

VOL. XXIX.

NUMBER 12.

# RURALHOME

PETERBORO, ONT.

MARCH 24, V 1910.



PLAN TO PUT THE ORCHARD INTO PROPER SHAPE THIS SPRING

In the cherry and plum orchard illustrated, owned by Wm. W. Whitton, Northumberland Co., Ont., pumpkins are grown, and are used as a fall feed for dairy cows. Inter-cropping the young orchard is advisable, providing that a crop is grown that can be hoed and cultivated. The illustration shows a strip of grass along the tree rows. This is not good practice but cannot do much harm there as the roots extend beyond. To save all the moisture for the trees, no grass or grain should be in the orchard.

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE

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OF

# **Never Out Of Balance**

# The Self-Balancing Bowl

in the SIMPLEX Separator overcomes the greatest weakness previously met with in cream separators, namely: the liability of the bowl to get out of balance. If a bowl be ever so slightly out of balance it will not separate cleanly. This has been proved again and again by actual test. Remember that when you lose part of the cream you are losing money. Nor is this the only loss when a bowl is out of balance. A great deal of extra wear and tear is thrown upon it, thus greatly shortening its life, as well as lessening its usefulness.



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### CANNOT GET OUT OF BALANCE

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

### The Business Farmer

A. Hector Cutten, Colchester Co., N.S.
Few things attract the eye of a
traveller quicker or make a more lasting impression than a well cultivated
farm. As one passes the convenient
and pleasantly located farm house, the
convenient of the collision of the collision of the collision
and pleasantly located farm house, the
unicely plowed facility of the collision
traight, even and true; the root
fields so well cultivated that weeds
have met with extermination, he admires them. He also takes stock of
the well fed, well cared for flocks and
herds in the pastures, the good,
herds in the pastures, the good,
neat, substantial fences, or, as in
many districts now, no fences at all,
but grain or hay growing to the wheel
track, and maturally says. "This is
good farming; this is improving the
ter." A. Hector Cutten, Colchester Co., N.S.

THE OTHER PLACE.

As the traveller passes along he comes to another residence. The house shows signs of neglect; it has never seen paint—if it has it is past the memory of any who know it; the loose boards; the roof is barns have loose boards; the roof is leaky; if there is a window in the stable it has an old salt bag stuck in it for want of glass; the gates are off the hinges, or hanging by one; the fences are lined with briers, thistics and weeds of all kinds; the potatoes are choked with weeds and the potato bugs are in their glory the surveit it be highway in front is becaused in the fightway in front is because of the property of the cause and boards and barros-survey the cause and boards and barros-surveit and boards and barros-surveit and barrosbarns have lined with apple-tree branches, old boots and barrels, empty tin cans and long-nosed hogs. The traveller does not call it anything. He does not half to see that the call it. He merely weaders who lives—pardon—stays there, and drives on, And mistake not, the traveller seldom passes through a farming district without comment. He criticises freely, he condemns the latter picture, and is just as ready to bestow praise on the former.

In a city every merchant, tradesman or professional man hangs out a sign to tell who he is, or the nature of his Lusiness. In the country it is different. There are no flaring sign-teards over the farm gateway to an-nounce that farming is carried on there . It is not necessary. The farm there. It is not necessary. The farm and everything thereon proclaims to the world the nature of the business conjucted there. But there are a lot of so-called farmers who need a sign-board. Webster's definition of "farm-ing" is, "to cultivate" and of "cul-tivate," "to improve."

A GIGANTIC ANNUAL WASTE

Are we "cultivating" and "improv-g" as we should? "Careful inquiry and observation extending over the entire state forces the inevitable con-clusion that as much nutriment in the form of fodder is wasted every year as actually finds its way into the digestive systems of the farm animals of the state." Such is the report of an experimental farm director of one of the Western states made some few years ago.

Let us pause for a moment and con-Let us pause for a moment and con-sider the significance of this state-ment, if true. It is easy for the un-thinking farmer to dispose of the statement by saying it is not true, especially so as regards Nova Scotia-But if we were to count in dollars and conts the mismanagement in dairy, beef, sheep or in mixed farming, and the unproductive acres, it would

beef, sheep or in mixed farming, and the unproductive acros, it would amase us what an array of figures would be footed up against us.

There seems to be enough advice affect from good and reliable sources, but we are slow about accepting new methods that take us out of the old ruts that have proved good in their day, but are entirely inadequate to the needs of the modern tusiness man—did that cause a joit? The farmer is not generally known as a business man, and no doubt to some the term

seems far-fetched. We say a farmer is a business man when he accepts and adopts new, approved plans and meth-ods that will pay, along with good business methods that have already business methods that have already been in vogue for many years on the farm. He buys as cheap as he can and sells to as good advantage as pos-sible. His word is as good as a bond, and his advice and influence is re-spected in the whole community. Such a man is a good business man (farmer). The farmer is to blame for this distinction between men engaged in mercantile pursuits and those engaged in tilling the soil. The difference is only imaginary and the only way to only imaginary and the only way to remedy the imagination is by not only not "looking backward," but up ward and onward, in earning the title and wearing it with a professional pride.

UNCONSCIOUS DISTINCTION. We listened a few weeks ago to an eloquent sermon by an able and devout divine. In one part of his discourse he remarked: "Whether the man be a business man, a farmer or, etc., etc."
It was said unconsciously and unintentionally and in all probability passed unnoticed by the entire congregation,

unnoticed by the entire congregation, and I believe that one-quarter of the short course students attending the agricultural college at the time were worshipping there that evening. Many farmers spend more money every year for cigars, tobacco and whiskey than they do for books, farm papers and periodicals. Then who is to blame if the farmer is not generally known as a good business man? A indicious investment in this latter line ly known as a good business man? A judicious investment in this latter line will bring in far greater returns than one may at first expect. No man can make a success at anything nowadays unless he invests in printers' ink, and the amount of work accomplished in the amount of work accomplished in memerits spent in papers and books devoted to farm work.

PAY THE LAND ITS DUE.

There are lots of farmers who do not pay the land for the crop it gives them year after year. They take all they can, but never put back a cent's worth in the way of fertilizer. Then they wonder why the land doesn't grow as good crops as formerly. The great wonder is that the land does as well that has labored so long for not even board and clothes. You may steal \$10 from the land in the spring, but it will cost you \$20 by the fall, and the sooner we are honest and pay what we owe in this line, as in any other, the better. There are lots of farmers who do not

what we owe in this line, as in any other, the better.

Those who are lukewarm in their own interests will find it far more congenial if they would take off their congenial if they would take off their coats occasionally and help sustain the institute work, the farmers' clubs, the exhibitions or any other means by which the farmer may gain knowl-edge without the slow, tedious, some-times expensive "actual experience." Every business farmer should be pro-gressive and alive to the demand of the times; by so doing he can bring up the standard of the farmer, and Le able to wear with distinction and pride the title of "a good business man."

Another short course was held in Waterloo Co., on March 7th, 8th and 9th, at Elmira. The program of this course was practically the same as at Galt and included Seed Judging Classea under Prof. Zavitz; Cattle and Swine Judging under Prof. G. E. Galt and included Seed Judging Classes under Prof. Zavitz; Cattle and Swine Judging under Prof. G. E. Day; Horse Judging, under Dr. H. G. Reed. The evening meetings were addressed by Prof. Harcourt, Prof. Zavitz and Prof. Day. The meetings were all well attended, the average were all well attended, the average being 130, with about 450 at the pub-lic meeting in the evening of the 9th At this meeting in the evening of the 9th. At this meeting the speakers were Prof. J. B. Reynolds, Mr. G. A. Putnam, Dr. H. G. Reed and Mr. Geo. Klinck, Reeve of Elmira.—F.C.H.

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Vol. XXIX.

FOR WEEK ENDING MARCH 24, 1910.

No. 12

### METHODS THAT BROUGHT SUCCESS ON AN ONTARIO FARM

The Practical Experience of a Prize Winning Farmer—Farm Practice, Crops, Cultivation, Live Stock—

ORE thorough cultivation, more clover, more drainage; these three things offer a solution to that problem about which many Ontario farmers are vitally concerned, that of how to increase the yields from a given area.

These factors have become axioms with Mr. T. Baker, whose farm won second prize in the Special Good Farms Competition conducted by Farm and Dairy last year for Durham Co., Ont. Thorough application of these factors has maintained Mr. Baker's farm in a high state of productiveness and has kept it free from weeds to such an extent that Mr. Baker enjoys a market for practically all the

Mr. T. Baker grain he produces as seed, farmers coming for miles to obtain seed from his farm.

The township of Darlington, in which Mr. Baker resides, is not a dairy section. Although the township is a large one, it has within its bounds but one cheese factory and until it installed a butter plant some years ago, it was perennially on the verge of failure. Mixed farming with beef cattle and Clydesdale horses as the main stock, is common to that district. Mr. Baker is no exception in this matter save that his stock ranks with the best and his farm practice is much superior to the common run. His farm will stand comparison with the Lest farms of its class in the province. Farming as practised by Mr. Baker is much diversified. All crops and farm operations are so planned that everything is kept going steadily and slack sersons are unknown.

### LESS GRAIN, MORE ROOTS AND CLOVER

Commenting upon crops to an editor of Farm and Dairy, who visited at his place recently, Mr. Baker said: "There is too much land devoted to grain crops. Our farmers often could grow as much grain if they sowed it on fewer acres and devoted a greater area to clover, roots and similar crops. They would then be less crowded at harvest time and there would be fewer weeds. Look at it from a sensible view point. Is it not a most foolish thing to do to sow grain if one knows that he is going to get rubbish, perchance sow thistle? Had he better not take a year and clean the eld? Greater returns would be gotten from two crops after such attention had been given than from three crops taken along with the weeds and in the former case, the land would be in much better condition."

### FOUR YEAR ROTATION

In so far as it is practical, Mr. Baker follows a four year rotation. The clover sod is followed by a grain crop after which the land is manured and devoted to roots and rape; then comes another orain crop seeded down "This rotation suits me test," said Mr. Baker. "With it we always seed down on land that has recently been manured and is therefore in a high state of fertility. In con-

sequence, we invariably secure an excellent stand of clover. I consider clover to be one of the prime products grown on the farm. I grow more of it than of any other crop. I always preach clover and never fail to put what I preach about clover into practice. It is a great mistake not to sow clover, no matter what its price. We cannot afford to be without it. Good clover seed is the farmer's best investment. I quit growing timothy 35 years ago. An English fellow who lived near and who discussed my methods with a neighbor some years ago, said: 'that man Baker will soon run his farm out by growing clover and other crops and not seeding to timothy, in consequence, not giving the land rest.' That fellow was far from the mark as results show.

"It cannot be said that I have any main crop. About 18 acres are devoted to fall wheat, 20 to

the first of July, it is sown in rows with the grain drill, the seed being distributed from the grass seed attachment. Ten or 15 acres of rape a year such as we have helps to clean the land and it furnishes the best preparation for barley. Our rape land always gives us good straw and a fine sample of barley and is the best place on which to seed down. Rape is the best and cheapest feed I know of."

Since Mr. Baker sells most of his grain for seed, he must buy grain to replace it. This he purchases in the fall when it is cheap. He authorizes his miller to buy and chap it and then hauls it home ready for the stock. He considers mixed grain the cheapest that can be bought and the most valuable for stock.

### A GOOD INVESTMENT

Referring to the question of drainage, Mr. Baker said, "There is possibly no one thing in which many farms stand more in need of than underdrainage. There is no locality but that has need of it. I install more drains whenever I can



Brood Mares, (Clydesdales) Types of Which the Country Needs Many More

An especially good type of a Clydesdale mare is that to the left of the illustration. Note her general other mare is also a good one—the picture does not do her justice. Both are owned by Mr. T. Baker & Son, of whose farm practice the adjoining article deals.

barley, 16 to mixed grain and 22 to oats. We used to grow a lot of peas but until the last year or two we have had to abandon them on account of the weevil. It is not possible to stick to any hard and fast rule. We are liable to get sow thistle from a neighbor in apite of everything that can be done and in such a case, it is necessary to abandon rotation and to put that field into rape."

RAPE A VALUABLE CROP

"I always have a field of rape each year. It provides pasture in the fall and permits us to reserve red clover for seed. (Probably the easiest money we get hold of comes from our red clover seed; some years we have over 100 bushels, other years, 75, 60 or 40 bushels). I have grown rape for over 30 years. The land for this crop is manured lightly and is worked as for turnips. About

get them in. I have tile on hand ready to install whenever the opportunity offers. The results of underdrainage are not the same for any specified year. The benefits derived vary with the season, but in ordinary cases, land in need of drains will pay for the cost of draining with two crops and provide good interest on the money as well. Often one crop will pay the entire cost. Underdrainage is one of those things for which a farmer can afford to borrow money and pay interest at 10 per cent. if need be and he will then make money on the investment."

Not only does Mr. Baker excel in his cultivation of the land, he has choice stock as well. Registered cattle, sheep and horses, some of each, grace his stables. Shorthorns are the favorites. Speaking of them, Mr. Baker said: "I believe they are the

### MISTAKES IN CATTLE BREEDING

"Years ago, when good stockers could be bought, I used to feed steers. Most of the stockers of to-day are no good. People have made the mistake of their lives in using Holstein, Jersey and other dairy bulls on their good Durham stock and have spoilt them for anything. These dairy breeds are all right in their place but they should never be crossed. The Shorthorn on the other hand can be crossed and will leave his impress. What cattle we now feed are of our own raising. We aim to fit these for the best market having them ready at Easter and at Christmas times when the best prices prevail. We also raise some baby beef. One youngster which we exhibited at the Oshawa Fair weighed 1,010 pounds at one year old. He was fattened on rape in the fall and did not cost much for feed.

"If one would feed cattle to advantage," continued Mr. Baker, "he must have the right kind of stock with which to start. Did one offer me a Holstein steer and \$10 as a premium for feeding him I would not take the steer. There is no use of pouring feed into cattle that cannot make the best use of it and command the best price when marketable. It is the same with farrow cattle. They will require the same feed to fatten as the best steer and when you have them ready for market you must take two cents a pound less for them. We must, therefore, have the foundation—something to work with—a good tool—and as for registered cattle, the pride of having them and looking at them is worth considerable."

A very choice lot of Shropshire sheep are a part of Mr. Baker's stock. Discussing the sheep question, Mr. Baker said, "There is not a quarter enough of them kept. Sheep and clover seed give us our easiest money. Sheep will live anywhere, in inexpensive buildings, and only at lambing time do they need attention. There is only one flock of sheep where there should be 40. I keep about 20 pure bred breeding ewes and in addition deal to some extent in pure bred lamb.

### PROFITS IN SHEEP AND BEEF

"Some may ask wherein the profit comes in sheep and beef cattle. The sheep cost little for feed and sell readily. On those we buy, we often make from \$3 to \$4 a head. It is often possible to buy pure bred sheep in late fall for five cents; in January these can be sold for seven cents or more. As to steers, we have lought them and after three months of feeding made \$39 a head more than they cost us. This of course was an exception, but we can raise cattle up to two years old easily that are worth \$60 to \$65 a head. We sold a steer a year ago last Christmas for beef that came to \$71. We sold one last Christmas only 12 months old that brought \$49 and that without any special forcing, the steer receiving only ordinary care.

"As for horses, we keep Clydesdales, knowing them to be the best breed for the farmer who engages in horse breeding. There is not one man in 40 or 50 that has got the ability or experience or time to educate drivers or saddlers. Furthermore, they have not the roads or rigs necessary for such training and in consequence should they raise light horses, the stock must be sold to someone else to develop. Nor is this all. Lots of them are misfits. Only odd ones realize high prices. They blemish readily and are restless in the pasture. Clydesdales on the other hand are easily

educated. Advantage can be taken of their services at an early age and with proper care and proper feed from colthood, the Clydesdale can earn his living after he becomes two years of age. Any farmer can work him and get the best price that he is capable of realising on the market."

### PROSPECTS FOR FARMING

Some facts in regard to Mr. Baker's personal history are of interest. He had not much choice as to whether he should or should not farm. When 13 years of age, his father died. Two weeks after,



A Colt with a Promising Future

Note the general make-up of this youngster. No trouble shout getting a good price for coils of this kind, and best of all green the state of the sta

the house burned down. Mr. Baker was going to school at the time and of necessity he stepped right into farming shoes. That was 42 years ago this winter. When asked for his views concerning the farm, Mr. Baker replied: "I would not trade my position to-day for that of any lawyer or processional man I know of. The farm has been all right in the past and there is going to be more money in farming in the next 10 years than ever before. Now is the time to stay with it. It would be folly to give it up. We have been handicapped by many going to the West, but land values here are bound to increase and the money one might



Hauling Manure Direct to the Fields in Winter

It has become the common practice in the best farming sections to haul and spread the manure directly on the field in wither, even on deep snow. Mr. receipt on the field in wither, even on deep snow. Mr. was table but and Co. Ont., on whose farm the plotte of the common shape of the practice.

invest in good land in Ontario to-day would prove to be a safe and sure investment. I would have you note that matters have reached a climax in the United States. Production is decreasing, prices are soaring. There is bound to be good big prices for all products of the farm for years to come. Now of a surety is our time and we deserve everything we get.

"But even with such prospects, a farmer to do his best must have good land. I would not live on poor land. If a man would buck wood for a living, he would be unwise to have a poor saw. The same applies to land. Why not have a good soil? Poor buildings can be endured for a while. Good soil will produce them. There are lots of fellows who should have a bonus for living on their lands. They should move elsewhere.

"Starting as I did, before I was 16 years of age, I was of necessity compelled to think. To this I attribute much of my success. And after all if you once start a man to think, that is half the battle, unless he be a fool."—C.C.N.

### Breed Horses Along Definite Lines

W. D. Monkman, Simcoe Co., Ont.

In some localities, one breed of heavy horse is favored more than another. I have bred both Clydesdales and Shires and find both good horses for the farmer to raise. Some breeders get much in favor of their particular breed that it would not matter how deficient in good qualities it might be, these men would still stay with their favorite kind.

But he that as it may, the proper thing to do is to follow up some straight line of breeding and with each cross endeavor to improve the stock, no matter if it costs a couple of dollars more to secure the services of a sire that is a straight mover, of good size, strong constitution, good temper and one that is attractive. There is always a fair price offered for a good horse and the best is none too good to raise.

### May a Farmer Sell Low Grade Seed to His Neighbor?

T. G. Raynor, B.S.A., Seed Bran h, Ottawa
Every farmer should understand that it is just
as unlawful for him to sell for seeding purposes
in Canada any seeds of red clover, alsike, timothy
or alfalfa if any of the 26 noxious weeds seeds
now blacklisted by the Seed Control Act are present in the seed in a greater proportion than
five per thousand of the good seeds. The Weed
seeds a farmer should recognize in his small seeds
are ribgrass or buckhorn, ragweed, wild mustard,
bladder campion, catchily or sticky cockle, false
flax, curled dock, Canada thistle, oxeye daisy,
and chicory, of the noxious kinds and, foxtail,
trefoil, lamb's quarters and lady's thumb of the
less noxious weeds and which are not blacklisted
by the Act.

The only thing a farmer need not do different from the dealers in small seeds, is that he need not put a label on his seed showing the presence of ragweed or wild mustard.

Last year two farmers were fined for selling low grade seed to their neighbors for seeding purposes and this should prove a warning to others as it is unfair competition to dealers who are handling clean seed. Inspectors are instructed to deal with farmers who are reported as selling low grade seed to their neighbors for seeding purposes.

If farmers wish to retail seed they should send down representative samples of their seed to the Seed Branch, Department of Agriculture, Ottawa, Ont., where the work is done free of charge and not even a postage stamp is required to send it.

Dairy Records.-At a Vermont Dairymen's Convention a few days ago, we found a case where a cow in one herd gave a profit of \$90.75. a Another cow in the same herd produced a loss of \$15.60. The question is how many cows of the latter class would have to be kept to yield as much profit as the first cow? (Laughter). heard of one man who was afraid to keep track of the milk produced by his cows for fear that they were all poor and then he wouldn't have anything to feed his cornstalks and other feeds to. We must look these questions in the face, find where we stand, and act accordingly.-N. P. Hull, Michigan, in an address at the recent convention of the Western Ontario Dairymen's Association.

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### How to Grow Good Oats

John McDiarmid, Bruce Co., Ont.

The most essential point in raising good oats or any grain is to sow good seed. I have been in the habit of sowing only the large grain for soine years. I clean my seed twice and screen out all small grain. Another important factor is to keep the land clean and free from noxious weeds. It is necessary, if one would have the Lest results to sow a variety of cats that have proved to be a good yielder and that has good stiff straw of medium length. For seed purposes one should let them get ripe before cutting; ripe oats will germinate better.

Pure seed alone will not solve the problem of better crops unless due attention be given to the cultivation of the soil and the maintenance of soil fertility. It requires the judicious use of soil fertility. It requires the judicious use of the soil. By suitable rotation of crops and the use of farm yard manure the farmer can materially improve the yield and quality of his crops.

I try to follow as near as possible to a four year rotation. The first year after sod I grow corn or peas; second year wheat or oats; third year, oats seeded to clover and a little timothy. I always do all my plowing in the fall. As soon as the land is dry enough in the spring I give a thorough cultivation with a spring-tooth cultivator, then one harrowing, then for oats, sow with the seed drill at the rate of about seven pecks to the acre. I put the seed dwn not less than two inches deep. Then I give another thorough harrowing for it is essential to have a fine smooth seed bed.

### Making Prime Products from the Maple

Fred W. Schwartz, Pontiac Co., Que.

It should be borne in mind that it costs just as much to make a dark syrup as syrup clear in color. We have too much dark syrup on the market. Should this be when we consider that sap is as clear as the best spring water, and should be kept as near to the heart of mature as possible?

A great many people still cling to the old-fashioned style of making syrup. They seem to think that although the Indian was the first to make maple products in this way yet it would not have the right taste, except it be boiled and Lurnt on the side of the pot and kept boiling all day, the thin with the thick, with all the ashes and cinders that will fall into it. The Indian may have been the first man to discover this method, but remember he was trying to make this stuff of a color like his own complexion. The white man needs to make something better.

### STRAINERS

Sap, after coming from the trees should be made into syrup, as rapidly as possible. It should be strained as it is gathered. This can be done by having a tank with double removable strainers. It should again be strained as it enters the storage tank, using a cheese cloth strainer and lastly it should be strained as it comes hot from the evaporator. Every time that syrup is drawn off it should be placed by itself to cool. After it is cooled put it in a settling can where it can be filled, when thoroughly cold, into packages for market. The package, should be sealed air tight. A thermometer should be used to make standard syrup.

The outfit should be cleaned each morning. The bottoms of the pans need to be swept between corrugations. The operator cannot do better than to be clean about his work and each day try to m/ke maple syrup better than the last.

It is said by large dealers who adulterate, that the bulk of the syrup made in Quelec is too dark, and strong flavored to be nice without the addition of 10 per cent. white sugar. So it is up to every sugar maker to make light amber colored goods, with delicate maple flavor, that will not need adulteration.

TAPPING THE TREES

In this county we seldom tap before the 25:h of March. I have sometimes got a short run in February but too early tapping is not advisable, as a week of cold weather will dry up the bore. In tapping trees use a 7-16 inch bit. Have it sharp and without rust. Dull, rusty bits injure the trees. After trees are tapped 10 or 12 days they should be reamed with a ½ inch reamer, the chips being removed each time from bore. Two inches is deep enough to bore small trees, two and one is deep enough to bore small trees, two and one



Spring Days in a Peterboro County, Oat., Sugar Comp

The maple sugar bush is a part of the farm worth preserving. Properly handled, it is more than a rent paying institution. Mr. Wm. Payne, who took the photo reproduced above, is a firm believer in the value of the sugar bush. He gives his bush the care that is its due.

half inches for larger ones. Use a spout that will hold on the outside bark and don't drive spout too hard to cause inner Lark to crack, for this injures trees and causes sap to escape; always tap on the sunny side of the tree.

Buckets for a large bush should be in size part 10 and part 12 quarts; for small bushes, eight and 10 quart sizes will be all right. The six quart size I have found to be no good, as they are always running over.

### THE INDUSTRY

Sugar-making is a good industry. It is the best on the farm while it lasts. The maple product is the first crop nature gives us. The sugar maple is one of the best trees on the soil in which it grows. By tapping it you can make syrup, sugar, vinegar and wine. The tree can be used for lumber, some of it, bird's-eye maple for instance, cannot be excelled by any other wood that grows. Last, but not least, the "Maple Leaf," is the emblem of the grand Dominion of which we are all so proud.

### Fifty Years of Sugar Making

S. E. Ames, Huntingdon Co., Que.

Permit me to give the maple sugar and syrup makers a few points which I have learned from having made syrup and sugar where I now live for 51 years this coming sugar season. I commenced when a boy by helping my father tap 500 second growth maples, which he had trimmed up about 15 years before. Many of those trees are now from two to three feet in diameter and with immence spreading tops.

At that time he used 500 cedar buckets made by a cooper. We used an inch bit for tapping. The spouts were made of cedar shaped to fit the bore tightly. They had a hole through the centre of them which was burnt out with a heated iron, one-quarter of an inch in diameter. After a few years I came into possession and have run the bush ever since. The wooden buckets had to be dispensed with on account of drying up and many other troubles connected with them. Furthermore, they injured the flavor and also colored the syrup. Iron spouts came into use about that time. They were a great improvement and only required a half-inch hole and the tree would run sap longer. At this time I was tapping about 1,200 trees and using tin buckets. The old boiling pans had to be replaced by an evaporator, 4 x 12 fect, and a heater.

I was sure I had the right thing then. But like other outfits, mine had its faults and with so much

sap at good runs, the syrup would be quite dark in consequence of so much boiling over and over for hours. The iron spouts filled up, after a few years with rust, and nitre from the trees and it became almost impossible to get the nicest sap until they were pretty well soaked out by the first runs. All these imperfections caused dark syrup.

About 18 years ago 1 put in a more modern evaporator, size 5 x 14 feet, and then ran 2,000 buckets. I used this evaporator (The Grimm), 16 years without any cost for repairs. Then the back end began to rust out and I found I could use a larger one, so traded with the firm for one 5 x 18 feet. I also then put in the Grimm tin spouts. These are easily washed by soaking in water for a few days and then rinsing with

hot water.

FAIR PRICES FOR A GOOD PRODUCT

I average about 500 gallons of syrup a year and have never had any trouble to sell at good, fair prices. I find that in order to secure and retain the best market one must be as careful about keeping the evaporator, buckets, spouts and draw tubs as clean as if we were handling milk. Otherwise the best sap will make an inferior article.

I use a Grimm sugar-off pan and arch, size 2 x 4 ft., and one foot deep, in connection with the evaporation. It is a great help in hurrying off the syrup when there is a big run. I haul the sap on a wagon with low platform, close to the ground, under the axles. I have one or two men in the bush until the gathering is finished.

I have a record for 40 years of when we get the first good runs, consequently I ought to be able to tell in advance when the sugar season begins. I never look for steady sugar weather before the 10th of April, although, owing to hard times in consequence of drought we ought to have a month taken off.

Well drained land may be put under hoed crops thus facilitating the clearing the land of weeds. Well drained land may be worked earlier in the spring so that seeding may be done earlier and better crops of heavy grain assured, than on undrained soil, as grain ripens more evenly on land uniformly well drained. Crops, like animals, require an abundance of food for proper growth, hence a soil well supplied with plant food is necessary. The fertility of the soil can be maintained or increased by good drainage, short rotations, the growing of clover and heed crops to declan the land.—C. Nickolson, Wellington Co., Ont.

Farm and Dairy is the best farm paper I have ever taken and I am highly pleased with it.—J. W. Booth, Northumberland Co., Ont.

# Are You Preparing any Copy for our Dairy Number Which will be out on APRIL 7

If you haven't, get busy because it is going to be a good one. If you have anything to sell get it in for this issue. LAST FORM CLOSES APRIL 2

### FARM AND DAIRY

Advertising Dept.

PETERBORO, ONT.

THE BANWELL HOXIE WIRE FENCE CO., Ltd.
Dept. H, Hamilton, Ont., Winnipeg, Man.

land is well supplied with humus and nitrogen and the other main elements, potash and phosphoromacid, necessary for plant groups and phosphoromacid, necessary for plant groups and phosphoromacid, and will not give the best of seed of the pro-year's seed, no matter, how good use seed you sow. We shall take for granti-ed that there is on the average farm, one or two fields in a richer state than the rest of the farm; this is where to sow choice grain for the next years seed.

Then what about the working of that field? Anyone travelling through the country in seed time, and watching the work given in preparing the seed bed, will see that on about 75 per cent. of the farms, all the fields receive is a stroke of the cultivator; then it is seeded and harrowed. To complete the job the stones are pressed out of sight by a roller. This puts the seed in the land in good shape—at least some are of this opinion.

Perhaps I am knocking too hard at our own door, but the practice as I what about the working of

our own door, but the practice as I have stated is the rule, not the exception. We have heard and read ception. We have heard and read time and again about the different ways of working our land to increase crops, but very few follow those ways. This is another question however to

This is another question however to the one on fanning mill selection, that I am to write about, but it is of very I am to write about, but it is of very considerable of the one does not strive to ground the constraint of the constraint mill will have a hard job to granular. To the person who tries his best to have the seed bed in the best of shape, then I say by all means, "sow the best. How can we get the best? There are several ways, but the one easiest for the farmer, is through the best use of the fanning mill. Instead of just blowing out the dust, chaff and straw by passing the grain once through the mill, repeat it three or more times. Then notice the differ-ence.

ence. It is seed oats you are cleaning.
Aft passing the grain through several passing the grain through several passing the train through several passing the train through several passing to the several passing the several passing to the several passing the seve of the sample that you will have for

### Questions and Answers about

Corn The following questions concerning corn were asked and answered by Mr. J. H. Grisdale, of the C.E.F., Ottawa, at the recent convention of Dairymen at Belleville. Q.—How much corn do you plant

per acre?

per acrer

A.—If you sow in rows you will

need to use about half a bushel; if
you sow in the drill about 42 inches
apart. You can get along with ten twelve pounds.

or twelve pounds.

Q.—You would not get many ears sowing half a bushel to the acre.

A.—You have to practice thinning; put your rows 42 inches apart and cut out 8 to 10 inches in the row. I recommend sowing a fairly good seeding for the reason that there is always more of less come that there is always that the interest that there is always that the interest that there is always that the interest that there is always that the interest that there is always that ways more or less corn that does not come up, and if there is a miss any-where it looks bad and you lose that much land. I am a strong advocate

How to Secure First-Class Seed
Oats

Heavy Stubbs, Peterboro Co., Ont.
To secure best results from good seed, it is required that the best of ground, prepared in the best required that the best of ground, prepared in the best receive the best results unless his land is well supplied with humus and mitrogen and the other main elements, potash and phosphoric acid, necessary for plant growth. Worn out land will not give the best of seed for the next years's seed, no matter how good the seed for the next year's seed, no matter how good the seed for the next year's seed, no matter how good the one of two fields in the average farm, one or two fields in the average farm, one or two fields in the rest of the farm; this where to go the including the late of the seed of th

slot.

A.—That is included. I have ??

A.—That is included. I have ??

years figures of which we keep an excess account every year. We don't give you the good years and the good years and be account of the good years and the average cost in the silo. I calculate that it never costs over \$1.50 a ton and it very often comes down to \$1.10 and \$1.25 in the silo. and if you put in 200 tons you will probably get out 160 or 150. You lose quite a lot. I do not know where it goes, but it goes.

Q .- Do you try to get the corn in

Q.—Do you try to get the corn in the silo as soon as it is cut? A.—There is no born in allowing it to lay out a day born of We have a pretty strong gang of men and we can take our men from each take out of days before we start, and then we pitch in, and by the time we have cut a week we catch up. We run our harvester with two teams and start early in the morning and work late. Q.—How many pounds does it take to feed a cow?

to feed a cow?
A.—We have cows that weigh 600

A.—We have cows that weigh 6,000 pounds and cows that weigh 1,600 pounds. We do not feed the same to each. Take the average cow and she will take about 50 pounds of the mixture a day. We feed it tavice a day, in the morning and at night. We do not give them anything at noon. not give them anything at noon

Q.—Do you mix any cut straw with

the ration?

A.—Yes, 50 pounds of ensilage, 25 pounds of roots and five pounds of roots and five pounds of cut straw, and we feed the corn on the top of that. If the cow is milk-ing 50 pounds a day warg gire her 10 or 12 pounds of meal; if she is only milking 10 pounds a 'day she does not get much meal.

Q.—Do you not feed the dry cows any meal?

A.—Alout five pounds.

A .- About five pounds a day.

Pure Bred Horses.-A typographical Pure Bred Horses.—A typographical error occurred in the last line of the article "The Breeding of Pure Bred Horses," by Mr. Alex, F. McNiven, which appeared in Farm and Dairy, March 10. The last line of the ar-ticle, page 5, states that the dams cost \$575 a piece, whereas it should read \$375 a piece,

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before If a h with a early disc ha get to umn. double after so ten. L. Prepa

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eight to you hes fairly r

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as red o orchard attachme grass se mixture each par Sow the wise, the be sown ment on half by

Such a cription, well at i lbs. an ac extra goo

Light so seedin

Shallo

Could your columbield that soil on the getting a kind of se pasture? land? Wh to sow to same sease best for p these last much hay Co., Ont.

Brome that woul soiled fie brome 18 sow about Dutch ele

# FARM MANAGEMENT

### Land for Pasture-Alfalfa

What preparation do you recommend for getting land in shape for pasture? I have a small hill on my farm, the soil is of a light gravelly nature. It is never under water and drains rapidly. I took a heavy crop of clover from it last year. What would you think of the prospect for a field of alfalfa from this soil—J. P., tiuntingdon, Que.

Begin to prepare the land the year before seeding down. That is, man-ure and grow a hoed crop if possible If a hoed crop is out of question and manure is scarce, then plow from sod with a shallow furrow in late July or early August. Work well with roller, disc harrow and cultivator. Do not hesitate to do it often. Do not forget to work it well. Do not fail to work at frequent intervals all autwork at frequent intervals all autumn. Replow with a slightly deeper furrow, or, better still, ridge up with double mould board plow in October after sod is well broken down or rotten. Leave this all winter. Prepare for seeding by levelling with spring tooth, stiff tooth or disc harrow. Smooth harrow and roll. Sow

with spinon tharrow and roll. Sow two bushels oats, one and one-half bushels barley or one and one-quarter bushels buckwheat per acre. Sow grass bushels buckwheat per acre. Sow grass that the same time or bushols buckwheat per arc. Sow grass and clover seed at the same time or the same day. If land is were try harrow grass seed in with very light harrow and roll. If land is moderately dry, roll only after seeding. If land is moderately moist neither roll nor harrow at the time of seeding but leave till grain covers the ground, then roll in fairly dry weather.

Sow enough seed, sow 12 to 20 lbs. timothy, three to five lbs. lasike, and eight to 12 lbs. red clover an arc, if you hesitate about sowing so much,

timothy, three to nve us. alsaes, and elight to 12 lbs. red clover an acre, if you healtate about sowing so much, sow a little more. If your soil is fairly rich and well drained, add a later of the solid property of the be sown from the grass seed attachment on the grain drill, the second half by hand across the seeder rows. Light harrowing is necessary when seeding.

Such a field is, according to such a neid its according to des-cription, just exactly suited for alfalfa and if plowed next spring, worked well at intervals till July 16th, then seeded to alfalfa, at the rate of 20 lbs. an acre, might be expected to give extra good results.—J.H.G.

### Shallow Soil-Pasture or Hay Same Season

Could you give me information through your column re seeding land? I have a field that has only about four inches of soil on the rock, which soil is of a clay gravel nature; it is quite chance work of your content of the seed of the s

Brome grass is probably the crop that would do best on such a shallow soiled field as you describe. With brome 18 lbs. per acre you should sow about three lbs. per acre of White Dutch clover and about four lbs. of

Canadian Blue Grass seed. Care to give thorough soil preparation before seeding. If n soil preparation before seeding. If not absolutely necessary to seed down this spring your best plan would be to leave till July or the first days of August, then plow about four incise deep, roll and disc harrow alternately, till the whole top layer is well cut up, work at intervals till October the 15th or later, ridge up with double mould board, plow and leave all winter. Next

board, plow and leave all winter. Next spring sow grass seed mixture indi-cated using no nurse crop if soil is really as shallow as you say. A mixture of oats, peas, vetches, equal parts by weight, four bushels per acre and 10 lbs. Hungarian grass seed now acre will mydable give best.

per aere and 10 lbs. Hungarian grass seed per arce will probably give best results for hay, both as to quantity and quality. If intended for horses especially, then the Hungarian grass might be left out and the proportion of cats doubled.

For pasture, a mixture of cats, sortion of the control of the cont

### Co-operative Experiments in Agriculture

The Ontario Agricultural and Experimental Union are prepared to distribute in every township of Ontario, material for experiments with fodder crops, roots grains, grasses, clovers and fertilizers. Fully 2,000 varieties of farm crops have been tested in the Experimental Department of the On-Experimental Department of the On-tario Agricultural College, Guelph, for at least five years. These consist of nearly all the Canadian sorts and several hundred new varieties and new atrains, some of whice have done new atrains, some of whice have done will be used for the College and will be used for the the College and will be used for the the Autric in 1910 for the first time. the first time.

for the first time.

Each person in Ontario who wishes
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one of the experiments. Those wishing further particulars should write
the director, Prof. C. A. Zavitz, at as early a date as possible.

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### HORTICULTURE

### \*\*\*\*\*\*\*\*\*\*\*\*

**Pruning Fruit Trees** G. Wilds, Wentworth Co., Ont.

G. Wids, Wentworth Co., Ont.
One of the principal objects of pruning is to increase the learing of fruit trees. In pruning to form standards the first thing to be determined on after the plant has been received from the nursery and planted is whether the stem is to be tall or short; and the next, if the head is to be trained in any particular form, as a cone, globe, radiated, pyramid, etc., or left to assume its natural shape. If a cone or pyramid be determined

or left to assume its natural shape.
If a cone or pyramid be determined
on, a leading upright shoot must be
carefully preserved and the side shoots
kept at regular distances from each
other, being equally extended, as far
as practicable, on both sides of the
main stem, and keeping always in
view the ultimate figure.
If a globe is to be produced, no
If a globe is to be produced, no

view the ultimate figure.

If a globe is to be produced, no shoot must be permitted to take the lead, but a number encouraged to radiate upwards from the graft; and these should be kept as regular as possible, both in regard to distance from each other and to their extremities from the centre of the globe.

If the tree is to be left to its natural shape, which in our opinion is by far the best mode, it will, in the apple, pear, cherry and most other fruit trees, assume something of the

fruit trees, assume something of the fruit trees, assume something of the conical shape, at least for some years, but whatever shape it has a tendency to assume, that shape must not be counteracted by the pruner, whose operations must be chiefly negative, or directed to thinning out weak and crowded shoots and preserving its balance. I recommend that the points of the external branches should be everywhere rendered thin and pervious to licht, so that the internal parts. ous to light, so that the internal parts ous to light, so that the internal parts of the tree may not be wholly shaded by the external parts. The sun should be the external parts. The sun should penetrate deeply into the tree on every side, but not anywhere through it. When the pruner judiciously excutes his work every part of the tree, internal as well as external, will be broductive of fruit; and the internal part, in unfavorable seasons, will

nal part, in unfavorable seasons, will rather receive protection than injury from the external.

A tree thus pruned will not only produce much more fruit, but will also be able to support a much heav-ier load of it, without danger of being broken; for any given weight will depress the branch, not simply in depress the branch, not simply in the compount of the compount point of suspension. It is noted of se-point of suspension, by a node of sepoint of suspension, by a mode of ac-tion similar to that of the weight on the beam of the steelyard, and hence the beam of the steelyard, and hence 10 pounds weight at the extremity of a branch 15 feet long will depress it more than 150 pounds would if suspended within one foot distance of the trunk. Every tree will, therefore, support a larger weight of fruit without danger of being broken in proportion as the parts of such weight are made to approach nearer to its centre. I recommend that the shape or figure of standards should be conical, and this form is decidedly the most preferable. most preferable.

PRUNING TO FORM DWARFS.

The plants being received from the nursery furnished with shoots of one year's growth should be cut down to three or four buds, which buds will

ROOFING CO

throw out other shoots the following years, to form the bush or dwarf. these buds throw out, during the s these buds throw out, during the second year, more than can grow the third year without crossing or intermixing with each other, then superfluous shoots must be cut off, but if duous shoots must be cut off, but if they are to form a boad regularly bal-anced, or in other words, projecting equally beyond the seem on all sides, then one or more the shoots of the third year must be five vacancies in the bush. In this way must the tree be treated year after year, cutting away all cross placed branches and crowded shoots, ill at last it has formed a head or bush, globule, oblong or any other shape, according to its nature, observing in every form to keep all the shoots so every form to keep all the shoots so far distant from each other as not to exclude the sun's rays, air or rain from the blossoms and fruit. Cover wounds with shellac.

### How to Plant a Tree

The Oklahoma Experiment Station The Oklahoma Experiment Station has in press a bulletin on "Tree Culture," by Professor Morris, of the horticultural department. While the bulletin treats of many features, such as the best trees to plant for shade or post and pole production, perhaps the most timely and useful advice is that relating to planting which is as follows: as follows:

that relating to planting which is as follows:

"The trees should be set a little deper in the soil than they stood in the nursery row, or where previously grown. The soil must be worked in underneath the large roots and tamped about them. The top of the tree should be leaned slightly to the southwest. This enables the tree to resist the hard south winds and before the end of the first season the tree will be standing in an erect position. It is a good plan to shake the tree several times while tamping the dirt around the roots and to pour water about the tree in order to bring the soil in contact with every bit of root surface. After the water has been surface. After the water has been surface, and good surface should be thrown alout the tree to prevent baking."

### Propagating Trees, Bushes and Vines

"It is time," remarked Professor Crow at the short course at Guelph, "that fruit growers recognize that plants have as much individually animals have as much individually remarked truit trees and bushes from the best sanimals. It pays to propagate truit trees and bushes from the best animals in the pays to propagate truit trees and bushes from the best fruit trees and bushes from the best of everything and secure cuttings from it to graft or bud on desirable stock. Apples are propagated both be.

Apples are propagated both by grafts and buds. Seedlings can be grown or may be secured from the nurseries. In the winter these may be root-grafted and in the spring planted in the propagate of the spring planted in the present security of the pr

be root-grafted and in the spring planted in the nursery row about 12 to 15 inches apart or the seedlings and congress or a laways budded and are treed as for Ludding apples. Peaches are planted to no year old and sweet cherries should be. Apples will also be better thus planted if they are well grown. Currants and gooseberries may be propagated by cuttings. Take well matured young wood and have the cuttings from five to six buds long. These should be taken in the fall and buried in the earth or in sand in a cellar, having about two or three inches of earth over the surface. Place the cuttings upside down and stand them straight up. The upper two or three inches of earth are warmer in the spring than lower down, and so the base of the cut becomes calloused. When growth starts plant either in the permanent position in the field or in a nursery row. Plow out a turrow about three to furr inches down Playst METALLIC ROOFING CV in a nursery row. Plow out a furrow about three to four inches deep. Plant.

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about one-half foot apart if in the nursery row, covering with the foot, and leave two or three buds above the surface

the surface. Gooseberries grow best by mound-layering. Cut back the old bushes se-verely in fall. The next year they will send up a vigorqua growth of shoots. About July mound the earth up and in through these shoots leaving only the tips exposed. By fall the American varieties will be rooted and may be transplanted then or in the spring. Grape cuttings are made by king.

Grape cuttings are made by the prunings and cutting into of two er three buds long. Plant in the nursery row and be to get the cuttings upside down n. When buying from the nursery year-old, No. 1's. West often held over a year der onevines are and sold as two-year-old No. 1, but these are not so vigorous.—D.S.

Plan this year to grow bigger and

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Dr. B.

Elm ( Guaran J. H. RUTH

subscrip standare return Farm a Manager

### \*\*\*\*\*\*\*\*\*\*\*\*\*\* POULTRY YARD \*\*\*\*\*\*\*\*\*\*\*\*\*\*

### Prejudice Against Machines

Prof. F. C. Elford, Macdonald College Prof. F. C. Elford, Macdonaut Contey-For several years there seems to have been a growing prejudice against the use of artincial membation. This may have been because it has been stated that it was the cause of white duarrhea in young chicks. Now, how-ever, since Dr. Morse and other au-torities including Dr. Cushing of thorities, including Dr. Cushing of Montreal, say that the trouble is not caused by the artificial method of batching but gives its origin to other causes, this prejudice will doubtless vanish.

There are many farms where an in-

cubator should not be placed; farms where even the hens have to shift for themselves; where there is neither the time nor the inclination to give the incubator proper attention. Supeople should not buy a machine. In fact, I am not so sure that a farmer that raises only a few chicks each year would be benefitted by one. Those, however, who realize that the Anose, nowever, who realize that the poultry department of the farm pays when properly handled and want to make the poultry a money crop, may do well to consider what the incubator catalogue has to say.

### Poultry on the Farm

Wilbur Bennett, Peterboro Co., Ont. The greatest success can be made of The greatest success can be made of poultry in connection with the average farm. Poultry can be made more profitable than it generally is. In order that Farm and Dairy readers may inform themselves on how to secure some of these possible extra profits, is the purpose of this article.

nts, is the purpose of this article.

The average farmer unlike the poultry specialist is not dependent upon
poultry for his living. It is therefore
not so easy to put the farmer out
of the business. He does not need
to keep so many heas. From 50 to
100 are sufficient for the average farm
and if reverse. and if properly cared for, they will give more profit than three times that number that are indifferently looked after. For this number of birds, there after. For this number of birds, there is no need of resorting to artificial means of incubation. Through being able to avoid artificial incubation, the farmer has the greatest advantage over the specialist, who requires cincks in great numbers and therefore must hatch by artificial means

40 YEARS PROOF

KENDALL'S

Spavin Cure

ask you to forward one of your s horse with two Bog Spavins, we end of four months he was

mooth as the day he was foaled.
Yours respectfully, John Smith.
#1. a bottle—6 for #5. Get our book "A Treatise On The Horse" at dealers or write us.
BT. B. J. KENDALL CO., Enosburg Falls, Vt.

### Elm Grove Poultry Farm

Guaranteed Fertile Eggs for sale from the following breeds: Rose Comb Brown Leg-horns, Silver Grey Dorkings, Light Brah-mas, Barred Rocks, Mammoth Bronze Turkeys, Embden Geese, Rouen Ducks. Send for Catalogue

J. H. RUTHERFORD, Box 62, Caledon E., Ont. Member of the Leghorn Club of Canada Telephone 7 on 8

EGGS GIVEN AWAY in return for new subscriptions. Settings of eggs of any standard variety of four the sub-return for two new subscriptions of Farm and Dairy. Send to Circulation Manager, Farm and Dairy, Peterboro, Ont.

which if continued injudiciously low-ers the vitality of the stock and brings about the failure of the specialist's

meres from hier-favorible chicks
meres who use the incubator considered from the device
of the construction of the construction
been hatched by machine." It may not
seem to make any difference for the
time being, if one starts with good
vigorous stock; but in the end, fail
ure is inevitable, therefore make broilers, roasters or laying stock of your
machine hatched chicks, but never use
any of them for breeding stock. The
breed to hatch is more a matter of
choice than anything else, that is, BREED FROM HEN-HATCHED CHICKS breed to hatch is more a matter of choice than anything else, that is, if one procures the best possible strain of their favorite. I would advise one of the medium breeds for an all pur-

ose fowl, meat, eggs, etc.

The feed for the farmer's fowl must rgely depend on that which is availrgely able. On most farms, there is generally a lot of food that would be wastany a lot or food that would be wasted, were it not for the fowl. Wheat is by all means the best of grains; corn is good for a change. Fowls also require green food. This can be supplied in the form of clover and roots. Meat in some form is also required. Green bone is preferable. Grit

### More Orders Than Birds

My advertisement of pure poultry for sale on poultry page of Farm and Dairy has brought me most gratifying results. Recently when I offered a few Lirds for sale I received several times as many orders as I had birds and found it necessary to return the money to several of the parties who wrote me ordering some of the birds. I find that Farm and Dairy reaches a class of people who are interested in poultry.— Harry Lush, Peterboro, Ont.

shell and plenty of water should be before them at all times. Whole grain should be fed in a litter; ground teed should be fed in a dry mash.
HOUSING AND PROFITS

Hens do not require an expensive ouse. The house should be dry, free house. The house should be dry, free from draughts and provided with win-dows of glass or cotton on the south side, these to let in plenty of sunlight and fresh air. A straw loft proves very efficient in keeping the house free from moisture.

The profits to be derived from a usiness depends much upon the qualof the article produced and rket obtained. Strictly new market obtained. Strictly new-laid eggs, those that are not over at least a week old, shipped to a reliable dealer in Montreal or Toronto, in case lots should average at least 25 cents a dozen the year round. Where a single producer cannot fall. producer cannot fill a case in the desired time, it is well to adopt the cooperative system with some other producer in order to make up the reother producer in order to make up the required number. Broilers should fetch 30 to 40 cents a pound in May or June; good roasters or fewl 10 to 15 cents a pound, later in the season. Where one hatches and raises his chicks by the natural means, the cockerls reared with the pulleta will more than defray the expenses of the whole brood, thus leaving the pullets in the fall a clean sheet for their account when they will begin to fill the egg basket and if properly cared for make profit for their owner.

### Why Early Chickens Pay Best

Flavelles Ltd., Lindsay, Ont. The hen on your farm pays. You have no doubt about it. You don't give her much attention, do you? Well, don't it strike you that a thing that pays when receiving little or no attention, must be a gold mine when properly looked after? If you have

never thought of this matter, do so

now.

Suppose you hatch a batch of chickens on March 15th, and keep them ens on March 15th, and keep them warm for a month and a month and a cent cach for feed and are good lumps of chicks. Now, these chicks are large enough to eat any kind of feed and the grass is the greenest and food the most plentiful just at this time of the year; as a result the chicks grow very fast, in act twice as fast as summer hatched chicks. When the harvest arrived the harvest arrived the fields, will fatten with no other attention. They are ready to sell and have cost you are ready to sell and have cost you Suppose you hatch a batch of chickand if given the run of the news, what fatten with no other attention. They are ready to sell and have cost you the nearest to nothing of anything on the farm. Chickens raised in this on the farm. way bring from 60 cents to \$1.00 a

way bring from 60 cents to \$1.00 a pair, without any more trouble than putting them in a box and taking them alive to your dealer. New you know that it is the excep-tion to have a pullet which is hatched after May 10th lay before the next after May 10th lay before the next spring. Did you ever ask yourself why? This is the reason—they do not attain their full growth before the cold weather comes, and then the not attain their full growth before the cold weather comes, and then the food you give them goes to keep them warm. They have not had time to attain the laying habit, and if this is not attained before the cold weather sets in, it will not be before the food lowing suring. It cover a but to lowing spring. It costs a lot to feed a hen that does not lay. You might just as well feed one that does. The pullets raised early will start to lay in October at latest, and if kept warm and clean, will lay all winter, and it is then that eggs are the highest

### Poultry Pointers

Green food, such as apples, cabbage, steamed cut clover should be fed

It is a pretty good plan with pre-sent prices of fresh eggs to make an fort to get them.

If you find soft shelled eggs, it indicates the hens are too fat, feed less and keep them busy. If you have not made that purchase of an incubator or brooder you should not neglect to get your order in at once, so you may have it when you desire to start hatching.

Constitutional diseases can be transmitted and a close lookout should be given this matter,

In mating for breeding, be careful to have the male excel in points that are deficient in the females.

# ALFALF

OR LUCERNE CLOVER SEED

Are you going to seed down a field with this valuable forage plant? YOUR still this valuable forage plant? YOUR still this valuable forage plant? YOUR of the seed you select. Our "Gold" the seed good to be a fare, bright, PURE and good, It is a large, bright, PURE and be provided by the seed of the seed o

SEND FOR SAMPLE

Present prices for our best Red Clov-r, Alsike and Timothy: "Sun" Brand Red Clover.
"Geean" Brand Alsike Clover
"Diamond" Brand Timothy
PURE, CLEAN, THE BEST

We offer No. 1 Government Standard Red, Alsike and Alfalfa Clovers, also Timothy, at 50c per bush. less than above prices.

above prices.

If you order 200 lbs. or more of Clovers and Timothy, we will pay the freight to any Railway station in Ontario, east of Sudbury.

### **SEED OATS** SCOTCH GROWN REGENERATED BANNER

START in right now as a seed grain grower; use every care in preparing the soil. Procure some of our Regeneration of the soil of the soil

Send for Catalogue.

### **GEO.KEITH&SONS**

124 East King Street, TORONTO ONTARIO

Seed Merchants since 1866



Saves Labor and Money A roofing that has to dollars in the end.

A roofing that has to be painted every year or two is a constant care. Suppose you should neglect to paint yours in time. The chances are that when you did remember, which would probably be when you discovered it leaking it would be too late to paint or patch. You would roof a new roof. to paint or patch. need a new roof.

Now you can avoid all this bother and expense by buying Amatite, which needs no paint-ing or coating of any kind.

We will send you a sample ee. Write for it to-day and we will send you a sample free. Write for it to-day and settle the question for yourself. It will only cost you a postal card and will save you many Amatite comes in convenient rolls ready to be laid on the roof. Anyone can do the job. Liquid cement to seal the laps and large headed nails are supplied free in center of each roll.

We wish you knew as much about Amatite as we do; you'd buy it every time. It's the kind of ready roofing that makes satisfied customers.

Send to-day for a free sample to nearest office. That tells That tells the story.

THE PATERSON MANUFACTURING CO., LTD. Toronto, Montreal, Winnipeg, Vancouver

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### The Brandon Winter Fair

The Brandon (Manitoba) Wirter Fair has long been recognized as one of the best of its kind but it has been left to the year 1910 to establish a record for all round excellence which would be hard to surpass elsewhere in the Dominion. The exhibit of home raised and imported stock, horses and cattle especially, both in quantity and quality, was little short of marvelous. The fair building, the first of its nature in the west, despite many recent additions, was taxed to its utmost to accommodate the large number of en-

There was a great show of horse Clydesdales naturally predominated though there was a large number of Percheron, Shire and draft horses shown. The horse awards were placed by Prof. H. G. Richards of North Dakota Agricultural College, and Mr. T. McClay of Jamesville, Wis. T Clydesdale Grand Championship v won by Kevelenta Heir, a two-year-old owned by W. H. Bryce, Arcola, Sask. The Selegram Challenge Cup for aged The Selegram Challenge Cup for aged stallion went to Black Ivory owned by J. H. Perdue, Souris, Man. Among the other principal prize winners were: T. J. Has ard, Delora ne, Man.; were T. J. Has ard, Delora ne, Man; Jno. Ramsey, Lauder, Man; J. R. Schorff, Hartney, Man; A. Hodgson, Roland, Man; J. M. Hunter, Lauder, Waright, Man; J. M. Hunter, Lauder, Man; W. H. Bryce, Arcola, Sask.; D. J. Gray, Brandon, Man; J. B. Hogate, Brandon; W. J. Elder, Brandon; W. E. Butter, Ingersoll, Brandon; W. E. Butter, Ingersoll, Stone & Rogers, Wawanesa, Man; Willwood Syndicate, Willwood, Man; John G. Grey, Crandal, Man; Usan-stone & Rogers, Wawanesa, Man; Willwood Syndicate, Willwood, Man; John And. Graham, Pomeroy, Man.; John

And. Graham, Pomeroy, Man.; John Graham, Carberry.
Percherons put up a strong exhibit.
Honors were divided between repre-sentatives of the stables of Columbum & Beattie, Brandon; J. H. Hogate and McCallum & Son, Forest, Man. The Shire classes were somewhan light. A number of high-class heavy draught, and acricultural horses, and teams, and agricultural horses and teams were shown. Lighter breeds were well represented by exhibits of high

quality.

Cattle exhibits were strong and were judged by Prof. Kinsby. The Van Ho.ne herds of Selkirk captured most of the awards in pure bred Shorthorns, the animals being shown in the pink of condition. Representatives of the herds of W. H. English, Harding, Man., and Mr. Baron of Carberry, did distinct ceedit to the condition. ing, Man., and Mr. Baron of Carberry, did distinct credit to their owners. J D. McGregor, Brandon, showed a well fitted herd of Aberdeen Angus cattle. He captured most of the prizes in classes of that breed.

in classes of that breed.

The sheep and swine classes were all well filled. Messra. Campbell and Kinsby placed the awards. The chief exhibitors of sheep were: Todd of Hill-view, Man.; J. D. McGregor; A. J. McKay of Macdonald, Man.; and Skinner of Indian Head. Swine were reasonanted by individual shows fees.

A large number of high qual-ries made up the seed fair. Special classes were provided for registered seed and for hand selected grain both in the sheaf and in bulk.

The Brandon Winter Fair is or ng an ever widening place in the live stock and agricultural interests of Manitoba and of the North West. Types of breeds throughout the West will be regulated by those up-held at this fair.—H.N.T.

### How to Care for Harness

It often happens that a farmer is obliged to use the same harness on different horses. If he makes the different horses. If he makes the change in a hurry 10 chances to one he does not readjust the harness to the second horse. If a harness is taken from a large horse and then used on a small horse without readjustment there is not only danger of injuring the beast, but the harness is sure to suffer as well

Another thing that is very injurious to the harness is to pile the heavy parts on top of the bridle after it has been hung on the hook. The safest thing is to have a separate hook for the bridle, for this is the part of the harness that should be cared for best. A stranger always notices this first, and a bridle that is fastened together with fastened together with pieces of wire advertises the driver as a shiftless

The ideal way to care for harness The ideal way to care for harness is to build a harness room where the leather can be kept free from mois-ture. A good way to build this is-to line it with building paper. There should be plenty of room. If it is impossible to have a harness closet, the the work build have a far away from the pegs should be as far away from the manure as possible, for the gases and dampness arising from manure piles rots the leather faster than any-thing I know of.

OIL HARNESS TWICE A YEAR

OIL HANNESS TWICE A YEAR
Every harness should be well oiled
at least twice a year, so that it will
be in shape to give the service that
is expected of it. The oil works its
way to the surface, and when the
harness is exposed to a rain this oil
is washed away. If the oil is not
removed from time to time the
leather will soon dry out and crack.

is washed away. In the to time the removed from time to time the testher will soon dry out and crack. I don't believe in washing a harness. Washing does little good unless, there is soap used in the water, less there is soap used in the water, less there is soap used in it, which is and most soap has lye in it, which is and most soap has lye in it, which is and most soap has level on the leather. The oil soaks level on the leather. and most soap has lye in it, which is hard on the leather. The oil soaks into the harness much more easily if it is dry than if it is damp. Of course the harness must be cleaned, but this can easily be done without moisten-ing it.—G. H., Middlesex Co., Ont.

### Field Crop Competition, 1910

The Standing Field Crop Conrections have gone beyond the stage of experiment. Since their inauguration three years ago they have fully justified the expenditure of time and money, and no Agricultural Society which has once taken part in these competitions has failed to continue the good work. The Ontario Government has, therefore, again made a grant for Skinner of Indian Head. Swine were represented by individuals shown from the herds of A. B. Folter, Langbank, Sask; Skinner, McDonald, Napinka; and Thos. Jasper, Harding, Man. Poultry exhibits numbered over 2,000. All were of a very high order and made a special feature of the

be conducted under the following regulations :

1. Nature of Competition. (petitions will be limited to one of to be selected by the Society, which should be the one of most importance to the farmers of the district. Fields entered for companie. to the farmers of the district. Fields entered for competition must consist of not less than five or more than 20 acres, but for beans or potatoes the minimum plot must be not less than

Selection must be made from Setection must be made from the following crops, viz., Spring or Fall following crops, viz., Spring or Fall Wheat, oats, barley, rye, corn, peas, alsike clover, roda clover, roda clover, potatose, beans, or any other stape crop produced in Ontario.

2. Competitiors. Competition will be limited by manhase of an arrival.

beans, or any other support of the duced in Ontario.

2. Competitors. Competition will be limited to members of an agricultural Society and the fields entered such be not more than 15 miles from the competitions will be allowed to make Competitions will be allowed to make competition will be made by each competition must no Society, and but one entry can be made by each competition must notify the Superintendent not later than the first day of May, and must make not less than 10 entries. All the individual Entries. All the individual Entries are supported by the contractives must be forwarded by the contractive support of the contractive of the contra

ings, Toronto, on or before May 25th,

5. Societies may, if thought advisable, charge an entry fee of not more

### He Wants Another One

About two years ago I received from Farm and Dairy as a premium "The Farmers' Record Book," prepared by W. G. Hay of the Experimental Farm at Ottawa. I found this Record Book all that was claimed for it and would like to secure another one. It has been extremely useful to me.—Wm. Bates, Richmond Co., Que.

than \$1.00, but this is optional with the Directors of the Society.

An amount of not less than \$50 must be offered in prizes by each Society, to be divided as follows: \$15, \$12, \$10, 88 and \$5. Of this amount the On-tario Department of Agriculture will contribute \$30. The balance is to be supplied by the Society; and this \$20 can be counted as expenditure for agricultural purposes in the yearly finan-cial statement, thus increasing the regular Legislative grant to such So-

Judges. The Ontario Department of Agriculture will furnish expert judges tree of charge.

Grain Exhibit at Winter Fairs. Prizes will be offered by the Depart-Prizes will be offered by the Department for two bushls asks of grain at both Guelph and Ottawa Winter Fairs, the competition for which will be confined to prize-winners in the Standing Field Crop Competitions. Full particulars will be furnished later to the prize winners.

Sheaf Exhibit. In addition to the

Sheaf Exhibit. In addition to the above, arrangements have been made with the Directors of the Canadian National Exhibition, to be held in Toronto, August 27th to September 12. to donate \$240 in prizes for to donate \$240 in prizes for the shear exhibit of grain from the fields in the Standing Field Crop Competitions. Those eligible to enter are the first second and third prize winners. For this sheaf exhibit the Province has been divided into three districts, and been divided into three districts. and been divided into three districts. been divided into three districts, and prizes amounting to \$80 will be awarded to competitors in each of the divisions. In addition to the above the Directors of the Central Canada Exhibition, Ottawa, offer prizes for two bushels of white oats, together with sheaf of same, to be taken from a field which has won a prize in the Field Cron Competitions during 1910. Those wishing to enter for the Ottawa

# Put the Joke

on Him If any one tells you that disks are no essary in a more received in the second of the second

Then tell him that Sharples Dairy
Then tell him that Sharples Dairy
Then tell him that Sharples Dairy
The Sharples Dairy
The Sharples Dairy
The Sharples Dairy
Thoular Cream Sparators need no disks
because they produce skin.ming fo.ce
enough without them—that Dairy Tubulars
enough Willings "yet produce twice the
sharples of force, skin faster, skin soveral
times cleaner and last longer than common
machine. machines



Full pan shows disks from con-ators. Other pan shows the ators. Other pan shows the only piece used inside Sharples Dairy Tubular Bowls.

Tubular sales easily exceed most, if not others combined. Tubulars probably all, others combined. Tubulars probably replace more common separators than any one maker of such machines sells. The manufacture of Tubulars ic no of Canada's leading indu tres. The Woll's B.st.

253



THE SHARPLES SEPARATOR CO. Toronto, Ont. Winnipeg, Man.

Competition must communicate with Competition must communicate with E. McMahon, Secretary, Ottawa, who will forward Prize List. Further in-formation may be had from the Sup-erintendent, Mr. J. Lockie Wilson, Department of Agriculture, Toronto.

### How to Clarify Maple Syrup Mrs. W. Sager, Wentworth Co., Ont.

Sap in the first place should be strained twice before it is boiled; as it strained twice before it is boiled; is str goes into the tank and as it passes to the evaporator. While it boils, take the seum off with a skimmer. If you would have a clear syrup of the high-est quality, the syrup should be drawn from the evaporator two or three times a day a day.

a day.

After the syrup is taken off and while still hot, put it through a felt strainer into tin cans holding 20 to 25 gallons and allow it to stand all night. The following morning pour it carefully into pails. If the evaporator is used, settlings do not appear until near the end of the season.

We clarify all our syrup in a boiler

near the end of the season.
We clarify all our syrup in a boiler filled over half full. While the syrup is cold in the boiler, we add three-quarters of a cup of cold milk. This brings the scum to the top and being the scum to the top and being the syrup starts to boil it is the strong of Tha server is then strong the strong the syrup starts to boil it. fore the syrup starts to boil it is skimmed off. The syrup is then strained through plain white flannel and is

Annual Meeting.—The annual meeting of the shareholders of The Rural Publishing Company, Limited, will be held in Toronto, at the Walker House, on Wednesday, March 30, at 1:30 p.m.

Pure bred fowls, any standard vari-ty, given away in return for new ety, given away in return for new subscriptions to Farm and Dairy. See advt. on another page.

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mi

Upon well drained land, the clover plant is the best sub-soiler we can have, as it sends its long tap roots down into the sub-soil where its little down into the sub-soil where its little fibres gather the mineral matters, the phosphoric acid and potash, storing these up in the structure of the plant where they are held and supplied to future crops.—Thos. McMillan, Hur-

### Anti-Trust Prices Freight Prepaid on FARM and TOWN **Telephones and Switchboards**

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nt, ed book on the Telephone **sent Free** to anyone writing us about nes or systems being talked of or organized.

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Syrup o., Ont. ould be ed; as it passes to ils, take If you If you the high-pe drawn ree times

off and h a felt 20 to 25 Il night. it care-prator is ar until a boiler le syrup I three-k. This

and be strain-

will be House, 30 p.m. d vari-

ry. See clover we can

roots little ers, the storing e plant lied to , Hur-

# Our Legal Adviser

WORKMAN'S LIEN ON BUILDING— If I let a contract to a contractor for the building of a barn can one of his employes seize on my building for his wages if I have paid the contractor in full?—Subscriber, E. P.

Under the Mechanic's and Wage Earner's Lien Act every workman who performs any work or services in con-nection with the construction of a building is entitled to a lien thereon

outding is entitled to a lien thereon for the value of his services, subject, however, to the following restrictions.

(1) The owner of the building is not liable to pay liens to a greater amount than 20 per cent. of the total cost of the building (where the contract is under \$15,000), provided he has made his payments to the contract.

has made his payments to the contract-or in good faith.

(2) The person claiming a lien must register his lien against the property within 30 days after the completion of the particular work performed by him, and should where he has been employed by a contractor give notice in writing to the owner of his claim

(3) In addition to registration of his lien, he should take court proceedings to enforce the same within 90 days after the completion of the services rendered.

rendered.

We would also point out that the
Act protects the owner of the property by authorizing him to retain
the 20 per cent. for a period of 30
days after the completion of the whole
work, and unless he expressly contracts with the contractor to the contracts with the contractor to the contracts the contractor is not in a procitrary the contractor is not in a posi-tion to force him to pay this 20 per cent. until the 30 days have expired.

TROUBLE OVER DITCH—I have 12 acres of garden ground. There are 15 acres next to receive the control of the cont

Beseder." Cooksville, Ont.

We presume that either by agreement or by prescription your neighborh has the right to drain the water by the cooks of t

# Our Veterinary Adviser

FREE MARTIN.—Cow produced twins, a bull and a heifer. I am told that the heifer will not breed. If this is so, what can I give her to cause her to show oes-trum?—D. McD., Hastings.

trum\*-D. MoD. Hastings.
When twins are of each sex the female is called a Free Martin and in many cases will not breed. She is sunposed to be an animal in which the genital organs are not fully developed. While this rule often operates, there are many exceptions. I have followed the career of free martins as much as possible end have known many of them to breed while many do not. In cases where they do not naturally show oestrum nothing can be

done to fetch on the terms. In corr cases they show oestrum regularly and at the same time do not conceive.

FATALITY IN PIGS—80w farrowed on January 19th. I fed sow on cat chop and shorts in the form of a drink, with some skimmed milk. When three weeks old the pigs took diarchoes, and began to die one by one. I have weaned them, and am feeding them skimmed milk, but they are still purging and dring—8. S. Vars, Oht.

The pigs are dying from diarrhoea which probably was caused by feeding the sow no laxative food and now that the sow no laxative food and now that they are weaned is kept up by the skimmed milk. Feed whole milk to wrich add 1-5 of its bulk of lime water. Also give a little chopped oats with the hulls sifted out. Keep comfortable and allow plenty of exercise.

BLACK QUARTER.—(1) What is the cause of black quarter in young cattle?
(2) What are the symptoms? (3) What is the cure? (4) Is it contagious? (6) What can be done to prevent it?—J. D., Hastings Co., Ont.

or in rare cases in two to three days.

3. There is no cure as yet dis-

covered.

4. Not in the ordinary sense, but, it is probable the blood of a diseased animal, if injected into a healthy one would cause the disease.

5. Prevention in keeping young cattle off infected pasture or from infected hay. Immunity can be given exist reasonable certainty by inoculawith reasonable certainty by inoculawith reasonable certainty by inoculawith instanti black leg serum, which with instanti black leg serum, which with instanti black leg serum, with organized can be decreased in the control of the control of

FISTULA IN TEAT.—There is a hole in the side of one of my cow's teats. Can this be plugged, and if so, how?—E. W. H., Norfolk Co., Ont.

Its will be better to not attempt treatment until the cow goes dry. Then scarlify the edges of the opening all scarlify the edges of the opening all around until they bleed, put in a stitch of carbolized catgut or silk and dress three times daily until healed with carbolic acid, one part, sweet oil, 25 parts. She will then be all right after next calving. If you are anxious to heat at once get a self-retaining teat syphon from a dealer vectorinary instruments, insert it vectorinary instruments, insert it the teat, treat as above and leave he sphon until the wound has healed. Of course in this case the milk from that quarter will escape through the syphon as it forms. can be done to prevene its to be a micro organism or germ that sometimes were contained by a micro organism or germ that sometimes expected by the contained by the contained by the contained by the contained by swelling of the muscles of the affected limb. The hand passed over the swelling causes a slight cracking sound like passing the hand over paper. This is due to gas that is formed by the virus of the disease. The symptoms usually become rapidly worse and death takes place in a few hours

OUR BOOKS FRE

Get our FREE Books and Get More Profit from Your Farm The Business Farmer doesn't sell out y new lands. He makes his old lands

buy new lands. He makes his old lands by fertilizing. t our Free Books which go into the e subject of Nitrate of Soda fertilizing show how little it costs to get larger and more profits,

# Nitrate of Soda

is an investment that's bound to pay. Thou-ands have proved it. So can you.

RAT—Bittes before, used 100 like to the sers has
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# An interesting story, relating the facts that a farmer found out about a Trade Mark.

This is a plain, truthful story about a farmer who lost dollars—hundreds of them—by save no uncertainty. He found out that the "Little

He knew how to farm—how to get every quarter out of his cattle and the soil. But-there was one thing this farmer did not know.

He did not know as much about Bird Neponset Products as he should. He did not know that the Trade Mark you see in this announcement was a guarantee of lasting qualitya guarantee just as good as gold. So he roofed his barn with a roofing very similar in appearance to Paroid Roofing. It cost just as much to apply that roofing as it would have cost to apply Paroid, and, when applied, it looked good. It even looked fairly good at the end of the first season's wear. But during the second winter Jack Frost bit into it, April Showers soaked it. The hot summer sun blistered it. Fall's driving rains swept through it. A two years' test

driving fains swept inrough it. A two years test reduced this handsome roofing into a mushy, leaky business that called for a new roof.

Then this farmer investigated the roofing question. He discovered that Bird Neponset Products

no uncertainty. He found out that the "Little Girl" and the name "Neponset" was the centuryold firm's guarantee of Quality and Durability. It's easy to figure out how he lost considerable money on his barn alone. He also lost money



on his poultry shed. And he was mighty lucky that he didn't lose more on both. But, he was a philosopher as well as a farmer. He ripped off the "Just as good" roofing and covered his buildings with Paroid. Let him finish the story: "A man who pays attention to his business on the farm can make money. But when it comes to erecting or repairing buildings it's the easiest thing in the world to waste hundreds of dollars. The important thing about farm buildings IS the right roofing. The wrong roofing is never worth its first cost-never worth laying. Because I was fooled once I investigated the roofing question, now I know. Take my advice,

when building or repairing, look for the "Little Girl" Trade Mark—before buying roofing. That Trade Mark is on every roll of PAROID ROOFING

—an absolute guarantee of value based on the time test—the only test there is—for a roofing. F. W. Bird & Son are the originators of the complete Roofing Kit—there's cement, nails, rust-proof caps and complete directions for laying in each roll of Paroid.

OUR OFFER: When you see Paroid on your roof—if it is not satisfactory tell us and we will send you a check for the cost of the roofing and the cost of applying it. If any BIRD NEPONSET PRODUCT ever proves defective in manufacture we will replace it. If a broader guarantee than this could be made we would make it.

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### FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.

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I. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District, quebec, Dairymen's Associations, and of quebec, Dairymen's Associations, and Jer-sey Cathan Bolstein, Ayrshire, and Jer-sey Cathan Bolstein, Ayrshire, and Jer-

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### FARM AND DAIRY PETERBORO, ONT.

### TWO "BIG" MEN NEEDED

The resignation of Dr. J. W. Robertson from the principalship of Macdonald College has created a situation that requires to be handled with the utmost good management or that institution will suffer a setback from which it will take years to recover. A great mistake was made when Macdonald College was placed indirectly under the management of Mc-Gill University. While there are many ways in which the two colleges should co-operate, it is necessary for the success of Macdonald College that it should be managed by a man with a free hand.

There are many men who will be clamoring for an opportunity to fill the position left vacant by Dr. Robertson's resignation. There are few of them who are competent to undertake the task. The Principal of Macdonald College should above everything else, be a man who commands and holds the respect of the farmers of the country. He must be a man who is close to the farmers in found it necessary to secure a new

cipal may be in other respects, he and the United States and select such will fail if he lacks these essentials. The Principal of Macdonald College also should be a man who can go throughout the country, as does President Creelman of the Guelph College, attending and speaking at farmers' meetings and arousing their interest in the problems of the day and indirectly in his institution.

What the resignation of Dr. Robertson may mean to Macdonald College is shown by what it has meant to the Dominion Department of Agriculture. When Dr. Robertson was Commissioner, the Department was stronger than it has ever been since. Dr. Robertson was constantly inaugurating new movements for the uplift of agriculture. While not all of these have been successful, they have invariably been aimed in the right direction and all have been productive of good.

Since Dr. Robertson's resignation no large movement for the advancement of agriculture has been initiated by the Dominion Department of Agriculture. The Deputy Minister of Agriculture, a man utterly unacquainted with agricultural matters, has largely assumed the direction of the affairs of the Department. While he is good as an executive officer, the Deputy Minister, through his lack of acquaintance with agricultural conditions, is not qualified to perform the duties that devolve upon him.

The poultry division, which was doing good work under Dr. Robertson, has been abandoned since his resignation. The Fruit Division has been placed under the Dairy Division with the result that both in the Fruit and Dairy Divisions little but routine work has been attempted. The Live Stock branch has been affiliated with the work of the Veterinary Director General, with the result that although Dr. Rutherford is one of the ablest Government officials we have in Canada, he is unable to perform several men's work and consequently is unable to do as well with either department as he otherwise might.

While Dr. Robertson had nothing to do with the work of the Dominion Experimental Farm, and, therefore, its efficiency has not been impaired by his resignation, still there is need for improvement at the farm. Too much time is wasted there in looking after petty work, such, for instance, as the distribution of free seeds while the greater problems of the day, with which members of the farm staff are anxious and competent to grapple, are being left untouched.

Hon. Sydney Fisher is the most capable Minister of Agriculture Canada has ever had. The great multiplicity of his duties, however, compels him to relegate much of his work to his assistants. This makes it of vast importance that he shall have a Deputy Minister for the Agricultural Department of his work who shall be competent to handle it.

When the University of Toronto sympathy and in training. No mat-president, it wisely appointed a com- the failure of your 1910 corn crop.

ter how well qualified the new prin- mission to visit points in Canada a man as was required. The selection of Dr. Falconer justified the appointment of the commission.

In looking for a principal for Macdonald College and for a Deputy Minister of Agriculture for the Department of Agriculture, Sir Wm. MacDonald and Hon. Sydney Fisher might well follow such an example. Two men such as are needed for these positions will be very difficult to find. The search for them should he made not only in Canada, but in the United States as well. Some of our Canadian boys who are now in foreign lands, such, for instance, as Prof. Andrew M. Soule, President of the Georgia Agricultural College, as well as others who might be mentioned, have made names for themselves abroad and might preve to be just such men as are needed. If necessary, months of time should be taken to secure such men as are needed. It is imperative that they shall be found.

### THE PRESENT LAW EFFECTIVE(?)

Although Mr. Stock's bill to regulate the automobile was given favorable support in the legislature, it met death at the hands of the Municipal Committee. The bill contained several clauses which would have improved existing conditions. However, for the time being we must be content with the law as it stands.

In the meantime, influence should be brought to bear upon local magistrates, when necessary, to have them impose the penalty of imprisonment rather than the fine in the case of convicted motorists. A fine means nothing to the wealthy autoist. If compelled to spend a week in prison, reckless chauffeurs would gain some appreciation of the rights of others. Since the present bill has been declared to be effective, it is certainly up to the Attorney General and his Department to see that it is enforced and that the auto nuisance is regulated so that equal rights may be extended to all on our public highways.

### PROCURE SEED CORN EARLY

The foundation of the corn crop is strong seed. Now that corn has become an all important crop with the dairy farmer, the seed is of prime consideration. It is well to buy seed corn early and it should never be planted without having first been

A larger percentage than usual of last year's corn crop is unfit for seed. It is, therefore, more important than ever that seed be purchased early. Each year countless farmers fail to realize a full corn crop owing to their indifference about seed. We should never trust to the looks of shelled seed or even to the appearance of the ear. Actual germination tests are simple to conduct and should never be overlooked where seed corn is concerned. Test your seed corn now. If you have still to get it, don't delay; to do so may mean tario as we need. What is now re-

### **DEMONSTRATION FARMS**

In North Dakota and Minnesota, demonstration farms have proved to be a most popular means of carrying expert instruction to farmers on their farms. The work was started in 1906 with six demonstration farms in different sections of the state of North Dakota, sufficient funds to establish and conduct them having been placed at the disposal of the State Experiment Station by the Northern Pacific and Great Northern Railways-J. J. Hill when it is willed to be personal. The State Legislature, the following year, provided funds to start six more. Now there are 20 demonstr. tion farms in North Dakota. The State of Minnesota has now taken up the work and this year will have 19 demonstration farms in operation on which during the entire forthcoming season the farmers will be instructed in the latest and most modern methods in cropping the tracts set aside.

It is a matter of common knowledge that individual farmers here and there in various sections of the country have in a short period of years doubled the quantity of crops from their land and this has not been done by increasing the area under cultivation. Nor has it been done at the expense of fertility . The quality and quantity of the crop has been increased and at the same time the land has become more fertile for further production. How was it done? Merely through the use of selected seed and properly prepared soil, a suitable rotation of crops and protection against insects, weeds and disease.

These private farms are not always accessible to those who would go and learn. These farms and the methods practiced thereon are not public property, and those who might benefit from visits to them would feel more or less hesitancy in availing themselves of such opportunity. With demonstration farms more or less under Departmental control, it would be quite different. Anyone would be free to go and take advantage of the practical object lessons that would be available, hence the value of demonstration farms.

It is unfortunate that Hon. J. S. Duff, Minister of Agriculture for Ontario, weakly gave way to the petition of the agricultural societies of the province by granting them an additional \$8,000 to their already large grant. All told the agricultural societies of Ontario receive about \$100,000 a year. Some \$70,000 of this money is turned over to the societies in a lump sum. Poorer returns are obtained for this outlay than for any other expenditures made by the Department. Instead of turning the 8,000 over to the societies to do with as they liked, Hon. Mr. Duff should have specified the lines of work for which this money should be devoted, as was done with the money for the field crop competitions, which have been productive of much good. We have got fully twice as many agricultural societies in Onquired are fewer but better exhibi-

FARMS Minnesota. ve proved to s of carrying mers on their arted in 1906

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tions. Why, then, did the Minister of Agriculture increase the grant to the societies without specifying how the money should be expended.

### Controlling Spread of Weeds

Editor, Farm and Dairy:—During the summer and fall, writers have ex-pressed themselves through the col-

Editor, Farm and Dainy — During the summer and fall, writers have expressed them and fall, writers have expressed them and the paper Farm and Dairy, as to the best methods of eradicating noxious weeds from the farm. Many good practical methods were given for destroying these robbers of the soil. But I think that now is the time for the farmers to begin to control the weeds for the comin; year and for succeeding years. Many farmers will be buying their grass and clover seed during March. Every farmer should exercise the greatest of care in buying his seeds of the country that the buying their grass and clover seed during March. Every farmer should exercise the greatest of care in buying his seeds were seeds have the country to the country th

### Good Roads Instead of Canals

### Holstein Breeders' Outing

The members of the Quebec branch The members of the Quebec branch of the Canadian Holstein-Friesian Breeders' Association had a most enjoyable outing on Thursday, two weeks ago when they visited Les Chenaux, the splendid dairy farm of Dr. L. de Lot Harwood, at Vaudreuil, Quebec. Dr. Harwood excelled himself as a host and gave the members an outing that will lour be remembered. He host and gave the members an outing that will long be remembered. He engaged a special train which met the breeders and distinguished guests in Montreal and ran them out to the farm, a distance of some 22 miles, and later returned them to the city. From the time they left Montreal until they returned to the city the members of the party were the guests of Dr. Har-wood. A large sign on the train told the public the nature of the outing. At Vaudreuil some eight or 10 teams met the train upon its arrival

teams met the train upon its arrival and drove the guests to and from the tarm, a distance from the station or about two miles. Upon arrival at the farm at noon, the 100 or more excurto nove the spent an hour most enjoyably tooking over the splendid herd of Hoisteins owned by Dr. Harwood, including some 35 head of pure-bred animals. steins owned by Dr. Harwood, includ-ing some 35 head of pure-bred animals. Among the most noted animals in the herd was the cow that won the sweep-stakes at the Toronto and Ottawa Ex-nibitions last fall and another, pur-chased in New York State, that re-cently in an official seven day test pro-duced an average of 12 lbs. of milk a day. Dr. Harwood's herd was a re-velation to a number of the sight-seers, surpassing anything of the kind they had ever seen. The stable is a commodious, well-arranged one, being well lighted and well ventilated. Wa-ter is kept in front of every cow, and the animals are groomed and kept in the best possible condition. Some excellent young cattle were noticed. After the inspection of the herd the large party was entrained to an elab-orate dinner in Dr. Harwood's com-fortable and commodious summer resi-dence, where a meal was served that

tortable and commodious summer residence, where a meal was served that would have done credit to a high-class city hotel. After dinner the annual meeting of the Quetee branch of the Holstent-Friesian Association was held at which hearty votes of thanks were tendered to Dr. Harwood for his hostendered to Dr. Harwood for his hos-



# A FRIEND WHEN NEEDED

Ever Ready For Dairy Stunts

at which heart; votes of thanks were tendered to Dr. Harwood for his hospitality.

Dr. Harwood's farm is a regular experimental farm for the whole section of the country. It affords object lessons for the neighborhood that are producing great good. Many of the farmers around Vaudreuil do not appreciate yet the benefits of proper manuring of the soil, good cultivation, and the importance of keeping nothing but the best stock. Only recently Dr. Harwood purchased from one of his neighbors 32 loads of manure for a few dollars, the farmer who sold the manure declaring that he did not care to apply it on his land because it helped to produce weeds. Dr. Harwood ships his milk to Montreal, and is doing much to solve the question of the production of pure, wholesome milk.

One of the chief benefits likely to

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forces us to change our "Pig" Subscription Offer. Hereafter we shall require a club of 9 (NINE) new yearly subscriptions to secure a pure bred pig, free, as a premium. We are unable to fill present orders for pigs promptly, and find that we cannot now afford to give a pig for a club of only Seven.

NEW SUBSCRIPTIONS-Note the change in number. Nine New Yearly Subscriptions will secure you a pure bred pig of the following varieties: Berkshire, Yorkshire, Poland China, Tamworth, Duroc Jersey or Chester White. Write for particulars for all other breeds.

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### FARM AND DAIRY

PFTERBORO, ONT.

DO NOT FORGET APRIL 7TH The day our SPECIAL DAIRY NUMBER

is published CET YOUR AD, IN FARLY

The kind that always leaves your cheese and butter free from specks.

The 17.6 C. C. Pipette is Unfair Editor, Farm and Dairy:—I have maken and put is in the test both and put is in the discussion in the columns of Farm and Dairy in regard to the sampling for occurrence where the pipette with water and put is in the test both and put is in the discussion in the columns of Farm and Dairy in regard to the sampling for occurrence where the pipette with water and put is in the test both and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in the fast as sent and put is in the test both and put is in samples of cream tested by both methods are the list, why, and the list, why, in making the list, which was the list, which was the list of the list, which was the list of the list, which was the list of the same sample by the two methods and especially would this have been true of the richer cream would have contained more butter fat than the 4 c.c. of the thinner cream

### How to Control Moisture\*

How to Control Moisture

Moisture has been talked over, worked over, worked in and worked out, also paid out a miss for violating the 16 per cent. What I wish we could do is to arrow What I to 16½ per cent, with no danger of exceeding the limit or hurting the texture of our Lutter. While we know the incorporation of moisture in our butter to be dangerous and should our butter to be dangerous and should be left entirely alone, the tempta-tion is too great, we cannot help trifi-ing with it. It is like the women— we know that they are dangerous and to be left alone. we know that they are dangerous and to be left alone, yet we cannot help sticking around them until we finally get hooked up with one of them for life, and we will get hooked for some time by the Government if we are not careful how much we trifle

\*An extract from an address by James F. McGill, at the recent convention in Mil-

# the thinner cream The 18 c.c. pipette has always Leen

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with the incorporation of moisture in our butter. Unless we are careful and sure it is best to leave moisture alone and work for quality and a bet-ter raw material for there is a great field for work and experiment. Quality first, then after we have obtained a perfect mark or near it, we can con-sider these other things.

perfect mark or near it, we can consider these things.

As we are for things.

As we are for the meet strong competition and est no other fellow can by securing 15 to 15 12 per cent. I moisture pay more than the sup to us. I have tried my hard it is up to us. I have tried my hard getting near the legal standard of moisture, 15% per cent. I worked and experimented and tried out different systems and suggestions from time to time and had lots of trouble at times, too. My first experience at times, too. My first experience at times, too. My first experience and the amount of butter turned out from the same amount of cream I and the amount of butter turned out from the same amount of cream I usually had was so much larger that I began studying and experimenting, sometimes with good results and some-times with bad. At that time we had heard little of the moisture test or the systems for sale of incorporating moisture. I know not how much moisthe systems for sale of incorporating moisture. I knew not how much mois-ture my butter contained. Later ture my butter contained. Later secured a Gray's Moisture test and since then I have used most of the

There are a number of ways of incorporating moisture, but I want to tell you, brother buttermakers, that you do not want to try them without you have a good moisture test and test each churring so that you know the sound that you have a good moisture that you know the sound to the sound to the sound to the sound that you have the sound that I never had any trouble that way. I heard of one way of getting a large over run, both moisture and curd; that is, to draw off one-half the buttermilk after butter breaks, add warm water and churn until butter gathers in large lumps, then put rolls in motion and work as many times as you with

wish. Another way to secure moisture is Another way to secure moisture is a churn exhaustively or so butter to churn exhaustively or so butter to churn exhaustively or so butter and the security of the secu have incorporated all the water no-cessary and contained and the water no-cessary and the same as a test from these monocles of but as a same as a contain 17 to 18 to 18 per cent. and even 14½ per cent. after standing over night. So if your standing over night. So if your standing over night. So if your standing to the solving flasky salt and wet it a little so it will not take water from your butter, you will have plenty of nois-ture without trying any moisture sys-tems, and you will not have an ex-cessive amount of curd or salt. My advice to you brother butter-

My advice to you brother butter-makers is to be sure you are right and within the limit, and unless you are sure, leave moisture entirely alone.

All evidence points to the fact that cooling, without aeration, is the proper thing to do with milk for cheese making.—Geo. H. Barr, Chief Dairy sion, Ottawa, Ont.

Altogether 11 creameries are now in operation in Saskatchewan and five of these are under private and com-pany control. One of the creameries will be under government supervision in 1910 and a new com-pany is being formed for that pur-pose.—W. A. Wilson, Supt. of Dairy-ing.

# THE WAY TO GET FULL VALUE From Every Pail of Milk

YOU are not making all the money you could make out of the cows you keep unless you use an I H C C You are not making all the money you could make out of the cowy you keep unless you use an I H C Cream Harvester. You know how much butter fat you lose if you skim the old-fashloned way-from 20 per cent to 40 per cent—not to mention the time and labor wasted. Such methods are out of the question for the farmer with the 1910 spirit of progress. It is equally poor business to use a cheap, out-of-date or makeshift separator. Such ma-chines are hard to clean, hard to turn, last but a short time, never give satisfaction, are never worth the price.

With Least Labor

The money-making dairyman is the man who invests in a separator that will skim to a trace; that is simple enough to be kept perfectly sweet at all times, so he gets quality cream; one that turns easily—so that any member of the family may skim without effort; one that will do the work day in and day out, year after year. For such a separator choose one of the

# I H C CREAM HARVESTERS

Be sure to investigate these machines before you consider buying any other make at any price. That is all we ask. You don't need to be an expert to see that the design and construction of an I H C is more simple and practical than any other. The content of the dust and milk-proof gearing; most perfect straining device insuring pure cream and skim milk; frame entirely accepted from wear by bronze bushings at all points; has largest shafts, bushings and bearings; simplest, surest, most reconomical oiling arrangement; flexible top bearing prevents vibration and keeps bowl steadied, no matter if power is unevenly applied, many other features equally superior to all other separators.

If I C Cream Harvesters are made in two styles—the Bluebell, gear drive—the Dairymaid, chain drive, Four acceptance and significant of the content of the con

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### Cheese Department

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

### \*\*\*\*\*\*\* To Continue Whey Butter Manufacture

From the manufacture of whey but ter at the Warsaw factory during the past season a sum of \$700 was real-ized. At the annual meeting held re-At the annual meeting near recently the patrons seemed pleased to have had the butter so handy and fresh for summer needs. The demand for it among the patrons last year was so keen that it was scarce in the months.

The whey was not all separated, as the capacity of the tanks for holding it on some Mondays was scarcely suffi-cient. The skimmed whey gave satis-faction. Some who used it could see no difference in the results of feeding it. from versions

cient. Ine sammed whey gave assertantion. Some who used it could see no difference in the results of feeding the province seasons. It was the province of the province seasons. It was the province of the pro

son's work was quite gratifying to all

bennermed.

The dairy industry furnishes a very helpful source of income, as there is a good deal of land in this locality, not so good for crops, but which can be grazed cheaply. The good land can of course be used for growing corn, roots and hay to tide over the poor grazing periods. We have alto-getter too rew silos, but the few we have are appreciated by their owners. Our dairy interests would be benefited by more silos.—Stewart R. Payne, Secretary for Warsaw factory.

Renew your subscription now.

# **BUY COINS AND STAMPS** Canadian and Newfoundland Especially Wanted Royal Money & Stamp 150 Nassau St., N. Y. City SEND FOR FREE BOOKLET No. 14

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WANTFD—Persons to grow mushrooms for us. Small waste space in yard, garden or farm can be made produce from 815 to 825 per week. Write for illustrated booklet and full particulars. Montreal Supply Co., Montreal.

### Eastern Dairy School Examinations

The final examinations of the rome course of the Eastern Dairy School were concluded on Wednesday, March were concluded to Wednesday, March 19th. The total registration during 40 and of these 25 were concluded on Wednessay, March 9th. The total registration during this course was 49, and of these 25 took the final examinations, both writ-ten and practical, in cheese-making, operating of cream separators, butter-making, milk-testing, boilers and en-gines, as well as written examination:

gines, as well as written examination in bacteriology and dairy chemistry. The following 18 students were sucressful in passing in all subjects. The total number of marks obtainable wa-200. First-class honors, 75 per cent. 900

Ont.

### W.O.D.A. Directors Meet

The Directors of the Western Ontario Dairymen's Association at a Board Meeting held in London, March 4th, decided to again conduct a Dairy Herd Competition, possibly along slightly different lines to the one of last year. The details of working out any changes were left to the executive

committee.

It was decided to accept the invitation of the city of Stratford to ho'd the next Annual Convention and Winter Dairy Exhibition in that city; the dates and working out of the prize list to be left with the be left with the executive com

# Septic Tanks at Cheese Factories

Frank Herns, Chief Dairy Instructor, London.

A difficulty met with, particularly in the early part of the season, was that at some factories a great deal of whey was left over from day to day. This surplus whey became sour and acted as a starter in the fresh whey making it difficult for the factory men to do good work, as they had no way of disposing of this surplus whey. We of disposing of this surplus whey. We would strongly urge that the patrons co-operate with the marker in emptying the tank each morning during the early part of the season, so that only fresh whey will be in the tank from day to day. Also that later in the season when the whey is short only each patron's abare be taken. The most satisfactory method is to have most satisfactory method is to have the control of factories have adopted this system.

Another difficulty Another difficulty came about through the common practice of allowing the wash water to go into the tank. This not only had a tendency tank. This not only had a tendency in some cases to contaminate the whey after it was pasteurized, but also di-luted the whey and maue an accumu-lation difficult to dispose of until the latter part of the season, when the whey began to get short. Some of the factories, seeing this difficulty, began factories, seeing this difficulty, began factories, were already in a nosition of discossing of this wesh water. Some factories were already in a nosition of disposing of this wash water, come factories were already in a position to handle the wash water. Factories which have put in septic tanks large enough to handle the wash

water are having good results, and I would strongly urge factories intending to put in septic tanks to be sure they are large enough. It is better to have them too large than too small. they are large enough. As the small, have them too large than too small, have them too large than too small. Small septic tanks soon fill up with sediment and have to be frequently cleaned, while the large tank works better and needs cleaning only at the end of the season. A tank for an average factory should be 12 to 15 feet long, six feet wide and five feet deep. It should have three compartments.—Part of reart on instruction in cheese. Part of report on instruction in cheese-making for 1909.

If all the cheese factories in Ontario would pay by test, it would mean a better quality of milk, a just division of the proceeds, a better quality of cheese, adulteration would be discouraged and cow testing, which is one of the best movements in dairying to-day, would receive a great impetus

—J. F. Singleton, Kingston, Ont.

WANTED-Cheese makers the c ANTID-Cheese makers the coming season to sell subscriptions to Farm and Dairy, Peterboro, Ont. Good cash commission for each subscription taken. Write Circulation Manager, Farm and Dairy, Peterboro, Ont., for sample copies for your patrons. Samples sent free on application.

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MINE must be as courteous to a man as to a picture, which we are willing to give the benefit of a good light.



# The Ways of Providence

By Agnes Booth

(Continued from last week)

UELLA quickly made the exbill' ge; the unfamiliar "big and an equal sum in notes of smaller denomination were carefully rolled together for their precious board and the sixty-seven dollars which Jabez Whitman would consider solely his,

bek whitman would consider solely his, put in a separate package. The task was hardly accomplished when Jakez drove up the sandy road-way and Mrs. Whitman thrust one of the rolls into the bosom of her dress, bolding the other in her hand. "Well, pa, they've gone," ale re-"Well, pa, they've gone," ale re-

marked nervously as her husband approached.

"And good riddance to the last of them!" muttered Luella from her grassy couch.

"I s'pose they all paid up, fair and

square, Mandy?"

Mr. Whitman's mode of speech was slow and heavy, like his manner of walking. His question was hardly an interrogative, it was more suggestive of a demand.

"Ves of course, they're all nice

"Yes, of course, they're all nice people this year." Mrs. Whitman spoke hurriedly, her manner implying, as it always did in addressing her husband, an apology for speaking at

all.

"You hadn't oughter 'low your mind to dwell on that fifteen dollars that the total state of the third of the third of the third oughter remember that the ways of Proverdunce are inscrewtuble and be resigned to whatever the Lord sends. It's all for His good purpose, you know."

Luella caught an errant butterfly.

you know."

Luella caught an errant butterfly
and confided to its fluttering wings
her disbelief as to the Divine source
of a loss through fraud and cheating,
while Mrs. Whitman, with a shaking
hand, passed the roll of bills to her
husband. He accopted them in his accustomed manner without comment.

"It's all right this time, sixty-seven dollars. Mr. Parker said he'd be
glad to come and stay with us again
next year."

next year

next year."

Mr. Whitman, with the tightly rolled package in his thick fingers, stumped heavily off the barn, growing back over his shoulder:

"It's most twelve o'clock, Mandy, and I s'pose I'll want sunthin' to eat, even if the boarders is gone. They're not the only folks as gets hungry."

Mrs. Whitman started hastily toward the house Levels.

Mrs. Whitman started hastily toward the house. Luella sprang from

toward the house. Linear the ground.

"Don't you hurry so, ma, you've worked on the dead run all summer; it won't hurt pa to wait a few minutes. He can just as well as not, I'm

Mrs. Whitman smiled dispiritedly

Mrs. Whitman similed dispirited,
"Well Luella, the sooner it's ready
the quicker it's over with, that's all,
and I might just as well get it now When Jalez came in at Luella's call his face looked even more forbid-

can his face looked even more feroud-ding than usual.

He helped himself liberally and ate in silence. Presently he wiped his mouth on his shirt-sleeve and pushed

might have wrung mercy from a less stony heart.

"I am su'prised, Mandy," he answered gratingly. "I am su'prised that a woman who is a member of the that a woman who is a member of the church and who had oughter be bring-ing her girl up to a Christian life—" the paused to allow his unfinished re-proof to sink in, adding suddenly: "Mandy, this roll of bills," holding it up before her face, "counts up to a hundred dollars!"

Luclia uttered a startled cry. Mrs. Whitman's hand instinctively ought the bosom of her dress. She had concealed the wrong roll!

The movement was not lost on

Jabez.

"And, Mis' Whitman," he added harsally, "you can hand out that other roul you've got hid in there!"

"Don't you do it, ma!" screamed Luella shrilly. "Pa Whitman, you're the meanest man that ever lived!"

She covered her face with the same of the work of the same of the same

She covered her face with her hands and sobbed aloud as Mrs. Whitman, white to the lips and shaking from head to foot, drew forth the other roll and handed it acress the table to

her husband. He unrolled it carefully, counted it deliberately, spread out the other roll with methodical care, placed the new-ly acquired bills on top, pressing the package down and smoothing it from

ly acquired some package down and smoothing it from end to end with his thick thumb.

"A hundred and sixty-seven dollars!" A hundred and sixty-seven dollars!" A hundred with satisfied solemnity. "Wuth goin 'to Keene to bank that!" Luella dried her eyes indignantly. "Pa Whitman, that hundred dollars is ours—ma's and mine! We've been over two years saving it. We've over over two years say worked awful hard. saving it. We've

mother hopelessly, "you mustn't talk back to your pa!" "Oh, let her go on, Mis' Whitman," "Oh, let her go on, Mis' Whitman," Mr. Whitman advised grimly, "I look for just such sass as that from a young woman brought up as she is."

woman brought up as she is."

Mrs. Whitman reached out a remonstrant hand to the unyielding Luella

Luella.

"Now Miss Luelly," continued Jabes, turning relentlessly to the excited girl, "you can begin savin' all over again, an' see how long it takes you. This money's goin' inter the bank."

Luella made a strong effort for self-

Lucila made a strong effort for self-control.

"The money is ours, pa," she asserted stoutly. "I don't see how you can think it right to take it away from us. It's—it's stealing!"

"Lucila" gasped Mrs. Whitman.

Her father's face grow darker as he glanced into Lucila's unflinching ores.

'The money's goin' inter the bank," "The money's goin' inter the bank." he repeatedly doggedly, "but mebbe this winter, if you reely need sunthin', I'll take some of it out for you." Luella compressed her lips tightly and made no reply. She began clearing away the dishes without again looking at her father, and after an awkward minte or two he moyed

looking at her rather, and after an awkward minute or two he moved heavily out to the barn.

Mrs. Whitman broke into weak,

Mrs. Whitman broke into weak, hysterical sobbling.
"Don't cry, ma, dear," urged Luella, "it isn't worth it." "Luella," her mother whispered in a frightened tone, "did you hear what he said—about the way I'm bringing you up?" "You needn't mind that, ma; you're

not bringing me up to steal, anyway. That's one thing sure!"
"But, Luella, the—the 'honor thy father,' you know, Luella," she be-

father,' you know, Luella," she began crying tiredly.

"Don't worry about it any more,
ma. I honor you, and I'm willing to
honor anybody that's worth honoring.
You go upstairs and lie down and get
a little rest. Pil finish up here.'

Luella went with the weary woman
it the foot of the stairs.

to the foot of the stairs. "Undress, ma, dear, you'll get more rest that way, and I'll call you before he gets back."

he gets back."

She could not bring herself to use anything more personal than the pronoun—she felt that she could never say "pa" again.

She went about her work quietly, but a volcano of wrath raged within logs of the heart.

but a volcano of wrath raged within her girish heart.

"I suppose," she said aloud as she scoured the carving-knife, "that poor ma is up there praying, instead of sleeping-praying to be resigned to shatever the Lord sends!" It was Mr. Whitman's favorite tes-

It was Mr. Whitman's layorite tes-timony in "experience meetings" that he was resigned to whatever the Lord sent, for "the ways of Proverdunce are inscrewtubble and past findin'

Luella vigorously rubbed the towels

Lucila vigorously rubbed the towels between her strong young hands.

"If the Lord sends somebody to take away the money that me and I have honestly carned, then I think the Lord is in pretty poor business!"

It was late when Jabes returne. "I the ate his supper in silence, and as soon as the evening "chores" were failable he want to hed.

soon as the evening "finished he went to bed.

The next day he manifested the same disinclination to talk, and drove away as soon as he had had his noonday meal, returning late and making no explanation of his absence.

This same strange behavior was con-nued for days. He never addressed tinued for days. He never addressed Luella, nor looked at her. If his wife spoke to him he answered in the briefest possible manner.
(To be concluded next week)

...

How to Make a Lawn

Test."

"Sit down, Luella," begged her times of the year. For that reason the A lawn is expected to look attractive



# Easter

aster is coming. The world is made new for you, for me, and for the blade of grass that

raises its bead above the ground.

Out of the barren earth springs new life and the promise of a summer that is to come.

May Easter mean the same to us, and in place of the worries of Life's Winter, may there come joy and bappiness to our weakened spirits.

"I'm goin' to Keene," he announced abruptly.

Mrs. Whitman started apprehensively. A trip to Keene was usually planned days in advance, for it was considered quite a journey.
"To the bank," Jabez

considered quite a purmey.

"To the bank," Jabes added harshly.

Mrs. Whitman put down the cup of tea she was drinking—her hand trembled violently.

"It 'pears, Mis' Whitman," said her husband sternly, "that some of your boarders paid extry!"

Luella cast an agonized look at her mother. Mrs. Whitman paled and faltered—Luella must have made a mistake in counting out the forty-five dollars to put in with the board money! Yes, that was it!

"Yes," she assented, with parched lips and unwilling tongue, "Mr. Parker paid five dollars over. I—I tought you'd be su'prised."

It was a brave attempt, notwithstanding the weakness of its execution, and her plainly evident fright

his chair noisily back from the table. I sweaters and baby socks, and Pro "I'm goin' to Keene," he announced abruptly.

Mrs. Whitman started apprehenders when I'd like to have had it for ourselves. We preise be recorded to the propose when I'd like to have had it for ourselves. We precise be recorded to the propose when I'd like to have had been to be proposed to the proposed to it for ourselves. We've picked berries and cut Christmas greens and sold 'em, and—and done washing! And

'em, and—and done wasning: and it's ours!' "M—m! 'Ours,' is it? Well, Miss Luelly, what did 'we' intend doin' with this triflin' little sum of money?" Luells was too excited to heed the usually hated and dreaded sarcasm "When we get enough we're going to buy Annie Maynard's piano," she sawared steadily. "Her father is

to buy Annie Maynard's piano, and answered steadily, "Her father is going to huy her a grand—this one is an upright."
"M—m! An' you needed a few pennies more, I s'pose?"
"Yes, fifty dollars more. And if you did the right thing by us, Pa Whitman," holding her head erect end looking fearlessly into his eyes, 'you'd make up that much and let us have it now. It will take us anushave it now. It will take us antest."

SANDARD BARBARA BARBARA

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land must be prepared and the seed elected as to give the best results at all seasons.

For a good lawn you must get the very richest of soil. It is impossible to get soil too rich. If the land is natto get son too rien. If the land is nat-urally fertile the proper soil can be made by deep plowing without subsoil-ing. If the land is poor as most land is, the first step is heavily manuring or dressing with commercial fertilizer. On light soils manure is much to be

On light soils manure is much to be preferred to commercial fertilizer, as it not only helps to retain the moisture but is much more enduring.

The land must first be cleared of all roots of trees and weeds as far as possible. The heavy dressing of fertilizer should show he weeds. as possible. The heavy dressing of fertilizer should then be spread on and plowed under. The ground should then be gone over with a harrow, graded, raked, and then the seed sown. Im-mediately after the seeds are sown the ground must again be harrowed and raked so as just to cover the seed. a finishing touch it is well to go over it with a good heavy roller, to make the surface compact and insure con-tact of the seed with the soil.

Where the land is not dry or holds water in pools after rains, it is useless water in pools after rains, it is useless to think of making a lawn without al-tering this condition. Drain tiles should be laid three feet apart, smaller tiles leading into larger main drains, and the whole giving a gradual fall to the lowest portion of the grounds or the natural outlet. in ifformity in the finished surface before the seed is sown is one of the essentials to a per-

CRADING

To insure this, grading is necessary. Where there is no engineer or landscape architect about the best way to scape architect about the best way to do this grading is to drive stakes in the ground and sight from one to an-other by a carpenter's level. The earth can then be moved from the places that are too high and put in the hollows that are too pronounced. This grading is usually done after the land has received its first plowing and har-rowing. Do the grading first, then the plowing, following the plowing with a subsoiler in the same furrow if the subsoil is hardpan.

The next step, is the harrowing, then the clearing of all roots and stones, next the seeding, followed by light harrowing to cover the seed about light harrowing to cover the seed about half an inch; next a second seeding, sowing the seed at right angles to the first, then a second light harrowing, and last a heavy rolling. Besides, having the surface of your lawn perfectly smooth you want to have the grass of a uniform color and

thickness. In cases where the ground is enriched by bringing the top soil from other places it should be put over the entire surface as a top dreather than filling in in patches. dressing

(To be concluded next week)



CUMMER DOWSWELL LIMITED, - Hamilton, Out.
Mention Farm and Dairy when writing.

### A Boy's Reading By E. M. Chapman

Dy E. M. Chapman
The average boy will read; and
the boy who thinks he hates to
read will very likely develop the
taste with a little wise encouragement. The average boy's parent
however, are too often satisfied when
there are thought and the satisfied when
however, are too often satisfied when read; hates to nowever, are too often satisfied when their son shows some fondness for reading in general, and fancy this to be a thing so good in itself that it can be permitted to take its own way without interference. It is true that without interference. It is true that and that in training them we should dictate as little as possible; but a boy's choice in matters of literature boy's choice in matters of literature needs the same generous guidance that wise parents will exert over his choice of food—a guidance which, while re-membering his tastes, will at the same time aim to preserve health and foster growth.

A BOY'S TASTES

What are these tastes of the average what are these tastes of the average boy? Almost always a love of ad-venture, an appreciation of nonsense, a considerable curiosity about life, and an appetite for sentiment which is as real as it is carefully concealed. is as real as it is carefully concealed. Each of these tastes or tendencies is wholesome and represents opportun-ity; and each may also degenerate in-to a means of mischief.

The love of adventure is an expres-

there is always hope for the boy who looks forward to being a pirate and carrying the Jolly Roger through the seven seas—provided that at the same time his mind is making acquaintance with other aspects of life which may finally prove almost as desirable as piracy. A child's nonsense is his



Health and Happiness in Farm Life

The illustration shows two of several ponies raised by Mr. T. Baker, Durham ponies raised by Mr. T. Baker, Durham enjoy riding and driving. The exercise of riding might well be developed to a much greater extent on other farms. See article on page 18, entitled "A Durham Co. Priss Home."

mind's play and safety-valve, which may be developed into a sense of humor that will help to keep him sane, or degenerate into a mere habit of foolish and cruel practical joking. His curiosity may prove a key where-with to unlock stores of wisdom, or a with to unlock stores of wisdom, or a means of purveying base and even vile things to his mind; while his sen-timent may sink to a sentimentality which shall sap his manhood, or be refined into honor and devotion.

DEVELOPING BOY'S TASTES

The development of these tastes may be largely influenced by his reading; and the quality of his reading will be to a considerable extent in the hands of his parents. They will find him craving certain things. If the things be in themselves harmless, they should be supplied in moderation, they should be supplied in moderation, but with a constant effort to make them the best of their kind and to diversify them with other things for which he may have less taste but more need. For instance, a boy's love of adventure may lead him to demand books of that sort as a steady diet. He should be supplied with a line of the standard of the should be supplied with a line of the should be supplied by the should be supplied

these, other books should be suggested and and perhaps required. Parents of average intelligence and resourcefulneses can easily cope with the dime novel and the cheap detective story. These are to be placed under the ban, not because they are positively vile—they usually are not—but because they are ignorant, untrue to life, and generally ridiculous.

The average boy whose father will take pains to read a great book of adventure like "Rolinson Crusoe" with his son will have little difficulty with his son will have little difficulty in convincing him of the superiority of literature to trash. In my own boyhood the highly wrought but otherwise harmless stories of Mayne Reid were much in vogue. A wise mother saw fit, not to forbid them, but to limit their numbers pretty rigidly and to sandwich between them books like Washington Irving's "Astoria," "Life of Columbus," and "Conquest of Granada"—all of them works of historical adventure. It was not long before the hairbreadth escapes and artificial devices of Mayne Reid grew a little ridiculous in the eyes of his devotee; devices of Mayne Reid grew a little ridiculous in the eyes of his devotee; and when a playmate and I began to quote from him in the crises of our small affairs, "A raft, a raft! we shall yet be saved!" the work was practically accomplished. A short time ago a friend of mine was disturbed to find among her boy's !resaurse a number of trashy paper-

treasures a number of trashy paper-covered novels. The boy said that they were the gift of a friend. He had tried to read them in expectation of a feast, but had found them so absurd that he gave over the attempt. His father had been in the habit of reading with him almost from baby-hood, and the boy had unconsciously learned the difference between a sound and a sham story

(To be concluded next week)

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

THE COOK'S CORNER

Recipes for publication are requested.
Inquiries regarding cooking, recipes,
etc.
Household Editor, Farm and Dalry,
Peterboro, Ont.

PLAIN COOKIES.

One cupful of sugar, ½ cupful of butter, 1 egg, ½ cupful of milk, 2 cupfuls of flour. Flavor as desired. One-fourth of the dough may be flavored with lemon or vanilla, ¼ with ½ cupful of cocoanut, one-fourth with one conce of melted chocolate, and ½ with mixed spices. For the spices use one teaspoonful each of ground nutmeg and mace, one-half of cloves and allspice and three of cinnamon.

ALMOND BISCUITS.

One-fourth cupful of sugar, one-fourth cupful of sugar, one-fourth cupful of butter, yolks of two eggs and white of one, two table-spoonfuls of cream or milk, one and one-fourth cupfuls of flour. Roll thin cut into rounds, brush the tops with the egg-white and sprinkle, with one ounce of almonds blanched and chop-med fine.

SHORT BREAD
One-fourth pound of sugar, threefourths pound of butter, one teaspoon
ful of salt and one pound of flour.
Roll about an eighth of an inch thick, cut oblong and crimp the edges with a knife. Sprinkle with sugared car-raway seeds of different colors.

CALVES' FOOT SOUP.

CALVES FOOT SOUP.

Boil 2 pairs calves' feet and 1 shank of ham (rind removed), in 3 or 4 qts. water for 2 hours. Then add 2 sprigs paraley, the same of thyme, a little kitchen herbs, 1 blade of mace, and pepper and salt to taste. Boil 2 hours longer, then set away to cool. When cold, carefully remove all fat from the top and return to the kettle.

OX-TAIL SOUR Cut one or more ox tails into pieces, making the separation at the joints,

and place in a saucepan with I table and I chopped onion. Stir over the fire until it becomes a delicate brown, nre until it becomes a delicate brown, then put into a soup por with 2 qts. cold water. When it boils add 1 stick celery, I root parsley, 2 cloves, 3 peppercorns and scant ½ tablespoon salt. Let simmer 4 hours, then strain. Let cool and remove grease, after which return soup to the kettle, let come to a boil, and serve hot. ...

### Celery for Seasoning

Celery for Seasoning

When celery seed is two years old it will not germinate, therefore the seedsman is glad to sell it by the pound for a low price. These seeds may be used whole, or they may be ground or pounded in a m-trat, and when this home-made product is used, one is at least sure of having an unadulterated celery salt.

By adding a little fine salt to the ground seeds and putting them in a wide-mouthed bottle this mixture may be used in an ordinary salt may be used in an ordinary salt salts. Celery as a seasoning is seep-shale. Celery as a seasoning is seep-shale.

may be used in an ordinary salt shake. Celery as a seasoning is espe-cially good in all chicken cookery, and often chicken salad which is rather tasteless needs only celery salt or chopped dried celery tops added to the seasoning. the seasoning.



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shall He not with Him also freely give us all things? Romans 8, 32.

At this Easter season our minds should be fill of thoughts of God's great love to the fill of thoughts of God's great love the should be fill of thoughts of God's love and more and so the fill of God's love to the members of our own houself in greater love to the members of our own houself of Christianity, during the centuries that have leading the should be should that carnival of the most awful crimes created but little attention. During the great public festivals, which some-times lasted reviews, thousands of people were destroyed, wild beasts, or in unequal combast or the populace, or in unequal combast or moth-for the mere pleasure or the populace. It was a common occurrence or moth-crs to kill their infants. The filial low was but seldom found. More were expected to kill those who injured expected to kill those who injured

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The Upward Look

Easier Thoughts

He that spared not His own Son, but delivered Him up for us all, how shall He not with Him also freely give us all things? Romans 8, 32

At this Easter season our minds should be full of thoughts of God's love we must love Him more of God's love we must love Him more of God's love we must love Him more of God's love we must love hould showld should be full of thoughts of God's love we must love Him more for God's love we must love hould showld should showld should showld should showld should showld should showld should showld showld showld should showld sho red and revenge were condemned and forgiveness of one's enemies was required. The selfish were held up to scorn while the unselfish were praised and promised rich rewards of a spiritual nature. The people were commanded to love God with all their hearts and minds and souls and their hearts and minds and souls and their nearly as themselow. eighbors as themselves.

Christ saw that the people were given

hearts and minds and some and some hearts and minds and some and cheered conceptions as themselves.

Christ saw that the people were given over to selfahness and, therefore, He did not emphasize the giving of carthly blessings as a reward for following Him. It is well that the did not find the selfation of God and His righteousness and all these things shall be added unto you."

The example of Christ's life, and the selfation of God and His righteousness and all these things shall be added unto you."

The example of Christ's life, and the selfation of God and His righteousness and all these things shall be added unto you."

The example of Christ's life, and the selfation of God and His righteousness and all these things shall be added unto you."

The example of Christ's life, and did the people of the selfation of the selfation

### A Durham Co. Prize Home

A comfortable little farm home, in Durham County, Ont., is that of Mr. T. Baker, an illustration of which we publish in this issue. Mr. Baker's home was built over 40 years ago, and has been kept in first-class repair and up-to-date in many ways.

ways.

The ceiling on the first ways.

The ceiling on the first sa kitchen, dining room, living room and parlor on first floor, with a large pantry and one bedroom. The latter room is found to be agreat convenience. On the second floor, are to be found two double bedrooms, three single bedrooms, bath room, and six good roomy closets. The upper story is reached by three bedrooms, bath room, and six good roomy closets. The up-per story is reached by three stairways. There is a solid partition between the men's rooms and the other rooms of the house.

The house is built of brick, and is a solid being bound

The house is built of brick, and is a solid brick house. The kitchen, pantry, lower bedroom and sitting room, and two of the stairways open on to the large commodious veranda. Entrance to the cellar is to be had from the dining room. The cellar is commodious, well light-cd and is divided into three rooms for different nurposes. The cellar floor is

ed and is divided into three rooms for different purposes. The cellar floor is cement. The cellar is also reached from the extraor, through a wide door. There is also a veranda on the south side of the house, not shown in the illustration. the illustraton.

All the rooms are well lighted. There a very convenient summer kitchen and coal and wood shed attached, opening into the proper kitchen. Hard water is conveyed to the summer kitchen. The cistern is on the south side of the house and can be reached from the veranda or platform outside the summer kitchen. It is only five It is only five feet from the house.

A fine lawn surrounds the house,

A fine lawn surrounds the nouse, which in the photo is not shown, the picture having been taken in the ...

Friendship Mrs. M. C. Ellenboro, Roseneath, Ontario

Friendship is indispensable. It is a necessity of our human nature. Oc-casionally you will find a hermit with casionally you will find a hermit with such an abnormal twist in his make-up that he can do without it; but such exceptions are exceedingly race. Every wholesome and rightly consti-tuted human being needs the touch and uplift and inspiration of social and uplift and inspiration of social sympathy. We are so made that we sympathy. sympathy. We are so made that we must have some one to whom we can tell our troubles and with whom we can share our joy; some one to whom we can commit our secrets, and open our hearts; someone to whom we can go in the dark and cloudy day for go in the dark and council and sunshine; some one of council and sunshine; some one of bind and congenial spirit to tell us of our faults in an accent of love, and to commend without flattery whatever in us is praise worthy; some one we can trust absolutely; and who will not yield like a tottering fence or bowing wall when we lean upon her. Here, I think, are a few characteristics of fine friend.

a fine friend.

1st. She is always accessible. You will never find "No admission," written upon her door. For you, at least, she is always at home; her heart and her home are always open. She does not keen you waiting to the anteher home are always open. She does not keep you waiting in the antercom or shivering in the hall, but veloomes you at once to her fireside and her love. If she stands you off, if she is cold and ebremonious about receiving you, it is evidence enough that she is not your triend. Friendship means always the most steady and warm, and unrestrained intimacy.

2nd. The true friend is sympathetic. When she comes into your presence.

2nd. The true friend is sympathetic.

When she comes into your presence also maintained to the come of the come of



Comfortable farm home of Thomas Baker, Durham Co., Ont. This home is over 40 years old

er harsh. Instead of looking a' your faults and failings and shortcomags, she looks at your good qualities and puts the emphass, upon them. See always sees what is best in you, and, oven when you are undemably wrong, her love is incentive, and seeks find excuses and mitigating circumstances. She is compassionate and forgiving, overflowing will make sacrifices on your behalf. She will put herself out to help you up the hill, and forego her own comfort to promote yours. The woman who is not willing to aid you in time of trouble,

and when the road is rough; the woand when the road is rough; the wo-man who is not too selfish to give you a lift, when you are down, or to hold man who is not too selfish to give you a lift, when you are down, or to hold you up when your feet are slipping, or to hasten to your help when you read to hasten to your help when you see struggling in the breakers—is not see that you have the hold of his royal father, such as goodwill of his royal father, such as the conforts and luxuries of the offers of Ziph, exposed himself to had one of Ziph, exposed himself to had the hold of t

summer weather, but when the frost appears and the anow begins to fall, they leave us for a warmer climate. For my part, I like the friend that stays with me in the winter, when the trees are bare, when the cold is sharp and piercing, and when the north wind of adversity cuts in the barn the mice will be plentifue, As long as there is wheat in the barn the mice will be plentifue, and, behold, the mice are mise. A good deal of this world's friendship is like that. It stays with use of long as there is something to be gained, butterns its back in the hour of misfortune. It dances attendance upon us

turns its back in the hour of misfor-tune. It dances sttendance upon us when the sky is bright, but flees away when the cleuds gather.

It is the another name for false-hood and hypocrisy. A true friend is one whose grasp tightens when hings go against me. Who will cling to me when I am down, whose heart will know no coldness when circum-stances compelme to wear the shabby will know no coldness when circumstances compel me to wear the shabby coat, who will share with me my reverses, and be partaker of my woes. No other friend is worthy of the name.

(To be concluded next week)

... Teach Political Morality

Teach Political Morality
Why can not political morality be
taught in the public schools?
If the little children in the kindergartens and in the primary schools
were taught how disreputable it is to
stuff a ballot-box or to lay polluted
lands on the sacred franchise, would
land to the propel is ten
times meaner to of the people is ten
times meaner to of the people is ten
times meaner to of the people is ten
times meaner and flow were taught to
regard those guilty were taught to
regard those guilty when an act as
unworthy the respect purch
The schoolroom is the proper place
The schoolroom is the proper place
The schoolroom is the proper place

honesty in the next generation?

The schoolroom is the proper place
to teach political morality, for in the
boys and girls of today lie the political hope and honesty of tomorrow.

For Husbands Only

There are a thousand ways which any well-disposed woman might point out to you that would enjour wife's eyes which is the little point wife's eyes which is the little point wife's happiness. Do not belittle her opin-

nappness. Do not benetic ner opinions.

You do not have to accept them as your own unless you like, but you can at least encourage her to use her intelligence, and before lower with the idea that she is just as the with the idea that she is just as the worth while, now she is "married and done for," as some persons criedwild glay, it, as she was before her of a moment that she is done for. The she was the she her that there are ten reasons now where there was one before for her even existing.

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men a face a life, to they p ideals. So an and w in a p are n so; bu 1 in t that p traced sult o of whi culture faith i farmin

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families is one

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### Reseases and Resease and Res OUR HOME CLUB

THE SON'S IDEALS
"Dot's" letter in the Home Club
February 24 is but more evidence of
that stubborn fact that there are two

"Dot's" letter in the Home Club February 24 is but more evidence of that stubborn fact that there are two sides to a question and that much rests with one's particular point of view. No good purpose would be gained by replying to "Dot' in a controversial manner on the points in which we differ, and since space is at a premium in this department, the 'Son' hereby allows hmself to be drawn out, as requested, on that question of how to manage the work on the farm so that work of the thing of the t

offers life and health second to no other business.

The possibilities of the Ontario farm are unhounded. Improved stock, good seed, suitable crops, proper cultivation, these things mixed with a well transd and a well interest may be a suitable crops that the transdard and a well interest which will be a suitable of the suitable suita our ideal. Ideats are necessary. In so far as we set ourselves worthy ideals, and in so far as we strive to measure up to these, will depend our success and the happiness of the life we live.—"The Son."

THE WIFE SHOULD KEEP THE BOOKS The WIFE SHOULD KEEF THE BOOKS.
A set of books, carefully kept, is
the only proper solution to this family financial problem, no matter how
large or how small the income. Our
values may be different, but proportion must be observed in all expendi-

Careless and wasteful financial methods are no more respectable in families than in banks. Carelessness is one form of dismostry and for all such deviations from the second state of the second state of the second state of the second state of the second s Careless and wasteful

proper heads and in which we balance up all accounts.

A meeting, say once a month, of the finance committee of the household, constituted of husband and wife, or of whatever combination of or whatever combination and many be running the finances of which were combination and the same and t

### SPECIAL SPRING FASHIONS

Realizing the great interest that our readers take in the new spring styles, we have arranged to give special attention to the pattern department of Farm and Dairy for the next two or three weeks. Look over the illustrations in the fashion department and send your orders early. If you do not see the style illustrated, thou would like the property of the property o 

HOUSE GOWN 6183.



The one-piece house gown is the one that active women are sure to require. The waist and skirt being joined by means of a belt, there is no possibility of annoying separation and the gown can and the gown can quite easily be slipped on and off. This one is made in shirt waist style and closed at the left of the front. Material required for medium size is 8% yds. 24, 7% yds. 32 or 6 yds. 44 in. wide.

wide.

The pattern is cut for a 32, 34, 36, 38, 40 and 42 inch bust, and will be mailed on receipt of 10 cts.

GIRL'S COSTUME 6607.



Young girls are
wearing many
dresses made loose blouses over
plaited skirts. This
one is quite novel
and attractive. Also
it is so easy to
make that busy
mothers will find it
a boon.

mothers will find it a boon.

Material required for medium size is 6% yds. 24, 5 yds. 27, 4% yds. 33 or 2% yds. 44 n. wide.

The p\_ttern is cut for 8, 10, 12 and 14 yrs and will be mailed on receipt of 10 cts.

CHILD'S DRESS WITH BLOOMERS 6605.



Such dresses as this cut with waist and skirt portions in one are much liked for the little girls and are in de mand at this season when washable ma-terials are being

terials are being made up.
Material required for medium size (4 yrs.) is 5 yds. 24 or 27, 3% yds. 32 or 3 yds. 44 in. wide with % yd. 27 for trimming.

The pattern is cut for children of 2, 4 and 6 yrs. and will be mailed on receipt of 10 cts.

MISSES' PRINCESS PETTICOAT 6569



SS PETTICOAT 550
Such undergarments as this are
needed by every girl.
There is no built over
the hips or at the
waist line and the
dunne prevides pretdunne prevides pretat the lower portion.
Material required
for medium size is
3½ y 35, 3½ 834 4i m
wide with 10½ yea set
mixed with 10½ yea set
mixed years and 2½ y 436 of beading, for 14 yr size.
The pattern is
and 2½ yad of beading, for 14 yr size.
The pattern is
at 41
and 15 yrs., and will
be mailed on receipt
of 10 etc.

MISSES' LONG COAT 6469.



The coat made with plaitings at the sides makes a favorite feature of the season and is graceful and attractive. This one is simple and grilish and can be made from any seasonable material.

terial.

Material required for 16 yr. size is 7½ yds. 27, 4½ yds. 44 or 4 yds. 52 in. wide for full length; 6½ yds. 27, 4 yds. 44 or 3½ yds. 52 in. wide for ½ length.

The pattern is cut for girls of 14 and 15 yrs. and will be madd on receipt of 10 cts.

-



ROUND YOKE WAIST 6606. E WAIST 666.

A pretty what like this is available at all seasons but especially so just now when bordered materials and flouncings are to be met at every turn. The bretelles are made with straight edges and are especially adapted to such materials, but they can be trimmed in any way that

they can be trimmed in any way that may suit the fancy. Material required for medium size is 2½, yds. 21, 2½, yds. 21 cm vide with 2 yds. of the wide with 2 yds. of the yds. 21, yds. of bands in the yds. 1½, yds. of bands in the yds. 1½, yds. of bands 21 cm, and will be mailed on receipt of 10 cts.

MISSES' TUCKED OVER BLOUSE 6604.



No garment is prettier than the over blouse. Just pretiter than the received by the provided by

on receipt of 10 cts.

MISSES' PLAITED SKIRT 6603.



TED SKIRT 600.

The straight plait of skirt is always becoming to young girls. It is especially adapted to bordered materials and to flouncing and is much in demand. Such a skirt as this one can either be finished with a plain hem or be trimmed with banding in any way.

with banding in anyway.

Material required for 16 yr. is 6 yds.

24 or 27, 4% yds. 32 or 3% yds. 44 in or 37, yds. 45 in.

wide.
The pattern is cut for girls of 14 and 16 yrs., and will be mailed on receipt of 10 cts.

PRINCESS SLIP 6608



S SLIP 6698.

The princess slip is almost a necessity of up-to-date dress., for whether a princess gown is worn or the separation of the s

CORSET COVER WITH PEPLUM 6499.



CORSET COVER WITH PEPLIUM sess.

Corset covers that are embroidered by hand are the daintiest of all. This one shows a simple yet on the control of the co

COMBINATION UNDER GARMENT



DER GARMENT SILE
Snug fitting underwear is absolutely
essential to styles and such as
garmen as this reduces bulk and
means perfect comfort. It can be
made from nainsook
or batiste or the
heavier longeloth,
and it can be
trimmed with embroidery or with embroidery or same.

trimmed with embroidery or with moroidery or with frills of the same. If the same was a second of the same was a second o



as and so men outs, and will be mailed on receipt of 10 cts.

COMBINATION CORSET COVER AND KNICKERBOCKERS \$225.

Close fitting gowns have brought the demand for close fitting combination are ments of various sorts are being extensively worn. This one combines a closely fitted corset bookers that mean absolute freedom from bulk and is misfactory from the standpoint of comfort.

from bulk and is entered to the content of the cont

Deering

WM. SLAGHT.

### HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Frieslan Association, all of whose members of the graders of the paper. Members of the radders of the paper. Members of the paper of the paper of the paper items of incident to Holstein breeders for publication in this column.

### GOSSIP

GLEN BUELL HOLSTEINS TO BE SOLD GLEN BUELL HOLSFEINS TO BE SOLD
At Glen Buell, on April 7th, the entire
herd of Holstein-Priesal eattle, at "Maple
Glen Stock Farm," ill, be disposed of
without reserve, as the signing to dispose
Alberta. This sale will affect the sale of the conline of a life time, as in it will be be and
male of both sexes of excellent breeding,
viz., Inka Sylvia De Kol with a record of
viz., Inka Sylvia De Kol with a record of
viz., Inka Sylvia De Kol with a record of

BE PREPARED FOR THE HARVEST

WITH THE RIGHT MACHINE

You cannot afford to run any risk of delay at barrest time. Every minute or when the interior is ripe for cutting. Every minute of smooth, reads, uninterest when the interior is read to the control of the control of

uarely
Is it going to permit you to get all the profits from your acres. If it is not—now is
time to choose the machine that will. Because you are going to be busier every day

from now on.

We want you to take proper time to make your selection because we know if you do you'll want a Decring. It's one of the best machines for your use. It's built to meet the outditions encountered on Canadra and the property of the property of

Deering line comprises—
Harvesting Machines, Binder Twine, Mowers, Tedders, Hay Rakes and Side Delivery Rakes, Hay Loaders, Disk, Shoe and Hoe Drills, Cultivators, Seeders, Smoothing, Spring Tooth and Disk Harrows, Land Rollers, American Deering agents also handle faceline Engines, Cream Separators, Hay Presses, Wagens, Sleighs and Manure

Spreaders.

Call on the local agent for catalogue and particulars on any Deering machine or implement, or write the International Harvester Company of America at the nearest branch house named below:

AUCTION SALE

HOLSTEIN-FRIESIAN CATTLE WEDNESDAY, MARCH 30th, 1910

WEDNESDAY, MARCH 30th, 1910—

Eighteen females and it bulks. Maple Herd represents esveral of the feed of the control of the feed of the f

CANADIAN BRANCHES: Brandon, Cal-gary, Edmonton, Hamilton, London, Mon-treal, Ottawa, Regina, Saskatoon, St. John,

I-H-C LINE

INTERNATION AT

HARVESTER

AMERICA

CHICAGO U S A

COMPANY OF

innipeg, Yorkton

over 26 lbs. of butter in 7 days, made from a % udder, which we believe is the largest record ever made under smilar stances. Her dam was Inka Syvia, that in 1897 held the world's record for a 33-3-4 stances. Her dam was Inka Syvia, that in 1897 held the world's record for a 33-4 stances. Her dam was Inka Syvia, that in 1897 held the world's record for a 33-4 stances which are the smile of the was also a champion and range of the was also a champion and sminer at Toronto and Ottawa fairs, and was the Garmen Sylvia, that also won the \$150 test Garmen Sylvia, that also wo over 26 lbs. of butter in 7 days, made from other high record cow is Rooney Bell 2nd, with a 26.73 lbs. test, in 7 days,

and 100 lbs. 30 days' test, and over % lbs.

and 100 lbs. 30 days' test, and over % lbs.

anith in one day. These are the two largest control of the second in public sale in Canada, ever placed in public sale in Canada, or the second in Canada to the second in Canada to the second in Canada to the second in Canada the second in Canada the second in t

the hammer. Remember the date and place, April 7th (Jen Buell, Ort., also that the B. & W. train will leave Breckville at 9,30 a.m., letting intending passengers off at the farm. The train from Westport will also stop at the farm in mothing, and each train stops on returning. Lunch will be served.—G.

FREE SAMPLE OF AMATITE.

Many Farm and Dairy readers may not know that the makers of Amatite Roofing distribute free samples for the information of prospective purchasers of the sample of the property of the sample of the samp

"Farm and Dairy" has been a real friend to me during past years—a friend that has benefitted me more probably than any other.—John W. Toess, Alberta.

WINDMILL every five feet apart and double braced Grain Grinders Pumps Tanks Gas and Gasoline Engines Concrete Mixers Write for Catalogues GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA WINNIPEG, MAN.

The Canadian Airmotor Is the only Free POWER

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

NEVER KICKS OR QUITS Ontario Wind Engine & Pump Co., Ltd. TORONTO

# NORTHERN ONTARIO

The Forest and Mineral Wealth of Northern Ontario has attracted many people from all parts of the civilized world.

One-ninth of the world's reported output of Silver in 1908 was taken from Ontario mines.

New discoveries of undoubted rich-ness are being constantly reported from sections far distant from the far-famed Gobalt. Yet a more certain re-ward is insured to the Settler who ac-quires for himself

160 ACRES OF THE RICH ACRICUL-TURAL LANDS

now open for settlement and made ac-cessible through the construction of Railways and Colonization Roads.

THE FERTILITY OF THE SOIL IS

UNSURPASSED

UNSUMPASSED

The Timber is in demand at a rising price. Mining, Railway and Coloniz ation Road convention, Lumbering, etc., afford work bundance trace, afford work bundance trace of those who have not the bundance trace with the second provide a market for farm produce at prices unequalled anywhere duce at prices unequalled anywhere duce at prices unequalled anywhere. Cochrane, the Terminus of the T. &.
O. Ry., on the G.T.P. Transcontinental
Ralway, now under construction, is in
the same latitude as the southern part
of Manitoba, and 800 miles nearer the

scanoard.

That the experimental stage is past is clearly demonstrated. The country is rapidly filling up with Settlers from many of the other Provincs, the United States and Europe.

For information as to Terms of Sale. Homestead Regulations and for Special Colonization Rates to Settlers and for Settlers' Effects, write to:

D. SUTHERLAND The Director of Colonization PARLIAMENT BUILDINGS, TORONTO HON. J. S. DUFF

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AUCTIONEERS: W. Almas, Brantford and J. Wigg, Cayuga

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### MARKET REVIEW AND FORECAST

Toronto, Monday, March 21st. — There a certain amount of disquictude in re-stant to the threatened tariff war between a constant of the const is a certain amount of disquistated in regard to the threatened tariff war between the United States and Canada, but the United States stands to lose more than Canada, and there is much likelihood of our neighbors receding to a safer position than the one that they are occupying. The Rank of England rate has been addressed to the control of the cont 51/2 per cent.

### WHEAT

Rumors of heavy damage by frost to the crop in Southern Russia, also in Illin-als and Kansas, seem to be well authen-ficated, and Chicago buyers are purchasteated, and Chicago buyers are arrectioning September futures in large quantities. At last advices May wheat closed in Chicago at \$1.12; July, \$1.07, and September options, \$1.39\cdots. In all the continental exercises a supersymmetric continuous and the conti

### COARSE GRAINS

COARSE GRAINS
Deliveries of grain are still somewhat hindered by bad roads, and the market is quiet. C. W. oats, No. 2, are quoted at \$5c; No. 3, 46c, on track lake ports; Ontarios, No. 2 white, 36c; No. 3, 56c; and Barley, No. 2, 56c; No. 3, 48c to 49c outside; rye, 66c to 69c; buckwheat, 51c to 55c; peas, 55c a bushel.

In Montreal the market for all classes of grain is quiet; the following prices are of grains and the prices are the

POTATOES AND BEANS

POTATORS AND BEANS
Potatoes still continue to be very pinniful on the market, and they are quoted at 40e to 45e a bag in car 10ets, and at 56e to 56e a bag in car 10ets, and at 56e to 56e a bag out of store. A large quantity are being ahipped to the United States, both from Ontario and the lower provinces. On the farmers' market potatoes, both from Ontario and the lower provinces. On the farmers' market potatoes are supported by the farmer of the store of the farmer and the control of the farmer and the farmer are quoted at \$1.56 a bag. In Montreal primes are quoted at \$1.56 a bashel.

### HAY AND STRAW

MAY AND STRAW
Owing to the well-nigh prohibitive duty
of 25 per cent. the trade with the
United States is likely to be seriously
checked, if not killed altogether, if the
Payne tariff comes into force. During the
past winter the trade has been splendid,
and it will be a very considerable setback to shippers should the tariff wall
back to shippers should the tariff wall
ing to the state of the roads, and partly
to the home needs of the farmers, is dull,
No. 1 timothy is quoted at \$44 to \$15, and 

### MILL FEEDS

Prices rule steady as follows: Manitoba bran, \$22; Manitoba shorts, \$23 a ton;

# WITHOUT OIL SAVES 75% OF YOUR PAINT MONEY

Send for Catalogue and Price List THE POWDR PAIN' CO., TORONTO

EGGS AND POULTRY

EGGS AND POULTS

EGGS A

### DAIRY PRODUCTS

DAIRY PRODUCTS

Prices are stiffening in the butter market from no conceivable cause, as apparently supplies are plentiful. The following current prices, however, tell their form the prins, 28c to 30c, particles (Teamers prins, 28c to 30c, particles, 30c, part

a lb.

In Montreal creamery butter is quoted
at 26½c to 27½c; Manitoba dairy, 18c to
20c; western dairy, 22c to 23c; and storage

20c; western dairy, 22c to 23c; and storage butter, 21c a lb.

Local quotations for cheese are 13c for large and 13%c for twins. In Montreal white cheese are quoted at 12%c to 13c, and coloured at 12%c a lb.

### HIDES

Local quotations for hides are as follows: No. 1, steers and cows, 11½c a lb; No. 2, 11c a lb; call skins, 15c to 15c a lb; horse hides, first quality, \$2.75; sheep skins, 95c to \$1; horse hair, 32c a lb; tallow, 5½c to 5½c a lb.

### SEED PRICES

SEED PRICES
Seed prices remain unchanged from last week's quotations; alsike, No. 1, being quoted at 86 to 8625; No. 2, 8525; No. 3, 8475 to 87, not 97, not 97, not 98, not 9

### HORSE MARKETS

HORSE MARKETS

The local market has been somewhat quiet during the past week, but the demand from the Northwest is still active, although not as good as for several preceding weeks. Many car loads of heavy draft animals are, however, being shipped to sewtern buyers. Farmers throughout the province also are beginning to lock worker preceding the province also are beginning to lock worker preceding the province also are beginning to lock work. Prices work. Prices, \$200 to \$200; expressers, \$175 to \$250; agricultural horses, \$150 to \$250; serviceably sound horses, \$50 to \$100.

LIVE STOOK

### LIVE STOCK

Trade in live stock has been very ac-tive throughout the week, and receipts of cattle have been heavy. Prices are not declining, however, and hogs are still ad-vancing in price with no signs of a slump. The scarcity in hogs is not con-med to Canada and the United States. It

slump. The searcity in hogs is not confined to Canada and the United States. It is being felt seriously in Britain, where Chinese rice-fed hogs to repenish the market. No less than 700 carcases arrived in England last week. The meat is said to be quite the equal in flavor of the home bred production.

Export cattle, choice, 85 to 84.75; medium, 85 to 84.75; bulls, 84 to 85 a cwt. Butchers' cattle-Choice, 85.0 to 85; medium, 85 to 85.0; cofficiary, 84.00 to 85.0; cofficiary, 84.00 to 85.0; cofficiary, 84.00 to 84.0; medium, 84 to 84.0; cofficiary, 84.00 to 84.0; medium, 84 to 84.0; cofficiary, 84.00 to 84.0; medium, 84 to 84.0; cofficiary, 84.00 to 85.0; cofficiary, 85.0 to 85.0; cofficiary, 85.0 to 85.0; cofficiary, 85.0 to 85.0; cofficiary, 85.0; cofficiary

Hogs-f.o.b. \$9.40; fed and watered, \$9.75.

Horse-f.o.b. 89.40; fed and watered, 89.75.
In Montreal packers are paying \$15.50; for live hogs weiged off the case, and dressed hogs are selling at \$14 a. ext. The Trade. Builetin's London correspondent says: "Canadian bacon, 72 to 75s."

An alarming feature of the cattle trade is that all central Europe is short of beef cattle and Japan also, which has to trust almost entirely to foreign importations, shows signs of becoming a factor in the causes which make for high prices, by reason of an ever-increasing demand for beef cattle.

### MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montgeal, Saturday, March 1914.

Montgeal, Saturday, March 1914.

have to record another advance in price where to record another advance in price stable as \$10.50 a cvt, weighted for the stable paid here this week for selected lots. This price establishes another high level mark in the history of the trade here. The receipts continue light and so long as the present demand continues we can look of the stable stable in prices.

To be a supplied to the stable stable stable stable and the stable stable

### EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE Montreal. Saturday, March 13. — The market for cheese is quiet and stead, with very little doing owing to the searcity of supplies. Cable advices from the other side indicate a strong market there will a good demand at full prices. There will a good demand at full prices. There will be good continues to command a premium over colored of 1s to 2s a cwt., equal to fully 3/s a lb. The few cheese remaining here unsold are practically all move them at anything like a reasonable price. A few lines could be picked up at about 13/sc a lb, but the general asking price is 15/sc a lb.

The second of the second of the second price is 15/sc a lb.

The second of the se

The feature was been the general advance in the procession been the general advance in the procession along this winter that there would not along this winter that there would not along this winter that there would not be the case. There is a decided searcity of croamery butter on this market, specially of fines. There is a decided searcity of croamery butter on this market, specially of most put of the procession of the p all the way from 25c to 25cc. at a resulter creamery, with other grade quoted at from 27c to 27% c a lb. The factories are only beginning to open, and we will not have fresh made butter in any quantity for two or three weeks eye, so that no refer to the contract of the

### GOSSIP

CEMENT SHOW AND EXHIBITION

CEMENT SHOW AND EXHIBITION

The cement show and convention to be held at London, Ontario, March 29th to April 1st, will be of great interest and profit to all who can spare the time to attend. Reduced rates have been obtained to the show the state of the show the state of the show the state of the show and convention is free. No one who is at all interested in the use of cement should miss this opportunity. Different kinds of machinery used in the manufacture of cement in all its different forms of bricks of machinery used in the manufacture of cement in all its different forms of bricks and the should make the should make the should make a special effort to attend. Remember the dates. March 29th to April 1st. Information will be promptly given by applying to A. M. Hunt, Lendon, Ont.

I think Farm and Dairy is a journal that should be in every farmer's home. —George H. Oakes, Norfolk Co., Ont.



# Positions for Young Men

The TRADERS BANK OF CANADA is open to receive applications from fifty well-educated youths of good morals and manners between the ages of sixteen and twenty years.

Applicants should enclose testimonials from their present or former High School teachers and from other gentlemen who know them, a certificate from their family physician as to health and heredity, and a copy of a recent photograph.

Address applications to THE SUPERINTENDENT,

### THE TRADERS BANK OF CANADA

TORONTO, ONT. 124

MORE HOLSTEIN-FRIESIAN COWS AC-CEPTED IN THE RECORD OF PERFORMANCE

CEPTED IN THE RECORD OF PERFORMANCE MAY Echo Pieterfje (4956), four year old class, 1792; bbs. milk and 382; bbs. fat in 355 days; syerage per cent of fat, 356. Bello Bc Kol Quiezo Liver (1998), bbs. fat in 356 days; syerage per cent of fat, 356. Bello Bc Kol Quiezo Liver (1998), bbs. fat in 346 days; swerage per cent, of fat, 320, Owned by H. Bollert, Cassel, Ont. Maple Grove Bello End, (4569), three year old class, 1594, 75 bbs. milk and 4952 lbs. fat in 356 days; average per cent, of fat, 277, Owned by B. Lemon, Lynden, Ont. Spotted Lady De Kol (8118) mature class,

Renew your subscription now.

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

GARTON'S REGENERATED ABUNDANCE seed cats. Had particularly good crop in 1909 from imported seed.—W. W. Bal-lantyne, Stratford, Ont. Phone.

WANTED TO BUY-One young pure bred Duroc-Jersey boar pig. Also wanted from some first class breeder in vicinity of Cowansville, Que, one pure bred Ches-ter White boar, one Poland China boar and one Tamworth boar. Send prices and age to Circulation Manager, Farm and Dairy, Peterboro, Ont.



Build Concrete Silos

Any size with the London Adjustable Silo

from the corn cats the steel, and

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310 once built will last free gase. Cote less to built than steel silos, and there
is absolutely no wast of corn. Thousands of farmers testify to the merits of con
Membriery, Tell are considered. We manufacture a cruptlet lime of Concrete

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

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

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

RIVERVIEW HERD FIVE ALE. 2 Bull Calves, sired by Sir Aagrie Beets Segis, son of King Segis, world's greatest 5 year old sire, dam Aag-world's greatest 5 year old sire, dam Aag-year old—29.36 lbs. butter 7 calves a 20 lb. 2 year old, and 23 lb. 4 year old. Price reasonable considering breeding.

P. J. SALLEY Lachine Rapids, Que.

### NORTH STAR HOLSTEINS FOR SALE

Bulls ready for service, out of high test-ing A.R.O. dams, sired by Count Henger-veld De Kol, a son of Sara Jewel Henger-veid 3rd, the highest tested, (30.38), high-est priced cow ever in Canada. Also a few females in calf to same bull. ETF J. W. STEWART, Lyn, Ont.

LAKEVIEW HOLSTEINS

LAKEVIEW HOLSTEINS
One bull rendy for service and a few
ready abortly. All sired by Count Hengerveld Payne De Kol. a son of Pietertle
even to the property of the County of the County
like dam, Grace Payne 2nd (28.30 lbs. butlike dam, Grace Payne 2nd (28.30 lbs. butlike dam, Grace Payne 2nd (28.30 lbs. butPayne, 2nd Homestend, butcords with 35.50 lbs. butter in 7 days, fat
averaging 5,8 per cent. Visitors met at
Hamilton, C. M. County of the County
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Payne, 2nd Real Rendered, Ont. 1.

E. F. OSLER, Bronte, Ont.

GLENSPRINGS HOLSTEINS ONE BULL CALP, three months old, from a dam that gave 12.70 lbs. last of the control of the cont

E. B. MALLORY, Frankford, Ont.

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Offers for sale young Bulls sired by a son of the highest record cow ever owned in Canada

in Canada.

SARA JEWEL HENGERVELD 3RD,
A. R. O. 30.39 lbs. butter in 7 days, 12137
lbs. in 30 days. These bulls are all from official record dams, some of them from official record dams, some of them from official record damphers of "Count De Kol Pietertie Paul," one out of a daughter of "Brightest Canary."

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THE SUMMER HILL HEAD OF HOLSTEINS In admirer some wonderful Records.

In making some wonderful Records.

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Canadian bred butter champion 3 year old of Canada, for yearly production. We not seen that promise to be just produce once that promise to be just produce once that promise to the full produce of the produce of the

ed bull.

Come and make your selections AT
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Trains met at Hamilton if advised. D. C. FLATT & SON, Millgrove, Ont

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HILL-CREST HOLSTEINS Bull calves fit to head any herd for a full calves fit to head any herd for a full calves fit to head any herd for a full calves from the full calves from the full calves from you for the full calves from you for the full calves from you for the full calves from the full calves fro

G. A. BRETHEN, Norwood, Ont.

FOR SALE



E-4-21-10

Holstein bull, Queen's Tasco
De Kol (reg.) 4 years old, provemilking dam. Selling to
milking dam. Selling to
hange herd bull. Price stife.
Never beaten in show ring by
animal of his age. Shown frequently.

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HOMESTEAD HERD OF HOLSTEINS Present offering—bull calves from hish record cows and Dutchland Colantha Sir Abbekerk (Imp), whose dam and sire's dam average 31.83 lbs. butter in 7 days. Write for particulars.

EDMUND LAIDLAW & SONS Aylmer West, Ont. Box 254

Officer SOUNNYDALE
Officer Sound Sou

A. D. FOSTER, Bloomfield, Ont.

### LYNDEN HOLSTEINS

Herd headed by Korndyke Teake No 5809. FOR SALE.—I yearling bull, dan Lulu Glaser No. 5999, 12499.987 bs. milk 453.173 bs. fat. 250 days, 3.70 per cent. fat Also bull calves and females all ages.

SAMUE LEMON Lynden.

FOR SALE--HOLSTEIN BULL CALF Jucen Netherland's Faforit the 2nd Feb. 1st, 1910. Nicely marked; si nearest dams average 23 lbs. but even days. Dam gave as a 3-year-60 lbs. milk a day for two mont d dam gave as 6-year-old over 70 a day for three months, and 13 milk in ten months. Price of calf papers.

EDGER DENNIS, Newmarket, Ont.

### AYRSHIRES SPRINGBROOK AYRSHIRES

Are large producers of milk, testing high in butter fat. Young stock for sale. Or-ders booked for calves of 1999, male and female. Prices right. Write or call on 3-24-10 W. F. STEPHEN, Huntingdon, Que.

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From one month to two years old; all bred from large, good-milking stock. Also Torkshire pigs. Apply to DANIEL WATT OR TO HON. W. OWENS, Manager, Proprietor, g.5-19-10 Riverside Farm, Montebello, Que.

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BARGAIN SALE FOR THIRTY DAYS
All right good ones, from one week tr
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and compared to the second of Perform
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54 lbs. and upwards per day on
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chance at reduced prices. Also two yearling bulls in for service.

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Imported and home bred stock of all ages for sale. Stock shown with great ccess at all the leading fairs

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Imported and home bred, are of the
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been selected for production. THEY
roung built dropped this fail sired by
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a well and they come and see
for sale writer come and see

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

13:12.25 lbs. milk and 473.1285 lbs. fat in 332 days; average per cent. of fat, 5.37. Owned by Samuel Lemon, Lynden, Ont. Evangeline 2nd (4594), mature class. 10-20 lbs. milk and 373.10 lbs. fat in 300 days; and 13-20 lbs. fat in 300 days; and 15-20 lbs. fat in 300 days; and 15-20 lbs. fat in 300 days; on 15-

ons, Secretary.

GRADE HOLSTEIN SELLS FOR \$162.00 GRADE HOLSTEIN SELLS FOR SILES
The auction sale of grade Hoistein acttle owned by Mr. E. Laidlaw & Son, Aylmer West, resulted in some very satisfactory prices The highest price was
paid for Mary, a four-year-old grade, she
bringing Sici. Mr. McVicar of Harrietsville, who purchased her, also hought
ville, who purchased her, also hought
tween the ages of two and the cost her
tween the ages of two and the cost her
ine in number—sold for an average of
Si20 each. Four yearling hefers brought
an average of \$12.75 each. One calf six



Cores Strained Pully Ankles, Lymbangitie, Pell Evil, Fishink, Sores, Wire Cuit, British Find Food, Fishink, Sores, Wire Cuit, British Find Food, Strainer, Strainer, and Allers Food, Strainer, and Allers Food, Strainer, and Strainer, and Strainer, and Strainer, and Strainer, and Strainer, and Allers Food, Rev. (In anklind a fee bedieved, Allers Food, Rev. (In anklind a fee), and the strainer of the strai

Dr. Bell's Veterinary Medical Wonder cures inflammation of lungs, bowels and kidneys. The soth century wonder. Agents wanted in every county. Write for a free trial \$\si\$ bottle. This offer only good for 60 days. Limited to 500 bottles. DR. BELL, V.S., Kingston, Ont.

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Is the home of most of the is the home of most of the coveted honors at the leading eastern Exhibitions, including first prize old and young herd. FOR SALE a few Choice Young

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

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E-5-26-10

Ayrahires, Cydesdales and Yorksbires If in need of good stock, write for prices which are always reasonable,

W. F. KAY BURNSIDE AYRSHIRES

Having disposed of my 1990 importation.

Having disposed of my 1990 importation for intend leaving about March 1st, for intend leaving about March 1st, for intended to make a muniper of bulls then for the first state of th

# MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE.

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

CHESTER PIGS

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

J. H. M. PARKER Willowdale Stock Farm, Lennoxville, Que Importer

months old brought \$55, and six calves averaged \$82.16 each. The pure-bred yearling bulls sold from \$82 to \$155 each. As far as we have heard, this is a record sale for grade cattle, and it is pretty good proof of the superiority of Holstein cattle. It also shows the outcome of the use of the shows the outcome of the use of the large sale of the shows the outcome of the use of the shows the outcome. The following is a list of the shows the outcome of the use of the shows th Mary, 4 years old.
Camile, 8 years old.
Molly Bawn, 8 years old.
Olive, 14 years old.
Olive 2nd, 5 years old.
Olive 2nd, 5 years old.
Blackneck 2nd, 5 years old.
Blackneck 4th, 2 years old.
Blackneck 5th, 6 years old. 103.00 100.00 96.00 Blackneck 5th, 6 months old. Blackneck 5th, 6 months old.
Daisy, 4 years old
Seborn, 4 years old
Seborn, 4 years old.
Seborn 2nd, 1 year old.
Olive 3rd, 1 year old.
Olive 3rd, 1 year old.
Camile 2nd, 1 year old.
Camile 2nd, 1 year old.
Camile 3rd, 6 months old.
Camile 3rd, 6 months old.
Bessie, 5 months old.
Bessie, 5 months old.
Parline, 5 months old.
Parline, 5 months old. 75.00 75.00 90.00 87.00 80.06 -Edmund Laidlaw & Sons.

A BOOK WORTH READING TWICE.

A BOOK WORTH READING TWICE.

Books issued as an advertisement are often handsome and sometimes under the content of the handsome and sometimes under the content of the handsome and sometimes and the sometimes with the second of the sometimes are always those "advertisers in plain English" with the second of t

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Mai ..... : 00 \*\*\*\*\*

WATE Ottawa the cour question Drumme the faccorn an ably we raisi wick un Fruit Co charding paper of out the en in s PR

CARDI mild, un mud fro demand cattle as \$30 to 8 22c to 2 toes, 25c H. W. P

FRELI wintry z quite spi was good ers tapp Re Th

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waited week be sugaring ier this becoming ers. One 300 conne and give local my adopted ng, and be bette Hay is on risin to \$18 a are extre price bei to lay m

SIDNE held in from 840 pure bre ter price stock ar Jorses h

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NINGS CO., N. S.

WATERVILLE.—Mr. H. Drummond of Ottawa has been addressing meetings in Drummond of the state of cows. Many proceedings of the state of cows. Many proceedings of the state of the state

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

KINGS CO, P. E. I.

CARDIGAN.—We are having a very mild, unsettled winter, and stock seems to be coming through in good shape. Farmers are busy hauling home oyster mud from the railway sidings, where it is shipped by the carload from the north side of the island. The Kings Co. seed side of the island. The Kings Co. seed side of the island. The Kings Co. seed at the control of th

QUEBEC MISSISQUOI CO., QUE.

FRELIGHBSURG. — February was a cold wintry month, but March has been so far quite spring-like. The first week of March was good sugar weather, and a few farm-ers tapped their maples, but the majority

Reaches the Right Men

That small Holstein ad. of tine in Farm and Dairy mine in Farm and Dairy brought many inquiries from the right kind of people, the men that buy.—G. A. Brethen, Norwood, Ont

waited until the middle of the second week helow they made preparations for sugaring, while preparations for sugaring, while popular among the farmers. One company gives its patrons over 30 connections for the sum of \$10 a year, and gives a first class service. Several adopted the cash tax system was the preparation of the sum of the year adopted the cash tax system that year adopted the cash tax system that year and gives a first class service. Several adopted the cash tax system that year the preparation of the prepara

ONTARIO HASTINGS CO., ONT.



look for this Tag on Chewing Tobacco. It guarantees the high quality of

**Black Watch** 

The Big Black Plug.

OUR FARMERS' CLUB

Contributions Invited.

NOVA SCOTIA

NINGS CO, N. S.

WATERVILLE—Mr. H. Drummond of

PETERBORO CO., ONT. LASSWADE.—Eggs and butter are quite high in price, owing to the scarcity of the supply. Eggs are going at 25a a dos, and butter is standing at 25a a lb. First class hay is selling at about 87 a ton, and baled hay is selling at 450 a 187 a ton, and baled hay is selling at 450 a ton. Wages for men are from 25 to 354 a month. Straw is selling at about \$5 a load.—C.E.D.

NORTHUMBERLAND CO., ONT. WORTHUMBERLAND CO., ONT.
WIGKLOW. — Winter wheat and clover seem but little hurr by the winter. Little or no harm has been done to young trees by mice. Farmers generally seem to have plenty of fodder as there are few enquiries for hay. Stock seems to be wintering uncommonly well. The recent reing uncommonly well. The recent proved a success. The speakers strongly proved a success. The speakers strongly by, and at the proper time; also the necessity of growing better fruit, rather than more fruit.—E. B. II.

DURHAM CO., ONT.

DURHAM CO., ONT.

PLEETWOOD.—Hogs are keeping very high in price—89.15 a cwt.; cattle, 5c; hay, 812 and 816; eggs, 20c; butter, 20c; pota toes, nil. Beef will be very searce, as there are very few stall fed cattle owing to the farmers not having any surplus stock. Mr. George Staples and Mr. H. H. Hanna held two very successful auction search the week, everything selling very high—A. HALIBURTON CO, ONT.

IRONDALE-Cattle are coming through all right. Feed is getting scarce. Hay is also scarce. The ice is poor There was a young team drowned last week. They went through the ice with a load of wood.—I. P. H.

VICTORIA CO., ONT.

BURY'S GREEN.—Horse flesh has been soaring extremely high. Buyers have purchased several carloads of good heavy purchased several carloads of good heavy horses for the West and it appears that a mistake is being made by many farm-ed to the several control of the good brood maries, and the good several selling high, especially brood sows, which have reached over \$9.0. Clover has fared well thus far, but the test comes now and later, as the ground is bare in many places. Yery little fall wheat is sown here—G. B.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.
PERGUS--The beginning of this week,
turnips went as high as 16c. There were a number of large sales here recently.
Horses at one sale sold as high as \$65 for one, or \$855 for a team. Some of these are being shipped to the West. Price paid for butter is 20c; eggs, 25c; hogs, \$95, her, \$12; cattle, \$5.50 to \$6; potatoes, \$96 to 50c.—W. B.

WATERLOO CO., ONT. Three Days of Stock and Seed Judging.

Three DWATERLOO CO., ONT.

Three DWATERLOO CO., ONT.

ELMILA.—Seldom has the introduction of the control of the had the opportunity of procuring. The evening meetings were well attended, as well as the morning and afternoon class-cs. The number of attendants increased with such day, as the excellence of the this nature would be velocomed with open arms by young as well as old progressive farmers. Never was a meeting of a nat-ure pertaining to farming so well repre-sented as this—boys of it to old men of different classes.—A. B. 8.

PORTER'S HILL.—The wheat looks fine and healthy after the very heavy cover-ing of snow has gone. The markets are

# LIVE HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$9.60 a Cwt. FOR HOOS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH.

still souring higher-hogs, \$9.15; cattle for May, \$5.75; wheat, \$1.05, and other class shape. Auction sales are still in products in the same ratio. Some or order, all stock and implements selling that the commenced pruning. Trees at top prices.—H. K. S.

# Dispersion Sale

# 30--HEAD HOLSTEIN FRESIAN CATTLE--30

The entire Maple Glen Herd at Glen Buell, Ont. APRIL 7th, 1910, commencing 1.00 p.m.

The great stock bull "Oskland Sir Maida," with 2 records over 20 lbs. in his pedigree, 2 cows with records over 26 lbs. test each 7 days, another daught the stock of the stoc

G. A. GILROY, Glen Buell, Ont.

Col. G. V. KELLEY, Syracuse, N.Y., Auctioneer.

### THIS IS THE MONEY-MAKING Harrow for Farmers



It cuts smooth. levels and covers the grain better than any other.

Perhaps slightly higher than some others in first cost but in the end much cheaper, because the teeth can be taken out and sharpened so much oftener than any other. They are left extra long for this purpose.

The teeth are held to the frame by a malleable clip and staple with nut in each end, thus the teeth can always be kept tight and at the right distance down to properly harrow the ground.

A Harrow may seem a simple thing, but we have put Hamilton Quality into ours, and it will pay you to have

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lowers taxes—betters roads

THESE culverts of mine are a great thing for the farming world. They not only make good roads possible, but they serve the farmer in many other ways. And they are so simply laid. They come nested like this:



This compactness saves freight and makes it easy to handle them. You put the sections together 'ike this:



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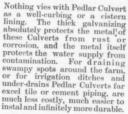


And you've got a piping that will outlast anything of the kind there is. Better get the book and sample and study it.



GET your township reeve or warden to study Pedlar Culverts. Send for the Free Book and show him why this Culvert surpasses for all ditch drainage, for restraining small streams, for every use that any culvert can serve. You will profit through lowered taxes, better roads and abolished washouts. Send for the book and interest your township's officials. You will benefit by what they will learn.

For a very moderate cost you can instal a perfect sewage-disposal system on your farm, using a suitably-sized Pedlar Culvert. You can realize the full value of the liquid manure your animals produce by draining your stable-floors with Pedlar Culvert—and that highly valuable manure is usually wasted on farms. Pedlar Culvert makes it easy to water your cattle in winter. And there are a score of other uses for it on the farm.



Pedlar Culvert is made, in every standard size from 8 to 72 inches diameter, of Special Billet Iron of the best quality, in extra heavy gauge. This Billet Iron is curved into semi-cylinders—curved while cold, so the sizes enver varya fraction. These half-cylinders are then corrugated by a pressure of sixty tons to the square inch. After being corrugated, the whole surface and each edge is heavily galvanized and made positively rust-proof.



A few hours' work—no special skill needed—and an indestructible culvert is in place ready for use.



# PEDLAR CULVERT

is made in Nestable Sections from the Best Billet Iron, heavily galvanized and deeply corrugated. It is the simplest kind of work to put these half-sections of Pedlar Culvert together permanently. One half-cylinder is placed on another, and the flange-rib on each side is rigidly compressed flat by the huge pressure exerted by a simple but effective tool. No bolts, no rivets, no make shifts—but a triple-thick locking rib-flange that gives Pedlar Culvert immense strength. Thus it will stand crushing strains that would destroy any other piping.

This peculiar flat-flange triple-thick rib makes the most perfect joint possible—nearly as good as if it were welded. Yet it allows for expansion and contraction under heat or cold. Thus a Pedlar Culvert will not spring nor split even though frozen solidly full of ice. Also the triple-rib flange principle makes it possible to break joints in putting this Culvert together, something you cannot do with any other culvert or with cement piping or tile.

Pedlar Culverts are the most portable, as well as the most durable, of any piping for any purpose. Being made in half-cylinders, they are nestable—so that a great many linear feet of culvert occupy but few cubic feet of ear or wagon space. This economizes freight and carriage costs, and makes it easy to transport this Culvert even in rough country. You should get the free book and sample culvert that makes the whole story clear. State your possible needs when you write for the book, and let us quote prices.

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The Pedlar People of Oshawa Ontario, Canada

include in the output of their immensefactory the below-mentioned specialises in sheet metal building material. Samples, descriptions and prices of any of these will be readily forwarded postpaid and free upon request addressed to the Pedlar warehouse nearest to the inquiser.

Pedlar Nestable Culvert, Oshawa Steel Shingles, Steel Roofing, Corrugated Iron, Metal Shutters, Skylights, Conductor Pipes, Finials, Art Steel Ceilings, Art Steel Sidnig, Eave Troughs, Prepaced Roofing, Metal Doors, Metal Lath, Venillators, etc.