

VOL. XXXI.

NUMBER 40

RURALHOME

PETERBORO, ONT.

OCTOBER 3



THE HARVEST OF A PECULIAR CROP OF GREAT POTENTIAL WORTH

Rather a limited area in the older provinces of Canada is devoted to growing flax. Round about Baden in Waterloo (Co., Ont., the flax industry has been existant for many years, but no very large advancement has been made. Where the straw is to be utilized for its fibre the crop must be pulled by hand, after the fashion as shown in this Waterloo county picture, where the Indians are at work. Out in Saskatchewan, where probably four-fifths of the half million acres devoted to flax in Canada are grown, no account is made of the straw, the crop

being grown for seed, and cut with the self-binder. Some day we may expect to see more attention given to the flax crop in Canada. Prices for seed and oil rule very high.

DEVOTED TO

BETTER FARMING AND GANADIAN GOUNTRY LIFE



of gearing. Removing the body— Housing exposes the gearing and

Why You Will Prefer THE "SIMPLEX"

In preference to all other Cream Separators is because the "Simplex" ist

- So Simple So Easy to Turn So Easy to Clean So Perfect in Skimming So Quick in Separating So Pleasing in Appearance
- Self Balancing Seldom out of Repair Seon Pays for Itself

LASTS A LIFE TIME

There are other advantages in favor of the "Simplex." These are explained in our literature, which will be mailed to you free on

The ease of running, ease of cleaning, simplicity, self-balancing bowl, interchangeable spindle point, low-down supply can, the general pleasing appearance, and the perfect skimming of the "Simplex" make it the favorite everywhere it goes.

Then, too, our large capacity machines, so constructed that they turn more easily than most other separators, regardless of capacitants ity, will enable you to separate your milk in half the time. This is a great advantage it will pay you to enjoy.

> Bear in mind we allow you to prove all these claims -since "Proof of the Pudding is in the Eating.

Write to us for full particulars about the "Simplex" and our special terms to you to use the "Simplex" and represent us locally in your district.

D. Derbyshire & Co.

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

Advertisers

and Women

Convince the Women and the Battle is Almost Won

The advertising wisemen have learned that women buy or strongly influence 90 per cent of all purchases.

Especially is this true of farm women, who are in closest everyday consultation about the business of the farm.

Next issue is your opportunity to absolutely reach every woman on 17,000 dairy farms we reach.

No time to lose, send your copy at once-rushfor Farm and Dairy's

Special Household M gazine Number Published Oct. 10, send Copy by Oct. 5

(Tell us your story and we will put it in shape if you haven't time)



THE POWER OF THE FARMER AND THE AGRICULTURAL PRESS

Five years ago, when the Dominion Government was opposed to the establishment of Rural Free Mail Delivery in Canada, and when the other farm papers were saying little about it, Farm and Dairy sent one of its efficiency to Washington to wather first hand information about the system in that country. Our editor found our Government was five years behind time in its information on this subject. On his return he published a number of articles in Farm and Dairy showing the true situation. These articles attracted wide attention, and within six months the Dominion Government amounced that it had changed its attitude and purposed establishing Free Rural Mail Delivery in Canada. To-day thousands of Casadian farmers are enjoying the benefits of the service, and many of the remember to thank Farm and Dairy for it.

The Manufacturers and Loyalty

The farmers of the prairie prov-nces last week played a mean trick on the members of the Canadian Manufacturers' Association, and put their much boasted loyalty to the test by sending the following telegram, through their official organ, The Grain Growers' Guide, to the members of the Manufacturers' Association, while they were holding their annual convention in Ottawa. It was a cruel thing to do, for everyone knows that thing to do, for everyons, knows that the manufacturers are as much op-posed to increasing the British Pref-erence and, incidentally, the ties which bind us to the Mother Land, as they are to freer trade with the United This is the telearam:

"The western grain growers are anxious to know if the Manufacture ers' Association will join hands with them in an effort to bind Canada closer to the Motherland by urging the Government to reduce the tariff on British imports to one-half that charged American imports, and fur-er reducing it later until we have comete free trade with the Motherland in ten years.

"The grain-growers feel that this could be a tangible form of showing would be a tangible form of showing their patriotism, and would develop a much greater trade with the Moth-erland, and thus strengthen the ties of the Empire and show the world that Canada's loyalty to the Mother-land is deep and abiding, and not merely words. It would also show the world that Canada stands behind the Motherland to uphold the traditions of the Anglo-Saxon race and keep the Union Jack in the proud position it has held for a thousand years. Such an action would also be an undoubted proof that Canada has no desire for political union with the United States. Would you kindly bring the man r before your annual convention now in session at Ottawa and ascertain if the manufacturers present are willing to this great Imperial scheme " THE MANUFACTURERS' REPLY

The reply of the Manufacturers Association was just such a one as the farmers evidently expected to receive—it was evasive. It claimed that the telegram had been received too lat to enable such an important matte to be-given due consideration, an expressed a willingness to have conference with "any organization of organizations representative of all producers in both the east and the middle and farther west," something which they well knew would be diffcult to arrange. Many of the mant facturers laughed when the telegral was read, and President Gourlay, the Manufacturers' Association, sho ed the real attitude of the Association

when, while speaking at a banquet of the Association, he said: "The British manufacturers asket us if we would favor an increase it British preference. We told them we us if we would favor an increase British preference. We told them would not, and that the best coup for them was to cast in their lot wi us to establish branch factories Canada."

This reply shows the real selfisioness of the Association, and goes far as the farmers intended that as the farmers intended that should, to show which is the me anxious to build up the ties betwee Canada and the Motherland, and extend Imperial Unity, the farmer or the manufacturers.

Chasing the cows may be go exercise for the dog, but it's hard the milk checks.

our bull calves come along get their extended pedigrees work out and printed and struck off by one hundred. Then as enquiries e in for calves; we can send out i extended pedigrees, and save of selves greatly in the work of cor pondence and give our customers is best of satisfaction and full ks ledge of the bulls we have for si —J. W. Dimick, Woodcrest Far Ulster Co., N.Y.

Issued Each Week

Vol. XXXI

The History of under a h of fa

CATTERED ly in Ontario sands of farm farming under h

dress in on only surmounted now prosperous an Canada also there of young men w confronted with th their predecessors. like to know how t time to time Farm of some of our m mers. This time v story of Richard H Ont., Northumberl Mr. Honey, with

brothers and sister ada when he was His father purchas which Mr. Honey Honey worked with his father's death, when Mr. Hone, wa The farm was left t with it was an ol care of his widowe make certain payme bers of the family an indebtedness whi lieved at that time, by \$500 to \$1,000 th ings and equipment this indebtedness th his father's estate, Mr. Honey, with tea that he never would of the farm to pay fronted him.

FARM M Mr. Honey would to-day were it not t action and of decis continued to manage lines that had prov years before his fath likely that the predi or would have prove however, that Mr. He An editor of Farm a the privilege of look stein cattle and who succeeded through as the fellowing history the time I took char Honey, "we were rais selling grain. The

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milk was being sent

Vol. XXXI

FOR WEEK ENDING OCTOBER 3, 1912.

No. 40

STORY OF THE TRANSFORMATION OF A FARM

The History of how Richard Honey of Brickley, Oat., Northumberland County, started Farming under a heavy indebtedness. Of how he realized the need for changing his methods of farm practice. Of how he did it. Now he is the owner of two farms, and of a herd of pure bred cattle.

S CATTERED all through Canada, particularsands of farmers who, although they started farming under heavy mortgages or heavy in-

diess in one form or another, have not only surmounted all their difficulties, but are now prosperous and well-to-do. Scattered through Canada also there are at this time thousands of young men who are starting into farming confronted with the same difficulties which faced their predecessors. These young men would like to know how the older men succeeded. From time to time Farm and Dairy has told the stories

of some of our most successful farmers. This time we want to tell the story of Richard Honey, of Brickley, Ont., Northumberland county.

Mr. Honey, with his parents and brothers and sisters, came to Canada when he was 16 years of age. His father purchased the farm on which Mr. Honey now lives. Mr. Honey worked with his father until his father's death, which took place when Mr. Hone, was 31 years of age. The farm was left to Mr. Honey, and with it was an obligation to take care of his widowed mother and to make certain payments to other members of the family which totalled up an indebtedness which Mr. Honey be-

lieved at that time, and still believes, was greater by \$500 to \$1,000 than the farm, with its buildings and equipment, was worth. So great was this indebtedness that one of the executors of his father's estate, after reading the will, told Mr. Honey, with tears of sympathy in his eyes, that he never would be able to make enough out of the farm to pay off the obligation that confronted him.

FARM METHODS CHANGED

Mr. Honey would not be the well-to-do farmer to-day were it not that he has been a man of action and of decision of character. Had he continued to manage the farm along the same lines that had proved successful until a few years before his father's death, it is altogether likely that the prediction of his father's executor would have proved correct. It was just here, however, that Mr. Honey first proved his metal. An editor of Farm and Dairy who recenly had the privilege of looking over his excellent Holstein cattle and who spent a night in his home, succeeded through asking questions in securing the following history of his farm operations. "At the time I took charge of the farm," said Mr. Honey, "we were raising wheat and barley and selling grain. The cattle on the farm were grades with a showing of Shorthorn blood. Their milk was being sent to the cheese factory, the

object being to raise a dual purpose animal that would return a revenue both from milk and for beef purposes. The average production of the cows was somewhere between 2,000 and 4,000 pounds of milk a year.

"I soon realized that if I was ever going to pay all the indebtedness that confronted me, I would have to completely change my system of farming. My obligation amounted to over \$4,000. Wheat a few years before had sold for as high as \$1.50 a bushel and barley for 90 cents. At that time, however, wheat had dropped to from 70 to 75 cents a bushel and barley to 50 cents.



A Good Place for the Hogs This Time of Year

The farmer who was far-sighted enough to plow the meadows as a was off and sow a field to rape will now have a pork making ero appreciably to his returns from that field and from his hogs as a rape in conjunction with the grain feeding is an ideal condition bog production.

—Photo courtesy 3

Seiling grain under these conditions meant farming at a loss.

AN OLD-PASHIONED WAY

"The conditions that confronted me forced me to think. I saw that the selling of grain off the farm was an old-fashioned method of farming that had passed out of date with the development of the west. I realized that the west could beat us in the production of grain. I also saw that the production of grain was depleting our soil fertility and decreasing the productiveness of our farms. This was the case with our own farm at any rate.

"Having come to the conclusion that it was absolutely necessary that I should keep more stock I decided that while it might cost a little more to buy pure bred stock it would not cost much, if any, more to raise them to maturity. while the returns they should bring in, if properly looked after, should greatly exceed those from grade stock because of their value for breeding purposes. Having reached this conclusion I decided to try it and as soon as possible I purchased some pure bred sheep and pigs. I was the first man in this part of our township, if not the first man in our township, to own registered pigs and sheep.

"Realizing, also, that it was necessary that I

should keep cows able to produce greater quantities of milk, and having seen some Holsteins and watched them being milked, I concluded that I would obtain some of this breed of cattle. 1 therefore secured a pure bred Holstein bull. My first cross on our grade stock proved satisfactory, and I tried another. It gave equally as good results. This led me to get one or two pure bred females. To do this I had to borrow some money, but I did it. Within a few years I had bred up enough females that I was able to dispose of my grade cattle. By this time the milk producing qualities of my cows had so increased that I was able to sell them at \$50 to \$60 each, although ordinary grade cows were selling for \$30.

HAS ADVERTISED

"Once I had got started with my pure bred stock I found my conclusions, although there had been many to advise me against them when

I started, had been sound. Although ordinary lambs were selling at \$2.50 apiece, real good ones bringing as high as \$3, I succeeded in getting \$10 and \$12 for my pure bred ones. Before I succeeded in doing this I had seen that to sell my stock I would have to exhibit at the local fairs and also advertise. I have exhibited regularly every year since at the local fairs. Thus my stock has become well known all over this section of the country. I have advertised regularly also, and have secured buyers from a distance by my advertisements. Thus I have never had difficulty in disposing of my surplus stock at good prices.

"The purchase of the pure bred stock forced me to change my system of farming. Instead of wheat I grew more mixed grain and sowed less land, but worked it better. By this means I raised as much grain as formerly and was enabled also to grow more roots. I also grew hay and more corn than formerly. I soon found that it did not pay to sell any grain as I obtained better results when it was fed to the stock. Sometimes I have bought mill feed and bran for feeding purposes.

THOUGHT TO BE FOOLISH

"When I first went to Toronto and invested \$50 to \$60 in pure bred rams and \$30 to \$40 for pure bred boars, there were not lacking people who told me that there was little use in my trying to make money, as I went and squandered it as soon as I secured some, and that the * pure bred stock would soon put me out on the road. It is somewhat remarkable that people continued to tell me this for 10 years after I had got nicely started and was doing well with my pure breds

"The home farm comprised 100 acres. As the stock kept increasing in numbers, the need for more land became apparent, and I rented an additional 100 acres, a quarter of a mile from the home farm. The land on both farms was good, heavy clay, but very stony. I used most of the

land on the second farm for pasture for my sheep and cattle, and for the growing of some hay and grain. The home farm required a lot of stoning as well as overhauling of the fences and buildings.

INCREASED RETURNS

"The revenue of the farm soon increased after I had secured my first pure bred theep and hogs Not only did I get a good price through selling my stock for breeding purposes, but the prizes I won at local exhibitions helped out considerably. It was eight or nine years, however, before I began to get much better returns in the matter of the milk production of my cows and from the sale of breeding stock. I was fortunate in one respect in that my cows had very few bull calves. I kept the heifer calves during the first years while I was building up the herd, and therefore derived but little money from the sale of breeding stock

"The first cow I purchased proved a good one. On ordinary feed she gave as high as 73 pounds of milk testing 4.2 per cent. butter fat in a day. Every animal in my herd, excepting two, trace back to this old cow. I paid \$85 for her when a calf. The sale of her progeny during the past 20 years has brought me in thousands of dollars. A daughter of hers, and this daughter's stock, sold for \$660. I still have two daughters from a daughter of the old cow that are easily worth \$400.

MADE BUTTER

"From the start I had followed the practice of sending my milk to the cheese factory in the summer and of making butter at home in the winter. Between the twentieth of last November and the first of May, we made this year over 700 pounds of butter. This method of farming has kept money coming into the house regularly throughout the year. Mrs. Honey and I have been fortunate in that we have had a healthy family, comprising five boys and three girls. (The eldest is now only 20 years of age .- Editor.) The needs of this large family soon taught Mrs. Honey and me that it was unsafe for us to start running store bills during the winter, expecting to pay them out the next season's returns. Had we done so, we would sonn have been swamped. The sale of butter has enabled us to keep from running store bills.

LIBERAL FREDING ADVOCATED

"When I started to keep pure bred cows I realized that if I expected to secure good results from them I would have to feed them well. This I have done ever since. We have fed the cows and they have fed us and fed the pigs. During the summer we have had whey for the pigs and in the winter plenty of skim milk for the caives, and some for the pigs also. Our system of winter milk production has been one of the secrets of our success. At the season of the year when most farmers' cows are boarding at the farmers' expense, our cows each year have been feeding

"Another secret of our success has been that I have been fortunate to breed in a line. I did not start with one kind of pure bred stock and after a few years change into another, only a few years later to change back again, as so many farmers do. By breeding straight ahead I have been enable to improve my stock, and my success as a breeder has become better known each year, thereby facilitating the making of sales. I have always had great faith in what I have called the 4 C's, i.e., more cows, more corn, more clover, and more care.

"After I had been running the second farm for about 13 years, its owner required it for other purposes, and I had to give it up. When I did this I gave up breeding sheep. I have usually seeded down every two or three years. I never grew grain more than three years and never grow the same variety of grain on the same land two years in succession. I seed down often and break up often.

"For 10 years after my mother died I had to pay \$300 a year to other members of my family. It kept me jogging all that time. However, I was beginning to secure returns from my surplus stock of pure bred cattle, and the load became lighter each year.

"Of course I never would have got ahead if I had not been economical. There are some lines in which economy is not a virtue. Had I tried to economize by not buying pure bred stock I would have soon found this out. Economy, however, is often a virtue. For instance, we have made it a practise to buy our flour and sugar



A Combined Granary and Root House

A commence Granary and Root House
The building here Illustrated is built of cement
tith the exception of the roof. The lower portion
used for a root house and the upper portion as a
ranary. Mr. W. H. Miller, Jennot Co., Ont. on
root kinself. And this is just one of the many ways
which Mr. Miller utilizes coment on his farm
Miller may be seen in the lower Illustration.

and some other supplies wholesale. Economies of this natue do not necessitate any less in other directions, and they amount to considerable in the course of a year.

SPECIAL DAIRY CATTLE THE KIND

"I have never regretted my decision to go in for special purpose dairy cattle. Soon after doing so I began testing my cows, and since the establishment of the Record of Performance I have entered a number of my cows in that test. Some of them have made records of 13,000 to 14,000 pounds of milk a year with ordinary feed. One cow, Snowflake, produced 443 pounds of butter fat. Her best month's production of milk during the test was 1,464 pounds of milk. Since then she has produced over 2,050 pounds of milk in a month. I believe that the short term tests do not give a correct indication of what a cow can do. There is a temptation to force cows during the short tests when made immediately after calving. When, however, a cow produces a calf every year and still makes a good yearly record you may know that she and her stock are the kind of animals it is safe to buy.

Mr. Honey was 31 years of age when he undertook the management of his farm. He was not

married until he was 36 years of age. That his system of farming as here described has proved successful is indicated by the fact that not only has he cleared the home farm, but has recently purchased another 100 acre farm about a quarter of a mile away, which is worth probably between \$5,000 and \$6,000. Including his two farms and his excellent herd of Holstein cattle and his pure bred Yorkshire hogs we consider it a safe estimate that Mr. Honey stands to-day \$16,000 to \$18,000 to the good. He is not self-satisfied. however. He states frankly that he still has much to do. He wants and purposes putting up better buildings and making other improvements that he has long contemplated. The sucshould be sufficient encouragement to lead other young men to emulate the example he has set.

AN INSTITUTE SPEAKER OF NOTE After he had been running his farm only 10 years he was selected by the Provincial Government to go out as an Institute speaker, which work he continued for several years. He has also done considerable work for the Government as an expert judge at the fall fairs. Possibly one of Mr. Honey's greatest achievements lies in the fact that his three eldest sons. Charlie William, and Walter, are all enthusiastic about

farming, and seem determined to follow the line that he has found so successful. The next boys are too young as yet to show their inclination. but they are fond of the farm, as shown by their interest in all that pertains to it .- H.B.C.

Over-Feeding Hogs

Geo. Duncan, Ontario Co., Ont.

Overfeeding is the point on which many of us fall down in the pork business. We don't overfeed other farm animals. If the hired man is sleepy and useless, we are apt to accuse him of overeating. But when it comes to the hogs we cannot fill them too full.

A farmer living just a few farms from me went into the hog business heavily last spring. Before very long he came to me in great distress telling me that his young pigs were all down in the dumps, would not eat, and seemed sick. went to investigate. There they were, moping is the far corner and the troughs just running over with feed. My neighbor jumped over the fence, grabbed the poor little things, brought them over two at a time, forced their noses into the swill and tried to make them eat more. asked him if he fed his dairy cows that way He replied that he did not, but that cows had some sense and that hogs had not. I advised him to cut out the feed for a while, give the hoga chance to exercise some, and watch results. He did and learned his lesson.

Pork is too low and feed too high nowadays to waste any of the latter. I always plan to keep my pigs growing vigorously from the first But they never get any feed unless that give at the previous meal has been cleaned up promptly. In the two or three weeks' fitting the end, we induce the pigs to eat as much a possible, and don't like to see them hungry. W would, however, rather see them hungry eve then than see the feed untouched.

Heavy drafters are easy to raise. The light horse is continually getting into trouble. Walter Elliott, Halton Co., Ont.

Some people get an idea that underdraini will cause the land to be too dry in a dry time My experience is that the drained land is mo moist in a dry time than is undrained land Crops will continue growing on the drained land when those on wet land will be shrunken an shrivelled up. The overplus of water caus some soils to bake hard in summer.-Jas. Mar shall, Wentworth Co., Ont.

October 3,

Construction

During the a country fam by a home su passes withou made for harv is the time to building an ie many persons since concrete the continual ready every wi concrete buildi ally valuable in

With a conci successful stor depends only ful packing, drainage at the and well regula ation beneath Therefore the must be located drained site an sible, in the other buildings It should be to the south.

The size of ing is depende needs of the Nearly any hous consume one pounds every d tons for the sea cubic foot of ic 57 pounds and the ice - house about 40 cubic the ice is of a p ity, meltage f amounts to onequantity harveste a house of a ca quirements. For sufficient supply by 14 feet (insid the eaves and 13 With an allowan the ice for a pa of this structure Either concrete

solid concrete m for the walls. D dation trenches wide and 21/2 fee remove water from ing ice, lay a stri inch drain tile fr outside the bui ending at the se so that the top pipe, a sewer "go will be at floor inches above natu level. Fill the trenches with con portioned one to half to five. Abo level the walls ma of blocks (laid in two cement-sand of solid concrete. solid wall mix th one bag of Portlar sand to four cubic part cement to fou movable forms, 3 f the entire building crete until it sets. the forms may be

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Construction of Small Concrete Ice-Houses

During the sweltering heat of summer many a country family longs for the comforts afforded by a home supply of ice. Too often summer passes without any preparation having been made for harvesting the winter ice crop. Now is the time to get ready for next summer by building an ice-house. For a private supply, many persons are using concrete ice-houses, since concrete is heat-resisting, is not rotted by the continual dampness from the ice and is ready every winter without repairs. Likewise a concrete building is fireproof, a quality especially valuable in the country.

With a concrete house, successful storage of ice depends only upon careful packing, air-trapped drainage at the floor line, and well regulated ventilation beneath the roof. Therefore the ice-house must be located on a welldrained site and, if possible, in the shade of other buildings or trees. It should be turned end to the south.

The size of the building is dependent on the needs of the family. Nearly any household will consume one hundred pounds every day, or 10 tons for the season. One cubic foot of ice weighs 57 pounds and a ton in the ice - house occupies about 40 cubic feet. If the ice is of a poor quality, meltag frequently amounts to one-third the

quantity harvested; therefore it is wise to build a house of a capacity twice the calculated requirements. For a farm with a small dairy, a sufficient supply can be stored in a building 10 by 14 feet (inside measurements) by 9 feet to the eaves and 13 feet to the comb of the roof. With an allowance of one foot on all sides of the ice for a packing of sawdust, the capacity of this structure is 20 tons.

Either concrete blocks or solid concrete may be used for the walls. Dig the foundation trenches 10 inches wide and 21/2 feet deep. To remove water from the melting ice, lay a string of fourinch drain tile from a point outside the building and ending at the service door, so that the top of the last pipe, a sewer "goose neck," will be at floor line four inches above natural ground Fill the foundation trenches with concrete proportioned one to two and a half to five. Above ground level the walls may be made of blocks (laid in a one to two cement-sand mortar) or of solid concrete. For the

solid wall mix the concrete one bag of Portland cement to two cubic feet of sand to four cubic feet of crushed rock, or one part cement to four parts bank-run gravel. Use movable forms, 3 feet high and extending around the entire building, to hold the mushy wet concrete until it sets. The day after they are filled, the forms may be loosened, moved up and filled again. During the placing of the concrete, reinforce the walls, three inches from the outside, with woven wire fencing or with % inch rods spaced 18 inches apart and running in both directions. Stagger the rods by placing half of them three inches from the inside surface of the walls. Inbed two rods or an old wagon tyre in the concrete two inches above all door openings. During the construction set a service door frame (23% by 63% feet) between the forms at one end of the building. Likewise, while pouring the concrete for the gable ends, make provision for small ventilation doors 21/2 feet square.

ROOFING THE HOUSE

A wooden roof, while not durable like one of



Concrete Ice-house: Milk Room in Rear

concrete, is more easily built. To hold the plates on the top of the side and gable walls, sink half-inch bolts eight inches long, heads down six inches into the concrete. Use eightfoot rafters and cover the building with a watertight roofing material

Lay a four-inch concrete floor upon the natural ground and give it a slope of one-quarter inch to the foot in the direction of the drain at



Rot-proof Ice-house of Twenty Ton Capacity

the service door. Place a trash strainer in the drain opening. The water in the "goose neck" sewer pipe will act as a seal and keep out the warm air of the drain.

Hinge the small doors in the gables to outside and top of the frames, so that they can remain slightly open at the bottom yet shut out rain. The service door also swings outward. The frame is fitted with short removable sections of boards set in slots or grooves so as to hold the packing in place.

STORING AND REMOVING ICE

In storing ice use a thickness of 12 inches of sawdust or 18 inches of marsh hay or straw over the floor and around the sides of the house. Set the ice on edge and pack it tightly together without any filler between the cakes. To prevent blocks from slipping, lay them in courses lengthwise in opposite directions in what masons call "headers and stretchers." When the house is full, cover the ice-pack with sawdust or hay weighted down. Keep the service door closed while removing ice and take care that the pack is again well covered. See that the drain works properly and prevents water from standing on the floor.

Where Underdrains Are Needed

Jas. Marshall, Wentworth Co., Ont.

Any soils that remain saturated with water for a considerable length of time after heavy rains require underdraining to produce best results. I have had over 15 years' experience with underdraining, having placed over 20 miles of tile drains in one farm, which is heavy clay in Wentworth Co., Ont., nearly two miles south of Hamilton city.

Most lands require underdrains where the subsoil is not sufficiently porous to allow the rain to be absorbed freely into the lower soils. Where there is a surface wash the best soil is being continually carried down into the lower land, and from there down the creeks or rivers into the lakes or sea, probably to make good farms in the distant future for those who may then be on the earth. This surface wash may be prevented almost altogether by underdrains. Most farmers manure only the hills, and even then the lower land is generally richer.

Soils such as I have seen in parts of Manitoba, where I rode from here four times on my bicycle, and some parts of Ontario, with an open, gravelly, or coarse sand subsoil, do not require underdrains, while on the other hand soils with a close compact bottom, such as we have here, require underdrains over hills and hollows.

Elimate the Scrub

J. R. Westlake, Carleton Co., Ont.

I have recently been studying the result of Prof. Pearl's work with poultry at the Experimental Station, Orono, Maine. At that station they have been striving for many years to improve the laying qualities of their poultry. The system that they followed was the trap nest system. They selected those hens that produced the greatest number of eggs in the year for the breeding pens. Now after many years they are obliged to confess that their poultry are no better layers than were those with which they first started.

There is a lesson here for many of our cow testers who are faithfully weighing the milk produced by each cow daily, or three times a month, as the case may be, and selling to the butcher those cows that do not come up to the mark. If the same principles apply in the improvement of cattle as apply in the improvement of the laying qualities of hens, the herds of these cow testers will never be greatly improved unless the male is taken into consideration as well. As I see it, cow testing is simply an aid to breeding, not breeding an aid to cow testing as many seem to think. When we have found where our best cows are, we are in a position then to breed to the best advantage. Records and promiscuous breeding will never take us anywhere. Records and the use of a pure bred sire of milky breeding will lead to continuous improvement.

1018

Professor H. H. Dean Prepares a Course On "Dairying"

TERE is a Course of Education that will appeal to every progressive farmer. It is the experience and knowledge of the many control of the course of the world put into such a clear and simple form that it may be readily understood and applied with profit by Canadian farmers.

This course is the crowning achievement of Professor Dean's life achievement of Professor Dean's life.

achievement of Professor Dean's life—the result of twenty-two years' experience as a teacher, scientist, investigator and practical dairyman. Prof. Dean is one of the most eminent dairy professors in the world, being professor of dairying at Ontario Agricultural College, Guelph.

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But to go into full particulars about this course is impossible in this space.

this course is impossible in this space. To state the matter briefly, it covers almost everything from the origin and development of dairy cattle and the various breeds to modern dairy stock management. The subjects of "Feeding" and "Breeding" are alone worth many dollars to the man who will apply what he learns.

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- you will have some lotes as to whether the control of the learn.

 I what is the general outlook for familiar to the control of the learn.

 I what is the general outlook for familiar to the control of the learn of

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us desirable to mention the name of this publication when writing to adver

AN UNUSUAL STUDY IN CHAMPION BULLS

Probably not in years have breed Prince Hengerveld Pietje, from the ers of dairy cattle and onlookers at Avondale Stock Farm, owned by Mr. two great shows had as much reason A. C. Hardy, Brockville, Ont. This two great shows had as much reason to be completely mystified in regard to what is the desirable type of show bull as applies to the Holstein bulls shown at the Toronto and Ottawa texhibitions this fall. Herewith we present four illustrations showing than appears in the illustration, since

Avondale Stock Farm, owned by Mr. A. C. Hardy, Brockville, Ont. This bull has a wonderful front. Note his head and neck, his general style and carriage. The illustration shows him,



No.1-Grand Champion Holstein Male, at the Canadian National Exhibition, 1912

The bull here shown is Mercena Vale, first at Toronto, 1912, in the class for Relatein bulls, present and overly, and Grand Ohampion Holstein make. This bull was bred Logan Bross, of Nova Scotia, and is now owned and exhibited by the Colony Farm. Coquittam, B. C. The conformation of this bull is about as near right as is gener ally seen in the show rings—Photo by an editior of Farm and Dairy.

four noteworthy individuals that fig- | his extraordinary length gives the ap-

four noteworthy individuals that fig-ured in the winnings at these ex-hibitions this year.

Bull No. 1, "Mercena Vale," is the first prize and grand champion bull at Toronto. He was exhibited by the Colony Farm of Coquitlam, B. C. As a show bull he is probab-ly in his right place at the head of the colony of four. The judge at Considered him to be lacking in bloom. As may be seen from the bloom. As may be seen from the illustration, he is low down, a bull of great depth, straight in his lines, evenly proportioned, and has an at-tractive carriage and a pleasing head and neck, such as is in every way becoming to a dairy bull. It gives him the appearance of and indicates prepotency

Cut No. 2 shows what is probably one of the best bred bulls in Canada,

pearance of lack of depth. Not in years have we seen a bull that would so suggest to one by virtue of his masculine bearing and his appear-ance the fact of possessing the invaluable qualities of prepotency as is pictured in this bull. This bull was second to Mercena Vale at Toronto. At the Dominion Exhibition in Ottawa, he was made champion over the British Columbia bull.

British Columbia bull. Cut No. 3 shows the bull, Home-stead Abberkerk Prince, owned, and exhibited at the Ottawa Exhibition, by A. L. Stackhouse, of Kinburn, Ont. This bull is an excellent indi-vidual. Alongside of his comperhowever, illustrated as Nos. 1 and 2 we could not see how a judge would prefer him for a champion! Age, of course, must be considered, but to us there is a lack of sufficient masculing

bearing and app mal, as shown i rather long and too much of wh see in a cow Holsteins will fin cise, from a Hol quarters of this present him in h life, there are poi

October 3, 10



No. 3-The G

Homestead Abbe Aylmer, Ont., and burn, Ont. The pla connection is discus

constitution, that would not be favor er two bulls came eration as to whice pion. It is quite that he may devel pectations. Cut No. 4 shows

Cut No. 4 shows has had to be reck Pleasant Hill Korne ed by Neil Sangst Que., and exhibited show this year. At ional Exhibition a year the reserve characteristics. was the reserve cha prize, grand champ Schuiling. Many g judges at the ring thought he should and have received This year he



No. 4-A Notewo This bull is Pleasan Ormstown, Que. Last : competed for the great pion, and many good ju logan Prince Schullling bedy. The bull here a year. The Champion the



No. 2-Senior Champion Bull, Dominion, Exhibition, Ottawa, 1912

Note the general style and carciage of this bull. There is something all his head and expression that leads one to presume him to be a very propotent mall—that is, he appears to possess the quality of passing on to his offayring do him justice, and because of his great neck and crest development, he appears to be low in the back. It was first in the aged class at Dominion Exhibition. Out-this year, ind at Torouto, his leaders at Torouto taking and place to him at Otthe Owned and exhibited by A. C. Hardy, Avondale Farm, Brockville, Out.

bearing and appearance in this animal, as shown in his head, which is rather long and pointed and suggests too much of what we would expect to make the standard of the standa



No. 3—The Grand Champion Holstein Male, at the Dominion Exhibition, Ottawa, 1912

Homestead Abbekerk Prince, here shown, was bred by Edmund Laidlaw & Sons, Ayiner, Ont., and is now owned and was exhibited by A. L. Stackhouse, of Kin-burn, Out. The placing of the bull as changing over the two aged bulls shown in connection is discussed in the adjoining article.

constitution, that in our opinion, would not be favored when these other two bulls came forward for consideration as to which would be champion. It is guite possible, however, that he may develop beyond our expectations.

912

difference in this bull.

difference in this bull.

In the matter of placing cattle, or in awarding prizes to live stock in awarding prize awarding prizes to live stock in awarding in awarding prizes to live stock in awarding prizes to live stock in awarding in awarding prizes to live stock in awarding prizes to live stock in aw



No. 4-A Noteworthy "Near-Champion" Bull of Last year, at Toronto

This bull is Pleasant Hill Pontine, owned and exhibited by Neil Sangster, of This bull is Pleasant Hill Pontine, owned and exhibited by Neil Sangster, of Common Statistics of the Statistics of



This is the Richly Bred Bull

Of which I told you in my adverti Of which I told you in my advertisement in Farm and Dairy two weeks ago, he being son of "KING OF THE PONTIACS," which bull is the sire of two 30-lb. daughters (records having been made as three-year-olds) and he is son of the great "PONTIAC KONDNYER," a bull with Four daughters, having official y day butter records exceeding 37 lbx., and teacher daughters actio were yolks of butter in y days. As you will see from this illustration, this bull

Prince Hengerveld of the Pontiacs

is a most desirable individual. See how straight he is—How deep and thick through the heart—How evenly balanced—How desirable in type for a dairy bull.

I will be willing to part with this bull in the near future, and it you have the right kind of a herd and want him. I will make the price right to you at an early date.

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Receseseseseses FARM MANAGEMENT

R₄₄₄₄₄₄₄ Light on the Labor Problem

as. Armstrong, Wellington Co., Ont. We farmers might just as well give up trying to make out that the mar in the country at \$20 a month and board is as well off as the city mechanic at \$3 a day. He isn't. The city employers do pay higher wages, both actually and relatively, than we do, and they do it because they can afford to. Economic conditions may favor the city and I believe they But there is another reason. The great division of labor that is possible The in city industries makes the city employee a greater producer of wealth than the hired man on the farm.

The hired man on the farm has to have a knack of all work and be able to do a great many separate opera tions such as milking cows, teaming plowing, and so forth. This of course eads to a greater development of in tellect in the man himself, but it also means that, being able to do so many things, he cannot do one thing with the proficiency that the city employee can, and hence he cannot produce as much wealth in the course of a month. I have lost lots of hired men and good ones who went off the wor in the neighboring city of Guelph, and I know, having talked with them since, that they are doing better in the city than I could ever have offered to do for them on my farm, and the above is the explanation that I would offer.

SPECIALIZATION MEANS EFFICIENCY

I believe that we on the farm, however, can do something to approximate the division of labor that is We can spepracticed in the city. We can spe-cialize in some branch of farming For instance, if we devote our 100acre farm exclusively to one branch of agriculture, such as dairying, horse raising, and so forth, we can hire a man and give him some one special branch of the work to look after, and ne can devote all his time to that. For instance, on the dairy farm, one or two men might spend all of their time looking after the cattle. One or two men would do all of the teaming and looking after the horses, and s

My Herd Mangement

Thos. A. McCoy, Hastings Co., Ont. I manage my-herd during the win-ter months in such a manner as to have them in good order in the spring. I feed clover hay, if I have it, corn stalks, and rough feed, also grain, oats, and bran. The corn I grow in hills. I do not pull off the grow in fills. I do not pull off the ears as do some farmers. I always supply the cows with plenty of good water and never leave them outside more than from a half-hour to one hour a day

In the spring I feed plenty of good hay and about four quarts of chop to a cow until June, when the grass is good. From that time until Sepgood. From that time until sep-tember I fed two quarts of grain a day per cow, as I had no green feed until that date. Then I fed corn and roots the rest of the time.

000 foot-pounds of work are necessary to dig and wall such a well, and computing in the same manner it found that this woman does 16,000 foot-pounds of work each day carrying the water up the hill, or in 62 day she has done enough such work t equal the work of digging and walling a well. At this rate she does enough needless work to make six wells a year or 60 wells in 10 years.

By the expenditure of \$5 for a pump, \$5 for piping and expense of laying it and \$1 for a barrel located in the kitchen into which to pump the water, the number of these trips to the spring could have been reduced to one in two days, and in 10 years this woman would have done a sufficient amount of this kind of work to equal the making of only four wells, as com-pared with the former 60. If the



A \$20,000 Herd of Prize Winning Ayrshire Cattle.

This illustration shows a hered or prize winning Ayraire cattle.

This illustration shows a hered of prize-winning Ayraire cattle. The second of the prize of the

Milking at regular hours and hav-ing men that can milk a cow in five six minutes, is a great help in the dairy business.

Saving Steps

L. W. Chase, Nebraska

L. W. Chase, Neorusaa

Too often the little things about the farm are overlocked. A manufacturing company will spend \$2,000 a year for an engineer who can arrange the coal bins in the boiler plant so that a few cents can be saved in the handling of a ton of coal. It is only the very thriftiest of farmers who only the very thrittees of ramers who ever think of such small things, and yet these very small things are those which count the most.

A barn 300 feet from the house causes the men on the average farm to walk 1.59 miles farther each day than they would have to walk if the barn were only 125 feet from the ouse. Even though it is only a trifle farther to walk each trip it amounts to approximately 580 miles each year A man walks at the rate of about 1.5 miles an hour while doing chores. At such a rate of walking it would take him about five more working days each year to travel to the barn farthest away.

A more inexcusable oversight of the little savings about a farm was noticed the other day when a farmer's wife was seen going down to a spring after a pail of water. The spring was about 20 feet lower than the house and this woman was making an aver-

and this woman was making an average of about eight trips each day down to the spring for water.

Upon inquiry it was found that a well could have been dug at the back usenp aspeniestal rarms.

Sked Trough & Machine Co., 1.04.

Isomer's Tweed, ONT.

It can be found that only about 1,004.

James's L.

Photo by an editor of Farm and Dairy men would pump the water while watering the horses her needless work

would be entirely eliminated.

Better still it would be to place a windmill at the spring and pump the water into a tank of sufficient size so that the pleasures of the city cousins who use an average of 30 gallons of water a person each day be experienc-ed instead of being limited to the amount of four and one-third gallons a person.—Nebraska Farmer.

Handling Teams for Efficiency

On a farm adjoining the writer's boyhood home there live a Scotchman boyhood home there live a Sootchman whose horses were always full of life and spirit, writes H. E. McCartney in Breeder's Gazette. The horses were worked hard, too. Their days were longer than on any other farm in the locality. Plows were set at a greater depth and everything done in

Upon studying the methods of handling the teams on that farm one was impressed by the large number of short stops in the field during each half day; once across the field and a short stop, a return trip and another short stop. This procedure was kept up with scarcely a trip without a rest.

The teams appeared as fresh at quitting as when they started ut. A
comparison of the number of furrows or corn rows usually made a very favorable showing for teams handled

on this plan.

Later this system was tried by the writer. It was found that more could writer. It was found that actually be accomplished. actually be accomplished. A ston of half a minute at the end of the field seemed to be compensated by a free-dom of action and spirit that would enable the return trip to be made in ******** The Feede

October 3, 191

The Feeders' Co of our subscribes are invited to send items of it tions will receive *********

Alfalfa is

W. O. Morse, 1 I have fed alfa cows, hens, and pi The hens got it is

When feeding alf I find that we nee ever if the horses hard. My horses alfalfa hay. Even at that we cannot When the horses ar grain ration is ad ig saving in the i

Feeding the Walter Elliott, E A month before start to boil the mares. In this feed winter roots are fe We do not is intended for ins too much acie mach is too smal ch bulky feed. The day before th

are should be take do not fill up too nof feed. If they are the results of over i be disastrous, but feeding would not seen mares on grassimply bleated up ilts of foaling in have not always bee

Calves Che

I have some calves the stantly. They are fee shorts, bran and groun the stable all the tin cause and what will It is rather diffic

may be the cause of appetite of the calverer, possibly due to matter and want of would suggest that piece of rock salt in and they be let out the day for a run in dock. With this sligh treatment they are n is probable they wou the undesirable ha formed.—J.H.G.

Treatment for Repeated gorging

ith food or water, cording to Dr. J. e Nova Scotia Coll ure, is the cause of mptoms are deep ! nced by the expandiduble lifting of the which are increased if orced up a grade at ith food or water; hacking cough, most

The disease is incus andish, but may be ding easily diges and in small quantiti ood as early cut, we mothy hay, prefera th weak lime water ran, flax seed ground er, roots, carrots, tur

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The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All ques-tions will receive prompt attention. The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

Alfalfa is Great Feed

O. Morse, Halton Co., Ont. I have fed alfalfa to practically very animal on the farm-horses, every animal on the larm—norses, cows, hens, and pigs—but have used it principally for cattle and horses. The hens got it in spite of me, and they seemed to thrive on the alfalfa

When feeding alfalfa to my horses when teening ariants so my norses. I find that we need no grain whatever if the horses are not working hard. My horses get rolling fat on affalfa hay. Even my driver is so fat that we cannot feel a rib on him. fat that we cannot feel a rib on him. When the horses are working a small grain ration is advisable, but even then I find that alfalfa will make a big saving in the feed bill.

Feeding the Brood Mare

Walter Elliott, Halton Co., Ont. month before foaling we always A month before roaning we aways start to boil the grain fed to our mares. In this feed is always includ-ed a cup full of boiled flax; if in the

of feed. If they are working steadily the results of over feeding might not be disastrous, but even then heavy feeding would not be wise. I have seen mares on grass that have been simply bleated up on feed and the results of foaling in cases like these have not always been the best.

Calves Chew Wood

I have some calves that ohew wood constantly. They are fed separator milk, shorts, bran and ground oats and are in the stable all the time. What is the cause and what will prevent it?—Sub-

It is rather difficult to say what may be the cause of the unnatural appetite of the calves. It is, how-ever, possibly due to lack of mineral matter and want of exercise and I matter and want of exercise and a sould suggest that they be given a piece of rock salt in their mangers and they be let out in the cool of the day for a run in some small pad-With this slight change in the treatment they are new receiving, it is probable they would soon abandon the undesirable habit they have formed.—J.H.G.

су

Treatment for Heaves

Repeated gorging of the stomach with food or water, and often both, according to Dr. J. H. Standish, of the Nova Scotia College of Agricul-ure, is the cause of heaves. The sure, is the cause of heaves. The ymptoms are deep breathing, evid-nced by the expanding nostrils and fould lifting of the flanks, both of shich are increased if the animal is orced up a grade, at a fast trot or gallop when the stomach is distended with fould or water; convenilly, also, ith food or water; generally, also, hacking cough, mostly in the morn-

The disease is incurable, says Dr. tandish, but may be palliated by teding easily digested, nutritive sod in small quantities. Give such od as early cut, well cured, clean inothy hay, preferably dampened this weak lime water, oats, wheat ran, firs seed ground, and, in winder, roots, carrost, turnips mangels, roots, carrots, turnips mangels,

The Feeders' Corner ginger and two drams of baking soda in the food at night, or oil of tar in dessertspoonful doses.

In some cases better results are secured by alternating these daily or weekly, and in some cases are benefitted by four to 10 grain doses of white arsenic once a day. But care in feeding and watering is necessary in leeding and watering is necessary in any treatment. Out straw, if early cut and well cured, is often prefer-able to hay. In either case, shake the hay or straw well to remove all

Feeding for Milk Records A. D. Foster, Prince Edward Co., Ont.

We find the records of production We find the records of production of the dairy cow coming up higher every year. This is to better feeding, more careful series of the strength of the strength

I have had some experience in feedstirt te boil the grain rea with the stirt te boil the grain rea with a stirt te boil the grain rea with a stirt to be stirt to the stirt to the stirt to be stirt to the stirt ing dairy cows for records and find

The best way I know of to find out what a cow likes best is to watch her lick up the last of a good feed and when she licks off her nose and draws a long breath and seems to say
"Have you anything better?" just
give her a handful of any one kind
of meal and thus go through the
whole bill of fare and she will soon a lo. decide for us what is best suited to her. I always feed some salt on the grain ration. I would not feed more than three times in 24 hours, as a cow should have a rest and time to chew her cud.

A Pointer on Calf Rearing

One of the editors of Farm and Dairy, who recently was down through New York State, writing leading. Holstein breeders, withing leading pressed with the fact of partial properties of the process of the fact One of the editors of Farm and practice we have seen so generally in vogue in many places, that of, "Well, you are big enough to take care of yourself now."

To this end the breeders we visited To this end the breeders we visite without exception, all have seperate calf barns, these being divided off into individual pens, and in them, one calf to a pen. Abundance of one calf to a pen. Abundance of light and fresh air were provided. light and fresh air were provided. In all of the barns, we saw the calif nurseries or pens for the youngest calves were equipped with a string of hot water pipes leading xoun a small, hard-coal heater. In coff snaps, by means of this heating system the chill is taken off of the air and more fresh air can be provided without chilling the calves. the calves.

This little extra heat provided in these cold snaps proves to be a big factor in helping the calf on to maturity, and in keeping it thriving right along even in the cold months.

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blained at this Department and at the
fifices of J. G. Sing, Eso, District Enginer, Confederation Life Building, Toronto,
htt.; J. L. Michaud, Esq., District Enineer, Merchant Bank Building, Monineer, Merchant Bank Building, Monineer, Merchant Bank Building, Monsermanter at Cobourg, Ont.

Postmaster at Cobourg, Ont.

Persona tendering are notified that
tenders will not be considered unless
made on the printed forms supplied, and
signed with their actual signatures, stating their occupations and places of residence. In the case of firms, the actual
signature, he nature of the occupation,
and place of residence of each member
of the firm nutt be given.

of the firm must be given.

Each tender must be accompanied by
an accepted cheque on a chartered bank,
payable to the order of the Honourable
payable to the order of the Honourable
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tender, which will be forfeited if the
person knodering decline to enter into
price the control of the control
if the tender be not accepted the cheque
will be returned does not bind itself to
accept the lowest or any tender.

By Order.

R. C. DESROCHERS, Secretary.

Department of Public Works, Ottawa, September 19, 1912. Newspapers will not be paid for this advertisement if they insert it without authority from the Department.—27878.

Danish Cooperation

The cooperative movement in Denmark, fostered by Bishop Grundtwig's high schools, began by the organization of small societies of farmers of various districts. In these each man was allowed one vote, but he guaranteed that he would supply to the cooperative creamery just so many pounds of butter fat-butter fat being the commodity in which he dealt -and make himself liable independ-—and make himself hable independ-ently, plus the unlimited liability of the cooperative society to the govern-ment bank for the amount of the capital borrowed. The province of the bank in this transaction is not the the bank in this transaction is not the main thing to be considered. The bank must make a fair profit, but the bank really exists for the benefit of the farmers through the coopera-rive societies, which they themselves formed and which they themselves

ADVANTAGEOUS BUYING

ADVANTAGEOUS BUTYING
To-day the Danish farmer buys
nothing individually. He uses no
seeds till they have been tested by
the experts furnished by the cooperative society. He buys his fertilizers,
soy beans from Manchuria, cotton
seed meal from the United States
through the cooperative society. He
they have been been so the society of the
society of the society of the cooperative bacon
factories, which
the cooperative bacon factories, which the cooperative bacon factories, which were founded some time in the eightwere founded some time in the eight-ies when Germany refused the Dan-ish hog because of an outbreak of swine fever. The Danes instantly founded, with the assistance of the government, large cooperative bacon factories. In order to make dairying pessible the Danes had to regenerate the land exhausted by the lack of

ate the land exhausted by the lack of scientific treatment. Denmark is not a good grazing country. The climate, for grazing purposes, is probably the worst in the world. There are only 14 weeks in the year when cattle can graze in the open. In the sixties and seventies

Don't Cut Out A SHOE BOIL CAPPED

WANTED

Experienced Man to take charge of dairy Must be good buttermaker. Apply to

M. GILMOUR & SON.
Springfield Farm Dairy, ROSEMERE, QUE

Man Wanted

To care for and help to milk twenty to thirty cows in dairy, New Ontario. Must be good teeder, one who can get results.

Must be tidy, smart, trustworthy. Wages, thirty-five dollars per month with board to begin. More will be paid man who shows himself worth more. Permanent job for

satisfactory man. Apply immediately to J. M., care of Temiskaming Herald, New Liskeard, Ont.

Look

For

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no roller is gen

it bears the BISSELL

T.E. Bissell Co.

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hame. 2

ABSORBINE

the Dane-lately in possession of his land-found that he must root or die, or become an exile, as the Irish were, for the lack of assistance from an in-That is, he saw the roots—the turnip, the carrot, and, above all, the great sugar-beet root—could be used not alone for feeding his dairy cattle, but could be made most useful in re-storing his exhausted soil; but he did nothing at haphazard.

Being an educated man, he was an openminded man and he induced his government to furnish scientific excerts who could finally answer any question he mighths, and an example, let us take the small fareer with three cows, three hogs, four head of small cattle, and a horse or two. He farms perhaps 12 acres. Now, it is a question with him as to the rotation of his crops; it is a question as to the amount of butter fat that cow should produce. He has, through the cooperative society, the use of a scientific expert, who visits his farm every 18 days and answers all these questions after consultation all these questions after consultation with him. Furthermore, he keeps a duplicate set of books for the farmer, so that the farmer knows exactly the amount of butter fat each cow yields amount of butter rat each cow yields every week, when the cows are ex-pected to calve, the value of the ser-vice of every bull in use, and the exact position of the farmer econ-omically and agriculturally. For this service the farmer pays the expert 30 service the farmer pays the expert of cents yearly per cow, the government paying the rest of the expert's salary—the expert being attached to the Royal Danish Cooperative Society.

Demmark is a country which comprises 15,000 square miles, which is, a suppose, about four times the size

suppose, about four times the size f Delaware. It supports at least 2,500,000 persons in very good condi-tion, and sends out of the country each year, at a conservative estimate, \$150,000,000 worth of butter bacon, and eggs.—Farmers' Review.

Water for the Dairy Cow

H. E. McNatt, Dairy Department, University of

It is very important that the water drunk by the cows giving three or more gallons of milk daily be warmed more gallons of milk daily be warmed to about 00 deg. F. Otherwise the cows will not drink as much as they need to keep up a good milk flow. It does not take much ice water to chill a thin-fleshed dairy cow through and through on a cold winter day, especially when she is compelled to walk some distance through the snow or a cutting wind to get to the tank

Experiments made at the Missouri Experiments made at the Missouri Station show that drinking water is needed in proportion to the milk yield. That is, a cow giving six gallons of milk a day, needs about twice as much water as a cow giving three gallons a day. If the water is too cold to be comfortable if drunk in large quantities, the cow will not drink enough, and as a result, will

drink enough, and as a result, will drop considerably in her milk yield. When our Holstein cow, Missouri Chief Josephine, was giving about 100 pounds of milk each day in winter she drunk daily about 31 gallons of water. Imagine how she would have suffered if that had been ice water, It was warmed, however, and Josephian and the state of the It was warmed, however, and Joine did not chill after drinking.

Percherons.- In reporting the horse Peroneons.—In reporting the horse exhibits at the Ottawa show, we in-advertently overlooked giving credit to Mr. J. E. Arnold, of Grenville, Que., for winning first prize and gold medal given by the Percheron society of America, on his big dapple grey stallion, "Marquis," 485% this horse winning over Wm. Pears' entries which were incorretly given tries, which were incorrectly given credit for winning all the special prizes offered by the American So-

GET THE BEST! ELLIOTT Rusiness College Cor. Yo.g. and Alexander Sis.. TORONTO, One Is well known as the right place for supbusiness and shorthand education. Posi worth \$1100 and \$1500 were recently filled be Write for Catalogue.



Lump Rock Salt, \$10 for ton lots, f.o.b. To Toronto Salt Works, 128 Adelaide St. E. J. CLIFF, Manager

ONTARIO PROVINCIAL WINTER FAIR GUELPH, ONT.

DECEMBER 9th to 13th, 1912 Horses, Beef Cattle, Dairy Cattle Sheep, Swine, Seeds, Poultry

\$17,000.00 IN PRIZES For Prize List, apply to

P. WESTERVELT, Secretary Toronto, Ont.

STOPPED THE **BLOOD AT ONCE** SAVED THE HORSE

Mr. Geo. Lucan, who lives at Wilton. Ont., has a good horse now that he would not have had without Douglas' Egyptas Liniment. He says: "My horse ran away and was so severely cut and torn on a barb wire fence that I believe he would have bled to death had my son not prohave hied to death had my son not pre-cured Egyptian Liniment and syrings the contents of a bottle into the cut which stopped the flow of blood at one. This happened in August and I expected if the horse lived he would be a cripple for life, but thanks to the Liniment searcely a sear can be seen.

"All the people about here know her badly he was cut."

This power of stopping bleeding at once, and healing a wound without proud fleed and almost without a scar, makes Doug-las' Egyptian Liniment invaluable to the who keeps horses, cattle or

25c at all dealers. Free sample equest. Douglas & Co., Napanee,



No. 1^A Pocket =KODAK=

coat pocket. Snap, it is fully extende and in focus. Snap, the picture made. Snap, and it's closed again. made. Snap, and it's closed agn n.
yeCarclully tested meniceus achronatic
ens. accurate shutter: daylight loading.d'
ourse. Made of aluminum, covered with
fine seal grain leather. Kodak quality is
Pictures 3y 4 finches. Picto \$12.00.
Other Kodaks \$4.00 to \$100.00. Br.vnic
Cameras, they work like Kodaks, \$4.00.
\$12.00. All are fully described in the load
catalogue free at your dealers or by n.d.

Canadian Kodak Co., Limited TORONTO, CAN.

******** **POULT**

Kerrerere. Selecting

F. Eaton, C most determining which laying eggs and of us, however, v running into the 30 or 40 minutes. tecting our best I have found tha carefully when a

The following which indicate ar Birds that want months each year



Bees do not recei have a few hives fu and can be had pra illustration herewith Peterboro Co., Ont. yearly yield. Loaf

of scratching for th pirds to roost in th ast off in the mor dications of poor I The busy hen is Every spring we two year old bird in a pen by them birds in this atching. have of detecting the which we have just increased from year ble way of selectin

Why Low Per a s

nongst fowls to roo perches they can when left to t be observed that places as the branch ollar beams of ou ollar beams one cases the tops ation to roost in hig herited trait. It is sleep in places of even in a state of do any enemies, inclu its, etc., and they it es cannot molest t But in modern porotect our poultry a ural enemies by prov safe houses, and an o ture house is the content of the con he ground. he high p perch is tting off it without with a ladder-lik he floor to the the fowl to hop but this ladd v sten ed by the birds in ne roosts, and it is ss arrangement as All appliances that

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LPY

sary, or at least, which do not serve POULTRY YARD ****************

Selecting the Layers

F. Eaton, Colchester Co., N.B. E. F. Baton, Colchester Co., N.B..
The most accurate method of determining which of our pullets are always eggs and which against the state of us, however, with whom poultry is only a side line, and who are not running into the poultry house every 30 or 40 minutes, this method of detecting our best layers is impossible. I have found that by watching hens carefully when around the poultry house it is easy to pick out the good layers.

sary, or at least, which do not serve some useful purpose, are more or less of a nuisance, because they impede the movements of the foot and of their attendant, and make the clean-ing of the house more difficilt. The affections which are likely to come from the use of high perches are bum-ble-doot and rupture abdominal troubles froquently each ole-toot and rupture or abdominal troubles, frequently caused by jump-ing to the ground from a high perch. We would hear less of these troubles in perches in fowl-houses were un-formly low.

The Best Breed

lawe found that by watching hens carefully when around the poultry for sarefully when around the poultry says to pick out the good layers.

The following are some points which indicate an unprofitable bird; the following that the same to set for several birds and the same to set for several months each year never give a large or seek and the same to set for several months each year never give a large or seek and the same to set for several forms and Minoreas, will lay more or seek and the same to seek and the same the same to seek and the same the same that the same that the same that the same the same that the



A Much Appreciated Department of the Farm

A much Appreciated separament of the Farm
Bees do not receive general attention from Canadian farmers, but those who do
have a few hives fully appreciate their value. Honey makes a most delicion dish
listration herewiselessly free of coat where a few hives of bees are kept. The
listration herewise allows the bee department on the farm of Mr. Stewart Brown,
Peterboro Co., Ont.

Why Low Perches are Best

There is a strong inclination alongst fowls to roost upon the highamongst fowls to roost upon the high-est perches they can find and reach, and when left to themselves it may be observed that they select such places as the branches of trees, the collar beams of outhouses, and in some cases the tops of buildings as some cases the tops of buildings as rossting places. This decided inclin-ation to roost in high places is an in-stitute trait. It is an instinct to deep in places of security. Fowls, they in places of security. Fowls, they in places of security. Fowls, and they in the places of security. Fowls, can as the second of the places of the places of security. Fowls, and they in the places of security. Fowls, they can be considered the second of the places of the places of the places of security. Fowls, and they instinctively want to rest peacefully where their en-one of the places of the

mes cannot molest them.
But in modern poutry keeping we worked our poultry against their natural enemies by providing them with a lange and the state of the stat

reservince Co., Ont.

—Photo by an editor of Farm and Dairy, yearly yield. Loafing around instead of scratching for their living, the first control of the proper serving and the last of real properties. The busy hen is the propensities. The propensities of strain than of breed, and many of two year old birds and place them a pen by themselves. The eggs from birds in this pen are used for harding. The only means which we have of detecting the layers are those where of detecting the layers are those which we have used to be a pendarking. The only means which we have of detecting the layers are those where the properties of the

Even in the cold climate of Western Canada, the cotton front poulity here is giving good results to poul-try men who have tried it. No mat-ter where we go, dryness and cold are more agreeable to the best health of the birds than are warmth and damp-

ness.

How revolting is a hen house where the manure is allowed to pile in pyramids under the roots, where live and the process of the proces

Ou'Appelle, Saskatchewan, Canada

The best grain and dairy district in the North-West — cheap lands, 199,00° acres within 6 miles of Ou'Appelle, old established town on O.P.R. Main Line, 8:60° an acre upwards, easy terms. Write for information and illustrated pamphile to Successing-Outpelle Publicity Association and Publicity Association and Appelle Publicity Association and Ap



BUILD
CONCRETE SILOS
Any size with the London Adjustible Size Curbs. Send for
justible Size Curbs. Send for
complete line of Control and
complete line of Control
complete line of Control
complete line of Control

THE

WONDERFUL VALUE!

Have you seen it It is really worth while.

HOW CAN WE DO IT? We are selling this skirt at less than costs us to make it, simply to introduce to you our Mail-Order

We have a Fashion Book for you this season which is really ren's wear. It shows the very latest styles in Ladies' and Child-ren's wear.

WE ARE LEADERS in the art of making clothes for the gentle sex, and we must know how, when you consider the thousands of Customers we have from Coast to Coast.

We guarantee a fit or refund your money—and prepay all charges to your nearest Express or Post Office.

DO NOT ORDER YOUR SUIT, COAT OR DRESS before seeing this book. IT IS FREE FOR THE ASKING.

Now Read About the CONNAUGHT Skirt



Ladies' Vicuna Skirt. Again we offer a beautiful tailor-made Skirt, believing that our patrons appreciate our efforts in pro-ducing a rare bargain, as the demand for our Special last seademand for our Special last sea-son was enormous and at times taxed our capacity. DO NOT THINK that because the price is low the value is likewise, it is really worth far more, and you will agree with us when you

We attribute this success to the fact that all our friends know that we use dependable cloth, good tailors and good trimmings which in this case, on this offer, gives you a Vicuna Shirt above the average It is Skirt above the average. It is five gored, panel back, high waist or the regular waist band. Comes in colors Navy, Brown, Grey and Black.

Be sure and mention whether you want high or low waist,

Sold in stock sizes only as follows:

STOCK SIZES

-23 24-25 25-26 26-27 27-28 28-29-30 -38 39 40 42 43 43 Length -38 39 42 43

We call it the "CONNAUGHT,"

98 POST PAID

If you do not get the Skirt, be sure and get the Catalogue.

MONTGOMERY ROSS & CO., LTD. MONTREAL

The Mail-Order House de Luxe of Canada

FARM AND DAIRY fact that they have dairy cattle that

AND RURAL HOME

Published by The Rural Publishing Comof Pape

i. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia. Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Cana-dian Holstein Cattle Breeders' Association. dian Holstein Cattle Breeders' Association.

2. SUBSCRIPTION PRICE, 8.00 a year.

For all Dritain, \$1.00 a year. For all counand \$60 for postage. Notices of the ex
prication of subscriptions are sent to all

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multiple of the price of the sent of the con
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niused for more than one year after date

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3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

4. CHANGE OF ADDRESS. — When shange of address is ordered, both old and new addresses must be given. 5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us my agricultural topic. We are alw cleased to receive practical articles. CIRCULATION STATEMENT

CIRCULATION STATEMENT
The paid subscriptions to Farm and
Dairy exceed 14.378. The actual circulation of each issue, including copies of the
paper sent subscribers who are but slightfrom 15.675 and sample copies, varies
the paper sent subscribers who are but slightfrom 15.675 and sample copies, varies
the paper sent subscription rate.
Sworn detailed statements of the circulation of the paper, showing its distribution by counties and provinces, will be
mailed the papersective policy.

OUR PROTECTIVE POLICY

want the readers of Farm and Dairy We want the readers of Farm and Dairy to feel that they can deal with our advertisers of the feel of t

FARM AND DAIRY PETERBORO, ONT.

EDUCATION DID IT

Rider Haggard, novelist and farmer, has recently published a book telling of personal investigations that he made into the subject of Danish agriculture. Mr. Haggard went right out into the country in Denmark and talked with the farmers. He studied their farming methods, their business methods, and also their educational system. He saw the disadvantages under which the Danish farmer labors-the poor soil and none too favorable climate. After studying the subject thoroughly Mr. Haggard has come to the conclusion that the wonderful prosperity of rural Denmark is due more than anything else to their splendidly practical system of education.

The superficial observer will attribute the success of the Danes to their

are big producers, and to their selling cooperatively, thereby securing the biggest prices paid. But these things are only outcroppings of the rural basic factor in Danish prosperity-education.

The whole system of Danish education is designed to give the student a high appreciation of the dignity and usefulness of the calling of agriculture. In his school life the Danish boy learns more than the three R's. He learns both the how and why of elementary agriculture. and when he leaves school he is well equipped to carry on farming in an intelligent manner. For those who wish further education along agricultural lines the Government has provided a system of agricultural high schools that has its equal no place in the world.

School children in Denmark get as much "cultural" education as they do in this country. They study the best literature with just as much appreciation as does the Canadian school child. But they get more. They get an education that will be of assistance to them in the practical everyday affairs of their entire life. How long will it be before we here in Canada give our children equal advantages?

INVESTMENT OR EXPENSE

When a railway company decides to build a branch line, the managers do not wait until profits from the lines already in existence will enable them to build the new branch. They add to their capital stock, sell shares to the public, and depend on the earnings of the branch line to pay interest on that investment. The new branch is to them an investment, not an added expense.

There are thousands upon thousands of farms in Ontario that are badly in need of tile draining. many cases the annual income from those farms could be doubled by a well planned system of tile drains. But the owners of those farms are waiting until they get enough money ahead to meet the expenses of tiling.

Those of us whose farms are wet might well take a lesson from the practice of railway companies. Tile drains are not an additional expense, but a permanent and profitable investment. Instead of waiting many years until we can tile drain our farms on our bank accounts, why not add to our capital by borrowing from the Government as provided for in the Tile Drainage Act, put in our drains, and then pay interest and principle from the profits accruing from the new improvement. That is a business-like way of doing it.

We must draw a distinction between investment and exepnse. good investment is always wise. Let those of us in Ontario whose farms need tiles get in touch with the Department of Physics at the O.A.C., Guelph, and make arrangements for a drainage survey of our farms. Then through our County Council we can arrange for a loan with payments extending over twenty years. Let us, excellent agricultural methods, to the lif we are short of cash, do it-now!

IS HARD WORK ADVISABLE?

The slowness of many of our hardworking farmers to adopt reforms that are obviously for their own benefit has always been a source of wonderment to educationalists. For instance, the value of alfalfa could not be more clearly demonstrated. The experience of hundreds proves that the investment in a pure bred sire in the grade herd will return manyfold. And yet many of our farmers, perhaps the majority, do not grow alfalfa nor keep pure bred sires.

There is a physiological reason for this conservatism on the part of our farmers. Most of us think that in order to get along we must work very hard and work long hours. Our sympathetic nervous system which controls the distribution of energy in the body is worked overtime to supply energy to the muscles that are used in manual labor. The sympathetic nervous system develops as we require it to, and more and more energy is directed to the muscles and less and less to the brain cells. The adoption of new and progressive methods first requires a mental effort. But many of us have worked so hard with our muscles that the necessary energy for the development of new ideas is not directed to the centre of thought, the brain.

Not long ago we saw a fine example of the practical working out of this scientific principle. A farmer who had always worked very hard had to go to the hospital for a couple of months. As he could not direct his energies towards manual labor, he started to read and think. When he came back to the farm he was ready and willing to make changes and reforms to which he had previously been opposed.

We farmers should remember that brain is quite as important as brawn in the management of our farms. We can hire brawn, but we cannot readily hire the brain power. We must supply that ourselves. Even if labor is scarce and high we cannot afford to make slaves of ourselves. For then progress ceases, just as does our ability to think.

TAKING COUNSEL WITH FEAR

"I am afraid that it will kill out, and then I will have all my trouble and expense for nothing." So said a Peterboro county farmer recently in explaining why he had not seeded a field to alfalfa last spring as so many of his neighbors had done. His explanation brought to our minds the reasons advanced by another farmer in a western Ontario county for not going into pure bred stock. years he had been talking about purchasing a Holstein bull, but he is still using a scrub in his herd, because he thought it too great a risk to put so much money into one ani-

The trouble with these two farmers is that they are taking council with their fears rather than with their courage. They do not realize that if they will not risk anything they cannot gain anything.

Is the risk so great after all? Al-

falfa will kill out occasionally. will red clover. But thousands of alfalfa growers will testify that it would take more than a winter killing occasionally to render the crop unprofitable. Dairymen from one and of Canada to the other would smile at the idea of there being any risk in investing money in a pure bred sire

We should not be governed by our fears. Let us take council with our courage.

OUR EDUCATIONAL SYSTEM

In the course of an address before the Illinois Bankers' Association President B. F. Harris spoke some words of wisdom on rural education that we would all do well to ponder. He said :

"The children in the country are entitled to a course of instruction that will enrich their lives and make life in the country not simply tolerable but attractive and all that it should Practical education develops thrift, and thrift is a factor in progress, whether of the

Are our Canadian school children here in Canada getting the kind of education of which Mr. Harris speaks? If not, where do our school courses lead to?

We find our answer in a rapidly decreasing rural population and in a continually increasing city population. The cities of Ontario alone increased in population over 300,000 in the same period that the rural population decreased 100,000.

Did our schools exalt the dignity of farming rather than laud the socalled "learned professions," there would be more of our young people remaining on the farms. The reor ganization of our common school sys tem here in Canada and the substitu tion for subjects now studied of sub jects that bear directly on the life work of the student is one of the reformations that must come in our educational system if we are to re tain a contented and educated population in our rural sections.

A new feature in the city milk trade is the continually increasing number of dairymen who are breed

ing and raising the Raise own cows. City milk the Calves. producers are finding that it is now impos sible to go out into the country buy up the best cows at nomina prices. In many places the count has been drained of good cows. others farmers are finding that their good cows are the only profitable on and are worth as much to them as the city milk producer. Around Moo treal, Ottawa, Toronto, and oth large cities we can now find dozens d farms with fine young stock de veloping where formerly not a ca was raised. This is development the right direction. It will preve the draining of the outlying count districts of good cows, and the dairy men themselves will make me money than under the old system

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October 3, 19

It may be th time in carrying refusing absolute use of Farm and ing columns to p electric belt. I anick and questi we are doing sor iustice. It would surpr

the great amount advertising that is during the course which we turn do In connection v we have no com

ever. With some it is a question w should put it in Farm and Dairy. A case of this two weeks ago.

ment was subi "Away with wor and the illustrati with was to be us



telling the merits of this rupture holder, and asking people to write for their free book, which pose all humbug etc., it took a ge doctors and drug contract for this ac presented somethi to us. The ad. w 26 issues

There was reall the advertisement jectionable other t ance and the insinu

Perhaps we ha people an injustice ing their advertise must draw the lin and our line includ able advertising, e tionable in appeara

We believe our oughly appreciate this regard, and w much to do with in Farm and Dair splendid results the because OUR I DAIRY FARMER Farm and Dairy, OUR ADVERTISE

While we are hundreds of dollars revenue right alon accepting all adver fers, we have fait win out in the lor policy, and we inte this policy and co duct this paper, Fa where it will alwa where be known

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What would you do about it? Where would you draw the

It may be that from time to time in carrying out our policy of refusing absolutely to allow the use of Farm and Dairy advertising columns to patent medicines, electric belt, liquor, get-richquick and questionable schemes, we are doing some people an in-

It would surprise you to know the great amount of questionable advertising that is submitted to us during the course of a year, and which we turn down absolutely.

In connection with most of this we have no compunction whatever. With some of it, however, it is a question whether or not we should put it in the columns of Farm and Dairy.

A case of this kind came up two weeks ago. An advertisement was submitted headed: "Away with worthless trusses, and the illustration given herewith was to be used in connection



free book, which claimed to expose all humbug methods, etc., etc., it took a general thrust at doctors and drug stores. The contract for this advertisement represented something over \$120 to us. The ad. was to appear in 26 issues

There was really nothing about the advertisement to make it objectionable other than its appearance and the insinuations it made.

Perhaps we have done these people an injustice in not publishing their advertisement! · But we must draw the line somewhere, and our line includes all questionable advertising, even that questionable in appearance.

We believe our readers thoroughly appreciate our policy in this regard, and we know it has much to do with our advertisers in Farm and Dairy getting the splendid results they tell us about, because OUR PEOPLE THE DAIRY FARMERS, who read Farm and Dairy, BELIEVE IN OUR ADVERTISERS.

While we are dropping many hundreds of dollars in immediate revenue right along through not accepting all advertising that offers, we have faith that we will win out in the long run on this policy, and we intend to continue this policy and continue to conduct this paper, Farm and Dairy, where it will always and everywhere be known as,

A Paper Farmers Swear By"

Jersey Island and its Cows

Jersey Island, the home of the Jersey breed of cattle, is one of a group of three islands situated off the coast of France. The cattle of these islands were first known as the Alderislands were first known as the Alder-ney cattle. Later they were formed into three distinct breeds. The Jer-seys originated from a cross between the large, red Normandy with the small, black Briton, many centuries ago. They have been bred with litago. They have been any centurities to read the read of foreign cattle, except for slaughter, was prohibited under severe penalty. The three breeds of cattle, known as the Jersey, Alderney and Guernsey, coming respectively from the Channel Jaland group, differ very little in general appearance, and might with properly and the read of the re the former, and are more useful for beef, while the Alderneys are smaller and more delicate even than the Jer-seys, and few of them have been imported to America. THEIR HOMELAND

ported to America.

The island of Jersey is 11 -miles long, and less in width. It contains about 23,000 acres, and has a population of 00,000 people, it has many advantages, which tend to control of the control of th cains about 10 acres. Few farms exceed 50 acres. As a rule, dairymen on the island do not keep more than three or four cows each, these being tethered out of doors from May to October, and are housed at night only during the remaining portion of the year. This method of handling the stock tends to explain, in a large measure, why tuberculosis is not found on the island.

ORGANIZED EFFORT
The first great demand for Jerseys The first great demand for Jerseys can from Great Britain shortly after 1835. At that time a few gentlemen and farmers, encouraged, possibly by the success achieved in England by the Shorthorn and other breeds, formed the Royal Agricultural and Horticultural Society of Jersey. The chief aim of this society was to improve the breed of cattle, which would be conducive to the general improve the breed of cattle, which would be conducive to the general welfare of the island. At that time, two of the best cows in the island were selected as models of the breed, and a scale of points was compiled. Since that time many shows have been held, which have served as inducements to Jersey breeders to improve their cattle. The first improve their cattle. The first improve their cattle. The first improve their cattle. The one of the cattle cattle. The legs with the cattle cattle. The first improve their cattle. The first improvement of the cattle of the cattl American breeders, who were first actracted to these covs, belong the redit of many of our famous strains of
blood. At this time great interest
had been developed in beef cattle.
Americans were attending Shorthorn
sales in England, and paying exorbitant prices for cattle. This awakened
interest in the other breeds of cattle. The island report of 1825-54-55
speaks of American buyers, also
warns breeders of the injury they
are doing to themselves and to their
neighbors in selling off their prise
animals. The report of 1858 was of
a retrospective nature. It says:

"ERSULTS OF ATTENTION"
"Thirty years ago, the cattle were

"Thirty years ago, the cattle were lilf-fed, ill-shaped beasts, who knew not the taste of mangels, carrots or throughly; many a man feels "put swedes—scarcely that of hay; whose "out" because of what he takes in.

stabling was wretched, and whose winter feed consisted mostly of straw or a few watery turnips. Now they are well fed, improved in quality and are well red, improved in quality and symmetry; new buildings dot the is-land, and a general prosperity has dawned on the farmers. One of the most detrimental features of the immost detrimental features of the importation to America about this time was the demand for dark colors and white muzales and switches. Eccentricity in this regard has now passed by, and the Jersey is slowly but surely gaining ground.

In 1896 a herd book was established on the island. In this were reged on the island. In this were regulated the color of the color of

tion steek, including all qualified cattle on the island, and pedigreed stock, including Jerseys from foundastock, including Jerseys from founda-tion stock. Two years after the herd book was established on the island, the American Jersey Cattle Club was inaugurated in Philadelphia. The the American Jersey Cattle Citib was inagurated in Philadelphia. The object of this was to carefully guard the interests of dairy eather, and suggest ways and means of improving the interest of the control of the con

Central Alberta a Dairy District

Isaac Bateman, Innisfail, Alta.

Issue Bateman, Innifail, Alta.

I believe that dairying here is only in its infancy. Most of the settlers are miking only a few cows on the side, if were and keeping very infector, the settlers are miking only a few cows at that. Judging from the sides of the settlers are that Judging from the settlers on the side had for Holstein-Friesen out calves this summer, I believe out immers are beginning to realize the immers are beginning to realize the importance of a good pure bred dairy size at the head of their herds.

There is a considerable amount of cream being shipped to Calgary from Innisfail this summer, but still we have a good output at our creamery. There are several creameries and factories in the surrounding country.

Incirc are several creameries and factories in the surrounding country. There is a creamery at Markerville, If miles north-west, a private cheese factory seven miles north-west, a creamery at Lake View I7 miles east, Tousher Valley creamery 20 miles east, and a cheese factory at Bowden 12 miles south. I do not know the output of these creameries and cheese factories at present. There is also the Red Deer Creamery to the north and a private creamery and cheese factory. On the whole there is quite a lot of dairying going on, and in a few years I believe that here in Alberta we will be second only to Ontario. factories in the surrounding country.

Ontario.

We have an ideal country for dairying. We can grow anythine in corse feeds. I have cut two cuttings of alfalia this year, the first averaging two and a half tons an acre and the second two tons an acre. We can cut two to two and a half tons of citmothy hay to the acre and grow 10 to 12 tons of maneles and urnins and timothy hay to the acre and grow to the 12 tons of mangles and turnips an acre. We have not corn fodder as in Ontario, but we can grow two and a half to three tons an acre of oat green feed.

green feed.

I have been here 10 years, and J have always had lots of feed. I have 67 head of cattle, young and old, and carry them all on 160 acres. Only the young cattle range out all summer: that is, the grade cattle. The pure bred are always on the place.

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A compared to the compared to the compared to the contry.

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Protection or Free

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States opposed to the system of profection? Why do they claim that profection? Why do they claim that proted the system of profection of the system of profection? Why do they claim that prounjust taxation on farmers? Which
do you believe in. Protection or Free
Trade? What do you know about this
for all your information on what you
have read in the party press, either
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to hold your own with politicians or
anybody in its discussion.
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MAAAAAAAAAAAAAAAAAAAA Creamery Department

Butter makers are invited to send contributions to this department, ask questions on matters relatir to butter making and to sugge subjects for discussion. Addresset to Ureamery Department.

L coccessores coccessores and a Stirring vs. Not Stirring Curds

Prof. H. H. Dean, O.A.C., Guelph. This is a continuation of the work done during the past three seasons, except that the curd was divided three nearly equal parts at the time of dipping, instead into two parts as formerly. curds were not stirred, but simply allowed to drain in the curd-sink: the B. curds were stirred slightly; and curds were stirred "dry." Altogether ten experiments were made during the season, for which there were used 16,456 lbs. milk, testing an average of 3.47 per cent. fat, and 2.2 per cent casein. The percentage of acid at the time of dipping averaged .176 for all three dipping averaged .176 for an inree lots; the percentages of acidity at milling were .643, .636, and .63; at salting—1.02, .917, and .901, respectively for the A. B. and C lots. The salting—1.02, 917 and 901, respectively, for the A. B. and C lots. The percentages of shrinkage during one month were 3.09, 2.48, and 2.23, respectively, for A. B. and C, lots. The average percentages of moisture in curd and cheese, also the average scores of the cheese are shown in the

Average score for

An excellent plan is to invite some

farmer who is an officer in some suc-cessful cooperative creamery in a

neighboring locality to be present at

the meeting. Frequently a good plan is to send some interested farmer to

a community where a good coopera-

have him learn the plan of organiza-tion and operation. Any of these me-

thods will aid in getting the proper foundation laid for a good coopera-tive organization. A cooperative

PRELIMINARY COMMITTEES A-good plan is to select temporary officers at the first meeting and have

committees appointed to report on the number of cows, number of shares,

may be held by any one person thus ensuring a wider distribution of in-

The first requisite of a creamery sufficient number of cows.

the kind generally found, no creamery

400 cows within a radius of five miles from the creamery. This is the very

point that the "creamery promoter

will overlook, and a large percentage of the "closed creameries" over the

country have been built by the pro-

can hope to succeed without at least

creamery is in operation, and

Per Cent. Moisture in: Green Cheese 1 Flavor Closeness. Color. Texture. Cheese. month old Total. dipping. Per cent. Per cent. Per cent 16.75 17.05 14.11 14.30 14.32 91.53 45.00 34.43 34 43 14.35 CONCLUSION ny question that may come from the

thods will

Last year we said; "The results of farmers. three years work on this question indicate that there is probably little or no advantage in giving curds so much stirring at the time of dipping. as is the common practice among cheesemakers; on the other hand, it is probably an advantage to the quality of the cheese to do some stirthe ing at the time the curd is placed in the curd sink, or upon a rack in the The results of this year's tests confirm our conclusion of last year, as the cheese made by stirring slighttive organization. A cooperative creamery organization is only as strong as its weakest member; hence the necessity of a thorough know-ledge from the start. ly, averaged one point higher in the scorings than did those made from curds not stirred at all, but they are about three quarters of a pint lower in average scorings than these made from curds stirred "dry," The diff-erence in quality in each of the three lots is not very great. Stirring tends to decrease the yield of cheese per 1,000 lbs. milk, but also tends to improve the quality slightly. We are inclined to think that many cheesemakers stir their curds more than is necessary. However, the cheesemakers autri their critis more than is necessary. However, the market demand for "Improved quality" in cheese is on insistent that most makers feel that it is safer to sacrifice some in "quantity." in order not to run risks on "quality."

Winter Dairy Exhibition

The directors of the Western Ontario Dairymen's Association are distributing prize lists and entry forms for the Winter Dairy Exhibition, which will be held in Woodstock, Ont., Jan. 15 and 16, in connection with the annual convention of the association. tion. The prize list has been some-what extended and the number of cash prizes increased. The list of special prizes being of-

fered this year is unusually large. Prize lists and entry forms may be obtained from the secretary. Mr. Frank Herns, Bank of Toronto Chambers, London, Ont.

Organizing Cooperative Creameries

G. L. Martin, Prof., Dairying, North Dakota Agricultural College

Every now and then the question of organizing creamery companies comes up for consideration. This is especially true in sections like the North-west, where the farmers are beginning to realize that the dairy cow is a factor that needs to be considered where the old system of gen eral grain farming is to be replaced by a system of more diversified farm-

The local cooperative creamery is a necessity where the largest returns are desired from the dairy business so the question of proper organiza-tion is very important for where thoroughly organized the cooperative creamery seldom fails

HOW TO ORGANIZE

There are two ways of forming reamery organizations. One way is creamery organizations. One way ers—persons interested only from their own standpoint and the other way is for the farmers to do it themselves. The best way is to call a meeting of farmers and business men in the locality where such an organ ization is desired. Arrange to have attend some disinterested dairymen from the Department of Agriculture from the Department of Agriculture or the Agricultural College, who are thoroughly familiar with every de-detail of the business, willing to co-operate freely and able to answer

moter and failed from lack of cows, together with too large an investment building and equipment,

The cost of building, equiping, and operating a creamery will depend upon the volume of business. A building sufficient to handle the product of 400 cows, if put up by the compa ought to cost not over \$1,800; if h the promoter, it often costs \$3,000 The machinery required to properly equip such a creamery will depend largely upon the volume of business. It is much better to begin with only what is actually necessary, then later to install such machinery as needed. In many of the promoters' creameries can be found expensive new ma-chinery that has been cast aside because there is no use for it.

The first cost of starting a cream-

ery is large enough at best and to have a lot of useless machinery cast aside is a needless expense.

It is always advisable new machinery, which for the average creamery will cost close to \$1,000 for the loss in efficiency of second-hand equipment often will more than offthe additional cost of new.

The details and cost of operating are best determined by those ested in the company and would vary with the volume of business.

The Why of Sweet Cream

When whole milk is delivered to a creamery the farmer understands that if it is sour the separator will be clogged and such milk cannot be skimmed; but when the farmer delivers cream to the factory it is sometimes difficult for him to understand why an objection is made to its sourness, because he knows that the but ness, because he knows that the but-termaker will sour or ripen the cream before he churns it. There are at least two good reasons for the butter-maker wishing the cream to be sweet so that he can control the souring or ripening process himself.

First, the souring of the cream

must be uniform throughout in order that the butter may have a uniform flavor. This very important quality of butter cannot be guaranteed from day to day when the cream received from different patrons varies in acidity from perfectly sweet to excessively sour cessively sour. The mixture of such be so ripened as to give a uniform flavor to the butter.

Second, many buttermakers wish to avail themselves of the advantages gained in buttermaking by pasteurizing the cream. Since it is a well-known fact that pasteurizing thin sour cream causes a heavy loss of butnearly sweet in order to obtain the full benefits of pasteurization in but-termaking.—Wisconsin Bulletin.



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October 3, RESERBERA

Cheese Makers are in this substitute on the questions on heese making ects for discr to The Cheese

******* Season's N

Although the year in Eastern the middle of \$20,000 to 25,000 ason's make there is a prosper may be wiped o the season, and this year may ex by possibly 5,000 Instructor G. (

THE BUTT "Your two lots right-but will kind of salt did THE FIRST

"I don't know gave me what h THE SECON "I used Windso

THE BUTTE "I want your b about Windsor I man who is pa always use Win pretty sure to make good butt

I'll take all y as you use

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W-+************** Cheese Department

Makers are invited to send contri-butions to this department, to ask questions on matter relating to cheese making and o suggest sub-jects for discussion. All of the control of the Cheese Maker's Department. Makers are invited to send contributions to this department, to ask questions on relating to cheese making and send to the contributions of the contribution of the co

Season's Make of Cheese

Although the make of cheese this year in Eastern Ontario, up to about the middle of September, was some 20,000 to 25,000 boxes short of last 29,000 to 25,000 boxes short of last scason's make up to the same date, there is a prospect that this shortage may be wiped out before the end of the season, and that the total make this year may exceed last year's make by possibly 5,000 boxes. Chief Dairy Instructor G. G. Publow of King-



THE BUTTER-BUYER said-"Your two lots of butter taste all right-but will they keep? What kind of salt did you use ?"

THE FIRST FARMER said-"I don't know-the storekeeper gave me what he had?

THE SECOND FARMER said-"I used Windsor Dairy Salt".

THE BUTTER-BUYER said-"I want your butter. I know all

about Windsor Dairy Salt-and the man who is particular enough to always use Windsor Dairy Salt is pretty sure to be particular to make good butter.

I'll take all you make-as long as you use

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pleasure.

Printed notices containing further incormation as to conditions of proposed
fortract may be seen and blank forms
of Tender may be obtained at the Peat
filler of Lakofield and at the office of the
lost Office Inspector, Kingston.

H. MERRICK, Post Office Inspe Post Office Inspector's Office, 25th September, 1912

ston, while in the office of Farm and ston, while in the office of Farm and Dairy last week, stated that the reports he was receiving from the different instructors showed the factories now to be averaging a box of cheese a day more than they were making a year ago at this time. He said that he never knew the prospects for a large make during the month of October to be as bright as they are this vear nastures being in

they are this year, pastures being in exceptionally good condition. He was hopeful that the factories will continue hoperul that the factories will continue to average a box of cheese a day more than last seasn's make, which would result in an increased make for the season. Some factories are averag-ing two to four boxes of cheese a day over last year's make, but these are

Important Dairy Census

What proportion of dairy farmers keep pure bred bulls at the head of their herds, have silos, grow corn and alfalfa, take proper care of their milk and cream, feed soiling crops, or do a large number of other things advocated by leading dairy authorities? No person knows. The Ontario Demartment of Agriculture has decided partment of Agriculture has decided partment of Agriculture has decided to try and find out what the actual conditions are in Ontario. Arrangements have been completed for the taking during the month of October of a farm census, the object of which is to ascertain as nearly as it can be done what the actual conditions are on the dairy farms of Eastern and Western Ontario.

Western Ontario.

Chief Dairy Instructor, G. G. Publow, of Kingston, while in the office of Farm and Dairy last week, exof Farm and Dairy last week, ex-plained what it is proposed to do. There are some 26 groups of factor-ies in Eastern Ontario, with an av-erage of about 25 factories in each. of these groups are in charge of a dairy instructor. In each of these groups one factory has been selected. groups one factory has been selected. The dairy instructors are going to visit every patron sending milk to these factories and ask the questions outlined below. In three of the groups of factories three factories will be selected typical of the different classes of factories in that group. In five counties, townships have been selected and arrangements are being selected and arrangements are being made to visit every patron sending milk to all the factories in these five counties. These counties and townships are as follows: In Glengarry Co., Kenyon Township; in Leeds Co., Bastard Township; in Frontenac Co. Kingston Township; in Prontenac Co., Mastard Township; in Frontenac Co., Kingston Township; in Prince Edward Co., Hallowell Township; and in Hastings Co., Roden Township. The dairy instructors in whose syndi-cates the patrons of three factories will be visited are Dairy Instructor Ecklin, of Lanark Co., Elliott, of Ecklin, of Lanark Co., Elliott, of Gardon and Remirewe Counties, and Gardon and Remirewe Counties, and Control of the Carning Co. the patrons of the Cannington cream-ery will also be visited.

Where the instructors are unable to do all the work themselves, they will do all the work themselves, they will be assisted by the district representatives of the Department of Agriculture. The districts' representatives will have charge of this work in the five townships. The secretaries of the cheese factories and the creameries which are to be visited, will assist. They will be paid to furnish the names of their patrons with a statement of the amount of milk and a statement of the amount of milk and statement of the amount of milk and cream they deliver between about the first of April and the first of October. All the information thus gathered will be kept strictly confidential as far as individuals are concerned, but it will be tablulated in such a way as to show the average condition of the average form. farm.

QUESTIONS TO BE ASKED

Among the questions that will be asked the patrons are the following: What is the size of your farm? Arr you an owner or tenant? What proportion of your farm is in woodland,

pasture and under cultivation? How many head of cattle, horses, sheep, hogs and poultry do you keep? What are their breeds? What proportion of them are pure breds? What are reyour average returns from each class of stock? What rotation of crops do you follow? How much aifalfa and corn do you grow? Have you a silo? And if so, what is size, and make, and what results have you obtained from it? Do you feed soiling crops, and if so what kind? How much grain dc you feed? How many tons of hav do you sell off the farm, or have you rurchased? What amount of "A.D. is fed on the farm and sold from it? pasture and under cultivation? How fed on the farm and sold from it? led on the farm and sold from it? What is the character of your stable? Have you any provision for light and ventilation? What form of power do you use, if any? What provision have you for caring for your milk and cream? Do you keep ice, and what character of well have you and where is it situated? Other similar questions will also be asked in the similar destroys will also be asked to the similar destroys will also be asked to start the similar destroys will also be asked to see the similar destroys will also be asked to see the similar destroys will also be asked to see the second to the second to see the second to second to second to see the second to see the second to is it situated? Other s tions will also be asked.

It is believed that the information thus to be gathered when compiled will be of great value. It is probable that in the course of a few years another census may be taken in the same districts to ascertain what improve-ment, if any, has been made in the introduction of improved methods, and what proportion of the farmers are still on their farms and the reasons, such as shortage of help, that are leading farmers to leave their

Cheese Scales Often Mislead

The report which the commission appointed by Hon, Martin Burrell, to investigate the shortage of cheese weights at the port of Montreal will make to the Department of Agriculture, will contain some startling information relative to the industry in

formation relative to the industry in Eastern Ontario.

R. A. Pringle, K. C., chairman of the commission, states that Commissioner Macdonnell and J. D. Lemieux had visited the great majority of the factories in Eastern Ontario and Western Quebec, and found the scales at all of these factories, without a single exception, out of order, and mor returning accurate weights. This, it is believed, will, to a great extent explain the discrepancies found in the weights at Montreal, and the cuts in weights so frequently complained of by cheese makers and plained of by cheese makers and

salesmen.

Although Messrs. Macdonnell and
Lemieux visited a great many factories, the number is only a small portion of the total number in Ontario
or even Quebec. It is believed that
the false scales must be very numerous, and that the situation calls for
impeditus action. immediate action.

I go slow in taking an ordinary factory on to my list as a cheese buyer. How good I feel in seeing the other fellows getting the poor cheese.—Senator D. Derbyshire, Leeds Co., Ont

WOOD WARD

(15)

YOUR COWS WILL GIVE MILK OF GOOD QUANTITY & QUALITY

Ur blow Quantill & Qualitic this winter it you said their water supply carefully. Does not them out on a cold winters day to drint them out on a cold winters day to drint them out on a cold winters day to drint them out of winters and the cold winters are the cold winters and the cold winters are the weather of the winters and the cold winters are the weather of the cold winters are the weather of the world winters and pull particulars for the cold winters and full particulars for the wood water with the particulars of the Wood water with the wood water than the world with the particulars of the Wood water with the wood water than the wood water water than the wood water basins.

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CREAM—CREAM—Wanted Sweet Cream, shipped f.o.b. at West Toronto, C.P.R. Address Hodge's Dairy, 131 High Park, West Toronto.



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good atanding may pre-empt a quarter-rection slongeside his homesteed. Price, or Duties—Must reside upon the home-stead or pre-emption six months in each of six years from date of homestead or six years. The date of homestead carn homesteed patent) and cultivate fity acres extra-tions of the six of the six of the fity acres extra-tions of the six of the six of the carn homesteed right and cannot obtain a pre-emption may enter for a purchased home-steed in certain districts. Price, \$3.00 per each of three years, cultivate to each of three years, cultivate to and erect a hone worth \$200.00.



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THE SOUTHERN RAILWAI Mobile 80 tho Railway will help you find a desirable farm location where two and three crops was manually. Affaing produces 4 to 4 tons, for yields 60 to 100 but, and the series of the series



TE who can suppress a moment's anger may prevent a day of sorrow. - Barrow.

. . . The Revelation

(New England Homestead)

THERE was no doubt about it. he seemed to be waiting anxiously some one had stolen a hundred dollars in bills from the cash register in the hotel. I heard the whole story on my return from works. I saw a shadowy look of relief flit or rather as much of the situation as anyone there knew.

It seems that a new patented register had been purchased for the hotel office, and that afternoon the salesman had called to explain the combination by which it was opened. No ope was in the office when the combination was given, and the trials gone through except Sterns, the pro-prietor, and the salesman.

Late in the afternoon, Sterns dis-Late in the afternoon, Sterns dis-covered that the bills were gone, and there was no other way to figure it out than that they had been stolen by some one who had managed to get the combination.

In the old village hotel that even ing there was anxiety; we looked into each other's faces questioningly; somewhere in our midst was the thief. I noticed that Richard Man-ston, a nephew of the proprietor, was very active in the attempt to locate the thief; and it was he who first di-rected attention to Jeb.

We knew the man simply by that He was grey and old, bent quiet of face and manner, and simple of mind; and his duties were that of general caretaker and man of all work about the place.

Manston and Jeb had always been the best of friends, though it was rather a one-sided friendship in many ways; but the old man loved the young fellow with the simple unquestioning love that we see sometimes beween men in the friendships that brighten the world

The situation looked black for Jeb immediately; for it was soon learned that he had been working in the corridor just off the office about the time the salesman was explaining the combination. Sterns looked grim and savage as he listened to the maid's story of having seen him there. He sent word to the barn to have the old man sent in.

man sent in.

He came in, bent and wrinkled his crooked fingers shuffling the old frayed cap in his hand. He looked at us with faded, wondering eyes as we

faced him.

faced him. Quick and sharp came Sterns' ques-tion. "Jeb, were you working out there in the hall this afternoon?" "Yes, sir," the old man mumbled, his eyes searching our faces hesi-

tatingly as if to seek a sympathizing face; then I saw his pleading glance swing straight to Manston and bright-

en, but Manston turned away.
On the questions went, curt and merciless, up to the final one. Sterns' hand was leveled toward him, and the bld man quailed. "Did you steal that money?" Sterns demanded.

his slightest wish from boyhood up, eeming to enjoy himself the most when he was doing something for the young fellow. Manston looked worried and preoccupied for many days after the old man had been commitafter the old man had been commit-ted to jail. His attitude evidently bothered Sterns, for narrow as were the confines of the man's heart, he had a big place there for his tall, handsome nephew. Sterns attempted to cheer him up, but worry did not leave the young face, and on the morning of the day when the old man was to be tried, he looked as if his mind were heavily burdened. The old man was brought in, look

ing a little more bent, greyer, and more feeble, and given his seat un-der the eye of the sheriff. He sat quiethe eye of the sheriff. He sat quietly, his attitude the consumma-tion of despair, his crooked fingers fumbling nervously the same frayed cap, and his faded blue eyes looking seemed almost unseeingly at the

The trial went on, and slowly the net of circumstantial evidence was drawn around him. The young law-

door of the court room.

Sterns glared at Jeb. "If you did not, who did? Do you know? You yer who had been appointed to de-

A Reward of Patient Industry That is Worth While

residence as handsome as this, that of Mr. Wm. Herron, of Halton Co., Ont., would attract attention in a good sized city. Homes such as this make the industry and thrift that it takes to get them well worth while.

-Photo by an editor of Farm and Dairy.

were the only one near the office be-sides us—say, do you know? Speak up!"

I saw a shadowy look of relief flit across Manston's face.

The old man's lips moved trem-

The old man's lips moved trem-blingly, but he kept silent.

The town sheriff, who had been called into the case, came in, and whispered something into Sterns' ear. Sterns whirled on the old man, "Jeb, you're lying—you miserable accorder! Where Where did you get that money you spent down town?" he demanded.

Jeb's fingers played nervously with his frayed cap. "I had been savin" it a long time—I—" But he went no it a long time—I—" But he went no further; something seemed to lay a

"Saved it." Sterns repeated with sarcasm, "that's likely. It's jail for you—that's all!"

The cap slipped from the old man's fingers to the floor. "No, Mister Sterns, not that—not that—I—." Sterns, not that—not that—1—."
Again something seemed to stay his speech; he said no more.
"Lock him up!" Sterns said, shortly.
"I'll teach him!"

The sheriff caught the old man by bling and wavering toward the door: and they went out into the night.

The next day bail was fixed, and Jeb went to the county jail, for Sterns wouldn't permit Manston to offer bail as the young fellow wished. Life set-On the questions went, curt and merciless, up to the final officers, the first section of the control of the co

fend him went after the evidence vic iously and made good headway, but as he announced, he was handicapped by Jeb's refusal to assist him. It seemed to me he made a great blun-der in saying that, but it looked dif-ferently when in his closing for the defence, he made the fact stand out that in his opinion the old man was shielding another.

Then the prosecutor began the final address, and swept briefly and sonorously over the evidence, and, realizing as he went on that he must overcome the strong appeal of the young lawyer with its mute but eloquent support in the old man, he turned on the old man with keen and cutting sarcasm, setting forth the years he had been trusted, the kindness that had been shown him, the home that had been given him-then to turn and deliberately steal from the man who had befriended him! Sharper and deeper went the lance thrusts of the sarcasm; and the old man drop-ped beneath them. The grey head with its whitening temples sank lower and lower until the wrinkled face was hidden; the worn cap slipped from numb fingers to the floor, and down the furrowed cheeks crept

Then something happened.
A tall young fellow strode down the aisle into the lawyers' space. I saw

he was Manston
"Enough of this!" he cried, and "Enough of this!" he cried, and his voice though hoarse was strong. "That old man didn't steal the money; he's doing this to shield me— to shield me—do you hear! I did—" to sheld me—do you hear? I did— He paised, choking, then went on in a hard voice. "I was down cellar when that combination was being explained, and I heard all the conver-sation. I went upstairs later when

there was no one around. opened the register; and the old man saw me. He didn't steal; he took the blame to shield me; he's been my friend for twenty-six years, and I am his. I've stood this long enough! Free him! I am the man you want."

"His voice ran down to a whisper, and he sank into a chair, his flushed

face slowly growing white.

What we thought who listened one What we thought who have a can imagine, but everything seemed can imagine, but everything seemed can imagine, but everything seemed pounded for order and his deputies finally secured it. The old man had finally secured it. The old man had slid forward in his seat, his eyes fastened with great joy on the form of the lad he loved, and the look on his face was such as it seems the thief must have given Christ on the cross

Sterns had sat rigid as a marble statue while Manston spoke; then rose slowly and went over to Manston. He put one hand on the young fellow's shoulder. His face was drawn with emotion.

Suddenly, a man, dusty and covfrom a horse ridden hard, hurried up the aisle and handed Sterns a paper. Sterns' hand shook so that he could hardly read it, slowly then teverishly, and he turned to the pro-secuting attorney. He talked with secuting attorney. He talked with him a long time, then with Manston. The lawyer's face underwent many changes of expresion

Quiet was ordered by the sheriff. and the lawver rose. His voice had lost its sonorous ring, and carried a

lost its sonorous ring, and carried a trill of gentle meaning.
"Your Honor," he said, addressing the judge, "I have learned of a friend-ship almost beyond belief.
"It seems that this old man is in-nocent; he was shielding the good name of a man he loved, supposing and believing that man guilty. Now it appears that Manston was not guilty, but confesses himself so in order to save the old man from dis-grace and imprisonment, which might mean death. mean death.

"It appears that Manston did learn the combination while he was busy in the cellar, heard the combination explained, and did open the register, led by a boyish purpose to see whethled by a boyish purpose to see whether he could or not, and was seen by the old man; but neither can be charged with crime-for, to-day, Mr. Sterns was compelled to send for an agent of the register makers, because of the continual ill-working of the machine, and the expert found not an hour ago, the missing bills jammed in back of and above the sliding drawer.

drawer.
"Your Honor, I move that the de-fendant be discharged."



CUMMER-DOWSWELL, LIMITED

********* The Upw Moses' H

October 3, 191

And Moses said ny Lord, I am no heretofore nor since unto thy servant; speech, and of Exodus 4, 10.

These halting, h Moses contain mue who dwell in a cor Moses as the m who worked great Egyptians and befo who later led their bondage and difficulties up to the promised land. It entered upon his passed an or ing as we are and ed with God not to the things th im he desired him When we think o

which Moses was pl wonder. He belong race of slaves. The mighty nation who nothing. that he had been b orced to flee out of orty years he had



************ The Upward Look Moses' Hesitancy

And Moses said unto the Lord, C my Lord, I am not eloquent, neither heretofre nor since thou hast spoken unto thy servant; but I am slow of speech, and of a slow tongue.— Exodus 4, 10.

These halting, hesitating words of These halting, hesitating words of Moses contain much comfort for us who dwell in a consciousness of our own weakness. We are prone to think of Moses as the mighty man of God who worked great wonders before the Egyptians and before his own people, and who later led the latter out of their bondage and through all their difficulties up to the borders of the their bondage and through all their difficulties up to the borders of the promised land. It is a revelation to us, therefore, to find that before he entered upon his grand mission he was just such an ordinary human being as we are and that he was so conscious of his failings that he pleaded with God not to ask him to under-take the things that God had told

him he desired him to do.

When we think of the position in which Moses was placed we need not wonder. He belonged to a despised of slaves. They were ruled by a mighty nation, whose cruelty stop-ped at nothing. While it is true ped at nothing. While it is true that he had been brought up by the daughter of their king, he had been forced to flee out of the land and for orty years he had lived in a remote

country district out of touch with the country district out of touch with the courts of the king and forgotten by his own people. Well may his heart have failed him, therefore, when he realized that God desired him to stand have tailed nim, increase, when a realized that God desired him to stand before that great king and nation and to act as the leader of the Israelites in bringing them forth out of their bondage. Neither is it surprising that he should have replied unto God; "Who am I that! should go unto Pharaoh, and that! should pring forth the children of Israel." Exodus 5.11.) Or that he should ask what he should ask him who he was. IExodus 3,11. in capable Moses felt lines if the of performing the great thask that lay before him is shown, also, by his fear that the people would also, by his fear that the people would not listen to him. This led him to not listen to him. This led him to

also, by his fear that the people would not listen to him. This led him to say, "but, behold, they will not be-lieve me, nor hearken untom wy otice; for they will say, The Lord hath not appeared unto thee."

How like we are unto Moses! and with how much less excuse! There are many little tasks which God's

voice whispers to us we should un-dertake for Him, but we hang back fearful and dismayed. Like Moses we allow Satan to convince us that we are not eloquent, that we are slow of speech and of slow tongue, and we conclude that the people will not beleve us nor listen to us. We forget all about God's reply to Moses, "And the Lord said unto him, Who hath made man's mouth? Or who maketh the dumb or deaf or the seeing or the

blind? Have not I the Lord? Now, therefore, go, and I will be with thy mouth, and teach thee what thou shalt say."—(Exodus 4, 11.)
God's message to Moses is His message to us. As He had work for Moses to do so He has for us. He has told us to be doers of the word and not hearers only, thereby deceiving ourselves (James 1, 22). And as He promised to help Moses so He has promised to help us and to teach us what we shall say. "But the Comforter, which is the Holy, Ghost forter, which is the Holy, Ghost us what we shall say: But the Con-forter, which is the Holy, Ghost whom the Father will send in my name, he shall teach you all things,

name, he shall teach you all things, and bring all things to your remembrance, whatsoever I have said unto you. (St. John, 14, 26).

When, therefore, we have some task to perform for Christ, be it little or great, either abroad or in our own or great, either abroad or in our own homes, let us remember Mosses' weak-ness and his fears and how greatly God used him, and then let us re-member Christ's words to Thomas, "be not faithless, but believing." (St. John, 20 27.) When we learn to (St. John, 20 2c.) When we learn to forget our shortcomings and to remember God's infinite power our fears will be dishelled as the mist before the sun.—I.H.N.

The Other Side

We go our ways in life too much alone: We hold ourselves too far from all our kind;

Too often, are we deaf to sigh and moan,
Too often to the weak and helpless

blind

Too often, where distress and want We turn and pass on the other

The other side is trodden smooth and worn

By footsteps passing idly all the day; Where lie the bruised ones and the faint and torn

Is seldom more than an untrodden way. Our selfish hearts are fer our feet the

guide, They lead us by upon the other side.

It should be ours, the oil, the wine to

Into the bleeding wounds of stricken

To lift the smitten, and the sick and

And bear them where a stream of mercy runs.
Instead, we look about; the way is wide,

And so we pass upon the other side.

Oh, friends and brothers hastening

down the years, Humanity is calling each and all In tender accents, born of pain and tears: I pray you listen to the thrilling call.

You cannot in your selfishness and pride. Pass guiltless on the other side.

-A. A. Hopkins.



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GOLLARS

What To Teach a Girl

her to arrange the parlor and the library.

nd the library.
Teach her to say "No" and mean,
, or "Yes" and stick to it.
Teach her how to wear a calico
ress, and wear it like a queen. Teach her how to sew on buttons,

arn stockings, and mend gloves Teach her to dress for health and

Teach her to dress for health and comfort as well as for appearance.

Teach her to cultivate flowers and to keep the kitchen garden.

Teach her to have the neatest room

in the house Teach her to have nothing to do with intemperate or dissolute young

Teach her that tight lacing is un-comely as well as injurious to health. Teach her to regard morals and habits and not money when selecting

"Oh! I couldn't keep in practice after baby came; I haven't a minute to myself."

You have all heard it; perhaps some you have said it. Even if one's of you have said it. time is so occupied that the little why not at least try to held on to it? Surely one can keep in touch, if unable to practice regularly. Deterable to practice regularly. mination and economy in the spare minutes will accomplish much one starts with the idea that they will try to retain what they already know sometimes they wake up to find they have really made an advance (there was no such thing as standing still,

TAKE THE TROUBLE to get well acquainted with your children, and to interest yourself in their pastimes. By this means they will learn to trust and confide in you, and are not easily led away by outside influence.

Teach her to observe the old rule, after all), and the advance is usually A place for everything and everying in its place."

after all), and the advance is usually due to the development of character which results from the experience of

thing in its place."

Teach her the important truism That the more she lives within her income the more she will save, and the further away from the poorhouse.

Teach her that music, drawing, and painting are real accomplishments in the home, and are not to be neglected if there is time and money for their . . .

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lenge" Collars can be cleaned and a rub from a wet cloth—smart and dressy always. The correct dull

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te us enclosing money, 25c, for collars pe, prin for cuffs. We will supply Send for new style book.

S' AWRENCE

EXTRA

It is to be regretted that so many omen in the ordinary walks of life

wifehood and motherhood. TEN MINUTES EACH DAY

Think one moment There are 1440 minutes in the day, probably two-thirds of them of the waking hours. Out of these 960 minutes can you not spare an average of 10 to 15 minutes for self-improvement?

If the gift is music, that wonderful

If the gift is music, that wonderful baby may be accustomed to it from the very first. I have a case in mind where the young mother a piano teacher, trained her child in this way, even to the extent of making no dif-ference when he was put into his crib for the nap or his night sleep. piano was not to be kept quiet for him, unless he were sick, and many a night has he gone to dreamland to the music of scales and five-finger exercises, for he slept in the next room to the music room. She tried only to keep what she already had, give sufficient lessons cure pin money — but found her reward in being able to resume her cld life of music when one year ago her husband was suddenly taken from her, and she was obliged to supplement the income he left her.

PLEASURE FOR OTHERS To be independent in meeting finan-cial disaster is important, but there are other reasons for treasuring the talent. It is a joy all along the way, a diversion in time of stress and disuragement, when we need to get right out of ourselves, and it is a sal-vation in time of heartbreak. It is power, too. That a woman has been able to keep up some special study through the strain of bringing up a family, often through financial em-barrassment, commands both respect and admiration. What a convenand admiration. What a convenience, also, to be able to step into the breach when the professional misses her train connections! One of the in pleasure we can give to our nearest and dearest. The hard more pride in your beautiful voice than you can possibly imagine, and as for the children, we could cite many teuching and amusing in-stances which prove their profound regard of their mother's ability.

There is one last reason for the effort toward the preservation of your special gift. Think of the home folks! Possibly you will never know just how much they sacrified in order that you might have the best instruc-tion. Many a father and mother "went without" even the necessaries life while their child was away at the college or conservatory, and toes

relinquish, sometimes lightly, the lit- how hurt they have been over the tle gift that is so closely identified neglected talent. Before you decide with their personality, which, as a that you "haven't a minute," so matter of fact, constitutes one their strongest charms. hegicitist in that you "haven't a minute, go back, I beg of you, in memory to the night you made your debut in the heme town; think of their happ, heme town; think of their happ, heme town; think of their happ, heme town; the same and make them the heme town; think of their happy, shining faces and make them the beacon light that holds you to your purpose of cherishing that God-given talent.—New England Homestead. ...

The Valuable Lemon

The lemon is a palatable medicine and one that that 's especially good for For thick, sluggish blood the blood. and an inactive liver, the juice lemon in a glass of water every mor ing on rising is a most beneficia tonic. The lemon juice should be taken without sugar and drunk at least half an hour before eating, to give it time to be absorbed into the stem before anything is taken into the stomach As a drink hot or cold lemonade

still stands first on the list of drinks.
In combination with other foods and fruits it is also both refreshing and stimulating. A few tablespoon-fuls of lemon juice in barley water is

a splendid drink for the sick.

There is a zest about a dish of lemon jelly to be served with different meats (fish and poultry), which is especially pleasing.

When serving bananas and orange fruits that are nearly always on the market—a bit of lemon juice squeezed over the fruit brings out the flavor of

************** THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes,etc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Ont. _______

Spiced Grapes.-For 6 lbs grapes allow 4 lbs, sugar, 1 pt. vine gar ,2 tablespoons cinnamon, ; tablespoon cloves. Cook fruit tender, then add other ingredien and simme rfor 21/2 hours. A fi relish served with cold meat.

Beet Pickles .- Cut cooked beets to squares. Fill qt. cans two-thirds into squares. Fill qt. cans two-third full. Over these pour vinegar boi ing hot, seasoned to taste—½ cu sugar, I tablepoon salt, ½ teaspoor each of cinnamon, cloves, and celen seed for each qt. of vinegar, make good proportion

Sweet Fruit Pickle.-This peaches, apples or pears. About 4 pts. water, 1 pt. vinegar, 3½ pts. sugar, 1 teaspoon each of mace, cirsugar, I teaspoon each of mace, the namon and cloves (tie spices in a cloth). Steam the fruit, which should weigh 7 lbs. after it is prepared. Boil the syrup until quite thick. Drop in the steamed fruit. Cook a fee minutes and can

Baked Canned Pears .- Select sma seckel or August pears, wash and dradiscarding all imperfect ones, fill a porcelain-lined baking pan with the fruit and add a little water. Cover the pan and bake until done. turn them over into glass jars and pour over them a thick syrup made by boiling together 15 minutes on sugar and one pt. water.

A Nice Breakfast Dish.—Mino cold beef or lamb. If beef put in pinch of pulverized cloves; if lamb a pinch of sumer savoury to season pinch of pulverized cloves; it laims a pinch of sumer savoury to scassit, very little pepper and some sakend put it in a baking dish; mas poratoes and mix them with creat and butter and a little salt, as spread them over the meat; beat we should be sufficiently a very sufficient or milk. A very sufficient or milk a very sufficie egg with cream or milk, spread it over the and bake it a short time, sufficient warm it through and brown the pol

October 3, 1

From all Sta To certai

Alberta B California M Montana W Arizona Id Sept. 25

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Good Substitutes for Meat

"If beef is too expensive, eat beans," advises Dr. R. E. Doolittle, acting chief of the Bureau of Chemacting chief of the Bureau of Chemistry of the Department of Agriculture. "Beans are for beef, One should not eat meat, anyway, mere than the state of the period of course, upon the period of the person. Hard workers need more meat than those in sedentary work. It seems to me the harder a man meas than those in sedentary work. It seems to me the harder a man works and the lower his wages, the more meat he needs. Meat contains a great amount of protein. Protein is the muscle forming element of

food.
"But beans are high in protein percentage. Not canned beans, but baked beans are the best. Canned vegetables of all kinds are developed fresh. Other good as fresh. Other good substitutes for meat, of high protein are peas all kinds of one. tent, are peas, all kinds of nuts, cheese and milk.

PLENTY OF VEGETABLES

"While I am not alvocating a strict vegetaria diet as the only and best vegetaria diet as the only and best course to put an in favor of the substitution of an in favor of the substitution of the substituti

o meat substitute, but as a rule nan prices follow those of meat. "After all, beans and peas are the best of all for a meatless diet, but if you feel like it and your pocketbook can afford it, eat meat not more than once a day." . . .

Women's Institute Convention

The annual Provincial Convention for Ontario Women's Institutes will be held in Toronto the second week of November. The definite dates of nield in Foronto the second week of November. The definite dates have not vet been chosen. Plans are being made to secure some outside talent for the Convention, and a large number of our most prominent and capable workers in Ontario will take part. Provision will be made for an part. Provision will be made for an open discussion on many matters of vital interest to the Institutes. Note inces will be sent direct to each ciscs will be sent direct to each vince should be represented at this gathering which holds such a prominent place in the Institute work. It would be well for the Institutes to anopoint delegates in good time. appoint delegates in good time.

A Lineleum Hint

A good suggestion to improve the appearance of linoleum is to go over it occasionally with a cloth that has been dipped in oil which drips from the separator. All separators may the separator. All separators m not be alike in this respect, but

not be alike in this respect, but a great many have a little oan in the lower part of the base into which the oil drips. This must not be used over again in the separator, though it makes a good oil for farm implements. But now, one finds a new use for it in oiling linoleum.

Anyone who has had experience with an oiled floor knows that the dust does not fly as it does on one that is not oiled, and this is true with linoleum, so that one need not wash or mop it nearly so often. Where one has no waste oil, linseed oil would be best to use. Of course, one should not put on enough to leave a should not put on enough to leave a should not put on enough to leave a greasy, smeary appearance, but simply wipe it over with an oil moistened

Kerosene will soften boots and shoes that have been hardened by water and makes them as pliable as new.

Recesectedesectedesects Recesectedesectedesectedes **Embroidery Designs**



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Designs for Initial Frames, suitable for Handkerchief Corners or an Object requiring a Small Initial. Two transfers of each design are given.



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If a porcelain baking dish becomes discolored on the inside, fill it with buttermilk and let it stand for twe for three days. The acid in the milk will remove all semblance of stain.

The Sewing Room

Patterns 10 cents each. Order by number, and size. If for children give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern Denent. Total and the state of th

under food

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Drawer hat a re
wide enough for freedom and comfort, yet
the hips are those
perfectly smooth over
seen fashions. These
perfectly fulfil the
requirements whether
hey are finished with
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under-faced.

For the medium size, the drawers will require 2 yards of material 35 or 44 inches wide with 2.14 yards of embroidery fellis and 1.58 yards of beading, to trim as illustrated is cut in sizes for 22, 24, 25, 25, 29, and 32 waist measure.

CHILD'S COAT, 7530

Coats for the wee tots are always in demand. On the figure one is shown with the cape, the roun the cape, the round collar and the cuffs scalloped and button-holed and with the skirt tucked to take up the fullness and it is exceedingly at tractive. The little cape may be omitted altogether and the akirt can be gathered instead of tucked instead of tucked instead of tucked.

instead of tucked.

For the medium size, the coat will require 3 yards of material 27 inches wide, 23-8 yards 36 or 44, with 81-2 yards of braid to trim as shown in back view. This pattern is cut in sizes for chil-dren of 6 months and 1 year.

SURPLICE BLOUSE, 7500



TI size, the blouse will require 312 yards of bordered material 16 inches wide or 324 yards of plain 27, 134 yards 12 yards of plain 27, 134 yards 26 or 112 yards 44 inches wide with 58 yard 18 inches wide with 58 yard 18 inches wide for the centre portions. This pattern is cut in size or 34, 36, 33, 40 and 42 inch bust measure.

COVER FOR MISSES AND SMALL WOMEN, 7528



There are certain advantages in the corset cover that closes at the back, which are apparent at a glance. As this one can be finished in this way or with the regulation front There the regulation front closing, it is adapted for wear beneath the for wear beneath the blouse of all kinds of are seeking as lender of the seeking as lender of the seeking as lender of the seeking as possible will like the seeking beginn attached to the lower edge, but when the figure but when the figure occupant of the seeking beginning the seeking beginning the seeking as lender of the seeking as lender of the seeking the seek

waist line and draw it up by means of tape and a casing. Let core to over For the medium size the corset one For the medium size of material 36 or 1 yard 44 inches wide, with 51-4 yards of banding and 3 yards of edging. This pattern is cut in sizes for misses of 14, 16 and 18 years.

He Bought Her a 1900 Washer

ONE OF OUR READERS TELLS HOW HER HUSBAND LEARNED

What Washday Means to a Woman

rrons—Most men have no realization | about?" I looked up their advertisement and sab-da." neans to a woman. My found the following address: see when I saked hiz on ed day to get

washing in for a family of five one, and the washing, with all and a feer things had gone at a for pearly two weeks, I sugat the had better do the washing. John's "Busy Day

uite a sick spell, and after timing a had gone at sea and sevens for nearly two weeks, I sug-sess and sevens for nearly two weeks, I sug-sess and the season of the washing, as e situation was desperate.

So one morning he started it. My, what a com-cion there was in the kitchem! From my bed-om I occasionally caught glimpses of poor he struggling with that mountain of dirty he struggling with that mountain of dirty

John struggling with that mountain of cirry Libra, am should like "exercise" be watted, why husband was that man! Couldn't help feel-ing sorry for him, and yet if made me laugh, for I remembered how he made fun of me when I limited so attempty for a 100 Gravity Washer. Hinde of the country for a 100 Gravity Washer. Use, he was jost about "all in." That evening John came to my room, and sald kind of sheepishly—"What's then ame of the firm that makes those washers you were telling me!

I. M. MORRIS, Manager, The 1900 Washer Co. 357 Yonge St., Toronto, Can.

That's all he said, but he lost no time in sending for their Free Washer Block. The book came
in due time and with it an offer to send the 1300
in due time and with it an offer to send the 1300
hashand jumped at the chance to try, the Washer
without having to spend a cent. "We'll have
we don't decide to keep it," he said! So he told
to Company to send on the Washer
we don't decide to keep it," he said! So he told
to Company to send on the Washer
it is little easy payments. The next week I feel
the send promptly, all charges paid, and the
it is little easy payments. The next week I feel
well enough to use it. It is the nices! Washer I
sel minutes to wash a tubicli, and the garments
come out spotlessly clean.
Washer, and worde to the Company
that we would keep it and accept their garm
that we would keep it and accept their
week. We paid for it without ever

on the old-fashioned only too glad to get on free trial, by first

ting for the Washer Book. xcuse me for writing such a long letter, but I se, Mr. Editor, you will print it for the benefit he women readers of your valuable paper. Sincerely yours, MRS. J. H. SMITH.

Your Boy's Room

Inez Cooper
Look it over. Is it given the care
and thought your girl's is? You
say it "doesn't matter so much."
Doesn't it though? Just try him. He
is so reserved that it would perhaps
surprise you to know that there is a bitter rankling of injustice in his bosom because you gave Helen the room with the south window and Sally the one with the alcove—that "bully" alcove where he would so like to spread and arrange all his Indian relics and bugs

relics and bugs!

If you do give him a room, no matter how fine or how poor, allow him to fix it to suit himself. Pause a moment and consider how you would enjoy having him fix your room and be governed accordingly.

Don't, if you want to keep his condence, refer to his belongings as trash, and if he keeps them in his room do not allow the other members.

of the family to comment unfavorably on his things

weeds with no injury to itself, and even grass can't entirely choke it out when once started.

PLEASURES FROM APPLE ORCHARD Two dozen raspberry or blackberr bushes cost from 25 to 50 cents an will astonish you with the amount of will astonish you with the amound fruit they produce. Grapes, peoches pears, cherries, plums, currants, ag gooseberries are all easily and quickly grown, some fruiting the second vear after planting. No farm is nag complete without a small apple, chard. The farmer who feels contest to miss all the pleasures inspired be a succession of apples beginning in August and Astrachans, Yellow Hyests and Sweet Boughs righthrough to warm weather alme with Northern Spys, Russets, etc.

with Northern Spys, Russets, must be lacking something. Isn't there a sandy corners where on the place where welons and muskmelons will g Oh, how good these home-gr melons are! How we girls used look forward, all through the l

Effects of Good Residue

HILDHOOD is truly the time to acquire knowledge; a healthy child is neverall life ride. Every moment he to awake he is learning something. Any all his knowledge of the world is gained through his five senses, or six, as some people count them, but he learns most, as we all do, from what he sees, and from reading. Before he knows one letter from another he will look at pictures for an hour at a time and if he can find anyone to read or tell him about what he sees, his tongue is as busy as the eyes. His little brismust do some thicking to keep both members busy. What he learns from a picture book cannot be Car old amount to read, if he is not provided with reading

picture book cannot be calculated.

As soon as the child is old enough to read, if he is not provided with reading material, there are only two ways for him to do, either to find books and papers for himself, or over his mine in some other way. As what a child reads has about when the provided in the

long regret.

Though few lads will show it, boys re very easily teased and most but has resnitive about remarks melons at the end. Then, while are very easily teased and most youths are sensitive about remarks from the family. Give the family to understand, especially when he is possessed with the collecting mania peculiar to adolescence, that remarking on things in his domain is considered and treated as meddling.

PART OF EDUCATION

Shall we dare to call trash those bugs and things which he is collect-ing and hoarding and which are do-ing so much to educate him? Could we be so foolish as to regard as usethose rods and accoutrements which are such a source of pleasure to him and which hold such draw-ing powers when mischief calls in another direction?

another direction? Everyone knows that you love your boy as well as you do your girl. Just show him the small courtesy as to his room, sports and private affairs that you do to her and demand that all the members of the family shall do the same—and then set back and watch, results! They will come.— New England Homestead.

. . . Farm Goodies

Farm Goodies

Not long ago I heard a farmers's wife say that every woman should have the best that go in her garden, says are in the Farmers' Revine of fruits, for, with the possible exception of strawberries, when the plants or trees are once put out they will produce something at least, even though badly neglected. Every woman with little children should have a kitchen garden made and taken care of by the men. But it is easier said than done to persuade some men that they should spend any time over garden truck.

An asparagus bed of say three

any time over garoen trucs.

An asparagus bed of say three dozen plants will furnish a medium sized family with that delicious vegetable twice a week for two months, and it takes almost no care. Asparagus will stand enough salt to kill all ployed in making one curtain.

was far from an elegant way of de was far from an elegant way of dois
we each took a spoon and a h
melon and, curled up on the grau
more. When I grew up and wen
college the thing I missed most so
my abundant supply of fruit.
THE VALUE OF PARM RESOURCES
We who live on the farm are
inclined to value our resources the
until we attempt to do without the
or if we have never developed the

or, if we have never developed th of course, we do not know how m we are missing.

A man, spending twelve hounday in the open air may sit do day in the open air may sit on with a perfect relish to pork a beans, but the wife, whose hours a mostly spent indoors, craves a should have as her farm herlightese easily grown delicacies. . . .

Bedroom Curtains

In making curtains for the beds In makine curtains for the bedwindows one can economize in terial by selecting Swiss or scrim width of the window. Now meas off the length you desire the cut and cut the material from corner corner on the bias. In other we cut from the lower left-hand corner to the upper right-hand corner. To this bias edge apply a right of the material or of coarse lace. Finish the joining seam neatly stitching a strip of feather-stift bridder of the strip of feather-stift bridder on anyone bias fold over tuffle and seam edge. Now finish the broad straight of the strip of t

ruffle and seam edge.

Now finish the broad straight of the top with a hem and name casing, through which is run a with length of the width of the width.

The curtains are then ship over the lape or small brass rods a strached to the windows.

HOLS RIVERVI

October 3, 19

Offers Bull Calf, di old; her dam a 27 \$\frac{1}{2}\$ lb. cow. Sire whose dam and h Gdam of his sire 30.17 each. Also a P. J. SALLEY - LA

Forest Rid

A few sons of K sale, from tested de sidering quality. Also a few Heifers Write us for wha come and see them for sale. L. H. LIPSITT, STI

LYNDALE We are now off months old, one fro Jewel Hengerveld 5r nearest dams, incl nearest dams, inci-years, average over 7 days. The othe daughter of De Kol His 3 nearest dams each We also offer BROWN BROS., .

LILAC HOL Offers yo



HOLS No matter wi

Holsteins may be the live Holstein He is always p

Write, or con T. H. RUSSE

0 Hols

The first 31 lb. coveloped here. The chat contains a 128%
The only herd in Grear-olds with first of year-olds with first alba butter in 7 days also the only herd i 5 junior two-year-old P. 13,172 lbs. milk, 5 If you want to rai secure a bull ready calf, all sired by our est dams average 31 days.

EDMUND LAID ELGIN COUNTY, AYL

"LES CKENA HOLSTEINS-Winner t the pail. Gold Me

Fair.
They combine Con uction.
Bull and Heifer Or ners for sale. DR. L. DE L. HARWO

May Echo #

Her son, Sir Echo, calves of rich breed Write for full descome and taspect. We also offer Clyde old stallions, 18 marer all excellent individualing

Also Hackneys, two old and one 4 years of years old, and one r We will be pleased to an creeding, description and;

ALLISON ST

W. P. Allison



912.

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An'

ad or brain om a

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s not

HOLSTEINS RIVERVIEW HERD

fers Bull Caif, dam 15.98 lbs. jr. 2-year-d; her dam a 27 lb. cow and G.dam a lb. cow. Sire King Isabella Walker, hose dam and her daughter, dam and dam of his sire average for the four 17 each. Also a few A.R.O. cows. P. J. SALLEY - LACHINE RAPIDS, QUE.

Forest Ridge Holsteins

A few sons of King Segis Pietertje for sale, from tested dams. Priced right con-didering quality.

Also a few Heifers bred to him for sale, write us for what you want, or better, some and see them. Anything we own is

L. H. LIPSITT, STRAFFORDVILLE, ONT.

LYNDALE HOLSTEINS
We are now offering 2 Bulls, nine
souths old, one from a daughter of Sara
serel Hengerveld Srd, A. R. G. 52.8. His 4
serel Hengerveld Srd, A. R. G. 52.8. His 4
sars, average over 27 lib. butter each in
days. The other is from a granddays. The other is from a granddays. The other is from a granddays. The other is from a granddays of the same over 20%; lib.
sech We also offer females are save as the
control of the same of BROWN BROS., . . LYN, ONT.

LILAC HOLSTEIN FARM

Offers young stock, One or a

W. FRED. STURGEON Glen Buell, Ont.

Bellamy's Stn., 'C. P. R. Brockville, G. T. R.

HOLSTEINS

No matter what your needs in Holsteins may be, see RUSSELL, the live Holstein man.

He is always prepared to furnish anything in Holsteins.

Write, or come and inspect

T. H. RUSSELL Geneva, Ohio,

Ourvilla Holstein Herd

The first 31 th. cow in Canada was de-veloped here. The only herd in Canada that contains a 125% ib. 30/49 cow.

The first 31 the contained where 12 the con-parable with dim Canada where 12 the con-parable with dim Canada containing the butter in 7 days have been downloped, also the only herd in Canada containing the butter in 7 days have been downloped, also the only herd in Canada containing the butter of the containing the con-laining the containing the containing the 11 you want to raise some of this kind scure a built ready for service or built cent a first built with the containing the con-cept days the containing the containing the con-taining the containing the containing the containing the containing the con-taining the containing t

EDMUND LAIDLAW & SONS. ELGIN COUNTY, AYLMER WEST . ONT.

"LES CKENAUX FARMS"

VAUDREUIL, QUE.
HOLSTEINS-Winners-in the ring and
the pail. Gold Medal herd at Ottawa

They combine Conformation and Pron. and Heifer Calves from our win-Bull and Heller burners for sale. ners for sale. DR. L. DE L. HARWOOD. D. BODEN, Man.

May Echo Has Made 31.34 lbs. butter in 7 days and 726.6 lbs. milk in official work.

Her son, Sir Echo, also several Bull calves of rich breeding, are for sale, write for full descriptions, or better, come and *aspect. Later offer Clydesdates, 3 four-year-ment of the control of the control of the strong the control of the control of the control all coolient individuals of popular breed-ing.

ng.
Also Hackneys, two stallions, 3 years
did and one 4 years old, and two mares,
years old, and one mare, 4 years old. We will be pleased to answer your enquiry as to reeding, description and price.

ALLISON STOCK FARM W. P. Allison

MARKET REVIEW AND FORECAST

cent. WHEAT
Prospects are bright for the wheat market. From the west advices state that the railways are seen to accelent shape for handling the grains accelent shape for handling the grains are seen to accele the railways expected by the seen to see the seen already declined. Present prices quoted by local dealers are as follows: No. 1 Northern, 81.05; No. 2 81.04; feed wheat, 10.2 old. 97c; No. 3, 98c to 85c as wheat. No. 2, 0.40, 97c; No. 3, 98c to 85c as Northern, \$100; No. 2 \$1.00; feed wheat, for a bushel at lake points; Ontario wheat, No. 2, old, \$70; No. 3, \$90; to \$90; a bushel in car lots outside. On the Farmers' Market, fall heat is quoted at \$6c to \$1 a bushel, and loose wheat at \$2c to \$5c a bushel.

COARSE GRAINS

There is brisk demand for cereals, and the partial failure of the oat crop has caused a stringency in the home article. In certain sections millers are importing on certain sections milers are importing outs from across the border. Prices as consistent of the control of th oats from across the border. Prices a

bushel.

Montreal prices are as follows: Canada
Western oats, No. 2, 54c to 55c; No. 3, 51c
to 52c; feed oats, 49c to 52c a bushel.

MILL STUFFS

MILL STUFFS
There is no change whetever in the price of mill feeds. Local quotations are:
Manitoba bran, \$22 to \$23 a ton; shorts, \$25 to \$25 a ton; shorts, \$25 to \$25 a ton; shorts, \$25 to \$25, ton; shorts, \$25 ton; sho

bran is quoted at \$23; shorts, \$27 a ton in HIDES AND WOOL

HDES AND WOOL

There was a noteworthy article in the
Toronto Globe of Friday last in reference
to the wool industry, showing that the
enterprise is devinding in a most alarming namer. Froe causes are ascribed for
ing namer. Froe causes are ascribed for
the number of sheep in Canada all
years ago was 3,08,578. To-day it is
stated that this has decreased by nearly
to the United States amounted to 7,000
to the United States amounted to 7,000
pounds. Last year they amounted to

pounds. Last year they amounted to 416,166, or about one-twentieth. This is a deplorable state of affairs.

Local dealers make the following quo-tations: Wool, unwashed, 13 1-2c to 15 1-2c; wool, washed, 20c to 24c; rejects, 16c a

lb. Hides are quoted as follows: No. 1, steers and cows, 15c; No. 2, 15c; No. 5, 11c a lb. Country stock quotations are: Cured hides, 15c to 14c; green hides, 15c to 15c; horse hides, 15c to 15c; horse hides, 15c to 15c; horse hides, 15c at 15c; hard with the country of the c

TOCK FARM

The demand for hay is steady, but

Chesterville, Ont. prices are about the same as last week.

gree for registration.

Send description and price to FARM AND DAIRY, Peterboro, Ont.

Harry B. Davis

A New York State breeder started with the popular Holstein cattle onl 6½ years ago. To-day he stands right on the top rung of success.

His herd is worth probably \$40,000 to-day, yet when he started he had no money; he bought his first Holsteins on his note

Early in his experience with Hol-steins he bought a half interest in great Pontiac Korndyke, for which he

Paid \$2,500.00

An Editor of Farm and Dairy isited Mr. Davis last summer and btained at first hand facts as to its success. A leading article, ased on Mr. Davis' success, and based on Mr. Davis' success, and illustrated, will be in Farm and Dairy, October 17th. This issue will afford you a most

This issue will afford you a most excellent opportunity to advertise and make sale for your Holsteins. Fix up your advertisement now—a real good one—and send it to Farm and Dairy for that issue! Send it before the press days.

October 10 to 12.

HOLSTEINS

WILLOW BANK HOLSTEINS

A Daughter of Pontiac Hermes (5442)

and out of Imported Dam. Born April 15th. 199. Large, straight and nicely 15th. 199. Large, straight and nicely 15th. 199. Large, straight and nicely 15th. 199. Large, 15th. 199. Con-Large, 15th. 199. Large 15th. 199. Also a number of Young Bulls. One nearly ready for service, whose grand Tidy Abbekerk's Mercens Fosch (491). Prices low.

COLLVER V. ROBBINS, RIVERBEND, ONT Fenwick Station, T. H. B.

GLENDALE HOLSTEINS

GLENDALE HOLSTEINS
Ratire crop of pure-bred Holstein Bull
Gaives and a limited number of Heiters,
whose three nearest sires have sired May
Ethe Syris, over II lis. butter in 7 days,
cord). Lulk Reys. 19,368 lbs. in E.G.P. as
a senior two-year-old (world's record), and
Jewel Per Fosch De Kol. 328 lbs. butter
at 4 years (world's record). Prices reasonwered. All correspondence promptly am-

WM. A. SHAW, BOX 31. FOXBORO, ONT

LAKEVIEW HOLSTEINS

Offer Bull born Feb., 1912, sired by our son of Colantha Johanna Lad, and out of a helier that made over 15 lbs. butter in 7 days at under two years old. She is a daughter of Count Hengerveld Fayne De Kol, and her dam and dam's dam both have official records over 25 lbs. in 7 days. The 7 nearest dams of this young bull have official records that average 23.25

Write for extended pedigree and price. E. F. OSLER - BRONTE, ONT.



AVONDALE FARM HOLSTEINS

Yorkshire and Gorned Dorsets A. C. HARDY - Proprietor

SERVICE BULLS:

SERVICE BULLS:

KING PONTIAC ARTIS CAMADA—Sire
King of the Pontiace: dam. Fontiac
lbs. butter in 266 days: 7 days. 407
PRINCE HEMGERVELD PIETER—Sire,
Pleids Ends Woodersed Ldai; dam.
butter in 7 days: highest record daughter of Hongarveid Dakol.
Importal Smallen Torbahires from Prisedates and a correspondence to:

Address all correspondence to: H. LORNE LOGAN, Manager, Brockville, Out.

Notice: After 1st of October, 1912 kindly address all correspondence to VAUDREUIL, QUEBEC, instead of Manhard, Ont., where I will be in a better position to furnish my customers with No. 1 Holsteins.

Gordon H. Manhard - Vaudreuil, P. Q. FAIRVIEW FARMS HERD

Offers a splendid son of Rag Apple Korndyke, the young bull we recently sold for \$5,000.00, and out of a 21-pound daughter of Pontiac Korndyke (record made at 4

Caif is five months old, nicely marked and straight as a string, and I will sell him. Well worth the money.

WRITE ME POR PRICE, ETC.

E. H. DOLLAR, Heuvelton, New York (PRESCOTT)

BREEDER'S DIRECTORY

Oards under this head inserted at the rate of \$4.00 a line per year. Nord accepted under two lines nor for less than six months, or 26 insertions card accepted under twelve months.

YORKSHIRE PIGS, all ages, either sex, FOR TANWORTH SWINE-write John W. Choice young Boars, fit for service. Also Sows of all ages bred and heavy with pig-H. O. Benfield, Woodstook, Ontario.

HAMPSHIRE PIGS—Canadian Champion herd. Boar herd headers. Sows, three months and under.—Hastings Bros., Crosshill. Ont.

FOR SALE—2 Sons of King Favne Segis Clothilde, from R. O. P. cows. Also three Clyde Fillies and 3 Stallions, Yearlings. —R. M. Holtby, Manchester, Ont.

HOLSTEINS—Young stock for sale. Sired by Imperial Pauline DeKol, whose 15 nearest dams average 26.20 lbs. butter in 7 days.—R. W. Walker, Utica, Ont.

CLYDESDALES, Imp. Stallions and Fil-lies. Fresh importations always on hand. Every mare guaranteed in foal. —J. & J. Semple, Milverton, Ont., and Luverne, Minn., U.S.A.

MISCELLANEOUS Oxford Downs

A splendid lot of YOUNG RAMS of good size. Write for Prices. John D. Hayden Cobourg, Ont.

OXFORD DOWN SHEEP

For Sale, 1 Two Shear Ram, imported, 3 Shearling Rams. Also Rams, Lambs and Ewes of all ages. The Champion flock at Ottawa and Sherbrooke, 1911.

WEIR BROS., . . MALVERN, ONT.

Registered Oxford Down Sheep for sale. Large flock to select from. Splendid bunch of Ram Lambs, cheap.

Also Holstein Cattle, rich in Pontiac Ormsby's Butter Boy at head of herd-JACOB LAUGHEED, WODEHOUSE, ONT.

HOLSTEINS

LAKESIDE DAIRY AND STOCK FARM Present offering, Bull Calves from Record of Performance dams; also a few females.

W. P. BELL, BRITTANNIA HEIGHTS, ONT Ottawa Bell Phone.

CAMPBELLTOWN HOLSTEIN HERD

CARIFOCLIA UNIT INUSTICIA ILERBY
Headed by KORNDYKE VEEMAN PONTIAC,
He is a son of Sir Korndyke Pouttse Aris, Andhis
Pontia Veeman, Recerdat y sura, menta, togoke
lis, of milk in 30 days and 80.51 lis, butter. Her
dam is a 30-lis, vegor-cold daughter of Sir Veeman,
November Bull calves from this great young sire,
and cons who have good records and good official
backing. R. J. KELLY, Campbelltown Farm
TILSONBURG, DISONBURG, DI

HOLSTEINS AND TAMWORTHS

From R. of P. and R. of M. Dams, sired by Sir Lyons Hengerveld Segis. His dam's record 33% lbs. His sire King Segis

J. McKenzie, Willowdale, Ont.

Fair ont Farm ne of

King Segis Pontiac Alcartra The \$10,000 Bull

The \$10,000 Bull
At head of herd. The first bull calf
sized by him sold for \$1000. 1 still have
another bull calf by him out of \$2-bb,
dam that has produced 450-bb daughter,
another bull calf by him out of \$2-bb,
dam that has produced 450-bb daughter.
I also offer a son of "Hillside Piedle,"
I also offer a son of "Hillside Piedle,"
I also offer a son of "Hillside Piedle,"
and the greatest find rividual bull in U.S.A.,
calf s dam has record over 25 bs. He
will be ready for service Dec. lat. Price
\$350 f.o.b. Middlesown.
Now is the time to engage a son of

w is the time to engage a son of g" out of a 30-lb. cow, or better. al will bring his pedigree. Send for it. King"

JNO. ARFMANN Fairmont Farm Middletown, N.Y.

Going at \$50.00

Registered Holstein-Friesian Bulls, various ages. Come and inspect them. Send for photos and tabulated pedigrees. GEO. J. NORTHCOTT.

"Clarum Brae," Solina. Ont.
C.N.R. Station Solina on the farm, a few minutes' walk from buildings.

Spring Brook HOLSTEINS and TAMWORTH SWINE

For Sale or Exchange-for a good straight, well-bred Heifer, a choice bred Canary Bull, of rich breeding, out of a G.daughter of De Kol 2nd and Butter Boy 3rd.

Boy 3rd.

Tamworth Pigs, ready to wean, of best imported blood, delivered in Old Ontario for \$8.00 a-piece, either sex. Send your order early. First come first served. Satisfaction Guaranteed

A. C. HALLMAN Waterloo Co.

new laid eggs, 25c a dosen in case lots.
On the Farmers' Market, new laid eggs
are selling at 30e to 35c a dosen.
Montreal wholesale prices for eggs are
given as follows: Fresh eggs, 25c to 35c;
selects, 35c a dosen in case lots.
Local quotations for poultry are: Live
chickens, 14c to 15c a lb; fowl, 14c to 15c;
turkeys, 55c to 15c ducks, 25c to 16c; ducks, 25c

turkeys, 16c to 16c; ducks, 9c to 10c; duck-lings, 11c to 12c a lb. On the Farmers' Market, spring chickens are selling at 22c to 23c; chickens, 17c to 18c; fowl, 14c to 15c; turkeys, 16c to 20c; ducks, 21c to

DAIRY PRODUCE

DAIRY PRODUCE

The butter market shows little or no variation. Present local quotations are: Oreamery prints, 28c to 28c dairy prints. 28c to 28c abr. Or the Armer's Market dairy butter. Description of the Armer's Market dairy butter. Prices for cheese are: Twins, new, 18c to 18-4c; large, 14-3de a lb. Montreal prices are as follows: Finest creamery, 28c a lb. Western cheese, 13-8c to 13-4c; Townships cheese, 131-4c to 13-8c.

PRIVAPER.

POTATOES

The report that a considerable part of the crop in certain districts of Eastern Ontario had been damaged by the excessive rains has been substantiaated, sive rains has been substantiaated, but it does not seem to have had any effect on the prices. In fact, quotations are lower than last week, and new Ontarios are quoted at 85c a bag and 70c to 75c a bag in car lots. On the Farmers' Market potatoes are selling at 81 to 81.0 a bag. Montreal prices have declined, and sales last week only realized 56c to 70c a bag in car lots. PRIIIT

The fruit market market has shown a certain weakness during the week, although supplies were extensive. Peaches have declined in price, but apart from this the market remains unaltered. Dealers give the following quotations: Cabers ers give the following quotations: Cabbages, 812.5 a crate; tomatoes, 50 to 52s; Spanish onlous, 83 a case; egg plant. 50e to 50e a basket; water melons. 60e to 56e each; blue berries, 81.25 to 81.29 (11 qts.); penches (6 qtal., 125 to 50; penches (11 qts.), 50e to 50e; pears (11 qts), 60e to 50e; plums (11 qts), 60 to 50e; pears (11 qts), 60 to 50e; pears (12 qts), 60 to 50e; pears (13 qts), 60 to 50e; pears (13 qts), 60 to 50e; pears (14 qts), 60 to 50e; pears (15 qts), 50 to 350; celery, 5c a bunch; rhubarb, 3c bunch; lettuce, 3c a bunch; tomatoes,

HODRES

There has not been much variation from last week's prices, and the same quota-tions may rule. Heavy drafters, \$210 to \$235; medium, \$175 to \$220; good agricul-tural horses, \$150 to \$225; expressers, \$150 to \$200; saddle horses, \$150 to \$275; driv-ers, \$130 to \$140.

LIVE STOCK.

The chief item noted least week was the decline of prices in heart in other lines the supply was hardly equal to the demand, and prices remained steady at about last week's quotations. The following figures were supplied by local dealers: Export cattle, choice, 8 to 8,620, medium, 82,520 to 85.75; crokers, choice, 845 to 85.00 to 85.0

MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal, Saturday, Sept. 12s. "The market here this week opened with an easier
feeling on account of the increasede aupreling on account of the increasede aupprice, and sales were made freely of selected lots at from 88.75 to 89.10 a cwt.,
weighed off cars Toward the close of
fromer on the opener, prices were much
framer on however, prices were much
framer on the control of the nrmer owing to the advices from Toronto and other points to the effect that markets were advanced there owing to the big demand from the packers and dealers, and it would not be surprising to see prices higher here next week. There is a good demand for dressed hogs, and fresh killed abattoir stock is quoted at \$12.50 to \$12.75 a cwt.

EXPORT BUTTER AND CHEESE.

Montreal, Saturday, Sept. 28—The market for cheese has remained firm throughout the week, but is closing with a decidBrealau, Ont. ly easier feeling, and there is every indi-

cation of still lower prices ruling next week, owing to the lack of demand from Great Britain. Most of the buyers at the Great Britain. Most of the buyers at the country markets were quiet this week, the activity being confined to one or two houses only, and the prices paid ranged from 15.14c down to 12.74c, the latter price being paid on Priday at I requuish. There is not sufficient demand to take hold of the offerings at the country points, and stocks are steadily accumulation. In Morrett and executive the control of the country and several states. ing in Montreal, and are now away shead of what they were at this time last ye and, unless some relief comes in nature of an increased consumption nature of an increased communition of cheese in Ringland, atooks are bound to increase until they get at least to a point at which they will be heavy enough to break the market and bring cheese down to a lower and safer level or value. The only support the market is receiving now is due to the fact that the cheese offered are September make, and are look-ed upon as obean compared with prices paid for earlier makes. The receipts are showing an increase over last year, and bear out the reports coming from all bear out the reports coming from all productions. production is heavier than it was at this

production is heavier than it was at this time last year.

Butter market continues firm and prices are still further advanced, finest Sastern Townships creamery selling freely at 26c a lb, f. o. b. Montreal. The demand is largely speculative, as dealers are putting aveay large quantities of September-made batter for their winter trade.

GOSSIP

This week in I've stock advertising columns. Mr. Jno. Arfmann. of Middietown. Mr. Jno. Arfmann. of Middietown. On the Middietown of the Mi

CONCRETE FOR ROADS

CONCRETE FOR ROADS

A portion of the King Edward lighway is to be built of concrete, the contract for its construction having been let on September 11th by Hon. J. E. Claron, Minister of Agriculture and Highways of the Protein and Highways of the Protein and Hongard of the Protein and Hongard of the Protein and Hongard of the Contract of the Contra

It was the original intention that the It was the original intention that the entire highway should be built of mac-adam; but the Honorable Minister, who has under his jurisdiction the Canadian branch of the work, has become interest-ed in concrete roadways and has decided upon this important undertaking as a good place to try it out. Governments and municipalities are gradually coming and municipalities are gradually coming to recognize the necessity of a more per-manent form of roadway construction. That concrete is the material which best fulfills all the requirements of a per-manent roadway is receiving world-wide

WINNERS IN MOLASSINE MEAL CONTEST

An interesting feature of the Canadian National Exhibition, Toronto, was the presentation of the special extra prizes of \$25 in gold, given to each of the owners of animals winning first prizes. and that had been fed regularly on gen-uine Molassine Meal (made in England) for at least two months prior to the Exhibition

hibition.

The presentations took place on Friday,
September 5th. Mr. L. C. Prime, head of
the firm of L. O. Prime & Company, St.
John, N.B., distributors for Canada for
the Molassine Co., Limited, London, England, came up to Toronto and made the

land, came up to Toronto and made the presentations personally.

The fact that out of is exhibitors contenting is of them won one or more first prizes with Molassine Meal fed animals is strong testimony to the feeding value of geouine Molassine Meal. There is no doubt that had a longer time been given even more first prizes would have been

AYRSHIRES

Tanglewyld Ayrshires

Champion Herd of High-testing Record of Portormance Cows.

Royal Star of Romine Brae-36,54-a. so Royal Star at Roman Star of the Royal Star at the head of the Berd.

Some choice young stock, both cast. and a few mature cows for cale.

WOODDISSE BROS. . ROTHSAY. ONI. Long Distance 'Phone.

AYRSHIRE BULLS FOR SALE

One Ayrshire Bull, 15 months old sin-(Sarah 2nd's Scottle) bred by J. McKe-dam (Maggie Brown of Sliver Springs-bred by N. Dyment. Both G. sires and one G. dam in yearly record; dam rus-ning in yearly record now, white with brown checks and small brown spoke. Also February and March Bull Calra by same sire. Write T. C. TREVERTON. LATTA, ONT.

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale. Long distance 'phone in house.
R. R. NESS. - HOWICE. OUR

SUNNYSIDE AVESHIRES

Imported and home-bred, are of the choicest breeding of good type and have been selected for production. THERE Young Bulls dropped this fall, sired by "Nether Hall Good-time"—26.541—(Imp.), as well as a few femnies of various ages, for sale. Write or come and see. J. W. LOGAN, Howick Station

('Phone in house.)

LAKESIDE AYRSHIRES

We are offering a number of fine Yong Bulls of different ages, sired by "Barch cekle Cheerful Boy" (Imp.) No. 28:79. Two of them are from dams already entered in the Advanced Register, while the dams of a number of the others are at present un-der test for the Record of Performance. LAKESIDE FARM. PHILIPSBURG, QUE.

QEO. H. MONTGOMERY, Prop. 164 St. James St., Montreal

JERSEYS

JERSEYS GOLDEN FERN LAD STRAIN We have for sale 4 Yearling Bulls ready for service; 4 Yearling Helfers; Calva, both male and female; and females of all

Visit our herd (44 cows now milking) Write us about Jerseys you want. D. DUNCAN. DON P.O., ONT.



F. R. MALLORY, of

Frankford, Ont., who owns the Lawncrest Holstein Herd, the home of the great May Echo



Family wrote us recently as follows:

"We have just been making an offi-cial test on a cow which has pro-duced over 100 lbs. of milk per day for 7 consecutive days, and averaged over 9 lbs. milk per day for 60 days. She has been fed "CALFINE" with gratifying

"As a good wholesome and reasonably cheap food for calves and for testing cows, CALFINE has proved with us to be almost a necessity."

"Kindly forward me another 500 lbs. as my supply is about finished and we do not wish to be without it."

CALFINE

is great for calves. You can use it also at a profit on your record making cows. Get it from your dealer or send money order for \$25 and we will ship you 100 lbs. of CALFINE as a trial. Freight Prepaid to any station in Ontario, south and cast of Sudbury.

CANADIAN CEREAL AND MILLING CO., LIMITED Toronto, Canada

******** HOLSTE

October 3, 10

********* THE HOLSTI A. Brethen, Nor

G. A. Brethen. Nor By way of intro ing notes on the H the recent Don Ottawa, I might po adopted by the Ho adopted by the Ho tion of America i the different points (males as well as points out of 100 t points out of 100 t and an equal numi mary veining." I me that a 20 per qualities is just, sistent I must giv they deserve, othe consideration according consideration accorplaced upon them ties known to the The conformation viously, from the r closer examination and and "eye," I ably in some cases. which included so minent in show-rir ed. It was indeed experience to hand brought out at the but it teaches me minent Ayrshire j some cases previous tion the changes on the road can ming all honor to reversals were not only made after fi why they should why they should Grand Champion m al. is undeniably a grand heart girth, tion of a rather sl pleasing conformati certainly entitled to n any company. Ottawa, however, a in the show-rings, i serious illness just tition, he had a "d pression, which con ably with the bri and stately carriag Hengerveld Pietje." indications of that bute of any worth These points, in bute of any worth These points, in length of both be-depth of both hea quality of veining, well crested neck of the Avondale en that it took a col-heat.

His most serious d middle, but this m age, and his calves F. Bell's entry thandling bull in th and chunky for the
The same type a
followed when the
balanced son of ") balanced son of "A selected to win over son of "Pontiac Ar tike the second pr class, is altogether about the neck to n bull. Although ma bull. Although may of cows, these bull lent breeders. A n Posch, 38.57 lbs- b cidedly lacking in ners, was place The winner in the by Messrs Laidlaw, male champion, ha and neck as the wicksess, combined with that compar age with any male owner is an amat proved a serious o proved a serious of ing for the champic generals as Messrs Second went to a lighter bodied bull, Farm. Third to a of Hardy's, but a b

Mr. Sangster's bee frequent winner

bull, showed somew in competition with 11.

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of the d have THREE ired by -(Imp.), is ages,

RES

Young "Barch-79. Two ered in lams of ent us-tance.

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p. treal

STRAIN CERS ready Calves of all

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great

C

lbs.

HOLSTEIN NEWS

THE HOLSTEINS AT OTTAWA

G. A. Brethen, Norwood, Ont (The Judge)
By way of introduction to the following notes on the Holstein cattle shown at
the recent Dominion Exhibition in
Ottawa, I might point out that the rules
adopted by the Holstein-Friesian Associaadorted by the Holatein-Friesian Associa-tion of America in assigning values to the different points of a typical Holatein (mules as well as females) ascribe 10 and an equal number of points to "man-mary veining." Experience has taught me that a 20 per cent value on these qualities is just. Therefore to be con-qualities is just. Therefore to be con-tained to the point of the points of the consideration according to the value placed upon them by the highest authori-ties known to the breed.

placed upon them by the highest authorities known to the breed.

The conformation of many of the animals shown at Ottawa I had studied premais shown at Ottawa I had studied premais and the studied present the studied present the studied premais and the studied premais and the studied some of the most prominent in show-ring history, disappoint-ended the studied some of the most prominent in show-ring history, disappoints to the studied some of the most prominent and the studied some of the most prominent and the studied some studied in the studied some studied som studied tion of a rather short, beefy nees, is of piessing conformation throughout. He is represented by the consideration of the control of the cont

Mr. Sangster's beautiful 3-year-old bull, Mr. Sangster's beautiful Syear-old bull, a frequent winner and a model-fronted bull, showed somewhat at a disadvantage bull, showed somewhat are disadvantage in competition with the more mature bulls of greater substance and superior fitting. His most serious drawbach is lack of middle, but this may be overcome with search and the calves certainly have sufficient some some distributions.

middle, but this may be overcome with age, and his calves certainly have sufficient to sease criticism on this score. It helies entry was fourth, the best P. helis entry was fourth, the best and the sease of the s

proved a serious obstacle when compet-ing for the championship with such ring-generals as Messra Logan and Dickie. Second went to a show, though mich lighter bodied bull, owned by Colony Fram. Third to a rather plainer entry of the control of the control of the control of the raining development than any male in the vaning development than any male in the

wasses described different classes

different classes.

The senior and innior bull calves presented a very great variety of types and dissimilarity of ace which made consistent dissimilarity of ace which made consistent class went to a Colon. Farm control class went to a strong masculine calf of Indy's that had many strong points, but was to seriously lacking in heart girth was to seriously lacking in heart girth Mr. Saugster showed a well-bodied calf that would easily have gone to the top

Mr. Sangster showed a well-bodied can that would easily have gone to the top but for a lack of masculinity in head and neck.

but for a lack of maculinity in head and neck. Aged Cows

The aged cow class, with 16 entries, proved one of class, with 16 entries, proved one of the above. The aged cow class, with 16 entries of the above. The aged cow class is a competion, "Pride of Orchard Hill," of the Hardy atring, and "Droaky Sadde the Aged Competion," Pride of Orchard Hill," of the Hardy atring, and "Droaky Sadde the Aged Competion, "Pride of Orchard Hill," of the Hardy atring, and "Droaky Sadde the Jack of the Aged Competion," and the was only after mature considera amountmens, uniform depth, well-balanced under and perfectly placed teats more than counter, and the second and third cows been a little stronger in shape of under and placing of rear teats the Toronto when we would be a compared to the second and third cows been a little stronger in shape of under and placing of peace lower down position a couple of places lower down position a couple of places lower down and the proposition of the proposition of the proposition and the place of the proposition of the proposition and the proposition of the proposition and the proposition

lack of ruggedness to win in such strong company.

When you consider the many good cows were a supported to the support of the

iss. 'Koba De Kol,'' the Colony Farm entry,

"Koha De Kol." the Golony Farm entry.

"Koha De Kol." the Golony Farm entry.
although not enjoying as attractive a finish as some of the others, due to a long, heavy milking period, has any amount of type and deeth and soelie period. The more closely you exame the hierest more she strikes one as being, if in proper fit, "a model in type and performance." She was a decided winner with more she strikes one as being, if in proper fit, "a model in type and performance." She was a decided winner with a constant of the control of t

Mr. Bell came to the front with an ensy Mr. Bell came to the front with an easy winner in the senior yearling class. This hrifer was of nice type, carrying a good udder and a beautiful handler. Hardy was second and Colony Farm just man-aged to win over a type though much smaller helfer of Nell Sangster's. Junior yearlings were easily headed by cluster yearlings were easily headed by This helfer was brought out in almost

perfect shape, and is a very strong, well-balanced helfer throughout. She has a beautiful head and neck, with a very strong muzile, plenty of depth, with an extra well appung rib, good barrel, extra well appung rib, good barrel, atraight tep-line and showing extraordin-straight tep-line and showing extraording a straight tep-line and showing extraording colors. Champion female, and was certainly a strong winner in any company owing to all-round balance and multiplication of strong points Mr. Sangster won second strong points Mr. Sangster won second strong points Mr. Sangster won exceed that power of the strong point and the same and t

Farm fourth.

Arondale carried off the honors in the heifer calf classes with three beautiful daughters of the first prize aged buil. These were a very right dunch and later on added in security of the prize for breeder's young hevorable the prize for breeder's young he colony Farm were the runners up with some good entries of much the same type the states.

"Baker" Wind Engines

Are built for hard, steady work, and keep at it year in and year out



some good entries of much the same type as the winner.

The herd prizes went to Hardy and Colony Farm respectively, with Neil Sangers at the runner-up, and the respective of the prizes were the runner-up, with every indication of an abundance of young stuff coming on that will provide even better classes at future shows. Bull to make as strong a show rately in type to make as strong as down and the property of the property of the provided at a show of this kind, but probably this also will be corrected as bready and the provided at the

MAPLECREST HOLSTEINS Beat the WORLD'S RECORDS

The Three Most Wonderful Cows the World Has Ever Produced! ALL DAUGHTERS OF ONE SIRE



BANOSTINE BELLE DEKOL.

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WE HAVE JUST A FEW CHOICE BULL CALVES FOR SALE

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Of Over 70 Head of Pure Brew

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Will be held in the New Cattle Barn, EXHIBITION GROUNDS Red Deer, Alta., October 16th, 1912

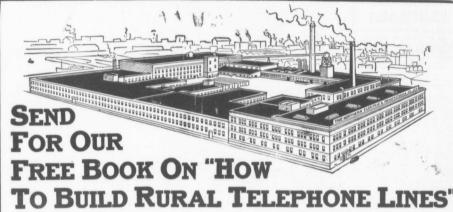
Including our Champion prize winning herd, headed by SIR PIETERTJE OF RIVERSIDE, 20 choicely bred bulls, 50 females, all under 6 years of age.

The foundation stock of this herd was carefully selected from several of the leading Holstein herds of Ontario, and consist of a combination of several of the leading families of the breed, and are sired by such noted sires as JOHANNA RUE 4th's LAD, AAGGIE GRACE THE STATE OF TH

Write for Catalogue, which will be ready the last of September. Come and look over the stock before the sale.

Col. Welsby Almas, Auctioneer Brantford, Ont.

Michener Bros., Props. Red Deer, Alta.



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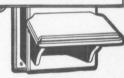
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