn drive floors, empty mows, or chance space in the already over-crowded drive house, is depended upon to house the imple-ing state over commendent of the habit cannot be overcome, the memts. Any of these are far from stat-isfactory, cause much inconvenience.



ation purposes. Write for particulars. Reliable agents wanted in every county.

F. W. HODSON, & CO., TORONTO, ONT. Room 100 Temple Building

Branch Office:-North Battleford, Sask. During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.

Corn Cultivation Up-to-Date*

J. H. Grisdale, Dir. Dom. Exp. Farms We have horse cultivators to-day that We have norse cultivators to day that will do two rows of corn at once. Mind you two rows and not a pretence of do-ing two rows; not merely straddling a row, and doing a little on each side of it. the old cultivator, the one that is it. the old cultivator, the one that is used in probably 75 cases out of 100, cultivates only one row at a time al-though you use two hores on it and do part of two rows. We have a culti-vator to-day which will do two com-plete rows at a time, and you can go down the field on two rows and back on another two rows. Farmers tell me they have for a long time had two they have for a long time had two horse cultivators doing these two rows at a time, but they have not; they have had two horse cultivators doing one row at a time.

A GREAT SAVING If you will stop to consider the tre-mendous advantages of having a ma-chine that will do two complete rows at a time, you will abandon your old at a time, you will abandon your old cultivator and get one of the new ma-chines. It will pay for itself in one year. I got one of these machines two years ago, in order to try it and we calculated that we saved \$50 the first year. We did not sit down and say 'f

*Extract from an address before the E. O. D. A Convention at Perth in January

SOME HISTORY

about Typewriters

TET Haderw

FARM AND DAIRY

guess we saved \$50," but we kept track of every acre that was cultivated and were able to cultivate our con when what we would have had to do with it required cultivation. With the mer-the other machine; in fact we ran one of the other machine; comparison go over a big field and with the two-with this new cultivator. It cost us \$600, so that we almost saved the cost of the machine in one year.



Much Ahead of the Old Scuffler for Cultivating Corn

A big day's work can be done and done thoroughly with a corn eultiwator like this, and without that tired feeling for the man or boy Professor Griedale, in the article adjoining, tells of a corn cultivator that beats this one by two. -Photo taken on Mr. R. W. Walker's tarm, Ontario Co., Ont.-a successful com petitor in the last dairy farms competition.

that there was a difficulty in getting a machine that would work satisfactor-ily. The difficulties have been over-come and to-day we have a machine that will do the work, and do it well.

Items of Interest

An Ottawa despatch, dated May 25th, states that Dr. J. G. Ruther-ford, Dominion Live Stock Commisal of Canada, has tendered his res-ignation to the Minister of Agriculture, and intends to go to British Columbia to reside.

A special train to be known as the "Agricultural College Special" will be run over the lines of the C. P. R. throughout Manitoba beginning May 30th, and continuing throughout the month of June. The train will be un-der the supervision of the Manitoba Agricultural College.

During the past 10 years Canada has received nearly two million immi-grants, of whom approximately 750, 000 were from Great Britain and Ire-land and 700,000 were from the United States. An immigration bulletin just issued rives the actual forume up to States. An immigration builtin just issued, gives the actual figures up to the end of the last fiscal year, March 31st, as 1,714,326 for the decade. Since then nearly 200,000 more have arrived. small, containing from 20 to 40 cores. In order to show a profit these herds must be handled in a business-like way, and an excellent opportunity for a large additional profit is afforded br the use of the milking machine. Many small herds of, say, 24 cores, even with the utmost care in handling, show very little profit. The owner is-stalls a miller outfit and is immediate-ly independent of careless hired help, and ean and does in many inspaces. divided about equally between British and American.

The executive committee of the National Dairy Show Association con-sists of Messrs. R. B. Swift, Chicago, chairman; W. W. Marsh, Waterloo, Iowa; H. E. VanNorman, State Col-lege, Pa.; J. A. Walker, Chicago; A. J. Glover, Ft. Atkinson, Wis.; F. J. Macnish, Chicago, and Wm. Hill, Buomingdale, Ind. They have select-ed Hon. A. O. Auten Jerseyville, III. as general manager, and have located the coming exposition to be held at coming exposition to be held at hicago.

The province of Alberta has now seven provincial demonstration farms in addition to the Dominion Experi-mental Farm at Lethbridge and Lamental Farm at Lethbridge and La-combe, and the new Dominon Farms established this spring at Fort Ver-million, Fort Simpson and Fort Smith. The provincial farms are located at Medicine Hat, Claresholme, Olds. Sedgewick, Vermillion, Stony Plains, and Athabaska Landing, 480 acres, and each of the others one-half section. in judging a dairy farm, there was a proof-reader's error in connection proof-reader's error in with the comments on crops. In that paragraph covering yields and conditions it reads "it being neither short nor large," whereas it should read "it I appreciate your paper very much. The special numbers are fine, especi-ally the Poultry Number.—Herbert Coates, Compton Co., Que.

Renew your Subscription now.

June I, INI

Milking by Machinery F. C. Smart, Brockville, On

The first experiments with milking I he first experiments with milking machinery were made 50 years ago Steady progress has been made ew-since, until we have to-day efficient milking machines, such as the Bur rell-Lawrence-Kennedy, which is to cognized as successful. One of our contract as successful. customers, who has used the machine said that it had hand-milking "beat said that it had hand-hunking beat a mile." Milking by machinery mean sanitary milk, clean milk, the last drop obtained from the cow, milking time cut in half and thereby a big saving in labor and money. A user of the Burrell-Lawrence

A user of the Burren-Lawrence Kennedy milker, who has been milking a herd of 100 cows continuously since 1908, and who is making a high grad of sanitary milk, has furnished u with a detailed statement of the actua cost of machine drawn milk, as pared with a hand drawn product-in the same dairy. He is taking great pains in the care of the milk and the way the cows are handled. He milking 100 cows in two h hour with six machines, operated by two men, and a third to carry away the milk, and effects an actual saving of \$1,568 a year. He makes this saving with an equipment, which cost complete \$822.25

MAKES SMALL HERDS PROFITABLE The majority of dairy herds are

Politics and Farm and Dairy

A despatch was printed in one of the Toronto daily papers last week stating that the editor-in-chief of Farm and Dairy was to speak on the reciprocity question at a meeting arranged by a political party in West Dur ham. There were two errors in connection with this despatch. In the first place the meeting in question was not arranged by any political party in that riding, and in the second place, the name of the editor-in-chief of Farm and Dairy had been placed on the programme without his being consulted. He did not know that the meetings were to be held until a copy of the bill containing his name on the pro-gramme was received by him. The meeting in question was not attended by him. The Rural Publishing Co., Limited.

small, containing from 20 to 40 cows

and can, and does in many instances handle the machines himself, and s

saves at once the yearly wage of a hand milker. This amount saved for

hand milker. This amount saved for one year is sufficient to install a com-

plete milking machine outfit in a 25

Correction .- In connection with Mr.

Rennie's article on page three of Farm and Dairy last week commenting

and Dairy last week commenting upon the points that judges look for

being neither short nor lodged.

cow dairy.

June 1, 19

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Dominion 1 A. McNeill, C

No losses in

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The power The smaller of are also being er, more efficie tions have been dian orchards a

The prospects are excellent. I except as to th wood growth a during the sum was excellent, an dict an excellent there are no later in May. no u

Pear trees are he Niagara dis to bloom and the frosts of the las jured them to wood growth of The British Col o be not more t

The commerci

year will in all the average, if r arise. The crop year in many se are in good cond although still pre to the extent of tenderer varietie ly eliminated. I Japan varieties r year, although s

FOR SALE AND TWO CENTS A WO

EGGS FOR HATC W. Leghorns ; egg lar. Tavistock, Ont

Modern and Ancient CHAPTER THREE EORGE Carl Mares of London, England, has just published an elaborate book, "History of the Type-writer." In the preface he says: "THE greater portion of this volume was put into print in 1907, but the constant stream of new machines placed upon the market about that time made it necessary to defer publication. SINCE this work was undertaken, the structure of the typewriter has undergone a complete revol-ution. Probably nothing in any mechanical art has been more mar ked than the progress of the front-stroke visible-writing machine. N this respect the Underwood typewriter would seem to dese all the honors which naturally fall to the successful leader of a revolution.

UNITED TYPEWRITER CO. TORONTO Limited

ORTICULTURE

Dominion Fruit Crop report

A. McNeill, Chief, Fruit Division.

No losses in Eastern Canada have

No losses in Eastern Canada have been reported from winter killing, ex-cept in case, of strawberries, and then only from limited areas. The losses reported have been less than for sev-eral years. For a number of winters, even when the conditions did not ap-part to be unfavorable, fairly serious losses of the second second second been have built and the second second second losses which the trees received

he injuries which the trees received uring the cold series of winters from 1899 to 1904. Apparently normal condi-

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PLUMS

The commercial crop of plums this year will in all probabiliy, be above the average, if no adverse conditions arise. The crop was rather short last arise. The crop was rather short last year in many sections, but the trees are in good condition. The black knot, although still present, is not prevalent to the extent of former years, and the tenderer varieties are being gradual-ly eliminated. It is possible that the Japan varieties may show up well this year, although slight injuries have

EGGS FOR HATCHING-From choice S. C. W. Leghorns; eggs \$1 for 15. Hugh McKel-lar, Tavistock, Ont.

FARM AND DAIRY

ADTICIII TUDE and British Columbia.

559

little crabs .-- John Elliott, Peter-boro Co., Ont.

Nine new subscribers to Farm and Dairy will win you a pure bred pig.



Larger. Faster Working Machinery is Becoming Popular in Orchard Work

The power sprayer is now considered indispensable by our larger orchardists. The smaller orchards, through cooperative ownership of spraying machinery, are also being given the advantage of thorough spraying by means of the fast er, more efficient power machines. 100 tions have been restored, and Cana- | dian orchards are again strong and |

vigorous. APPLES

APPLES The prospects for bloom this year are excellent. It is too early to speak except as to the show in bud. The wood growth and bud development during the summer and fall of 1810 was excellent, and close observers pr-dict an excellent show of blossoms, if there are no later in May. no unfavorable conditions

PEARS

Pear trees are in good condition. In For trees are in good condition. In ree Niagrat district they have begun to bloom and the showing is good. The forsts of the last few weeks have not injured them to any extent, and the wood growth of last season is fair. The British Columbia crop premises to be not more thence or corrections. to be not more than an average one.

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD CASH WITH ORDER

Grapes have wintered well. The wood of last year was well matured, and vigorous. Fortunately the buds were not far enough advanced to be injured by the recent frosts, and pre-sent indications look to at least an avcrage crop.

SMALL FRUITS Small fruits generally have come

> Here is a MOWER that has been built of the best material available and by workmen who have made a careful study of working conditions in the field, who have put expert knowledge into this Mower.

The Frame is rigid and strong and will hold the gears in perfect alignment. The Cutting Apparatus is made to cut all the grass close to the

roots The Gearing is powerful, easy-running, and noiseless.

Boller Bearing is powering, each notations, Boller Bearings and all superior appliances are used. Built in three sizes-4 feet 6 inches, 5 feet, and 6 feet-all of light draft, so that two horses will handle any one with ease. Hamilton's All Steel No. 4 Rake

This liake is a most efficient and durable machine. The teeth and be adjusted to be carried tight to the ground or higher. The walk of the second second second second second second second walking here or silve adjusted so as at the second second second ing a clean windraw. The steel wheels are high and strong and the teeth have loss of gather. The wheels and dump rods are inter-changeable, so that when worn at one end can be reversed. With ordinary care this rake will wear a life time.

See our Agent o. Write Today for Free Illustrated Catalogu



560 (12)

********************** FARM MANAGEMENT **About Pasturing Alfalfa**

Geo. F. Marsh, Grey Co., Ont.

Alfalfa has been proven to be the Alfalia has been proven to be the best pasture plant known in the west. Hogs pastured on alfalfa have made the money for the Kansas farmers; the best colts are raised on alfalfa pasture and little need be said as to the value of alfalfa pasture for dairy cows and for fattening lambs. In the east the value of alfalfa for pathylic proveness is such as the said as to

pasturing purposes is not so well known and there seems to be a preso well known and there seems to be a pre-judice against pasturing it. This pre-judice is due chiefly to the fact that when pastured a large number of stock has been allowed to run over very small patches of alfalfa, which frequently resulted in injury to the stand of alfalfa. IT WILL STAND PASTURING

IT WILL STAND PASTURING Where a reasonable number of ani-mals are placed on alfalfa it will stand as much pasturing as well if not better than any other forage plant. Last year I saw a plot of al-falfa sown on the fail ground at Troy. Pa, come through all right after 500 sheep had pastured on the ground the previous fall. Last fall a 10 acre field of alfalfa

that had been sown on fall wheat in the spring at Geneva, Pa., was pas-tured all fall by about 16 calves—with a wonderful effect on the growth of the alves, and no evil results on the al

In Onandaga County, N.Y., where 'ing stage before turning on the cat-for every acre of timothy or red clov-et there are 20 of lafafa, it is the cus-tom to pasture instead of cutting the grass with the afalfa, it is a good third time. It has been found that practice to have a quantity of old hay, this does no harm if the ground is or even corn or cornstalks, in the final, and there is the custom danger of blast. MRING IT SAFER

MAKING IT SAFER

Joe Wing advises the sowing of brome grass seed with alfalfa when it brome grass seed with alfalfa when it is to be grazed, with sheep or cattle, as being much safer. It is well known that such stock are liable to bloat when pasturing on rank alfalfa. As for myself, though I have never con-sidered that alfalfa was any more dan-cerous than early red clower in congerous than rank red clover, in con-nection with an alfalfa field that has partly run out and is well mixed with blue grass, I have never heard of any injury from bloat; cattle thrive on such pasture wonderfully.

Animals must not be permitted to raze alfalfa too closely. Cattle Animals must not be permitted to graze alfalfa too closely. Cattle should never be turned on alfalfa while they are hungry; they should first be fed all they will eat of hay on ordinary pasture. Then once they are an the alfalfa, do not take them off the alfalfa. The common practice of or the alfalfa, do not take them off the alfalfa. The common practice of putting cattle on alfalfa pasture for an hour or so each day at first, is the worst possible practice, as it brings the cattle on the alfalfa each day while

has

Note. -Joe Wing advises not to pas-Note.—Joe Wing advises not to pas-ture alfalfa in the spring before it has reached near to the blooming time. This is a rule that, if ob-served, will immensely conserve the alfalfa and result in the least possible loss of animals as well.-Editor.

Alfalfa May Be Pastured

Alfalfa is widely grown in and has done much for the State of Nebras-ka. A recent bulletin entitled "Alfal-fa Management," from their state ex-periment station at Lincoln, has the periment station at Lincoln, has the following to say about pasturing al-falfa: An alfalfa field may be pro-fitably pastured if proper precautions are taken. It is especially valuable for hogs, is good for horses, and it nixed with grasses can be safely pas-tured by cattle and sheep. Some farmers practice pasturing with cat-ile and sheep, and state that their losses from bloat are not great enough to offset the value of the nasture. If the cattle on the alfalfa each day while ungry. Alfalfa pasturing is much safer if it as made a considerable growth; it Allaria pasterning is more than a state of the pasterning of the should almost have reached the bloomJune 1, 1911

June 1, 19 Farmers Ņ

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supply of other forage available. The danger from bloat is always present. Henry Pococi M

danger from bloat is always present. Alfalfa should never be pastured the first year, and should never the first year, and should ne be pastured heavily. It is better pasture lightly enough to allow east two cuttings to be made the season, and better results can be secured if the normal number of cu-tings are made. Stock should not be Stock should



Remarkable Growth on Indifferent Sal Tuesday, May 23rd, the editors of Far and Dairy received the alforing part shown, through the mails from Mr. 6s. F. Marsh, who for the summer is on his farm in Grey Co., Ont. This plant su taken from poor, lakeshore and, which has never produced a profitable crop d anything other than alfalfa. This plan grew near a creek where the water hid washed away the sand.--Photo by an ditor of Farm and Dairy.

allowed to pasture immediately after cutting, unless there is a portion the field that has not been cut. If If t entire field has been cut and there a large quantity of stock, the alfald enough to supply the required amou of feed and the plants will be in jured.

Items of Interest

Mr. J. R. Dargavel, M.P.P., Elgin Mr. J. K. Dargavel, M.P.P., Edn. Ont., wishing to encourage the met extensive growing of alfalfa in Sout Leeds, has donated \$50 to be give by the South Leeds Agricultural & ciety for the best three fields of a falfa of not less than three acres and grown in 1912.

Wm. Whyte, vice-president of the C.P.R., Winnipeg, says the increase in acreage in crop in the west the spring is about 25 per cent. This gas is principally in Saskatchewan. It of the second second second second second second second and the second estimates the area in crop as follows: Saskatcheown, 6,000,000 acres; Albe ta, 500,000 to 1,000,000; and Manitola 3,000,000 3,000,000.

3,000,000. The sixth National Dairy See will be held in the International in Stock Amphitheatre, Chicago, Illi ois, Oct. 26-Nov. 4, and will be so only the largest but the most attree tive and comprehensive in the lis tory of the Exposition. The pland the association are to make it intelle of the dairy industry it represent and to establish the annual expe-tion as the clearing house of the dair industry in the United States, Mer-co and Canada.

AN INTERPROVINCIAL PRIZE DAIRY FARMS COMPETITION

Another dairy farms competition, similar to Another dairy farms competition, similar to the one held so successfully during 1000 and 1910, will be held this-year (1911) throughout Ontario and in the Beauharmois District, Quebec. The contest will be continued during 1912, and possibly during 1913, to decide the best dairy farms and farmers in the two provinces. The competition will be conducted by FARM dairy party, of lished in Conda, assisted by a committee of prominent farmers and dairymen.

FIFTY HANDSOME PRIZES

PIFTY MANDSOME PRIZES During 1911 Ontario will be divided into four dis-tricts, which with the Beauharnois District, Que., will make five districts in all. A special competition will be held in each district. Ten handsome prizes will be offered in each of these divisions or 80 in all. Next year (1912) it is proposed to hold a final or semi-final competition between the leading prize winning farms in each of these five districts to decide the best day if armofin all the best day farm in Ontario and another prize for the farm einher in Que-heer or Ontario that scores the most yoints in an inter-provincial contest.

In this year's contest (1911) the first five prize winning farms in the provincial contest held in On-tario during 1910, as well as the four farms that won the first prizes in their districts in 1909, will not be allowed to take part

THE DISTRICTS

The five districts in which contests will be held this year (1911) will be approximately as follows: DISTRICT No. 1.-The Beauharnois District, Que., comprising the counties of Beauharnois, Chat-

eauguay and Huntingdon. DISTRICT No. 2.-That portion of Eastern Ontario lying East of a line running North from

Kingston

DISTRICT No. 3.—The counties in Eastern Ontario between Kingston and Yonge St., Toronto. DISTRICT No. 4.—Western Ontario, North of a line running from Hamilton to Goderich.

DISTRICT No. 5.-Western Ontario, South of a line running from Hamilton to Goderich.

For further particulars, entry forms, etc., write the Secretary of the Committee, H. B. COWAN, FARM & DAIRY, - - PETERBORO

These districts (except No. 1) are subject to re-vision after the entries have been received to facili-tate the judging of the farms.

JUDCING THE FARMS, THE POINTS OFFERED

The farms will be judged in July, (1911), by two judges. Where competition is close for some of the leading prizes in any or all of the districts, the judges will have the privilege of visiting such farms again next winter, before making their final awards.

All departments of the farm will be included in the competition. A total of 1050 points will be of-fered, subdivided as follows:

House, 155, viz., plan, finish and approaches, 25, lawn 20, garden and orchard 35, arrangement of house 25, sanitation 15, ice and water supply 15, education, including books and periodicals, 20; total, 155

Buildings, 175, viz., provision and size 25; loca-tion 25, condition 20, neatness 20, convenience 25, light and ventilation 25, water supply 25, yard, 10: total, 175

Live stock, 210, number 40, quality and condi-tion 40, breeding 40, feeding 20, horses 30, swine 25, poultry 15; total, 210.

Crops, 215, viz., suitability for milk production 50, yields and condition 75, freedom from weeds 75, pastures and shade 15; total, 215.

pastures and shade 15; total. 215. Management, 140, viz., arrangement of fields 20, rotation 25, fences, gates, ditches and roads, 20, workmanship and neatness 25, preservation of man-ure 20, bookkeeping and records 20, summer water supply 10; total, 140. Machinery 75, viz., supply 25, housing 20, condi-tion of repair 20, character 10; total 75. Permanent improvement 80, viz., public roads 10, freedom from obstacles 26, drainage 25, beautifying 20, total, 80. Grand total, 1060. The farms in each district scoring the highest number of points will be awarded the prizes. During 1912 the prize winning farms this year will be allowed to compete in a final or semi-final competition to de-cide the best ten dairy farms in Ontario and in a special competition to determine the best dairy farm in Ontario and Quebec. in Ontario and Quebec.

PETERBORO, ONT.

,000 concrete Intario alone Another mac talled by far



Farmers Buying Concrete Machinery

Henry Pocock, Mgr. London Concrete Machinery Co.

The use of concrete on the Cana The use of concrete on the Cana-dian farm 15 years ago was limited, the price of cement at that time being such as to make the use of it pro-hibitive for farm building. Within the last few years, on account of cement being manufactured in Canada on a lower scale, the farmer, here here being manufactured in Canada on a larger scale, the farmer has been able to purchase cement at reasonable prices which has meant the introducion of this material on farms. The ollowing structures are now being stable foundations and floors, cis-iens, well curbings, fence posts, hog roughs, mangers, hens' nests, drain tile, and so forth. The largest agount is being used for building dealing houses, silos, barns, stable valls, stable floorings and cement dain tile. Bhortage of labor in rural conto instal improved machine there do not how the sorting of concrete; the farmer days of some work and taking con-tracts from other farmers. tracts from other farmers A piece of apparatus that is being largely used by farm-ers is curbs for build-ing concrete silos.

ing concrete silos. There are now over 300 There are now over 300 the state of the London ad-justable silo curbs in of these having been of these having been who build their own and also build for the other is in their community. Over

armers in their

drain tile machine. This machine is would require 39 yds. gravel and about of \$136. 5. Ints machine is would require avyas, gravet and about quite expensive, but 35 bbls. cement. It should be rein-many farmers own-forced with ½ iron rods every third ing a good gravel course of blocks. The foundation or sandpit consider should be built 18 inches wide and 6 ing a good gravel or sandpit consider it profitable to instal

or sandpit consider i profitable to instal a machine to many-tack both and be built 18 inches wie and 6 inches deep, projecting the same dis-tance both nois de and outside of wall. London Concrete Machinery Co., tick, per John C. Doidge, Manager. markets. The co-markets. The co-markets the co-profitable branches of the concrete idustry. While a plant costs a con-ni a very short time for a plant to pay for itself. One machine that has become newy.

pay for itself. One machine that has become very popular in Canada is known as the few years, but we can estimate that Automatic

London Mixer No. Mixer No. 1, which sells at \$250, and weighs only 1,700 pounds. By the use of one of these ma-chines the farmer can mix concrete at a cost of from 12c to 15c a yard, where 1. which with hand-mixing it costs from 50c to 75c a yard. Figuring it out on this basis the

ammets in their community. Uver meter? Do the blocks need reinforcing "Manual Solution and the second secon



Out on this pasts are purchase of one of these machines is in most cases a good investment they will last at least eight years, so for the farmer. There are now over we must charge yearly \$60 for de-for the farmer. There are now over we must charge yearly \$60 for de-Queries re Concrete Block Silo Now much gravel and how much essentiation of the expenses for repairs not expect that they will ever amount to much so that we can c ant alto to much so that we can c ant alto to much so that we can c ant alto to much so that we can c ant alto to much so that we can c ant alto to much so that we can c ant alto the system of a yearly expense of \$100 and this sum, together with the run-ning expenses of the engine should block silo 32 feet high and 16 feet in dia-meter? Do the blocks meed reinforcing with wire or iron? What kind of A concrete silo 16 f. in diameter, and 32 feet high, st in diameter, block silo 42 feet high, st in diameter, and block silo 42 feet high, st in diameter, bl 300 of these concrete mixers in use preciation. The expenses for repairs throughout Çanada, over 100 of which have been very low so far, and we do

Besides other advantages. the milking machine, saves, in this case the labor of one man, and to pay \$136 for a man's labor is certainly a profitable exchange.

profitable exchange. In this total cost of \$136 a year we have included everything that is con-nected with the initial outlay of \$300, and the milking machine itself, so that a farmer who has borrowed this \$500 will have paid off that debt, be sole owner of the machine, and have had all the time the benefit of that machine for the yearly expenditure of \$136 for eight years—an outlay that is more than paid back by the wages nore than paid back by the wages that are saved

We have given the matter careful We have given the matter careful consideration, and would advise every farmer who has a herd of more than 30 cows to try the machine. We should advise him, however, to do the running himself. In course of time farm hands will know the handling of the machine.—J. Vanderleek.

Alfalfa.—On Saturday morning, May 27th, the editors of Farm and Dairy received from Mr. Marsh, Grey Co., Ont., samples of one-year-old al-Co., Ont., samples of one-year-old al-falfa plants, the tops of which already this season had grown to over 92 inches in length. Mr. Marsh anto sen, some plants of alfalfa grown from seed sown in his fall wheat last August. These latter measured from 10.2 10 inches in hearth of torus. from second sec

The next annual meeting The next annual meeting of the American Association of Farmers' Institute Workers, will be held at Columbus, Ohio, Nov. 13 to 15, 1911. At the same place and beginning Nov. 15, will be held the annual meet-ing of the Association of American Agricultural Colleges and Experiof the ment Stations





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FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

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add 30 cents for excumange reverted the banks. OF ADDRESS. — When a change of addresse is ordered, both the old and new addressee must be given. 5. ADVERTISING BATES quoted on ap-plication. Copy received up to the Bridga 6. WE INVITE PARMEDS to write us on any agricultural topic. We are always pleased to receive practical articles.

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FARM AND DAIRY PETERBORO, ONT.

ELECTRICITY FOR FARM WORK

Not many years ago it would have eemed a far off cry to talk about farm houses in general being heated by electric radiators, bread toasted therein by electric toasters, the iron-ing done with an electric flat iron, the coffee prepared in an electric percolator, the cooking done with an electric cooking outfit and the house and barns illuminated at night with electric incandescent lamps.

All of these may shortly be actual facts in a goodly number of farms keated within range of the Hydro-Flectric transmission lines and services. Our readers may learn of the provision that has been made for supplying electric power to farmers by referring to an article on page two. Farm and Dairy is informed by the secretary of the commission, Mr. W W. Pope, that already a number of townships, under the Act passed 'a the Ontario legislature last session, have applied for the power and steps are being taken to furnish them with the power. Some of the rural municipalities that have applied for power under the recent Act are-Parkhill, Lucan, Glencoe, Clarksburg, Cottam, Dublin, Dereham, Millbank, Mt. Salem, North Oxford, Otterville, Luther West, Mono, Rochester, South Dumfries, South Norwich, Smithville, including the Police villages of Baden. Mimico, Port Credit, and others, all of which are receiving attention and being enquired into with a view of ascertaining their several requirements, and upon such reports will depend the estimated cost of power to them.

The electric age on the farm has passed its dawn. It is safe to predict that before the end of the present decade we shall see wonderful developments in the use of electricity in the country. Ere long we will not consider it anything out of the ordinary to hear of electricity doing on the farm all the things enumerated in the first paragraph of this editorial, lighting farm buildings, running the farm machinery, and pumping the water for the family and the farm stock. Here's hoping for an early consummation of the vision!

NEXT----THE MOTOR TRUCK

The motor truck bids fair to fill many important places in various lines of agricultural endeavor. Articles published elsewhere in this issue will apprise Farm and Dairy readers of the trend of the times in regard to the motor truck.

On the creamery page we reproduce a photo showing a motor truck used in connection with the Browlin creamery. Judging from Mr. Patter son's experience the possibilities of the creamery business are about to be greatly enlarged following on the more general introduction of the fastmoving, distance-defying motor.

In the early future the motor truck will in all probability become a factor in delivering milk from those farms within reasonable distance of cities where now milk is delivered by express companies that take an exorbitant toll for their services.

The fruit growers near large consuming centres also will resort to the motor truck for delivering their produce. A number of growers near Clarkson, Ont., last summer, on being interviewed by an editor of Farm and Dairy, intimated that they were considering the motor truck as a means of lowering the cost of marketing and of retaining a greater percentage of the consumer's price, which they, the producers, ought to receive.

The practicability of the motor truck in meeting the needs of the fruit growers situated as are the Clarkson men, becomes evident when it is learned that growers at Clarkson can with a team and a spring democrat deliver a load of green corn, on-the-cob, in Toronto, a distance of 20 miles, and make from \$9 to \$10 on the trip, which amount would otherwise be the toll exacted by the express company.

In connection with the larger farms

invaluable means of transportation on long and short trips and in general haulage work, of which there is an abundance though of a varying kind on such farms. The small tractor, illustrated on page five, which also may be used as a motor truck as shown in the illustration, may prove itself invaluable on even an ordinary 100acre farm.

Verily the day of the motor and the motor truck is with us, and who would care to forecast with certainty the future of its usefulness covering even the next period of five years?

LARGE FARMS ARE INEVITABLE

Contrary to the history of agriculture the world over it would appear that Ontario farms, and perhaps the farms of the other older provinces. are destined to become larger rather than decrease in size as the country develops and ages. That tendency towards small acreage in individual farms, which has been true until very recently of all countries as they aged in their making, is being upset by the mechanical age in which we are now living.

Professor Bailey, of Cornell University, in a recent press interview, gave expression to the opinion that land acreage of farms in the future will increase rather than decrease. He believes that the small farm idea. now persistently proclaimed through out the United States, and in this country, is the outgrowth of necessity born of European oppression and that the general adoption of this practice would reduce our farmers to the same class as the peasantry of Europe. According to Professor Bailey, every acre should be forced to yield its utmost capacity, as is required in "the small farm well tilled" idea, but in the future to get the best results the farmer must be a man of large affairs and of great business ability, and be able to superintend crop raising on a large scale in the same manner that an engineer superintends the construction of a modern sky-scraper. Farming is no longer a poor man's business, he declares; the farmer of the future will combine the qualities of capitalist and worker to attain success. Six hundred acres will support just as many people if it is owned by one man in a single piece as if re is owned by ten men, each owning and operating 60 acres, and the work of production will be facilitated by receiving direction from one common and capable head. Consequently, Professor Bailey maintains, the small farmer of the future will not be able to eke out even the most slender existence, but will be forced by conditions to work for the big farm owner.

This trend of the times may not be just to the liking of the rural economist, but notwithstanding the fact the ultimate general prevalence of larger farms appears to be inevitable. And the beginning has been made. New inventions-announced almost daily-for the purpose of saving hand labor and adding to man's efficiency, will help the movement along. Even now the equipment in the matter of the motor truck will prove itself an farm machinery with the average pro-

June I, IOII

gressive farmer must represent very considerable slice of capital. He cannot stand much more. With the oncoming of the automobile, the farm tractor, electric power on the farm and more efficient tilling machinery all of which have already been intro duced, the man who would have then all and keep production within a real sonable cost must needs be a man of large affairs, owning or controlling land in large areas, else he canno make these pay. The smaller genera farmer, it would seem, will be squeez ed out

Soon our farm lands will be handled as business enterprises now are with capital and machinery. And it will all be for the best. The working on of this seeming tendency towards lar ger farms, as Professor Bailey claim need not be a bad thing for our agn culture, or for our people, although it will for ever put farming beyond being a poor man's business.

THE TARIFF ON FARM MACHINERY

Why should we farmers when we purchase farm implements be obliged to pay the cost of production, the manufacturer's profit, the wholesaler' profit, the retailer's profit, and on to of all that, the increased price that is made possible through the working of the protective tariff? Is it not time that manufacturers of agricol tural implements were giving up the 'infant industry" plea and start in to stand on their own feet not ours Our Canadian manufacturers have de monstrated that in every other coun try in the world where agricultura implements are sold they can com pete successfully with the manufac turers of other countries. In the home market, however, where they are near their customers and are protected by shorter hauls, the claim is made that they are unable to meet the competition of United State manufacturers without the protection of a tariff wall.

They tell us that it costs more t manufacture in Canada than in the United States. This plea can no longer be taken seriously. In a United States Government investigation into an implement concern in the United States, that has branches a Canada as well, one of the officials under oath stated that there was practically no difference in the cost of manufacture in the two countries Why then should we continue to give our implement manufacturers (what have cheaper labor than have their competitors in the States, and why get their raw material practically free of duty) the privilege of adding 171/2 per cent. to the selling price that would be determined by free competi tion? And 171/2 per cent. ad valo rem is about 35 per cent. protection on the cost of production!

Our agricultural implement con cerns are prosperous. They are pay ing much larger dvidends on capita invested than are the farms of this country. One of the largest of our agricultural implement concerns ha since its inauguration 20 years age increased its output steadily from \$4,000,000 to \$15,000,000. The bal

June 1, 19

ance sheets of t fully guarded i siders but it is dends paid in r at the rate of large sums hav aside for future plant. This is industries! The added co

due to the w Lears with und Protect mers. ensure the cont try. Among th mers' deputatio cember was fre implements. Th agreement offer of two and a h mers are as sti to the continua agricultural im be satisfied uni moved.

The greatest number is the posed to und 1

The Tariff s on Ditchers I chinery-especi ers. Tile drai needed would n even to Ontario underdrainage, labor, rests wit These machine Canada. In t cost \$1,200 to must be adde and duty which up to \$1,800 t about \$300 sh cost of the d duty is hard to

Healthy com mers results Speaking to a:

A Creat Educator

me a long tim that competitio I did. When I me I found fla I had never n the judges came my farm with places where I would never h other way." Farm and Dai entered in the successful farm Their visit to a is worth what pense the comp in entering th farms are judg that takes in Weakness in a points need n entering. The a great educate repaid for ente Farm and Dair Farms Compet it now !

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FARM AND DAIRY

ance sheets of this company are care-Ormstown, Que., Spring Show

fully guarded from the eyes of outsiders but it is known that the dividends paid in recent years have been at the rate of eight per cent., while large sums have annually been said aside for future improvements in the plant. This is one of our infant (?) industries!

The added cost of farm implements due to the workings of the tariff Lears with undue weight upon us far-Protection is not needed to mers. ensure the continuance of the industry. Among the demands of the farmers' deputation to Ottawa last December was free trade in agricultural implements. The proposed reciprocity agreement offers relief to the extent of two and a half per cent. We far-Imers are as strongly opposed as ever to the continuance of any duties on agricultural implements, and will not be satisfied until this injustice is removed.

The greatest good to the greatest number is the principle that is supposed to underlie all legislation. This principle was lost

The Tariff sight of when a duty on Ditchers of 171/2 per cent. was

placed on farm machinery-especially on traction ditchers. Tile drains in all fields where needed would mean millions of dollars even to Ontario alone. The future of underdrainage, due to scarcity of labor, rests with the traction ditcher. These machines are not made in Canada. In the United States they cost \$1,200 to \$1,400. To this cost must be added the freight charges and duty which brings the total cost up to \$1,800 to \$2,200. Just why about \$300 should be added to the cost of the ditcher by the import duty is hard to understand.

Healthy competition between farmers results in better farming. Speaking to an editor of Farm and Dairy recently one of

Dairy recently one of A Creat the competitors in the Educator last dairy frams com-petition said: "It took me a long time to decide to go into thas competition, but I am glad that I did. When I started to look around me I found flaws in my farming that I did. When I started to look around me I found flaws in my farming that the judges came around and compared my farm with other farms I found places where I could improve that I wolf never have found out in any other way." Judges employed by Farm and Dairy to judge the farm the farme farme stitung the farme stream filter the farme geskating rink, and its the farme stream filter the farme gestating rink, and its the farme stream filter the farme gestating rink, and its the farme stream filter the farme gestating rink, and its the farme stream filter the farme stream for the farme stream filter the farme stream filter the farme stream for the farme stream filter the farme stream filter the farme stream filte Farm and Dairy to judge the farms entered in the farms competitions are successful farmers of wide reputation. Their visit to a competing farm alone is worth what little trouble and expense the competitor may be put to in entering the competition. The farms are judged by a scale of points that takes in all sides of farming. Weakness in any one, two, or many points need not deter anyone from entering. The farms competition is a great educator, and you will be well repaid for entering your farm in the Farm and Dairy Interprovincial Prize Farms Competition this year. Enter it now !

W. F. Stephen, Huntingdon Co., Que. One year ago, Dr. D. McCachran, Robert Ness, and other of the leading stockmen in the district of Beauhar-

stockmen in the district of Beauhar-nois, situated in the western end of the province of Quobec, promoted a, spring show. There were miggivings as to whether it would be a success or not. The second annual show was held at the village of Ormstown or Moved, 42, and 26, and was as far abead of the most sanguine expecta-tions of its remonences. Dr A Mer. tions of the most sangume expecta-tions of its promoters. Dr. A. Mc-Comick, the capable secretary, had the show well in hand, and was ally backed up by his assistants, D. J. Greig and A. S. Cunningham looking after horse interests, and Neil Sang-ster and R. R. Ness had the cattle end in charge. The entries nearly doubled those of

The entries nearly doubled those of last year, there being 345 entries of horses, cattle 315, sheep 90, swine 45, and poultry 190. A number of the horses were stabled in the village, the balance in a tent fitted for the occa-sion. The 315 cattle were all housed in one large tent, and the beautiful white Ayrshires contrasted nicely with the choice lot of black and whites and the few Jersys. The sheep and poul-

the few Jerseys. The sheep and poul-

the few Jerseys. The sheep and poul-try occupied a tent together, and the swine one by themselves. The display of live stock was the admiration of all. Many visitors were surprised to find such a grand array of choice home-bred and imported animals. Not the least admirer was the Minister of Agriculture for the province, Hon. J. E. Caron, who was delighted, on this his first visit to this part of the country, to see such a beautiful lot of live stock. The stock was all shown by farmers—no professional stockmen had animals on exhibit. Seventy-five per cent. of the exhibit. Seventy-five per cent. of the stock was owned by farmers living in

Cash ways of the second second

DAINY OATTLE The cathle exhibit was the best over held in the district. Ayrshires led with 175 head, shown by R. R. Neæs, H. Gordon, J. W. Logan, P. D. Mc-den, W.m. Brown, Jahn Brown, Jas. McKill, D. T. Neæs, W. T. Stewart, Geo. Finlayson, W.m. Hay, D. McKill, Choster Orr, Robt. Kerr, McNaugh-ton Bros., G. Muir, C. Moe, in point of numbers in the order named. All the classes were well filed and com-DAIRY CATTLE ton Bros. G. Muir, C. Moe, in point of numbers in the order named. All the classes were well filled and con-tained from 6 to 18 entries in each class. Judge W. Drummond, of 0t-tawa, proved equal to the occasion, and many of his decisions were made

on fine points. In aged bulls, awards were: 1, (Continued on page 16.)



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> Ormstown, Que., Spring Show (Continued from page 15.)

> McArthur on Netherhall Milkman; 2,



A Creamery Man Uses this Motor Truck to Great Advantage

Mr. E. E. Patterson, of Ontario Co., Ont., is here shown as he is leaving on a 37 mile cream route. He makes this trip in four hours, collecting six cans of cream from 27 patrons. Read of Mr. Patters on's experience with the motor truck as he tells it in an adjoining article.

well filled

Weil niled. In aged cows 14 lined up, all good ones, showing vigor of constitution, true type, and good udder and teat development. The Ayrshire fault-short teats was not conspicuous

Aged herds-Gordon, Ness, Mc-Arthur, Logan. Young herds-Ness, McArthur, Gordon, Logan.

HOLSTEINS

About 130 Holsteins were out, Neil Sangster leading with 34 head. The ribbons were placed satisfactorily by Prof. H. Barton, of Macdonal Col-lege. The classes were all well filled,

and men being so expensive, some oth-er system, like that of the motor truck, gan, Netherhall Good Time; 4, Me-for collecting cream is necessary as Naughton Bros. The two-year-olds Ness, Morton Status can, Nethenhal Good Time, 4, Me-Naughton Bros. The two-year-olds made a fine class, lst place going to Gordon's splendid Auchenbrain His Eminence: 2, Hay on Netherhall Douglas; 3, Ness, Morton Mains Ara-meth; and 4, Howden on a Monkland bull. Seventene yearings faced the undon. The junior classes were all for collecting cream is necessary as it is impossible to raise the price of

E. E. Patterson, Ontario Co., Ont. The motor truck that we have been sing for collecting cream is very sat-factory, since economical cream

sfactory, since economical cream hauling is a big factor in the success

haung is a view of late years we nave been forced, to pay such exorbitant rates to express companies, where

ream is shipped by rail, and horses

It is a factor of importance to get the cream collected in good condition, and this depends largely on the cream and this depends largely on the cream haulers. Before starting to haulour cream with the motor truck, we hired men with horses. This was an ex-pensive method in our part of the country, where farmers are raising beef cattle, and dairying is not car-ried on extensively. On some of our routes the hauler would leave the fac-tor extension of the source of the sourc tory at six in the morning and would not be back until six in the evening. here. Gordon's beautiful Southwick Meg won 1st, closely run by Ness with Nellie Burns 5th; 3, Ness, Barcheskie Lucky Girl; 4, Gordon, Barcheskie Sybil 4th; and 5, Ness, with Silvan Pett The first cream collected, therefore was carried on the wagon all day. was carried on the wagon all day. With our motor truck we can run these same trips in from four to four and a half hours. The cream is brought to the creamery in much better condition than formerly and in place of two or three men with teams, one man will do all the work. Bell.

do all the work. We have added 50 new patrons to We have added 30 new patrons to our list since starting to gather cream with the motor truck. The great ma-jority of these we would never have been able to get with horses, as some of our routes are nearly 50 miles lon-We can, however, cover these long routes in half a day. 3, Ness, Gienshamrock Canty and Nei-lie Burns; 4 Gordon, Southwick Kir-sty; 5, Ness, Orange Blossom. In the grade Ayrshire class, about 30 were led in the ring. Hector Gor-dom won the T. Dryadalo prize for best dairy cow with his Ayrshire grade, over all breeds.

Electricity in the Creamery

Lifectively in the creamery A. July, Peterbox, $C_{0,i}$, Ont. We are using electricity for light-ing and power in the Peterboxo cream-ery for the first time this season. Electricity is most advantageous for lighting. In the short days of winter, particularly, electric light comes in very handy

Electric power is more convenient and cheaper than is steam. Of course we still use the steam for heating but it is not necessary to keep up pressure for churning. When we were using steam for both heating and power our coal bill for the year lego. The classes were all well filled, and decisions close. Exhibitors were: W. T. Rice, John McRae, Geo. Win-ter, J. S. Rutherford, E. Crutchfield, M. M. McNaughton, Alex. Townie, T. Rutherford, H. Elliot, J. J. Alexwas \$300. One hundred dollars pays the coal bill now. The electric pow-er costs us \$100, which means a savJune 1, 1911

Creamery Department a month extra. The aged Dun or W. S. Kice was an easy winner, a bull of grand charac-ter. He is of the Dot Sultan bred-ing; 2, McEwan; 3, Crutchfield. Two-year-olds-Sangster was last with a milky bull, Pleasant Hil Pontiae.

Among the young classes were noticed a lot of lusty youngsters. Sangster carried the three

Queen; 4, Cowan; 5, Crutchfield. The heifer classes were well filled The heifer classes were well filled. Here some would have stood a little more feed, and had to step down as a result. About 30 Holstein grains were shown. All did not get first prize, but many were worthy of it. Dr. McEachran showed a min-burgh of Larsays auronated by a fors

individual exhibits.

and D. T. Ness. Purcell won most of the firsts, with Pringle a close 2nd Shropshires were shown by Jas. Donaldson and A. Hunter; Oxford Downs and Dorset Horned by Mr. Kerr



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Machinery G. G. Publow, Ea I have been Dairy to write

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The expense factory should trons in prop and casein d hauling of th which should of the milk, to which syst is most used, but there show the foregoing of apportionit Zufelt, Supt.,

In the Ma and Dairy m ill effects wh the competing business of t creamery at who cwns the that the esta was necessary could not ge their milk to

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WESTERN FA tion regardin H. H. Sude Roard of Tr katchewan.

in aged cows with a cow of Pauline De Kol breeding, Verona and Rhodes

bunch of Jerseys, augmented by a few

In sheep, Leicesters were shown by J. Purcell and D. Pringle, Hunting don; D. Baxter, J. Bryson, D. Lang and D. T. Ness. Purcell won most of

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*********************** Cheese Department, Makers are invited to send contributions to this department, to ask questions or mutter relating to cheesemakers by attiment; eliterato Theosemakers by partment;

Machinery in Factory Work G. G. Publow, Chief Dairy Instructor, Eastern Ontario

I have been asked by Farm and Dairy to write an article on "Machin-ery most needed in Cheese Factories." ery most needed in Cheese Factories." It is practically impossible to write such an article as there is really no lack of necessary machinery in our factories. Steam curd mills and pow-er agitators are to a certain extent savers of manual labor but they re quire extra fuel and from an economic quire extra fuel and from an economic

quire extra tuel and from an economic standpoint it is questionable if they are advisable. They certainly do not improve the quality of the cheese. One thing, however, that is both lacking and necessary in nearly all cheese factories, is apparatus for test-ing the quality of milk. If cheese mak-ers, patrons and factorymen only ap-respond the value of a Babyerb testers, patrons and factorymen only ap-preciated the value of a Babcock test-er, even from a business standpoint, every factory would have one now. Even if the milk is not paid for ac-

Even if the milk is not paid for ac-cording to its quality, the test en-ables the maker to better judge the raw material from which he must make his cheese, to keep a check on and record of losses in the whey and in time the patrons could gradually be taught from actual cheese yields a be formers of paying for milk accord. be taight from actual receive yields the fairness of paying for milk accord-ing to its quality, and the value of improvement in the dairy herds. Any-thing that can be done to stimulate the business along this line would be a valuable adjunct to the dairy in-

Payment of Expenses

"When paying for milk by the fat plus two system, should the patron pay his part of the expenses in proportion to the lbs. of milk or in proportion to the lbs. of fat and casein he delivers?"-J. L. D.,

of far and case in he delivers?"—J. L. D.-Hawings Co., Ont. The expenses at a pay by 'est cheese factory should be borte by the pat-trons in proportion to the lbs. of fat and case in delivered, except for the hauling of the milk to the factory, which should be paid for by 't e weight of the milk, usually by the ton. As to which system of paying expenses is most used, I am not prepared to sav but there should be no question as to the foregoing being the correct method of anontrinning the expenses.—L. A. of apportioning the expenses.-L. A. Zufelt, Supt., Kingston Dairy School.

In the March 23rd issue of Farm and Dairy mention was made of the ill effects which the establishment of In energy which the extantistment of the competing factory had had on the business of the old and established createry at Ennismore Mr. Killen who evens the conpeting factory states that the establishment of this factory was necessary as he and his neighbors could not get facilities for sending their milk to the older factory.

FOR SALE AND WANT ADVERTISING

TWO CENTS & WORD CASH WITH ORDER FOR SALE--Iron Pipe, Pulleys, Belting, Balla, Ohain Wire Pencina, Iron Posts, etc., all elss, very cheap Send for list, stating what you want. The Imperial Warts and Metal Co., Dept. P.D. Queen street, Montreal.

LIVE MAN OR WOMAN WANTED FOR work at home, paying \$2 or \$3 per day with opportunity to advance. Epare time can be used. Work not difficult and requires no experience.-Winston, Limited, Spadina Ave., Toroato.

HARDWOOD ASHES-Best fertilizer in use.-George Stevens, Peterboro. Ont.

WESTERN FARM LANDS-Large returns, casy payments. For reliable informa-tion regarding choice farm lands write H. H. Suddaby, Sec. Treas. Herbert, Roard of Trade, Box III, Herbert, Say hatchewan.

FARM AND DAIRY

A Discussion on Curd Knives D. J. Cameron, Victoria Co., Ont. If the factory is to keep but one set of curd knives, I would recommend the 3-8 horizontal blade knife and the the 3-8 horizontal blade knife and the 5-16 perpendicular wire knife. The 5-16 in the knife is hardly fine enough for fast working milk, and if such milk is received in quantity a 1-4 inch perpendicular knife should be on hand as well. A good general rule is to use the knife that will give the clean-est cut with the least breakage to the curd. The best plan is to educate the patron to bring in the kind of milk that may be handled with a 5-16 knife. A blade knife has advantages over the wire knife; at least it used to have. A blade knife has advantages over the wire knife; at least it used to have. It is more durable and with the kind of knives we got at one time, when they got dull they could be sharpened. This is no longer possible, however, with the poor quality of steel put into

the knives now on the market.

Cool Curing for Cheese

Ont. W. C. snearer, Oxford Co., "Our plant cost \$700 to install. By weighing cheese in the old curing room and then in the new one we have figured that at the end of three years the room will have paid for itself on shrinkage alone. We also find a marked difference in the bet-ter quality of the cheese."-E. Moore, Porth Co., Ont. "Shrinkage is reduced to a mini-mum in our cool curing room. We never have a cheese retued, as the even temperature, no matter how hot the weather, ensares good quality. If

even temperature, no matter how hot the weather, ensures good quality. If the market is not favorable we can hold our cheese for almost any length of time without loss.¹—H. Bollert, Oxford Co., Ont. "Previous to installing our cool caring room we stored cur cheese for four years in the Woodstock experi-ion that the we acheduate the two more that time we acheduate the two

four years in the Woodstock experi-mental cool curing room, and dur-ing that time we calculated that on alirinkage alone we saved \$927.66. We feel confident that the outlay on our cocl curing room was returned to us in xwo years by abrinkage saved and improved quality."—A. Mac-Ref. the 1.100 cheese factories in Ontaric only about 60 hove installed

Of the 1.100 cheese factories in Ontario only about 50 have installed cool curing rooms. Farm and Dairy has heard from almost all of these, and all of the replies are in the same spirit as these here published. There



The establishment of a cool curing

The establishment of a cool curing room in a cheese factory stands in the same relation to cheese factory patrons as does the growing of al-ialfa to the most profitable feeding of cows. We cannot afford not to do it. We have yet to hear of a fac-try where the cool curing room has been installed and tried out where the patrons would be willing to go back to the old curing room. In all cases they consider their cool curing room one of the best investments they ever made. Many think that the whole cost of the curing room was returned to them in the saving in abrinkage in two years. We have heard of no case in which the curing was recurned to them in the saving in shrinkage in two years. We have heard of no case in which the curing room has not paid for itself in four years. Patrens all wonder how they ever got along without it. The following are a few of the testimonies are usually some persons dissatisfied You Can Afford The Very Best BT Equipment

The special features on it (to be had from no other manufacturer) cut squarely in two the cost of caring for the cattle in the barn; often times prevent big knees and abortion; save feed, save expense in other ways; and in addition the confort afforded the cowa and the cleanlines made possible, increases the yield and improves the quality of the milk. By accomplishing these things, the special features of B T Equipment save moves and make money sufficient to pay for the entire cost of the equipment in a very short time. The matter of Stable Equipment is a set of the special features of B T Equipment save moves and make money sufficient to pay for the entire cost of the equipment in a very short time.

BROS

BECAUSE :

Our new catalogue on Sanitary Barn Equipment tells how coment floors should be laid for stables, the proper measur-ment and sh-pe for the cattle-siand, the menger, the gutter, etc. It actuated and the stable floor tells and actual and the stable floor tells and tells and the stable floor tells and II you a billion tells and tells and

If you are building or remodelling your stable. All out this coupon, and we will send you free our booklet on stable construction. We also build Hay Carriers and Lit-ter Carriers.

Beatty Bros. 1603 Fergus, Canada :

Kindly send me (free) your Booklet on Stable Construction and BT Stalls.

How many cows have you? Are you going to remodel or build? If so, when?.....

Mention if you will need a hay track or litter carrier.

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Province



It is a pleasure to work in a stable like this. When you read our book-let you will see how this equipment lessens abortion and does away with the principal cause of big knees, ruined udders, and many other injuries which cows are liable to. You will see how the individual managers prevent over-feeding and under-feeding. You will also learn how the ex-clusive features on BT Stalls mean dollars and cents to you giving grace com-fort and protection to your cows.

FERGUS, ONTARIO

BEATTY

FARM AND DAIRY



THE law of nature is that a certain quantity of work is necessary to produce a certain quantity of good of any kind whatever. If you want knowledge, you must toil for it ; and if pleasure, you must toil for it .-Ruskin

... The Road to Providence

(Copyrighted)

MARIA THOMPSON DAVIESS

(Continued from last week.)

SYNOPSIS OF "THE ROAD TO PROVIDENCE."

SYNOPSIS OF "THE ROAD TO PROVIDENCE." Was, Mayberry, a country physichesis widow, has taken moto see home Elinoren is much loved thr-aghout the countrysic. Here son, Tom, is a rising decotor in the dity, but s uong the home neighbors there is a humorous preference for "Mo-ther" Mayberry is remedied. His wingsite becomes happier than she has been at Mark the three the base of her twice. More may happier than she has been at Mark the three the set of the twice. More may happier than she has been at the dire is to be able to restore her power to sing. Dr. Mayberry is told by Miss Wingste upon one occasion that she is son happy. It does not hants if a single the daire is to be able to restore her power to sing. Dr. Mayberry tells her that all have the upon one occasion that she work, by the day of the day by the wingste upon one occasion that she on happy. It does not have up the though he does not know why be knows, he take but shows any any ready to respond to them. The sewing circle meets with Mother Mayburry, whose table and philosophic Rindses are as usual bountfully served to her guesta variant in the morning without letting Missing for the previous the try or which were supervised by Mother Mayburry. That night form conferess to Miss Wingste that he loves her. Wingate that he loves her

Son O, Tom said, as she | way of refutation of her speech, she her, was totally unprepared for the wonder-posi-ful, absolute silence that met her her-rams oics. He stood and looked her full Mayberry,"

* N ⁶, Tom Mayberry," she said, as he reached for her, and her tone was so posi-tive that he stopped with his arms in the air and let them sink slowly to his side. "We'll have this question right out here and if have trouble with you 'll-call your Moth-er," and she laughed as she shook away a ter.

away a tear. "Please!" he pleaded, and his face was both so radiant and so worn that she had to harden her heart against him to be able to hold herself in hand for what she wanted to say to him. "No," she answered determinedly

"and you must listen to every word I say, for I am getting frightened al-ready, and may have to stop."

ready, and may have to stop." "I want to talk some myself," he said with the very first smile coming into his grave young eyes. "I want to tell you that I can't help loving you, and have ever since I first saw you. but that it won't do at all for you to but that it won't do at all for you to marry-marry a Providence country bumpkin with nothing but a doctoring head on his shoulders. I want you to understand that " understand that-

"Please don't refuse me this way be "Please don't refuse me this way be-fore I've ever asked you," she said, with a trace of the grand dame hau-teur in her manner and voice that he had never seen before. "I think—I think vers suddenly I have come to oh, I'm very much frightmend, but I must say it." I wouldn't blame you of gill. I—I somehw, I don't seem very great—or real to myself here in Pro-vidence. My training has been all to

learn? Cindy says l'm a wonder-and remember the custards," she fin-ished from somewhere in the region of his collar. "Now that we have both refused each other do you suppose we can go on and be happy?" she laugh-ead of from under his chin. both

ed softly from under his chin. And the young Doctor held her very close and never answered a word she said. The strain on him had been very great and he was more shaken than he wanted her to see. But from the depths of her heart she understood and present closer to him as charged the depths of her heart she understood and pressed closer to him as she gave him a long silence in which to recover himself. Twilight was coming in the windows and a fragrant night brezze was ruffling her hair against his check before she stirred in his arms. "We've got to ask-to ask Mother before-before," she was venturing to suggest in the smallest of voices in which was both mith and tenderness. when a low lauch answered her force

when a low laugh answered her from the doorway.

the doorway. "Oh, no you don't," said Mother Mavberry, as she beamed upon them with the most manifest joy. "I had with the most manifest joy. "I had done picked you out before you had done picked you out before you had been here more'n a week, honey-bird. You can have him, and welcome, if you can put up with him. He's like Mis' Peavey always says of her own jam: 'Plenty of it such as it is and good enough what they is of it.' A real Sow-horse lowe can be rid far and long stow-norse toye can be rig far and innov at a steady gait. He ain't pretty, but middling smart." And the handsome young Doctor's mother eved him with a well-assumed tolerance covering her

"Are you sure, sure you're not dis-appointed about-about that neony-girl?" demanded the singer lady, as she came into the circle of Mother Mayberry's arm and nozzled her little nose under the white lawn tie. "Le'me see," answered Mother Mayberry in a puzzled tone of vo'ce.

'I seem to understand you, but not to know what you are talking about."

"The girl to whom he gave the grad-uating bouquet with Mrs. Peavey's peony in it," she whispered, but not so low that the Doctor, who had come



A Reluctant Acquaintance

We farmer people have made a reluctant acquaintance with the automobile. The machines, however, are becoming more and more common, and now they are becoming popular with farmers, many of whom are buying them. and now they are

in the eyes with a calm radiance in over and put a long arm around them his face that reminded her of the dawn-both, couldn't hear. light ahe had seen that morning come ["Well," answered Mother Mayberry

oh, I'm very much frightenes, out in the cress with a cam back of the dawn-your Mother for not wanting me at light she had seen that morning come light she had seen that morning come still. I-I somehow, I don't scemv ery is great-or real to myself here in Pro-stile gave a young prophet look to his austere mouth. And as she gazed one end-useless now-and I'm all unlessoned and unlearned in the real around the corner of the table. "Your work is so wonderful—and hother Mayberry fairing have to feel that the hoth couldn't hear. "Well, "answered Mother Mayberry fairing have to real-and you ought to have a wife hot heartes and the crowed stath have who—" By this time she had got her case in his hands. "And though she had not expected anything dramatic from him in the

June 1, 1911

gate, with a wicked glance at him from his Mother's shoulder that brough a hurried embrace down upon them

"Children," said Mother Mayberry. as she suddenly reached out her strong arms and took them both close to her breast, "looks like the Lord sometimes hatches out two birds in far apart nests hatches out even birds and the strong the solution of the solution just to give 'em wing strength to fly acrost river and hill to find each other. Actost river and nill to nud each other, You both kinder wandered foreign 'fore you sighted one another, but now you can begin to build your own nest right away, and I offers my heart as a bush on Providence Nob to put it in."

CHAPTER IX

THE LITTLE HARPETH WOMAN OF MANY SORROWS

"This here are a curious spell of weather," remarked Mother Mayberry as she paused before the singer lady, who was still holding Martin Luther up on the broad window-sill, and with him was looking disconsolately down the Road. "June's gone to acting like a woman with nerves that cries just because she can. I'm glad all the chicken babies are feathered out and can shed rain. Them little Hoosier Mis' chicken babies are teatures on the discover isome can shed rain. Them little ideoser good pullets have already sprought to real feathers. They ain't a one of unter have lower going into the skillet no matter have bu burgry Tom Mayberry looks after when the state of the second second second some 'em. If I don't hold you and Cinde some 'em. The second se back from spoiling him with chicken-fixings three times a day he'll begin to show pin feathers hissel in no time."

"He likes chicken better than any-thing else," murmured Miss Wingate 25 she buried a blush in Martin Luihr's top-knot.

er's top-knot. "Well, wanting ain't always a rea-"Well, wanting ain't always a rea-tor's mother with a cheat the Doc-tor's mother with a cheat the doc-tor's mother with a cheat half back "But, seeing that he about half back hisself by looking at me and you at the table, I recken I'll have to let him have two chickens a day to keep un his strencth. Honey-fuzzle are a mighty satisfying diet, though light, for a growed man. Reckon we can persuade him to try a couple of slices of old ham onct in a while so as to persuade him to try a couple of slices of old ham onct in a while so as to rive a few broilers time to get legs long enough to fry?" "We can try." answered the singer lady in a doubtful tone of voice for the Doctor's penchant for young chicken was very decided.

Chicken was very decided. "Dearie me, it do beat all how some plans of life fall down in the oven," said the Doctor's mother, as she eyed Miss Wingate with her most quizzical smile quirking up the corners of her humorous mouth. "Here I put mydif to all manner of travhise to on out into to all manner of troubles to go out into to all manner of troubles to go but line the big world to get a real managing wife for Tom Mayberry and I might wife for Tom Mayberry and I might just as well have the cross-handed and waited for Susie Pitter Bitter Better to arrow up to the spoiling of him. I thought seeing you had you mouta and handed life on a fringed napkin, so to speak, you would make him stand around some, but for all I can see you're going to make another Provi-dence wife. Ain't you got none of the suffering-women new notions at all'

delice wife. All t you got none of the suffering-women new notions at all?" "I can't help it." answered the sing-er lady, ducking her head hehind Martin Luther again, but smiling up out of the corners of her eyes.

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There is only which we may a success in any deavor without poverished spir That is that w our whole hear and strength an One of that we become template and m God carnestly a divine attribute to Him for the with open face the glory ("ch fare changed in from glory ("a glory ("a bette by the spirit of thians iii :18.) warned not to world"—that is of this world— ed by the ren (every time we to God we rene may prove wha ceptable and po (Romans xii:2.-

"It is a great writes Ralph W become like the plate. If we co that are true an we grow in the we contemplate as gold or silver souls, our natur become like th robbed of their grander qualitie person or pictu you will quickly Merely nature thought he was he finds himself possessing his v sesses him. Ha sesses him. Ha accumulation of choose; but bea you are able to will make you and you will ro better things in That is why (

ed those who w to long after knew that the thoughts on the or the gaining would by a ve think less and le der that we mig He told us pla serve two maste hate the one ar the other. Ye of mammon." (St. This does no

not be sincere great wealth. F to say that God us all have weal us all have wear souls could w temptations that der to our own ourselves up to s hardly shall they ter into the kin Luke xviii:24.) mands that we sl most, that we sh only is the give every perfect g and that all that trust for Him. be willing to g thing we have th for it. knowing for it He purpo thing infinitely h sires us to be "I have learned therewith to

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access in any fine of human 'en-deavor without danger of being im-parershed spiritually in consequence, that is that we shall love God with aur whole heart and mind and soul and strength and our neighbor as our-selves. One of God's greatest laws is that we become like whatever we con-remplate and most desire. If we love God carnetly and long to possess His with event of the second strength and the other second like whatever we con-remplate and most desire. If we love God carnetly and long to possess His with event (if the behavior of the second of the second like whatever we con-lime for the behavior of the second strength of the second like whatever we con-ender (if the behavior of the second of the second like we have the second like we have whether the second like we have the second of the second like we have the second like we have the second like the second like we have the second like the second like we have the second like the second like the second of the second like the second like the second of the second like the second like the second of the second like the second like the second of the second like second like the s

hat are true and noble and elevating, we grow in the likeness of these. If we contemplate merely material things as gold or silver or copper or iron, our souls, our natures and even our faces. become like them, hard and flinty, robled of their finer and better and grander qualities. Call to mind the person or picture of the missic, nuc-Marely nature's great law. He hough the was going to be a master : he finds himself the slave. Instead of possessing his wealth, his wealth pos-sesses him. Have as your object the accumulation of great wealth, if you choose; but bear in mind that, unless you are able to get beyond self, it will make you not great, but small, and you will rob life of the finer and better things in it." That is why Christ never encourag-ted hose who would be His followere to long after cantiby rewards. A his houghts on the accumulation of wealth or the gaining of honor or power.

or the gaining of honor or power. would by a very law of his nature think less and less about God. In orthink less and less about tool. In di-der that we might make no mistake, He told us plainly, "No man can serve two masters: for either he will hate the one and love the other: or

The deal of planing to the other with the period of the deal of the other of the deal of the deal

The Upward Look Where Success Lies No. 10. There is only one condition under which we may expect to attain worldig success in any line of human experiment of being poverished spiritually in consequence poverished spiritually in consequence the we shall action to be for the successful is to always and ever do Cod's will. If it is this will that we shall action to mean the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and ever the construction of the successful is to always and the successful is to always an that we shall continue in poverty and obscurity, we must learn to say glad-ly: "Thy will be done." With Ade-laide Proctor we must be willing to say

"I do not ask, O Lord, that life may be A pleasant road; I do not ask that Thou wouldst take

from me Aught of its load.

I do not ask that flowers shall always spring Beneath my feet, know too well the poison and the

sting Of things too sweet.

For one thing only, Lord, dear Lord.

I plead

I plead: Lead me aright, Though strength should falter and though heart should bleed, Through peace to light," H N -I.H.N.

.... A Back-Saver on Scrub Day

Mrs. L. C. Smith, Peel Co., Ont. Why do we women folks continue in the old back-breaking method of



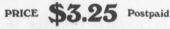
habit of cutting hay with a \$1.75 into a pail. The floor can be made seythe, while he, my hushand, con-qute dry with this rubber, and the solution of the set of th



erial, it is made from a very fine French Lawn and comes in white only. The lawn is fine and lustrous, a quality found only in the highest priced lingerie dresses. The waist is formed in a very neat fashion of pin tucks, Valen iennes, also a small panel of Swiss embroidery, sleeves and back trimmed and finished the same, with edging of Valenciennes lace on cuffs and collar.

The waistband is formed with five rows of pin tucks with Valenciennes lace top of pin tucks and under. From the waistline the skirt is made in nine gores below the waistband to the flounce. This insures a perfect fitting skirt over the hips, giving a soft, clinging effect to the upper part of the skirt. Above the row of Val, insertion, which divides the top part of skirt from the flounce are five rows of pin tucks, and at the bottom of flounce there are eight rows of wide tucks 3/4 inch each.

There is a character about this neat dress that will distinguish if from the gaudy low priced garments so deceiving in many illus-trations. The illustration showing this model is perfect and truthful, and can be placed in the class that will only be found in the most exclusive wearing apparel stores of New York and Paris. Note the sizes. White only.



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FARM AND DAIRY

Women and the Dominion Grange

Miss Kate McKay, Ceres Dominion Grange

The question has been asked, what part can women take in the Grange and of what benefit may the Grange be to them? My answer is, the Grange is an Agricultural Educational Organization. Any woman interested in farm work should have no hesitation in joining the Grange. She may there exert an influence that will greatly help in elevating the stan-

We want to help you to make it bright and prettier. Let us tell you how. The greatest beau-tifier and preserver for house and home is paint. We mean

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illustrating New Yorks latest nodels, and samples of the very newest materials for the start start of the start s



dard of country life. She can by reg-ular attendance encourage and streng-then the hands of the officers and can assist in preparing the programme. sordid than "Kob Roy" imputes to the function of the strength of the strength of the strength of the And the nany woman can come to the function of the strength of the

And the nany woman can come to the Grange prepared to take part in it, or listen intelligently, while others discuss important questions. She can give an occasional social night, with refrehments and a cheery impromptu programme. The possibilities of the programme. The possibilities of the Grange for a woman are limited only. by the ability of the woman.

There are many advantages to be gained from being a member of the Grange. Through it we become better acquainted with our neighbors and by discussing topics of mutual interest we are mutually benefitted. The Grange meeting affords a pleasant break in the week and anxiously we await our meeting night. In the Grange there is a frank good fellow-ship to be found in no other place. There is no time for gossip or scandal —we are Sisters and Brothers, in doed and truth deed and truth.

It is surprising the talent we find in the Grange where little or none was expected; those that a short time since were afraid of the sound of their own voice have learned to speak and

to speak to the point. At our Grange meetings our minds are refreshed and our hearts are warmed and we can truly say, it is good to have Leen here.

********************** OUR HOME CLUB THE PASTOR'S VIEWS ON RECIPROCITY

sponsible for the maintenance of omes are just now interested in the justion of how the proposed uestion of how the proposed reci-procity deal with the States will affect he prices of food stuffs. At present it is not an easy solution, as opinions vary. Some hold that if the proposal is adopted, the cost of living will be ncreased by a proportion amount, as cheese, butter, eggs, live stock and wheat will pass over to the American market, thus leaving less for the home market market, thus leaving less for the home market, and increasing values corres-pondingly. On the other hand some stoutly maintain that it is by no means certain that if the products are sent across the line it will enhance prices of what remain to Canadian consum-ers, and that we shall be able to get tris, and that we shall be able to get fruit, potatoes and other vegetables from the States much earlier than we can produce them, owing to their more southerly latitude, and the presence of these will lower prices of the native products when they are put on the market later.

products when they are put on the market later. This practical issue aside, however, most of the heads of Ganadian homes will be found in accord with the present proposal of free trade of which the present proposal of free trade in nat-present proposal of free trade of har manufacturers. Not content with the manufacturers. Not content with the large profits they were enabled to make formed combines in nearly every line of manufactured goods in the counor manufactures goods in the fact in saying that oatmeal, salt, flour, bacon, rubber and cotton goods, paper. bacon, tubber and cotton goods,paper, biscuits, canned goods, sugar, coal oil, cement, are in the hands of com-mercial combinations, who exact every cent possible from the consumers of these necessaries of life.—"The Pas-tor."

COUSIN IVAN'S VIEW

Surely "Rob Roy" was not sincere his denunciations of the Canadian 20th 2 standard and a standard and a standard and a standard and a standard a

June 1, 1911

them f I think so. There are many reasons why our country girls desire to learn a trade or profession, and I think the writer in question is very far astray when he suggests that for the most part it is the mercenary spirit which prompts the mercenary spirit which prompts mode many profession and the count good many profession simply for the more their profession simply for the more there was in it. Some have been prompted by one ambition to bronge

their protession simply for the momen-there was in it. Some have been prompted by one ambition to become a star in their particular profession; others have wished to help father and mother; still others have only had a desire to be independent.

desire to be independent. As a rule our girls do not want to be dependent upon father for all time, nor yet be forced to take the first "chance" that comes along for feat they never have another one, and they train for nurse, teacher or mil

they train for nurse, teacher or mil-liner as suits their fancy. I venture to say that if questioned, nine out of ten of those girls referred to by our friend, "Rob Roy" would

to by our friend, "Rob Roy" would own up to a desire for a home of their own, with Mr. Rightman, as pariner, but not Mr. Wrongman. According to the writer's way of thinking, the difficulty likes right here. Our writs have their ideals. The mo-ther love and marry must have such and such traits of character, and as new or whether the such as long as that ideal is not above reach of mortal man, who shall say they are not justified in remaining true to that ideal. All honor to them I say for wish-Ideal. All honor to them I say for wish int to prepare themselves to battle with life alone, rather than with one for whom they have not the deepest and sincerest respect. For without the truest love and respect, marriage is not at all ideal. It becomes merely a matter of bargain and sale.

If our young men want our best girls let them study to come up to the standard set by those girls .- Cousin Ivan.



HELPS IN WASHING

Pinning clothes systematically on the line is simple and convenient but requires a little care and forethought. requires a little care and forethought When rinsing the olothes, method and order solve the problem of every thri-ty woman's work. Clothes neatly and systematically pinned on the line is a feature of beauty which attracts the eye of every orderly woman. Sheets and pillow cases pinned in ro-tation come first and next in order come to within and all sheed garments the same. There is cor-tainly something attractive when something attractive clothes are well arranged on a line gentlemen's and ladies' wear separate. This is in keeping with a well-ordered household .--- "Country Girl."



Cypress Lumber, and built to Made o st a life t Easy to will work Runs on Ball Bearings anything from handker wash anything lankets. in the same when you can do it with half the labor all Bearing Washer.

J. H. Connor & Son OTTAWA, ONT.

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lune 1, 191

Our Day

It will likely we boys electric power, labor-saving ma the cartoon her forget the fact derful progress some parts of ing the past ing about th ing about th the farmer's id and before the som out into t it will probably veryday occurr such as are gr the cartoon, bei gressive farms power being s agency of the

Commission. Once we hav farm it will c strong factor in girls on the farm but few of us w but rew or us w but we do not 1 and have only a Much of the m on many farms much more int

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Our Day of Electricity

Is will likely be some time yet be-fore we boys on the farm will, by electric power, be running all of the labor-aving machines, illustrated in the cartoon herewith. We must not forget the fact, however, that won-derful progress has been made in some parts of Western Ontario dur-ing the past year towards bring-ing the past year towards bring-the farmer's ideal power-meted in y and hefore the boys of to-day blos-tom out into the men of to-morrow it will probably be a commonplace, cerergiay occurrence to have machines It will likely be some time yet be it will probably be a commonplace, erryday occurrence to have machines such as are graphically depicted in the cartoon, being run on many pro-gressive farms by electricity, the power being supplied through the agency of the Hydro-Electric Power Commission.

Once we have electricity on the farm it will contribute as another strong factor in keeping us boys and strong factor in Keeping us boys and girls on the farm. As a rule there are but few of us who dislike hard work, but we do not like to work long days and have only a little to show for it. Much of the machinery to be found ou many farms make the farm life much more interesting than it used

to be, and everywhere we begin to facturing cities. In such a compari-see that a farm is really a great big son the farm must come out ahead factory with mechanical possibilities when it comes to choosing one or the as great as big plants in the manu-



Ah Boys ! Just Wait Till We Get Electricity on the Farm

(21)

569

pure air to breathe, pure water, pure food and independence. When electricity comes into use on

when electricity comes into use on our farms the transformation caused in many farm homes will be qute wonderful and the girls will find a new interest in the farm home. With new interest in the farm home. With a small electric motor and the electric current to drive it the washing ma-chine, the sewing machine, the oream separator, churn and the ice-cream frezzer and also the vacuum cleaner may all be run by this new power; and then there will be no more coal-cal lamps to cleam since the incan-cil lamps to cleam since the incan-cil lamps to cleam since the incan-perior, will come into communus au-no one with electricity available would want to use oil hame. would want to use oil lamps.

...

Before too Late

The tender words unspoken,

- The letters never sent, The letters never sent, The letters never sent, The wealth of love unspent— For these some love unspent. For these some loved ones wait; So show them shat you care for them Before it is too late.
 - ...

Of Course?

"Uncle John," said little Emily, "do you know that a baby that was fed on elephant's milk gained twenty pounds in a week?" "Noneemae! Impossible?" exclaim-ed Uncle John. "Whose haby was it? "It was the elephant's baby," re-nlied little Emily.



THE LOVE OF DATS

Why Normal, Active People Always Crave Oatmeal

Oats contain more body-building food than any other grain that grows. They contain more energy giving food. You know their effect on horses.

more energy giving food. You know their effect on horses. The southan more organic phosphors provide the souther of the souther of the trains main constituted the souther of the component of the entire nervous system. That swhy workers love oatmeal. That's the souther the souther of the souther of the souther on the souther of the souther organic souther of the so

Made in Canada 0 ----- 0

Baby's

for Baby-best for you.

Own Soap

Albert Sonps Limited

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Mfrs., Montreal. D511

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Made of specially purified and re-fined vegetables oils. It will not hurt the most delicate skin.

Refuse all substitutes.

PLEASURE AND COMFORT

are derived from the

Stratford

Lawn Swing

For the children in the summer there is nothing will give them more pleas. are than a lawn swing. For adults, a wing on the lawn provides a means of comfort and rest

This swing is made of well seasoned hard wood here, slicely finished its is made strong beer the season of the great strain, is built for four 1 season gres. The back can be adjusted and the foot rest raised so as to form a harmock or leed. Made in various sites at different prices.

Write to-day for illustrated cata-logue M.

THE STRATFORD MFC. CO., LTD

STRATFORD, ONTARIO

also make all kinds of Ladders and Verandah and Lawn Furniture.

Juk Boles's

FARM AND DAIRY

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Home Improvement

Mrs. L. K. Shaw, Welland Co., Ont MIN. L. A. Shair, Welland Co., Ont. There is alluring beauty in a well kopt lawn. When I go to the city and see the care that city people take of their little 10 by 10 lawns, it seems to me that surely the average farmer ought to invest in a lawn mess a for his lawn, which is 100 mess a for his lawn, which is 100 A few years acon yea moil \$8 for a A few years acon yea moil \$8 for a

A few years ago we paid \$8 for a lawn mower, and its work, although often hard to find time to do, has been a great source of satisfaction to us. At first we used it on the lawn while the lawn was in a rough condition. It made such an improvement in the appearance of our home that we im-mediately started to make mediately started to make greater improvements. We levelled in the hollows, laid out walks, and event-ually we were planting shrubs. We trace all this improvement to that \$8 invested in the lawn mower. The satisfaction that we get out of the satisfies that we get out of the lawn in summer afternoons and even-ings is well worth the work it takes to keep it in order, and my husband says that the lawn has added im-mensely to the value of the farm.

We are told that city people live more out of doors than do country people, that the country woman is really in the house more than her city cousin. I believe this is because there is really nothing in the sur-roundings of so many farmhouses to induce the women to go out of doors. induce the women to go out of gools. Had we attractive lawns there would be more inducement for us to spend more of our time outside and the health in country homes would be much improved.

THE COOK'S CORNER ******** Recipes for publication are requested. Inquiries regarding cooking, recipes, stc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Ont. ****

PINEAPPLE JAM

Grate your pineapple; to one pound of the apple add three-fourths of a pound of loaf sugar; boil ten min-

CHOCOLATE PUFFS

One pound sugar sifted, one cup of chocolate chopped very fine; mix to-gether; beat the white of an egg, and stir in your chocolate and sugar; con-tinue to beat until stiff paste; sugar your paper, drop them on it, and bake in a slow oven.

COCOANUT PIE

One and one-half pints of milk, six eggs, one cocoanut, three cups of sugar, one-half cup of butter; mix sugar and butter, then the eggs, then the cocoanut, and lastly the milk.

LEMON TARTS

Mix well together the juice and MIX well together the juice and grated rind of two lemons, two cups of sugar, two eggs, and the crumbs of sponge cake; beat it altogether until smooth; put into twelve patty pans, lined with puff paste, and bake un-til the crust is done.

RHUBARB JAM

BRUBARB JAM Cut into pieces an inch long, put a pound of syrup to every pound of rhubarb, and leave till morning; pour syrup from it and boil it till it thick-ens; then add the rhubarb and boil gendly 15 minutes; put up as you do currant jelly in tumblers; it will keep good a year.

To make bread and pastry take on a beautiful brown without overcook-ing, burn a little sugar on the bot-tom of oven on baking day. I dis-covered this in baking, after the juice from berry pies had burned.

... Don't salt meat before the cooking. $\Lambda^{i}d$ it after the meat is cooked, or when nearly done.

******************* The Sewing Room Patern 10 cents each. Order by number and size. If for children, sure for value, and wals users or skirts. Address all orders to the Patern Department. Noosoooooooooooooooooooooo SIX GORED SKIRT FOR MISSES AND SMALL WOMEN, 73'7 The six gored skirt

The six gored skirt is one much liked. It is smart, it is simple, and it is very generally be-coming. This one is designed for young girls and for small women women. The 16 year size requires 5 yards of material 27 inches wide, 3½ yards 36 or 2% yards 44 inches wide. This pattern is cut n sizes for misses of in sizes for misses of 14, 16, and 18 years of age

FIVE GORED SKIRT, 7018

The five gored skirt always is a useful one. This one allows of many pos. sibilities. In the il-lustration, it is fin-ished at the natural waist line and closed at the left of the front, but it can extended above the waist line if pre.

the waise line if pre-ferred. For a woman of material 27, 5% yards 3 or 4 yards 4 inches wide when material has figure or nap, 5¼ yards 27 inches wide when ma-torial has neither.

This pattern is cut in sizes 22, 24, 26, 28, and 30 inch waist measure.

BLOUSE WITH PEASANT SLEEVES, 7016 The blouse that is made from border-ed material, is much ed material, is inten seen this season and is very attractive as well as practical. Il-lustrated is one of the best models. Medium size will require 2¼ yards of the require 2% yards of bordered material 20 inches wide, with % yard 36 inches wide for the shoulder portions; or 2 yards of tions; or 2 yards or plain material 27, 1% yards 36 or 44 inches wide. This pattern is cut in sizes 34, 36, 38, and 40 inch bust mea

CHILD'S COAT. 7838

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big collar, is terials

years of age the coat will require 3 yards of material 27 inches wide, 21 yards 36 or 1% yards

of age

June I, IGII

Good Gate

Flour that has grown old can be used effectively and well by slifting several times and putting it into shallow pans and browning it well is a hot oven. Such flour is especially good for fruit cake, ginger bread a hot oven. Such flour is especially good for fruit cake, ginger bread spice cake, brown bread, and a kinds of dark gravies.



The first Brownie made 21/4 x 21/4 pictures and sold for a dollar.

It was made so well that the inevitable happened. Other and bigger Brownies for bigger people simply had to follow. They are made in the Kodak factories under Kodak superintendence by Kodak workmen. Habit with these people means honest workmanship. That's why the Brownie, a low-priced camera, has been and is a success.

CCSS. The No. 2a Folding Pocket Brownie is a truly pocket camera daylight, with Kodak film earth-daylight, with Kodak film earth-daylight, with Kodak film earth-daylight, with Kodak film earth-ter and the second second second ter and the second second second ter and the second second second ter and the second second second positive two tripod and and second positive two tripod and the second positive two tripod and the second positive two tripod and and second positive two tripod and the second tripod and the second tripod and the second positive two tripod and the second positive two tripod and the second positive two tripod and the second tripod and tripod and the second tripod and tripod and the second tripod and tripod and tripod and the second tripod and tri

Illustrated Catalogue of Kodaks and Brownie cameras, free at the dealers or by mail



June 1, 19

F H. Ralph S If a man has

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many communities to warrant their use especially in the face of oppor-tanties to employ steel gates costing less in the long run. The breeder whose \$300 pure-bred stat made his way through an old making or value that and de-the will fix up gates without further lewill fix up gates without further lemingers. Hundreds of costly acci-dents and complications in the con-dect of a breeding farm are traceable to gates that fail of their duty. "if" it had

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Neat and Attractive, Yet Strong and Serviceable

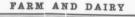
Inefficient, Unsightly and always a Nuisance

2 Stock Bulls, both unexcelled in breeding

4 Yearling Bulls, all fit for service (2 im-

10 Bull Calves, from 2 to 9 months old

Every Animal Over 6 Months, Tuberculin Tested





ROBERT HUNTER & SONS, Owners Maxville, Ont

(23)

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POSITIVELY NO RESERVE ANDREW PHILLIPS, Auctioneer, Huntingdon, Que.

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and individuality

MARKET REVIEW AND FORECAST

Toronto, Monday, May 29-The wheat have given rise to large orders for fall erop of Western Canada in 1911 will be delivery. Reviewing the market for farm produce, vice.president of the Canadian Pacific Railway. The western wheat erop is the horse, potatoes and ges are farm, but darry preducts under the influence of affects to a large extent the prosperity affects to a large extent the prosperity of Canada as whole. An increase of over 50 per cent, in the western erop will even incan large amounts of monory in circular mean large amounts of money in circula next winter.

Trade has been somewhat slow the past week owing to excessive heat. In some lines, however, prospects of good crops



VALLACE B. CRUME DATA BARANCE AND A CONTRACT OF A CONTRACT

AYRSHIRES

AYRSHIRE BULLS A TRUCTURE all ages up to one year bree fit for immediate service, all from B.O.F. stock. Write for prices. JAMES BEGG, ST. THOMAS, ONT. R.R. No. 1



would like to purchase York-shire Boars, Chester White Boars, Ayrshire Heifer Cal-ves, and Holatein Heifer Cal-ves from 6 to 8 weeks old. Write Circulation Manager FARM AND DAIRY Peterboro, - - Ontario

giving prices and ages of animals

WHEAT

The wheat market continues strong this week, and a net gain of three-quarters of a cent is recorded. The closing price or 99c last week dropped to 99c on Tuesday 99c last week dropped to 99c on Tuesday owing to favoring rains in Western Can-ada, but the market recovered remark-ably the following day due to a sharp upturn in prices in Chicago. Heavy buy-ing to cover shorts was the largest factor in Increasing prices. Reports of hot, dry an influence in N Vestern Battes also had an influence in N Vestern Battes also had an influence. No. 1 Northern is quoted at 99%c; No. 2, 97%c; No. 3, 95%c. On-tario wheat is dull. Offers have been at Sc, but no sales are reported. Export and local demand are both dull. Prices are nominally unchanged at 85c to 86c outside for Ontario winter wheat, and 85° to 87c on the Farmers' Market; goose wheat, 82c.

COARSE GRAINS

Trade in coarse grains has been very hull. Small decreases in oats and corn ire recorded, but there is very little rading in any line. The lower grades of oats are in best demand. Quotations are recorded, but there is were little trading in any line. The lower grades of outs are in best demand. Quotations are as follow: Oats, Canada Western No. 2, Yo outside: 30% on track from the No. 2, Yo outside: 30% on track from the track little for the off: feed, 55 to 37%; and here when the first off the track of the here when the track of the track of the here when the track of the track of the here when the track of the track of the here when the track of the track of the here when the track of the track of the here when the track of the track of the here the track of the track of the track of the to 40%; No. 3 loce the the mating, for to 40%; corn, 60% here mating, for the 381/c; corn. 60c; barley malting 75c to feed. 52c; peas, \$1.05 to \$1.10; buckwheat, 54

MILL FEEDS AND MEALS

MILL FEEDS AND MEALS Little can be said regarding the mar-ket for mill feeds. There is little or no trading being done. The exports to the United States mentioned hast week have ceased. Quotations are as follow: Mani-toba bran, \$21: shorts, \$25: Ontario bran, \$25: shorts, \$25: Ontario bran, \$25: shorts, \$25: Ontario bran, \$21: shorts, \$25: Ontario bran, \$22: shorts, \$22.5 to \$23:. HAY AND STRAW

HAY AND STRAW

more liberal than for several weeks, The market is casier and prives reduced, No. 1 timothy is quoted at \$21 to \$15; clover and timothy mixed \$9 to \$11; and straw, \$5 to \$6.50 on track here. On the Farmers' Market No. 1 timothy is quoted at \$15 to \$18; inferior, \$10 to \$15; straw, bundled, \$14 to \$15; lowes, \$8 to \$10. In the Eastern Townships, competition between American and Ganadian buyers continues. The local demand has been just about axilided, but large quantities and the liber of \$12, \$0, No. 5, \$9 to \$13,50; No. 2, \$5,50; to \$21,50; No. 5, \$9 to \$9,50. SEEDS liberal than for several weeks.

SEEDS

SEEDS Wholesale seed merchants are selling o the trade at the following prices: Al-ike No. 1, \$11 a bush.: No. 2, \$960; No. . \$8.75; red clover, No. 1, \$10.50; No.

Entries Coming In

During the past week, Mr. J E. Caldwell, City View, Ont., has entered his 300 acre farm in the Interprovincial Dairy Farms Prize Competition. Mr. Wm. Wightman, of Lancaster, writes that he is blanning to enter his farm, and W. F. Bell, of Britan-nic Den the enterprise farm, and w. F. ben, of that he nia Bay, has assured us that he is arranging to enter his 130 acre farm on which he keeps 55 head of dairy cattle of various ages. These three farms are all in district No. 2.

From Ontario County, Mr. S. A. Northcott, of Taunton, has intimated that he will enter the contest.

All intending competitors are urged to advise the secretary as soon as possible of their intention to take part in the competition

2, \$9.30; No. 3, \$9.40; timothy, No. 1, \$7.00; No. 2, \$6.75; alfalfa, No. 1, \$13.75; No. No. 2, 8 2, \$12.25

HIDES

There is a good demand here for hides. Prices at Montreal and Toronto are as follow: No. 1 inspected steers and cows, 10e: No. 2, 9e; No. 3, 8e; calf skins, 15c. Country stock is quoted as follows: Hides, curred, 90 to 10c; green, 8c to 9c; shee skine, \$1 to \$1.25; lambs and pelts, 24 up; spring lambs, 15c to 20c; horse hides \$3; horse hair, 32c; calf skins, 14c to 15c sheep orse hides WOOI.

More wool is being received, but shear-ing is not general yet. Washed fleece, 19e to 20c; unwashed, 13c to 14c; rejects, 15c to 16c

HONEY

Receipts of hay and straw on both wholesale and retail markets have been for to 7c a pound in tine, and 6% to 1b bar



CHOICE AYRSHIRES Are Bred at "OHERRY BANK" A few young bull calves for sale. Write for prices.

D. McARTHUR, North Georgetown, Howick Station on G. T. Ry

LAKESIDE AYRSHIRES Special offering of four young bulls, dif-ferent ages, from imported stock. Write for particulars.

LAKESIDE FARM, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop. 164 St. James St., Montrea.

'La Bols de la Roches'' Stock Farm Here are kept the choicest strains of AYRSHIRES. imported and home bred. YORKSHIRES of the best bacon types. WHITE OFPINATON. WHITE WYAN. DOTTES and BARRED ROCK Poulty.

Hon. L. J. FORGET J. A. BIBEAU, Proprietor Manag Ste. Anne de Bellevue, Que. Manager

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull salves, all from R.O.P. cows for sale. A frandson of Primose of Tanglewyld in the lot. Address WOODDISSE BROS., Tanglewyld Farm ROTHSAY, ONTARIO

THE SPRINCBANK HERD OF AYRSHIRES Contain more World's Champion mills and butter producers than any other herd in America. A few choice bull calves from record breaking dams for sale at reason-able prices. Address A. S. TURNER & SON

Ryckman's Corners. Ont 3 miles south of Hamilton.

June 1, 19 HOL WOODCRE for old Gir and 22nd. Recentl a II. S. Inspec grees and price WOODD RIFTON: ULSTER "LES CHE VAUD HOLSTEINS-W t the pail. Go

June 1, 1911

ROBERT SINTON

AYRSHIRES

HICH CLASS STOCK FOR SALE

Ayrehire cattle, all ages. Torkhire Pigs, all ages. Superior Torkshire Boar, 20 months. Clydeedale stallion, 2 years. Riandard bred filles, 4 and 5 years. Ap-ply to

RAVENSDALE STOCK FARM

A few very choice Bull Calves, out of de milking dams, and sired by "Bencheskie Che ful Roy" (Imp). Write now and secure fi choice. Females of all ages. A Commerc Hord.

W. F. KAY, PHILIPSBURG, QUE

BURNSIDE AYRSHIRES

AM LEAVING FOR SCOTLAND site ist March to make a large import ion. Any orders entrusted will be car, fully attended to. Agents there hav over 40 head of heifers and cowe bred to freehen in September.-E. H. NESS HOWIOK, QTE.

STONEHOUSE STOCK FARM

SUNNYSIDE AYRSHIRES.

Imported and home bred, are of the holcest breeding, of good type and have even selected for production THERE oung bulk dropped this fall, aired by send as a for Good time - 2664(-(imp) s well as a for Good time - 2664(-) or sale. Write or come and see, our sele as a set of the factor of the selection of the se

J. W. LOGAN, Howick Station, Que ('Phone in house.)

Is the home of most of the coveted honors at the leading eastern Exhibitions, including

first prize old and young berd. FOR SALE a few Choice Young

HECTOR GORDON.

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Cows, also Bull Calves.

They combine duction. Bull and Heife DR. HARWOOD, F

Elmda

Are bred with a ation as well as stock of that cl dence and perso MONRO & LAW THO

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Offers somethin of De Kol Plus, of formance cow of of Pieterje Heng from official dam A. D. FOSTER,

Cows 12 to 20 Holstein

cash price with BOX 317. C

HOLST

For Sale-Bull ing 83 lbs. of mill ter fat, sired by Kol. Bargain for son, Campbellfore station).

BULL CAL

Grandsons of 3 tiac Korndyke a of Hengerveld De

A. A.

Lynden

Am offering bul sale, all ages from as 87 lbs. a day, lbs. butter each cows, and testing Write for particu SAMUEL LEMON

FOR SALE-KNI SHIRES, 3 Boar in farrow, and

either sex .-- C.



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SUNNYSDIE HOI all ages.-J. M. J Quebec

CLYDESDALE HOI TLE-Large Sel Prices reasonabl Breeders and In

EDGEMONT HOI WORTHS-Young good, prices rea Kenzie, Thornhil

HOLSTEINS AND also S.O.W. Leg sale at any tim dale. Ontario. YORKSHIRE ANI Plymouth Rock Dynes, 434 Parks

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HOLSTEINS WOODCREST HOLSTEINS

A few choice Bull Calvee A faw choice Bull Calves for sale; six to ten months old. Sons of Homestead Girl De Kol Sarcastic Lad, and grandsons of Pietje 20nd. Recently tuberculin tested by a R. S. Inspector. Write for pedi-grees and prices.

WOODCREST FARM RIFTON; ULSTER CO., - - NEW YORK

"LES CHENAUX FARMS"

ULLS UNETRAVA FARMS VAUDREUIL, QUE. HOLSTEINS-Winners-in the ridg and at the pail. Gold Medal herd at Ottawa Wair. They combine Conformation and Production. Bull and Heifer Calves from our win-

DR. HARWOOD, Prop. D. BODEN, Man. E-0-#-184-11

Elmdale Holsteins

Are bred with a view to correct conform-ation as well as heavy production. Young stock of that class for sale. Correspon-dence and personal inspection solicited. MONRO & LAWLESS, ELMDALE FARMS THOROLD, ONT.

SUNNYDALE

Offers something good, two grand sons of De Kol Plus, Champion Record of Per-formance cow of 1910, also two grand sons of Pieterje Hengervelds Count De Kol, from official dams at low prices. A. D. FOSTER. • BLOOMFIELD, ONT.

Cows Wanted

12 to 20 Holsteins, due to calve. Lowest cash price with particulars, free on rail. BOX 317. COCHRANE, ALTA.

HOLSTEIN CALVES

For Sale-Bull Calves from cows giv-ing 33 lbs. of milk por day testing 34 but-ter fat, sired by Sir Galamity Posch De Kol. Bargain for quick sale.-P. B. Nel-son, Campbellford, Ont. (one mile from station).

BULL GALVES FOR SALE

Grandsons of 30 lb. daughters of Pon-tiac Korndyke and sired by a grandson of Hengerveld De Kol from a 32 lb. cow. A. A. FAREWELL

ONTARIO

Lynden Holsteins Am ollering bulle and bull caives for sile all ages from dams milking as high as 71 los. a day, and from 224 to 23.71 lose, and testih is 74 for ful age white for particulars. Prices reasonable SAMUEL LEMON. LYNDEN. ONTARIO

FOR SALE-KNIGHTON LODGE YORK-SHIRES. 3 Boars, fit for service, 2 Sows in farrow, and several younger ones of either sex.-O. C. Kettle, Wilsonville,

rels, while strained clover honey is 10% ca pound in 60.pound tims; 5 to 10 pounds, 11c. No. 1 comb honey is quoted at \$2.25 to \$2.50 a dosen.

82.35 to 82.59 a dosen. DARY PRODUCE Continued large receipts of both but ter and cheese make a further decline in prices luminent. Although gnotations past week, no actual reductions have on curred. Creamery prints are quoted at lie to 32s; solids, Ris to 12s; dairy prints; Ifo to Ba; inferior, Bs to 16s; old cheese large, 44s; wins, 143;c; now, large, 15;c; twins, 15s. LIVE STOCK.

twins, 13: LIVE STOCK. Shipments of earth to the Union Stock Yards a week ago today, numbered 2000 as compared with 3,000 the Monday pre-vious. Bidding was brisk and the yards were soon cleared. Exporters were quot ed 10 cents higher than the week pre-vious. This was scarcely to be expected, second the start of the second second end of the start of the second second end to the start of the second second end to the second second second second ends the second second second second ends the second second second second made computers and second second second terms There was however, astrong the cattle were also in strong demand, a few the second second second second second term Montreal and Winniper. Butcher cattle were also in strong demand, a few the second second second second second the were second second second second out, the week on rather light receipts on the coint grant second the second time as second s

82.50. Milch cows were in good demand, but week previous. Choice milchers were solt week previous. Choice milchers were solt as 450 to 830, and from that down to 830 week previous. Choice milchers, were solt as 450 to 830, and grant and a solt and a solt of a solt and a solt of a solt and a solt a

Hogs are again back to the \$6 mark Receipts the past week were stinted.

MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE.-Boars and Sows for Sale. J. W. Todd, Corinth. Ont. Maple Leaf Stock Farm.

HOLSTEINS AND TAMWORTHS

FOR SALE-Seven bulls from 5 months to 15 months; 65 pigs either sex, all ages; write for prices. Phone in residence con-nection via Cobourg. BERTRAM HOBKIN, The Gully, Ont

TAMWORTHS AND SHORT HORNS FOR SALE

and packers took up all offered at an average price of \$6 f.o.b. shipping points, and \$6.30 on the market.

and 8.36 on the market. At Montreal cattle have been stronger the past week and prices show an aver-age advance of 15 ca ewt. Choice sterms are selling at 85.69; good, 85.69 to 86.25; fair, 85 to 85.53; and common, 84.25 to 84.75. As high as 85.50 to 85.75 is being paid for choice bulk. Lower grades sell down to 84 to 84.56. Butcher cows of best quality well at 85.25 to 85.50; and inferior ones at 85.75 to 84.

Interior ones at \$3.75 to \$4. Offerings of sheep and lambs were light and the market continued steady at last week's quotations. Old sheep sold at \$4 to \$5 and spring lambs at \$5 to \$6 each. Calves brought from \$2 to \$6 each ac-cording to size and quality.

EXPORT BUTTER AND CHEESE

cording to size and quality. EXPORT BUTTER AND CHEESE Montreal, Saturday, May 27.—Prices in the country for cheese are still decining, and this past week has seen the lowest prices paid for Ontario checke for some time, it being over two years since 10% over generally accepted for finest Brock this was the ruling prioritized the source between the source of the source of the country of the source of the source of the prices paid for the source of the source of the prices paid of the source of the source of the prices paid of the source of the source of the prices paid of the source of the source of the prices of the source of the source of the source of the prices of the source of the source of the source of the prices of the source of the source of the source of the here a large proportion of the offer however, is 10%, the market generally here the source of the source of the source of the here of the source of the source of the here of the source of the source of the source of the the source of the source of the source of the here of the source o

Inst year. The market for butter is slowly but steadily settling down to the level at which a demand for export to Great Britain may be calculated upon, in fact, 200 or 300 packages have been shipped this week, and on a basis of 20e at the factories, we may look for a good general demand. Prices at the factories this week have ranged from 30% to 126 a lb.

MONTREAL HOG MARKET.

MONTIREAL HOG MARKET. Montreal, Saturday, May 27...-The market here for live logg was weaker again this week, and recorded a further de eline of 25c a ext. At the lower level there was a good demand and the offer ings were quickly cleared. There was a good demand for dressed hogs at \$9.50 to \$9.75 a evt. for fresh killed abhation stock. stock.

CHEESE MARKETS

Farnham, Que., May 22 .- Nine factories offered 271 boxes of butter; all sold at 20%c.

offered 27: boxes of butter; all sold as 20%.a. Campbellford, May 23--Eight hundred and forty boxes offred; 53 sold at 19%; Montreal, May 25--The Quebeo Cheese Makers' Agricultural Cooperative Society boxes 19%; 19 horas (Bettin, 20%); Jours 19%; 29 horas (Bettin, 20%); Jourse 19%; 20 horas (Bettin, 20%); Jourse 19%; 20 horas (Bettin, 20%); Jourse 19%; 21 horas, 6 horas, 19%; Perth, May 27-One hundred and ten boarded, 19%; 10 horas (Bettin, 20%); Jourde, 19%; 10 horas, 10%; 10%; Jourse 19%; 21 horas, 6 horas, 10%; Jourse 19%; 20 horas (Bettin, 20%); Jourse 19%; 20 horas (Bettin, 20%); Jourse official and ten boxes of cheese at 19%; London, Ont. May 27--Cheese sales, Education (Jourse); Horas of cheese at 19%; London, Ont. May 27--Eight hundred and fity boxes offered; 25 horas sold at 19%; 126 at 19%; St. Oathartines, May 27--Pive hundred and fity access of there boarded, and fity access of there as off at 00 taws, May 25-J78 white and 22%.

10%. When we have use of these sound at 00%. Ottawa, May 26-178 white and 227 colored cheese boarded. All sold at 19%, Cornwall, May 26-159 white and 731 colored offerred. All sold at 19%, May 26-1,010 colored cheese sold at 10%. Napanee, May 26-2,010 white and 940 colored; all sold at 10%. Picton, May 26-2,010 white and 940 to 2,010 colored, 1,577 boxes, all colored. All sold at 10% at 10%.

at 10%/c

Victoriaville, Que., May 26.-700 boxes cheese sold at 10%c.



GORDON H. MARDARD, Manhard, Ont.

Lyndale Holsteins

We are now offering two young bulls fit for service, one from a 20 hb. Junior 3 year old and sired by a son of a 23.87 hb. cow. Both bulls are good individuals light in color.

BROWN BROS., - - LYN. ONT.

LAKEVIEW HOLSTEINS

Toug buil born Jane 13th, 13th, offered. He is sired by Count Hengerreid Payne to Not, whose size Pitetrie Gengerreid to Not and the State State State State and whose dam is dam of Graue Methods and whose dam is dam of Graue Methods and state good individual his own dam is musing about the 13,000 lb. mark in is musing about the 13,000 lb. E. F. OSLER, Telephone. RRONTE

FAIRVIEW FARMS HERD

FAIRVIEW FARMS HERD —TAS FOR SALE— Bons of Pontiae Korndyks, atte 4, the form of Pontiae Korndyks, atte 4, the form of Pontiae Korndyks, atte 4, the form of Pontiae Korndyks, atte 4, the heater of seven daughters where a the vector average 31,31 bits, each, unequalide the daughters of any voltage attention the daughters of any voltage attention and any there. The daughters of any voltage attention the daughters of any voltage attention attention

HOLSTEIN CATTLE

THE MOST PROFITABLE DARY HEED Illustrated Descriptive Booklets Free HOLSTEIN-FRIESIAN ASS'N OF AMERICA *. L. HOUGHTON, SECT, BOX 148, BRATTLEBORO, VT

BUY SUMMER HILL HOLSTEINS

BUT SUMMER HILL HULSTEINS More high record cover in our herd than in any other in Canada. We have at present five heifers and cover averaging Present offering... 1 Buil Calif from a Y Ib. dam. 1 Buil Calif from a Y Ib. dam. 1 Buil Calif from a Y Ib. there year old the average of the second to the second to Have a second Builor two year old for year old for T days, and our Canadian record A year old for T days. Come and method the Son. Heilt Builton F. Hamilton. R.F.D. No 2 D. C. FLATT & SON. - HAMILTON ONT.

D. C. FLATT & SON, - HAMILTON, ONT.

MOTHERAL'S HOLSTEINS have won 16 First, 16 Second, 8 Third and 2 First for Herd's under expert judge. We have choice bull calves for sale JAMES MOTHERAL, WOLVERTON, ONT. DRUMBO STATION

RIVERVIEW HERD

Offers Bull Oalf born February 14th. 1910, Sire Sir Aaggie Beets Segis. Six dams in pedigree average 25.60 lbs, in seven days. P. J. SALLEY

Lachine Rapids, Que.

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Bit fine pure bred build advestrom two to 10 weeks old. Every one from an offic-lally tested dam. Color markings to suit every taste. Those that with Hengerreid blood secure one of Count (erborns sons. Those that with Carmen filty and Aita Best Posch, Price monthet. E. B. MALLORY. FRAMEWORD, OXT.



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YORKSHIRE AND TAMWORTH HOGS-Plymouth Rock and Orpington fowl.--A Dynes, 434 Parkdale Ave., Ottawa.

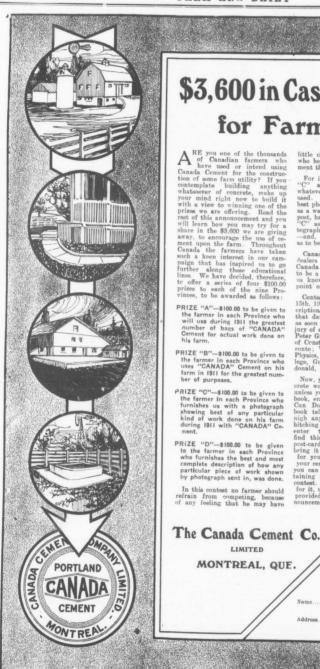
RIDGEDALE HOLSTEINS-For full partic-ulars in regard to stock and prices, ad-dress E. W. Walker, Utics, Ont.

Quebec CiVDESDALE HORSES. SHORTHORN CAT-CIVDESDALE HORSES. SHORTHORN CAT-The Control of the set shows and Recorders and Importers. Columbus, Ont. EDGEMONT HOLSTEENS AND TAM-WORTHS-TOURD stock for sail. Quality good, prices reasonable.-George H. Me-Kennie, Fronthill, Ont.

DR. LEE'S COMPOUND/ABSORBENT SPA-VIN BLISTER-Curce. Scientifically cor-rect. Write The Absorbent Spavin Blist-er Co., Toronto, Ont. ORMSBY GRANGE STOCK FARM ORMS-TOWN, P. QUEBEC. — Importation and breeding of high class. Olydeedales a specialty. Special importations will be made.—Duncan McEachran.

TANWORTH SWINE-Choice stock for sale at all times at reasonable prices. Som. Listoveck, Ont. HAMPSHIRE PIGS-Canadian Champion herd. Boar herd headers. Sows three months and under.-Hastings Bros., Cresshill, Ont. CLYDESDALES-Many by that great sire, Acme (Imp.). Write us, R. M. Holtby, Manchester P.O. and G.T.R. Station, Myrtle C.P.R. Long Distance Phone.

(26)



FARM AND DAIRY

June 1, '911

June 1, 1911

-----OUR FARM Correspon PRINCE ED KING'S LOWER MONTAC has not been one l ince Feb. 1st. Th

\$3,600 in Cash Prizes for Farmers

A RE you one of the thousands of Canadian farmers who canada Cement for the construc-tion of some farm utility? If you contemplate building anything whotaoager of concrete make up contemplate building, whatsoever of concrete, make up your mind right now to build it with a view to winning one of the are offering. Read the with a view to winning one of the prizes we are offering. Read the rest of this announcement and yeu will learn how you may try for a share in the \$3,600 we are giving away, to encourage the use of ce-away, to encourage the use of canadapoint of the farm. Throughout Canadapoint farm. Throughout Canadapoint farm are taken paign that has inspired us to no further along those educesions! further along these educational lines. We have decided, therefore, lines thes. We have decided, therefore, to offer a series of four \$100.00 prizes to each of the nine Pro-vinces, to be awarded as follows:

- PRIZE "A"-\$100.00 to be given to the farmer in each Province who will use during 1911 the greatest number of bags of "CANADA" Cement for actual work done on his farm.
- PRIZE "B"-\$100.00 to be given to the farmer in each Province who uses "CANADA" Cement on his farm in 1911 for the greatest number of purposes.
- PRIZE "C"-\$100.00 to be given to the farmer in each Province who furnishes us with a photograph showing best of any particular kind of work done on his farm during 1911 with "CANADA" Cement.
- PRIZE "D"-\$100.00 to be given to the farmer in each Province who furnishes the best and most complete description of how any particular piece of work shown by photograph sent in, was done.

In this contest no farmer should refrain from competing, because of any feeling that he may have

LIMITED

MONTREAL, QUE.

little chance against his neighbor who he thinks might use more ce-ment than he does.

For it will be noted that Prizes "C" and "D" have no Learing whatever on quantity of cement used. The man who sends us the best photograph of so small a thing best publicity of as small a thing as a watering trough or a hitching post, has as much chance for Prize "C" as a man who sends a pho-tograph of a heuse built of cement --and, the same with Prize "D" as to best description.

Canada Cement is handled by canada Cement is handled by dealers in almost every town in Canada. Should there not happen to be a dealer in your locality, let us know and we will try to appoint one.

Contest will close on November 15th, 1011, and all photos and des-criptions must be in our office by that date. Awards will be made as soon as possible thereafter. The jury of award will consist of : Prof. Peter Gillespie, Lecturer in Theory of Construction, University of To-ronto; W. H. Day, Professor of Physics, Ontario Agricultural Col-lege, Guelph; and Ivan S. Mac-donald, Editor of "Construction."

donaid, Editor of "Construction." Now, you cannot hope to do con-crete work to the best advantage unless you have a copy of our free book, entitled, "What the Farmer Can Do With Concrete." This book tails how to construct well-nigh anything on the farm, from bitching post to silo. Whether you enter the contest or not, you'll find this look most helpful. A post-card asking for the book will bring it to you promptly. Sond for your copy to-night. From your cannet dealer or from us, you can obtain a folder con taining full particultars of contest. If you send to us for ft, use the coupon provided in this an nouncement. nouncement.

The Holstein bu Ont., is a sp endid He is for sale. Fe ground are very dr ground are very dr not suffered much of ground ready fo few have sown any good condition and

well. A cow owned Queen's Co. is cau citement, as it is ex-the world's record Ayrshire. Her test at the present time lbs to her credit. is going still higher is going still higher. fairly good erop. // A. Annear gave bir grown lambs. Th were never better a general this year th QUE

SHERBROOM

LENNOXVILLE, M ditions have been ve ing this spring, and vanced. With a go should have another should have another Pastures are good well If we do not in dairying it will n The price of butter or 22c. Pork is Sc ery scarce and ar us.-H. McF.

ONT

NORTHUMBERI EDVILLE.-Mr. Wa by neighbors, is may be power to pump chop is ground uated over the barn is placed directly or rods from the barn feet deep to both he



Please send me full particulars of Prize Contest. Also a copy of "What the Farmer Can Do With Concrete.

Name

Address

FARM AND DAIRY

(27)575

OUR FARMERS' CLUB Correspondence Invited Correspondence Invited Not correspondence Invited Correspondence Invited

follows: "In and Dairy as "Butter Boy Keyes 2nd was bred by me, and is a son of our old matron cow, Helena De Kol's De Kol-"-cord, 21.21 bbs. butter at 14% years. We have a full siter to this built that made 23.11 Bos. butter in 7 days at 2 years, and 21.22 Dos. at 1 we need the source of the 1 bos out of the source of the source of the 1 bos out of the source of the source of the 1 bos out of the source of the source of the 1 bos out of the source of the source of the source of the 1 bos out of the source of the source of the source of the 1 bos out of the source of the source of the source of the 1 bos out of the source of is Maggie Keyes, 26% lbs. butter in 7 days, 19,434 lbs. milk in one year as a three-year-old: Butter Boy Keyes' year-old. Butter Boy Keyes' sire is half brother to May Echo, the champion Record of Performance cow, that sold at the Belleville Breed-ers' consignment safe for the splendid sum of \$1,475. "It would be hard to find a bull of better breeding than Butter Boy Keyes 2nd.

than Butter Boy Keyes 2nd. His dam is half sinter to the three great bulls. Hengerreid De Kol, who has 115 A.R.O. daughters, and is the foun dation animal of the Pon-tiacs: Pietertje Hengerreid's Count De Kol. 95 A.R.O. daughters, two over 22 Das. butter in 7 days: also De Kol Berk, with a long list of

bush. of grain, 60 tons of hay, and 15 A.R.O. daughters, three over 30 lbs. but acres of corn. Forty head of cattle were it r in 7 days Butter Boy Keyes 2nd is wintered, mostly Hereofred, besides a inte show bull, as his site was. He is great number of horses of all ages. No gentle, a sure server, and is now four cross furross are required on the farm, which makes it easy on the machinery, -J.E.O.gentic, a sure server, and is now four years old. His daughters are just com-mencing to milk. They are good pro ducers, but none have been officially tested as yet. They are, however, very handsome and nicely marked.

Pure bred fowls, any standard variety, given in return for new subscriptions to Farm and Dairy.



SYNOPSIS OF CANADIAN NORTH-

SYNORIS OF CANADIAN NORTH-WEST LAND REGULATIONS Any person who is the sole head of a family or any mails over 18 years old, which was an end of the sole head of a person sole of the sole head of a person sole of the sole head of a person sole of the sole of the person of the sole of the sole and the sole of the sole of the person of the sole of the sole and the sole of the s



A Good Individual and of Splendid Breeding

The Holstein built, Butter Boy Keyes 2nd, here shown, owned by A. D. Foster, Biomfield, 0nt, is a spondid individual, and in his pedgree are named many of the greatest producers. He is for safe. For further information see gossip adjoining. (Adv.)

round are very dry, but the grass has his orchard. Mr. R. S. Duncan, our round are very dry, but the grass has suffered much yet. There is a lot of ground ready for seeding, but very les have sown any. Live stock are in goal couldion and earlie are milking parent 50. Is exaining considerable ex-thermet, as it is expected she will break workls record for a two-year.old yrshire. Her test began Aug. 3rd, and the present time she has nearly 10,000 is and worth with price of borses and some the price of borses and workls record for a two-year.old the works record for a two-year.old works and the spring erop was put the works the works in the spring opened by J works record the exceptionality warm s going still nighter. Lambs have been a hirly good crop. A sheep owned by J. A. Annear gave birth to four lusty, well rown lambs. The prospects for fruit rever never better and spraying is more general this year than formerly. \rightarrow G.A.A.

QUEBEC

QUEBEC SHERMOOKE Co., QUE. LENNOXVILLE, May 17.—Weather con ditions have been very favorable for seed, ing this spring, and the work is well ad-taned. With a good supply of rain we should have another year of cood crops. Pastures are good and coves are doing well. If we do not have a banner year in dairying it will not be the cow's fault. The price of butter is down around 210 tery scarce and are worth about \$1 a bus.-H. Me?

ONTARIO

NORTHUMBERLAND CO., ONT.

EDVILLE.-Mr. Wallace Dunnett, one of an neighbors, is making the wind supply he power to pump water and grind chop. the power to pump water and grand enop. The chop is ground by a large mill sit-uated over the barn. A smaller windmill is placed directly over the well about 19 rods from the barn. Piping is laid five feet deep to both house and barn. When

You Can't Cut Out A BOG SPAVIN, PUFF or THOROUGHPIN, but BSORBINE will clean them off permanently, and you work the horse same time. Does not blister or romove the hair. Will toil you more if you write. §2.00 pps bottle at d'lers or delly'd. Book tDfree 12 Mr. S. Nixon. Kilbridge, Ont., writes Jan. 21, 1910: "I have used ABSORB-INE with success on a curb."

W. F. YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD MASS. LYMANS Ltd., Montreal, Canadian Agents

ONTARIO Co., ONT. TAUNTON, May 20.—This spring opened up quickly, and the spring erop was put in in a short time. The few occasional showers with the exceptionally warm weather recently have brought along the weather recently have brought along the clover have heen badly winther killed. A good many fields have been resown to spring grains. There is an excellent show favorable weather could be a good crop of fruit. Spraying has been conducted quite extensively.—S.A.M. HIANS CO. WY.

ELGIN CO., ONT.

ELGIN CO., ONT. CALOUTA MILLS, Muy Sh.-Then wea-ther is vory warm, and everything is growing with a vin. Labor is scarce, and the farmers are obliged to work early and late, about 15 hours a day, to keep up with the rush of the season. Those who used silos for the first time last winter are well satisfied. Farms are selling at high prices. The June bugs are stilled as the price of the June bugs are stilled as the price of the day of the tees. The price of cattle and hogs is on the downward grade Horses are soaring higher in price every year. The market cannot be supplied – J.E.O.

KENT CO., ONT

KENT CO., ONT. WHEATLEY, May 25-septing was back-ward in April, bur since has turned very warm. Veretation is as far advanced as usual at this time of year. Wheat and grass ar looking fine; oasts and other spring grains are a little backward; corn planting is about as far advanced as usual. Blossom on fruit trees profuse; excellent properts for fruit-J.W.K. MIDDLESEX CO., ONT. TEVDO Now 3L-Derbona there is no

MIDDLESUX CO., ONT. TEXP(O, May 23.—Perhaps there is no ordinary farm in Canada that is better underdrained than one in this neighbor-hood, belonging to Wm. Davis. The farm consists of 176 acres, and has over 25 miles of tile, in size from three inches up to eight inches. Some of the drains are in the ground 12 feet deep. The owner is pleased with the results of underdrain, ing. Last year the farm produced 2,400



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