

VOL. XXIX.

NUMBER 10.

RURALHOM

PETERBORO, ONT.

MARCH 10, V 10.



THESE MEN HAVE PUT THE FORESTRY QUESTION UP TO THE ONTARIO GOVERNMENT

There are some 14,000 acres of waste land in the united counties of Northumberland and Durham. The waste area is speading rapidly. Streams are gradually drying up and the situation is serious. The deputation from the Counties' Council that waited on the Government recently is here shown. If the Government will advance the money required to reforest and take care of this area until the timber is marketable, the counties have offered to pay the interest, and ultimately to repay the principal. Thus it will cost the Government nothing. It is expected that the Government will grant the request. This plan is the one that was recommended

by Farm and Dairy. For the names of the deputation, see page 13.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

Not One Good Point, but Many

Some makers of Cream Separators lay special stress on the ONE STRONG POINT in their machines, losing sight of the fact that they have weak points, and forgetting that no Cream Separator is stronger than its weakest part. A Separator that turns easy is of no particular merit if it is constantly getting out of order. A Separator that is easy to wash will not long remain in favor if it does not get all the



cream out of the milk. It is not enough that a Separator have ONE good It must be good in EVERY particular.

Look at the good points of the SIMPLEX' LINK-BLADE · SEPARATOR. with the SELF-BALANC-ING BOWL. IT GETS be obtained from the milk by any process. It is Self-Balancing, and does not cause trouble as other separators do by the bowl getting out of balance. It is the LIGHTEST RUN-It is the SIM-PLEST machine, having the fewest parts, and will not get out of order like

the more complicated machines do. It can skim cold or warm milk, and WILL NOT CLOG UP. In fact, it has ALL the latest features in Cream Separators, many of which belong exclusively to the "SIMPLEX" machine.

That is why our machines are giving satisfaction wherever used. THEY STAND THE TEST OF LONG, HARD USE. We GUARANTEE them to give satisfaction.

Let us tell you more about them. Write for our Illustrated Booklet. It is Free.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

THE "BT" STANCHION IS ALWAYS CHOSEN When Its Many Advantages Are Known



It is made in five sizes and of heavy "turbar. The lock and trip are made of heavy malleable, it can be easily opened with one band and is the only stanchion that can be band and is the only stanchion that can be band and is the only stanchion that can be be to be supported by the control of the control o

also build Litter Carrier, and

BEATTY BROS., FERGUS

More Money for Agriculture

In the second consignment of sup-lementary estimates which was passed the Ontario Legislature last week, in the Ontario Logislature last week, the following items were among these for agriculture: Mr. C. C. James, Deputy Minister of Agriculture se-cures an additional \$350, bringing his salary to \$3600. The staff of the On-tario Agricultural Colleg. comes in for a further consideration of \$800, appor-tional \$30 anounts to each memtioned \$50 amounts to each member of the faculty. Mr. G. C. Creelman, president, gets \$100.

ber of the laculty. Mr. to Coreaman, president, gats \$100.

The Agricultural and Horticultural Societies who waited upon the Government recently to ask for increased grants aggregating over \$30,000, secured \$7,000, apportioned \$5,000 to Horticultural societies and \$2,000 to Horticultural societies and \$2,000 to Horticultural societies. The Ottawa and Toronto Horse Shows get \$500 and the Central Canada Fair Association to the Central Canada Fair Association to the Central Canada Fair Association to the State Central Canada Fair Association to the State Central Canada Fair Association to the Central Canada Fair Association to the Central Canada Fair Association for the Central Canada Cana Dairy School. The Untario Corn Grow-ers' Association secured an additional \$250. For the maintenance of offices and expenses of three additional re-presentatives \$1,500 is allotted.

New Governmental immigration of-fices are to be opened up in Toronto-near the Union Station; the estimates make provision for \$1,000 for their rental and equipment. A big item in rental and equipment. A big item in estimates was \$463,356.99, which is to be used for colonization roads. Of this sum, \$65,000 goes to new trunk roads, \$30,000 to the Sudbury-Soo trunk road, \$35,000 for the Elk Lake to Gowganda Road and \$30,000 for the Charlton to Elk Lake road.

A Provincial Grant for Rural Mail Delivery In Ontario

Mall Delivery in Graario
Editor, Farm and Dniry,—At the
time the rural mail delivery agitation
was on, previous to the late Dominion
elections, Dr. McIntyestated in PatStratheons, Allerta, stated in Patliament "The west will not permit the
east to have a luxury in which it cannot share." This was characterized
by some eastern newspaners as being not share." This was characterized by some eastern newspapers as being a very unwise and sofish position for the west to take on the state of the west of take on the leaf the state of the west of th Dominion Government when consider-ing the rural mail delivery proposi-tion, on the basis of giving the ser-vice only to communities where the density of population warrants, ex-cept the limited star route, (existing mail routies)

SUPPLEMENTING APPROPRIATIONS In view of side tracking this opposi-tion from the west I suggested in one of my mappaper articles on rural mail delivers to two years since, that the Ontario to two years since, that the Ontario to the ex-tent of supplemential that the op-tion that the Ottawa Government inght be prevailed upon to hand over, for the purposes of establishing gen-eral rural mail delivery in this pro-vince. If other provinces wanted the In view of side tracking this opposithat rural mail convery in this province. If other provinces wanted the service they, too, could supplement a Dominion appropriation. The Ottawa Dominion appropriation. The Ottawa Government possibly might be induced to make a standing offer of an additional yearly subsidy of say \$\$00000 this province, and to all the other this province, and to all the other this province, and to all the other populations to be used for rural mail delivery, to be used for rural mail delivery, to posses, upon their complying with the province of the prov If other provinces wanted the

for contention that a large percentage for contention that a large percentage at least, of this profit, should be handed over to this province, by the Ottawa excher, for the extensions of its rural mail service. Forty thousand out of the eighty-five million citizens of Uncle Sam's country are in the employ of the washinton covernment as rural mail

country are in the employ of the Washington government as rural mail carriers. Proportionately Ontario's two million pe-ple would require about nine hundred rural mail carriers if the system covered all thickly populated localities as in the U.S., and not on star routes only, as in this country at this time.

A THREE-TIMES-A-WEEK SERVICE

To suggest that the country peop To suggest that the country people put up with a three-times-a-we rural mail service, in the face of the fact that the cities of Canada of twelve thousand inhabitants and over, tweive thousand inhabitants and over, have a two and three times a day delivery, is, to say the least, a very modest proposal, and if acted upon not a fair deal by any means, but on the principle that half a lie better than none, would be greatly appre-ciated by the people. For a three-times-a-week service the cost per carrier for a maximum route.

For a three-times-a-week service the cost per carrier for a maximum route of 21 miles, would be at the most \$150 of 21 miles, would be at the most \$150 of 21 miles, would be at the most \$150 of 21 miles, would not perform rate, \$400,000. This prosition should not frighten anybody in Ottaria, with its eight million dollar revenue, and increasing as the years go when the pears go were the pears of the pears

NAVY PROGRAMME WILL BURY IT

NAYY PROGRAMME WILL BURY IT
Hut this opposition to general runal
mail delivery, by west Canada, is not
all of it. Since the Burdeline
Lemieux declared his intellectory
spectring instituting this postal refere
Canada has embarked on a navy programme that will bury general rural
mail delivery, I fear, "a hundred
fathoms deen," unless the provinces gramme that will bury general rural mail delivery, I fear, "a hundred fathoms deep," unless the provinces come to its rescue. The Hon. Nel-son Monteith, then member of the Whitiney Cabinet, in reply to a letter of mine on this provincial supplement-ing idea oran provincial supplementof mine on this provincial supplementing idea, gave no sign of having got huffy over it, but said he would "take pleasure in laying the contents of my letter before the Premier." The Hon. Dr. Pryne, while in full sympathy with Dr. Pryne, while in full sympathy with Dr. Pryne, while in full sympathy with the colleagues would consider all post purplements and the probability of the proposition of the sort of the probability of the probability that Sir Janes Whitney and probability that Sir Janes Whitney the probability and probability that Sir Janes Whitney the probability of th Cities from one end of Canada to the other are continually bonusing concerns of one kind or another. The Ottawa Government expends millions every year in subsidies to ocean liner companies, iron and steel and other industries and institutions.

I am in hone that the Whitney Gov.

companies, iron and steel and other industries and institutions.

I am in hope that the Whitney Government who are pushing with such determination their Niagara Falls power scheme for the benefit, largely, of the towns and cities of Ontaries will take note of what I have proposed in this article, principally on behalf of the country people, the newspaper and other publishing interests, and the content of the country people, the newspaper and the content of the country people, the newspaper and the content of the country people, the newspaper and the content of the country people, the newspaper and the country people, the newspaper and the country people and the country people in the country peop

half the mail business of the Dominion, consequently her contribonion to this surplus was four hundred thousand dollars, which in all reason should be good and sufficient cause 'Co, Ont.

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Vol. XXIX.

FOR WEEK ENDING MARCH 10, 1910.

No. 10

A 100 ACRE FARM, WELL TILLED, WELL STOCKED

The Possibilities of 100 Acres as Exemplified on a Prize Winning Farm. Three Years with Pure Bred Dairy Cattle.

N exponent of the small farm well tilled. well stocked and well managed, is Mr. G. A. Brethen, a young farmer of Peterboro County who has already accomplished much and who bids fair to make still greater progress in the future. His success proves that there are undreamed of possibilities in the 100 acre Ontario



farm. It shows that mixed farming, practised intensively and with well defined specialties, will in future, as it does to-day, make for the greatest success of the average Ontario farmer as it is better to till a few acres well than to spread the same energy and labor over a greater area. Mr. Brethen was one of those farmers who entered his farm in the

Mr. G. A. Brethen Dairy Farms Competition conducted by Farm and Dairy during 1909. He was awarded fourth place in district No. 2 and in the special Good Farms Competition for Peterboro county he took first prize.

"Hill-Crest Farm," the home of Mr. Brethen, comprises 981/4 acres. Half of the farm is sandy loam, the remainder, clay loam. Some years ago, Hill-Crest was purchased by Mr. John Knox, now Mr. Brethen's father-in-law, as a small farm on which to retire. He did much towards improving the property by clearing swampy portions, removing stones and other obstacles. Previous to the ownership by Mr. Knox, the farm had for a considerable time been rented by short term transients, the effect of whose occupancy is still evident in the recurring problems, such as weeds, which must perennially be faced. Seven years ago, the present owner purchased the farm and assumed control.

THE PRIME OBJECT,

The farm is run expressly for dairying. The breeding of dairy cattle is the prime purpose. All operations are run in accord with that object. Hence dairying is the main issue,-not a side isme as with so many so-called dairy farmers of to-day.

A considerable portion of the farm is low and badly in need of underdrainage. Advantage has been taken of the assistance rendered by the local rep esentative of the Ontario Department of Agriculture, Mr. H. C. Duff, in having drainage surveys made. Mr. Brethen intends installing complete systems of underdrainage in the near fut-These lower lying portions, which have so far been unsuitable for other crops, have been kept in permanent grass. This area includes 35 acres. The balance of the farm is well suited for the growth of corn, clover and roots and any of those cereals, particularly oats, which are suitatle for the production of milk.

Corn is possibly the most important crop; clover foll ws a close second. Every effort is put forth to secure an abundance of these two crops as well as roots. Other crops, Mr. Brethen says, can be bought if need be. The corn crop is handled for the silc Early maturing varieties that develop lots of cobs are the kinds sought, the White Cap Yellow Dent Leing the favorite, it having proven, in Mr. Brethen's experience, the most suitable for the locality.

PLANTS CORN THINLY

A failing of some dairy farmers is that they sow their corn too thickly. This practice arises probably from the lack of silos. People think that their cattle would not eat the coarse stalks grown when corn is planted thinly. This year Mr. Brethen will sow his corn in drills 42 inches aj art. last year there was only 36 inches between the rows The rows he considers were much too close. When planted 42 inches apart, cultivation can be continued longer, thus keeping down the weeds and giving development to more and better cobs

"One does not get the cobs," said Mr. Brethen. "when the rows are close together. More corn of barley in the proportion, one to one, but since he found that barley was not conducive to milk production, he sows peas in place of barley knowing them to be better for dairy cattle.

All crops are worked into a rotation covering a period of three years. Sixty-six acres-all the land less the low parts previously mentionedare included in the rotation, which is, first year, clover; second year, corn, roots and peas, or early summer cultivation followed by rape or buckwheat on any land which requires special attention owing to noxious weeds; third year, grain, seeded down without plowing, to clover. A little timothy is seeded with the clover in order to ensure a crop should the clover fail.

Manure is hauled out in winter and piled on the clover sod. In early spring, it is distributed with a manure spreader on those parts which are to grow the corn and roots. The corn land is spring plowed after the grass has gotten up somewhat and is thoroughly cultivated until planting time.

THE CLEANING YEAR

The second year of the rotation is the cleaning year. Stones, weeds and all obstacles are attacked during this period, while at the same time a crop is taken. This is followed by sowing the ground without plowing. Any land that is not well drained is ribbed up in the fall. Commenting upon



"Hill-Crest," the First Prize Farm in the Peterborough Good Farms Competition The residence and farm buildings shown in the illustration are those on the farm owned by Mr. G. A. Brethen, which farm unaddition to capturing first prize for the country, was awarded fourth in the general score. Read the adjoining article, which deals with Mr. Brethen's farm practice.

better quality is secured from thinner sowing. Last year a neighbor borrowed my drill after I had sown my corn. He set it to sow much more thickly and then placed two tubes into the one hoe. Quality suffered as both cobs and well-nourished stalks were lacking. I consider eight to ten quarts of seed an acre, ample, provided it be of high vitality."

CLOVER ADVOCATED

Speaking of clover, Mr. Brethen said, "It is just the thing for building up land. There is a great change coming over the average man, even in towns and cities, in regard to clover hay. He now has little or no objection to it and if he keeps ws, he is quite pronounced in its favor."

Oats is the principal grain crop. It is always own in a mixture with peas. At one time, Mr. Brethen sowed the standard mixture of oats and

this practice, Mr. Brethen said, "I do not wish to undo the results of my year of cleaning the seedbed from weeds by bringing up a fresh supply to encumber the succeeding grain crop. In a rotation such as I practise, all weed seeds are sprouted and developed in a crop in which they can be handled. The lack of plowing at the end of the second year, aside from its effect on weeds is to be commended in that it ensures a catch of clover, since it increases the capillary action thus supplying the moisture so much needed by the young clover plants, while fighting for their own amongst the crops of grain. Those advocates of grain farming and of the summer fallow as a means of combating weeds can scarcely stand in an argument against a three-year rotation since on their 100 acre farm, 10 acres of which they devote yearly to the summer fallow, weeds get a start of 10

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years before the time for cleaning again comes

THE FARM BUILDINGS

The buildings are situated on rising ground in the centre of the farm. Thus the farm work is greatly facilitated. The stables are equipped with cement floors and are convenient for the purpose for which they are intended. The latest addition to the farm buildings is a silo. This was erected last fall. It is a combination of cement and staves 41 feet high in all and 12 feet in diameter. The first 12 feet are of cement. This forms the foundation for the superstructure of staves. The structure cost \$80, aside from digging the excavation, which was considerable, since the silo rests nine feet in the ground. Not including the roof, the silo cost \$100; roof and all, the total cost was \$126.75. Mr. Brethen believes that to get the most out of his cows, they must milk for the greater part of each year and that corn silage is a necessity for winter dairying. Corn, in his experience, has proven to be good feed and cheap when ensiloed and with the silo a greater quantity can be handled.

THE FEEDING METHODS

The silage is mixed with cut straw and roots, the whole being moistened with water and allowed to stand a couple of days before feeding. Grain is fed to the dairy cows whether they are milking or dry. "Decows," said Mr. Brethen, "should be liberally led whether in milk or not. Of course, I vary the quantity of grain to suit the individual requirements of each cow. I feed from

eight to 10 pounds or more of grain a day when a cow is milking heavily, or about one pound of grain to every four pounds of milk a cow is giving. A little salt is given to each cow at feeding time. Grain is fed on the coarse fodder. We feed twice a day giving a little long hay at noon in addition to the two regular feeds."

PURE BRED CATTLE KEPT

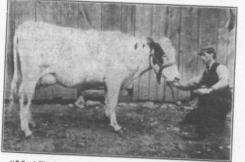
Mr. Brethen has been associated with dairy cattle from his youth. Only of late has he embarked in the pure bred cattle business. Shortly he will have completed three years with his favorite breed, the black and whites, Holsteins.

Previously he had kept grades and nondescripts. At that time he was in the village milk business. After it was sold, four or five years ago, only a few cows, four or five were kept. Steers were fed in winter. Relating his experience with feeding steers, Mr. Brethen said: "The business did not appeal to me. I found that I was putting into

these steers about as much as I could take out of them. When a man starts to feed steers, he simply has to shove in the feed no matter what it costs him and finish the cattle before he can put them on the market and get his money back. And this must be kept up ever though the price of beef goes down. With dairy cattle, one gets his returns day by day."

"I had a craving for Holstein cattle," said Mr. Brethen, "for a good many years and, although, not unlike many others, I had my doubts as to the veracity of the big records published concerning Holsteins, I decided that they were the cows for dairying. Increased knowledge of the capacity and producing qualities of these cattle has made me a very enthusiastic Holstein man. My start consisted of three cows purchased as foundation stock from Mr. J. A. Caskey's herd. These cows had already served as a foundation for Mr. Caskey. Later I added to my stock by purchasing heifer calves. Like all beginners, I had my full share of bull calves. But by replacing them with heifers, I managed to keep up continuous growth in the herd, which now numbers 34 head of registered stock. My ideal has been to get cattle that were not only producers themselves, but that these cattle should carry as much blood as possible of the greatest cows of the breed."

In accord with this ideal as stated, we find females in the Hill-Crest herd very closely related to the great De Kol 2nd, through her sons (the greatest producing cow of the breed). The sires in use at Hill-Crest have also carried a large percentage



Belle of Whittaker, Sadie Vale,"-9663 - One of the Cows in the Hillcrest Herd The photo was taken while this cow was in her three-year-old form-a year. The photo was taken while this cow was in her three-year-old form-a year only and qualified in the Record of Performant and year compeled an official record, and qualified in the Record of Performant and the Sales in the Sales in

of the blood of this cow. "Pontiac Hermes," the present Hill-Crest herd- header was selected because of his excellent A.R.O. backing. His sire, "Hengerveld De Kol," has 102 A.R.O. daughters. This is more than any other Holstein sire, 50 per cent. of them with records of 20 lbs. or better of Lutter in a week. His dam has not only a very

creditable A.R.O. record or nearly 23 lbs. in 7 days, but her sire "Sir Inka Artis Mechthilde" has 19 A.R.O. daughters, 56 per cent. of which have entered the coveted 20 lb. class. "Pontiac Artis" and "Pontiac Jewel," the two full sisters that have both recently made 30 lb. butter records, carry 75 per cent. the same blood as the "Hill-Crest" Pontiac while "Pontiac Gladi," the world's champion, jr. four-year-old 7 and 30 day butter cow and "Pontiac Pleione" 24,820 lbs. milk in 346 days, are both half-sisters to this bull. Com-Lining as he does such a large amount of the greatest* producing blood with his other desirable qualities, make "Pontiac Hermes" a very satisfactory sire in the Hill-Crest herd.

Reviewing his experience of the last three years Mr. Brethen remarked: "Like other beginners in building up a herd, it seemed like a big outlay, but now I can see with others that when once the herd is established, provided that a man has laid well his foundation, ample and satisfactory returns are sure to follow.'

Mr. Brethen's success may be attributed largely to his intense interest and enthusiasm as a breeder of Holstein cattle; to being a great student of records and those points having to do with the successful handling of the breed; and to his thorough study and subsequent practice of modern means of doing farm work as advanced from week to week in agricultural periodicals, such as Farm and Dairy .- C.C.N.

The Breeding of Pure Bred Horses Alex. F. McNiven, Elgin Co., Ont.

A branch of horse raising in which there is great possibilities, is the breeding of pure breds. A few facts of the writer's experience may be

The writer started with four pure bred Clydesdale mares, one five years, the other three-yearolds. The three-year-olds were broken after we got them. With the four we did all the farm work on 100 acres and used them singly to take the family to church and market, as no driver was kept at that time. All four were bred to the same sire and all produced healthy foals the following

Three of the mares were worked while suckling foals, the foals being left in the stable while the dams were at work. The foals from the mares at work did much better than the foal from the mare that was on pasture and not in harness at all. The reasons assigned for this are: The foals of the working mares were in the stable in day time and out to pasture at night. They were thus in the shade and away from flies. As soon as they would eat grain and tran, a little was put in a box for them when their dams were at work.

In the fall at weaning time the three were fatter than the one that was at pasture all the time. They had learned to eat well and the foal flesh stayed with them. The pastured one on the other hand was shy and it took a month before it learned to eat grain; consequently it lost considerable of its foal flesh.

Two of those youngsters were sold at 10 months

The Extended Scores of the Prize Winning Farms in the Special Good Farms Competitions Held in Peterboro and Durham Counties

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old, at auction sale, the one bringing \$250, the other \$185. 'Then another was sold at 12 months for \$150. The other one we kept and at 17 months is valued at \$650. The dams before they were brid cost on an average, \$575 apice.

Symptoms of Rabies in Dogs*

The eccentric habits of some dogs are often mistaken for symptoms of rables; therefore, it is necessary to remember any peculiar actions of a dog when inquiring into its condition of health. Moreover, dogs are subject to maladies which are very often mistaken for rabies. Epileptic fits, for instance, have been taken as signs of the madness. . In an epileptic convulsion the dog falls on its side and emits a frothy saliva from its mouth; the attack lasts only a few minutes and the dog entirely recovers in half an hour. It is not possible to make a statement on paper of the symptoms of rabies which cannot be misunderstood; therefore an owner should obtain the advice of a skilled person as soon as he becomes alarmed by his dog's manner and illness.

A dog will lap water, for it does not dread fluids, when rabid; it never suffers from hydrophobia. (Note.-Rabies is the disease in the animal; hydrophobia is the disease in the human being). Foaming at the mouth, raging malness, and fits, are the last forms of rabies. The first signs are seen in habits-the dog's behaviour is entirely changed and his countenance is altered An affected animal becomes dull, gloomy, and taciturn, and tries to hide itself in out-of-the way places; or, when spoken to by its master, it looks up apparently with an effort to be cheerful, its countenance dropping the moment afterwards into an expression of wretchedness, and its eyes staring with a sad void in them; sometimes it collects dirty pieces of rope which it hides; or it is restless the moment it lies down, finding no place comfortable, "seeking rest but finding none", or, it seems to be under fitful delusions, and fancies it sees things, or hears sounds, and starts at them, and subsides the moment afterwards into supineness. Its temper generally changes from natural sociability to disagreeableness. In many instances it vomits, the ejected matter being streaked with blood.

Though surly, it is not vicious at this stage of the malady, but, on the contrary, it is unusually affectionate; and yet its expressions of love seemed tinged with a melancholy which impresses a careful observer with the unhappy thought that the poor creature is conscious of its serious condition, and of a danger to its friends that it may be the agent of. Sometimes it shows distrust, preferring solitude to the company of those it has loved; at others, an imploring, despairing appeal is made to its master to save it from impending disaster. Its master's voice always has a semimagical influence on it. In more decided cases, it snaps at the air, apparently seeking for something it cannot find, and scrapes incessantly. These are bad signs, especially if, at the same time the poor creature becomes fastidious in feeding, or refuses food which it formerly was partial to, and, instead shows a morbid disposition to eat carpet, wool, wood, earth, stones, excrement, etc.

When the above signs are present, or any of them are sufficiently present to alarm its owner, the animal should be isolated, and a veterinary surgeon should be called in, and no child should be permitted to go near it. When the peculiar noise is heard, which is neither a snarl, nor a growl, nor a bark, nor a howl, but all of these, in which the howl predominates, then no doubt can be felt. Generally a rabid dog tries to escape from its master, probably fearing to injure him and others whom it loves; and then it randers—moving along with no visible object or aim, but still going on and on, frequently at a quick pace until its strength fails.

*Adapted from the Seventy-Ninth Annual Report of the Royal Society for the Prevention of Crueity to Animals London, Eng., and published by the Toronto Humane Society.

Make a Good Selection of Seed

T. G. Raynor, B.S.A., Seed Branch, Ottawa
The value of the farm crops to Ontario are
scarcely realized by the farmers of the province.
Business men seem to be able to grasp the situation better, for they have their finger on the
pulse of the farm crops from year to year. To
them our crops are their index for expansion or

contraction in ordering supplies.

The estimated value of from \$164,000,000 to \$200,000,000 for the crops of the province last year on the basis of commercial values, in itself is wonderful. When we realize, however, that probably two-chirds or more of this is the farmers' raw material with which they produce more concentrated products such as pork, beef, mutton, milk, butter, cheese, poultry, horses, etc., then A first-class fanning mill selection would be to reduce the grain as it comes from the machine fully one-h-lf before soring the seed. A fair selection would be to take out ¼ or ¼ of the light seed and dirt before sowing. This would require the passage of the grain over the ordinary mill at least three or four times, with plenty of wind and good screens. Most farmers are content with one cleaning.

There is a good deal in knowing how to manipulate a fanning mill, to adjust the sieves so that it can get plenty of wind direct on the seed as it falls from the hopper and to fix the slant so that it will rapidly carry off the chaffy light stuff. A good power mill located so that a large number of farmers might have access to it, I believe would be a good paying investmen. There are a few



A Lise of "Uscle Sum's" Free Rural Mail Delivery Waggess
Our neighbors to the south of us who enjoys avery extensive system of Free Rural Delivery, are proding with their agitation for a parcole of the Rural Delivery has become more general in Ontion our farmers must be prepared to agitate for it here.

we are able to form some conception of the immense value a good crop is from year to year.

Heretofore we have been measuring our capacity to produce crops too much from averages instead of taking the more comprehensive view of what it is possible to produce. For instance, the oat crop which is by far the largest grain crop grown in the province. The average yield per acre is about 36 bus. There are many farmers who are getting yields of 50 to 80 bus. an acre. There must be a large number then who are content with less than 30 bus. an acre.

FOOD FOR THOUGHT

These facts should furnish us with food for thought to see if we cannot discover remedies for this. It is well known that some of the old countries are getting much higher averages than we are, and their land has been much longer under cultivation. Doubtless this is partly due to smaller buildings and more intensive methods of farming. Yet when we learn that in the southern part of Sweden they are growing 90 bus. of spring wheat to the acre, it should make us think a little.

The most potent forces for increasing our crops are good seed, good drainage and good tillage. Taking the first requisite as our theme this time let us see what good grain is. It might be defined as large, plump, sound seed having good vitality. It pays to make a good selection. The fanning mill selection is the method in most common use and I believe it would be possible to increase our yields per acre by at least five bus. if the fanning mill method were well observed this spring. If under present methods we are producing grain at a profit, then every additional bushel we can grow must be profit.

seedsmen here and there who will clean the farmer's seed for them at about cost prices. A power mill properly adjusted will take out at one cleaning about one quarter of the seed, etc.

A VALUABLE OBJECT LESSON

Our experimental farms have given us some good object lessons on the value of selection. Take Prof. Zavitz's work at the O.A.C., Guelph, which has been conducted for a series of years, in determining the difference in yields per acre by using large, plump seed and small plump seed respectively. Every year and with all the cereals tried, including oats, spring and fall wheat, barley and peas, the largest yields have come from the use of the large plump seed. A difference of as much as 15 bushels an acre in oats being obtained. In other grains from three to six bushels per acre. Surely that would pay. These results only emphasize the value of a good fanning mill selection.

The selection by plants of good tillering and yielding capacity supplemented with a good fanaing mill selection is another method of increasing the yields per acro. This is the plan adopted by the Canadian Seed Growers' Association. Now is the time for farmers to get busy and dress up their seed grain before the rush of spring work is on in caring for stock and in preparing the seed bed.

I have met a number of farmers who have tried these methods and they are prepared to corroborate what I have said. For instance, Mr. W. D. Saunders, Huron Co., Ont., said he had tried it last year with barley and while most of his neighbors had rather indifferent crops last year he had a good crop and had 600 bushels of good, Mandscheuri Larley for sale.

SEED OATS

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\$6.75. Orl; Alrike, \$14 a cwt.; timothy, \$6.75. Orl; Alrike, \$14 a cwt.; timothy, \$6.75. Orl; which tells over yearner should know about growing corn.

J. A. FLETCHER, Valetta, Ont.

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THE DAIRY FARMS COMPETITION

Prizes Ordered—This Year's Final Competition—Splendid Essays Coming— Next Year's Contest.

As announced recently in Farm and Dairy, the prizes won in the dairy as commodious as those of some of throughout Ontario by Farm and Dairy, ally assisted by a committee of number of points he scored for free-well-known dairy farmers, have all doom from weeds, his farm scoring 70 Ellis & Company, of Toronto and the scored for this. The Ellis & Company, of Toronto, and are

being engraved.

We expect to be able to announce being engraved.

We expect to be able to announce soon the details for this year's final competition. A meeting of the committee of management will be held at an early date when the arrangements will be completed. Certain of the leading prize winners in each of the four districts will be allowed to complete in the final competition that compete in the final competition that is to take place this year to decide the test farms in the province. Either three or five prizes will be offered in this year's competition to the competition that is to take place this year to decide the test farms in the province. Either three or five prizes will be offered in this year's competition to

Our readers are reminded that we Our readers are reminded that we purpose holding another competition next year, open again to three thousand province. It is likely that the mittee of Management will decide on prevent the leading prize winners hast year in each district from competing in next year; some and competition.

Our readers will rember that one of the rules of the competition provided that the winners in the competition of the produced 18,405 pounds o Our readers will rember that one of

y as commodious as those of some of the other competitors, led all the other of the other competitors in the provines in the further of the other competitors in the provines in the further of the competitors in the provines of the further of the competitors in the further of the competitors of the competitors of the competitors of the competitors in the process of the competition o

THEY WERE THANKED

mittee of Management will decicity prevent the leading prize wimment to form competition in next year's general competition, although they may be given a change to try again in the final competition, that will follow, provided that they do not win first place in this year's final competition. These farmers who did not compete last year will have another opportunity to take part in next year's competition. These farmers who did not compete last year will have another opportunity to take part in next year's competition. These farmers will have another opportunity to take part in next year's competition. These farmers will have another opportunity to take part in next year's competition that has just closed, and to the widespite of the competition that has just closed, and to the widespite of the competition that has just closed, and to the widespite of the competition was last year. The proposed of the competition that has just closed, and to the widespite of the competition was last year. The proposed of the competition was last year. The proposed of the competition of the competi

souri in one year produced more numan food in her milk than is contained
in the complete careasses of four seers
weighing 1,250 pounds each. This
statement, impossible as it seems, is
not only true, but does not even do
the institute to the cow. The solids in
the produce of the cow of the produced
against the higher accompletely digested and, which are completely digested and, which are completely digested and, which are compress of the steer
which is only the performed this feat
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steers is Princess quartent of four
for producing the steer of the pounds of
milk. Below is given the amount of
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milk and the amount of
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A fe post n formed trated progre tion w culosis tators disease W. Washin ciation

dairy o was fe need of good u that k pounds, contained 56 per cent. of Scales, milk sheets and testing apwater in the carcass, leaving a total of 569 pounds of dry matter. In this dry matter of the steer is included hair and hide; bones and tendons, were simple, easily kept, and were of the steer is necessarily were simple, easily kept, and were of the control of the con made from samples taken after grind-ing up together one-half of the com-plete carcass and is not in any sense an estimation of the composition of carcass.

the carcass.

Princess Carlotta produced proteids
sufficient for more than three steers;
nearly fat enough for two; ash
enough to build the skeleton for three,

enough to build the skeleton for three, and in addition produced 929 pounds 81.

for milk sugar worth as much per pound for rood as ordinary sugar.

These figures show the remarkable efficiency of the cow as a producer of buman food. It is because of this decounting it is of the cow as a producer of the produced of the companion of the companio economical use of food that the dairy cow and not the steer is kept on high priced land. When land is cheap and feed atundant the meat producing animals predominate, but when the land becomes high in value and reduce expensive the farmer turns to the dairy cow.—C. H. Eckles, Prof. Dairy Husbandry, University of Missouri.

British Columbia Dairymen

The British Columbia Dairymen's Association met recently in annual convention in Victoria. The proceedings of the convention were of a ecedings of the convention were of a most practical and educative nature. In addition to the addresses given by Mr. Bowser, acting Minister, acting Minister, culture, Mr. Moriey, Mayor of Yie-toria and Capt. R. C. Tallow, former Minister of Agriculture, practical de-monstrations were given of milking by machinery and of detecting tuber-culosis in cattle. culosis in cattle.

SECRETARY'S REPORT

The report of the secretary, Mr. R. W. Hodson, showed that the membership is now over 100. Hopes were expressed for a 500 membership this year. In 1809 16 meetings on sanitation in 1809 16 meetings on sanitation of the secretary of the secretary of the secretary of the secretary has been given on bovine diseases had been given on bovine diseases where now better lighted and had improved gutters and floors. Detached separator and milk rooms had been built. Out of 2,029 cattle tested with tuberculin, only 8.7 per cent. had reacted. He urged the educational empaign to be continued. Satisfacture of the second of

district.

The report suggested that a cent or two less be paid for milk not in first-class condition, at the creameries, and that the association offer prizes to cheese and butter makers with the lest that the condition of the property of of the propert cheese and butter makers with the less kept establishments from a sanitary point of view. A creamery instructor had been appointed and a co-operative egg station established at the Cowichan creamery.

TUBERCULOSIS

A feature of the convention was the post mortem examination of two tub-seculous cows. Dr. Knight, who performed the post mortem, verbally illustrated the operation while it was in progress. His address and demonstration was descriptive of bovine tuberation was descriptive of bovine tuberation was descriptive of bovine tuberations were shown the ravages of the disease in the first animal examined.

W. J. Langden, president of the Washington State Dairymen's Association of the profit and asserted the control of the profit and asserted the need of her profit and asserted the need of her profit and the control of the profit and the

them.
The officers elected were as follows:
The officers elected were as follows:
Presidents, Mesars. A. C. Wells and
Buckingham; vice-presidents, Mesars.
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land, Messrs. J. M. Stevens, Alex.
Davie, Thompson Mufford, Page and
Webb; Upper Mainland, J. T. Bardolph and E. A. Cameron; sec-treas,
R. W. Hodson. W. Hodson

Our Premium Department

Information regarding Farm and Dairy premiums will be found here-after at the bottom of that page opafter at the bottom of that page op-posite editorial. Watch that space for new clubbing offers, new premiums, and any premium news. It will pay you. Note the change in our "pig offer" that appears in this week's is-sue. Hereafter a club of nine new subscriptions will be necessary to se-cure a pure bred pig. Clubs that have already been sent in with seven subscriptions will be ac-cepted and the pigs sent as soon as

cepted and the pigs sent as soon as shipments can be made.

Milk and Milk Testing

"Questions and Answers on Milk and Milk Testing," by Chas. A. Publow, M. D., and Hugh C. Troy, B. S. A., is a book that students in the dairy industry cannot afford to be without. The text is just what its indicates questions and answers. without. The text is just what its title indicates, questions and answers concerning milk and milk testing. It is the only treatise of its kind that is available and possibly no other book of its size gives us so much informa-tion on the study of milk and milk products.

Anyone interested in the study of milk should secure a copy of this book which is bound in cloth and contains 100 pages 5x7 inches. The price, net, is 50 cents. The book may be ordered through Farm and Dairy

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HORTICULTURE

**************** Ontario Co-operative Fruit Movement

The Co-operative Fruit Growers of Ontario, the central organization with which are affiliated the leading local associations in the province, has this year made a step in advance in reference to the purchasing and districted the step of the property of t to rent or tulid its own warehouse and to distribute material from some cent-ral point. In the meantime, however, this year's plan is a decided step in

It was also ascertained at the last It was also ascertained at the last meeting of the executive that it was possible to obtain a charter under the provincial Act, and the executive were instructed to arrange this matter be-fore the annual meeting in the sum-mer. Some of the executive hope to mer. Some of the executive hope to be able to arrange matters so as to sell the product of a number of the smaller associations this year. This will entail some system of inspection and will necessarily have to be goine into rather cautiously. The real is no doubt, however, that in time the plan will be perfected and it will aid mater-ially in the organization of smaller will be perfected and it will aid materially in the organization of smaller associations which are not generally in a favorable position to dispose of their pack. The secretary of the provincial association is P. W. Hodgetts, Denagtiment of Agriculture, Toyonto. Department of Agriculture, Toronto.

San Jose Scale in Ontario

R. H. Lewis, Provincial Inspector, Hamilton

San Jose scale in this province is spreading. In most municipalities which I have visited, during the past year I have found more or less scale. What surprises me is fund such townships as South Grantham and Niagara, all in the peach bett, not having local inspectors to inspect the orchards where trees are supported. naving local inspectors to inspect the orchards where trees are badly infest-ed with scale. There are about 10 municipalities that have local inspect-There are about 10 municipatities that have local inspect-ors and all are doing good work. In North Grimsby and Saltfleet town-ships excellent work is being done by the inspectors and the growers are holding the scale in check by thorough snraving.

spraying.
Leamington has taken up spraying so extensively that the coming spring so extensively that the coming spring a large number of peach reason as a large number of peach reason growers can buy the lime and the property of the second point of the second point

The department of agriculture doing everything that possibly can be done. All stock in the nurseries is inspected during August and Septeminspected during August and September by inspectors sent by the department. Every tree is carefully looked over, and when found with scale the trees are broken down and the nurseryman notified to take out and

J visited a number of the nur-series during the past season and found the nurserymen doing all that is possible to keep the stock free from The nurserymen have a good

the second control of the second deal to fight against. deat to ngut against. Surrounding most of our nurseries are old apple orchards and line fences with all kinds of trees growing, which are infested badly with scale and affording breed-ing spots for it.—The Canadian Hor-Surrounding

Managing the Hot-bed

(Continued from last issue)

The essentials for success in the management of a hotbed are a steady,

The essentials for success in the management of a hotbed are a steady, uniform degree of heat and moisture, keeping the soil at all times a few degrees warmer than the air; and the degree warmer than the air; and the degree warmer than the air; and the degree warmer than the air; and the supply of warmer than the plants before the supply of warmer than the plants before transplanting into the plants before transplanting into the plants before transplanting into the plants before the supply of securing them, prominent among which is overheating the a wild, but the supplies that the securing or how will sell to the temperature will fall to will rise to 90 or 100 degrees upon the supplies of the supp

easily acquired by one who gives the matter careful attention, keeping constantly in mind the essentials giv-

Propagating Strawberries from Seed

W. T. Macoun, Central Experimental Farm, Ottawa

Owing to the comparatively short time from the sowing of the seed until the plants bear fruit the growing of seedling strawberries is one of the most interesting lines of experimental work in fruit culture. If the seeds most interesting lines of experimental work in fruit culture. If the seeds are sown immediately after ripening they will germinate in four or five weeks if the soil is kept moist, and the plants from them will fruit the next season, if the conditions for growth the first summer are favorable. These conditions may be ablatically growth the first summer are favorable. These conditions may be obtained by growing the plants in cold frames where they can be protected in late autumn and have a longer soon for growth. If seed is not sown the same soason as planting, it should be held over until spring, mixed with sand over until spring. The seed should be sown outie shallow, not more than a or in envelopes. The seed should be sown quite shallow, not more than a quarter of an inch in depth, in well-prepared soil. When the plants are large enough, they should be pricked out about six inches apart, where they will remain until the spring fol-lowing the planting of the seed. They they will remain until the spring fol-lowing the planting of the seed They should then be set out in the open about three feet apart each way. If about three feet apart each way. If the plants are grown on a large scale, it may be more practicable to trans-plant the seedlings directly from the seed-row to the field. No runners should be allowed to form the year the plants are put out in a cold frame. Before a variety is distributed, it should be fruited at distributed, it should be fruited at distributed, it should be fruited at least three years as often the promise of the first season is not become from a cultivated variety are likely rounded saturated variety are likely rounded saturated variety are likely rounded saturated with the saturated and the saturated as a rule, the proportion of varieties which are as good or better than the best on the market is very small.

Considerable work has been done in growing seedling strawberries at the Central Experimental Farm, but as

yet no variety has been produced which was thought worthy of intro-duction. Of 650 seedlings which fruited in 1889, forty were saved. fruited in 1889, forty were saved. These have been gradually reduced in number until only six are being tested. Most of these are of very good quality, but lack other characteristics desirable in a commercial berre rail 1897, about 1400 seedlings were raind to the proposed of the heat amond varieties. 1807, about 1400 seedlings were raised from some of the best named varieties. These were gradually reduced to 34, among which were the 1905-6 these were practically all winds 1905-6 these were practically all winds 1905-6 these other lot of seedlings has been all and other lot of seedlings has been all and other lot of seedlings has been all and set out in the hope of Letter success, and some very promising var-icities have fruited.—Extract from Bulletin No. 62, on "Strawberry Cul-ture."

Some growers imagine that they can spray only a few trees in the orchard, and not the others, and at the same time control the pests. If only a few trees in the orehard are infested

with insects, especially scale insects, or infected by disease, the entire orchard should be sprayed. Only by this means can the trouble be successfully combatted.

raying is sometimes practised with Spraying is sometimes practised with no definite purpose in view. The operation should be definite and for some one thing or purpose. The definite and for some plish, Usually a good reason is at difficult to find. Spraying should be performed at the proper time for the most effective results in combatting the various insects and diseases. the various insects and diseases.

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will plant one-third faster. No other notato planter can compare with it in accuracy. The Aspinwall No. 3 drops over 99 per cent. good. And does it without slightner injury to the seed. We've put seed through the planter over fifty times and it produced as good results as seed planted by hand. No change of pickers required for different sizes of seed or different distances of planting. On the control of the planting of of t

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taken now m Fruit-g poultry there i educati for itse is not correct expense they wa

The farm in the aver we can ment. the nu ticularly eggs fro will rea our hig age her duce at year.

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Poultry Industry in British Columbia

M. A. Jull, B.S.A., Poultry Expert for B.C.

Few realize the vastness of the British Columbia of to-morrow. Its many progressive industries are the backtone of the Province, and as one backhone of the Province, and as one of these, agriculture is endeavoring to develop to as large a measure as possible a self-sustaining Province. Among the various branches of this industry there is one which is deserving of much more attention than it has received in the past. The adaptability of British Columbia for poultry raising is not questioned, nor are the profits on the capital invested too small.

Small.

Poultry-raisers realize greater profits in British Columbia than elsewhere in America in the production of commercial products. Notwith-

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produce its egg laying characteristics hora for table use. Kindly advise me in the offspring, at the same time what breed of male to use, or should I maintaining the highest possible decontinue with the Leghoras? I would like gree of vitality. Inherited stamina, II. W. Oxford Co., Ont. fresh air, plenty of exercise and proper food are necessities if constitution al vigor vigor s to be maintained. All of ese factors must be considered when endeavoring to improve the qualities of any strains of birds.

> Suggestions on Raising Ducks E. G. Cooper, Halton Co., Ont.

E. G. Cooper, Matton to., Un.

In raising ducks for profit, two
plans may be advisable. First, after
selecting the best eggs to be hatched
and the little birds have seen the light
of day for the first time, care should
be seem to wick out those that would be taken to pick out those that would be best to fatten quickly for market and those that would be best to keep growing until fall. To have about half in each division is about right. Second, take the ones selected for

Second, take the ones selected for forcing and put them in a pen by themselves. The necessary quarters are as follows: A warm pen, say 10x 14 ft. to every 25 ducks. Provide them with a small trough of fresh, clean water daily and feed as follows: In the morning, soft feed, shorts, just west anough to correlable them. of commercial products. Notwith-standing this fact, over two million clean water daily and feed as follows cleans water daily and feed as follows dollars are sent out of the province In the morning, soft feed, shorts, just annually in the importation of eggs wet enough to crumble. At mean, and poultry flesh, besides the thous- corn meal fed in the same condition.

W. O. Oxford Co. Ont.

You do not state low old your hens are but from the fact that you say they have been laying and there winters, it would indicate the thing of the control of the co

early winter which is doubtless the case with your flock.

We have in our pens pullets hatched in March that had during August to December, but said during August to December, but said during August to December, but said during August to December, but and will likely lay again until March or April. Your carry Leghorn pullets from Legary Leghorn pullets from Legary Leghorn but and will be same thing. I find that in order to have a fair supply of eggs from Legarons during the winter late properties of the winter late and the winter late of the winter late of the winter late in the winter late of the winter late in the winter late of the winter late of the winter late of the winter late of the winter late winter late winter late with your want a larger White bird than the White Leghorn why not try the White Wyandotte or the White Rocks. I would not advise you to cross a male of either of these breeds with your flock but would prefer getting some eggs for breeding purposes.—Prof. F. C. Elford, Macdonald College, Que.



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White Wyandotte Cockerels, \$3 and \$4 each.
Buff Orpington Cockerels, \$2.50, \$3.00 and \$4.00 each. HARRY T. LUSH, 182 Dublin St., Peterboro



Ducks are capable of returning profits, but they require to be handled carefully. Advantage should be taken of their feeding qualities in having them rushed to market while young. Photo courtesy Dept. of Agri., B. C.

ands of dollars that are sent abroad for breeding stock. It is quite time that something be done to modify the existing conditions and one might in-fer that we should be exporting produce rather than importing.

At night, shorts or bran with the same proportion of water as in the morning.

Green food should be provided in proportion as the ducklings increase in size. If milk is obtainable.

INTEREST IS INCREASING A remarkable change has already taken place and greater interest is now manifested throughout the Province in this important industry. vince in this important industry. Fruit-growers, dairymen, ranchers and poultrymen are anxious to learn, and there is a great field for work along educational lines. The industry speaks educational lines. The industry speaks for itself and the important question is not to foster poultry-raising, but to direct the industry through the correct channels, where maximum re-curns may be realized with minimum expense. The people know "why" Lut they want to know "how".

they want to know "how".

PRICES ARE EXCELLENT
The PRICES ARE EXCELLENT
The PRICES ARE EXCELLENT
The PRICES ARE EXCELLENT
The Average yearly production our feil
the 65. With these figures before us
we can clearly see room for improvement. The urgent need is to increase
the number of fowls and more particularly to increase the number of
teggs from each fowl. A 65 egg hen
will realize a small profit even with
our high priced feeds, but the average hen in every flock should produce at least from 120 to 150 eggs a
year.

Green food should be provided in proportion as the ducklings increase in size. If mile is obtainable, it should be used instead of water in mixing with the meal.

The other birds should be provided with large runs, plenty of grass, a running creek, if obtainable. When full grown, fatten quickly with corn or peas. Green food shoull be given in the form of garden truck, or any kind of vegetable while the ducks are in the growing state. in the growing state.

Old Hens-Winter Moult

My flock of 40 well bred White Leghorns My flock of 40 well bred White Lephorns have always been splendfd layers until this winter. When putting them into winter control with the winter and the second more promised and were all through moulting heat of November. A few commenced laying in November, but about the middle of December the whole flock showed signs of the whole flock showed sig

ment. The urgent need is to increase the number of fowls and more particularly to increase the number of feet and the number of eggs from each fowl. A 65 egg hen will realize a small profit even with our high priced feeds, but the average hen in every flock should produce at least from 120 to 150 eggs a year.

The thing of importance is to breed a heavy egg laying strain that will re-

BUILD CONCRETE SILOS

Any Size, with the London Adjustable Silo Curbs. WOOD SILOS soon rot and fall down. STELL SILOS have a very short life, as the acid from the corn cast the silos of the corn rust out. There is a leavays a large amount of waste ensilings are soon rust out. There is a leavays a large amount of waste ensilings are soon rust out. There is a leavay a large amount of waste ensilings are soon rust out. There is a leavay of the street of the soon rust out. There is a leavay of the soon rust out. The soon results will will will be soon rust out of the soon rust out of the soon rust out. The soon rust out of the soon rust

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R fron COWS

HOLSTEINS FOR THE OTTAWA EXPERIMENTAL FARM

Hon Sydney Fisher Intimates that a Herd Will Be Purchased-Stables May Have to be Re-arranged.

A herd of Holstein-Friesian cattle is, are aware of the great records Hol-kely to be established soon at the stein cattle have been making in the experimental Farm, Ottawa. Assur-production of milk and butter as well A herd of Holstein-Friesian cattle is likely to be established as at the Experimental Farm, Ottes as Assurances to this effect were faster to be a superimental farm, of the superimental farm, of the superimental farm, of the superimental farm, of Agriculture, to a deputation that had been appointed to wait on him by the Canadian Holstein-Friesian Cattle Breeders' Association, Hon. Mr. Fisher gave the members Friesian Cattle Breeders' Association. Hon. Mr. Fisher gave the members of the deputation a pleasant inter-view. He stated that he had been watching the great progress being made by Holstein cattle, and intimat-ied, that while it might, processitate the

watching the great progress being made by Holstein cattle, and intimated, that while it might necessitate the re-arrangement of the man at the Experimental Farm, he believed such could be effected and a few for the stein cattle installed there.

The members of the deputation were Mesars. Malcolm Schell, M.P., Woodstock; H. E. Allan, M.P., Waterloo, Que.; J. E.-K. Herrick, Abberstond, Que.; J. E.-K. Herrick, Abberstond, Gue.; D. C. Flatt, Millgroverstond, F. Hicks, of Newtonbrook. Mr. Schell is not only an enthusiastic Holstein breeder, but he is chairman of the Committee of Agriculture in the House of Commons, and his pressures as source of strength, Mr. Allen, whose constituency adjoins Hon. Mr. Fisher's, assisted the deputation in every way possible.

The object of the deputation was explained by Mr. Herrick, who said, "Owing to the important position you hold, as Minister of Agriculture, we presume, Hon. Mr. Fisher, that you SUBJECT INTRODUCED

FREE EGGS

Guaranteed to hatch, from our big-breasted, heavy-laying strain of Rose and Single Combed Rhode Island Reds, White Wyand-ttes and White Leghorns. Bred and Fed for Laying. Eggs. 81.50 per 15; \$2.50 per 30; \$6 per 105. Every 15th setting given free.

J. H. McCAULEY, Ontario Churchville

production of milk and butter as well as of their as of our Association have of their as of our association have one as of their as of the

Hon. Mr. Fisher. "Have you got enough funds to present me with a good herd of Holstein cattle?" Laughter)

good herd of Holstein cattle?" (Laughter).

Mr. Herrick. "Three years ago," continued Mr. Herrick, "we organized a branch for the Province of Quebed an annual meeting of this branch and had over 100 in attendance."

Mr. D. C. Flatt. "The Holstein cow has demonstrated her superiority as a dairy animal in dairy tests of every kind. At sales Holsteins sell for higher prices than cattle of any other dairy breed because our farmers have come to recognize their value. The question has often been also the first of the control of the

THE REASON

Hon. Mr. Fisher. "I have been asked this question before. The reason is because the barn is so. The reason is because the barn is a ranged that we have not room for them. We keep four treeds there now. I have keep fliked the arrangement of the barn it is laid out in four sections each with a double set of stanchions. One breed

of cattle is kept in each of the four sections. Were we to introduce another breed of cattle it would necessitate our breaking up the divisions and mixing the arrangement of the breeds to some extent, or, we would have to keep one of the breeds off have to keep one of the breeds and the breeds have part of the barn. All the breeds have part of the barn. All the breeds that the foundarian cattle which I introduced mandain cattle which I introduced mandain cattle which I introduced may be seen to be see

Hen. Mr. Fisher. Mining court-borns, Guernseys, Ayrshires and French-Canadian."
Mr. Flatt. "Could you not keep a few less of each of those breeds and thus make room for the introduction of a few Holsteins?"
Hon. Mr. Fisher. "It would not look well if we had to keep five breeds of eatth in the nresunt four divisions of

look well if we had to keep five breeds of cattle in the present four divisions of the burn. There is a wing to the barn, however, and it may be possible for us to fit up that we could reep some flostens in This will not be very satisfactory, but may do."

Mr. Herrick: "Under the conditions we will be well satisfied with such an arrangement. We are satisfied that it Holsteins are one introduced at the

arrangement. We are astisfied that if Holsteins are once introduced at the Farm they will be able to take care of themsives afterwards. This bred has run the gauntlet of unfavorable criticism as no other breed has and in spite of it has wo out, thereby proving its means to the proving the proving

ng its merits. Hon, Mr. Fisher. "I am afraid that

Hon. Mr. Fisher. "I am afraid that the price you are asking for the Hol-stens will make it difficult for me to obta: na good herd."

Mr. Flatt. "It would be a great mistake for any Holstein breeder to sell the Government a poor animal; such action would burt the breed and would hurt the breeder."

Hon. Mr. Fisher. "Still it is going to be necessary for us to use great care in selecting the animals. We to be necessary for us to use great care in selecting the animals. We have never paid fancy prices in purchasing stock for the Farm, and the animals we purchase must stand the tuberculin test. Of course, we want only good animals. I think that we can so arrange the stables that it will be possible for us to keep eight or ten females and a good bull."

The members of the deputation all agreed that this would be thoroughly satisfactory. Mr. Flatt thanked Hon. Mr. Fisher for the reception that he had given the deputation, and stated that he had had occasion to wait on Hon. Mr. Fisher on several ceasions on behalf of the farmers and had always found him anxious to do whatever he could to help the farmers.

LARGE FROUTE.

LARGE PROFITS

Mr. Hicks told Hon. Mr. Fisher that Mr. Herrick had recently returned from a visit to Boston where he had seen the noted herd of Holsteins owned by the Field brothers. Although immense sums have been spent in the establishment of this herd it is printing 20 per cent. profit. Hon. Mr. printing 20 per cent. profit was no wonder then replied that it was no wonder then replied that profit was a good object less for others. "Those city people who for others. "Those city people who for others. "Those city people farm under the high price of farm under the same could pay for the same so out on the farms. I alway see that the farmers are charging that Mr Hicks told Hon. Mr. Fisher that the farmers are charging too much for their products. If they think so, they should become farmers them-selves."

selves."

During the course of the interview, Hon. Mr. Fisher assured the members of the deputation that he personally and no objection to Holstein cattle, that he appreciated their great merits as a dairy breed, and that being a dairy threed, and that being a dairy the dairy that the dairy the dairy the dairy the dairy that the dairy the dairy that the ing a dairyman nimsell, ne was anxious to assist the dairymen of the country in every way in his power. He had always found the Government he had always found the Government willing to assist him in helping the farmers. This concluded the interview.

HISTORY OF THE AGITATION Seldom has an agitation on behalf Seldom has an agitation on-behalf of the farmers met with a more cordial reception from the Government. It is only a few months since Farm and Dairy political that the state of the state Holstein and Jersey cattle were not kept at the Experimental Farm, and urged the two cattle breeders' Asso-ciations, interacted to netting the Gov-gations, interacted to netting the Govciations interested to petition the Gov-ernment to establish herds at the farm.

a petition and forwarded it to Mr. Fisher, asking him to act favorably upon the suggestion. Last week, at the annual meeting of the Quebec bunch of the Holstein Cattle Breedbunch of the Holstein Cattle Breedbunch of the Holstein Cattle Breedbunch and the farm. The annuunces and the farm that the farm. The annuuncement, the farm the farm. The manufacture of the farm that the far

Quebec Holstein Breeders

The annual meeting of the Quebec branch of the Canadian Helstein-Friesian Cattle Breeders' Association Friesian Cattle Breeders' Association Friesian Cattle Breeders' Association Helstein Cattle Breeders' Association Cattle Breeders' Cattle Bre The annual meeting of the Quebec

I H C CREAM HARVESTERS MEAN MORE THAN BREED OR FEED

Right breeding and right feeding are essential to the greatest milk production. But that alone does not mean greatest cow-profits. You must get all the butter-fat to put your cows on the biggest profit basis.

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will soon own an I H C.

ooly ones with their superior construction—their many special advantages. You will find that they are the one of the superior of the superior construction of the superior construction

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Criticism on a Recent Issue

Criticism on a Recent Issue

Editor, Farm and Dairy:—I have been much pleased with Farm and Dairy, and although not actively engaged in the Dairy business, I am Jarry, and although not actively engaged in the Dairy business, I am Jarry and a small way, devoting most of my energies to growing fruits and expectables. I have seen many good things in your paper. Your issue of Feb. 24, is before me. It is very integent of the second of the privilege to the second of the privilege comments on the second of the privilege comments on the second of the second of the privilege comments on the second of the second of the privilege comments on the second of the se

FEEDING TURNIPS TO COWS

PEEDING TURNIPS TO COWS
One instance I have in mind at present, is a man who milks about 40 cows, winter and summer, who feeds white turnips, tops and all, by the wagon load, in the fail, while the cows are on the grass, simply scattering the turnips as they are pulled, and letting the cows eat them off the ground about the pasture. Then when the cows go into the stables he has a large quantity of Swede turnips that large quantity of Swede turnips that he feeds during winter. His milk is argo quantity of Swede turnips that he feeds during winter. It is milk is kimmed, and the cream sold to confectioners in the city, and if there was a turnip flavor in it, I doubt if he could sell it. The Ottawa Darry Company's milk, which probably is the best in Canada, is produced all winter, and through the autum, very largely from turnip fed cows.

But the turnips are stored away from the cattle, and are red after the cows are milked, in small quantity to begin with, and the quantity gradual-ju increased, and the same amount fed at each meal and at the same time each day.

each day

THE POTATO SITUATION

THE FOTATO SITUATION

The remarks made by Mr. Leavens on "The Potato Situation," are much to the point. We certainly grow too to the point. We certainly grow too many varieties. If we would be guided by the reports of the Experimental Farm, and plant only one early and one late variety such as most highly one late variety such as most highly one had been such that the property of the potential of the property of the property of the property of agents of nursery firms, and so-called seed growers, who sell a dozen called seed growers, who sell a dozen varieties of potatoes out of the same bin, the greatest thing about which is usually the price. I know something of this matter myself, having bought 10 lbs. of each of nine so-called new varieties of potatoes for \$5.00, and after several years of carefully watching their growth, I concluded that I

KENDALL'S Spavin Cure The Court of the C

the name of.
The Editorial on "We need Fewer
Dogs," also pleased me. I will admit
that it may be advisable for a farmer
to have a good dog, but he should
never be allowed to see the cows. From
my experience, I am fully convinced
that the farmer who is making most that the farmer who is making most money out of his cows, is the one who has no dog, or at least, if he has one, he keeps him away from the cows. In one sense, I would welcome an out-break of Rahies in Eastern Ontario, if it would tend to exterminate a lot of our welcomes does not sent the sent of our welcomes. of our useless dogs. I estimate that Ontario has room for about 500 dogs, Ontario has room for about our dogs, but Ottawa alone, has, I believe, over 2,000. All over the country we see people too poor to feed their families decently, keeping two or three dogs, half starved, to pillage from their windshare.

THE EXPERIMENTAL FARM

THE EXPERIMENTAL FARM

THE HOWER TIGHT HARM

In the lower right hand corner of page 12, you ask why the Experimental Farm at Ottawa is not more popular. Well, Mr. Editor, I have had a very close relationship with the Experimental Farm for about 20 years, and my answer to your question is that, first, the officials on the Farm, while most courteous and obliging, have not seen fit to pander to the wishes of every person who has offered the properties of the wishes of every person who has offered making existence of the properties of the benefit of our people of the properties for the benefit of our people of the properties of the profit of the properties. As an instance, I was in conversation with a man yesterday who has a farm over in Quebec, and who has bought 250 apple trees to plant next spring, and most of them such varieties as Baldwin, Ontario, Gano, and Wismer's Dessert, which are absolutely no use in his climate. He lives within a mile of the Experimental Farm, is a prominent real estate agent of Ottawa, an intelligent and successful business man, but in place of doing as an inexperienced man should do, simply phone out to Mr. Macoun at the Farm, for a list of virieties suitable to plant in his location of the plant in the location of the plant in his location of the plant with the plant of the without the winter the plant in his location of the plant in the location of the plant in his location of the plant in the location of the plant in his location of the plan

UNPOPULARITY OF THE C.E.F. Another reason why the Experi-mental Farm is not more popular, is the fact that the majority of farmers

the fact that the majority of farmers, through the surrounding country call it the "Model Farm," and because it is not a paying proposition as a model farm, they condemn it as a bill of expense to the country. They look upon it from the wrong view point. It is not a Model Farm, and was never intended for such. It was started, and is being maintained at considerable expense, to experiment in feeding cattle, in growing crops, in varience. able expense, to experiment in feeding cattle, in growing crops, in variety cats, of grain, Iruits, vegetables cat leads, of grain, Iruits, vegetables and flowers, etc., and it is up to us, as citizens of Canada to avail our, as citizens of Canada to avail our, as citizens of Canada to avail our, as citizens of Canada time in efforts to grow undesirable and unreliable varieties of fruits, grains, grasses, etc. I consider that the experiments carried on at the Experimental Farm have been worth thousands of dollars to me, in fitting me for my business.

business.

You say that the Staff does not get in among the farmers as it should. I prefer to put it that the farmers do not get in with the staff on the staff of the staff o

had the old Maggie Murphy, Carman of visiting his fields during aummer, and seeing the fruits of his work and it is our loss if we do not do so.—
The Editorial on "We need Fewer W. J. Kerr, Carleton Co., Ont.

Tannery Refuse as Fertilizer

I annery Keruse as Fertilizer
I can get a quantity of transery refuse,
which appears to consist of hair, serapings of hides, salt, lime, etc. How much
ings of hides, salt, lime, etc. How
the salt with the salt with the salt
crops is it most suitable? Would it be
best mixed with farmyard manure or
with earth? My land is light sandy
soll. I grow eucumbers and cauliflow
ers, also rout crops, corn and grain—
J. W. J., York Co, Ont.

As the soil is sandy I should not advise the questioner to apply the materials mentioned in this letter. In the first place, I may say that hair and the scrapings of hides contain, it and the scrapings of hides contain, it is true, some introgen, but the nitrogen is in an insoluble form, and, secondly these materials do not decay very easily in the soil. Salt would be of no service on the light, sandy soil, and, therefore, the only constituent which would be secred in the lime. This could be secred. constituent which would be secured is the line. This could be secured cheaply and in some other form than that just mentioned. The hair and the scrapings of hides would on this

land, I feel sure, open it up and thus permit it to dry out too quickly in a dry season, and I am even inclined to believe that on the whole the farmer would not have as good a crop by the application of this material on such a soil as he would without it.

The property of the soil as the would without it. The season of the soil as the would without it. The season of the soil as the would without it. The season of the soil as the would be spined as the soil as the soil as the soil as the season of the soil as the soil as the season of the season of

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WEDNESDAY, MARCH 30th, 1910—

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AND RURAL HOME

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FARM AND DAIRY PETERBORO, ONT.

THE GOVERNMENT SHOULD ACT

So many foolish requests for assistance in one form or another are made extend. to the Ontario Government that it is refreshing to hear of one like that made recently by the united Counties of Northumberland and Durham for aid in the reforesting of the thousands of acres of waste land in their united Counties. Not long since the case was reported of a deputation, including several members of the local legislature, that waited on the government to ask for a paltry grant of \$50. One would think that the members of such a deputation would feel like hanging their heads in shame to belittle themselves in such a way.

In the case of the united Counties of Northumberland and Durham, the situation is utterly different. The situation that confronts the united counties is too large a one to be dealt with effectively by a purely local body like a county council. Every year the problem of how to deal with the waste land in these counties has been grow- business.

ing more acute as the area has extended. During the past few years scores of farms have been buried under blow sand. Unless action is taken quickly scores of additional farms will suffer the same fate within the next few years.

As this waste land, for the m part, is on a watershed, in which streams take their rise, the result of these conditions has been to dry up many of these streams, and thereby, injuriously affect thousands of acres of land in fertile districts adjoining.

It will cost from \$50,00 to \$100,000 to re-forest and take care of this land until the timber becomes marketable in size. If the work is to be done successfully, it is essential that it shall be undertaken in a systematic manner. and that the policy followed shall be continuous in its nature. This can be done best by a regular forestry bureau under government control which will be free from dictation by local interests. This is why it is not practical for the Counties' Council to undertake the re-forestation of such a large area of land. The Counties' Council recognizes this. It recognizes that the Government can obtain the money required at lower rates than the united counties can and that is why the Council has asked the government for assistance in this large problem.

The Council has practically asked the Government to simply loan the money that will be required to carry out the work of reforesting this land. It has offered to pay the interest on the money while the timber is growing, and ultimately to pay back the principal. Thus, the government will not be put to one dollar of expense. Was ever a more reasonable request made of a government? The government's own forestry expert, Dr. Fernow, has pronounced the scheme thoroughly practicable. He has shown that exactly the same principle has been followed in France and Germany. Here, then, is a chance for the Ontario Government to help a worthy cause. It is a form of assistance that the people have the right to expect their local governments to be accurate when properly conducted.

RIGHT METHODS IN CREAM TESTING

Farm and Dairy, in an editorial published January 13th, drew attention to the fact that the practice of using the pipette for making the Babcock test, as followed generally in creameries, is strongly to be condemned. Unlike milk, the specific gravity of cream varies so much that the testing of cream by the use of a pipette is wholly unreliable. The editorial in question has created considerable discussion. It develops that creamery men are willing to adopt the scales in place of the pipette for measuring samples of cream, which samples are to be used in determining the percentage of fat in the cream as furnished by their individual patrons, provided it is shown that such a move erage and speaking off hand put the of seeds free of cost. Samples of seed

Most States of the American Union published the record of one cow owned now make the requirement that in making tests of samples of cream for which any person is to pay on the basis of the amount of butter fat contained therein, these samples shall be weighed on scales sensitive to one-tenth gram, at least. Dr. C. A. Publow, of Cornell University, commenting upon this question, says that in most States it is considered a misdemeanor punishable by a heavy fine to distribute money for cream tested by the use of a pipette for measuring samples

Wisconsin in her dairy laws requires that cream shall be tested by weight, the standard unit for testing being 18 grams. J. Q. Emmery, Dairy and Food Commissioner for the State, writing to Farm and Dairy states that the law has been in operation since 1903 and that scales are now exclusively used for the purpose of testing; furthermore that the law has proved an advantage in that it gives patrons their just dues. Some Farm and Dairy correspon-

dents have advanced the claim that the displacing of pipettes by scales will not cure all the evils of the creamery business. No one expects that it will. The whole path of cream testing is full of possible sources of error. And the method so largely in vogue, that of using pipettes, is one of the worst. According to Dr. Publow a difference of nine per cent. is possible in samples measured and weighed. It would seem therefore that the only proper thing to do is to adopt the scales in our creamery work. Further and convincing evidence of the need for using the scales, rather than the pipette, is given on the creamery page of Farm and Dairy this week. The tables presented show a difference in samples measured and weighed of as high as seven per cent; furthermore that the per cent. of fat as determined by the Babcock method where the amount taken is weighed, is practically identical with that determined by the chemical method, thus vindicating the Babcock test (if such were needed) and proving it to

The errors in conducting the Babcock test with the pipette as a means of measuring has become a serious matter. If the creamery is to advance as it should and if patrons are to be dealt by justly, we must resort to a more accurate means of determining the per cent. of fat in creamthe Balcock test in which the gravimetric method in determining the amount of the sample is used.

MILK VS. BEEF

Not long since, an admirer and advocate of the beef animal was inclined to doubt the statement of a Farm and Dairy representative, that in comparison beef and milk would stand two to one in favor of the dairy cow as a producer of human food, reckoning solids only. Our representative wishing to be well within the av-

by the dairy department of the University of Missouri. Her record many times doubles that of the best record possible for any steer. In one year, this cow produced more human food in milk than is contained in the complete carcasses of four steers weighing 1,250 lbs. each.

In the light of such facts, is it any wonder that dairying is becoming more and more popular and that as the price of land advances dairying is resorted to more and more.

A WISE RECOMMENDATION

The Canadian Commission of Conservation, which has Hon. Clifford Sifton as its Chairman, and Dr. Jas. W. Robertson as one of its officers, is taking its work seriously, and since its start has made an excellent impression. Recently the following resolution was adopted by the Commission:

"That in future no unconditional 'titles to water powers should be giv-'en, but that every grant or lease of powers should be subject among others to the following conditions: "1st. Development within a specified time

"2nd. Public control of rates.

"3rd. A rental with the power to refuse same at a later period."

In harmony with the foregoing resolution the Commission has taken a strong stand against the proposition to dam the St. Lawrence River at the Long Sault, or to any similar proposition involving the construction of a dam across the St. Lawrence.

We are in great need of an organized body such as the Conservation Commission to protect the rights of the people. Practically all of the great fortunes that have been made during the past century in both Canada and the United States have been acquired through securing the control of monopolies in one form or another, thereby enabling a few men to squeeze the public for their benefit. A favorite form of monopoly has been the control of water powers. If the Conservation Commission can succeed in preserving the rights of the public to their water powers it will save hundreds of millions of dollars to the people of Canada. As farmers, we should back up every public movement of this kind to our utmost. The resultant Lenefits will flow back to us, directly and indirectly, through many channels.

ANALYSIS OF SMALL SEEDS

One cannot exercise too much care in making a selection of the small & seeds, grasses and clovers. It is an easy matter to overrun a farm with various forms of noxious weed life obtained in grass and clover seeds. Many of these weed seeds to the unpractised eye are difficult of detection. In the past we have unwittingly overlooked weed seeds that in after years have resulted in veritable plagues and have caused much loss.

Machinery is now provided whereratio two to one. In reality it is sent to the Botanical Department of higher. Elsewhere in this issue is the Ontario Agricultural College, of f be g num and few win we h new duri had neces Br

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number of clubs of subscriptions Farm and Dairy has secured during the past few months from parties desiring to win some of the pure-bred young pigs

few months from parties desiring to win some of the pure-bred young pigs we have been giving away for seven new subscriptions. The number of orders received has been so great that during the past few months we have had serious difficulty purchasing the necessary stock from the breeders. The section of the necessary stock from the breeders necessary stock from the orders are always of the necessary stock from the precessary stock from the necessary stock from the precessary stock from the necessary stock from the processary stock from the nest of the nest of the nest of the necessary stock from the prices, that they have been asking for their pigs. The result is that Farm and Dairy has been forced to pay more for the pigs that it has purchased, and we are, therefore, unable to continue our offer to give a pure-bred, young pig for only seven new subscriptions before we will have to ask our subscriptions before we will be able to furnish them with one of our pigs. It will the new offer the present the spring litters will have the present of the principle of the property of the present of the principle of the property of the present of the principle of the principl

OUR ILLUSTRATIONS ENJOYED

Every now and then we receive letters from readers expressing their apreciation of the clearness of the illustrations that appear in Farm and Dairy. We are pleased to find that our illustrations are enjoyed because it costs us several thousand dollars more a year to use the fine quality of paper on which Farm and Dairy is printed than it would to use a cheaper grade. The illustrations we have been publishing of the homes of some of our prise winning farmers appear statement of the property of the control of the property of t Every now and then we receive let-

Spicial Good Farms Competition

In addition to the dairy farms' competition conducted for the Province of Ontario last year by Farm and Dairy two special competitions were held, open to all classes of farmers. These competitions were confined, one to Peterbore county, and the other to Durham county. The winners in the Peterbore county competition were asterbore county, and the other to Durham county. The winners in the Peterbore county competition were announced some time ago, but their losers were not published in detail. Coleman, Ont., for securing a club The winners in the Durham county competition are herewith announced by the competition are herewith announced.

Guelph, or forwarded to the Seed Branch, Department of Agriculture, Ottawa, will be analyzed and reported upon and through this means we may know just what is contained in a given sample of seed. If you would reap the benefit of this service, get samples early of the seed you intend to purchase and have an examination made. Then buy accordingly.

PUBLISHER'S DESK

PIGS ARE POPULAR

No Letter evidence of the number of farmers that are going back to bog-raising as a result of the higher prices being paid for pork could well be given than is turnished by the large number of clubs of subscriptions Farm and Dairy has secured during the past few months from parties desiring to win some of the pure-bree does not be seen to be considered to the pure-bree does not be seen to be for the first time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the first time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart time. They are published herewishes used to a total the fart. He fart time. They are published herewishes used to a total the fart. He fart time. They are some as to a total the fart. He fart time. They are some as to a total the fart time. They are some as to a total the fart time. They are some as to a total the fart time. They are some as some as to a total the fart. He fart time. They are some as to a total the fart time. They are some as to a total the fart time. They are some as to a total the fart time. They are some as to a total the fa

or his farm.

The farm of Mr. Smith, and of his The farm of work it with him, is a treat to visit work it with him, is a treat to visit work it with man of the man o the farm. Several issues of Farm and Dairy is an item had been and a bairy be devoted to describing features of the farms of the farm with subtraction of the farm with subtraction of the farm with subtraction for the farm as liver medal in the compatitions had many years ago, has a number of strong points that enable it to easily surpass a large proportion of the farms throughout the country.

THE PETERBORO COUNTY FARMS Most of the farms in the Peterboro Most of the farms in the Peterboro county competition have already been described in part in Farm and Dairy. A description of Mr. Brethen's farm and methods is given on page 3 in this

The scores of the prize winners in the Peterboro and Durham County competition are published on page 4.

Leaders in Forestry Movement

Leaders in Forestry Movement
The members of the deputation
which forms the subject of our front
cover this week, reading from left to
right are: A. A. Colwell, Newcastle;
J. J. Preston, M.P.P. Bethany;
Alex. Wight, Bowmanville; Joseph
Hickson, Mt. Horeb; Herbert Rosevar, Port Hope; Warden A. L.
Boyce, Dartfort; James Byers, Purple
Hill; Alfred Sherwin, Roseneath;
John Henry Devitt, M.P.P., Blackstock; C. J. Thornton, M.P., Kirby;
A. A. Powers, Ornon; Daniel McColl,
Wooler; R. S. Caldwell, Osaca.

The Grain Growers of Saskatchewan The train drowers of Saskatchewan who met in convention at Prince Albert recently passed a strong declaration for free farm implements, which was incorporated in a resolution as follows: "Whereas Canadian machinery can be purchased at from ten to thirty per cent. less in Great Britain than in the Canadian west, and wherethan in the Canadian west, and where-as we believe, such conditions are caused by the protective tariff exist-ing at the present time, therefore be it resolved that immediate steps be taken regarding the said striff so that the home purchaser may at least be able to purchase as cheaply as the outside world."

YOU ARE RIGHT

If you decide that in the selection of a

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for your dairy you are safe in following the course taken by more than 1,000,000 users

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VANCOUVER

SCARCITY OF PIGS

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.

Circulation Manager

FARM AND DAIRY

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READ THIS

Dairymen who are using THE EASY RUNNING CAPITAL SEPA-RATOR realize its superior features, but to those that do not know THE CAPITAL we would ask them to try it and be convinced. In offering THE CAPITAL to the Canadian Farmer, we are convinced of the fact that we are offering him the lightest running separator on the market, a feature alone giving it preference. The small bowl and simple gearing found only in the CAPITAL accounts for this. We use the disc system of skimming, but so devised and applied as to insure ease of washing and perfect skimming.

Write us for full particulars.

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IS THE DAY

Not to be Tolerated

Miss Laura Rose, Dairy School, Guelph

In Farm and Dairy, Feb. 17th, this In Farm and Dairy, Feb. 17th, this statement, by a creameryman of Victoria Co., Ont., stood out prominently, "I would rather have dirty cooled cream than clean, uncooled cream in cream than clean, uncooled cream in the state of the cream o

There should be no preference given whatever to dirty cream, whether it be cooled or uncooled. Surely after all that has been taught, written and legislated for, in regard to raising the standard of our dairy products by pro-ducing cleaner milk, such a state-ment comes as a shock.

ment comes as a snock.

Cleanliness is always first, then
comes the cooling. They go hand in
hand and cannot be separated and
comparisons between cleanliness and comparisons between cleanliness and coolness should not be made. Dirty milk is such a serious thing, no concession should be given it on any ground. We know the need and value ound. We know the need and value quick and thorough cooling, but anliness comes before, afterwards cleanliness comes ani at all times.

Accurate Determination of Fat in Cream

It has been shown in the columns of Farm and Dairy in recent issues that the volumetric system (pipette) of determining the amount of the of determining the amount of the sample of cream for the Babccek test is unreliable. The pipette does not do justice to the cream. It puts a premium on poor creem. Many of the States in the American Union have passed laws making it unlawful to passed laws making it unlawful to the pipette in cream testing. Sec-tion 33 of the Agricultural Law of New York State prov.des, among other things as follows: things as follows:

things as follows:
"No person or persons receiving
or purchasing milk or cream upon the
basis of the amount of fat contained
therein, shall credit any patron or
patrons delivering milk
thereto with a greater or lesser the
thereto with a greater or lesser of fat DON'T PUT OFF
Seeing your friends and having them
Join in for a club of subscribers to

ployed by him for that purpose may at any time assist in making tests of milk received at a butter or cheese of the purpose of determining the form of the tests usually made at such factory of the such purposes using other than standard because the such that the such factory of the such that the such factory of the such that the such th

cream, the Commissioner of Agriculture has cale a series of experiments to be performed at the New York State College of Agriculture, Ithaca, N.Y., by our chemist connected therewith upon fifteen different samples of cream with the results as set forth in the following table:

amount of sample.—Geo. L. Flanders

amount or sample.—Goo. L. Flanders, First Assistant Commissioner of Agri-culture and Counsel." In view of these facts what should our dairymen do in this matter? What do you think about it?

Returns from the Creamery

When milk is separated on the farm, what is the price paid per cent. for the butter fat in the cream delivered at the factory? How much would it net per 100 pounds of milk?—J. V., Aultsville, Ont.

The price paid for cream at the creamery depends upon the market price of butter and further upon the are in doubt as to the advisability of using the scales, and who deem the pipette quite accurate enough to meet all requirements, should give careful study to the following extract from a circular sent out by the New York State Department of Agriculture:

"For the purpose of determining the accuracy of the methods used in ascertaining the amount of fat in cream, the Commissioner of Agriculture in as caused a series of experiment of Agriculture in as caused a series of experiment of Agriculture (North State Department of Agriculture). system in vogue at any particular creamery for dividing the proceeds.

At the recent Bedford District Dairy-men's Convention, held at Cowansville, Que., President Foster announced that the Government would send men to, each of the counties in that district to take up more in detail the problems of handling milk and feeding cows,

PERCENTAGE OF FAT IN CREAM.

	P	resh Swee	t Cream.		The Same Cream Preserved Two Weeks						
	Babcock	Method.			Babcock 1		Sublimat	te.			
	Measur- ing 17.6 C.C.	Weigh- ing the amount taken.	Differ- ence,	Chemical method.	Measur- ing 17.6 C.C.	Weigh- ing the amount.	Differ- ence.	Chemical method.			
1 2 3 4 5 6 7 8	14.30 20.20 27.00 33.00 36.40 42.20 48.50 57.00	14.50 20.80 28.20 34.80 38.50 44.90 52.00 63.50	.20 .60 1.20 1.80 2.10 2.70 3.50 6.50	14.42 20.91 28.27 34.96 38.84 45.10 51.93 63.60	14.00 20.00 26.90 33.00 35.90 41.50 47.80 57.00	14.30 20.80 28.20 35.00 38.80 45.30 52.40 64.00	.30 .80 1.30 2.00 2.90 3.80 4.60	14.49 21.02 28.30 35.08 38.81 45.24 52.26			

PERCENTAGE OF FAT IN CREAM

	Babcoc	k Method.	Weighing	Differ- ence.	
Composite samples of cream	Sample No.	Measuring 17.6 C.C.	the amount taken.		Chemica method.
preserved with corrosive sublimate, collected daily, and tested at the end of ten days.	9 10 11	32.20 37.00 46.50	34.00 39.80 50.50	1.80 2.80 4.00	33.97 39.89 50.42
Sweet cream separated 24 hours when tested.	12 13 14 15	20.50 31.00 41.50 49.20	22.50 33.00 45.80 54.80	2.00 2.00 4.30 5.60	22.61 33.19 45.66 54.93

It will be noted from the results indicated by the above figures that in each instance the result obtained by the weighing or gravimetric method of determining the amount to be of determining the amount to be tested is nearer the percentage and the results produced by chemical analysis than the results produced by testing the other sample, the amount see to it that they test and handle of which was determined by the measuring or volumetric method. It is sibe. uring or volumetric method. It would, therefore, seem that in order to comply with the requirements of the statute it would be necessary for to comply with the requirements of the statute it would be necessary for persons making the tests for butter fat in cream, to determine the amount to be tested by the gravimetric or weighing method rather than by measuring. It seems that this is the most accurate way now known and its use, therefore, is imperative under the statute above quoted, which provides statute above quoted, which provides result to the control of the standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as fallows:—"I received the pig sent methods know a factually contained in the recease. Such a requirement necessitives the most accurate methods know as the contained of the received for the standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know a factually contained in the received for the standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know a factually contained in the picture of the standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know a factually contained in the picture of the standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know and the picture standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know and the picture standard varieties, as per our devertisement in another column. As ubscriber wrote us recently as follows:—"I received the pig sent methods know and the picture standard varieties, as per our devertisement in another column. As ubscriber wrote us requested as premiums. We would that we entable know a few collections and the picture standard varieties, as per our date withand that we would premie the would be a subscriber wrote us reque

"it will be noted from the results and that these meetings would be thorand that these heetings would be thor-oughly advertised through the press, and would probably be held at Bed-ford, Knowlton and Waterloo.

Is Well Repaid

Is Well Repaid

Our pig offer is proving so popular that we are unable to supply all the pigs requested as premiums. We would like to secure several pure bred pigs of the standard varieties, as per our advertisement in another column.

A subscriber wrote us recently as A subscriber wrote us recently as follows:—"I'r received the pig sent me by Farm and Dairy from Mr. W. F. Elliott, of Coleman, Ont., in return for securing a club of seven me the picture of the pig sent in the picture of the pictur

Our Big Dairy Special Will Appear

ARE YOU going to take advantage of the EXTRA CRULATION this number will give you as an ADVERTISER to reach the best class of Farmers in the autime when they need your goods, and you want to sealing if you would, drop us a card requesting space, at the entire as our weekly edition (7 cents per line) and we will reserve it for you, but don't wait until the last minute before serve it for you, but don't wait until the last minute before better grow will receive.

better location you will receive.

THIS SPECIAL NUMBER is for Dairy Supplies, Gasoline
Engines, Silos, Cream Separators, Roofing, Fences, Stock
Foods, Cattle Remedies, and anything that a Farmer can use
at this time of year.

DOI'T FORGET-HE WILL BUY THEM, BECAUSE HE

NEEDS THEM.

April 2nd is the last day on which we can receive copy.

FARM AND DAIRY . . PETERBORO, ONT. gri-

uld

plies*

Dr. W. T. Connell, Kingston Dairy School

A subject to which considerable attention has again been given is that of water supplies at factories and at farms. During the past year over two-thirds of such samples submitted have proven to be infected with dangerous forces of hasters. It observes rave proven to be infected with dangerous forms of Lacteria. I class as dangerous those forms which can be traced as originating from the intestinal discharges of animals or men, or in the case of factories as coming from factory drainage or whey. Of course it must be remembered that I am only sent samples which have fallam only sent samples which have fall-en under suspicion, so that my figures do not represent the condition of the farm and factory wells in Eastern Ontario. Still I think I can state that quite one-third of the wells at farms and factories are so situated as to be open to pollution from surface drain-age or from seepage from manure piles, stables or pig-pens, or from house wastes. house wastes.

house wastes.

I find it a difficult matter at times to convince factory owners, etc., of the correctness of the reports, and have often had flung at me when my report has condemned a farm house supply, that the water has been used for 20 or 30 years without falling un-der suspicion, hence my analysis must be wrong. Still the sight and smell of polluting material fails to convince

PERSONAL EXPERIENCE

I can best illustrate this by telling what I myself saw this past season at a factory shortly after it had been rea factory shortly after it had been re-built on site of previous one. The fact-ory was quite well situated on a sandy ridge and very little care would pro-vide good drainage and with that a good water supply could be assured. The floor of the make room was of

*Part of an address before the last convention of the Eastern Ontario Dairy men's Association.

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and make a specialty of installing Cheese and Butter Plants

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New Dairy Books

"Questions and Answers on Buttermak-ing," by Dr. Charles A. Publow; "Ques-tions and Answers on Milk and Milk Testing," by Dr. Publow and Hugh C.

That You Should Have Are written in simple, interesting style, and contain the very informa-tion that you want.

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FARM & DAIRY Peterboro, - Ontario

Cheese Department
Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to senders with the department, to ask questions on the wall with an elevated, open the wall with an elevated, open trough, with very frail supports which relatively because the wall with an elevated, open trough, with very frail supports which ran to whey tank some 30 feet away. There was no outside drain and the connection between the gutter and open trough permitted considerable splashing.

Now the well was within 12 feet of the connection and inside the engine room with mouth covered by open the connection and Inside the engine room with mouth covered by open grating through which ashes, chips, etc., readily made their way; further the soil about the well was a loose sand. One day the whey trough fell down but the whey was run out just the same, and of course the well be-came the whey tank that day. But this fact did not stop its use, nor did a similar accident a few days later. The cheese began to be complained of, cut in price and then the assistance of the instructor was wanted to assist of the instructor was wanted to assist in determining what was the matter. By this time the water was very foul, but it did not enter into the cheese maker's own head that this could be the trouble—it only had whey in it you know. A visit by Mr. Publow and a plain talk of what had to be done at once convinced them, but it cost them \$400 in cuts in price of cheese.

DIFFICULT TO CONVINCE My point is that if it was difficult My point is that if it was difficult to convince people when there was visible indication of pollution in the water and when the nose made one aware of it when one entered the factory, how much harder it is to convince men, when such tangible evidences are lacking.

dences are lacking.

It seems to me to be an essential It for factories and dairy farms to provide safe water, or in other words free from pollution by excreta of man and animals or factory drainage. More care will have to be taken in location of wells, the protection of their mouths and in freeing the drainage area from excrement of men and animals and from slop and other drainage waters.

The Dairy Industry

J. A. Ruddick, Dairy Commissioner Those engaged in the several branches of the dairy industry are now turning their attention to the coming season of 1910. The cowa are reported to be coming through the winter in good condition, and that makes in production for a good beginning in production.

If attendance at dairy meetings is any indication of real or active in-terest in dairy work, there never has been a time when interest has been keener. Officers of this branch have addressed a large number of meetings during December and January, and they report an unusually large atten-dance of farmers and their families.

Reviews of the season of 1910 by apporters of Canadian cheese in Great Britain contain frequent reference the harm which is being done to Canadian trade by the continued ship-ment of green cheese. The shipment of immature cheese has been encouraged by the falling off in the Canadian exports, which has brought the consumptive demand and the supply much nearer together than they form-erly were. With New Zealand cheese erly were. With New Zealand cheese supplying a large part of the demand in the winter months, the tendency is for Canadian summer-made cheese to go into direct consumption. There is therefore more reason for giving the cheese time to mature well before shipment than there was in the days when market conditions made it necessary to hold the cheese in storage for weeks and even months after it left the factory.—Extract from Census and Statistics Monthly.

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

Pasteurization of Whey

Frank Herns, Chief Dairy Instructor,

Frank Herns, Chief Dairy Instructor, London
Ninety-four factories pasteurized
the whey last year; 22 factories fed
the whey at the factory, leaving 95
factories out of 211 not pasteurizing
the whey. The average was .204 per
cent. The average per cent. of fat
in the whey returned in the patron's cans where not pasteurized was .1 per cent. The average acidity of the whey cent. The average acidity of the whey returned in the patron's can pastour-ized was .37 per cent. The average acidity of the whey returned in the patron's cans not pasteurized was 1.2 per cent. These figures are prac-teally the same as last year. The average length of time required to heat the whey to 155 degrees was

hours. The average time the remained above 150 degrees was .49 hours. 2.4 hours. At a few factories they did not do a first-class job in the pasteurization of whey. Several rea-sons for this fact might be mentioned. sons for this fact might be mentioned. Some factories are not you properly equipped for this work. The boilers too small, tanks too far from the factories, water supply short, and insufficient attention paid to the general conditions, necessary for proper results. However the majority of the factories have done the work well and the nations some to be well satisfied. the patrons seem to be well satisfied and quite willing to pay their share of the cost of pasteurization.

The patrons should in all cases pay the cost and I wish to point out that

when makers receive pay for the work they should in every case use their best efforts to see that the very best possible work is performed.—Extract from Annual Report on work of In-

I admire the method "Farm and Dairy" has of rewarding club raisers for new subscriptions by giving free pure bred stock as premiums. This method tends to interest the young folks on the farm and improve the swine herd at the same time.—G. B. Gould, Edgar's Mills, Ontario.

JOHN HALLAM, TORONTO

Too bad any woman must wash a com-plicated cream separator. Too bad any one is misled into thinking complicated bowls are necessary. LOOK AT THE UPPER PICTURE.

Those 52 disks were all used in one common disk machine that was discarded for a Shar-

ples Dairy Tubular.

LOOK AT THE LOWER PICTURE. It shows the only piece used inside the wonderfully light, simple, sanitary, easy to clean, wear a life time Sharples Dairy Tubular Cream Separator Bowl. Any wonder Tubulars prob-

ably replace more com-mon separators every year than any one maker of such machines sells? Tubulars skim faster and cleaner than any other sep-orator. Tubu'ar sales exceed most, if not all, others combined. The manufacture of oulars is one of Canada's leading indus-s. The only modern separator—The



Write for our new Catalog No.

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

Make a big profit from every cow. know what your cows are doing? Do you know which ones are eating their heads off? It will pay you to get rid of the robber cows. The Automatic Milk Scale and The Facile Jr. Babcock Tester ow you in a short time which cows in your herd are paying a profit. The Automatic Scale is made especially for weighing milk in the pail. The screw when the pail is on the hook. Then when the pail of milk is placed on the this indicator gives the exact net weight of the milk. It has another indicator the corect the same as any spring balances so it can be used for weighing any ting up to The Facile Jr. Babcock Tester is designed on the fac Our free catalog shows everything for m dealers and dairymen at lowest prior W.A.DRUMMOND & Co. 177 KING STREET E



PERFECT STEEL CHEESE VAT

Our 1910 Steel Vat is going to be just a little better than ever before Can't improve much over last year —it was a dandy. The tin linguign in this year's vat will be 20 gaze—the heaviest ever used—4 gauges —the heaviest ever used—4 gauges heavier than your local tiname will be done to the control of the

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

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

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CONSCIENCE is nothing else but the echo of God's voice within the soul. -E. B. Hall.



The Binding Tie

By Emily Ruth Calvin. (Continued from last week)

put ner hand on her husband and pushed him away.

"Oh," she cried, "you cruel, cruel man! How can you hit a tiny baby? Oh, I hate you—I hate you.—She fell beside the crib, weeping. Her hand reached out blindly for the child. She went hystarically for conscioud. child. She wept hysterically for some moments, Doane standing near her. His face was livid, and when he spoke his voice held a note that his wife had never heard before. She shivered, but

never heard perone. looked up at him. "If I struck a tender thing like that "If I should slowly, "I should in anger," he said slowly, "I should deserve your words. If you can think that of me then I do not wonder that you hate me." hate me.

Elizabeth did not answer. The baby

was quiet and the mother tucked the little comforter around him.

The episode was closed, but the remembrance of it clung painfully to parents.

Summer with its beauties came; but Summer with its peauties came, but in Elizabeth's heart was no joy. She turned more and more to her baby for love and comfort. Doane was inconsiderate and at times boorish. Some-siderate and at times boorish. siderate and as times boorian. Some-times an entire evening passed with-out conversation between husband and wife. Never again did Doane attempt physical punishment of the child, if spatting the tiny hand can be called

by so harsh a name.

They had always gone to a quiet country place for their vacation.

Elizabeth wondered if Doane could get away this year. They had grown so far apart that she would not ask him. But he introduced the subject himself.

'I think I can manage to leave the business for a time," he said. "Can you be ready by Monday?" "Yes," Elizabeth answered, "and I

think the change will do the baby

"Isn't he old enough now to called by his proper name?" as Doane snappishly.

Doane snappishly.

"He's not a year old yet," she answered. "I hope there'll never be answered. "I'm glad you feel so," Doane muttered; "if there's such unhappiness with one I don't know what there'd be with two,"

For the first time in many weeks.

For the first time in many weeks Elizabeth looked straight into her hus-Elizabeth looked straight into her hus-band's face. He was now always cross, she thought. But she noticed with a little start that his face had grown thin and worn. His hand moved rest-lessly among the papers on the table. "Are you nervous?" she asked

gently.

The look of gratitude which he gave

LIZABETH ran to his side. She had been concerned about him.

pushed him away.

"Oh," she cried, "you cruel, cruel
yound him away.

"All thanks be had been concerned about him."

"No, I'm all right," he said slowyou hit a tiny baby?

for a few days."

Sa they started ma you fire.

So they started on a vacation. The So they started on a vacation. The Laby enjoyed the ride on the cars, but if Elizabeth left him for a mement he vigorously protested. Doane received many dark looks from the other trav-elers, for when the baby cried he re-mained indifferent.

mained indifferent.

The change, however, did not agree with the child He was fretful and Elizabeth was listed to the child him; he claimed he may be considered off alone into the woods alive with child him; he chaimed he would have been considered as the child him; he chaimed he woods alive with considered as the child have been considered as

So they went home. Doane felt that

So they went home. Doane felt that his vacation did him more harm than good, and Elizabeth wern out. The Sunday after Doane lay dozing on the househ the library. Elizabeth held a book who did not chain her wandering attention. The baby stirred uneasily in his carriage and the noise awakened Doane. Doane.

He lay for some minutes watching his wife. He loved the bright hair coiled low on her shapely head; her profile with its purity of outline touched his heart as of old. Mother-hood had given her charms. If she only loved him now! Doane wondered why the change had come; whether he had done wrong in any way. Then, lad done wrong in any way. Then, and the word in memory of the golden days passed, he puf out his arms. The he cried.

His wife turned. She saw his arms stretched toward her. She rose hastily to go o him. As she passed the perambulator she stopped to look at the haby. He lay for some minutes watching

the baby.

perambulator she stopped to look at the baby.

"Come to me," said Doane sharply.

"Come to me," said Doane sharply.

Silently she obeyed. He sat up and draw her to him, his face close to hers;
"you are my wife, the way."
"You are my wife, the way."
"I don't know, Doan way."
"I don't know, Doan way."
"I don't know, Doan be seen to way.

He tightened his hold, and his hungry lips sought hold, and his hungry lips sought hold, so we seen to whimper. Elizabeth started up away from the encircling arm of her husband.

swiftly to the child, and, raising him, held him with a passionate delight to her body, kissing his hair, his eyes and his dimpled chin. The telephone bell rang. Doane did not move, and Elizabeth, placing the baby gently in his carrier,

not move, and Enzabeth, placing the baby gently in his carriage again, an-swered the bell; but she heard the in-sistent cry as she stood at the tele-

when she entered the room a few moments later she found Doane lean-ing over the child. A quick thought urging her forward, after for the in-her hands stretched forth in entreaty. "Doane Doane," she called, her voice shrill with fear, "don't hit him again. The misstead!"

again. Hit me instead!"

Doane looked around at her. He
kept himself from falling by grasping
the handle of the carriage. His eyes
flashed and his lips parted thinly over
his teeth. The baby was crying in a
wohlmad way.

subdued way.

"Do you think me a monster?" said
the man. "Is not the child as much
mine as yours? Whose fault is it that
he is everlastingly crying? Will he mine as yourse whose fault is it that he is everlastingly crying? Will he thank you for your selfahness in years to come? Don't come near me," he cried in terrible excitement. "I've cried in terrible excitement. Twe stood tortures since he came. You told me that you hated me. I don't hate you, but don't speak to me

again."

The words fell on Elizabeth's ears with a terrille force.

"Doane—Doane!" she cried.

"Doane—Doane!" she cried.

"Doane—Doane!" she repeated, now mechanically, "I'm not worth speaking to. I've fallen so low that my wife comes pleading to me when my wife comes pleading to me when she finds me bending over her child. Kepp him out of my sight hereafter. Kepp him out of my sight hereafter. When a said it was Heaven to have a said to have a sai

Doane relapsed into silence. He

Donne relaysed into silence. He raised his hand to his head and for a moment looked at her blankly. Elizabeth resolved to eat thereafter in solitude. She moved that the spare room and thought bitterly that Doane should be obeyed. She would neither speak to him nor see him. The night after his outburst Doane went upstairs. Opening the door of his room he looked criously about him. Then he called: "Elizabeth!" No answer came. He heard the

No answer came. He heard the ound of a rocker and followed it to

sound of a rocker and followed it to the spare room.

"What are you doing here?" he questioned sternly.

"If you remember," Elizabeth re-plied calmly, "you asked me not to speak to you."

Doane stared at her almost stupid-ly, and the same blank look darkened his face.

his face.
"Several things have escaped my memory lately," he answered; "I don't remember that. You want to be more alone with the child. I'm in the

Elizabeth looked back at him sharply.
"You didn't ask me to refrain from

speaking to you?"
"No," he answered; "you are mistaken. But you may keep away from me if you desire. I'm as lonely now as I can ever be."

words touched Elizabeth, she did not reply. The child lay biting his thumb.

"Do you want him to bite his thumb?" he asked, as if seeking information.
"He's teething," said Elizabeth

curtly.

"Oh, I just wanted to know,"
Doane answered. "I expect a visitor
tonight," he added; "try to keep the
boy quiet."

band.
"Don't go, Beth," he pleaded.
"The Luby, Doane!" she said hurriedly. "He needs me."
"And I don't." he said hitterly.
His arms fell inertly. She moved

"Doctor!" she called, "I—I did not know you had been sent for."
The doctor stopped for a moment. I'm sorry to tell you, Mrs. Grantly, he said, "that your husband is in your housband is to have a superior of the said, "that your husband is less that the said, "that your husband is less that he isn't irritated. Nothing serious," he added, trying to still the alar has targed quickly through her and sent the vivid color to her face, "to many business cores. He came to see me today and I promised to look in on him again tonight. Make caine to see me today and I promised to look in on him again tonight. Make him stay at home for a week, and let him have all the rest and sleep possi-ble."

ble."

He passed on and Elizabeth remained in the doorway, a deadly fea."
clutching at her heart. H Doane
should be till? If he should be taken
from her? Then she crossed the room,
and, drawing a low chair to the window, looked out into the quiet night.
As a girl sha was always self-angler. dow, looked out into the quiet night. As a girl she was always self-analytical. Had she been just to Doane, she wondered, Then the sharp thought caught and held her: Had she been just to the baby? His father evidently did not care for him. She looked lovingly at the crib. Doane had missed the clinical sweetness of this dayling. lovingly at the crib. Doane had missed the clinging sweetness of that darling baby. Why? Suddenly she knew. He had missed it because she had inter-fered—interfered with his fatherhood rights. She had kept the baby to her-self when he was good and lovable, and had allowed Doane to knew only his cross, swing model.

seit when ne was good and ovanue, seit when ne was good and ovanue, and had allowed Doane to know only his cross, crying moods
Still she went on pitiesly with her self-examination.

"Put yourself in your husband's place," said an insistent inner voice.
She did. She saw herself suddenly she was the saw him letting on the threshold, neglecting on the threshold, neglecting on the threshold, neglecting the child grow up undisciplined, while the saw has the boar steel misudged; she was helpes to de anything; and bitterly she was the saw Doane steel misudged; hands to her and implore her not but a clinging, helpes her was the she was the was th

result of the inharmony in his one? At the thought Elizabeth was

home? At the thought buzzabeth was filled with sorrow. Then her determination came strongly forward. There should be an-other home-making. She felt sudden-ther home-making. other home-making. She felt sudden-ly that she was competent to take the roins of this mismaged house and alling husband into under the she had been wrong, entirely so she had been wrong, entirely so she permitted this Promised Land, to which they had looked longingly be-fore baby came, to be turned to a Sodom. Through her thoughtlessness she had put strengthe enough into Sodom. Through her thoughtlessness she had put strength enough into baby fingers to draw two well-beloved persons apart!

persons apart!
She went to the crib and stood looking at her child.
"They'll draw us together again, my
son," she said, "and very soon."
The doctor left. Elisabeth went
quickly down the hall and pushed open
the door of her husband's room from
which she had so recently flitted. He
lay on the bed, his eyes closed. How
worm he looked. She sank by his side
and placed her cool hand on his brow. worn he looked. She sank by his side and placed and pla

"No, Doane," she whispered; "try to sleep. Next day he was somewhat better.

(To be concluded next week) Renew your subscription now.

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The Upward Look น้ำจะจองจองจองจองจองจองจองจ The Broader View

Thy will be done in earth, as it is in Heaven.—Matt: 6, 10.

Not until we recognize that God desires to give us every good and perfect gift, including not only spiritual but material blessings as well, is it possible for us to express the prayer "Thy will be done," in the spirit most pleasing to God. Too many well meaning Christians repel rather than encourage others to become Christians by the manner in which they speak of being resigned to God's will. They give the impression that they consider that we cannot hope to understand and that, therefore, we must be prepared Not until we recognize that God dethat, therefore, we must be prepared to submit meekly, when adversity or troubles overtake us. This is true, but it is only half of the truth. This half truth has kept and is to-day, keeping many people out of the king-dom of God,

dom of God.

The full truth is that God's will is
the grandest and best thing that can
happen to us. "No good thing will
He withhold from them that walk uprightly." (Paalms 84, 11). "Delight
thyself also in the Lord and He shall
give thee the desire of thine heart."
(Paalms 37, 4). "If ye then, being
evil, know how to give good gifts unto your children, how much more shall
to your children, how much more shall to your children, how much more shall your Father which is in Heaven give your father which is in Heaven give good things to them that ask Him?"
(Matt 7, 11.) "If ye abide in Me and my words abide in you, ye shall ask what ye will, and it shall be done unto you." (John 15, 7.) Do these glorious promises indicate that God desires that we shall be deprived of any pleasures or advantages that are likely to be for our good?

The glorious truth is that God will

The glorious truth is that God will give us good gifts beyond our utmost expectations if we will but trust Him and do His will. His command is that we shall "seek first the kingdom of God and His righteousness, and all these things shall be added unto us." (Matt. 6, 33). When we seek God we will soon realize that earthly riches, when compared with spiritual blessings, are of comparative unim-portance. And not until we recognize this fact and wisely control material

When, therefore, trouvies come up When, therefore, trousies come upon us we must not conclude that God does not intend to give us good gifts, and meekly sit down, fold our hands, and conclude that there is nothing for us to do but be resigned. Such action to do but be resigned. Such action [604]'s us to do but be resigned. Such action merely indicates lack of faith in God's promises. Instead, we must recognize that God sees something in our lives that is sinful. If we do not know what that is shiftly. It was to he had been it is then we must wait humbly upon God and ask Him to show us what it is and when He has done so we must

immediately put it out of our lives, counting not the cost. It may be pride, lack of faith, selfishness, unpride, lack of faith, selfishness, un-worthy aims or some other similar sin. Acting thus we will soon find that even our worst troubles are really nothing but blessings in disguise in-tended always to draw us nearer and nearer to God and to help us to be-come worthy to receive His promised blessings. Once we realize this great truth we will be able to say "Thy will be done," with joy in times of ad-versity as well as while enjoying pros-perity for we will realize the great. versity as well as while enjoying pros-perity for we will realize the great, principle that underlies the assurance: "That all things work together for good to them that love God, to them who are the called according to His purpose." (Romans 8, 28)—I.H.N. ...

Our Winter Sports

"I am sending Farm and Dairy an illustration of my cousin Emma and me and our great White Man.
We live in the country about three miles from the town. There are plenty of amusements there, but in the country it is quiet. My little cousin comes to play with me on Sat-

perfect manners repeated in her children.
Great, rough men and noisy, busy
boys will always tone down their voices

boys will always tone down their voices and step lightly and try to be more mannerly when she stops to give them a kind word and a pleasant smile, for a true woman will never fail to say and do all the kind, pleasant things she can that will in any way help to lift up and cheer those whose lives are shaded with care and toil. The mother of today rules the world of tomorrow

Home Remedies

Never be alarmed if an insect en-ters the ear. Pouring warm water into the canal will drown it, when it will generally come to the surface and can be easily removed by the surrace and can be easily removed by the fingers. For Lrittle finger-nails anoint the nails at the roots every night with vaseline or dip them in warm sweet

variably see her habits of speech and the sprain moist, renewing the lotion occasionally

occasionally.

If you shut your finger in a door or bruise it in any way, put it in water as hot as you can bear; in a few minutes change the water for hotter and keep the finger in water at least fitten minutes. If the foot is bruised, it is a fit to be a said stocking and keep the inger in water at least in-teen minutes. If the foot is bruised, take off the shoe and stocking and immerse it in hot water from fifteen to thirty minutes, adding hot water

Anyone suffering from rheumatism should wear woolen clothing always next the skin, and be very careful never to get the feet wet or sit in damp clothes. If very thirsty—which is sometimes the case with rheuma-simulatus Tuy milk and soda—no stimulatus Tuy milk and soda—no stimulatus Tuy milk and soda—no towel.

Thirst and great dryness of can be easily removed by the fingers.

For Lrittle finger-nails anoint the nails at the roots every night with vaseline or dip them in warm sweet oil. This will cause them to grow better, and they will not split.

An excellent remedy for sprains is to boil wormwood in vinegar and apply it hot to the injured part, with a sufficient wrapping of cloths to keep



Two Farm and Dairy girls enjoying winter sports. Read how they made their snow man. What other sports have our boys and girls for winter? Write our Household Editor and send snap shots

urday and we go to school during the week so we have only one day for

So this day after a slight snow fall, we were tired of a sleighride, so we made our White Man. We tramped the snow down hard, then we rolled our big ball of snow. We made a second roll. It was a little hard work second roll. It was a little hard work to lift the second upon the first, but we succeeded. Then we made a little ball for a head which we placed higher up. We bunthed for a hat which we soon found. Of course it was not the style for nowadays. We marked the man's eyes. I guess there are many girls who would like such a man these days."—Gertie Oldfield, Parry Sound District. On. District, Ont.

Mother's Influence

Mother's Influence

It is hard for a young mother, who has not yet overcome the wayward tendencies of her own youthful nature, to realize the influence she exerts over her little ones. She is constantly surrounded by critical imitators, who copy her morals and manners.

As the mother is, so are her sons and daughters. If a family of children are blest with an intelligent mother, who is dainty and refined in her manner and does not consider it necessary to be one woman in the drawing-room and an entirely different person in her everyday life, but and it is not the surrounder of the



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Home-work in Schools

BY A SCHOOL MA'AM

I know very little about farm work except through the children in my school. I should like to speak about Home work, its use and abuse in Pub-

To make homework of any To make homework of any use 1 would have it of an entirely different nature from what the children have been doing in school all day.

At night let the girls Le taught

sewing. That is an accomplishment no girl should be without, and knitting, crochetting and all kinds of fancy work would be of much more

fancy work would be of much more lasting value to most girls than any problems of School work that could be set them by any teacher.

Another thing that should not be neglected is music. If the girls and boys too, had time for the necessary practising, it would soon be a source to be them and a pleasure to all the facility of the property of the con-cession of the contraction of the con-cession of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the cont

When the family is the family make little things that would be used to be made little things that would be used to be use

SCHOOL LIBRARY

All country schools now have libraries. The children are supposed to read books of history, ravel, fiction, etc., to supplement to read books of history, ravel, fiction, etc., to supplement the supplement of the control of the country of the children to bring home good books, and instead of sitting down to lessons, read aloud? The benefit to the children themselves would be very great and lasting. In olden times when light was scarce, one sat by the candle and read and the others worked as they listened. One old New England farmer when asked what he did in the winder when asked what he did in the winder of the country of the control of the country of the cou

The only reason "Homework" is abused when it is given by most teachers became in its father was to be abused when it is given by most parents demand all, is that most parents demand all, is that most parents demand the state of the parents were only will be in the parents when there is. Unless Mary and Johnnie are kept busy from tea-time till they go to bed, with "readin", ritin', and "rithmetic," their parents think they surely can't be doing anything at school, and express their opinion quite plainly. Personally, I do not believe in "Home-work" at all in the Public School.

When children have studied with scarcely a break from 9 till 4 and in most cases walk a mile or more to and from school, their minds and bod-ies should be given complete rest— and with children "a change is as good as a rest."

plenty of it. There is usually plenty of work that could be done by both boys and girls out of doors. Interest them in gardens of their own or chickens. Any work or amusement that keeps their minds stimulated and sends them back to school next day fresh, full of life, and ready for the day's work.

. . . Don't Neglect Your Boys

BY A FATHER

Every boy is going to have a confidant, some one to whom he can tell his secrets and whisper his hopes and his secrets and whisper his hopes and ambitions which he would not breathe to others. We take it for granted that the praish his mother will stand nearer to him than any other person, but every bow will have some male friend who will stand in a peculiar relation to him. I know a relation to him. This friend, this confidant, should be the feature of the present that the first present the

You can not afford to have your boy feel that you are too busy or too

Some fathers constantly nag, find fault, and never think of praising their sons or expressing any appreciation of their work, even when they can be couraging. Set there is nothing so encouraging. Set there is nothing so encouraging. Set there is nothing so encouraging the control of the set of the finds it hard to go, especially if he finds it hard to go the find it has been praise. This is why most of them praise. This is why most of them praise the fathers—because their mothers are more considerate, more appreciative, more affectionate, and do not hesitate to praise them when they do stall. They are naturally more gonerous with them; less exacting than their fathers.

their fathers.

I know a man who takes a great deal of pains to keep the confidence of his pet dog. He would not think of whipping or scolding him because he would not risk his affection, but

The living room in a farm home. The furnishings are not luxuriant, but simple and useful, well chosen and appropriate. We usually get too much furniture and brie-a-brae in our rooms, the absence of which is shown in the above illustration. Too much is worse than too little.

indifferent to tell him how to fly his kite or bait his hook or make a toy or to play games with him. If you begin early enough, it is comparatively easy for you to gain your boy's confidence. From infancy, he should grow up to feel that no one else can take your place; that you stand in a peculiar relation to him, which no one else can flat.

I, do not encourage the reading of cheap novels or useless books that are very apt to make boys and girls discontented with their homes and lives and which in that way often does harm. Good books never injure. Children are troublesome only when they are idle and a love of reading —whether out of the newspaper, the farm journal or the library will turn many a restless boy and girl into a quiet happy worker.

The only reason "Homework" is abrised when it is given by most teach: any intimacy between you and your

KEEP HOLD OF THE BOYS

One of the bitterest things in many

One of the bitterest things in many a business man's life has been the discovery, after he has made his money, that he has lost his hold upon his boy, and he would give a large part of his fortune to recover his loss. I have been in homes where the relation between father and sons were so strained and formal that the latter would no more think of making a confidant of their father than they would of a perfect stranger. They a condant of their father than they would of a perfect stranger. They have been reluffed, snubbed and scold-ed, so unkindly treated that they would never think of going to him for advice, or with any confidential mat-ture.

It is a most unfortunate thing for a boy to look upon his father as a task-master instead of a companion, good as a rest.

After sitting still all day indoors, task-master instead of a companion, they need exercise and fresh air—
to dread meeting him because he ai-

indifferent to tell him how to fly his kite or bait his hook or make a toy for to play games with him.

If you begin early enough, it is comparitely easy for you to gain your boy's confidence. From infancy, he should grow up to feel that no one has a boy to grow, to develop the best thing in him in such an atmosphere?

... Cultivate Cheerfulness

Cheerfulness will attract more cus Cheerfulness will attract more cus-tomers, sell more goods, do more busi-ness with less wear and tear than al-most any other quality. Optimism is the greatest business-getter, biggeest trader, the greatest achiever in the world. Pessimism has never done any-thing but fare dawn and dastrow what world. Pessimism has never done any-thing but fear down and destroy what optimism has built up. In the business office, as in society, everywhere, the favorite is always the cheerful person. Good-natured, cheer-

ways expects criticism or scolding ful people do not waste their vital DON'T NAG Some fathers constantly nag, find

real people do not waste their vital energy as rapidly as the grumbler or the too sober, too sad people. They work with much less friction. Good cheer is a great lubricant; it oils all of life's machinery. Shakes-

oils all of life's machinery. Shakespeare says:
"A merry heart goes all the day,
"A merry heart goes all the day,
"Your sad tires in a mile—a."
There is no other life habit which
There is no other life habit which
piness and satisfaction as that of benines and satisfaction as that of benines and satisfaction as that of belife the resolution to cultivate cheerful
ness is strongly made at the very outses, it will not be difficult to form
the cheerful habit, and it will be the
best protection against suffering and best protection against suffering and disappointment.—"Success."

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ALSO MONTREAL-WINNIPEG -VANCOUVER WRITE OUR NEARE

Use 4½ o Miss 2 ch, row— space again on th Turn as be 1 tr i 1 a a row a with c in t 2 ch, 1 tr. 2 ch, and r each d c.

NO. 4. Ver Turn, work the lastr, row; four the 4 of the Croewith I

chain, 2d ro tr, 2 the fo ch of with 3 tr, as be space space row— 3 tr a patter for th

If y get to own t hers. her ir not know thing friend becaus more : Do friend only o Be as

if she that p ment, up in friend If y

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ple. They

(Concluded from last week NO. 3. BABY SCALLOP PATTERN

Pretty Crocheted Laces

NO. 4. AN EDGING FOR BABY'S GARMENTS.

NO. 4. AN EDGING FOR BANY'S GAMMENTS.

Very fine crochet cotton, hook No.

4½ or 5. Begin with 8 ch. 1st row—
Turn, leaving 3 ch, and into the 5 ch
work 1 tr, 2 ch, miss 2 ch, 1 tr into
the last. 2d row—Turn with 3 ch,
3 tr, under the first 2 ch of the last
row; "4 ch, 1 tr, and repeat from "
four times into the loop of 5 ch. 3d
row—Turn with "5 ch, 1 d c under
the 4 ch of the last row; repeat from
"three times; 5 ch, 1 tr, on the first
of the 3 tr, of last row; 2 ch, 1 tr on
the last. Repeat 2d and 3d rows.

NO. 5. A PRETTY EINMING.

of the 3 tr, of last row; 2 ch, 1 tr on the last. Repeat 2d and 3d rows.

No. 5. A PRETY TRIMMING.
Crochet hook No. 4½ or 5. Begin with 11 ch. 1st row—1 d c in the 5th chain, 2 ch; 3 tr, 2 ch, 3 tr in the 8th chain, 2 ch; 3 tr, 2 ch, 3 tr in the 8th chain, 2 ch, miss 2; 1 tr in the last. 2d row—Turn with 6 ch and work 3 tr, 2 ch, 3 tr in the 8th chain, 2 ch; 8tr in the space of 2 ch of the 7th chain 1 tr, 2 ch, 3 tr in the 1 tr, 2 ch, 3 tr, in the 1 tr, 2 ch, 3 tr, 2 ch, 3 tr, 3 tr, 2 ch, 3 tr, 3 tr, 3 tr, 2 ch, 3 tr, 3 tr, 3 tr, 4 tr, 3 tr, 4 tr, 4 tr, 4 tr, 4 tr, 4 tr, 4 tr, 5 tr

DE DE DE Courteous Friends

If you want to keep a friend do not get too intinate with her. Have your own thoughts and permit her to have hers. Do not demand too much of her in the way of confidence and do her to have the too agreement to the second her in the way of confidence and do her in the way of confidence and do know why she does not do the same thing as you do. If you think your friend's style of dress is not beautiful, do not tell her. You only offend her, because deep in her heart she is convinced that she knows a great deal more about it than you do.

Do not find fault with your friend's friend, and do not expect to Le the only one owning a corner in her heart. Be as considerate of her feelings we.

only one owning a corner in her heart. Be as considerate of her feelings as if she were a stranger, and remember that politeness is an everyday garment, and not one intended only for high days and holidays. To sum it up in one sentence, preserve the courtesy of the beginning to keep your friendship to the end.

Habit of Reading

If you are not a habitual reader, begin now to form the reading habit. Good reading is a great life-improver; Good reading is a great life-improver; it will enlarge your mental capacity wonderfully. It will make you a full man, an interesting man; it will elevate your life standards. Your ideals will be higher; your views of life grander. Good reading will enrich your life immeasurably. You will grow fuller and noller; you will think more of yourself, and others will think more of yourself, and others will think more of you.

OUR SPECIAL SPRING FASHION ISSUE

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 three or four weeks. Look over the Illustrations in the fashion department and send your orders early. If you do not see the style illustrated, that you would like, advise us, and we will do our best to get it for you. Write all orders plainly, giving name and address, size and number of pattern desired. Address, Pattern Dept., Farm and Dairy, Peterboro, Ont. number of pattern desired. Address, Pattern Dept., Farm and Dairy, Peterboro, On.



The Russian coat closed from left to right is one of the very latest novelties. This one is cut to form the points at the lower edge that are so smart and so fashionable.

Material required Material required for medium size is 5½ yds 27, 3½ yds 44 or 5 yds 52 in wide, with 7 yds of wide and 5½ yds of nar-row banding to trim as illustrated.

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

SEMI-FITTED COAT 6584



The coat that ex-tends over the hips is among the latest and here is a smart example. It is made

and here is a smart example. It is made with deep narrow re-vers and is held by two buttons only. Material required for medium size is 5% yds 27, 3 yds 44 or 2% yds 52 in wide with % yd of silk for

with % yd of silk for facing.

The pattern is cut for a 34, 36, 38, 40, 42 and 44 in bust. It will be mailed on receipt of 10 cts.

POLONAISE OR DRESS TUNIC 6593



Every form of tu-nic is being much worn just now and this one is adapted to a great many uses. It can be made of contrasting ma-terial and worn over a separate gown, and it can be made either with three-quarter or short

quarter of shot-sleeves.
Material required for medium size is 5½ yds 27, 3½ yds 44 or 3 yds 52 in wide, with 4½ yds of band-ing.

ring.

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

BELTED COAT WITH PEPLUM 6589



Belted coats make a novel feature of incoming styles. This one is smart and altogether desirable. It includes a little vest that allows effective use of contrasting materials

Material required for medium size 41/2 yds 27, 21/4 yds 44 or 11/6 yds 52 in wide, with % yd of silk for trimming, 1/2 yd 27 for vest.

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



Shirt waiste finished with hems are amony the novelties of the season. This one includes also wide tucks over the shoulders and is singularly attractive. It can be embroidered as illustrated or left plain or trimmed with handling as like. left plain or trimmed with banding as liked, but embroidery is always smart.
Material required for medium size is 3½ yds 21 or 24, 3 yds 33 or 2½ yds 44 in wide.
The pattern is cut in sizes for a 3, 4, 56, bust and will be maillo cts.

38, 40, 42 and 44 in

GIRL'S DRESS 6594



DRESS 6594

Simple little frocks such as this are always attractive. It can be utilized for can be utilized for the control of the control of

CHEMISE NIGHT GOWN 6575



No night gown is simpler or prettier than this one. The sleeves are cut in one with it and there one with it and there is consequently very little labor involved in the making. There is no opening, it being drawn on over the head, and the fulness is regulated by means of beading threaded with rib-

Material required for medium size is 4½ yds 5c or 3½ yds of 44 in wide, 1½ yds of bending. 1½ yds of bending. 1½ yds of bending. 1½ yds of bending. 15 medium 35 or 40, large 42 or 44 in busi, and will be maded on receipt of 10 cts.

COMBINATION CORSET COVER WITH DRAWERS 6513



Combination garments are much in demand. This one has the great merit of closing at the front, and allows a choice of open or closed drawars. drawers.

drawers.

Material required for medium size is 3½ yds 36 or 2½ yds 44 in wide with 2½ yds of wide embroidery, 5 yds of narrow edging, and 2½ yds of beading.

The naturn is out

The pattern is cut in sizes for a 34, 36, at and will be mailed 38, 40 and 42 in bust on receipt of 10 cts



Long coats with deep openings are the latest shown for younger girls. This one can be made in two such different styles that it is practically two in one. With the plaited side portions it is dis-tinctly novel and graceful, without it

graceful, without it becomes a simple plain coat.
Material required for medium size is 6 yds 27, 3½, yds 44 or 52 in wide with ½ yd of silk for trimming.
The pattern is cut for girls of 6, 8, 10 and 12 yrs and will be mailed for 10 cts.

SEMI-PRINCESS DRESS FOR MISSES 6587



The semi-princess dress is a graceful one and it will be extensively worn

be extensively worn throughout the spring and summer. It can be made either high at the neck or without the chemisette, and with three styles of sleeves. Material required

Material required for medium size is 11 yds 24 or 27, 7½, yds 32 or 6 yds 44 in wide with 1½, yds of 27 in wide for banding, ½ yd 18 in wide for the chemisette.

The pattern is cut in 14, 16 and 18 yrs sizes and will be mailed for 10 cts.

MISSES' SEMI-PRINCESS COSTUME 6574



Semi-princess dress Semi-princess dress-es continue in vogue. The Dutch neck and three-quarter sleeves are becoming to most girls and are greatly in fashion. All seasonable materials that are appropriate for entire dresses can be used for this one.

Material required for 16 yr. size is 9½ yds 24 or 27, 8½ yds 32 or 5½ yds 44 in wide with 1½ yds 27 for the yoke, panel and trimming.

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

SEMI-PRINCESS COSTUME 6582



Semi-princess gowns will be extensively worn throughout the season. This one is attractive, at the same time is simple.

Material required

for medium size is 9% yds 24, 8 yds 27, 63/4 yds 32 or 5 yds 44 in wide with 1 yd 18 for yoke and cuffs; % yds 44 for sleeves puffs.

The pattern is cut for a 34, 36, 38, 40 and 42 in bust, and will be mailed on receipt



PAGE WHITE FENCES

Farms and Railroads. 14,000 miles of Page L. Our 1910 Fences are better than ever. Tage THE PAGE WIRE FENCE CO., LIMITED WALKERVILE TORONTO MONTREAL ST. JOHN WINNIPEG VICTORIA



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For steep or flat roofs, waterproof, fire-proof; easily laid; cheaper than other roofing.

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Here Are the Two Strongest Fence Locks Ever Made

The Fro.t Woven Fence Lock is the strongest and most secure Lock known. It will not work looses.

One reason is because it possesses more inches and wight of Wire than any other ock, Revenue Lock. But the principal reason is because the Frost method is the most practical.

Note the peculiar, pow-erful-looking "Knot." see the wonderful triple "Wrap." se eads cut close. (These closely-ds prevent springing.) This "Wrap" makes the Frost

The picture, alone, of the Frost Lock sould prove that no other Lock on earth

Lateral Not Kinked The Frost Lateral is not kinked.

The Lateral in nearly every other Pence is kinked. This weakens it. And when subjected to great strain: snap! she goes. Because all contraction-strain falls on the Lateral.

No other Fence Maker can make t Lock. We own the patent. And we be our Machines in our own Machine Shops.

So, you see, this wonderful Frost Lock can-not be duplicated—nor even imitated

Frost Metal Lock

The Frost Field-Erected Fence Lock permits the use of No. 7 Hard Steel Stays (a sizes larger and heavier than the Uprights used in Wover Fence). These are immovably bound to unkinked coiled Laterals.

The Lock on the best other Fence made is bout 60 per cent. weaker than the Wire.

But the Frost Lock is the strongest part of the Frost Field-Built Fence. Fallen trees, and other unusual tests, which have smashed other Fences to smithereens, have left the Frost uninjured.

This Frost Lock is the safest Field-Built Pence Lock ever made. It is the only secure Lock which will not injure the Wire in a Field Erected Fence.

Make Our Own Wire There are extreme weather changes in certain sections of Canada which mean a mighty short life to most Wire Fence. Very little Wire is made to fight off this Wire enemy. Such Wire might fill the bill in some climates it's simply unfit for Canadian conditions. Heretofore we used read. Heretofore we used read.

ourselves. But we had

We've engaged a Wire Expert with a years' experience behind him. And we've built special Wire-Making and Galvanizing Mills, and installed the most modern machinery made.

Through scientific Annealing, all Frost Wire is even in temper. It will stand against Canadian weather, no matter how severe-

Two-Thirds of Its Life

Two-thirds of the life of a Wire Fence depends upon its Galvanizing. When this two-thirds is killed—eaten away by rust—the other third is as good as dead,

Yet nearly all Wire is Galvanized too thinly. And, besides, it's merely "coated." That's because Zinc costs four times more than the Wire itself.

(We pay the highest price for Zinc,-and

But Frost Wire is Galvanized doubly thick.
And it is not merely "coated," either. The
Zinc goes down into the Wire, making the
Galvanizing a part of the Wire itself.
This
prevents Frost Wire from scaling.

This is possible only by the Frost "Pick-ling" and "Cleansing" process. It simply scours Frost Wire of every particle of grease and scale, leaving it as clean as a pin.

Frost Galvanizing will now stick to the Wire through thick and thin. No Galvanizing enemy can rust it. That's why the Frost will last to 15 years longer than most others.

Send for free Booklet and Samples

rost Fence

The Frost Wire Fence Co., Hamilton, Ontario Agents Wanted in Open Districts

Evergreen March (3896) at 7 years, 2 mos. and 4 days of age, 10.92 lbs. butter fat, equivalent to 21.16 lbs. butter; 5\(^3\).33 lbs. milk. Owned by G. W. Clemons,

5°335 hs. milk. On Owned by G. W. Usemous, St. George, On. Owned day G. W. Usemous, Rose De Kri Teake (6976) at 5 years, 3 mos., 22 says of age, 1422 hs. butter fat, equivalent to 1778 hs. butter; 40411, milk. Owned by G. W. Clemons, St.

milk. Owned by U. W. Clemons, Sc. Seorge, Ont.
Beauty's Buffalo Girl (3562) at 9 years,
Beauty's Buffalo Girl (3562) at 9 years,
9 mos., 18 days of age, 14.20 lbs. butter
fat, equivalent to 17.75 lbs. butter; 41.2
bs. milk. Owned by Tig Wood, Mitchell.

Ont.
Frau La Honda (6536) at 8 years, 8 mos.
and 5 days of age, 13.22 lbs. butter fat,
equivalent to 16.53 lbs. butter; 462 lbs.
milk. Owned by Samuel Dickie, Central

nilk. Owned by Samuel Dickie, Central Jusiow, N. S. Lottie La Honda (7868), at 13 years 2 toos 19 days of age: 13.2 lb. butter fat, loss 10 days of age: 13.2 lb. butter fat, loss 10 days of age: 13.2 lb. butter, 20.2 lb. butter fat, loss 10 days fat, loss 10 days

lbs. milk.

Thirty day record, 81.32 lbs. butter fat
equivalent to 101.65 lbs. butter: 2515.77 lbs.
milk owned by E. Laidlaw & Sons, Aylmer, Ont.

Mutual Friend Dione (8600), at 4 years
8 mos. and 18 days of age, 18.45 lbs. butter
fat, equivalent to 25.66 lbs. butter,
510.2 lbs. milk. Owned by Ac. C. Hardy,
Brochville, Ont.

No.2 108. milk. Owned by A. C. Hardy, Srockville, Ont. Miss De Kol Kent (7179), at 4 years, 9 nos. 4 days of age, 18.07 lbs. butter fat, quivalent to 22.59 lbs. butter; 566.1 lbs. nilk. Owned by E. Laidlaw & Sons, Ayl-ter, Ont.

mer, Ont.

Woodcrest Paxton (11512), at 4

years, 4 mes, 18 days of age, 1537 lbs.

Boutter far mes, 18 days of age, 1537 lbs.

Boutter far mes, 18 days of age, 1537 lbs.

Brockville, Owned by A. C. Hardy,

Erockville, Owned by A. C. Hardy,

Brockville, Owned by B. Boutter fat,

Prokula De Kol (658), at 4 years, 2 mes,

and 19 days of age, 1427 lbs. butter fat,

cquivalent to 17.53 lbs. butter; 454.1 lbs.

milk. Owned by Tig Wood, Mitchell, Ont.

Helben De Kol 2nd (6511), at 3 years, 1 me,

and 2 days of age, 1471 lbs. butter fat acquivalent to 12.39 lbs. butter; 422.5 lbs.

milk.

nilk.

Thirty-day record, 59.88 lbs. butter fat,
quivalent to 74.81 lbs butter; 1720.04 lbs.
nilk. Owned by E. Laidlaw & Sons, Aylaer, Ont.
Nellie Mercedes Beauty (7871), at 3 years

George, Ont.

Aaggie Emily (9681), at 2 years, 2 mos.
21 days of age, 11.60 lbs. butter fat, equivalent to 14.50 lbs. butter; 353.50 lbs. milk.

Owned by Samuel Dickie, Central Onslow,
N. S.

N. S. Quidee 3rd (19961), at 2 years, 5 mos. and 22 days of age, 11.40 lbs. butter fat. equivalent to 14.50 lbs. butter 73.71 bbs. milk. Owned by A. C. Hardy, Brockville, Ont. Inia De Kol Pietertie 5 rd (4910), at 2 years, 5 mos. 17 days of age, 19.08 lbs. 11.61 l

Onslow, N. S.

G. W. Clemons, Sec.-Freas.

Cured Sweeny.—I am using Gombault's Caustic Balsam on a had case of sweeny. The second application is showing very good results. It is worth double its price and is one of the greatest medi-cines I have ever used.—J. B. Tippett, Minnedoev, Manitoba, Cannda.

OFFICIAL SEVEN AND THIRTY DAY TESTS FOR JANUARY, 1910. THICK, SWOLLEN. GLANDS

Roar, have Thick Wind, or Choke-down, can be re-ABSORBINE

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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 distantly 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 accessible through the construction of Railways and Colonization Roads.

THE FERTILITY OF THE SOIL IS UNSURPASSED

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The Timber is in demand at a rising
price. Mining, Railway and Colonization Road Construction, Lumbering,
etc., afford work in
those who have not the madance to
those who have not the man on their farms continually. These
also provide a market for farm produce at prices unequalled anywhere. Notes the T. 8 where
Contenant for Terminum et the Terminum et the T. 8 where
Contenant for Terminum et the Terminum et the T. 8 where
Contenant for Terminum et the Terminum et the Cochrane, the Terminus of the T. & N. O. Ry. on the G.T.P. Transcontinental Railway, now under construction, is in the same latitude as the southern part of Manitoba, and 800 miles nearer the seaboard.

scaboard.

That the experimental stage is pais clearly demonstrated. The count is rapidly filling up with Settlers from any of the other Provincs, the United States and Europe.

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Red 800 unl over and abili kets. ling,

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The wheat found growi exagg be co easter the c Euroption, is no clined Chica \$1.04% pool nearly ious.
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MARKET REVIEW AND FORECAST

Toronto, Monday, March 7th.—The usual spring depression is in evidence all over the country, owing to the had roads, and the consequent unwillingness, or inshifts, of the farmers toget to the markets. With the advent of better travelling, there is no doubt that matters will resume a normal level. There is quite a just a ju

modation, but there is nothing of this sort apparent in Toronto.

The wave of prosperity that is sweeping over America seems to have extended as far south as Mexico, where the deposits have increased to such a large extent in the banks that these institutions have been obliged to refuse to pay interest on

Call money in Toronto remains at 4% to 5 per cent.

WHEAT

The bears are having their turn at the
wheat quotations now, as it has been
found that the rumors of damage to the found that the rumors of damage to the growing wheat crop have been very much exaggerated. The damage now seems to be confined targely to the wheat fields of eastern Kansas. In all other quarters, the crop appears to be in good condition, the crop appears to be in good condition. The control of the control of the control of the property of the control of the control of the second of the control of the control of the colined. At latest advices, May wheat in Chicago, was quoted at \$115%; July. clined. At latest advices, May wheat in Chicago, was quoted at \$1.13%; July, \$1.04%, and September, \$1.00%. In Liver-pool on Thursday wheat was quoted at nearly a penny lower than the day prev-

ious.

Local dealers make the following quotations: No. 2 mixed winter wheat, \$1.06 to \$1.07 No. 1. Northern, \$1.15: No. 2, \$1.11, on track lake ports. On the farmers' market, fall wheat is quoted at \$1.09 to \$1.10, and goose wheat at \$1.04 to \$1.05

a bush.

COARSE GRAINS

The grain dealers have distinctly felt the effects of the bad roads; hardly anything has been offered for sale this week. The following quotations are given: Oats C. W. No. 2, 425c; No. 3, 415c, on track Corners: No. 2 white, 38c, outside: No. 3 Te outside: 48c to 48c on track, Toron. 3 Te outside: 48c to 48c on track, Toron.

Peas, 83c to 84c outside; barley, No. 2, 55c to 56c; No. 3, 48c to 49c outside; rye, 67c to 68c outside; buckwheat, 52c to 55c

to 815-90 and No. 2, 814 to 814-90.

The prices for mill feeds are nominal.
Manitobs bran is quoted at 822 to 823,
Manitobs shorts, 823.50 to 824 a ton, on
track, Toronto. Ontario bran, 823 and
shorts, 824 a ton on track Toronto. Montreal prices are: Manitobs bran, 822 a
ton in bags; shorts in bags, 823 a ton. On
tario bran, 822 as 8250 to 825; shorts, 854 a

EGGS AND POULTRY

Eggs are still keeping up in price not-withstanding the large receipts. This is mainly owing to the fact that there are mainly owing to the fact that there are no storage supplies on hand and the daily receipts have to be relied on for supply-ing local demands. New laid are quoted at 30c a dozen. On the farmers' market, new laid eggs are quoted at 30c to 40c a dozen and store eggs at 25c to 23c a dozen. In Montreal the same conditions prevail as in Toronto and fresh laid eggs are selling at 30 to 30 to 40 to 50. The Americans are invading the with egg supplies and doubless this mare a lowering effect on the prices.

The demand for poultry squiet with prices ranging at last week's quietations; the same is true of the farmers' market.

HIDES

The following are the latest quotations:

The following are the latest quotations: No. 1, steers are the latest quotations: No. 1, steers are the latest quotations: No. 1, steers are latest quotations. On the latest quotations of the latest quotations of the latest quotations for seeds: Alsike, No. 1, 8 to 8 525; No. 2, 852 to 85.95; No. 3, 8475 to 85; red clover, 87.60 to 88.

No. 3, 84.75 to 85; red clover, \$7.56 to Montreal prices for seeds are as to lower. Montreal prices for seeds are as to lower. Aside No. 2, 87.25 to 87.50 No. 2, 85.05 to 87.50 t

at 28c to 38c, and tup nutter at zec to see a 18. Montreal the market is firm and a 18. Montreal the market is firm and Monitoba dairy is selling at 18c to 28c; western dairy at 28c to 28c at 1850, and tub butter at 28c to 28c at 1850, and tub butter at 28c to 28c at 1850 at 1850 to 1850 at 18

POTATOES AND BEANS

HORSE MARKET

HORSE MARKET

Horses are being bought up in such large numbers for the Northwest that it large numbers for the Northwest that it has been really a such as to whether a live question as to whether the such as th

LIVE STOCK

LIVE STOCK
The total receipts for Wednesday and
Thursday amounted to 184 carloads, containing 152 bead of cattle, 325 sheep and
lambs, 1300 hops and 130 calves. Many of
the cattle were of inferior quality, as
they have been for a few weeks back,
they do not be the cattle weeks back,
they do not be the cattle weeks
high as \$5.75 to 8.50 a. ev. Sheep and
lambs sold at good prices and hoge
showed a slight tendency upwards. Foltowing are the local dealers' quotations:
\$3.10 to 8.55; but \$5.0 to 8.50; medium,
\$3.10 to 8.55; but \$5.0 to 8.50; but \$5.0 to 8.50;

\$4.50 to 85. Butchers' cattle—Choice, \$5.60 to 85.80; medium, \$5.25 to 85.50; bulls, \$3 to \$4.50; cows, \$3.50 to \$4.50. Stockers—83 to \$4.60.

Feeders-Steers, choice, \$3.50 to \$4.50; ordinary, \$2.50 to \$3.50.

Canners—81.50 to 82.50.

Milch Cows—850 to 870; medium, 830 to
861; springers, 830 to 840.
Calves—84 to 87.50.
Sheep—Eves, 84.50 to 87.50.
1058—1075; iambs, 85.50 to 87.50.
1059—10.50, 86.70 to 89.76d and watered

89 to 89.15. 89 to 89.15.

In Montreal, two spring lambs were sold this past week at a little over 20c a lb., the two fetching \$20; and hogs sold at 89.50 to 89.75.

The Trade Bulletin's London cable says: "Canadian bacon, 67s to 72s."

PETERBORO HOG MARKET. PETERBORO HOG MARKET.

Peterboro, Ont., Monday, March 7, 1910.

"The delivery of Danish hogs on English
markets last week totalled \$3,000. The devery fair. The deliveries on the local
markets are light. The decore Matthews
Co. quote the following prices for this
week's shipments f.o.b. country points,
\$7 a cwt.; weighed off cars, \$5,55 a cwt.;
delivery of the country points.

MONTERS AND AND MARKET.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, March 5th. — The
strong market here for live hogs continues and prices have been advancing
steadily as a result of the keen demand
market opened with units market. The
25c over the price current the week before, and further advances have been
scored this week, the market closing with
818 the ruling price for selected lots
1818 the ruling price for selected lots
ord price here for live hogs, and there is
every prospect of these prices being maintained for some time.
Dressed hogs are quoted at from 813 to
Dressed hogs are quoted at from 813 to
Dressed hogs are quoted to the price
stock, but an advance is generally expected next week, owing to the increased
prices being paid for live hogs.

EXPORT SUITER AND CHEESE

EXPORT BUTTER AND CHEESE EXPORT BUTTER AND ChEESE
Montreal, Saturday, March 5. — The
market here for cheese is very firm with
prices well maintained on the small stock
remaining unsold. The bulk of this stock
consists of colored cheese, which are not
consists of colored cheese, which are not
leading to the colored cheese with the conmarket of the colored cheese are available.
Holders are very firm and are not disposed to part with their cheese under
12% to 12% for choicest September and
October make. There are a few white
cheese still unsold and holders are askcheese still unsold and holders are asksales have been made at these figures this
week.

ling 1.5c to los a in; for them, and some week.

The stock of cheese in the country is being steadily reduced, and the total on the lat of March was estimated to be about 5,000 boxes, about 5,000 boxes heing stored in Montreal and the balance in existence on the other side are comparatively small, the total being estimated at about 5,000 boxes less than at this time last year, and as the stocks in Canada are about 1,000 boxes less than at anda are about 1,000 boxes less than at this time last year, and as the stocks in Canada are about 1,000 boxes less than at this lime last year, and as the stocks in Canada are about 1,000 boxes.

The market for butter is very firm with

is about 60,000 boxes.

The market for butter is very firm with a good demand from all sources. Stocks in cold storage are rapidly disappearing and will be practically wiped out by the sources of the source of th

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Friesian Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

"WHAT ARE OUR DAIRY COWS FOR?" An Jowa man wishing to improve his herd by the purchase of a pure bred dairy bull, so as to gain a larger profit from the grades he will raise than he is able to get from his dairy ows, writes that he understands that H.F. breeders in making official tests, always milk three times a day, and asls: if I regard tests made in such a way as a fair measure of

made in such a way as a rair measure or capacity.
Well, what are our dairy cows for?, Do we keep them as lawn ornaments, or as a source of milk supply? Shall the dairy and rive his cows from door to door, as dairy cows and goats are driven in some countries, milking as much and as



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

often as his patronage demands as long as the supply holds out, or shall he use more improved methods? Shall we milk once a day, as was the practice some hundreds of years ago, and is yet the custom in some places, or shall we milk three times, as is the custom among the more advanced dairymen in Demmark? Shall the cow be given the opportunity Shall the cow be given the opportunity of the more as the capacity by the removal of her milk her capacity by the second of the milk her capacity as seems necessary or shall we did not set to our convenience in milking?

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

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

"O.A.C. No. 21" BARLEY

"O.A.C. No. 2!" BARLEY
This advertisement will not interest you
if you are content to grow the same old
if you are content to grow the same old
"O.A.C. No. 2!". barley that will yield up
to eight bushels or more per acre more
than Mandesheurt, then get your order in
than Mandesheurt, then get your order in
trash. but we have not raised the price.
\$1.25 a bushels; 10 bushels, \$1.00; 18 bushels
tall to be a second to the price.
\$1.25 a bushels; 10 bushels, \$1.00; 18 bushels
each case. Send money order, or mark
your checks payable at par. H. R. NIXON & SONS, St. George, Ont.

EARLY LEEMING SEED CORN

Grows tall and leafy, matures well, stands up well, makes better ensilage than any other variety. For sale by James Martin, at \$1.00 per bushel in ear or shelled, f.o.b. Amherstburg. Address Box 93.

SEED OATS

Scottish Chief, large white oat, strong scottish Chief, large white oat, strong straw, heavy eropper, grown in Huron Co. expressly for seed. Price per bushel, 60:, 10 bushel lots, \$5.75. Good cotton bags, 25e each extra. Samples on request.

ALEX. A. WATT, Brucefield, Ont.

HOLSTEINS

MAPLE LEAF STOCK FARM GORDON H. MANHARD

Manhard, Ontario

Breeder of Choice Holstein-Friesian Cattle At present I will sell 20 young cows, due to freshen in the early part of the winter.

Also a few young bulls.

E-11-3-10

FOR SALE, HOLSTEIN BULLS

One born Dec. 31, 1909. Dam's official record at three years old, 486 be, of milk and 21 lbs. of butter in 7 days. Bull calf born March 18th, 1909, dam Canadian Champion of her age; official record at two years, 434 lbs. of milk and 20 lbs. of butter.

DAVID CAUGHELL, Yarmouth Centre, Ont

RIVERVIEW HERD

FOR SALE. 2 Bull Calves, eired by Sir Angele Reets Segis, son of King Segis, world's greatest 5 year old sire, dam Awould's greatest 5 year old sire, dam Amould's Sire of Sir year old

P. J. SALLEY Lachine Rapids, Que.

LAKEVIEW HOLSTEINS LAKEVIEW HOLSTEINS
One bull ready for service and a few
ready shortly. All sired by Count Hengraveld Zayno De Kol. a son of Pitestrie
De Kol. a son of Pitestrie
De Kol. a son of Pitestrie
De Kol. Creamelle, has reord daughter
De Kol. Creamelle, has reord days, fat
averaging 5.4 per cent. Visitors met at
Hamilton Radial or Trafalgar Grossing,
Hamilton Radial or Calenter Ont.

E. F. OSLER, Bronte, Ont.

GLENSPRINGS HOLSTEINS

GLENSPHINGS HOLDILING
ONE BULL CALF, three months old,
from a dam that gave 12.70 lbs. last
year, testing 5.5 fat. [FFFERS from good
milking strains, left. Buyers will do well
to order bull calves for next year.
Will also sell one or two good COWS
Will also sell one or two good COWS
Will also sell one or two good COWS

cording to value as producers.

E. B. MALLORY, Frankford, Out

LYNDALE

Offers for sale young Bulls sired by s on of the highest record cow ever owner

in Canada.

SARA JEWEL HENGERVELD JRD.

SARA JEWEL HENGERVELD JRD.

A. R. O. 20,39 lbs. butter in 7 days. 12,37

A. R. O. 20,39 lbs. butter in 7 days. 12,37

But in 20 days. These bulls are all from official record dams, some of them from official record dams, some of them from official record daughters of "Count De Ko! Pletertie Paul," one out of a daughter of "Bright-10" one o BROWN BROS, LYN, ONT.

THE SUMMER HILL HEAD OF HOLSTEINS

In a comment with HAD of MOLSTEINS of the manifest of the mani

ed bull.

Come and make your selections
ONCE. Prices are right and everythi
guaranteed just as represented.

Trains met at Hamilton if advised. D. C. FLATT & SON, Millgrove, Ont

R.D. No. Farm Phone, No. 2471 Hamilton.

HOLSTEINS

WINNERS IN THE RING

Gold Medal Herd at Ottawa Fair and

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

Just the kind we all want. They combine CONFORMATION

PRODUCTION Bull and Heifer Calves for Sale from

Our Winners LES CHENAUX FARMS"

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

HOLSTEINS

FOR SALE.—Six Holstein bull calves, 8 nonths old, dams all have good 7 day records; all sired prices; also governed and service all sired by Cornelia's Posch, five times first prize pull at Toronto and London fairs. Also a cw females.

THOS. HARTLEY, Downsview, Ont.

HILL-CREST HOLSTEINS

HILL-OREST HOLSTEINS
Bull calves fit to head any horst for
sale. Sired by "Pontine Hermes" and
"Sara Jewel Hengerveid's Son." Bama agrand
young cows, with good udders and
teats, and best of breeding. These calves
are from one to two months old and will be
delivered at your station. Also two
per day das.

Der day das.

G. A. BRETHEN, Norwood, Ont.

NORTH STAR HOLSTEINS FOR SALE

Bulls ready for service, out of high test-ing A.R.O. dams, sired by Count Henger-red De Kol, a son of Sars Jewel Henger-veld Zrd, 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.

HOMESTEAD HERD OF HOLSTEINS Present offering-bull calves from high cord cows and Dutchland Colantha Sir

record cows and Dutchland Colantha Si 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

SUNNYDALE

Offers g-sons of Pietertje Hengerveld Count De Kol, the champion bull of the breed, the only one that has two daugh-ters that have made officially over 22 lbs. butter in 7 days. Book your orders now butter in 7 days. Book official record dams in our low good official record dams in our

A. D. FOSTER, Bloomfield, Ont. Hallowell Station E-5-5

AYRSHIRES

SPRINGBROOK AYRSHIRES Are large producers of milk, testing high in butter fat. Young stock for eale. Or-ders booked for calves of 1999, male and female. Prices right. Write or call on 1-24-10 W. F. STEPHEN, Huntingdon, Que.

AYRSHIRES. - Becord of Performance YRSHIRES. — Becord of Performance work a specialty; young bulls from B of P. cows, and cows that will go on at next freshening. Milk reports of dams, for everything.

JAMES BEQQ, Box 88, St. Thomas FOR SALE-AYRSHIRE BULLS

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



ROBT. HUNTER & SONS

Maxville, Ont. Long Distance Phone.

SUNNYSIDE AYRSHIRES Imported and home bred, are of the choicest breeding, of good type and have been selected for production. THREE young bulls dropped this fall sired by "Nether Hall Good-time"—26641—(Imp.) as well as a few females of various ages for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que. e in honse.) 0.5.19.10

STONEHOUSE STOCK FARM

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

Cows, also Bull Calves HECTOR GORDON, HOWICE, QUE.

-9-8-10

RAVENSDALE STOCK FARM Ayrahires, Cydesdales



and Yorkshires

W. F. KAY.

As our population and the cost of food products increases, milk as one of the products are of food products, will also increase the products of the products of the products of the products of the product of the produ

HOLSTEIN-FRIESIAN COWS ACCEPTED IN RECORD OF PERFORMANCE

HOLSTEIN-FRIESIAN COWS ACCEPTED
IN RECORD OF PERFORMANCE
Sherwood Edma's Paforit. (199), at 3
vears: 1206-25 lbs. milk and 394.73 lbs. fat
in 365 days; average per cent. fat, 3.13.
Owned by G. II. Shaver, Davisville, Ont.
Owned by G. II. Shaver, Lat. 326. owned
days: average per cent. fat, 326. owned
days: average per cent. fat, 326. Owned
days: average per cent. fat, 290. Owned
days: average per cent. fat, 290. Owned
b. India Owned Add. 373 lbs. fat in 262 days:
average per cent. fat, 3.70. Owned by S.
Lemon, Lynden, Ont.
Julia Arthur 2nd (6977) at 3 years: 9019
bs. milk and 321.71 lbs. fat, in 266 days:
average per cent. fat, 3.46. Owned by G.
Lilly Westwood 2nd (3566) at full gar.
Lilly Westwood 2nd (3566) at full gar.
Lilly Westwood 2nd (3566) at full age.
Lilly Westwood 2nd (3566) at full age.

W. Clemons.

Lilly Westwood 2nd (5866) at full age:
Lilly Westwood 2nd (5866) at full age:
Lill93.58 lbs. milk and 370.59 lbs. fut in 232
days: average per cent. fat, 5.19. Owned
by Thomas Hartley, Downsview, Ont.
Days Staple (7809), at 2 years: 10312.
Days Staple (7809), at 2 years

W. E. Mason, Tyrrell, On, Owned by
Wm. E. Mason, Tyrrell, On, Owned by
Wm. E. Mason, Secretary.

Quebec Holstein Breeders (Continued from page 10)

Quebec to the merits of the Holstein cow. Holstein breeders were building better than they knew as the day is coming when there will not be enough Holstein milk for the babies of the

Letters were read from Hon. Sydney



ROCK SALT for Horses and cattle, in tons and carloads. Toronto Salt Works. Toronto. Toronto Salt Works, Toron. G. J. CLIFF, Manager

Dr. Bell's Veterinary Medical Wonder cures inflammation of lungs, bowels and dneys. The auth century wonder. Agents wanted every county. Write for a free trial \$1 bottle. This fer only good f. r 60 days. Limited to too bottles. DR. BELL, V.S., Kingston, Ont.

AYRSHIRES

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

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

BURNSIDE AYRSHIRES

BURNSIDE ATROPHEMS
Having disposed of my 1999 importation
I intend leaving about March 1st, fo
another lot. I expect to have a numbe
of buils through quarantine by first weel
of June. Orders entrusted to me will be
the support of the support of the support of the support
young the support of the support o Burnside Stock Farm, Howick, Que

MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE.— Eoars and sows for sale. J. W. Todd, Corinth, Ont. Maple Leaf Stock Parm.

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 Harwood's farm will be published next

Fisher, Minister of Agriculture, Mr. George F. O'Halloran, Deputy Minister of Agriculture: Mr. J. D. Caron, Provincial Minister of Agriculture: Mr. J. H. Grisdale; Mr. Milton Hersey, Provincial Analyst; Mr. Joseph Ainey of Montreal; and Mr. L. J. Forget, of Montreal; argetting their inability to be present. Mr. Hersey stated in his letter, that the rumor stated in his letter, that the rumor that he was prejudiced against Holstein milk was unfounded as he was acquainted with the good qualities of such milk.

such milk.

A number of those present told of their experiences handling Holstein cattle. Speeches were delivered in both French and English. The speakers included: Mr. Ogden Sweet, of Sutton, Quebec; A. N. Deland; M. Neil Sangster, Mr. Forget, Hon, Joseph Benoit, Dr. Harwood, and Rev. Father Godin, of Vaudreuil. Rev. Father Godin, of Vaudreuil. Rev. Father Godin, speke of the splendid work being accomplished in the section by Dr. Harwood through the improved methods of agriculture that he was introducing. The members of the was introducing. The members of the sasociation expressed their appreciation of Father Godin's presence and of his efforts to make the occasion pass off pleasantly by electing him an Honorary Director of the Association. A number of those present told of

tion.
Others who spoke were Mr. H. E.
Channell and Dr. E. P. Ball, representing the Sherbrook Exhibition, who assured those present that the Management of that exhibition intends to do everything it is power here-after to encourage the Holstein breeders to exhibit at the Fair. A dairy test will be held at the next exhibition.

OFFICERS ELECTED

The election of officers resulted as follows: Pres, Dr. L. de Lot Harwood; lst vice-pres, Ogden Sweet, Sutton, Quo.: 2nd vice-pres, Neil Sangster, Ornstown, Que.; 3rd vice-pres, Jos. Ferland, Sorol, Que.; 4th vice-pres, Ferland, Sorol, Que.; 4th vice-pres, Robert A. Gillespic, Albotaford, Que.; Directors, P. J. Salley, Lachine Ranids; A. Forget, Felix Ashley, Marieville; Jas. E. Pettes, Brome; J. E. K. Herrick: Andrew Boa, Lachine: Dr. E. P. Ball, Rock Island; and Achille Gald, Herbert; See., F. E. Came, Montreal.

Mr. Forget complained that many the judges sent to the fall fairs roughout the province knew so little throughout the puvine knew so little about Holstein they were incompetent to judge the day suggested that the Association should endeavor to have competent should be a many of the fairs as possible should be a many of the fairs as possible should be a solution by Mr. Came, seconded by Boa, the directors were instructed to nominate judges for the fairs. On motion of Dr. Harwood, seconded by Felix Ashley, the Directors were asked to arrange to publish articles about Holstein cattle and milk in French for the benefit of the French in French for the benefit of the French For the Board of through

Another motion was passed urging Hon. Sydnev Fisher to arrange to have Holstein cattle kept at the Ex-

have Holstein cattle kept at the Experimental Farm at Ottawa.
Dr. Harwood, Dr. Godieau and Messrs. I. L. Lafleur and F. E. Came of Montreal, Dr. Hingston of Montreal and Mr. Neil Sangster, of Ormstewn, were appointed a Committee to wait on the officials at the City Hall wait on the officials at the City Hall

wait on the officials at the City Hall in Montreal to confer with them in regard to the standards for milk.

Dr. Harwood, Messrs. Sangater and Came were appointed to select judges for the county fairs and to interview the railway companies to use if the for the county fairs and to intercient the railway commanies to see if reduced rates could not be obtained for the annual meetings of the annual meetings of the section. Much of the success of the section ing was due to the efforts of Moras, J. E. K. Herrick and F. E. Came, who are doing much to advance the Holstein interests in the Province of Ouebee.

A description of the visit to Dr O-3-21-10 week.

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Mr

GRENVILLE CO., ONT.

CHARLESTILLE—Thore is an every keen demand for work hore and every few are to be had even at good prices. Some farms have been changing owners, prices ranging from \$500 for 50 acres, to \$500 for 68 and 75 acre farms. Farming from \$500 for 50 acres, to \$500 for 68 and 75 acre farms. Farming from \$500 for 68 and 75 acre farms. Farming for hay. Timothy sells for \$15 to \$16 a for hay. Timothy sells for \$15 to \$16 a for in; straw, \$50 to \$70 cats, \$46 to 50 a bush. bran, \$51 acres, \$100 cats, \$10

HASTINGS CO., ONT.

NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.

EDVILLÉ.—The annual meeting of the cheese factory was held on the 1st of Feb., and was largely attended by the patrons. All seemed to be well satisfied with the returns of the season. This factory with the new patrons of the season of the patrons of the patrons of the patrons during the long the patrons during its long career, which has fortunately been free from lesses by chere's charge of the patrons during its long career, which has fortunately been free from lesses by charge of the patrons during the same season of the patrons d

DURHAM CO., ONT.

DURHAM CO., ONT.

PLEETWOOD.—The anow is keeping on the ground in good shape, and fail grain the ground in good shape, and fail grain for the spring. A few farmers are getting scarce of fodder, and have been looking for hay and straw, but report it as being very scarce, and nearly impossible to get. Hogs are nearly all sold, and as several sows are missing, the scarcity will be great next summér. Hay is selling at \$11.0 \$15, cats, \$40; butlers, \$24, and \$40.0 \$15, an

OXFORD CO., ONT.

OXFORD CO., ONT.

GOLAPHE.—The great depth of snow makes it almost impossible to do any teaming. A great many stock sales are being held. Dairy cows and horses are very high. Cows going from \$0 to 80, and some even higher. Horses are selling very high how, and an auction sale the other day two sows, with very little breeding sold for \$155. Our Farmers Institute meetings are over, and were well attended. We were given a demonstration in judging dairy cattle and horses. The men in charge of it really have their much from their experience.—A. M. McD. WELLINGTON CO. ONT.

WELLINGTON CO., ONT. ELORA.—Turnips at the a bush., still continue to be placed on cars here, and

Remark-Black able for richness and pleasing flavor. The big black plug chewing tobacco.

OUR FARMERS' CLUB
ONTARIO
ONTARIO
ONTARIO
CHARLESTILLE—There is a very keen demand for work horses and very few are to be had even at good prices. Some are to be ladd even at good prices. Some from the continuous forms of the continuous forms of

BRUCE CO., ONT.

CLUNY.—The weather has been very cold. The snow on the roads has not read to the cold. The weather has been used are in good demand. The west, who are taking horses back with them. There was a meeting in the village of Underwood to get the feeling of the people towards setting a rural telephone line in wards setting a rural telephone line in each ward to make a personal canvass of the same. Cement has been used in horse partitions, a mould to form the post, and continue to front of manger. Wooden material and if smoothed well are very nice locking. Most farmers intending to do cementing next summer are hauling their gravel now.—J. MacK.

WATERLOO CO., ONT.

WATERLOO CO., ONT.

WATERLOO CO., ONT.
NEW HAMBURG. — Farmer's Institute meetings are well attended. Delegates to this township are oplendid practical men. Horses are selling high. Good teams sell for 865 and upwards: 850 was paid a constitution of the selling high. Good teams sell for 865 and upwards: 850 was paid as the selling high. Good teams selling high. The selling high selling h or good well attended woodland is a pay-ing proposition and it affords something to do in the winter season. Farmers' Club meetings are well attended, are popular and will soon become a potent factor for the farm community.—A.R.G.S.

ELGIN CO., ONT.

TALBOTVIILE.—Mr. E. Penty is feed-ing 26 head of big steers, besides 11 horses, a number of cows and young cat-tle. His plan of managing his steers is

borses, a number of cows and young cattle. His plan of managing his steers is
as follows. They all run loose in the coment stable, underneath one of his barns.
Here they have plenty of room and are
loved about four feet of manger space,
and their feed during the first month of
winter consists of unhusked corn. This
they soon lick up silek and clean, especially on cold days.

The stable of the state of the state of the
control of the state of the state of the
first his continued until the grass comes.
Then they II get grass and chop. This
first his continued until the grass comes.
Then they II get grass and chop. This
first high state of the state of the state
of asxing his cattle from the torture of
files, by allowing them at all times free
access to their winter quarters. He also
baces blinds over the windows, thus
reat in loy and contentment, and are unmolested by their summer enemies. The
owner considers this a paying investment
for the cattle grass wonderfully fast in
the cool of the day, then hurry away to
their MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.

MIDDLESEK CO., ONT.
DELLAWARE.—Rieady sleighing for over
two months with heavy snow is thought
by many to give promise of an early
spring and bountiful crops. The demand
for heavy horses for the West has been
keen and complaint is made that there is
not enough of the right sort to be had.
Consequently many inferior ones are being bought. The properties of the right of the
ground of the right sort to be had.
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ESSEX CO., ONT.

KINGSVILLE.—The fields are almost en-tirely covered with ice and people are fearful that wheat and clover will be com-pletely killed with the ice us it was about pletely killed with the ice us it was about three years ago, when not a single plant of clover was left on a ten acre field. Exist and north where there is more anow there would probably not be so much danger. The large amount of corn folder together with a good hay and straw crop, ensures abundance of feed. Horses are being shipped in greater numbers than in any previous year, and at record

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 PACTORY

\$9.00 a Cwt.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH,

HULL, -

NEW WESTMINSTER CO., B.C.
MATSQUI.—An excessively wet fall, immediately followed by freezing weather caught many potatoes undug, where they still remain. A few may come through all right, but 20 degrees of frost will not leave many. Stock are wintering well With an ordinary spring, there is plenty of feed. Hay sells at \$18 to \$20; oate, \$25 a ton; potatoes, \$00; beef, \$6 to 10c; veal, 12c; pork, dressed, 12c to 13c; eggs, 40c

priors. The great bulk of horses shipped from here are Petcherons, and they ser-tainly bring the highest price going—L.P. BRITISH COLUMBIA A. NEW WESTMINSTER CO., B.C. MATSULI—An accessively we tell.

SASKATCHEWAN

SASKATOHEWAN
HUMBOLDT CO, SASK,
ETHELTON.—This part of the province is well adapted for mixed farming. I sold this week eight head of cattle. Two of driven 29 miles. These cattle had not been stabled this winter. They got some grain to finish with.—M.

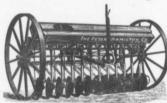
The fence that's strong all through

Every wire in our heavy farm fence is No. 9 hard steel, with ength and lasting qualities in each strand. A fence with any smi strength and lasting qualities in each strand. A fence with any small or soft wire in it is short lived. A chain is no stronger than the weakest link. Then PEERLESS Fence made from English wire is rust-proof—that withstands more than double the endurance of other makes.

Peerless the fence that saves expense

THE BANWELL HOXIE WIRE FENCE CO. LTD. DEPT H. HAMILTON ONT. WINNINGS MAN

Need a New Drill this Spring?



If so you had better try a Peter Hamilton Leader Drill, because you cannot buy any other that will give you as good satisfaction. We can give you which ever you need

Either Hoe or Disc

ANY SIZE

There is no other Drill like it, none so admirably adapted for all conditions of work, none so endurable or easy to operate, none so light of draft.

See our agent or send for catalogue and find out more about it.

THE PETER HAMILTON CO., Limited PETERBOROUGH, ONT.

BIGGER CROPS — BETTER GRAIN MORE MONEY

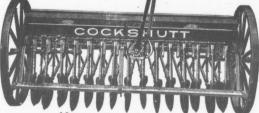
IS THAT WHAT YOU WANT?

IKE lots of other farmers at this time of the year, you are thinking of buying either a Disc or a Hoe Drill. Read this advertisement carefully before you decide-study the principle of

this Cockshutt Disc Drill-get our Drill booklet and go into this matter thoroughly, because here is a machine that will help you get better crops.

Cockshutt

New Model



15 Disc Drill

Also made with 13 Discs

HE particular advantage which the Cockshutt Disc Drill possesses, is that it sows the grain 6 inches apart—not 7 inches as is the usual method. Close seeding gives the grain a better chance to germinate—to sap all the nourishment of the soil. Thus the grain particular of the soil and better grain. Close seeding does not mean that you did and better grain. Close seeding does not mean that you do not man that you will not seed any you would with old style machines, but you plant will now seed—you simply plant the same quantity of see more seed—you simply plant the same quantity of see more seed—you simply plant the same quantity of see will now seed that you would with old style machines, but you plant with now of the young that the proper seed the proper seed the you shall be the young that you would with old style machines, but you plant with now of the young they young the young the young the young the young they young the young the young the young they young they young the young they y

us and get our very instructive booklet about it.

Booker aroun it.

The discs on this machine are 6 inches apart—not 7 inches like old style machines. Footboard runs the whole length of the machine, which makes it optional with the driven tether he walks or rides. Footboard can also be used for carrying seed bag to the field. The frame is built of high carbon steel, the corners being re-inforced heavy malleable castings and steel corner braces. The castings pressure bar and short self-aligning axles are rivetted to the strong I beam which runs the

whole length of the machine. One of the great advantages of this I beam is that it never allows the machine to sag in the centre. Asles are made of cold rolled shafting, always uniform in size made of cold rolled shafting, always uniform in size made of cold rolled shafting, always uniform in size made of cold rolled shafting, always made and the season. The grain flows down the closed boot right angle to give the wheels proper pitch. The season the closed boot right and the season that the season of the season of the size of the season of the size of the season depth. The space between the grain boots and dises gradually widens from bottom to top, preventing mud and trash stopping the size of the solit, these of the season of the solit, the solit season of the

automatically. We use metal bridges between feed cups to prevent grain from clogging, so that the last seed is sown out of the box at the same rate per acre as when the grain box

is full.
You can't realize all the advantages and improvements
of this Drill until you read full explanations in our
booklet. Don't buy a Drill of any kind until you read it,

Read These Letters—Then Write for Booklet

Cockshutt Plow Co. Ltd., Brantford, Ontario

Dairy Farm, Bay View May 31st, 1909

I purchased a Cockshutt 15 Single Disc Drill from your agent, Mr. J. H. Finlay of Collingwood, and I desire to state that I am more than pleased with the work done by it. After giving it a severe trial in lumpy ground, also in wet and sticky soil, I could recommend this drill to all farmers intending to purchase.

(Signed) R. S. BAKER.

Cockshutt Plow Co. Ltd., Brantford, Ontario Thorndale, July 20th, 1909

Gentlemen :-

Gentlemen:—

I have very much pleasure in recommending the 15 Single Disc Drill purchased from your agent, W. McMartin of Thorndal. After putting in seventy acres of spring seeding with two horses I think it the best drill I have ever seen, and the easiest to operate. I have not seen its equal, and think it has to be made yet. I cannot say too much for it.

(Signed) JOHN MORDEN.

OCKSHUT