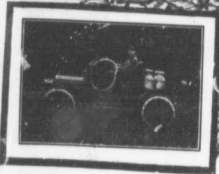


FARM AND DAIRY

AND
&
RURAL HOME

Dairy & Cold Storage
Dec 14



DEVOTED TO
BETTER FARMING
AND CANADIAN
COUNTRY LIFE



Peterboro, Ont., April 16, 1914



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Rural Publishing Co., Ltd., Publishers

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No expense or effort has been spared to incorporate in our Machine every possible advantageous feature. The principal aim has been to bring it to the highest degree of efficiency.

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Note the neat and pleasing appearance of the "SIMPLEX." Note the heavy, compact construction and convenient height of supply-can and discharge spout. The top of the supply-can is only 2 1/2 ft. from the floor, and is out of the way of the operator. The oil-drip-pan, between base and body, catches all drainage.

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The Grain Grower's View of the Protective Tariff

—Grain Grower's Guide

The Dairy Profit Controversy

Mr. Savage Replies to Mr. Mitchell

Jan. Savage, Lanark Co., Ont.

WILL you kindly allow me a reply to the letter of Jas. A. Mitchell, Russell Co., Ont., in Farm and Dairy, March 26? I will pass over Mr. Mitchell's personal references as they are irrelevant and incorrect. He has not read my letter correctly as I did not blame any one for anything and did not discuss the scrub cow. My estimates were for the 8,000-pound cow, and I note that he has to ask help to prove them misleading. Neither has Mr. Mitchell written correctly for instance he tells me how I can succeed after stating that I cannot succeed at anything; also after describing how one cent milk is making scores of farmers wealthy he states that milk is certainly too cheap at a cent a pound. These are only examples of Mr. Mitchell's efforts to reason as seen in his whole letter.

WHAT EXPERTS SAY

It is not necessary to call for individual estimates of the cost of producing milk. The experts he admires, but fails to quote, have already furnished the figures. In a test of the four leading breeds of dairy cattle giving 8,000 lbs. of 4.25 milk, conducted at the Connecticut Agricultural College, Storrs, each cow showed a loss of \$10 a year with milk at four cents a quart. Other tests give similar results. In New York State, where conditions are similar to those of Eastern Ontario, a cow testing association showed the cost of keeping a cow one year to be \$90.73. So the cow would have to yield 9,000 lbs. to pay expenses. In your hard they are working in our interests. Now the average Ontario cow produces about 4,000 lbs. Do I understand it is Mr. Mitchell's great desire that we keep on dairying at a loss until we reach the almost impossible average of 9,000 lbs.?

I remember conditions 10 years ago, when instructors were first appointed, and when they pushed for all they were worth the dirty milk ery, which should have been rejected by every self-respecting dairyman. I remember the effect it had on the British market, and suspect why it was discontinued. Mr. Mitchell claims there has been a rapid im-

provement in the quality of milk under instructors. I can judge by his own method, namely, the improvement in price. I will use checker reports and compare the price seven years ago with the price now. At the same rate of improvement it will be 1,333 years until it will be worth two cents a pound the same rate of improvement. Therefore if the improvement has been rapid the farmers have not been benefited by it.

TWO CENT MILK

He says it will soon be worth two cents a pound, I suppose because it will be better. Really it is difficult to understand how it could be less. I understand there is a sale made in Canada that pays that in the cities, say Montreal, it is for nine and 10 cents a quart. The same amount of milk manufactured into cheese sells in the same city three cents, and is about the price of the manufactured article I know sells for less than the raw milk. Surely it is not spoiled in the manufacturing?—

While I do not hold the instructor responsible for this strange operation, I think that even a poor planter from them would be better than abuse. If Mr. Mitchell is anxious to improve the milk let us go to any factory and guard them two cents a pound or more and a half cents for good milk will guarantee he will not have to wait even 10 years for it.

A CONTRADICTION APPARENT

In the last 10 years when Mr. Mitchell thought farmers were getting wealthy, 373,000 people are estimated to have fled from the farms of Ontario.

Statistics show that an American farmer, with an infinitely better home market than we have, is less for his work than his hired men. If farmers are growing wealthy it is there a farm laborer's profit is too small to enable them to attract labor from other elements. I have seen foreign labor in Canada getting \$2.50 for an hour day. When can we make a bid for even experienced labor?

(Concluded on page 11)



We Welcome Producers

Trade Increases the Value

Vol. XXXIII.

Soiling

I CAN well remember shorter milk checks during the hot summer as natural for a cow to during July and August or five months previous necessary evils.

Now we see the situation.

The cows of a good deal up in their milk yield in lack of fed, nor do they profitably for four or five cow is worked to her capacity. We have come to be allowed to drop away never be got back satisfied those herds make "foresight" rather are preparing now for a

PLANT SOIL

Most of us can see the soiling crops when the finish. Now, however, at hand, is the time to soiling. When planning of some of our time and some crops to meet the needs of Prof. Henry of Wisconsin when he said that while soiling to fill their barns for their cows, those same soiling on the other side growing crops.

The first point in summer to be attended to is the proper pasture during the spring. Most of us, when feed is to the pasture at the early the grass has attained a stage the pasture is kept close less fully a month sooner the grass given an opportunity to start. The twenty-fourth of for turning the cows to pasture of Eastern Canada. It is scarce the temptation is strong by many good men in this is scarce, by grain rather to pasture. If it is roughage the cattle to pasture and soiling crops for use in roughage can be bought for dairy cows.

A GOOD SOILING

A mixture of peas and oats and a good one. Milking 30 cows was to ca-



FARM AND DAIRY

& RURAL HOME



We Welcome Practical Progressive Ideas

Trad: increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land.—Lord Chatham

The Recognized Exponent of Dairying in Canada

Vol. XXXIII.

FOR WEEK ENDING APRIL 16 1914

No. 16

Soiling Crops for Maximum Summer Milk Yields

F. E. ELLIS, B. S. A.

I CAN well remember when short pastures and shorter milk cheques were taken for granted during the hot summer months. It seemed as natural for a cow to shrink in her milk yield during July and August as for her to dry up four or five months previous to calving. Both were necessary evils.

Now we see the situation from a different angle. The cows of a good dairy farmer do not shorten up in their milk yield in midsummer because of lack of feed, nor do they board in the stable unprofitably for four or five months. A good dairy cow is worked to her capacity for 10 months of the year. We have come to see that once a cow is allowed to drop away in her milk she can never be got back satisfactorily. Consequently those whose herds make the best showing exercise "foresight" rather than "hindsight," and are preparing now for summer feeding.

PLANT SOILING CROPS

Most of us can see the wisdom of planting soiling crops when the milk flow begins to diminish. Now, however, that spring planting is at hand, is the time to prepare for short pastures. When planning our crops for an abundance of feed next winter we might well devote some of our time and some of our land to soiling crops to meet the needs of the coming summer. Prof. Henry of Wisconsin was not far wrong when he said that while American farmers were toiling to fill their barns with winter provender for their cows, those same cows were often starving on the other side of the fence from the growing crops.

The first point in summer feeding that should be attended to is the proper preservation of the pasture during the spring and early summer. Most of us, when feed is short, get the cows on to the pasture at the earliest opportunity before the grass has attained any growing strength. The pasture is kept closely cropped and is useless fully a month sooner than it would be were the grass given an opportunity to make a strong start. The twenty-fourth of May is early enough for turning the cows to pasture in most sections of Eastern Canada. I know that when food is scarce the temptation is strong. A rule adopted by many good men is this: If it is grain that is scarce, buy grain rather than turn the cattle to pasture. If it is roughage that is scarce, turn the cattle to pasture and make extra provision for soiling crops for use later on. I doubt if roughage can be bought profitably for even good dairy cows.

A GOOD SOILING CROP

A mixture of peas and oats is a standard soiling crop and a good one. My practice when milking 30 cows was to calculate on two acres

of soiling crop per week for two months. Two acres of peas and oats will afford abundance of green feed for 30 cows when the pastures are almost absolutely dry. Our practice was to make four sowings, the first sowing first thing in the spring, the next two sowings at intervals of two weeks, and the fourth sowing at the end of another three weeks. One and one-half bushels of oats and an equal quantity of peas was our seeding on loamy soil. Occasionally a peck of vetches was added, which made the crop easier to handle and probably added somewhat to its feeding value.



Utility and Beauty Here Combine

This is Netherhall Brownie 9th, at one time Yorkshire champion of the world. She proved her ability as a able show type? This combination of beauty and utility is the one for which all good breeders strive.

The selection of the field for the soiling crop is an important item in reducing labor. The field that is to be sowed to grain that is nearest to the buildings and the nearest side of the field is the best selection. The proportion that I have mentioned, two acres per week for 30 cows, will be too much if the season is at all good for pasture. With this crop, however, one cannot seed too much, as the peas and oats may be allowed to mature and be threshed for grain, or cut on the green side for hay. The grain mixture when ground is a rich chop, especially suitable for milk production. If cut for hay I then start the mower early, as the straw is then much more palatable when chred.

DOES NOT INTERFERE WITH ROTATION

A still further advantage of the pea-oat mixture is that the growing of the soiling crop does

not interfere with the regular rotation. In fact, the chances are better for getting a good catch of clover with the soiling crop than with the grain crop, as the soiling crop is cut earlier in the season and the clover stand given the monopoly of the soil moisture. Some of the best catches of clover I have ever seen have been from soiling crop seeding.

If one has succeeded in getting a field of alfalfa started the supplementing of dry pastures is in a fair way to solution. Where the alfalfa field is handled intelligently, it will yield green feed from early in the season almost until frost comes. When the alfalfa is fed very green, precautions must be taken to avoid bloat. Most alfalfa feeders prefer to cut a considerable quantity at a time, leave it in the windrow all day to wilt and then coil neatly. In a couple of days the coils are hauled in and one has a palatable supplementary feed in quantity enough to last for several days.

CORN FOR FALL FEEDING

A small field of corn near the buildings for fall feeding is a practice that has become common because of its merit. Did you ever notice, however, that quite frequently when the corn is first fed, the cows go back in their milk instead of responding under its influence? It is well to remember that green corn up to, and even after, the tasselling stage is mostly water, and although a cow's stomach capacity is great, she could not possibly consume enough of this green corn to meet her bodily requirements for nutriment. When the corn reaches the dough stage it makes good feeding, but before that, left-over silage is much to be preferred.

The best method of all for supplementing the pasture—by means of the summer silo—I have left to the last because of lack of personal experience with the method. Twin silos, however, are now becoming too common a sight to be commented on in most of the dairy districts, and the men who, by increasing their corn acreage and silo capacity, prepare a year in advance for short pastures tell me that there is no other way to compare with it. Corn is the most dependable of all crops. A review of crop situations in Canada for the past 10 years shows that corn has never been an absolute failure and that it has averaged better than any other single crop. It returns more food value per acre than does any other crop. An acre of good corn turned into silage will yield as much nutriment as three acres of good pasture.

All of these points in favor of the corn crop are also equally good arguments for the sum-

mer silo. A larger acreage of corn will not solve the supplementary feeding problem this summer, but why not prepare now for the short pastures of 1915? And in the meantime let us make ready for 1914 with peas, oats and vetches, or some similar mixture. Foresight is always better than hindsight, and in no case is it a greater money-maker than when it comes to the feeding of dairy cows during the summer months.

The New-born Foal

Jas. Armstrong, Wellington Co., Ont.

How many foals die, either at birth or within a few days or weeks? I was asked this question recently by a veterinarian. After due consideration I gave my estimate as 25 per cent. He agreed that that was just about right. Think of what about this means. After all the expense for service fees, loss of work on the part of the mare, and other incidentals, 25 out of every 100 colts die in a short time. I do not believe that eight per cent. would be lost were proper precautions taken just before and after birth.

The first great cause of mortality is filth. I am a crank on cleanliness, because it pays. Most foal mortality is caused by the infection of the navel by filth germs. This explains why mares that foal on grass raise a larger percentage of their colts. Their surroundings are cleaner. For the mare foaling inside, I would provide a clean box stall, one thoroughly disinfected. When I do have a mare foaling early, I scrub the lightest and sunniest box stall we have. I then whitewash with lime wash and chloride of lime. The floor in particular is simply flooded with the wash. If one wishes to be particularly careful with a valuable mare, shavings would be preferable to straw for bedding.

I do not like to tie the navel cord unless absolutely necessary; better to have it break naturally. I thoroughly disinfect the stump of the navel with a solution of five per cent. creosote, and if tying is necessary the ligature is similarly disinfected. The soiled bedding and afterbirth of the mare is burned.

Another frequent cause of loss is the failure to see that the bowels of the foal move; the first sticky contents must be got rid of. Injections of warm water and a little glycerine will usually do the trick. If not, try two or three tablespoonfuls of a mixture of castor oil and a little sweet oil shaken up in milk and given as a purgative; lacking these, try raw linned oil as a purgative. Be sure it is raw.

The Barnyard Manure Pile

E. F. Eaton, Colchester Co., N.S.

I am getting altogether away from the ideas that I once had on the preservation of manure. A few years ago we all thought that the proper way to build a barn was with the cattle and horses on the first floor and a basement beneath where the manure could be properly preserved. If we did not have a manure cellar we all made haste to provide a covered shed. This method of preserving manure was good where the manure was kept well packed, usually by a couple of hogs, and where horses did not compose too large a percentage of the live stock. It was, however, unnecessarily expensive, as I am now finding out. I now fully believe that manure can be kept just as well out in the open.

My method of preserving the manure in the

outside stack is as follows: I select a level piece of ground not too far from the stable door, about 40 or 50 feet, from which there cannot possibly be any leeching. I also take care to so locate the stack that the water running from the roof of the barn does not come near the site of the manure pile.

During the summer when there is any spare time, dry muck is hauled and spread over the site of the prospective manure pile to a depth of six or eight inches. This helps to conserve the liquid and prevent leeching.

I start at one end and build the pile to a depth



When the Bees Join The Great Consuming Class
A scene in the apiary of Mr. E. F. Robinson, Victoria, B.C.

of four feet, keeping it thoroughly tramped. The sides are made as steep as possible as the steeper they are the less surface is there exposed to the weather and the smaller chance for leeching or heating. As the manure accumulates it is always kept at a depth of four feet, making the stack longer and longer.

I prefer to have the top of the stack somewhat hollow as the rain absorbed tends to prevent heating. The main point, however, is to keep the manure thoroughly packed. This method I have found quite as efficient as the old one of storing in an expensively constructed basement or under a covered shed.

Profitable Performance

D. A. Grant, of Stormont Co., Ont., has a herd of Holsteins, part pure-bred and part grade, of which he is justly proud. During the course of an address at the Eastern Ontario Dairymen's Association Convention last January Mr. Henry Glendinning said that his cows had averaged him \$70 each at the creamery. Mr. Grant, who was in the audience, informed the speaker that his cows had done even better than that. Mr. Grant ships his cream to Montreal, receiving 35 cts. a pound butter fat in summer and 45 cts. in winter. He pays the express, which averages about two cents a pound butter fat. His herd of nine consists of six heifers, five of which are two-year-olds and three mature cows. The following is the record of this profitable herd:

No.	Butter		Cost of feed	Value
	Lbs. milk	Per cent. fat		
No. 1	11,221	3.7	442.47	\$163.60
No. 2	10,435	3.6	374.1	152.45
No. 3	5,276	3.9	227.2	84.06
No. 4	6,902	3.5	241.2	87.35
No. 5	6,070	3.6	182.5	67.52
No. 6	5,406	3.9	210.0	77.95
Cows				
No. 1	11,248	3.5	387	143.19
No. 2	9,252	4.6	456.8	169.75
No. 3	9,531	4.1	326	146.55

Average of nine, 3.8 per cent. Total, \$1,080.44.

No. 1, the highest producer, is a two-year-old heifer. When arriving at these conclusions Mr. Grant values his ensilage at \$3 a ton, hay \$10 a ton, meal \$25 a cwt. The latter consisted of oil cake, chop and cotton seed.

The Profits of Dairying

R. H. Harding, Middlesex Co., Ont.

I feel it is the duty of someone to reply to the letter of Jas. Savage in Farm and Dairy, March 12, even if I am to be that someone. I will not attempt to say that the average price of cheese is high enough (to patrons), because I believe cheese is not high enough in price compared to its food value and the prices of other foodstuffs. As to the advice of instructors being more welcome to farmers when their footing is more sure, I don't quite see the point. If the advice is along right and practical lines it should help the farmer on his feet. I don't know of anything that will give the farmer better footing than to put some of the practical instruction that is being shown broadcast over this land, into practice. Indeed, I don't see much hope for many so-called dairy farmers improving their conditions unless they do grapple with the dairy problem in a more intensive manner than formerly.

I don't see that the amount of cheese exported should concern any farmer very much. He has plenty to take up his spare moments looking after growing abundance of suitable feeds, weeding out his poor cows and developing and getting the very best out of his good ones, if he has any. If not, he should get busy and make a start on sound and profitable lines if it should mean selling his whole herd and starting afresh, because it would be better to start with but one or two cows that are profitable and give them the best of attention rather than go on wasting both food and energy on a whole herd that could never be made profitable. In reality it makes no difference to the farmer whether his milk is manufactured into cheese for export or for home consumption, or whether cream or milk is sold, so long as his cows are making substantial profits on their investment. Cheese may be too low in price. The world's supply and demand largely rules or should rule the prices, and I suppose we will have to put up with it.

RE PROFITABLE HERDS

Mr. Savage says there is not a herd in the country that can show profits at cheese factory prices. With this I can't agree. I won't attempt to quote figures, because figures can be made to tell anything, but I could quote any number of dairymen who patronized cheese factories during practically the whole of their life on the farm, and have been able to retire soon after middle life. But of course they made the best use of their cows nine and one-half to 10 months every year.

Just a few words with reference to the figures Mr. Savage has compiled. In the first place, interest to the tune of \$900 should not be charged up to the 10 cows, because that barn and silo are necessary to hold the hay, grain, corn, horses and other stock, and the bulk of the interest should be so charged. Another very important item that should be on this statement is the fertilizer that is being manufactured by those cows, which is of untold worth for producing future crops. The young stock increase is also a very valuable asset if the right kind of stock is being kept, but this, Mr. Savage says, will be at the expense of other farmers. On the contrary, we think it is an advantage to other farmers to be able to get such stock. Then again

(Continued on page 10)

The Leng

George L.

At the last Jersey Cattle Convention the proposal was made to extend the probation period in the State from 365 days to 400 days. This is a good debate the subject. I have heard of one of our best breeders across the State of opinion. I wish it was, and invited to reply.

I believe that the reason for this has been because of years in many other countries established great re-

THE OTHER

I am not blind to the shortening of the probation period for sons for their sire's nature a cow's reputation producing her offspring to grow it until for itself and then the prospect of producing a state of nature a cow's own for its work expected by drain on their system work and freshening have extended the

I have studied this each breed and I think most persistent milk cows for the test years. We will support the test both of milk, testing 5.5 per cent. equal to 500 lbs. of milk.

Cow No. 1, fresh to produce 8,000 lbs. of butter each year, of butter, and five

Cow No. 2, fresh to produce 572 lbs. of butter and one calf in each lactation period, in the five years or four periods 37,020 lbs. of milk, 2,280 lbs. of butter and four calves.

Tests show that we must allow that the cow with the three months' rest will increase on her previous year's record, but we will balance that with the risk of milk fever and other troubles caused by too much forcing. We then have a balance in favor of the yearly cow of nearly 3,000 lbs. of milk and over 200 lbs. of value at \$63.00, the milk at \$6, or \$11.00, without taking into feeding cow No. 2 that she is dry.

Some breeders are forcing the cow for

The Length of the R. O. P. Test

George Lixbraute, Huron Co., Ont.

AT the last annual meeting of the Canadian Jersey Cattle Club, one of the most important matters to come before the members was the proposal to reduce the length of the lactation period in the Record of Performance Test from 365 days to 300 days and the period of calving to 400 days. There is plenty of room for a good debate through Farm and Dairy on this subject. I have discussed the question with some of our best breeders and have corresponded with a breeder across the line. I find great difference of opinion. I will favor leaving the year's test as it is, and invite any reader of Farm and Dairy to reply.

I believe that the test should be left as it is because it has become established by use over a period of years in Canada, the United States and many other countries. All dairy breeds have established good records on the 12-months' test.

THE OTHER SIDE OF THE QUESTION

I am not blind to the fact that those who favor the shortening of the test can advance good reasons for their stand. From the standpoint of nature a cow's real work in the year consists in producing her offspring, furnishing nourishment to grow it until the youngster is able to provide for itself and then rebuilding her own body with the prospect of producing another calf, which in a state of nature arrives annually. If we run our cows on test for 365 days we are overdoing the work expected by nature and placing a greater drain on their system. A cow could not do this work and freshen every month. Consequently we have extended the period to 15 months.

I have studied the tests of some of the cows of each breed and I find that the Jersey is the most persistent milker. We will take two Jersey cows for the test which is to extend over five years. We will suppose that previous to starting the test both of these cows gave 8,000 lbs. of milk, testing 5.5 per cent. butter fat, which is equal to 500 lbs. of butter.

Cow No. 1 freshening each year would continue to produce 8,000 lbs. of milk, and 500 lbs. of butter each year, or 40,000 lbs. of milk, 2,500 lbs. of butter, and five calves in the five-year period.

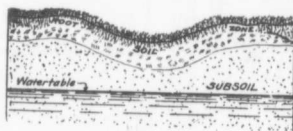
Cow No. 2 freshening each 15 months, would give approximately 9,256 lbs. of milk, equal to

672 lbs. of butter and one calf in each lactation period, or in the five years of four periods 37,024 lbs. of milk, 2,288 lbs. of butter and four calves.

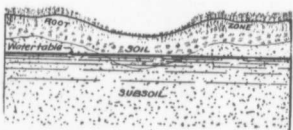
Tests show that we must allow that the cow with the three months' rest will increase on her previous year's record, but we will balance that with the risk of milk fever and other troubles caused by too much forcing. We then have a balance in favor of the yearly cow of nearly 3,000 lbs. of milk and over 300 lbs. of butter. The butter we will value at \$63.00, the extra calf at \$50 and the skim milk at \$6, or \$11.60 in favor of the yearly cow, without taking into consideration the cost of feeding cow No. 2 the three months of each year that she is dry.

Some breeders advocate the yearly test and forcing the cow for all that is in her. This may

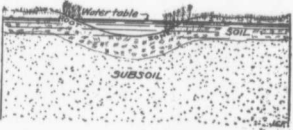
be all right if we are trying for some prize in which is attached great honor. From the practical standpoint, however, the value of testing our herd is to find the profitable animals and do



A
NORMAL POSITION OF WATER TABLE



B
WATER TABLE RISING AND ENCROACHING UPON ROOT ZONE



C
WATER TABLE PARTLY ABOVE GROUND AND ROOT ZONE FLOODED

Why We Under-Drain

The value of under-drains is a matter of moisture control. In diagram "A" of the illustration herewith, is shown a water table down below the root area, and hence affording ideal conditions for growth. Such a condition may be attained by proper under-draining. In "B" and "C" the water table has encroached on the root area interfering with growth. This is a condition very general in undrained soils early in the spring and in marsh lands the whole year through.

away with the boards. Breeding on these lines will develop production much more than will

Metallic Roofing Protects against Lightning

By E. L. McCriskey

THE loss that farmers, particularly Ontario farmers, suffer each year from lightning, totals very many thousands of dollars. During an electric storm in one village in Oxford county a few years ago, a man reported that he had counted eight barns burning within sight of his front door. It is not to be wondered at, therefore, that the claim made by metallic roofing concerns that the steel roof will protect the building from lightning is received with much interest by farmers everywhere. The claim, however, was hardly made before it was disputed. The discussion, however, should now be set at rest by the conclusions arrived at by Prof. W. H. Day, of the Physics Department of the Ontario Agricultural College, after much experimental work and investigation. I shall review Prof. Day's conclusions briefly:

If we take a building and place thereon an ordinary metallic roof, it is just as apt to be struck by lightning as if it were covered with cedar-shingles. If, however, that roof be connected with the ground by a wire, the lightning flash will follow along the wire providing a light bolt were to strike the building.

A metallic roof properly wired and constructed, however, would prevent the lightning from striking the building at all. It is now a well established fact that sharp points attract the electric charge of the air, and if a proper conductor is provided down to moist ground the electric energy in the air will be relieved and electric bolts prevented. This is the principle of the lightning rod, and there are two ways of applying it in the case of the metallic roofing. In the first place ordinary lightning rods with sharp points may be attached to the steel ridge board.

Another method is to put a sharp-edged or notched ridge board at the top. The most general practice is the putting of a round metal form on the ridge of a metal roof. Nothing could be more dangerous than this from a lightning standpoint. The round form prevents the electricity from leaking off and consequently tends to store up a charge and cause a stroke. If instead of the round, a sharp-edged form or one with teeth were used it would be almost impossible for a metallic roofed barn to be struck by lightning, if

two or better four corners were connected with the earth by ground wires.

The connection with the ground is an important point and without this connection the metal roof is useless as a protector. Another important point is to have the roof connected with soil that is permanently moist as dry soil does not conduct electricity to any great extent. A favorite method is to attach the conductor leading from the metal roof to a flat steel plate buried in the moist soil.

Your horse's shoes should be changed at least once every three or four weeks and often if necessary. The morning is the best time in which to examine the feet, as any increase of heat or lameness shows itself more readily after the animal has rested over night.



Why Lug Heavy Cans Until the Back Aches When There is a So Much Easier Way to Do It?

The device here illustrated is a product of the inventive mind of an Ontario farmer. It explains itself. The wooden truck runs up close to the stable door, the can platform is lowered to a level where the cans can readily be filled, the truck is then pushed out to a convenient place for loading and by a pulley device the platform is elevated and one has a moveable milkstand. There is absolutely no lifting of heavy cans and no lugging of milk pails from stable to milkstand.

running after world's record progeny. This is the case for the test of 300 days in preference to 365.

More than one-half of the area grown with field beans in Ontario is confined to the counties of Kent and Elgin.—Prof. C. A. Zavitz, O. A. C., Guelph,

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Royal Purple CALF MEAL

It is no longer necessary or even advisable to give your whole milk to calves...

or write an direct. Also inquire about our chick plan, whereby you can secure 100 pounds of ROYAL PURPLE Calf Meal for best calf price...

ROYAL PURPLE solves the problem of CHICK MEAL. Selects the grain best suited to the chick. ROYAL PURPLE Chick Meal is just right, neither too coarse nor too fine...

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We offer \$50 cash prize for the best calf raised in Ontario on our ROYAL PURPLE Calf Meal...

To raise food satisfactorily you should have your poultry remedied, especially our Royal Purple. There is no reason why you should lose any of your young chicks or turkeys from disease...

We will send 100 lbs. Calf Meal Freight Paid for \$4.25 W. A. Jenkins Mfg. Co. London, Canada

This Book Describes a Better Silo



It's full of valuable information on ensilage and describes the silo that preserves it in a fresh, sweet and succulent condition right down to the last forkful.

Write for Free Silo Book. Send today for this book. It tells you all you need to know about the silo...



The Feeders' Corner

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

Re Grain Mixtures

How would you mix bran and gluten feed for feeding for milk? Hay and ensilage are also good feed. Would cottonseed meal produce greater production? A.M. Soulanges Dist., Que.

For cows giving 40 lbs. of milk a day or more, the addition of a small proportion of cotton seed meal to the grain ration would be desirable.

For cows giving 40 lbs. of milk a day or more, the addition of a small proportion of cotton seed meal to the grain ration would be desirable.

Value of Foods

Please give the analysis of bran, shorts, middlings, cotton seed and oil cake which would you consider the best food for milk cows giving 30 lbs of milk a day? B. C. Stansfield, Ont., Que.

Table with 4 columns: Food, Protein, Carbo-hydrates, Fat. Rows include Bran, Shorts, Middlings, Cotton Seed, Oil Cake.

Of all of these feeds, bran is the only one that can be safely fed in large quantities when using only one mill feed in the ration.

The way in which these feeds are mixed would depend very much on the quality of roughage food. If fed in conjunction with timothy hay and corn ensilage one would need to feed a larger proportion of cotton seed and oil cake to balance the deficiency of protein in the bulky foods.

GASOLINE ENGINES 11 to 50 H.P. Stationary Mounted and Tractor



WINDMILLS Grain Grinders, Water Boilers, Steel Saw Frames, Pumps, Trucks, Etc.

COOL, SHAWLEY & MUIR CO., LTD. Branford, Winnipeg, Calgary



London Automatic Concrete Mixer does any kind of mixing automatically measure and mix. If you use concrete you will find it a better

write us for price of this machine. We have the largest list of concrete machinery of any firm in the world. Tell us your requirements. London Concrete Machinery Co., Dept. C., London, Ont.

Go Stalls Everlasting

These BT Galvanized Steel Cow Stalls last a century. Equip your stable with these and it will not need repairing or renewing as long as you live.

Free Book Tells All Stable Equipment. Also ask for valuable book "How to Build a Dairy Barn", that tells how to frame barn and how to lay cement floors and walls. Address: BEATTY BROS., LIMITED 1293 Hill Street, FERGUS, Ont.



Free Book Tells All Stable Equipment. Also ask for valuable book "How to Build a Dairy Barn", that tells how to frame barn and how to lay cement floors and walls. Address: BEATTY BROS., LIMITED 1293 Hill Street, FERGUS, Ont.

FREE COUPON. Please send me free your book No. 11 about BT Galvanized Stable Equipment. Also book "How to Build a Dairy Barn". If I wish to build a dairy barn I am born in 1914 for...

502.6 Bushels Potatoes

From One Acre of Ground

TWENTY DIFFERENT FARMERS in 20 different parts of New England competed the past year in growing potatoes. The crops were widely separated as to climatic and weather conditions.

Bowker's Fertilizers And No Other Dressing

The winning crop was 502.6 bushels. The average of the twenty crops was 322.8 bushels. The average yield in New England is 131.6 bushels, and for the United States 89 bushels.

Send for our Book of the Contest. Also tell us what your crops are, and your fertilizer requirements and we will send you our helpful book on Plant Food and our new Illustrated Catalogue.

BOWKER FERTILIZER COMPANY 43 Chatham St., Boston.

Also New York, Buffalo, Philadelphia and Baltimore

April 16, 1914. FARM MA... Re-consider... I have considered to clover and is inclined to leave and fall, and it is because of the reason of the year...



A Large E... Many of Our Folks... Howick, may have a guay District... Farm and Dairy... business

er, the timothy might be advisable oats over the field, would be better to fairly heavy spike to The clover seed immediately after the ed, and a good third day or a day after the land with a roller. Grass seed, if to be sown sown at any time a off, but if clover seed sown, the whole of the be held for some of the younger clover sown by frost...

The Best Stump

What is the best stump puller? It is a hand stump puller. It is a hand stump puller. It is a hand stump puller. It is a hand stump puller.

FARM MANAGEMENT

Re-seeding Meadow

I have considerable low black land seeded to clover and timothy. This land is inclined to heave with the frost, spring and fall, and it is rather wet at that season of the year. It looks now as though the clover will be killed out and I figured going over it with timothy and shade just as soon as advisable. If oats were sown on this land would the frost work it in sufficiently to take root and grow so as to help this seasons crop, and, if so, how soon would you recommend it to be sown, also would you recommend the grass seed right away?—H. M.

The probabilities are that the frost will not have hurt the timothy by heaving, but the clover will most likely have been seriously injured. I would recommend scattering clover seed on this land just before or immediately after rain, as early in the season as you can get on the land. If you do not sow oats it would not be advisable to harrow, unless with a very light slant-toothed harrow immediately after the seeding. If, how-

in ordering a machine of this kind to order, at the same time, three or four extra chains. This machine has been tried out along with several others on the Experimental Farms System and has proved the most satisfactory machine of its kind for areas where stumps do not much exceed one foot in diameter.—J. H. G.

Seeding on Fall Wheat

I sowed several acres of wheat last fall which is looking well, the land being quite clean and in good condition. I would like to seed it down in the spring with alfalfa and red clover mixed. Do you think this advisable, and, if so, how and when would you recommend putting the seed out?—Subscriber.

Alfalfa and red clover might be sown over the wheat field in question late in April or early in May. It had better be sown at the rate of six pounds red clover, eight pounds alfalfa and six pounds timothy an acre. It would be advisable to go over the field with a light tilling harrow, immediately after seeding. Do not sow until all danger of heavy frost is past.—J. H. G.

A Large Barn in a District where Large Barns are the Rule

Many of Our Folks who have travelled on the Grand Trunk from Montreal to Howick, may have noticed the large red barn of Mr. Geo. McCrea in the Chateaufort District. It is nearer view of the barn as snapped by an editor of Farm and Dairy. The stone stable is an unusual feature in this district, where basements are not as common as they are in Ontario.

—Photo by an editor of Farm and Dairy.

Crosses for Registration

Can grade cattle be graded up so as to be called pure-bred? How many crosses are required?—Reader, Lanark Co., Ont.

over, the timothy is rather thin it might be advisable to scatter a few oats over the field, but in this case it would be better to harrow with a fairly heavy spike-toothed harrow.

The clover seed should be sown immediately after the land is harrowed, and a good thing to do the same day, or a day after would be to roll the land with a moderately heavy roller. Grass seed, that is timothy seed, if to be sown alone, might be sown at any time after the snow is off, but if clover seed also is to be sown, the whole of the seed had better be held for some later time, since the young clover plants are easily injured by frost.—J. H. G.

The Best Stump Puller

What is the best stump puller? I have a lot of roots and stumps to get out.—Algonia.

For land clearing operations in northern Ontario probably the best stump puller for ordinary stumps would be a team of horses and a log chain to hitch to the stump; if, however, some of the stumps offer to be rather too firmly fixed for this method, satisfactory results could be secured by a small charge of stumping powder properly placed. Some men, however, object to using stumping powder, in which case probably the best stumping machine that could be used for such stumps as occur in the northern part of Ontario is one known as the "Logan Stumper."

It is a hand stumper and is manufactured by A. Logan, Seylaur, N. S. If this stumper is ordered, it is very important that chains of proper size of links to fit the machine be secured; chains can, I think, be got with the machine. This, of course, refers only to the chains which run through the machine. It would be advisable

Cattle of all the leading dairy breeds in America must trace back on both sides to pure-bred cattle imported from the home land of the breed. No number of crosses makes an animal eligible for registration if there is any grade blood in it.

In the case of beef cattle there are some breeds that do admit of registration after a certain number of crosses, usually four. The requirements vary with the different breeds. Also some of the older dairy cattle herd books admitted the registration of graded animals, but these herd books have since been discontinued and their registrations disallowed.

Pea Straw for Silage

Can green canning pea straw taken from the canning factory be put into the silo to make good ensilage?—J. D. G. Prince Edward Co., Ont.

Green pea straw run through a cutting box and well tramped in the silo should make satisfactory ensilage. In several of the canning factory sections of Ontario dairy farmers make a regular practice of feeding pea straw ensilage and state that they have good results.

Where the pea straw is very green it is advisable to cut it into the silo along with a little dry hay, or better still, along with well-matured corn. This will absorb the surplus moisture.

Every bad crate of poultry and every bad case of eggs that is placed on the market hurts the industry throughout the whole country. We cannot afford to do it.—Prof. F. C. Elford.



The Ford—the Lightest, Surest, Most Economical—the very essence of automobiling—and all Canadian.

Model T Runabout f.o.b. Ford Ontario **\$600**

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Club Together On Your Seed Grain

We can supply you with any quantities—all kinds of seed grain and clovers. SEED CORN and CLOVER SEED our SPECIALTIES. You'll be wise to buy before the spring rush. No order too small for our prompt and careful attention.

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Write us for prices
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MERLIN ONT.

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YOU can become a competent chauffeur in a very short time by taking our thorough and complete Auto Course. Our instructors are specialists in their line and our equipment is most complete. Illustrated booklet will be sent free on request.

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And well protected from the storm and weather elements if they are protected with our high-grade

Roofings and Sidings

Preston Safe Log Shingles on the roof are a safeguard against damage by lightning. We give a written guarantee. Our Shingles are strong, rigid and easy to erect. They are absolutely waterproof. Alum shingles are highest quality and full weight. Our book "Steel Fireproofing 65" is now ready. Send for a copy. We will give you some good information on buildings.

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ADDRESS YOUR NEAREST OFFICE

QUALITY BUILT—PROVED



MAKE YOUR LAND FULLY PRODUCTIVE Get a SPRAMOTOR!



The man who owns a Spramotor cannot understand why other men will get tilling and cultivating for weeks, then leave the crop to be devoured, and a field ruined by insects, scale, rot and other pests.

A Spramotor owner gets all this done to get in fruit, potatoes, berries, row crop and grain. He is the man who always has a bumper crop, always has a good season, always makes a profit.

You may be a farmer in a small way. We have a Spramotor selling as low as \$10. You may be the owner of several hundred acres of field and orchard. We make power Spramotors up to \$50, and also a wide range of styles and prices in between. We can fit your needs exactly.

Write us a short letter detailing your requirements. By return mail we will send you FREE a copy of our valuable book on Crop Diseases, also particulars of a Spramotor that will best do your work, at lowest cost. Don't delay, write us now!

HEARD SPRAMOTOR CO., 1785 King Street, LONDON, CAN.

RIDER AGENTS WANTED

Everywhere to ride and exhibit a sample 1914 Flying High with contest breaks and all latest improvements.

We ship on approval to you, and allow 15 DAYS TRIAL. It will not cost you a cent if you do not desire our bicycle.

DO NOT BUY of street, lamp, or newsstand or any pedlar until you receive our latest 1914 Illustrated catalogue and have finished our special price and accepting program.

ONE CENT is all it will cost you to write us to write us a postal and catalogue and full catalogue will be sent to you. **FREE** Postpaid by return mail. **One cent** will wait. Write it now.

HYBLO BROTHERS, Limited
Box K TORONTO, Canada



CHALLENGE COLLARS

Adapted to be fastened to the front of your collar. We have good Collars over made. Ask us to see and buy now or direct for 25c.

THE ARLINGTON CO. of Toronto, Ltd. 85 PRINCE AVENUE TORONTO

All "ARLINGTON COLLARS" are good, but our CHALLENGE BRAND is the best



ORCHARD AND GARDEN

Orchard and Garden Notes

Rake and cart away all trash from the premises as soon as possible.

Onion sets may be planted as soon as the ground is workable. White sets are best.

Spinach may be planted at any time now. Cover not over one-half inch deep.

Has the orchard been sprayed? There is still time if the leaves have not started.

Plant sweet peas early. They require cool, moist weather for best growth.

A good lawn and garden will make the home brighter and better.

Forty-two pounds pure Kentucky blue grass, five pounds redtop, and three pounds white clover per acre make a good lawn grass mixture.

Better results are obtained by planting asters and sweet peas in colors, although mixtures are cheaper and if good do very well.

Attractive surroundings both indoors and out will help to keep the boy and girl on the farm. Give them something of their own; some stock, or as much land as they can care for,

and they will become interested in and attached to the farm. Personal ownership goes far to interest us in things about us.

Dormant Spraying

By R. C. Rose

All orchardists should purchase their spraying appliances early so as to be sure to have everything on hand at the proper time. If left till the last minute the shipment may be delayed for some time in transit and the spraying so delayed as to cause considerable loss to the orchard. It is very important that the spraying be done at the right time, for if applied too early or too late, its value may be greatly reduced. The mixtures used for dormant spraying are made much stronger than for later applications, and hence should never be used after growth has started in the spring.

The dormant wash is especially important for the orchard which has previously shown disease. The spores of the disease may live over winter on the dead leaves or fruit or in the crevices of the bark or the root-like mycelium of the organism may live over in the dead branches of the trees and thus be a continual source of infection for other trees. Therefore the logical thing to do is to cover the trees thoroughly with a fungicide that will kill the infection through the minute spores start growth in the spring. It is imperative that the trees be thoroughly covered with the spray or otherwise the work will not be worth while. As a primary measure of precaution, all dead and diseased branches should be pruned out and burned before spraying is done, and the wounds covered with white lead to keep them from rotting while healing.

There are several different kinds of spraying compounds in use at the present time. The most important for dormant spraying are commercial lime-sulphur which is mixed with water at the rate of one gallon to nine gallons of water; self-boiled lime-sulphur (15-20-50) and copper sulphate, 3 pounds to 50 gallons of water. The first of these seems to be the most satisfactory and its use is gradually increasing each year.

Big Crops of Roots

One of the most appreciated addresses at the last Guelph Winter Fair was that given by Paul A. Boving, Root Specialist at Macdonald College, Quebec. In the report of this address which appeared in Farm and Dairy, April 2nd, several serious errors crept in through careless proof-reading.

In the third paragraph it should read 75 lbs. of Muriate of Potash, instead of 25. In the table under the heading "Best Yielding Varieties," "tons dry matter" and "tons roots," should be reversed.

In the third column the sentence starting "comparing No. 2 and No. 8," the last word of the sentence should be "former" instead of "latter."

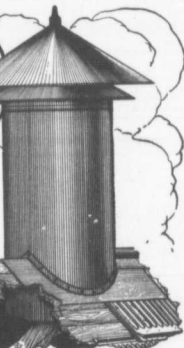
The last line on page three reading "point. As a general rule carrots should be sown," should be omitted, reading from "The former is advisable in two cases," right on to page six.

Errors such as these will creep in at times, and we regret them exceedingly.

Ventilation in Your Barn



Pedlar's Superior Barn Ventilator



Too many farmers are content to overlook the important question of proper ventilation in their barns, yet nothing is more essential to the health of their live stock and the preservation of their crops and buildings.

Pedlar's "Superior" Barn Ventilator

is especially adapted for ventilating barns and large buildings.

It provides a constant upward current without any down draught, working continuously and most efficiently. It is priced much lower than other ventilators not nearly so satisfactory. Fully protected from the bird nuisance.

Get our Folder on "Barn Ventilation."

For Roofing your Barns, the big

"George" Shingle (24 in. x 24 in.), with its positive four-side interlocking device, affords ideal protection against fire, wind, snow, and rain.

And for your dwellings and out-houses the "Oshawa" Shingle (16 in. x 20 in.), of identical quality and design, is equally effective. Get our Shingle booklet.

Best grade Corrugated Siding, and a variety of Sheet Metal products always in stock at all our branches.

Write nearest address for Catalogue 22 F.D.

THE PEDLAR PEOPLE, Limited OSHAWA - ONTARIO

Established 1861.

Toronto, Ottawa, Montreal, Winnipeg, London, Chatham, St. John, Quebec, Sydney, Halifax, Calgary, Vancouver.



S. H. Peden

Reply to

R. Austin,
WITH the information in the Wm. D. advertisement in Farm and Dairy, I wish, it is not surprising, that Hunter felt prompt protest against such a surprise that anyone would put his name up as sponsor for statements. I write clear to readers of Farm and Dairy, however, that my name in connection with this entirely without my consent. I altogether agree with the letter that the advertiser misbehaving since the copy which these results were not taken into account information on form to believe that the information obtained by the student mixed fertilizers is due of goods. Such importations as soil conditions cropping, spraying, etc. hinted at as being largely responsible for yields.

The following conditions these two young men with respect to your readers, as possibly be taken into account in the following

Why

A S

- BECAUSE—It stock all
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- BECAUSE—It tem of modern
- BECAUSE—Yo a barn th

USE THE CO

The Shing Head

THE METAL SHINGLE PRESTON
Please send me your free b
Name _____
Address _____

Reply to "Comments on a Fertilizer Experiment"

R. Austin, B.S.A., Dept. of Agriculture, Willand, Ont.

WITH the information furnished in the Wm. Davies fertilizer advertisement which appeared in Farm and Dairy, issue of March 26th, it is not surprising that Mr. Jas. Hunter felt prompted to write a protest against such, or to express surprise that anyone who had studied fertilizers at the O. A. C. should let his name go as sponsor to such sweeping statements. I wish to make it clear to readers of Farm and Dairy, however, that my name was used in connection with this advertisement entirely without my consent.

I altogether agree with Mr. Hunter that the advertisement is quite misleading since the conditions under which these results were obtained are not taken into account. Those seeking information on fertilizers are asked to believe that the larger yield obtained by the student using factory mixed fertilizers is due to the brand of goods. Such important considerations as soil conditions, previous cropping, spraying, etc., are not even hinted at as being factors always largely responsible for differences in yields.

The following conditions under which the results were obtained by these two young men will be of interest to your readers, and must necessarily be taken into consideration in accounting for the results secured:

The experiment was with potatoes, each growing Delawares. Roy McKennie Barron, of Fonthill, Ont., used as fertilizer 100 lbs. nitrate soda, 300 lbs. basic slag and 200 lbs. of potash. In addition to this eight loads of manure were applied. The soil was sandy loam, the surface soil being fully 10 inches deep. The previous year a crop of timothy hay had been grown on the field. The seed was not treated for scab, nor sprayed during the growing season to prevent blight. Between June 6th, planting time, and October 1st, when the potatoes were dug, he cultivated five times, and on the latter date harvested 135 bushels. Valuing the marketable potatoes at 60c a bushel, these would bring in \$77.40. Labor, fertilizers, seed, etc., cost him \$44.25, so that he had a margin of profit of \$33.15.

Will Cryser, of Allanburg, the other competitor, used 500 lbs. of Davies potato grower, and six loads of barnyard manure. This field was clay loam, with five inches of surface soil in good condition. This field had been down in alfalfa for several years previous to being broken for this crop. The seed was treated with formula to prevent scab and planted on June 3rd. Two sprayings of Bordeaux mixture were given to prevent blight, and three cultiva-

SUNNYSIDE POULTRY FARM

Renew your flock by securing a setting from our Prize-Winning Stock. We keep the leading varieties of hens, turkeys, geese and ducks. Our prices will suit you. Write us on what you need.

S. R. CCLAND
R. R. NO. 1 - HARRISTON, ONT.

BARRED ROCK EGGS

From brood-lay stock. Price, \$2.00 per setting of 12 eggs, or \$5.00 for 25 settings.

J. C. STUART
MAPLE HURST FARM, DALMEY
R. R. NO. 2, OSGOOD, ONT.

WHITE WYANDOTTE EGGS from my championship male and other matings. Heavy laying strain—H. Bunde, Brighton, Ont.

EGGS FOR HATCHING, \$1.00 a setting. R.C.B. Leghorns, R.C.R.I. Reds and B. 5, Hastings, Ont.

AMERICA'S GREATEST LAYING STRAIN OF WHITE WYANDOTTES—Winners at Hatching eggs, two, three and four dollars per setting—McLeod Bros., Beulah Farm, Honey Creek, Ont.

A BARGAIN

Eggs for hatching White Wyandottes, direct Guild and Regal stock, brood-day 4% egg yield during last winter. \$1.50 per setting. Incubator sets, 5c per egg. Baby Chicks, 15c each. Delivery charges prepaid.
J. J. BRICKLEY - MARYVILLE, ONT.

Tells why chicks die

F. C. Reifer, the poultry expert of 1638 Main Street, Kansas City, Mo., is giving away free a valuable book entitled "White Diarrhoea and How to Cure Diarrhoea and tells how to prepare a simple home solution that cures this terrible disease over eight and actually raises 60 per cent of every hatch. All poultry raisers should write Mr. Reifer for one of these valuable FREE books.

FOR SALE

Eggs from Pure Bred R.P. Rocks of the O. A. C. brood-lay strain. None better. \$1.50 per 15. Orders taken now. Also the Runners.
H. SMITH, R. R. No. 2, PORT PERRY, Ont.

S.C. RHODE ISLAND RED EGGS

From my winners at Harriston, Teeswater and Mt. Forest Poultry Shows. Heavy winter laying strain. Selected pen, \$2.00 per 15. Utility pen, \$1.25 per 15. Special prices on incubator lots.
A. ERIC HUTCHINSON - MOUNT FOREST

FOR SALE—Ontario Agricultural College strain of brood-lay Barred Rock Eggs—Guship, Ont.

Baby Chicks

Order your baby chicks now from our splendid laying strain of SINGLE COMB WHITE LEGHORNS.
UTILITY POULTRY FARM
T. G. DELAMERE, Prop.
STRATFORD - ONT.

Why You Should Build A Steel Truss Barn

- BECAUSE**—It is lightning proof and fire proof. Your grains and stock always safe when housed in a Steel Truss Barn.
- BECAUSE**—It is very easily erected. You need no large crew of men. One man can handle any piece of timber. Six men can erect a Steel Truss Barn in about ten days.
- BECAUSE**—We furnish all the material above the foundation, including lumber, hardware and metal covering.
- BECAUSE**—It gives you 25 per cent. more storage space than a similar sized wooden barn. Loading and unloading is easy because there are no cross timbers.
- BECAUSE**—It is strong. It is weatherproof. It has a perfect system of lighting and ventilation. It is equipped with modern door hangers and hay fork outfits.
- BECAUSE**—You save money, time, labor and worry, and you get a barn that is better than any other type in existence.

USE THE COUPON TO-DAY AND GET OUR FREE BOOKLET

The Shingle Metal & Siding Co., Ltd.

Head Office - PRESTON, ONT.

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THE METAL SHINGLE & SIDING CO., Limited
PRESTON - ONTARIO

Please send me your free book, "The Steel Truss Barn,"

Name

Address

Farm and Dairy

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- Montreal
 - Toronto
 - Preston
 - Winnipeg
 - Saskatoon
 - Edmonton
 - Regina
 - Calgary

Giving Satisfaction

Conway, Feb. 9th, 1914.
The Metal Shingle and Siding Co., Ltd.,
Preston, Ont.

Dear Sirs—

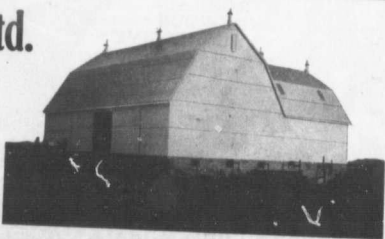
The Steel Barn which we bought from you and have erected is thus far giving us perfect satisfaction and we are well pleased with it.

The heaviest winds we have yet had have not so much as made it creak. The steel braces go together so well that it is very quickly done, and the ends are so well braced that there is little or no danger that they will ever get out of true.

We feel sure that any one wishing to build a barn can make no mistake in purchasing one of your Ideal Steel Barns.

One of our neighbors is intending to build either this year or next and he is very pleased with the looks of our barn. If you would send him some information regarding your steel barns it might be of value to you. His name is—

Wishing you success in your business,
I am,
Yours truly,
HAROLD H. HAIGHT.



The Edward Dreier Service.

A handy pump for farmers

It is a direct lift pump that can be attached to wind mills, a Fairbanks-Morse Eclipse Engine, or operated by hand.

This is one of the least expensive and most efficient of our high grade farm pumps. Adapted for lifts from 30 to 125 feet. Although an ideal pump for any farm—easy to operate—will keep in good repair for years.

Send for free catalogue of pumps and water systems. If you are interested in farm engines, spraying outfits, lighting systems, power and hand tools, scales or mechanical goods of any kind, full particulars will be sent to you on request. Address Dept 42

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Potato Profits

depend largely on how the crop is planted. Every skipped hill is a lost time, fertilizer and soil. Every double watered valuable acre. It means \$5 to \$10 per acre extra profit if all hills are planted, one piece to each. That is why

IRON AGE Planters 100 Per Cent

often pay for themselves in one season on small acreage. They also plant straight, at right depth, 12 to 24 inches apart. 18" With or without fertilizer distributor. Ask your dealer to show you this Planter and write us for booklet, "How to Use Iron Age Planting" and copy of Iron Age Farm and Garden News.



The Iron Age, Williston Co., Limited, 481 Spadina Ave., Toronto, Ont.

Set Your Hens

WITH Eggs from Pure-bred Fowl

We will supply you with a setting from any of the popular breeds

THREE SUBSCRIPTIONS TO FARM AND DAIRY

tions. When they were harvested on October 20th there was a yield of 200 bushels, worth \$177.50. The cost of producing this crop, including tillage, fertilizers, etc., was \$42.35, leaving a margin of \$135.25.

A consideration of the above conditions will enable your readers to see that there were many factors responsible for the results in these experiments, and that the margin of profit in the one could not honestly be credited to a special brand of mixed fertilizer used.

The Profits of Dairying

(Continued from page 4)

Mr. Savage says when we all have high producing cows this source of profit will cease and will find ourselves first out of one rut and into another. To this let me say, "Don't fear, Mr. Savage, you will have to live a long time yet to see every one with high producing cows, especially in a country so large and so sparsely settled as Canada is, and with the low producing cows so much in the majority as they are to-day.

Do You Get Farm and Dairy Regularly?

Occasionally we receive complaints from our folks that their copies of Farm and Dairy are not arriving regularly. These complaints lead us to believe that others may miss occasional copies also. Farm and Dairy would like to hear from everyone when copies are missed, in order that we may look into the matter and, if possible, why the error occurred. Drop us a card the next time Farm and Dairy does not reach you.

We are all (or nearly all) open to conviction, and if Mr. Savage should show us what there is that he would advise the farmers to go into.

In Farm and Dairy several references have been made to the great Social Service Congress held in Ottawa last March. Our folks will be glad to know that a full report of the proceedings, including the addresses and paper given at this congress, will be published immediately by the Social Service Council of Canada. It will be a large volume, bound in cloth, postpaid \$1. providing it is ordered not later than April 20th. Order from Dr. J. G. Shearer, 626 Confederation Life Bldg., Toronto.

New Line of Ready-Made Buildings

The Metal Shingle and Siding Company, who have a line of factories throughout Canada, have rendered great service to farmers with their Steel Truss Barns, and they are now putting on the market a line of ready-made buildings for storage purposes. These buildings are constructed with steel frames and wood purlins covered with their Acorn Quality Corrugated Sheets, all parts being manufactured at their several factories, so that they can be shipped out all ready for erection upon arrival at destination with very little labor. Any handy man who can apply corrugated sheets can easily erect these buildings, and their low cost is such that no one can afford to allow implements or vehicles of any kind "ready-made" buildings together with price list, will be mailed upon application by addressing The Metal Shingle and Siding Company, at Montreal, Toronto, Preston, Winnipeg, Saskatoon, Regina, Calgary or Edmonton.

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DELIVERED AT YOUR STATION OVERLAND EAST 125

Due to our increasing business we are able to offer better prices than ever on our made roofing. Ours is the most complete line in Canada, direct to the user.

SAMPLED FREE Don't pay high prices until you compare our roofing, value for value. We guarantee roofing, value for value. Our remarkably low price on tar paper paid to quantity purchasers direct from the largest makers. We sell to you at our "low-expense" price on actual manufacturer's price. Full line of building papers to choose from. Prices low for reliable grades.

WRITE FOR FREE SAMPLES It will pay you to send for sample building paper before going ahead with your plans. We can save you money. Costs you nothing to look out.

LOOK BETTER Complete door sets at 38¢. Best No. 1 Pine Sash no better made. Get our special prices beginning at 56¢.

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Wall board can be used in new buildings or to refresh old walls. As a substitute for an plaster, it has no equal. It is a strong, durable, non-absorbent material, and is used on both sides so that further decorating is unnecessary. Comes in cut with a saw. Anything can be done for free samples.

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Helps his wife to plan her table in busy times. Shows with illustrations how to grow such vegetables as are most profitable to the help. A good gardener will be almost indispensable to the busy farmer. They can and should use such hard work.

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will use, cultivate, dig, harrow, etc., better than you can with any other wheel hoe or tractor. Boys and girls can do it. Can plant clover and work three full acres in one day. The horse, mule, or man can use it. From which to choose at \$1.00 to \$4.00. For combined tool and all at the work. Ask your dealer to show you "Gardening with Modern Tools" and "Gardening with Modern Tools" and "Gardening with Modern Tools" and "Gardening with Modern Tools". The *Iron Age*, Williston Co., Limited, 481 Spadina Ave., Toronto, Ont.

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Each Tuesday March 15 to October 27, inclusive. Winnipeg and Return - \$35.00 Edmonton and Return - \$45.00 From Toronto, and St. Louis West and North of Toronto. For complete fare from St. Louis East of Toronto. Returns limit two months.

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Settlers traveling with live stock and effects should take SETTLERS' SPECIAL TRAINS which leave Winnipeg each Tuesday during MARCH and APRIL after arrival regular 10:30 p.m. train from Toronto Union Station.

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Through trains Toronto to Winnipeg at West. COLONIAL CARS ON ALL TRAINS. Charge for meals. For complete particulars from Canadian Pacific Agent or from H. G. Murphy, D.F.J. Toronto.

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will remove them and Reduces any puff of swell blister or remove shoe knot. \$2 a bottle of absorbine.

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An up-to-date Bicycle tire and tube. Also a new grade of bicycle tire. The best FREE and repair. Buy your Wholesale.

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for

Save won't lose horse Curbs, Spend bottle.

KENDAL SPAVIN

has saved a great many horses back to work. Has been given up. Over \$5 have proved its value. Dr. J. A. Kendall of St. Louis, Mo. I have been using your for many years, always with successful results. I have used your Spavin Cure and have cured many cases. I have used your Spavin Cure and have cured many cases. I have used your Spavin Cure and have cured many cases.

Dr. J. A. Kendall, Co. Printing Co., Toronto, O.A.

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Amatite

THE mineral surface it does away with old painting. Ordering roofing you know, need about every two years.

The practical farmer maintains with first determining the value covering, and he knows or three paintings cost as a new roofing.

Amatite costs no more other roofings, and the cost is nothing.

A helpful booklet—tote a sample of Amatite—is the asking. Write today

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will remove them and leave no blemishes. Reduces any puff of swelling. Does not blister or remove the hair, and horse can be worked. \$2 a bottle delivered. Book 6 K free.

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An up-to-date High Grade Bicycle fitted with *Roller Chain, New Structure, Contour Brake and Hub, Enamelled Wood Frame, Double Kick, High Quality Road Equipment*, including *Headlamp, Pump* and *Tools*. **\$22.50** send for **FREE 1914 Catalogue**, 96 pages of *Bicycles, Sundries and Sporting Goods*. You can buy your supplies from us at Wholesale Prices.
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Save a horse and you won't have to buy one. Don't sell or destroy any horse on account of Spavin, Ringbone, Sprain, Strains or Lameness. Spend one dollar for a horse.

KENDALL'S SPAVIN CURE

has saved a great many horses—has put them back to work even here they have been given up. Over 35 years of experience in the value.
J. M. Grosvenor of St. Louis, Mo., writes:
"I have been using your Spavin Cure for many years, always with excellent results."
Kendall's Spavin Cure is at any drugstore. Price, 50c per bottle. A Treatise on the Horse, 100 pages, 10c per copy.
Dr. B. J. Kendall Co.,
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Amatite ROOFING
THE mineral surface of Amatite does away with the need of repainting. Ordinary ready-roofing you know, needs painting about every two years.
The practical farmer counts maintenance the first cost in determining the value of a roof-covering, and he knows that two or three paintings cost as much as a new roofing.
Amatite costs no more than other roofings and the up-keep cost is nothing.
A helpful booklet—together with a sample of Amatite—is yours for the asking. Write today.

The Paterson Mfg. Co., Limited
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Are Producers Getting Their Fair Share?

Gordon Leney, Russell Co., Ont.
Can milk be produced at factory prices? This is a subject now much discussed in Farm and Dairy. If we would look back 10 years, as that is the time limit taken, we will find that the cost of raising milk at that time was considerably less than it is to-day. Cows were cheaper and so was feed taken all around.
But the price of cheese has not risen correspondingly. Why? Because the farmers have not combined to get a fair recompense for their products. It seems as though the farmer is doomed to take just what is given him and say nothing. On the other hand he is told and compelled by the "powers that be" to put up good sanitary buildings and sanitary surroundings, often at a large expense, in order to keep in the union. In all sides, if he wishes to ship cream, he is at the mercy of the buyer, who insists on paying by test and doing the testing himself and paying accordingly, which, to my mind, is not a fair deal to the producer.

There is a wide field open for improvement along these lines and more remunerative prices will have to rule if farmers are going to remain sane, as cost of production seems to be going higher every year. I think some of our hood men at Ottawa might properly take up the matter and look into the state of things as they exist at present and try to remedy matters somewhat. Last fall, for instance, although cost of production was abnormally high, still the price of cheese remained low as long as it was in the cheesemaker's hand. But as soon as it was all bought up prices of cheese were boosted. Does it not look as though there was method in that to keep the price down to the farmer.
I would like some of the readers of Farm and Dairy to air their views on this subject and strike the iron while it is hot. Also if there are some patrons of cheese factories who are paid by butter fat test, what is their experience compared with pooling system.

Dairy Profit Controversy (Continued from page 2)

Don't misunderstand. No one values the work done in our Agricultural Colleges and Dairy Schools more than I, or has greater respect for the men at their head. But I refuse to believe that expert knowledge is the only thing we need. If it were, why don't experts go farming? Mr. Reynolds, of the Agricultural College, Guelph, states: "We cannot expect college-trained boys to go back to the farm." This is because they can't make a living there equal to the standard of living they can attain elsewhere.
Would Mr. Mitchell, for instance, condemn the St. John Telegraph to failure for this horrible statement: "Through giving aid to special interests the farmer has lost his birthright. . . . He finds the price as his surplus products fixed in the free trade markets of Britain, and having agreed to pay 'something more' for his farming implements, machinery, clothing, nearly everything he buys, his mounting mortgages make him forget sometimes that he is living in a country whose natural resources are unexcelled by any other in the world."
We need more than expert knowledge of farming, though we must weed out our scrub cows; and scrub instructors for that matter.

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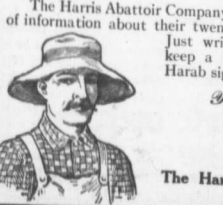
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If you want to get right on the fertilizer question, friend, take my advice and visit the nearest agency for

Harab Fertilizers

You will know the Harab agency by the sign shown above. It will be found over the door of your dealer in your nearest town or village. Every agent is thoroughly posted about profitable fertilizing. I say here—that fertilizing the Harab way is like sowing pennies to harvest dollars, for it not only gingers up the present profits by providing a bigger crop—but also nourishes the soil for future dividends.
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JUST as the engineer strengthens the points of strain in a big, mighty bridge, so we have designed braces, stronger than was necessary, to make our gates stiff and rigid. They can't sag—they can't twist—they are a great improvement over gates made the old way.

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are made of first-class material. Frame work of 1 1/2 inch steel tubing electrically welded together. Peerless pipe braced gates are all filled with heavy No. 9 Union Heath galvanized steel wire—built for strength and durability—weather proof and stock proof.
Send for free catalog. Ask about our farm and poultry fencing, also our ornamental fence and gates. Agents nearly everywhere. Agents wanted in open territory.
BANWELL-HOXIE WIRE FENCE CO. LTD.
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The Harris Abattoir Company have an interesting booklet of information about their twenty-five successful fertilizers. Just write for a copy to-day—and keep a weather eye open for the Harab sign—visit the Harab agency.
Hours for luncheon only,
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Fertilizer Department
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Toronto

FARM AND DAIRY

AND RURAL HOME
PUBLISHED EVERY THURSDAY.

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ADVERTISING RATES, 25 cents a line per day, \$1.40 an inch an insertion. One page 40 inches, one column 12 inches. Copy received up to the Saturday preceding the following week's issue.

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CIRCULATION STATEMENT

The paid subscriptions to Farm and Dairy exceed 16,000. The actual circulation of each issue, including copies of the paper sent subscribers who are but slightly in arrears, and sample copies, varies from 17,500 to 16,000 copies. No subscriptions are accepted at less than the full subscription rate.

Sworn detailed statements of circulation of the paper, showing its distribution by counties and provinces, will be mailed free on request.

OUR GUARANTEE

We guarantee that every advertiser in this issue is reliable. We are able to do this because the advertising columns of Farm and Dairy are as carefully edited as the reading columns, and because to protect our readers, we turn away all unscrupulous advertisers. Should any advertiser herein deal dishonestly with you as one of our paid-in Advance subscribers, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us within a week of its occurrence, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you state: "I saw your advertisement in Farm and Dairy."

Agents shall not ply their trade at the expense of our subscribers, who are our friends, through the medium of these columns; but we shall not attempt to adjust trifling disputes between subscribers and honorable business men who advertise, nor pay the debts of honest bankrupts.

The Rural Publishing Company, Limited
PETERBORO, ONT.

"Home" Cleaning Time

THE housewife who doesn't "house clean" at least twice a year is not classed as a good housekeeper by her more careful neighbors. And don't we admire the spirit of our women folks which makes dirt and disorder such a hateful thing to them! But would not a "home" cleaning time be preferable? "Home" cleaning involves not only the inside of the house, but the outside as well. Does it ever occur to you that it must be discouraging to the good wife to make such a thorough cleaning inside twice a year, while right near the back door and perhaps in full view of the road is a disorderly wood-pile and dirty door yard. Perhaps the cattle graze in front of the house where there should be a well-kept lawn and shrubbery.

Let us men folks encourage the ladies by looking after our end of the "home" cleaning. Here are a few of the jobs that might be attended to: Clean out the cellar, removing all decaying vegetables and such litter. Remove that disorderly wood-pile to where it will be less in evidence. Clean up the litter around the dooryard. Repair the fences and set the lawns and flower beds in order. Spend a pleasant evening with your wife studying a seed or nursery catalogue and making out an order for the vines or shrubs that she has coveted so long. When both get interested in the "home" cleaning there will be less complaint of irregular meals during "house" cleaning.

Out with the Road Drag

THE split log drag is not intended to make bad roads good, but rather to keep roads that have been properly graded from deteriorating. The principle on which the drag works is identical with the one that makes a hog wallow water-proof; the hog rolls around in the wallow, keeps the sides smooth until finally the earth becomes almost as impervious to moisture as cement. A well dragged road is simply a hog

wallow turned inside out and upside down, and such a road sheds the rain instead of retaining water on the surface. The undragged road allows water to stand on the surface and get down at the foundation of the road until the road is little better than a mud hole.

It is evident from this brief elucidation of the general principle of road making that spasmodic effort will never accomplish anything with the road drag. We must start right now—better had we started earlier—and keep the drag going continuously after every rain or often enough to avoid ruts. If the township will not pay us for the trouble, let us drag the road adjoining our farm anyway and give the councillors an example of unselfish citizenship. If we do the work well the council will soon come to appreciate the value of the drag and will reward us for our efforts.

Poverty and Land

ONE of the questions that is more and more coming up for consideration is popularly known as "the land question." This problem, once regarded as purely an academic one and of little practical importance, is now coming to be regarded as the one lying at the source of poverty and the human misery and degradation that go with poverty. The anomaly of a rich and undeveloped country as the home of poverty-stricken people such as we now find in increasing numbers even in this new land appealed so strongly to the delegates to the Social Service Congress in Ottawa recently that men representing all the leading Protestant denominations in Canada adopted the following resolution amidst applause:

"Believing that God in His Infinite Love has made ample provision for the needs of all His children and that the poverty that is so widespread to-day is due to the failure of mankind to recognize clearly that the great natural resources of the earth, including the land, are the gifts of God to all His children, and that the state is the trustee whose duty it is to administer these Divine gifts, not to the advantage of the few, but for the benefit of all, we, therefore, condemn the handing over of the public domain to private individuals and corporations without imposing conditions which would ensure their use and development in the interests of the Dominion at large. Furthermore, believing that our neglect in the past to apply this principle of justice in the administration of public affairs has led to widespread speculation in land and the other natural resources of the country, thereby creating a desire to obtain wealth easily and without giving adequate service in return and that this condition is a principal contributing factor in the high cost of living, city slums and rural depopulation, therefore this congress recommends such a readjustment of existing methods of taxation as will tend to prevent individuals or corporations from profiting, hereafter, at the expense of the public through appropriating the land, the mineral, and which will at the same time best promote the interests of the community at large."

This resolution expresses the stand of the Christian churches in Canada, and Farm and Dairy heartily endorses this resolution. We, too, believe that the Creator intended the earth for the use of all His children and that when any individual monopolizes for his own use land or its resources he should pay to the state in taxes what the use of that land is worth to him. In this way, by the taxation of land values, the holding of vacant land would be made impossible, industry as represented in buildings and crops would not be taxed, more capital would be available for productive enterprise, and thus, indirectly, the problem of involuntary poverty would be done away with. This resolution also expresses the new attitude of the Church toward social problems.

Better Than Military Drill

THE value of military drill for developing the physique of the city man is an argument much used by the Minister of Militia in defence of military training. Col. Sam Hughes glories in militarism. Had he his way he would have universal military training in Canada even as they have it in Germany. We suspect, however, that the worthy Colonel is more interested in propagating the military spirit in which he glories than in developing the physique of men. If, however, Col. Hughes' first desire really is to develop the physique of Canadian manhood we would like to make a counter proposition for his consideration that we believe has more points of merit than his military training.

The season of the spring rush on the farm is approaching. Lack of labor will be the greatest detriment to getting the crops in the ground in good condition. Here is our suggestion: Why not march a few regiments of city militia men out on to the farms to help the farmers with their seeding? The same tactics might be followed at harvest time. The city recruits would then get fresh air, physical exercise, and they would develop more endurance in following the plow than in military marches. If they desired practice in shooting they might take their rifles along in the evenings and clean out the ground hogs that in some sections are becoming quite a pest. This practice in marksmanship would be of much more advantage in actual war than would target practice. The great advantage of this plan, however, would be that it would add to the wealth of the country and solve one of the farmer's most vexed problems, instead of being a source of wasteful expenditure as is the present system of military training. We respectfully submit the plan for the consideration of the Minister of Militia and Defence.

Get the Bulletins

ARE the bulletins of the Dominion and Provincial Departments of Agriculture coming into your home? You cannot afford to be without them. Some reports are regular encyclopedias of information. Where, for instance, would you get more concrete information on feeding dairy cows than that contained in Mr. Grisdale's recent bulletin on the subject? The annual report of the Ontario Agricultural College has information well worth while on every branch of farming. The Nova Scotia annual report dealing as they do with some separate branch of farming each year are a complete textbook to themselves. Other agricultural reports are equally worthy of mention. A postcard to Ottawa to the Department of your province will bring these reports to you regularly.

Occasionally we hear criticisms of government reports and sometimes these criticisms are well taken. When scientists get in the habit of talking in the language of their trade they should stop writing bulletins for general distribution. Many bulletins are so technical that plain ordinary folks like the most of us would need a scientific dictionary to follow them. Such bulletins are not read or appreciated. In many cases, however, criticisms of government bulletins are inspired by the fact that conclusions published therein do not agree with the farmer's own ideas on the subject.

Farm and Dairy has every confidence in the matter contained in the bulletins from our various Canadian departments and colleges. If farmers can not know too much about our occupation and the government bulletin is an excellent source of information.

National Livestock

The report of the Record Association has just been received. The report contains information of interest to those interested in the poultry industry of the country.

The financial receipts of \$29,200, total \$27,372.08, and of \$2,127.00.

ADVERTISING

STUDYING THE

"Every Firm in Canada"

Have you ever reached the number of your directory will be surprised to find it comes to 100,000.

Do you ever wonder how they get them—at least, the ones you do not, you know education. For a day is an education in fact, scores of new are actually text books in the

The machinery points out the machine put out also explains the principles upon which particular machine was put out by a man making gasoline become in a short with such a machine catalogue is a most

In fact, scores of new are actually text books in the machinery points out the machine put out also explains the principles upon which particular machine was put out by a man making gasoline become in a short with such a machine catalogue is a most

Two particularly leguous reached our day (and the up-to-date) so attractive that way to the waste paper

Company on the book and excellently illustrated who reads carefully logic will have knowledge of it and should understand working of a gasol other catalogue, on arator, is just as a cross section view of every part so of young child could

This is the true catalogue. Not alone catalogue good points machine, but also, fully, with illustrations principles that apply to the same type. The in the best out of it is putting out a catalogue. As I said at this talk, he who does modern catalogue of which he is interested source of valuable

In a Public School in one of the big older pupils are all catalogue of auction animals in order that the breeding, pedigree, and description of the animal

THE MODERN EDUCATOR.

In this and every find the names of our turing firms. If, during season, you are planning of the products these will be to your advantage and study their catalogue write mention Farm

"A Paper Farmer"

National Live Stock Records

The report of the Record Committee to the Record Board and the Record Associations for the year 1913, has just been issued from Ottawa. The report contains much information of interest and value to all interested in the pure bred live stock industry of the country.

The financial statement shows total receipts of \$29,329.83. Expenditures total \$27,272.58, leaving a balance on hand of \$2,110.25, as compared with

a balance of \$4,135.30, at the beginning of the year. The report of membership in the various associations shows the Clydesdale Breeders' Association in the lead with 2,179 members. Shorthorns make a good second with 2,043 members. Ayrshire breeders number 1,984 members, and so on down the list, to the French Coach with four registered members. The Holstein Association, it may be noted, have not joined their Association with the National Records Board.

This report gives full information on registration and transfers for all the different breeds during the year, and also the record of importations of pure bred stock. A valuable feature is the information given concerning the Live Stock Pedigree Act, transportation of pure bred animals, United States customs regulations, United States quarantine regulations, and veterinary inspection.

AD. TALK
CCXXXV

STUDYING THE CATALOGUE

"Every Firm is Known by It's Catalogue"

Have you ever made an estimate of the number of catalogues that reach you during the year? You will be surprised to know of the number that comes your way

Do you make a practice of reading them—at least, the best of them? If you do not, you are missing a liberal education. For the catalogue of today is an educator of the first kind. In fact, scores of them that I recall now are actually kept as reference or text books in the farmer's library.

The machinery catalogue not only points out the good points of the machine put out by that firm, but it also explains clearly and illustrates the principles upon which that particular machine works. The average man who studies closely the catalogue put out by a number of our firms making gasoline engines cannot but become in a short time an expert with such a machine. The modern catalogue is a strong factor in our educational system.

Two particularly attractive catalogues reached our office the other day (and the up-to-date catalogue is so attractive that it seldom finds its way to the waste paper basket). They are put out by the Massey-Harris Company on the best of book paper, and excellently illustrated. The man who reads carefully their Spray Catalogue will have a much broader knowledge of spraying equipment, and should understand clearly the working of a gasoline engine. The other catalogue, on their Cream Separator, is just as explicit. The clear, cross section view shows the working of every part so clearly that even a young child could understand.

This is the true function of every catalogue. Not alone should it point out the good points of that particular machine, but it should explain clearly, with illustrations, etc., the principles that apply to all machines of the same type. The firm that is taking the best out of it's opportunities is putting out a catalogue of this nature. As I said at the beginning of this talk, he who does not study the modern catalogue of machinery in which he is interested is losing a source of valuable information.

In a Public School in Wisconsin, in one of the big dairy districts the older pupils are allowed to use the catalogue of auction sales of dairy animals in order that they may study the breeding, pedigrees and the description of the animals offered.

THE MODERN CATALOGUE IS AN EDUCATOR.

In this and every issue you will find the names of our best manufacturing firms. If, during the coming season, you are planning to use any of the products these firms put up, it will be to your advantage to secure and study their catalogues. When you write mention Farm and Dairy,

"A Paper Farmers Swear By,"

Appreciation of the West

The organization of the United Farmers of Ontario has been a pleasant news to the organized farmers of the West. No sooner had Mr. Rice Shepard of the United Farmers of Alberta heard of the success of the organization meeting in Toronto than he penned the following note to Farm and Dairy:

"I am delighted to hear of the organization of the United Farmers of Ontario. I trust that we shall in the near future have an organization known as the United Farmers of the Dominion of Canada, all working for the good of the cause as a whole. When this time has arrived we shall be a power in the Dominion, and I trust will use that power for the best interest of the whole Dominion. Brighter and better days are in store for the farmers of Canada, if they will cooperate. If one thing pleases me more than another in this matter it is that the West and the West are getting closer together."

The Rural Publishing Company

The annual meeting of The Rural Publishing Company, Ltd., publishers of Farm and Dairy, was held in the head office of the company, Peterboro, on March 27th. The reports presented showed that the company has had the most successful year in its history. Receipts in all departments showed substantial increases, and the net improvement in the operations of the company was of a most satisfactory character. The making of further improvements in Farm and Dairy was authorized.

The following officers were elected: President, W. W. Ballantyne, Stratford, ex-President and a Director of the Canadian Ayrshire Cattle Breeders' Association; Vice-President, G. A. Gillespie, Peterboro, a Director and Past President of the Eastern Ontario Dairymen's Association; Managing Director and Secretary-Treasurer, H. B. Cowan, Peterboro, formerly Provincial Superintendent of Agriculture and Director; John R. Dargavel, M.L.A., Elgin, Past President of the Eastern Ontario Dairymen's Association; John H. Scott, Exeter, a Director and Past President of the Western Ontario Dairymen's Association; A. C. Hallman, Breslau, Past President of the Holstein-Friesian Cattle Breeders' Association; Henry Glendinning, Manilla, Past President of the Eastern Ontario Dairymen's Association and ex-Master of the Doves' Exchange; Harold Jones, Prescott, a Director of the Ontario Fruit Growers' Association; A. J. Reynolds, Solina, Secretary, Toronto Milk Producers' Association.

DE LAVAL
CREAM SEPARATORS
are the cheapest
as well as the best

LOOK AHEAD!

DON'T TRY TO SAVE \$10.00 TO-DAY IF IT MEANS A LOSS of 25 cents a day for all the years a cream separator may last you. THAT'S JUST WHAT YOU WILL DO IF YOU BUY A CHEAP inferior separator simply because its first price is a little less than that of the De Laval.

WHEN A PRUDENT MAN BUYS A CREAM SEPARATOR HE knows that what he is really paying for is not just so much iron, brass and tin, whether it is called a separator or not.

WHAT HE WANTS IS A MACHINE TO PERFORM A CERTAIN service, and he must be sure of the machine doing the work for which it is intended as thoroughly and with as little effort and care as possible on his part.

THOUSANDS OF BABCOCK AND other tests have proved that the De Laval skims closer than any other cream separator under any conditions and particularly under the hardest conditions always experienced at times.

JUST THINK WHAT A LOSS OF as little as 10 cents worth of cream at each skimming means to you in a year—twice a day for 365 days—over \$70.00, and with as many as ten cows the cream losses alone from an inferior separator usually amount to more than this.

CREAMERYMEN, WHO are dependent on their separators for business success, have long since found out the difference between De Laval and other separators with the result that De Laval factory separators are almost universally used the world over to-day.

DE LAVAL SEPARATORS are identical in all sizes, for one cow or a thousand, and the differences between separators are just the same with the smallest machine and the largest. They mean as much relatively to the user as the big user.



THEN THERE IS A SAVING IN LABOR BECAUSE OF THE easier running and greater capacity of the De Laval over other machines and the less care required in cleaning and adjustment, worth at least 20 cents a day.

AND THERE IS THE INDISPUTABLE FACT THAT A DE Laval machine lasts from ten to twenty years as against an average of from two to five years in the case of other separators, or five times the average life of competitive machines.

THESE ARE THE REASONS WHY DE LAVAL SEPARATORS are cheapest as well as best, why thousands of other machines are yearly being replaced with De Laval and why their use is rapidly becoming as universal on the farm as in the creamery.

IT SHOULD BE REMEMBERED, MOREOVER, THAT IF first cost is a serious consideration a De Laval Separator may be bought on such liberal terms that it will actually save and pay for itself, as many thousands of them have done.

These are all facts every De Laval local agent is glad of the opportunity to prove to any prospective buyer. If you don't know the nearest De Laval agent, simply write the nearest main office, as below.

De Laval Dairy Supply Co.

MONTREAL PETERBORO WINNIPEG VANCOUVER LIMITED
50,000 Branches and Local Agencies the World Over



CHARACTER is like bells which ring out sweet music and which when touched accidentally even, resound with sweet music.—Phillip Brooks.

The Leak in the Morse House Roof

By ROSE D. NEALLEY
(New England Homestead)

THE Morse house stood on the eminence of a sun-kissed hill. In the distance on either side other hills, purple or blue against the horizon, reflected the sunshine or lay dark in the shadows as the case might be. Sometimes, as to-day, a mist rolled up from the valley and curtained those other hills from view. The mist betokened rain; and Phoebe Morse, gazing past the scarlet geraniums that brightened her sitting-room window, noted anxiously the gathering clouds.

"It's goin' to rain," she muttered, and "an' he ain't mended the roof yet. That leak grows bigger an' bigger. I expect we'll be lit'rally drowned out if I can't get him to mend it soon."

She turned to her sewing for a few minutes, then again she scanned the horizon. The mist was growing thicker, the clouds heavier; even the valley had disappeared from view. Indistinctly at first, the figure of an old man took shape. He ascended the hill leisurely and turning into the dooryard, paused to caress a sleek old cat which sat in comfortable solitude on the doorstep. Then he entered the house slowly and appeared in the sitting-room door.

"Well, Phebe," he greeted his wife cheerfully, "how goes it?"

Phebe's firmly-set mouth did not relax. She answered with apparent irrelevance, "It's goin' to rain."

"Well, what of it?" he returned blithely. "I ain't to blame, be I? Besides, we need it."

"We need somethin' else, too."

"Well, what?"

"You know 't well enough what I mean. You ain't mended the roof yet."

But Alonzo Morse looked only slightly crestfallen. "I clean forgot, Phobe! Honest, I did."

"I should think I had reminded you time enough."

"Well, now, Phebe, be reasonable. It's jest like this. When it rains I can't go out in the wet to mend it and when it don't rain, it don't need mending."

But Phebe refused to be placated by any facetiousness on her husband's part.

"It ain't raining for more'n three weeks," she reminded him, "an' you've had time enough to 'tend to it."

She folded up her work as she spoke, and going into the kitchen began preparations for supper. She was considerably hindered in her work by six kittens of playful disposition that were running about and constantly getting under foot. She had requested her husband to drown them while they were yet in the blind stage, but he had, as usual, deferred the unpleasant task until the kittens

had developed such attractive and cuddlesome qualities that he hadn't the heart to end their innocent careers. Phebe sputtered to herself as she tossed first one and then another on the top of her boot. The kitchen was a marvel of shining cleanliness. The walls were freshly papered, the tin teakettle shone like silver, the stove was nicely polished, and the kitchen table with



What Canada Has Done For One Immigrant

This is the home of Peter Bergan, a prosperous Mennonite farmer in the Plum Coulee District of Manitoba. Mr. Bergan is only one of those who have come to our shores and established homes for themselves such as would never have been possible in the land of their birth.

its snowy cloth and wholesome food looked tempting enough to her hungry husband.

"You certainly be a master-good cook, Phebe," he complimented her. "There's nobody I know of that can make such gingerbread as yours."

Phebe was not indifferent to her husband's appreciation of her cooking. Her mouth relaxed into a smile. "An' there ain't an egg in it, either," she explained, "an' no milk; only hot water. Cookin's jest a knack."

After supper Phebe washed the dishes while her husband took care of the stock, and her grievances were forgotten for a few hours. She even sang a gospel hymn while she sat mending stockings by the big kerosene lamp. She awoke in the middle of the night, and hearing a mighty pattering on the roof, remembered the leak and that she had forgotten to place a pail beneath the spot to catch the water. Alonzo was slumbering as peacefully as though his negligence had not been the cause of all this trouble.

She arose, put on her bed shoes, and went after the pail and a mop. She mopped up the rivulet of water that was meandering across the sitting-room carpet, and having placed the pail in the right position to catch

the water from the leak, she again retired to bed. Twice during the night she got up and emptied the pail while her husband slept on tranquilly as before. In the morning the rain had ceased. The leaves on the great poplar in front of the house looked as if they had been dipped in the sea. The flower cups were full of water and the old fire tree was decorated with diamonds and pearls.

The hills across the valley seemed smiling a "good morning" to the Morse farm. Phebe was not indifferent to the beauty of the scene as she gazed the chickens their breakfast in the barnyard. But such a barnyard! It was strewn with cart wheels, tumbled-down carts, an old hayrack, broken tools and odds and ends of every description. There was not a day of her life but Phebe was reminded of the fact that she had married a shiftless man, although he had proved an affectionate husband, a tender father to her children, and honest and kind as he was good-natured.

"I ain't been strict enough with him," she told herself. "I should have put my foot down hard at the beginning."

To atone for her delinquency in this respect she determined to "put her foot down hard" now, even

get somebody besides me to do your cookin'."

"Why, Phebe, how you talk!" "I mean it," returned Phebe.

But Phebe's threat, a had seldom been carried out. "Wimmin have to talk," he said to himself as he drove up the road toward Jim Stebbins'.

It was supper time when he returned home, but there was no light in the window. The kitchen was empty, and there was no sign of supper on the table. There was a fire in the stove, but the empty kettle stood in the kitchen sink.

A sudden fear shot through his heart. The heart he thought that Phebe had threatened to leave him. "But not for a week—not for a week," he repeated, to himself.

"Phebe," he called in a terrified voice.

A feeble response came from the sitting-room through the closed door. "That you, Lonzo? I thought you'd never come. I've sprained my ankle."

It was beside the couch in a moment. "How'd you sprain it, Phebe?"

"Caught my foot in one o' them holes in your floor," was the curt reply.

"Oh, Phobe! I'm so sorry."

"That don't I mend worn-out floors nor sprained ankles," she snapped.

In the days that followed Alonzo proved himself the most attentive of more tender or efficient. Phebe could not step on her foot for several days. Meanwhile a carpenter with hammer and saw was laying a new kitchen floor. The sound was music to her ears, and more efficacious than ointment to the wounded ankle. "No great loss without some small gain," said Phebe to herself. "A sprained ankle meant a new kitchen floor. I guess I've got him started on the right road at last."

By the end of the week she could hobble about with the sprained ankle.

"I'll resign in your favor in the cookin' department," said her husband, delighted to have her about once more.

Her reply was plainly irrelevant. "Have you mended the roof yet?"

"Why, Phebe! You know I ain't had no time."

"My week's up to-morrer."

"What week?" Then remembering her threat, he added: "Good land! You must give a feller time."

Phebe hobbled to the door and glanced at the barnyard. "The barnyard ain't cleaned up either," she went on.

"What a hustler you be, Phebe," he grinned. "You keep a man bumpin' all the time."

The next day nothing more was said about the roof or the barnyard.

On the second morning Alonzo remembered that he was out of "feed" and must get to town. "I'll start in the back until dark," he told his wife. "You'd better favor that foot to-day and keep off from it. What do you want me to bring you from town?"

"Nothin'."

"Nothin'?" "I'll bring you a box o' peppermints anyway. I know you're master fond of 'em."

"I shan't want 'em," said Phebe curtly.

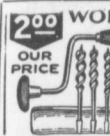
After her husband had driven off she threw a shovel over her head and hobbled down the road to the nearest neighbor's, Samuel Scott's. She encountered Mr. Scott on the doorstep.

"Be you very busy to-day?" she asked him.

"Well, no—not so very," he responded. "What's up?"

"I'd like to have you drive me to the depot, if you can spare the time. I want to come to town and I want to go over to Eladza's."

(Concluded next week)



RATCHET BRACKET

WITH CAN

Greatest Tool

We bought complete
lighting-out, double point
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complete with Ratchet Bar
for about half the regular
price. Two dollars brings
eight piece outfit. Postage
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Write for our hardware
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You run no risk
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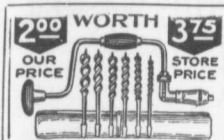
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Geo. Keith

Seed Merchants

124 King St. E.



RATCHET BRACE AND BIT SET WITH CANVAS ROLL

Greatest Tool Bargain of the year. We bought complete factory stock of high grade, lightning-cut, double-point Auger Bits at tremendous sacrifice. Highest grade Bits now yours, complete with Ratchet Brace and Canvas Roll for about half the regular store prices. Order now. Two dollars brings complete right piece outfit. Postpaid anywhere in Canada. Only **2.00**

TOOL CATALOGUE FREE
Write for our hardware and tool catalogue, giving lowest direct-dealing prices. Big savings in every department.

The Hamilton Company Limited
FORMERLY STANLEY, MILLS & CO.
HAMILTON 1872 CANADA

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**ARCHITECT
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Specializing in

**Sanitary Dairy and Stock
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Write for Free Barn Book and Testimonials.

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You run no risk in buying these. They are pure and clean. Prices are at warehouse Toronto. Bags free. Do not delay in ordering:

	Bush
American Banner, test 39 lbs.	75c
Sensation, test 42 lbs.	75c
Black Hawk, test 42 lbs.	75c
Abundance, test 41 lbs.	75c
Victory (grown in Sweden), test 43 lbs.	81.5c
Registered Siberian, test 38 lbs.	1.00
O.A.C. No. 72, test 37 lbs.	2.75

We strongly recommend the Sensation Oats. This is the best sample of oats we have in the warehouse. The Registered Siberian are the best bargain. We expect to be sold out of O.A.C. No. 72 any day. For other grains and seeds, seed corn, etc., see our catalogue or our advertisement in last week's issue of this paper, page 32.

Geo. Keith & Sons

Seed Merchants since 1866

124 King St. E., TORONTO

The Upward Look

The Founder of Foreign Missions

Nearly eighteen centuries elapsed after the command was given "Go ye into all the world and preach the gospel" before the darkness and silence which brooded over the Church concerning its duty to obey those parting words of the Divine Master was stirred. But the marvel of history was again repeated and again God chose "one of low degree" to inaugurate a movement of world-wide importance, that of Foreign Missions.

In an obscure village in England, a young man, William Carey, was working with his father at their trade of shoemaking. His educational advantages had been very limited, but he had taken a special interest in map drawing, placing upon them what he could hear about the people occupying the different countries, especially their religious condition. He was painfully shocked to discover how large a proportion of the world was still in heathen darkness. The heathen lands he painted black and white on these maps on the wall opposite his work bench so that he might never forget the "immense number of his fellow-beings who were living and dying in spiritual blindness."

One evening at the weekly prayer meeting Wm. Carey tremblingly arose and asked if the church was doing its duty to the heathen world. In stern and unfeeling tones his pastor said: "Sit down, young man. When God is ready to convert them He will do it without your help or mine." Though deeply pained, Wm. Carey was not discouraged and resolved to do all in his power to assist him to do his own duty in the matter and proceeded to secure the requisite books for the study of different languages. His biographer states that "his progress was phenomenal and that in a short time he gained a good working knowledge of several of them."

At an early age he secured a license to preach, and freed from the necessity of manual labor he gave his entire time to speaking and writing on the subject to which he had dedicated his life. News of the "fascinating," as he was called, soon spread far and wide. One high official of the church asked, "How the consecrated cobbler who was going to convert the heathen world was getting along."

But God was with Wm. Carey and soon influenced a number of people to organize the first modern foreign missionary society, which sent Carey and one co-laborer as their representative to India. There he found ample scope for his linguistic gifts. In various ways, one of the most important being the translation of the New Testament into the language used in that portion of India. The same translation is still in use with slight revision by missionaries now working there.

Within five years from Carey's sailing, the great London Missionary Society was formed and within a period but little longer than the lifetime of our pioneer missionary, similar societies were organized in all the leading denominations of the Christian world.

Such was the Father's blessing upon the devout, historic life, giving everywhere his battle cry, "Attempt great things for God, and expect great things from God."—I.H.N.

In order to get a pudding to come easily from the mould, plunge the latter into cold water for a moment.



**Give Me a
Chance to Prove
My Flour**

Cream of the West Flour

The hard wheat flour guaranteed for bread

For several months we have been selling flour direct from our mills to the farmers of Ontario. Have you taken advantage of our splendid offer? If not, you will find it profitable to do so now. Read our prices:

GUARANTEED FLOURS Per 25-lb. bag

Cream of the West Flour (for bread)	\$2.90
Queen City Flour (blended for all purposes)	2.50
Monarch Flour (makes delicious pastry)	2.50

CEREALS

Cream of the West Wheatlets (per 6-lb. bag)	.25
Norwegian Rolled Oats (per 90-lb. bag)	2.50
Family Cornmeal (per 98-lb. bag)	2.25

FEEDS

	Per 100-lb. bag
"Bullrush" Bran	\$1.30
"Bullrush" Middlings	1.35
Extra White Middlings	1.45
"Tower" Feed Flour	1.60
"Gem" Feed Flour	1.75
Whole Manitoba Oats	1.50
"Bullrush" Crushed Oats	1.55
Manitoba Feed Barley	1.35
Barley Meal	1.40
Oil Cake Meal (old process, ground fine)	1.70
Chopped Oats	1.55

PRICES ON TON LOTS: We cannot make any reduction on above prices, even if you purchase five or ten tons. The only reduction from the above prices would be on carload orders.

TERMS, CASH WITH ORDER. Orders may be assorted as desired. On shipments up to five bags, buyer pays freight charges. On shipments over five bags we will prepay freight to any station in Ontario, east of Sudbury and south of North Bay. West of Sudbury and New Ontario, add 15 cents per bag. Prices are subject to market changes.

**Any One of These Books Free
When You Buy Three Bags of Flour**

The Dominion Cook Book has 1,000 recipes and large medical department. The books by Ralph Connor, Marian Keith and J. J. Bell, are full of absorbing interest. Start now to build up your library with these books. You may choose a new book each time you buy three bags of guaranteed flour from us (any brand.) If you buy 6 bags you get two books, and so on. Enclose 10 cents for each book to cover postage. To get a book remember that at least three bags must be flour.

Dominion Cook Book.	BOOKS BY MARIAN KEITH
BOOKS BY RALPH CONNOR	Duncan Polite
Black Book	Treasure Valley
Sky Pilot	'Lisbeth of the Coast
Man from Clengary	Whither Thou Goest,
Clengary School Days	by J. J. Bell
The Prospector	
The Foreigner	

The Campbell Flour Mills Co. Ltd.

(WEST) TORONTO - ONTARIO

Are We Slaves to our Work

With the Household Editor
Hello, Mrs. Smith! A few of the ladies in the neighborhood are coming over to our house next Thursday afternoon. I would like to have you come along and bring your sewing.

Well, I would like to go, Mrs. Jones, but really, on Thursday afternoons I always do my weekly mending, so couldn't possibly get away; and Mrs. Smith hung up the telephone receiver with a sigh.

We have all met women of Mrs. Smith's style who are not willing to believe they are doing their duty to their families and to themselves by becoming slaves to their household duties.

There is such a thing as being over-slaved about our work. And then, too, it is a very easy matter to get into a rut in the way we perform our household duties, not noticing to stop to think if there is not some easier way in which they may be done more quickly and with less expenditure of labor.

If by a little planning and forethought we could take but a few minutes on every task that we do in a day we would find time for the very recreation that is every woman's right. In the farm home especially, where there are never-ending duties to be performed, there is great need for a system, for we are really, that system is a wonderful labor-saver.

While it is well and good to read of how others plan their work and then try to follow out their suggestions when doing our work, we really must use our own brains, for what proves to be a labor-saver in one home may not be of much benefit in another. Some one may argue that they are not slaves to their work, and endeavor to systematize their work as much as possible, and yet every day duties are cropping up that prevent their getting the work done on scheduled time. We realize that this is not quite true, but still we are not so quire disheartened, as is Elbert Hubbard says, "Calm, patient, persistence pressure wins. It wins! Violence is all forms of fear, wrath, vengeance, are all forms of fear, and do not endure. Silent, persistent effort will dissipate them. Be strong!"

Spring in the Garden

With the coming of the first warm days of spring—who is not attacked with the Wanders'! We yearn to get out of the house, indeed this is one of the first symptoms of spring fever, and is only natural after a long season of winter's cold and shivers, during which we must be an unwilling prisoner from our outdoor pleasures.

To dig in the soil and plant something that stuns up our main desires on those first warm days. Spring is the best time in the year when hope and smiles strongest into tired old brains from every peeping bud and blossom. Make this your garden motto for this spring, and see how much pleasure you derive from it:

Cloth that wears like Leather

Remarkable discovery by English Firm

A remarkable holproof cloth that will wear or wear out and yet looks exactly as the finest tweed and serge has been made in the Holproof Clothing Co., 54 Theobalds Road, London, W.C. They make from these wonderful cloths a well made suit for only \$8.50. Brooches for riding, riding, only for two dollars, or a pair of well-fitting, smart-cut trousers for \$1.50, and if a suit appears well made, this, another is the best. See advertisement in page 2 and write for patterns, etc., to the firm's Toronto Branch, 113 Huron Street, Toronto, Ont.

Now, therefore, I will plant a plant just to see it grow. I will plant at least one kind that I have never grown before. At least a part of the garden I will prepare and till with my own hands. I will see that every tree and bush and herb on my place is given the very best opportunity to make the most of itself.

When Ordering Patterns
Farm and Dairy would especially call to the attention of our readers the fact that coin of any description, stamps, etc., sent by registered letter. Any card found in our files will be sent to the dead letter office. We trust our folks will bear this in mind when ordering patterns and will enclose stamps or postal note.

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Home

He had been around from church to church trying to find a congenial congregation, and finally he stopped in a little church just as the congregation read with the minister: "We have left undone those things which we ought to have done, and we have done those things which we ought not to have done."

The man dropped into a pew with a sigh of relief. "That goodness," he said, "I've found my crowd at last."—Ladies' Home Journal.

When you cook green vegetables and wish to have them green when served, let them cook with the cover off.

THIS WASHER MUST PAY FOR ITSELF.

It was five dollars I had to spend for the machine, but I didn't regret it. I wanted a horse, but I didn't have one. I wanted a horse, but I didn't have one. I wanted a horse, but I didn't have one.

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Fresh Meat

Meat, when used in a palatable and desirable form, is no ice or cold, and is very difficult to keep fresh during the summer months. It may be, for a few days, or even a week, in a refrigerator, but its quality of dry air, and salts cannot get at it. A very convenient method is to freeze it. A supply of fresh meat, in where two farmers or sheep every week or the carcass. After it is into convenient-sized pieces, it is sprinkled with salt and kept in its keeper.

During the winter months it is usually no difficulty in getting it. It is packed in snow, and kept in good most convenient way, and then put there. Lay each piece out separately, and then it can be packed in a box and kept frozen.

To freeze a quarter of a pound of meat, in some places frozen solid, is a factor in cutting it apart, because it is more difficult when a piece of meat. Avoid alternate freezing of meat, as that makes it dry and also makes it flavorless.

Opinions on Refrigeration

Here I am again! You believe in it, and under my feet, but I do not want to remind Farm and Dairy Department readers that what is in this is going to be a fair and open representation.

I was quite pleased with the results of Farm and Dairy in the March 19th issue, which showed that 360 of my subscribers thought it was the most important question. It seems to me that a fairly good representation of the farm folk, considering there are 510 ballots cast. This is just the beginning of Farm and Dairy's annual affair, and I am presently intending doing a paper to cast our vote numbers next year.

Before leaving the farm, I would like to leave an impression on you. I read a few articles and it struck me as a labor-saver. It was this shallow market basket of plums, and having a basket to be used when setting up the table. Linen and fresh papers from day to day are cleanliness.

By means of the basket to the cellar or store room, and getting and in putting it. The basket is made of a tray for this purpose, and it can be hung on the wall. The hands free to open doors or to hold other things. After the meal is over, the basket can be carried the soiled dishes sink and can be washed in the sink.

Of course, the dinner was ever growing in popularity, and more convenient, but for those who are present see to your way clean dinner wagon, we can do the market basket idea. I would also like to

ROYAL YEAST IS BEST YEAST IN THE WORLD. FARMERS OF ONTARIO. Are you requiring help this Spring? Young forward. For full particulars apply BOYS' FARMER LEAGUE, Drawer 126, Winona, Ont.



The best paint for your house

Paint-making is more than mixing some pigments and liquid with a paddle. This explains why you can give best protection to your house if you use scientifically prepared paint.

Real paint—the kind you want—made scientifically, in a way that calls for expert paint-makers, scientific selection of materials, accurate proportions, immense grinding and mixing machinery and other factory equipment. No hand-mixed paint can begin to compare with

Low Brothers High Standard LIQUID PAINT. Careful tests have shown that good wearing and protecting qualities of paint depend upon the fineness of the grinding as well as upon the accurate proportions of the materials, and their high quality. "High Standard" is made of the choicest materials and in the exact proportion that years of experience tests have proved to give best results. No one can approach this in home-made paint.

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Flamingo's Jaw Cure. It is simply the best Jaw Cure. It is simply the best Jaw Cure. It is simply the best Jaw Cure.

Flamingo's Jaw Cure. It is simply the best Jaw Cure. It is simply the best Jaw Cure. It is simply the best Jaw Cure.

Fresh Meat

Meat, when used fresh, is more palatable and desirable than when salted or cured. On the farm, where there is no ice or cold storage of any kind, it is very difficult to keep meat fresh during the summer months, and only a small amount can be handled at a time. It may, however, be kept for a few days, or even a week, in a cool cellar, where there is a free circulation of dry air, and flies and insects cannot get at the meat.

A very convenient means of keeping a supply of fresh meat, most of the time, is where two farmers kill a veal or sheep every week or so, and divide the carcass. After the meat is cut into convenient-sized pieces, it may be sprinkled with salt, which will greatly add to its keeping qualities.

During the winter months there is usually no difficulty in keeping fresh meat. It can be frozen or packed in snow, and kept in good shape. The most convenient way is to cut the carcass into desirable pieces for home use, and then put them out to freeze. Lay each piece out separately, so that it will freeze thoroughly. After this it may be packed in a box or barrel and kept frozen.

To freeze a quarter of beef, and hang it in some place where it will remain frozen solid, is not so satisfactory as cutting it into small pieces, because it is more difficult to handle when a piece of meat is desired. Avoid alternate freezing and thawing of meat, as that makes the meat tough and also makes it lose its flavor.

Opinions on Referendum Results

"Last Fanny," Peterboro Co., Ont. Here I am again! You see, I don't believe in letting the grass grow under my feet, but drop in occasionally to remind Farm and Dairy Home Department readers that I am interested in what is going on in this department.

I was quite pleased to read the results of Farm and Dairy's Referendum in the March 19th issue, which showed that 360 of my sisters voted on the important questions contained therein. It seems to me that that was a fairly good representation from the women folk, considering that there were only 510 ballots cast by the men. This is just the beginning, and if Farm and Dairy makes the Referendum an annual affair, as they evidently intend doing, we will be prepared to cast our votes in larger numbers next year.

Before leaving the family circle I would like to leave an idea with the readers which I read a few days ago, and it struck me as being a splendid labor-saver. It was this: Secure a shallow market basket of unyielding splints, and having a reliable handle, to be used when setting and clearing away the table. Line the basket with fresh papers from day to day to ensure cleanliness.

By means of the basket one trip to the cellar or store room will suffice in getting and in putting away the food. The basket is much handier than a tray for this purpose, because it can be hung on the arm, leaving the hands free to open and close doors or to hold other necessities for the meal. After the meal is over the basket can again be put to good use in carrying the soiled dishes to the kitchen sink and can be returned after being washed in the same way.

Of course, the dinner wagon, which is ever growing in popularity, is a much more convenient contrivance; but for those of us who cannot at present see our way clear to have a dinner wagon, we can make good use of the market basket idea.

I would also call to the attention

of the women folk a special bulletin which has recently been published, entitled "Sewing, Darning and Patching," compiled by Miss Della Hughes of Toronto. This bulletin contains much valuable information along all lines of sewing, and would be well worth careful perusing by everyone. In her introduction, Miss Hughes says, "In sewing as in every other work, perfection, beauty and endurance depend upon a thorough knowledge of the rudiments, as well as the details of construction." This bulletin may be secured on application to the Institutes Branch of the Ontario Department of Agriculture at Toronto. Mine only cost me a post card, and I consider myself well paid for the trouble.

Sometimes in severe illness, the hair cannot be combed and becomes so matted it is difficult to comb the tangled locks. When this occurs saturate the hair with alcohol, and the tangles will disappear under brush and comb, like magic.

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Anything you want to know about fixing up your home, ask

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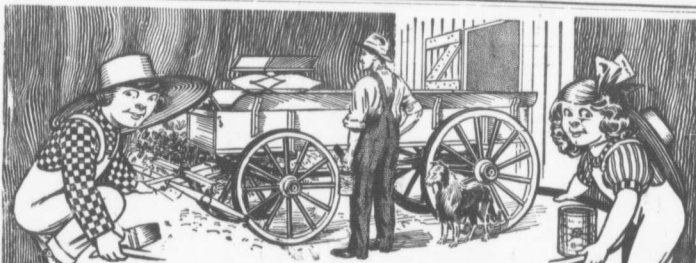
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Just Like New

A NEW wagon without a coat of paint would look no better than the old wagon you have right in your barn—it's the bright, fresh, shiny paint on the new wagon that makes it appear so attractive.

Martin-Senour Wagon and Implement Paint

will make your old wagon "Spic and Span", and give the appearance of a new wagon, at small cost. This Paint is equally good for the Plow, the Reaper, the Binder, and all other Farm Implements that should be kept paint protected.

For every kind of painting you want to do around the farm, house, or barn, there is the right grade and shade in Martin-Senour Paints and Varnishes—just the right Finish for every purpose.

Let us tell you how to make things "Spic and Span"—write for "Farmer's Color Set" showing the various Paints and Finishes for farm service—free for the asking.

The Martin-Senour Co. Limited MONTREAL.



IT'S WASHDAY IN THE MORNING!

What does it mean to you? Is it a burden—a toil—a weary round of drudgery? Get a



Maxwell

"EXCEL-ALL" WASHER

and laugh at washday. Just put the clothes in. The washer does all the hard work. Clothes come out clean and white—better than if you spent hours scrubbing over a steamy tub. The Maxwell "Excel-All" Washer has an adjustable wringer board, top opens up giving heaps of room for work and tub has assisting spiral springs and ball bearings.

Ask your dealer to show you the Maxwell "Excel-All." Also inquire about our Washers for Water, Electric or Gas Engine power.



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FOR SALE—Iron Pipe, Pulleys, Belting, Balls, Chain, Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for list, stating what you want.—The Imperial Waste and Metal Co., Dept. F. D., Queen Street, Montreal.

WE WILL PAY YOU \$120 to distribute religious literature in your community. Sixty days' work. Experience not required. Man or woman. Opportunity for promotion. Space time may be used.—International Bible Press, 182 Readina Ave., Toronto.

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He's Big All Over And Good All Through

Big Ben is built for endless service. He has no "off-days," no shut-downs. His four years of existence have been one long record of on-the-dot accuracy. 7,000 Canadian dealers say that he does more efficient work for less pay than any other clock alive.

A Big Ben attachment, over 3,000 strong, leaves La Salle, Illinois, every day. Their sparkling trim nickel-plated coats of implement steel, their dominating seven-inch height, their big, bold, black, easy-to-read figures and hands; their big, easy-to-wind keys—all make Big Ben the world's master clock.

In return for one little drop of oil, he'll work for you a full year. From "Boots on" to "Lights out" 165 times—he'll guarantee to tell you the

time o' day with on-the-dot accuracy. He'll guarantee to get you up either of TWO WAYS—with one long steady, five-minute ring if you need a good big call, or on the installment plan, with short rings one half-minute apart for ten minutes, so you'll wake up gradually, and he'll stop short in the middle of a tap during either call if you want to shut him off.

Big Ben is a mighty pleasant looking fellow. His big, open honest face and his gentle tick-tick have earned him a place in thousands of parlors.

The next time you go to town call at your dealer's and ask to see Big Ben. If your dealer hasn't him, send a money order for it to the maker—Waltham, La Salle, Illinois—and he'll come to you prepaid.

Styles Adapted to Practical Women

Farm and Dairy patterns shown in these columns are especially prepared for Farm and Dairy Women. They can be relied upon to fit, and include the most modern features of the paper patterns. When sending Farm and Dairy your order please be careful to state best or worst measure for age for children and the number of patterns desired. Price of all patterns is Our Folks, on each Address all orders to Pattern Dept., Farm and Dairy, Peterboro, Ont.

THE spring sewing will now be in and the pand front, which is cut full swing in many homes, all over the bust and thus affords freedom though the weather so far has protection for the dress. This spring was not been such as to inspire one with is easy to make and should give satisfaction. The feeling that lighter clothing is yet necessary. The weather were fine and warm, however, we would all be anxious to begin our spring house cleaning, and the spring sewing would in all probability have to be set aside for a time. This kind of weather is just right for getting the sewing completed, so after all "every cloud has a silver lining."

One of the most noticeable fashion features at present is the popularity of the separate skirt. For several seasons the separate skirt has been considered as adapted mainly for serviceable wear, but it has gradually wended its way back to popularity, until this season we may have them as fussy and elaborate as we please. Of course all who have been following the fashions know that the tunic skirt holds the place of honor, but there are various other styles almost equally attractive.

In design 9880 we show a unique style of separate skirt. It is cut to simulate a tunic and is most graceful in its shaping and outline. It may be finished with closed or slashed seam at the front. Five sizes: 22, 24, 26, 28 and 30 inches.

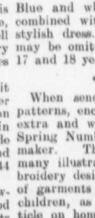
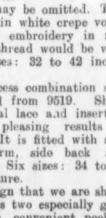
A simple, becoming and popular blouse in kimono style is shown here with in No. 9883. It is cut with body and sleeve in one and closed in surplice style.

The chemise may be omitted. This model developed in white crepe voile, with a finish of embroidery in navy style. Six sizes: 32 to 42 inches bust measure.

A dainty princess combination suit may be designed from 9519. Short nainsook with val lace and insertion would produce pleasing results in this garment. It is fitted with side front, under arm, side back and shoulder seams. Six sizes: 34 to 44 inches bust measure.

The apron design that we are showing this week has two especially good points: the deep, convenient pockets

When sending in your order patterns, enclose two cents in extra and we will forward you Spring Number of the Home Ecologist, a catalog of the latest broderie designs, a great many of garments for misses, women, children, as well as a two-page on home dressmaking hints.



'Getting the La Blatchford's C



As good as New Milk at 100 pounds make 100 gallons of Milk Substitute. Send for pamphlet, "How to Buy Cheaply and Successfully With Your Dollars at C. A. GILLESPIE, Peterboro, Ont."

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Buttermaker W work in city creamery of good habits and energetic commerce. May let. No need apply. Apply B. FARM AND DAIRY, PETERBORO, ONT.

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is making money for thousands of Butter Make

It is always the same in quality dissolves evenly gives a delicious flavor — and makes the butter keep

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"Getting the Last Drop"
Blatchford's Calf Meal
As good as New Milk at half the Cost



50 pounds make 100 gallons of Perfect Milk Substitute.
Send for pamphlet, "How to Raise Calves Cheaply and Successfully Without Milk."

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Buttermaker Wanted
To work in city creamery. Must be of good habits and energetic. Duties of a cookhouse may let. No Englishman need apply. Apply Box 43.
FARM AND DAIRY, PETERBORO ONT

WE Make Butter WE Furnish Cans WE Want CREAM WE Pay Express WE Pay Every Two Weeks
Write us
BELLEVILLE CREAMERY, LTD.
Belleville, Ontario

WINDSOR DAIRY SALT

is making money for thousands of Butter Makers

It is always the same in quality, dissolves evenly, gives a delicious flavor — and makes the butter keep.

USED BY ALL PRIZE WINNERS.

The Makers' Corner

Butter and Cheese Makers are invited to send contributions to this department to ask questions on matters relating to the making and to suggest subjects for discussion.

Cement Why Tank or Steel

We intend installing a new why tank at our cheese factory this spring. Would a cement tank be satisfactory? Our tank cannot exceed two feet in height, but built on a slope of ground so that the why will drain away without pumping. Owing to the high cost of lumber we thought it would be cheaper to use cement. P. K. Hastings Co., Ont.
I would say that we have not found the cement tanks satisfactory for why. I would advise a steel tank, believing it to be the most satisfactory.—G. G. Pablow.

Mr. Wilson on Cream Grading

The following is an extract from a letter received by Mr. George H. Barr, Chief of the Dairy Division, from W. A. Wilson, Dairy Commissioner for Saskatchewan:
"Concerning the value of cream grading from an educational standpoint as compared with the old time competitor of public meetings, I may say that there is no comparison to what I fear. The fallacy of the old system has become apparent to the average farmer. He points to the speaker with more or less scorn, because he preaches the value of quality and respectfully declines to recognize quality in dollars and cents. If the value of butter is based upon quality, which of course, we all admit, then its value is also dependent on quality of cream. This being admitted, why is it that quality is not recognized when paying the farmers, who under present cream gathering system, practically fix the flavor in the finished product?"

"I believe our farmers as a general rule recognize the truth of this and are prepared to cooperate with the manufacturer, providing the manufacturer will reward him according to the quality of the produce he supplies. The indifferent patron will also be rewarded according to his work. The natural inclination may be to withdraw his support, but this is tantamount to a public acknowledgment that his cream was inferior and in most cases one is not disposed to leave oneself open to such publicity. Our experience has been that he silently determines to obtain the highest grade and price and usually succeeds.

"The difference in price for the product creates interest in the industry. Once this is done, the improvement in the finished product will be in direct proportion to the standard fixed and maintained by the creamery manager, and this standard is equally as important as grading. If the standard is too low, grading is really of no value.

"A creamery may lose business at the start, but the better price obtained for the better quality of butter will enable the manufacturer to pay a price that will easily induce farmers to supply cream.

"I might relate one experience of several which I had last season in the matter of marketing butter. I sold on sample some 30,000 pounds of fresh cream bricks to be shipped at intervals during the months of June, July and August, 1913 to a Winnipeg firm, on the basis of 26½¢ f.o.b. shipping point. At the time the sample was forwarded and the sale made, the same firm was buying Manitoba creamery butter at 23¢ f.o.b. Winnipeg. They were willing to pay 3½¢ a pound more, plus the freight and inland charges, in order to get the quality. The grading of cream was very largely responsible for the quality of the butter I had to offer."

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Whether you have but one cow, or if you have fifty cows we have a High Grade Cream Separator, suitable for your requirements, at a price you can afford to pay.
We send you a machine, on FREE TRIAL, anywhere in Ontario or Eastern Canada, and prepay the freight. Thoroughly Guaranteed. LOW PRICES EASY PAYMENTS. You take no Risk whatever, for you settle for it only if satisfied. Send for Circular "D" to-day, giving particulars of our Free Trial Offer, Prices, etc. Agents wanted
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Buttermaker Wanted
For Bancroft Butter Factory. Apply, stating experience and salary expected, to
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CREAM WANTED
Toronto consumes daily the milk and cream from over 15,000 cows and the butter from over 70,000 cows. We need your cream.
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For best results, ship your live Poultry to us also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs. Egg cases and poultry crates supplied. Prompt Returns.
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THREE CENTS A WORD, CASH WITH ORDER
TRY OUR BUTTER WRAPPERS — McMillan Printing Co., London.

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AMERICAN CREAM SEPARATOR
A SOLID PROPOSITION to send fully warranted, a new-built model, easy running, 15-gallon separating for \$18.95. Same makes or cold milk; makes heavy or light cream.
* Absolutely an approval.
The bowl is a sanitary marvel, and well guaranteed, as illustrated on the picture, which illustrates the very latest and most improved machine made properly from
TORONTO, ONT.: ASK OF JOHN N. B. WILSON, your dealer in large or small cities for full particulars. Free catalog. Address: AMERICAN SEPARATOR CO., BAINBRIDGE, N. Y.

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OUR I H C LINE GRAIN AND HAY MACHINES
Reapers, Mowers, Headers, Binders, Rakes, Stackers, Hay Loaders, Corn MACHINES, Planters, Pickers, Blowers, Cultivators, Emulge Cutters, Shellers, Shredders, TILLAGE
Combination, Peg and Spring-Tooth, and Disk Harrows, Cultivators
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Oil and Gas Engines, Oil Tractors, Manure Spreaders, Cream Separators, Farm Wagons, Horse Trucks, Trimmers, Grain Drills, Feed Grinders, Knife Grinders, Binder Twines
PIGS and calves thrive and grow fat when fed with warm, skim milk.
You cannot get warm skim milk to feed them unless there is a cream separator on your farm. There is money enough in this one advantage to pay for a cream separator the first year. This is specially true if you buy a close skimming, durable International Harvester cream separator—Lily, Bluebell or Dairymaid.
These separators have all the points which make cream separators good. They have the balanced bowl, the self-adjusting neck bearing, the tool-steel spindles, the bronze bushings, the spiral gears, the low supply can, the high skim milk spout, and the open, sanitary base, without which no separator can be satisfactory.
Some dealer near you handles I H C separators. If you do not know, write us and we will tell you who he is. We will also send you our cream separator book which tells you why it pays so well to buy an I H C separator.
International Harvester Company of Canada, Ltd
At Hamilton, Ont.; London, Ont.; Montreal, P. Q.; Ottawa, Ont.; St. John, N. B.; Quebec, P. Q.

MARKET REVIEW AND FORECAST

Toronto, Monday, April 15.—The tariff, as announced in the House...

business farmer in the tariff changes... The failure of the steel companies...

A Jersey Bull For Sale

from Sunnyside Dairy Farm, out of a cowy producing prize-winning dam...

S. R. COPLAND HARRISTON, ONT.

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Burnside Ayrshires Winners in the show ring and dairy trials...

Burnbrae Ayrshires Now offer for sale five Bull Calves...

JOS. HUDSON & SON, LYN, ONT.

Thamesview Ayrshires

I have for sale two Registered Bull Calves, six months old, from high producers...

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ANYONE WISHING HOLSTEINS OF THE BEST QUALITY THE BRANT DISTRICT is the place to buy...

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LYNDEN HERD

Bulls for sale, fit for service, with good bucking. One sired by a son of Evergreen...

Anything in Holstein Females From 1 week to 8 yrs. old, 17 head to choose...

SPECIAL OFFER: 30 Heifers, 10 to 18 mos. Old. Large and growthy and well bred...

W.M. HIGDON - INKERMAN, ONT.

RIVERSIDE SIR AEGIE ECHO

No. 11649, whose dam, Teitilla Echo II, Kol, has R.O.M. 322.5 the milk, 21.52...

P. B. Nelson, R.R. No. 1, Campbellford, Ont.

MAPLE LANE FARM

Other Young Holstein-Friesian Bulls whose sire has over 40 cows in his first three generations average 31, including 27 from 30.44 to 44.18...

Prospects for the wheat crop are still last week it was widespread...

COARSE GRAINS Prices have varied but little. There is a local point...

MILL FEEDS There is a good steady demand for bran at the higher quotations...

HAY AND STRAW The supply of hay is much in excess of local demand...

EGGS AND POULTRY A strong Easter demand has held egg quotations firm...

DAIRY PRODUCE The lack of stock for butter from the West...

LIVE STOCK The local cattle market has had a healthier tone during the past week...

Percheron, Clydesdale and Shire Stallions, Mares and Fillies

We have a better bunch of stallions and mares in our barns at present than ever before...

J. E. ARNOLD, Grenville, Que.

MANOR FARM

Write for beautifully illustrated catalogue describing some of the cattle, also giving a short extended pedigree of each one...

MANOR FARM - BEDFORD PARK, ONT.

FAIRVIEW FARMS HERD

is the only place on earth that you can secure a young bull that is a brother to the sire of the cow holding the championship of Canada...

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Offers a large number of Young Cows and Heifers; also 5 Yearling Bulls, most of them sired by Woodland Schelling Sarcastic-let 2yr-old bulls...

WM. SLAGHT - BEALTON, ONT.

THE STEVENS HERD HOLSTEINS

We have furnished more of the foundation, a male for the greatest herd of Canada and the U.S. than any herd in America...

HENRY STEVENS & SON - Brookside Stock Farm, LACONA, N.Y.

ELGIN DISTRICT

HOLSTEIN-FRIESIAN BREEDERS Can supply your wants in cattle of the show-ring type...

GEO. A. LAIDLAW - AYLMER, ONT.

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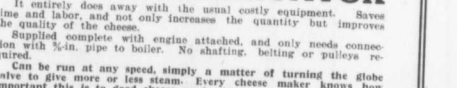
Registered Holstein Bull Cal A sure prize-winner. When one week old weighed 150 lbs. Dam, large, heavy milked. Sire, a Korndyke to the secretary.

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The Holland of North America, is the place to buy Holsteins of show-ring type...

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'LEAL' MILK AGITATOR

It entirely does away with the usual costly equipment. Saves time and labor, and not only increases the quantity but improves the quality of the cheese.

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Herd Size

Prince Hengerveld of the Pontiacs
Son of King of the PontiacsFew Bull Calves from good record dams.
Also Females.**HAMILTON FARMS**
ST. CATHARINES - ONTARIO**Lakeview Holsteins**Senior herd bull, COUNT HENG-
VELD FAYNE DE KOL, a son of
PIETRIE's HENGVELD, RECORD BULL
DE KOL and GAGE FAYNE FND.
Junior bull, D'UPONCALD COLAN-
TIEA SIR MONA, a son of COLANTIEA
JOHANNA LAD and MONA PAULINE
DE KOL.
Write for further information to
E. F. OSLER, - BRONTE, Ont.**WALLISTON PARK HERD HOLSTEINS**

Herd headed by "Fairview Mercedes Korndyke," son of the world famous "Pontiac Korndyke," and whose dam with a 4-yr-old record of 21 lbs., and 12 sisters average butter in 7 days 25.43 lbs. His sister, Pontiac Lady Korndyke, has record of 30.02 lbs. butter in 7 days, 156.92 lbs. in 30 days, world's record when made. We are offering 2 some of this splendid sire.

No. 1—Mercedes De Kol Korndyke, born March 12th, 1913. Mostly white. Dam, Euphemia De Kol Record as a junior 2-yr-old of 45.14 lbs. milk, 19.32 lbs. butter 7 days.

No. 2—Born Feb. 25, 1914. Nicely marked. Dam, Winnie Homestead dam. Record at 4 yrs. of 501.4 lbs. milk, 22.7 lbs. butter 7 days.
Before buying write us—we better, come!

J. H. TAYLOR & SON, R.R. No. 3, SCOTLAND

feeders, \$675 to \$735; stockers, \$525 to \$735; canners and cutters, \$530 to \$450.

MONTREAL, HOG MARKET.—
Montreal, Saturday, April 11.—The tone of the market for live hogs this week was firm, owing to the fact that supplies were again rather small, for which the demand was keen from both packers and butchers, and, in consequence, prices were fully maintained, with sales of Ontario select stock at \$10.85 to \$10 and paid for some small lots, while Manitoba sold at \$9.75 a cwt., weighed off cars, but the prospects are that prices will be easier next week, as advices have been received of a number of cars on the way to this market from the Northwest for dressed hogs, for which the demand continues fairly good on account of the spring trade. Another lot of stock at \$13.50 to \$13.75.MONTREAL BUTTER AND CHEESE.
Montreal, Saturday, April 11.—The first arrivals of new cheese from the factories in Ontario reached Montreal this week, and, as there is scarcely a cheese on the market, they met with a ready sale for home trade purposes, and prices ranging from 15c to 16c were quoted for colored cheese. This, of course, does not give any indication of the price that the demand for export will take the offerings these navigation opens next month, but there is no doubt that fairly high prices will prevail until new cheese is offered in large quantities. The total receipts for the week did not amount to more than 100 or 200 boxes, but it marks the beginning of the new season, and we can look for rapidly increasing receipts from now on.

The market for butter is slowly but steadily declining on the face of the increasing receipts of new butter, the best of which can be bought to-day at 25c a pound. There is still a small quantity of last season's stock in cold storage, and this is offering at 25c to 26c, according to quality. Some dealers are looking for still lower prices next week, when larger receipts are expected.

NEW RECORD AT AVONDALE.
Editor, Farm and Dairy.—We have a new Champion in Lady Waldorf Pietje, a daughter of our herd bull, Prince Hengerveld, sire of our Lady Waldorf. This great young heifer, which has been a prize-winner wherever shown, has just made at two years one month, of great record of 25.26 in seven days and 174½ lb. in 30 days, breaking all Canadian records and standing second in the 30 days test for all America. Her dam, here, has just made at 2½ years, 20½ lbs. of butter in seven days and 112 lbs. in 30 days, at the same time entering in 30 days of over 100 lbs. of milk in one day. Another junior two-year-old daughter of Prince Hengerveld Pietje has just finished up a record of 23½ lbs. in seven days.

We have also made a grand record with Countess Segta at 37.70, being the second highest record of King Segta's daughters. She was so poor we did not expect to test her, but in the ordinary milking she came on so well that we put her through seven days. A. C. Hardy, Brockville, Ont.

HARTLEY DISPERSION SALE

The sale of pure-bred Holstein cattle by W. A. Hartley at Broadview Farm, Woodstock, Ont., on March 26th brought some very satisfactory prices. The highest price realized was for Lady Pierette, a yearling, sold for \$225 to F. Shelton, Woodstock. Some of the other good Woodstock sales are as follows: Lady Waldorf De Kol Posch, \$190, E. A. Smith, St. Thomas; Schulling Posch Hillwood, \$180, George Denby, Hartford; Etta Bell Posch, the 2nd, \$150, Douglas Hines, Baggot; Etta Bell 4th, \$145, Elizabeth Denby, Hartford; Beatrice Allen, \$145, H. H. Woodges, Downsview; Tempest Clothilde De Plant, Hartford; Beatrice Thomas, Dusky Kol, \$145, E. A. Smith, St. Thomas; Dusky Kol, \$145, E. A. Smith, St. Thomas; Dusky Schulling 3rd, \$135, Elsworth Plant, Hartford; Lady De Kol Posch, \$135, Elsworth Plant, Hartford.

CHAMPION BULL CALVESBy King Pontiac Artis Canada
Can you get any better blood than this?

1—Two months old, dam Countess Segta, 37.70, the second highest daughter of the great King Segta. Price, \$100.

2—One year old, dam Lady Waldorf De Kol, just made 28½ lbs at 12 years and 15c in keeping.

3—Two months old, from the new Canadian Champion heifer, Lady Waldorf's daughter, at 2 years one month 25.26 lbs., 104 lbs 30 days.

Prices are about half of what you would pay in the United States.
Apply A. C. HARDY
AVONDALE FARM, BROCKVILLE, ONT.**FOR QUICK SALE**Two Pure-Bred Holstein-Friesian Bull Calves, nicely marked, from seal bred dams and heavy milkers. Sired by King Davis Walker Hengerveld, and whose best daughter, Fairview Queen Korndyke, gave 108 lbs. in one day. Price only \$2.50.
JAS. MOORE, R. R. 1, ALMONT, RAMSAY**INVESTIGATORS**

MR. BREEDER: Possibly in your own herd you have descendants, or relatives of some of the world's great cow producers. Let us investigate for you. An extended pedigree will put you right. Our prices are reasonable. Write now for price list on:

Sale catalogues. Extended pedigrees. Holstein literature. Blank pedigree forms.

Canadian Holstein Pedigree Co., BEDFORD PARK, ONT.

"READY-MADE" BUILDINGS

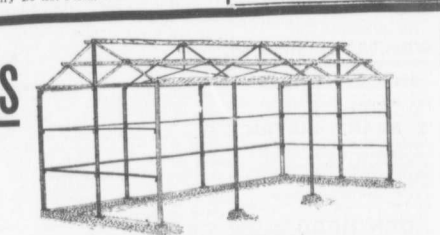
"Ready-Made" buildings have solved the problem. No more do you have to leave the implements out in the storms.

You can now get a building all ready cut to your measure and delivered at your station. You haul it home and with the help of the hired man you can set it up in a couple of days.

All the timber is cut and marked. You nail or bolt it in place. Then you nail on the covering—which is cut to size and marked.

You have no larger carpenter bills—we do most of the work in our factory. All you have to do is to set the building up.

We make buildings for all purposes. Write today for our free booklet. Fill out the coupon.



Strong steel frame work of "Ready-Mades" will last forever and always keep the building true and straight, never allowing it to sag at the roof or cave in at the sides and ends. It will make the building stand up under any kind of a roof load and will resist all wind pressure. All joints are strongly riveted and bolted, and will not come apart.

An example of one of our smaller "Ready-Mades." Note the fine appearance. The corrugated iron being cut and fitted especially for this building, gives no chance for mistakes or botchy jobs in erection. The entire front can be opened as the doors slide past each other. Plenty of light is furnished by the Acorn roof and side windows. This class of building is lightning proof, fire proof, rust proof and practically wearout proof.

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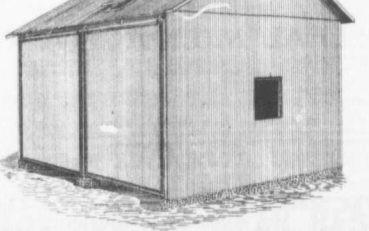
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PRESTON - ONTARIO

Please send me your free booklet, "Ready-Made" Buildings.

NAME

ADDRESS

Farm and Dairy



The Edward Dreier Service

MEDICINE HAY
REDCLIFF, April 6.—
own a large farm near
near of Northern Minn.
year. It produced 4½
of No. 1 corn. This y
yured a quantity of se
be cut and giv
in May. Every farmer
responsible to plant as
be cut and seed for
operating hot winds
local and injure th
not affect the corn. It
miles from the Montann
title 50.

ALBANY
SHELBURNE, April 6.—
has been unsettled of
snowing and freezing,
snowing, which leaves
very bad condition. L
lower in price. The
spring wheat, 80c to
\$3.10; corn, 80c to 82c;
\$10.80; butter, 25c;
19c; potatoes, bag, 75c
this potato, Apr. 2.

MANITOWISH
SPRINGFIELD—
DUGAN—Farmers
have been well attend
rude are in splendid
condition some time
it took like some
through the winter in
to having lots of egg
of course are down. D
demand. Horses are g
a little after the snow
all the talk now—T. F.
ALBANY

OUR FARMERS' CLUB
Correspondence invited

PRINCE EDWARD ISLAND
KINGS CO., P. E. I.

MONTAIGU, March 18—We are having fine weather. The snow is nearly gone. Roads are in bad shape. Frost at night is keeping the river ice in good shape yet for travelling. Our egg circle is going ahead now. Eggs are increasing in number, and the price is going down, 30 a doz. Butter is very scarce; price, 75 to 80c. Most all the hauling is done now, and people are getting this year's wood cut—G. A.

QUEBEC.

CHATEAUGUAY CO., QUE.

MARCH 31—On Monday evening, Nov. 20th, the neighbors in the vicinity of Tallochporum gathered at the home of Mr. and Mrs. S. Rutherford in a friendly surprise party. After the company present had enjoyed to the full the good things the ladies had prepared, while the Virola played a Scotch air, Mr. H. Craig was called upon to explain the reason of the gathering. Mr. Craig intimated that the neighbors wished to express their appreciation of the helping hand that Mr. and Mrs. Rutherford had always extended while in their midst, by presenting the couple with a mahogany mantle clock. After the crowd sang heartily "For He's a Jolly Good Fellow," Mr. Rutherford made a fitting reply. A real Old Country dance was entered until the wee hours of the morning. Mr. Rutherford has sold his farm to Mr. Kerr, of Fertile Creek, and will reside in Ormston—H. H. O.

ONTARIO

LEEDS CO., ONT.

TOLEDO, April 6—Sugar-making is the order of the day, although as yet there has been no great run, but we anticipate better sugar weather about the time of the full moon of April. The dairies and cheese factories have been receiving a thorough overhauling after their winter work, and are now ready for operations. There is great demand for young calves, farmers looking forward to receiving good prices for them next fall. Cows range in price from \$50 to \$75. No demand for hogs. Hay is \$15 to \$16; pork, \$5; butter, 30c; eggs, 30c. The northwest fever is still an epidemic, quite a number of calves already gone this spring to seek their fortune in the far west; others are going and the problem that the farmers are up against (to use a slang phrase) is, how shall we farm without help? If conditions do not improve there must assuredly be in the future abandoned farms for want of help to till them—S.

HASTINGS CO., ONT.

CHAPMAN, April 6—A number of our farmers are engaged in making syrup, but the supply of sap so far has been very small, and the prospects are not encouraging. The weather has been cold and stormy, and the heavy frosts have made farmers uneasy about their meadows and fall grain. A much larger number of calves are being raised this year than in the past—H. S. T.

DIFFERIN CO., ONT.

SHELburne, April 3—The weather has been unsettled of late, as it has been thawing and freezing, and raining and snowing, which leaves the roads in a very bad condition. Live stock is a little lower in price: Select hogs, \$8.75; spring wheat, 80c to 90c; barley, 50c to 55c; peas, 80c to 90c; oats, 30c to 35c; hay, 15c to 18c; butter, 25c to 30c; eggs, 30c to 35c; potatoes, bag, 75c; dressed hogs, \$9. A number of farms have changed hands this spring—W. Z.

MANITOBA.

SPRINGFIELD CO., MAN.

DEGALL—Farmers' Institute meetings have been well attended all winter. The roads are in splendid shape. The cows it look like spring, cattle have come through the winter in good shape. Hens producing lots of eggs, and the price of course are down. Dairy cows in good demand. Horses are going up in price a little after the slump. Good roads is all the talk now—T. F. P.

ALBERTA

MEDICINE HAT DIST., ALTA.

REDCLIFF, April 13—Both Bros. who own a large farm near here, planted six acres of Northern Minnesota corn last year. It produced 4 bushels to the acre of No. 1 corn. This year they have secured a quantity of seed from Minnesota, and will plant fifty acres in corn early in May. Every farmer in the district is preparing to plant as much acreage as possible, and they say that they expect occasional hot winds that visit that district, and injure the other crops, do not affect the corn. This district is 20 miles from the Montana line, and in latitude 56.

International Stock Food
You certainly do need it during Calving Time.

¶ You need INTERNATIONAL STOCK FOOD for the cows and you need it for the calves.

It will keep both cows and calves in good flesh and keep their digestion sound. It tones up the system, invigorates and fortifies the blood, etc., and removes all taint of disease from the milk. It will be very much in bringing cows safely through calving.

INTERNATIONAL STOCK FOOD is good for all kinds of stock. We guarantee that it will make your calves, pigs, shoats, and lambs grow rapidly and keep them healthy and thriving all the time.

Tell us how many head of stock you own and we will send you, free, a copy of our \$2.00 Stock Book. You need it on the farm, try Food and full line of Poultry Remedies are for sale by dealers everywhere. If your dealer cannot supply you, write us direct. Every preparation is sold on a spot cash guarantee basis to give satisfactory results or your money refunded.

International Stock Food Co., Limited, TORONTO



FORTY YEARS REPUTATION

is something that is incalculable value.

It is plain that we have to be just as careful of the quality of our goods now, to keep up that reputation, as we have been in building it.

And that is your surest guarantee of the uniform excellence of—

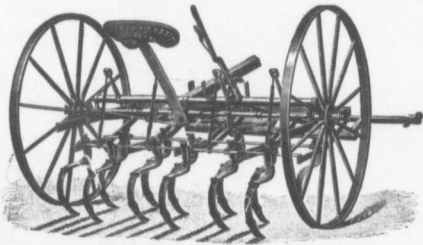
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We have an interesting book about fertilizers. It's yours for the asking. Gunns Limited, West Toronto

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CHAMPION
SPRING-TOOTH
CULTIVATOR

Cultivate your soil frequently and regularly. The increase in quantity and quality of yield makes it well worth while. More than pays the cost.

When you cultivate with this CHAMPION Spring-Tooth Cultivator, you not only rid your soil of all weeds and trash, but you also leave it in proper shape to store up soil-moisture for the growing crops.



"CHAMPION" Superiority
Shown at Every Point

You have only to examine the CHAMPION'S design and construction to realize that here is a Cultivator that must do good work. Its frame is of heavy steel—securely reinforced. Tooth-section cross-bars are RIVETTED, instead of bolted. They will never come apart.

Either 2" or 7" points may be used on the teeth. The 2" are reversible—good for double-work. Tooth-sections are independent of each other, with a separate pressure spring to each section. One lever controls all the sections—enabling the teeth to thoroughly cultivate the most uneven soil.

Our Complete Catalog

illustrates and fully describes the "Champion" in 10-12-13-16 tooth sizes—with or without grain and grass-seed boxes. See our agent or write for a copy to our nearest branch.

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Limited
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Cockshutt Plow Co.
Limited
BRANTFORD, Ont.



A Concrete Root Cellar

is one of the farmer's greatest money makers. It makes money by keeping produce in good condition until it can be taken to market, or until better prices can be obtained. It maintains a cool, even temperature that

Keeps Produce Perfect

A concrete root cellar is always dry, clean and sanitary. It is proof against heat, cold, water, fire and rats. Although the greater part of it is underground, it cannot crumble or rot away. It is permanent and needs no repairs.

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