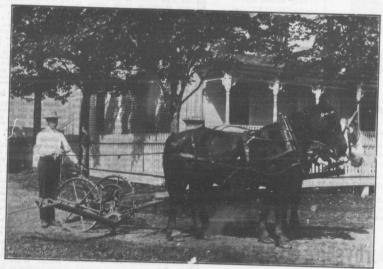
Issued Each Week Only One Dollar a Year

VOL. XXVIII

RURALHO

PETERBORO, ONT.

JULY 8.



A NOVA SCOTIA FARMER STARTING FOR THE HAY FIELD

At the head of the Cobequid Bay, near Truro, are located some of the best farms in the province. Broad expanses of marshland and fertile uplands produce heavy yields of hay, which is one of the chief products of these farms. At haying-time, hundreds of mowing machines, rakes and waggons may be seen at work at one time on the historical marshlands. The illustration shows Mr. Davidson Hill, of Central Onslow, and one of his mowing outfits, ready for the harvest.

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being honestly "Weighed" has come out "Not Wanting" in entire satis-

There are so many pleasing features regarding the "SIMPLEX" that ought to be mentioned here yet we cannot take time or space to give them, but we will give you one to think about.



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a man has, when a "SIMPLEX" can be had that will do away with this hard labor and give the utmost satisfaction.

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WE WANT AGENTS IN EVERY DISTRICT



Warden Powers on Good Roads Suggestion

Editor Farm and Dairy,-To the statements of Mr. B. Rothwell re the best manner to provide or the con-struction of good roads you append the query "What do our readers think of the suggestion?" The writer thinks it is certainly an improve it is certainly an improvement on our system, inamuch as the state contributes nearly 17 per cent. more than the government of this Province. In our opinion the Legislature would be heartily endorsed by disclosing similar liberality. Over there it appears that the county contributes 30 per cent., whereas under conditions between the county of the contribution of the contribution of the county of the count

onto, Mr. Editor, eliminate the county altogether?

One of the greatest objections to the initiation of the good roads movement has been the veaturess of the outlay and in counties such as Northumberiand and Durham with 15 rural municipalities it is not hard to find a solution for our apathy. The days of the long waggon haul are gone forever in old Ontario and the "county system" of roads are not needed to market town save exter's as formerly. The most expeditious trunk routes to market towns have become defined by use and these are the roads which should be improved for the benefit of the farmer and his family.

After giving the matter some con-

the farmer and his family.
After giving the matter some consideration these are briefly our views: The Provincial government should contribute one-half and extend the privilege to the townships. Let it be paid in instalments on to become a burner share. The payen and the payen are to the condensated of the roadway should not be the measurable with regard to cost, but unreasonable with regard to cost, but unreasonable with regard to cost, but such as to insure neatness and durability and done in a businessike way with a complete absence of red tape. The work in some counties would remind one more of fuss and feathers than real business methods.

The idea of the presents helders

than real business methods.

The idea of the property holders living beside the roads paying 10 per cent. of the cost is an innovation and under some conditions is all right. We do not think, however, that all parties should pay alike without regard to the value of their holdings or the enhancing of the highway upud have ing effect the highway would have upon the value of their property. This difficulty could no doubt be overcome by the appointment of two or three practical men to decide upon the relative amount each owner should pay all things being considered. A farm all things being considered. A farm without buildings and devoted to pas-turage would not be appreciated in value to the same extent as one with modern improvements where a general system of farming operations is carried out.—A. A. Powers, Durham

A Friend of Scrub Sires

Editor Farm and Dairy,-I notice that you advise farmers to always use pure bred bulls upon their grade use pure bree outs upon their grace over. I do not agree with that advice. I have been in the dairy business for over 20 years, following on with the same stock that my father left. We had succeeded in breeding COLD STORAGE AND A MARKET

Hutter and Cheese Makers desirous of the same stock that my father the country have for years made and the country have for years made out the best builts were mostly low down heavy bodied animals which made cows with good udders, that did good service at the pail. Some years ago I decided to get a pure bred built and I sent for one to a breeder in Quebec that had young built advertised for sale. He was the progeny of noted built and a cow with a long pedigree. In due time the progeny of a noted built and a cow with a long pedigree. In due time the progeny of a noted built and a cow with a long pedigree. In due time the progeny of a noted built and a cow with a long pedigree. In due time the progeny of a noted built and a cow with a long pedigree. In due time the progeny of a noted built and a cow with a long pedigree. In due time the progeny of the

animal with a long pedigree tracing back to noted ancestors. We naturally felt proud of the animal. We bred him to our cows and had a good crop of heifer calves.

The results have been disappointing. The calves have grown up like their father. Tall, alim, animals with small middles that have not given the small middles that have not given the results at the pail at their moth-ers did. We have gene back to our old way of breeding in getting the right kind of an animal whether he has a pedigree or not.—R. Ritchie, Frontenac Co., Ont.

Live Stock in Canada

Canada is declared by the Scottish Commissioners that visited the country last fall, to be pro-eminently suited for the breeding of good draught horses. Conditions are also favorable for ses. Conditions are also favorable for the production of good mutton and wool, though the sheep industry has been falling back, partly owing to the almost incredible way in which the "pestiferous dog" is allowed to flour-ish. There is ample room, too, tor improvement in the common flocks; though the Untario pure-bred s ists are looked to—arter Great Britain—by all North America for the supply of pure-bred rams. In contrast to the reduction of sheep, pigs have enor-mously increased, their quality mously increased, their quality throughout Canada is high, and hog

throughout Canada is high, and hog culture is profitable.

For poultry keeping the Commis-sioners say, Canada possesses unique opportunities. The idea that warm housing is necessary for winter egg production is contradicted by expertence. In the North-west turkeys seem to thrive so well that it might be profitable to specialize in them.

Items of Interest

Have some supplementary feed ready when the pastures begin to get bare. Corn silage, green alfalfa peas and cats or green corn will tide you over short pastures.

Shade trees in a pasture field are a good comfort to the cows. A clump of codars that have the branches comting down to the ground will brush the flies off. Very few flies will be found on the cattle in such a shade.

Mr. R. E. Mortimer, who has been district representative of the Ontario Department of Agriculture at Collingwood, has resigned to return to practical farming at his old home near Honeywood, Dufferin County. His position is to be filled by Mr. I. F. Metcalf, Jul.S.A., who was formerly Mr. Mortimer's assistant.

Use something to destroy the flist upon the cows. It is not enough to daub some very vile mixture on the animals. It merely prevents the flist from lighting on them. They attack some other animal that has not been some other animal that has not been treated. A spray of some kind applied when the flies are upon the cow will kill the flies by closing up the spiracles on the side of their bodies, through which they breathe. Consequently they die by suffocation.

they die by suffocation.

The Board of Directors of the National Dairy Show Association met is Chicago recently. There were present Mr. Colin C. Lillie, president, Prof. H. E. VanNorman, vice-president; and Directors J. A. Walker, W. B. Barney and D. H. Jenkiss The resignation of Director E. Suédenorf as secretary of the Association was accepted, and Prof. VanNorman was elected to the position of secretary and manager. It was definitely decided to hold the 1909 exhibition in Milwaukee, the dates being Octobe 15th to 24th inclusive. Headquarten will be opened at once in that city, and the campaign for this year event will begin in earnest about the 15th of July.

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Vol. XX

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By the use can be moved they get a la and insects th These insects for the poults destructive to reasons which the farmer's fi on the farm. in our country poultry keeper flock. This is couraged.

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FOR WEEK ENDING JULY 8, 1909.

No. 27.

POULTRY KEEPING ON A ONE HUNDRED ACRE FARM

L. R. Martin, Lincoln Co., Ont.

A_xFair Idea of the Management of a Farmer's Flock. Personal Experience Obtained Under Circumstances Similar to Average Farm Conditions.

JEARLY every farm has as a side line, a flock of poultry. The special advantages which are afforded in connection with general farming, make the farmer's flock, under reasonable care, a source of large income for the amount that is invested. Greater profits can be realized from poultry in this way, than when managed on a large scale independently, as the cost of the production of poultry is very much reduced by the use of skimmilk and other good poultry foods, which occur as by-products of the farm. The grains grown on the farm for all classes of stock are convenient for the poultry. The straw and the litter required for scratching material are also present while the manure can be used to good advantage.

COLONY HOUSE SYSTEM.

By the use of the colony-house system, the birds can be moved to the corn or stubble fields where they get a large amount of waste grain, worms and insects that otherwise would not be found. These insects constitute a large amount of food for the poultry and if not destroyed would be destructive to field crops. These are a few of the reasons which go to show the important part that the farmer's flock plays in producing an income on the farm. The value of the poultry industry in our country does not depend upon the large poultry keeper, but rather upon the farmer's couraged. This is where the industry should be encouraged.

Having been given the management of the oultry branch of the farm at home, 10 pure bred Barred Plymouth Rock pullets and one male were purchased as a start. With experience, the number in the flock was increased from year to year, until it reached 150. This makes a profitable number for the average farm. The quality of the flock is maintained as nearly as possible by purchasing each year desirable male birds and also by weeding out any which are undesirable as those too fat, lazy and sickly. Trap nesting is not followed as the practice requires too close attention for a farmer. Although trap-nests are indispensible where accurate egg records are desired, a very correct idea of the laying ability of each hen can be obtained by ordinary observa-

OLD BUILDING UTILIZED.

The building accommodation consists of two old bouses, each 16x10 feet, made of single boards with battens over the cracks. They have windows in the south side and a door at each end. The bouses, although quite cold in winter, are dry and free from draughts. One third of the floor is made of boards, raised one foot high, on which to stand the water buckets and feed hoppers. The remaining two-thirds is ground floor over which is placed six or eight inches of cut wheat straw as a scratching material. This is frequent-

ly replaced by fresh straw. Nest boxes are fastened along the north side, three feet above the floor. They are cleaned every second day by scraping the droppings in a basket or pail with a hoe and then a small amount of road dust thrown over the boards to act as an absorbant. The nesting material also is frequently replaced by a new supply. With these sanitary measures, little or no trouble is found with lice or diseases. If a few lice do happen to appear, a little coal oil is poured over the roosting frames and cracks of the dropping boards, thus keeping the vermin in check.

FRESH AIR IN HOUSES.

The houses are supplied with plenty of fresh air. In the summer, the houses are kept cool by

One Issue Worth Several Dollars

Through the kindness of a friend I have been receiving Farm and Dairy for the past year, and after reading the paper for a year I heartily assert there is no gift my friend could have made me that I would have taken more pleasure out of than Farm and Dairy. I have often read articles in one issue that were worth the whole year's subscription price many times over to any farmer.—H. J. Carter, Prince Edward Co., Ont.

opening both doors, thus giving a free circulation of air, while in the winter only one opening is allowed, thus avoiding draughter but supplying fresh air. During the winter, each house contained 30 hens, but during the summer, more rosesting accommodation is furnished and 75 hens are put in each house. In the fall when the cold weather commences, thus confining the hens to indoor life, the extra number is moved into other quarters in the barn until spring.

A yard five rods square is situated at the south side of these buildings, which are placed side by side. The ground is kept clean and sanitary by frequent cultivation. Plum trees are placed to supply shade, but while they are yet small, shade is furnished by a large board cover placed about two feet above the ground on stakes. In the hot summer days the hens are found crowded under this cover, preferring it to any other place. A row of sun flowers is planted around the outside of the fence, furnishing shade as well as ornament. This yard furnishes a good run for the flock at times when the outside crops necessitate the confinement of the poultry. The idea that to obtain eggs, the hens must have free range, is a wrong or . With a little more care and food, they will ay as many eggs when confined in a reasonable sized yard as when running

The method of feeding is very much the same the year around, the only difference being that skimmed milk which is fed during the summer is replaced by lean neat during the winter. As skim milk when fed in the winter, has a loosening effect on the birds, a more concentrated food gives better results. Lean meat cannot well be used in warm weather as it moulds very quickly and is then unfit for use. The supply of lean meat in winter is obtained by purchasing horses which have outlived their usefulness and dressing them in a manner similar to a beef. This flesh is kept in a cool place and cooked as required. When commencing to feed the meat, care is taken to introduce it gradually. When accustomed to it, the hens are fed each day all that they will eat without leaving any. This amounts to about one ounce to a hen per day.

Wheat is the only grain fed in an unground condition. In the winter this is buried in the litter to induce the hens to take exercise while in the summer it is tarown over the ground in the yard. Hoppers containing a dry mash of equal parts by measure of bran, shorts and cornmeal are kept before them at all times. Water, crushed oyster shell and green food are also kept before them. A fresh supply of water is given each morning. The green food in the winter consists of mangels. These are broken in halves and stuck on long spikes which are in the wall at a convenient height for the hens. The green food in the early part of the summer consists of finely cut clover and later on rape. Of course if they have free range they are able to obtain their own green feed.

HATCHING THE CHICKS.

The hatching is commenced in the first part of April, and carried on for three hatching periods or about ten weeks. After that time, the broody hens are at once put in coops and prevented from setting. The hatching is done both with hens and with an incubator. The chickens are raised altogether with hens. Out door brooders were tried but they proved unsatisfactory. At the time that the incubator is started, any available broody hens are also given eggs. The eggs to be used for hatching are kept at a temperature ranging from 40 to 60 degrees to prevent chilling or the commencement of hatching. Only those of uniform size and shape are used. To obtain good fertile eggs, the hens are mated two or three weeks before the eggs are required to be kept for hatching purposes, one male bird being allowed for every 15 females.

BROODING WITH HENS.

Any hens which become broody during the period that the incubator is in operatiou are allowed to remain so until the chicks hach out when these hens are used for mothers. Some presuations are exercised in persuading the broody hens to adopt the new brood. When dark, on the first evening that the chicks are put under each broody hen. If in the morning the hens have adopted these chickens, 15 or 20 may be added. Very few hens that have been broody for a few days will refuse to care for

the chicks given to them. In the afternoon of the same day, they are moved into the outdoor coops. The chicks are then given their first food consisting of bread crumbs, moistened with skim milk. After a few days this diet is gradually replaced by cracked wheat. When they have become accustomed to the wheat, it is kept before them at all times in hoppers. Milk and water are also kept supplied. For convenience and protection the chicks are kept near the farm buildings for the first two or three weeks, after which they are moved out to the corn field on a high and well drained location. They are most easily moved after dark. The coops or pens are made so that weasels, cats, skunks or any other enemies can be kept out during the night. These corn field conditions are almost ideal for the cheap production of healthy, vigorous chickens. They have plenty of shade and sunsnine and in running about over the cultivated soil, they get a large amount of worms and insects as well as

FATTENING THE BIRDS.

The male birds are disposed of as soon as they have reached a marketable size. Those sold early as broilers are taken from the field and killed, while those that are kept to the roasting size, are crate-fattened. They are put in slatted crates, four or five in a crate 30 inches square, and fed on a mixture of equal parts by measure of cornmeal, finely ground oats and shorts to about the consistency of pan-cake batter, with sour skim milk. Care is taken that they are never over-fed, especially at the commencement. After three weeks of this treatment they are in good condition and as well as being heavier, will bring a few cents a pound more.

Little as yet has been done with caponizing but good success has been met with as far as tried. Twenty late birds were caponized one fall and allowed to run in an open shed during the winter, receiving only small quantities of food. They were crate fattened for the Easier market and sold for 25 cents a pound. Their average weight was seven and one half pounds each, the largest one weighing ten and one half pounds. Thus, chickens that would not have sold for more than 15 cents each in the fall were, by being caponized, sold for nearly \$2.00 each at Easter. The pullets are left in the corn fields until about the last of October when they are put in their winter quarters.

MARKETING THE PRODUCT.

Our produce is for the greater part sold in a retail way as the quantities have not been large enough for wholesale shipments. A few small shipments were sent to Montreal to compare with the home retail market and proved very satisfactory, realizing about the same in each case. The hens, which are kept until two years old, are more difficult to dispose of, but are sold during the early part of the summer, a fair price then being obtained for them. The eggs are all sold retail at a local market. As strictly fresh, the prices in winter range from 25 to 40 cents a dozen

The profits realized are quite satisfactory. The market prices obtained for the males have, in most cases, been equal to the cost of the production of both males and females. Our best egg record from December until June left \$1.00 a hen clear, above the cost of feed, which was exceptionally low owing to the large amount of lean meat that was obtained for food at a very low cost.

It is clearly indicated that the farmer's flock, if given a fair chance, plays no small part in pro ducing a profitable income on the farm. That many farm flocks produce little or no income, is not the fault of the business but rather of its management. With the poultry business, like any other business, good management brings success. Give the hen a fair chance and she will do the rest.

Minor Operations on the Farm

Dr. H. G. Reed, V.S., Halton Co., Ont.

Many of the minor operations incident to farm life such as castrating calves and pigs, docking lambs and dehorning cattle are performed by the farmer and he is perfectly justified in doing so. There are, however, certain precautions that he should never neglect. As a rule, no great skill is necessary in performing these operations. The



A Holstein Heifer That Will Qualify

"Lassic Artis Johanna" has milked 75 29 lbs. in 5 mos. 13 days as a "coyear-old, several times milking up to 55% lbs. a day 5 mos. after calving. Her dam up to 55% lbs. a day 5 mos. after calving. Her dam 10.55 mos. after calving. Her dam 10.55 mos. after calving. Her dam 10.55 mos. after calving. Her day in the control of 20 lbs. butter, in 7 days, and the corresponding ones in the "Hillcrest" herd owned by Mr. G. A. Brethen, Peterboro Co., Oat. Mr. Brethen is one of the competitors in the Dairy Farms Competition.

one great requisite is cleanliness. In the matter of the castration of calves the operation is sometimes neglected till the anim two or three months old, and the result invariably is that there is a "staggy" appearance about the head which is very objectionable from the butcher's standpoint and which materially reduces the value of a bullock in our best markets. Calves should always be unsexed during the first two or three weeks of their lives. They will stand the operations better than when older and there will be no danger of that undesirable masculine expression when they arise at adult life. Young pigs should be operated on while nursing the dam, when, if the operation is properly performed, they will receive no back-set whatever, while if allowed to go till a month or two they often experience a serious check in their growth.

THE CAUSE OF TROUBLE.

In operating great care should be taken to see that the hands of the operator and the instru-



Raising Calves in a Cheese Section

and the milking capacity of the grade disherd owned by Mr. J. K. Morre, Peterboro, the man of the milking capacity of the grade of the milking since a period of the con-traction of the milking since a year ago is successfully raising the four thrifty calves were with her when she was photographed re-by an editorial representative of Farm and a Mr. Moore has as fine a herd of thostein grade grows as one could wish for. This herd should grows as one could wish for. This herd should Mr. Mcore a strong competitor in the s' Competition, for which he has entered

ment which he uses are thoroughly cleansed. Castration in itself is a simple matter if properly performed. In cases where unfavorable complications follow it is usually due to the fact that the necessary precautions as to cleanliness have been neglected. It has happened repeatedly that a farmer with a local reputation as an operator who

could truthfully boast that he had never lost a case as a result of castration has been mortified to find that after operating on a litter of pigs for a neighbor, that they did not do well; they be came stiff and sore; the parts turned blue; the went off their food and probably several of them died. The man who operated is much surprised. He cannot explain the situation. He thinks, probably that the moon was not in the right stage or some other natural phenomena were to blame. If a person was to tell him that his hands or knife had been dirty at the time he would probably be offended and yet the chances would be as 20 to one that was the direct and only cause of the trouble. The operator should always wash his hands clean (see that there is not a rim of black dirt under each finger nail) then apply a weak solution of carbolic acid or other disinfectant. The knife should be treated in the same manner in order to insure the absence of any form of germ life. A very simple and effectual way of preparing an instrument for operating is to dip it in boiling water for a few minutes, when you may be perfectly sure that it is free from any germ After the operation the young creatures should be kept, as far as possible, in clean surroundings. If allowed in filthy stables or pens, germs are very liable to get entrance to the wounds and set up more or less trouble.

PREVENTING UNTOWARD RESULTS.

Absolute cleanliness during and after the operation is the greatest safeguard against untoward complications. If this precaution were adopted very little trouble would result from this simple and necessary operation. If some farmers had the chance of seeing some important operations in some of our hospitals it would be an object lesson to them to notice the most extreme care taken to insure absolute cleanliness. Even in veterinary practice, where such extreme precautions are not practicable, the greatest possible care is taken. A careful veterinary surgeon will not operate on a patient in a barn yard if he can possibly avoid it. He likes to have his patient out in some clean pasture field remote from a farm yard. There is hardly a more favorable condition for the propagation of germ life to be found than the ordinary barnyard and yet many of the minor operations are performed in such surroundings. Some of the worst cases of tetanus (lock jaw), which occur in farm stock, has resulted from what was very simple wounds expesed to barn yard conditions, wounds that in themselves probably would never have been noticed had they not been exposed to the action of germ life by unsanitary surroundings.

Feeding Hay to Horses

A majority or horse owners are inclined to waste hay in feeding horses-that is, they feed more than is necessary for the maintenance of the horse, and more than he can economically take care of. The Kansas Experiment Station offers the following good advice relating to hay feeding :

Either heavy or light horses that are doing regular, steady work should not, if one wishes to feed economically, have more than one pound of hay per hundred pounds of live weight. That is, a 1000 pound horse should receive 10 pounds of hay a day, and a 1500 pound horse 15 pounds a day. A 1500 pound horse that is doing steady work should have about four pounds of hay with his morning feed, the same amount at noon, and about double the amount at night. Many horses will eat 30 to 40 pounds of hay a day if they have free access to it. If a horse is allowed to eat such quantities, half of it is wasted, and if he is eating that amount of hay, it is worse than wasted for it does the horse an injury.

From two to two and one-half pounds of digestible protein is all that an ordinary horse can utilize in a day and in 100 pounds of alfalfa there are

11 pounds fa if too l order and in pregna tion of it. unhealthy

In Farn by an arti tle", by 1 His descri by this we His plan but how as three or fo is in fairly plied to a By the time der the ro would be re dinning say errun with grain crops to pasture. have our w ask him wh stock to pas bank accour to market on our farn it would be ourselves to If we were we get feed

Pasturing County. I vigorous plan Editor, if y than a three ing, where s at the same you would c ers like myse very small b ton Co., Ont.

Weeds that

T. G. Rayn Many red c the seed crop weeds that a purities in th now may mal the seed. It clover field hi not have rema June and ther enough, the 1 it to level it, s and any weed dock, Canada

be put out of

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11 pounds of digestible protein. This fare of alfaifa if too heavily fed is likely to cause kidney disorder and may even be responsible for abortion in pregnant mares that are fed too liberal a ration of it. If it does not cause abortion, weak, unhealthy foals will be the result.

Wants an Easier Method

In Farm and Dairy, June 24th, I was struck by an article headed "Thet Pest! the Sow Thistle", by Mr. Hy. Glendinning, of Ontario Co. His description of the overrunning of the farms by this weed will apply to this section exactly. His plan of eradication looks well upon paper, but how are we to apply it? A short rotation of three or four years may apply to a farm that is in fairly clean condition, but how can it be applied to a farm that is overrun with sow thistles. By the time half of the farm has been brought under the rotation, that which was cleaned first would be reseeded and as bad as ever. Mr. Glendinning says, "On farms that are practically overrun with sow thistle so as to smother out all grain crops it is a good plan to turn these fields to pasture." That would mean to many of us to have our whole farms in grass. I would like to ask him where the ordinary farmer would get stock to pasture his whole farm? Few of us have bank accounts that will enable us to go to Toronto market and buy steers in the spring to put on our farms to fatten during the summer, and it would be slow work for us to raise stock enough ourselves to eat all of the thistles in the summer. If we were to go into stock raising where would we get feed to carry our stock over the winter?

Pasturing may kill sow thistles in Ontario County. I have my doubts about it killing the vigorous plants that we grow in Wellington. Mr. Editor, if you could give us some easier plan than a three or four years rotation and pasturing, where so much expense would come in, and at the same time be sure death to the thistles, you would confer a great boon to many farmers like myself that have plenty of thistles but a very small bank account .- "Cynacus," Welling-

ton Co., Ont.

Weeds that Should be Watched in Seed Producing Meadows

T. G. Raynor, B.S.A., Seed Branch, Ottawa

Many red clover meadows are making shape for the seed crop. Now is the time to eliminate the weeds that are likely to become weed seed impurities in the small seed. A little time spent now may make a big difference in the price of the seed. It will be time well spent, too. If the clover field has been pastured, the stock should not have remained on it longer than the 20th of June and then if it had not been pastured close enough, the mower should have been run over it to level it, so that an even start could be made, and any weeds left to produce seed like curled dock, Canada thistle, wild mustard, etc., could be put out of business.

A weed seed very commonly found in red clover is rib grass or buckhorn, which most farmers know very well now, especially those who are producers of seed. This weed could be very largely eliminated by going over the meadows a few days after they have been mown, 111 narrow strips armed with a spud or hoe to cut them out just below the crown of the plant. The plants are easily seen at that time and unless the field is very bad, it need not take long to go over five or 10 acres. Rib grass, buckhorn, buckthorn, narrow leaved plantain, wild timothy, are names by which this plant is known. It has long narrow light green leaves, which grow from the root. It shoots up a number of flowering stems and has a head resembling, when in blossom, that of timothy, hence the name wild timothy. The seeds are small brown and oval on the one side, quite flat on the other, and has a dint which gives

it the appearance of a canoe. They have a mucilaginous coat which, when wet, will stick. This nature of the seed is made use of to effect a separation from red clover and alfalfa seeds with which it is all too commonly found.

SEPARATING BUCKHORN FROM CLOVER SEED Any farmer without much trouble could easily



A Relic of Barbarism

A Relic of Barbarian

The two photos reproduced on this page were snapped for the page were snapped for the page were snapped for the page with the page wit

separate this seed from the amount he usually sows in one or two different ways. (1) By putting a couple of thicknesses of cheese cloth over some fanning mill screens and using a sprinkling can to wet it. Clover seed containing the buckhorn may be sprinkled over the wet cheese cloth. At first all the seed will stick a little, but by allowing it to dry slightly all the clover seed will shake off and the buckhorn will stick tighter. These may then be scraped off and the operation repeated. Two or three, or even more screens could be used at the same time. (2) The other way is to dampen all the seed and then mix with it dry sawdust or road dust. The dry sawdust will stick to the buckhorn and enlarge it. The separation can then be made by suitable screens which would let the clover seed through, but will retain the buckhorn. Of course these are slow processes and



Toll Gate, Fallowfield, Ont.

are oni, recommended for a farmer to clean the seed he would use on his own place. The weed itself is easily disposed of in a short rotation.

Curled Dock is another weed which there is little or no excuse for a farmer having in his seed. These weeds grow up tall and one plant will produce an enormous amount of seed. After a heavy rain at this season of the year it is easily pulled up by the roots, and if taken to

the fence, will be put out of danger in giving further trouble. Catchfly, or sticky cockle, is another plant to look after just now, both in red clover, and more particularly in alsike, where it usually revels. It is easily known by the sticky excresence when in blossom. It is a winter annual and pulling it or cutting it off near the ground when in blossom disposes of it completely.

A WEED TO BE RECKONED WITH.

Bladder Campion, bell weed, or rattle box, as it is sometimes called, is a plant to be reckoned with, and while as yet it is not blacklisted by the Seed Control Act, it will be very shortly, and is one of the very worst weeds existing to eradicate. These plants should be spudded well in the ground, and one or two handfuls of salt applied to kill the root where plants are not too plentiful. Canada thistles may be spudded, false flax and wild mustard pulled.

Later on, fox tail, treefoil and ragweed, may be greatly lessened, if a scythe is used on the killed out spots and any thin places where the weeds are coming on very thick. With a little care it will be seen that farmers can produce reasonably clean seed by paying attention to a few of such details as I have described even on comparatively dirty land.

In future, more than in the past, will dirty seed be discriminated against. It is up to the farmers to protect themselves by clean farming, sowing clean seed, and following up such practice by more or less weeding in the field.

Some Pointers on Haying

H. Johnson, Middlesex Co., Ont.

Cut clover hay when it is in full bloom. Dew or rain should be allowed to dry off before cutting and the tedder put to work about half an hour after it is cut. If tedded twice the same day, the hay will be all the better. It should be raked into windrows and if the conditions are all favorable hauled to the barn the same day. If not ready to go the barn, and the weather keeps dry, it may be allowed to be in the windrows over night. The next morning run the tedder lengthways of the rows then load with the loader and take to the barn.

Fine hay can be made by coiling it the same day it is cut, and allowing it stand for a couple of days. Then if the weather is favorable haul to the barn. Coiling, however, entails a lot of extra labor and does not give a good chance to use the hay loader.

Timothy should be cut when the anthers are turning a purple color. Many call this stage the second bloom, but it is a misnomer. The purple color is caused by the anthers dying.

Corn Cultivation .- After the corn is sown, and before the corn plants appear, we make use of the light harrow. We follow this with shallow cultivation so that the corn roots may not be broken and in order that the moisture may be better conserved than it would be were deep cultivation practised. Corn should be cultivated as often as every seven or ten days throughout the growing season. Some of the prize corn at Guelph last winter was grown inder such cultivation as have also some of the heaviest crops I have ever seen.-John C. Shaw, Oxford Co., Ont.

Spraying with Paris green mixed with lime is the safest, surest and most effective means of destroying the bucs. Bordeaux mixture should be used in blight stricken districts as a safeguard against early and late blight. All vines after the crop is harvested should be burned so as to get rid of any fungus spores. Scientists tell us that the spores will remain dormant for a number of years and be ready to attack the first appearance of a new crop.

The Duty on Hog Products

During the debate in the House of Commons upon the swine industry, the Hon. Sydney Fisher was question-ed as to increasing the duty upon pork products coming into Canada. The debate was a lively one. The discussion is important as it shows the

much debated question:

Mr. Blain—"My hon. friend had before him a deputation from the Swine Breeders' Association of Canada convolving ada complaining of the condition the hog trade and pointing out that the hog trade and pointing out that while there was a large importation of hogs into Canada a very small amount of hog products were exported to the United States. The tariff rate on hogs coming into Canada is two cents a pound, while the United States tariff rate is five cents a pound. Last year we imported over \$1,000,000 worth more than we ex-\$1,000,000 worth more than we exported and it seems to me that this would be a legitimate question for my hon. friend to turn his attention to. When the Swine Breeders' Association, representing the farmers of this country, point out that the con-dition of the hog industry is such that dition of the bog industry is such that it requires special protection this government should devote some attention to it. It may be that it would require a sum to be placed in the estimates to make a complete examination into the condition of the trade in Canada. My hon, friend has an opportunity may tad by sympthics. an opportunity now to do something for the farmers by complying with the request of the Swine Breeders' Asso-



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ciation and it seems to me that it would be an opportune time to place a sum in the estimates, or see that some portion of this money is used to a thorough investigation of the hog industry so that the government will know whether it is in the best interests of Canada that a higher protection should be placed upon hog products. Let the Minister of Agriculture tall. ture tell us now whether he intends ture tell us now whether no into do anything for the farmers in connection with the hog raising inconnection with the hog raising in-dustry, and whether he will expend some of this vote in finding out wheth-er the Swine Breeders' Association were right when they told the govern-ment that the Canadian market is being flooded with pork from the Uning noded with pork from the United States. These gentlemen did not ask that the duty on pork should be five cents a yound as it is in the United States, our own tariff being two cents, but they made the humble request that the Canadian duty shall be four cent. e four cents. Hon. Mr. Fisher-We contend we

HON. MR. FISHER—We contend we do not require to raise the duties to raise the price; the price has gone up because of other causes. The hon. member for Peel said that a deputation came and asked me to raise the duties. They also asked me to any avacuatistics at Depmark to send representatives to Denmark to inquire into the swine industry. I propose to do that, I think it will do the swine industry more good than the other and will not raise antagon-ism between that industry and oth-

believe that the best profits in I believe that the best profits in every industry are made by cheapening the cost of production rather than by raising the cost of the article. When you raise the cost of the article, you hurt the consumer of the article, though you may possibly for the moment increase the profits of the promet increase the when you have the cost of ducer, but when you lower the cost production, you give the producer his profits without raising the cost to the consumer, and therefore the consumer is not hurt. In this particular industry of swine breeding and pork production on consumer and pork dustry of same breaths are the production our greatest rivals are the Danes and the Irish. They have beaten us in the English market in the

en us in the english market in the sale of pork products.

Now, instead of raising the prices of pork products to the people of Can-ada, who have to buy them. I want to find out how the Danes and Irish sucand out now the France and train sceed in beating our people in the Brit-ish market, and for that purpose I have asked and have obtained permishave asked and have obtained permis-sion from my colleagues to send a special commission of farmers inter-ested in the swine breeding industry of Canada to Ireland and Denmark to investigate the methods of production in those countries. I believe I am doing what is better-better for the breeders themselves, and certainly better for the whole consuming tainly better for the whole consuming public of Canada; and I believe it is better than my hon. friend's sole pan-acea for all the commercial troubles of the country—higher and higher protection.

Ms. Armstrong.—I think my hon. friend from Peel (Mr. Blain) was within his right when he sought to show the Minister of Agriculture the show the Minister of Agriculture the necessity of making some improvement in the hog industry, in view of the manner in which it is languishing at present. I feel it is my duty to call upon the Minister of Agriculture to take immediate steps to improve the sake immediate steps to improve the position of that industry. If he will examine the agricultural press he will examine the agricultural press he will demand for the manner in which that demand for the manner in which that industry is languishing. In turning up the trade and navigation returns I find that last year, 11,770,000 lbs. of lard, valued at \$1,000,000, came into this country. Of bacon, ham, shoulders and sides, 7,304,000 lbs. valshoulders and sides, 7,504,500 lbs. valued at \$851,000, came in from the United States. Of pork, barreled in brine, 9,204,000 lbs. valued at \$713,000 came in. In view of the fact that in the neighborhood of 30,000,000 lbs. of

swine products are annually coming into this country, surely my hon. friend was within his rights in calling the attention of the Minister of Agriculture to the fact that the swine industry was not increasing but that it dustry was not increasing but that it was an industry that was in need of a radical change. The Minister of Agriculture tells us that he is going to send a few farmers over to Denmark to see if they can bring back some new ideas. If these men return within the next few months it will take years for the swine industry to get back to anythe swife industry to get back to any-thing like the position it held some years ago. Let him look at the pork manufactories in Canada and see the small amount of pork that is being exported and he cannot help but come to the conclusion that his department is responsible for the position of the swine industry to-day.

When I call attention to the fact

When I call attention to the fact that we are making these large importations of the products of the farm, I cannot help but feel that sementing should be done, and done immediately, whereby our farm products could be increased and whereby the swine industry, the butter industry and the live stock industry could be developed along more extensive lines. I feel that if the minister would take into consideration could be developed along more ex-tensive lines. I feel that if the min-ister would take into consideration not only the question of developing the swine, the butter and the live stock industries of this country, but the question of securing the best pos-sible markets for the norducts of the the question of securing the best pos-sible markets for the products of the farm, he would be doing a greater measure of justice to the farmers of this country than he is doing at pres-ont.

Our Legal Adviser

ADOPTED CHILD NOT AN HEIR.-If a ADDITED CHILD ANY AN EARLY Depreson adopts a child having papers made out, and takes it as their own, is that child an heir to the property, or would it share equally with that person's own children?—An Old Subscriber, Middlesex

The person should make a will, if he desires the adopted child to get any benefit from his estate. If the person dies without a will, the adopted child will not receive any share.

TRESPASSING-My neighbor who TRESPASSING—My neighbor who purchased his farm two years ago, giving a chased his farm two years ago, giving a chased his farm two years ago, giving a get his lines run by a Provincial surveyor and asked me to pay half the expense, regressed, as I wished to cut timber up to regressed, as I wished to cut timber up to change was made I would be the neighbor of the province of the p "blind" line to be right, and that if any change was made a would be the loser. The survey made me a treepasser. I had cut of fallent tubber on my meighbor's law of fallent tubber on the most law of fallent tubber of fallent tubber of fallent fallen

You are liable to pay damages

You are liable to pay damages to the owner of the property, and he has a right to take proceedings against you, without any formal demand. For that reason you are interested in approaching him and endeavouring to settle the matter.

You are liable to pay damages for timber cut, even if you did not remove it, but the amount of damages should be, of course, much less as to the timber that you left. There is no definite sum to be paid in such cases, the timber that you lett. Inere is no definite sum to be paid in such cases, as thus the question is, what is the real damage which the owner has sustained, and to determine this, a this, Judge would have to take into ac-count the quality and size of the tim-ber, its distance from the market,

CITY MILK SUPPLY DEPARTMENT

The Milk We Drink

Some of the city dailies have sought to make capital out of the rilk ques-tion that is now so strongly before the Glowing articles public. Glowing articles describing about the worst conditions that could exist in dairies have been published and held out to the city people as being typical of the conditions under which the conditions under the conditions of oeing typical or the conditions under which most dairies operate. The re-sult is likely to scare people especially mothers with young children out of buying milk. A Toronto doctor re-cently went so far as to imply that pure milk can not be secured for less than 13 cc. at not be secured for less pure milk can not be secured for less than 13 or 14 cents a quart and that any milk sold for less must be unfit for consumption. The following are extracts from an article from the pen of Dr. J. N. E. Brown, of the Tor-onto General Hospital, published re-cent of the tenter of the tenter of the "How but the milk stars" and the milk our citizens are drinking milk from tuberculosis cows. How many such

tuberculosis cows. How many such cows there are we do not know.

cows there are we do not know.
"Our milk comes from cows, too
many of which are housed in dirty,
ill-ventilated stables. In many instances, cows are milked by men and
women whose hands are not properly
cleaned; the milk is received into
pails improperly cleaned, and transferred to dirty cans. It stands on platforms at the roadside for an hour platforms at the roadsidy for an hour or so usually and is brought to the station (in the summer time) in the heat. Under such circumstances, the micro-organisms which have entered the milk from the dirty hands, from the cow's udders, etc., have increased by billions. The milk is unloaded at the railway station and taken to the corner grocer or other re-tail store and finally delivered to the Such milk is absolutely unfit for human consumption.

NOT ALL SO BAD

"Not all of the Toronto milk supply is as bad as this. A small quantity is taken from healthy well cleaned cows, housed in clean stables and milked by milkers into absolutely clean pails. The milk is then cooled and brought is than cooled and brought is that the cooled and brought is the milk is then cooled and brought is the milk is then cooled and brought is the milk is then cooled and brought is the milk is clean pails. The milk is then cooled and brought in absolutely clean cans or bottles to the city and delivered clean and wholesome to the consumer. clean and wholesome to the consumer. For such milk the consumer pays from 13 to 15 cents a quart, which is a very reasonable price, considering the amount of care which has to be taken in keeping it clean and cool. Even at 15 cents a quart it is no dearer than beef at the same price per pound. As has been said before, i.s

pound. As has been said belore, ... food value is equal to beef. It is more easily digested and just as nutritious.

"If, in 25 years, all the milk supply of Toronto comes up to the proper standard, we shall indeed be fortun-ate; meantime what can be done? The people of Toronto should insist, first people of Toronto should insist, first that the milk they consume must be taken from healthy cows, free from tuberculosis, from inflammation or ab-cess of the udder, and from any other form of disease."

While the conditions cited by Dr Brown may be true in some isolated cases, they are far from applicable to the general run of milk producers as the Doctor infers. These charges, of what is practically criminality, that have been brought forward, should not go unchallenged. The day has long since passed, if indeed it ever existed, when milk producers generally were guilty of such neglect and failure to produce wholesome mill and railure to produce wholesome hus as has been described. We doubt if much over five per cent, of the milk sent to Toronto is as bad as des-cribed by the doctor. What, therefore, is the use of scaring for no good purpose people who are not acquaint-ed with the real conditions?

FAR 20000

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rays at th In the st cents worth it in alcoho ces of wate this over n grain where Great care fowls or no grain.—H.G

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some poor cows; or they may be reduced by good economical feeders to 35 cents per 100, and 10 cents per FARM MANAGEMENT

Combatting Turnip Lice

As turnips have been very lousey for the past two years in our section, I write to find if there is any remedy for keeping them in check?—G. W. P., Peel Co., Ont.

Turnip lice are difficult to deal with in an effective manner. Such well known farmers as Mr. Henry Glendinning, of Ontario County, recommend late sowing and adequate cultivation continued late on in the season to conserve these omment I we swaing any acceptance of the control of the season to conserve the soil moisture and thus keep the turnips well in advance of the lice, and to keep up the vigor of the plants. Several remedies have been suggested by Entomologists, but they have not always proven practical. Where large areas are to be dealt with, probably the best remedy suggested is to destroy the small patches of lice when they first appear. These insects multiply very rapidly and if caught in the early stage, they can be held in check quite effectively. Dusting with lime is recommended, but it is only practical on some patches.

is recommended, but it is only practical on some patches of no some patches of no some patches of the patches o

To Destroy Sparrows

Can you give me any practicable remedy for getting rid of sparrows. These miser-able pests swarr all day from early morn-ing until dark around our chicken coops, and eat more than the same number of chickens. They are infested with insects, which take to the hens and chickens, do-ing much harm.—J. McG., Northumberland Co., Ont.

The shot gun is perhaps the best remedy in the winter time, when you can get large numbers of the sparrows to congregate in one place. Large numbers of them can be killed by placing some screenings or small grain

placing some acreenings or small grain in a leg, marrow strip on sloping ground where you should be a should be a

Cost vs. Beauty

The proud owner says "this is a high grade Canadian, and this is a pure bred Holstein." The admiring visitor to the cow stable remarks. "What beautiful cows!" The thoughtful student asks "What yield of milk and fat do they give?" The practism man equires "What does their man experience to a select committee to obtain existing associations. The high grade has give the a poor weight of milk, and fat shough the medium of cow the string associations. The high grade has give the a poor weight of milk, and provided the pure break and the string as the same to the string the pure break and the string of the derivative of the string or horteleultural paper funding milk at the lowest cost. No one knows definitely us what the common grades mue possibly be producing milk at the lowest cost. No one knows definitely us what the common grades mue possibly be producing milk at the lowest cost. No one knows definitely us what the funding or horteleultural paper of the funding or hortel

30 cents per 100, and 10 cents per 11b.

This all goes to prove that the carerul dairyman, and particularly the average and possibly careless farmer,
should take immediate steps to find
out what profit each cow brings in.
Enormous improvement, and largely increased profits have been made by
the men who are sufficiently alive to
their own interests to weigh and sample each cow's milk regularly and
keep a record of feed consumed.
Blank forms for milk and feed records are supplied free on application
of the Dairy Commissioner, Ottawa, A
med of 18 low is an average of 1020
b. milk, 20 test, 30 lb. fat. One
grade in the herd gave 1530 lb. milk
testing 4.0 per cent. fat.—C.F.W.

Results of Root Crop Experiments

At the recent anula convention of the American Seed Trade Association, held at Niagara Falls, Ont., Prof. C. A. Zavitz, of the Ontario Agricultural College, Guelph, Ont., delivered a paper, "Root Crops," which was interesting and well received. It contained the results of careful tests conducted by the Agricultural College at Guelph, showing comparisons between Guelph, showing compared with imported the production of seeds of mangels, Swetzensen and Carrots, home grown seems and proven dependent of the contained th termine the influence of different selections of seeds upon the resulting crop. Ninety-four distinct experiments were conducted with large, medium-sized and small-sized seeds. In eighty-five per cent of the separate tests the larger seeds produced more heavily than the smaller. In a series of experiment in polarity are of experiment in polarity are the of experiments in planting root seeds at different depths in the soil, through a series of years, on land of lower and higher levels, average clay loam and nigner levels, average clay loam soil, five years with mangels and su-gar-beets, four years with Swede turn-ips and carrots, average results show-ed best results at half an inch below the surface.

the surface.

Five years' experiments in thin-ning roots at different distances apart in the rows showed that as the dis-tance increased the average size of tance increased the average size of the root increased in crop, with a de-crease in the percentage of dry mat-ter and also provided of roots per acre. In five very speciments in awing sugar beets in your set differ-ent distances apart, by was at differ-ent apart of the provided of a sugar-ciase to greatly special and a sugar-acre. In thinning sugar beets at dif-ferent stages of growth in each of five years the greatest average yield per acre was obtained when thinning the plants when about two inches in height.

to do with the catching of trains. In the first place it seems to me that the measure is intended to benefit a class of people who already have too much consideration at the hands of much consideration at the hands of our Legislatures. It is proposed to put the cleck back 80 minutes so that the City men will get up an hour and twenty minutes earlier than is his usual wont and that there will be that length of time for recreation after the control of the c

means that the railway time tables will be made to conform to the new state of affairs, and the farmers who have to ship their milk to the city on the early morning trains, and who are obliged to start milking anywhere between four and half past five in order to accomplish this, will virtually have to start their operations an hour earlier. I feel quite confident that the majority of farmers and half past the confident that the majority of farmers are not start their operations. The farmer double what this means. The farmer double when the morning, and in in large and the put back, as his working and harvest very often necessitates his working quite late in the evening. An hour seasons such as haying and harvest very often necessitates his working quite late in the evening. An hour and thirty minutes tacked onto the beginning of the day to suit city men who are too lazy to get up in the morning, is asking too much when one counders the very large proportion equited to the proposition of the population. When the resident propulation were shown that the latter part of the day, especially during the summer and fall, during the picking season. All those engaged in this business will remember that it is a very common thing to have to wait until the dew has become three divided up on the bushes and trees before one can pick. This is particularly in connection with berries, and it is not considered the proposition of the picking day.

A Committee was formed to confer with the representatives of the Canadian and Dominion Express Compandian and Dominion Express Compandian and Dominion express Compandian and Dominion the press the control to the control

A Committee was formed to confer with the representatives of the Cana-dian and Dominion Express Compan-ies to indo e them if possible to re-arrange the service so that the grow-ers would have a longer time in which to pick, but their great excuse was that they must be into Montreal in time for the early morning market, and in order to do this, it was ne-cessary to start the trains when they did. If the Montreal market is held about eight, o'clock under the present did. If the Montreal market is nead about eig. to 'clock under the present arrangement, I suppose the same time will hold good under the new regime, and this will necessitate arranging the schedule of trains according to the

clock.

The matter in my opinion is to serious to be allowed to pass without some protest, and I therefore take the liberty of bringing the matter before you, and if the city men want to save the daylight, let the manufacturers open their factories at half past frour, they will then accomplish the same thing without adopting the childish method of putting the clock back.—A. E. Kimmins, Wentworth Co., Ont.

The effort made in a recent number of "Farm and Dairy" to bring about an investigation of freight rates with a view to the prevention of the evils of "dumping" by the big transportation companies is most commendable. It should have the

hearty and active support of every Canadian farmer.—Hugh McFadden, Sherbrooke Co.

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Circulation Manager, THE RURAL PUBLISHING COMPANY, Limited, Peterboro, Ont.

pays to use home-grown plants. He told our representative that he could

make more money by leaving the plants in the old rows and selling the

plants in the old rows and selling the fruit than by taking same and using them for the new plantation. "Within two or three days after planting," continued Mr. Dodds, "the grounds is gone over with rake. Then it is cultivated every week at least throughout the season until frost comes. The hoe is used when neces-

"I do not believe in pinching off the blossoms the first season as is usually recommended. There is no benefit that I can see and it bleeds the

fit that I can see and it bleeds the plants. The fruit that may be tak-en off of these will practically pay for the plants. I allow the first runners to root and nip off the weaker ones. I allow only two runners, one on eith-er side of the parent plant, to root the first season. These will set a

the first season. These wsufficient number of plants.

coordenesses rival. Mr. Dodds does not think it HORTICULTURE

Reesessassassassassassas The Fruit Crop Outlook

Fruit crop conditions have not changed since our report of last week. The following information from local correspondents of Farm and Dairy have been received since that report was published, N.S.—The prospects are good. Apples and plums have set well. Caterpillars are abundant and little is being done to control them.

little is being done to control them. I have sprayed for two or three years and have few insects, except green aphis, which are particuarly bad on Japan plums and hard to kill.—Geo.

Japan plums and hard to all.

H. Hardy.

Ontario Co., Ont.—The set of apples has been very favorable. Codling moth is showing, but spraying in the state of the s

ling moth is showing, but spraying is practised extensively.—Jas. A. Rider. Welland Co., Ont.—There will be few apples here this year. Not much spraying is done.—Geo. A. Rice. Elgin Co., Ont.—Bloom was heavy on Greenings, but light on Baldwins. The fruit has set well and we look for a fair crop with Baldwins shy.—J. Exception.

Essex Co., Ont .- Set of apples has been very good. Some winter varie-ties are not full and Baldwins, short. June drop has been about normal.

June drop nas been about normal.—
E. E. Adams.
Grey Co., Ont.—There will be three times as many apples as last year.
Ten times as much spraying is being done than previously. Codling moth is prevalent in orchards not sprayed.

J. G. M.

Growing Strawberries

CHOWING STRAWDETTIES

The illustration on this page shows a young strawberry patch with Dutch see to income between the rows. The photograph was taken recently by a representative of Farm and Dairy on the fruit and vegetable farm of Mr. J. P. Dodds, Peterboro Co. In conversation with Mr. Dodds, some practical pointers on strawberry culture were gleaned. gleaned.

The varieties that I grow principally are August Luther for early, Enormous for medium and Brandywine for late," said Mr. Dodds. "All these are sure croppers. Before placting, I give the plants a mud bath for about 24 hours. In a tul I mix heavy soil and water to a depth about five inches and thick enough so that it niches and thick enough so that it niches and thick enough so that will just go through the fingers. The plants are put in this and when taken out the roots are not allowed to become exposed to the air. The plants are set every 18 inches in rows that are 36 inches apart. I use a trouch of planting."

Before giving a definite order for Batis, Mr. Dodds makes sure that no substitution will be practised and arranges that the plants will be shipped on the dates requested by him, so on the The varieties that I grow prin-

on the dates requested by him, so that he will have different quantities coming at different times in order that the plants may be fresh on ar-

AGENTS WANTED

Paint Without Oil The Striped Cucumber Beetle

The striped cucumber beetle is to be eckoned with in the months of June reckoned with in the months of June and July by the growers of cucumbers, squashes, pumpkins and melons. In some seasons the beetles have been known to destroy large patches of these members of the melon family in a few days. State Zoologist Surface, of Demographic State 200 Demographi Remarkable Discovery That Cuts Down the Cost of Paint Seventy-Five Per Cent. A prominent manufacturer has discovered a process of making a new kind of order a process of making a new kind of the call is the control of the call is the call is the call of the call is the call of Pennsylvannia, gives the following information, in condensed form, in regard to this pest:

"The earliest measure is to prevent

"The earliest measure is to prevent damage by covering young plants with an early overing young plants with a net or cloth with a finer mesh than the common measurito netting. They will not crowd through measuring by means of a Planet Jr., Iron Age ting if lime and turpentine be placed on the ground within it. The adults on the killed by an arsented poison, of the summer should be cut down like oil paint, and course access one-ament.

a much.

The form of the form o

like Paris green, which can be applied either as a powder or in liquid plied either as a powder or in inquid form. If, as a powder, it should be dusted on the plants after having been mixed with 30 times its bulk of airslaked lime or flour.

"In applying poisons as a liquid, use not over one-third of a pound of Paris green or two pounds of arsenate of lead in 50 gallons of water.

"The beetle can be kept away by dusting the plants with air-slaked lime mixed with hellebore. This, however, is only a repellant driving off the insects, but not killing them. To destroy them a poison must

destroy them a poison must be used.

"The larvae can be killed by using tobacco dust in the soil around the plants; or, stick a few holes, four or five inches deep, in each hill and insert a teaspoonful of calcium carbide, filling the hole with earth. Land plastice, with turpontine is also a preventbe used er with turpentine is also a preventive, and it may be added that a pinch of nitrate of soda in each hill will act both as an insecticide and a fertil-

Cutworms on Vegetables

"I believe in growing crops between the strawberry rows during the sea-ton. I take two or three crops of small truck off the same ground, such

as onions, radishes, lettuce, herbs and so on. This is done during the second year of growth as well as the first. In addition to the small quantity of fruit secured during the first season, Arthur Gibson, Central Experimental
Farm, Ottawa.
Cutworms are dull looking caterpillars very much the color of the
ground in which they hide during

There is No Waste Ground Where Inter-Cropping is Practised

Onions, radishes, lettuce and other crops are grown between the strawberry rows is shown in the flustration. The photograph was taken by a representative of part of the flustration. The photograph was taken by a representative of part and Dairy, who secured also the information that is reported in an article on this results.

If fruit the patch for two years. At the day. In Ontario, there are a the end of the first season and as great many different kinds of cutsoons as freesing comes, I put three worms, but those which are responsible of well rotted manure on either sible for most of the damage are the er sides of the plants, but not on top red-backed cutworm and the plants, but not on top for them. In the following spring, sided cutworm. The variegated cutting is worm and one or two of the other cultivated throughout that season. I well known kinds, occasionally occasionally occasion ally a fertilizer right among the learning and when inches of well rotted manure on either sides of the plants, but not on top of them. In the following spring, this is worked in and the ground is cultivated throughout that season. I apply a fertilizer right among the plants made up of nitrate of sods, 100 lbs.; sulphate of potash, 95 lbs.; acid phosphate, 200 lbs. This is the quantity for an acre."—A.B.C.

> The remedy for cutworms which has been found to give the best results, is the poisoned bran remedy. This is made by mistening the bran slightly with sweetened water and then adding gradually the Paris green. One half a pound of Paris green is sufficient to poison 50 pounds of bran. When required for garden use all that is necessary is to sprinkle a little of the poisoned bran by hand around such plants as are liable to be attacked. If used on a large scale, the mixture may be distributed by means of a Planet Jr., Iron Age or other wheel seeder.
>
> All weeds still standing at the end The remedy for cutworms which has

June

ers have to deal with. Fortunately their injury is mostly over by the end

and burned as early as possible in autumn. This will destroy many of the eggs from which the cutworms hatch and also do away with suit-able places for the deposition of oth-er eggs laid by moths before winter.

For Peach Tree Borers

There is no more serious pest of the peach tree in some localities than the peach tree borer. It is the larva of a clear-wing moth, which flies by day, darting quickly from place to place.

The egg is laid during July and August on the bark at the base of the tree, and after some days the larva

The egg is laid during July and Auguste on the bark at the base of the tree, and after some days the larva or grub hat-hes and commences to find at the surface of the bark, finding its way through and being its way through and being the way the bark, offen and across beneath the bark, they are concealed and can not easily be reached with insecticides. They should then be killed by cutting them out, always cutting lengthwise rather than crosswise of the bark, or by piercing them with a bear wire, when they will die. This however, when they will die. This however, when the will die. This however, we will be bark to be part of the bark or by piercing them with a been done to the tree.

By far the best plan is to prevent this injury and the necessity of cutting them out by covering the base of the trunk of the tree with some liquid material that will prevent the moth from laying its eggs; or, destroy the larvas before they enter the bark. The part time of year for this is the latter part in the property of the part of

whitewash brush.

Painting near the ground and below with whitelead and raw linseed
oil will serve the same, so, and
be safe, as has been properly by
H. A. Surface, State Zoolov, and
be safe, as has been properly by
H. A. Surface, State Zoolov, and
Pennsylvania, in his experiments. Mr.
J. L. Shroy, of Lancaster Co., Penn.,
writes to Professor Surface that he
has succeeded perfectly in preventing
the borer by rubbing the base of the
tree with equal parts flowers of sulphur and salt, in June and again in
August.

Thin the fruit on the trees before it gets too large.

If you want to make the most from your apples this year, get your neigh-bors interested and organize a co-operative fruit association. well known kinds, occasionally oc-cur in enormous numbers and when such happens, their feeding habits change considerably and they feed by day as well as by night. On the whole, cutworms are the most trou-blesome insects which market garden

Strawberry plants in both the new and old plantations should be sprayed twice during the season with arenate of lead in the portion of 3 lbs. to 50 gals. of water. Before using add 3 lbs. of slaked lime—J. F. Dodds. Petarkor. C. Ont. Dodds, Peterboro Co., Ont.



1000000 Gapes, Bert S

July 8

Gapes in ever, atta our to ei known to often very check, son cumbing to open the have a c becomes r

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as causes. ing daily o size of a g The odor r rindpipe a the camplo er remedy strip it to w it into the and withdra cintment is one ounce oz. lard, from air. A bing a little head and th hatched. At little is all will at all lice whether or not. A much u

A much u horse-hair ar a loop. Inse and twist a Many of the caught in the Ground when eased chicks us for chick disinfected, as

Keeping Po In keeping

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*************** POULTRY YARD

Gapes, Cause and Treatment

Bert Smith, Lambton Co., Ont. Bert Smith, Lumbton Co., Ont. Gapes is a disease that seldom, if ever, attacks adult birds. It is constructed to the construction of the construct ease advances.

CAUSE

The gaping of the chick is caused by a small, red, V-shaped, threadworm which are attached to the root of the windippe. The origin of these worms has caused wide-spread discussion, both in Europe and America.

Many causes have been offered but wan have have well accepted Mc. the windpipe and so caused the gape-worms. Others believe it to be caused by eating angle worms. The chicks coughing up the worms spread the trouble, for when these worms are eat-on by other chicks they will become affected in the same way.

TREATMENT

There are numerous cures as well as causes. A favorite one is the giv-ing daily of camphor in grains the ing daily of camphor in grains the size of a grain of wheat, or a pea. The odor reaches the worms in the windpipe and destroys them, while the camphor lies in the crop. Anoth-ter remedy is to take a feather and strip it to within an inch of the endmoisten it with turpentine and insert it into the windpipe, twist it round and withdraw quickly. The following ointment is sometimes recommended: of mercuric ointment oz. sulphur, 1/2 oz crude petroleum, oz. lard, mix thoroughly and keep 2 os. lard, mix thoroughly and keep from air. Apply with the finger, rub-bing a little into the down of the head and throat of the chick when hatched. Avoid too liberal use as a little is all that is necessary. This will at all events destroy the head lice whether the disease is prevented

or not.

A much used remedy is to take a horse-hair and twist it, thus forming a loop. Insert this in the windpipe and twist around, then withdraw Many of the worms will have been caught in the loops and detached. Ground when once occupied by dissead chicks is claimed to be dayner. Ground when once occupied by dis eased chicks is claimed to be danger ous for chicks for some years if not disinfected, as the worms when cough-ed up will remain in the ground for

Keeping Poultry Free from Lice

Keeping Poultry Free from Lice

In keeping a poultry plant free
from lice there are two points of attack; One, the birds themselves; the
other, the houses, nest boxes, roosting
boards, etc. For the birds themselves
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ave to a weak. If the hivids are had, In keeping a poultry plant free from lice there are two points of attack; One, the birds themselves; the other, the houses, neat boxes, roosting beards, etc. For the birds themselves experience has shown that the best way to get rid of the lice is by the use of a dusting powder to be working the powder. In using any the powder is not the feathers. In using any child always be remembered that a single powder is not single powder is not single powder in the powder. When there are lice present on. When there are lice present on. When there are always under they don't grow. I only wonder they don't grow I only wonder they don't grow. I only wonder they don't grow I only wonder they don't grow. I only wonder they don't grow in the time, mail and meaning the grow of the wonder they don't grow. I only wonder they don't grow in the grow of the wonder they don't grow in the grow of the grow of the wonder they don't grow in the grow of the grow

nests of lice and vermin a liquid spray or paint is probably the most desirable form of application.

HOME MADE LICE POWDER.

The lice powder which the Maine Experiment Station uses is made at a cost of only a fer cents a pound the following way .:

the following way.:

Take 3 parts of yasotine.

part of crude carbolic acid;

part of crude carbolic acid;

lix these together and add gradually with stirring, enough plaster of the liquid and the dry plaster should. The liquid and the dry plaster should be a compared to the liquid will be uniformly distributed liquid will be uniformly distri pinkish brown powder having a fairly strong carbolic odor and a rather le

pronounced gasoline odor.

Do not use more plaster in mixing than is necessary to blot up the liquid. than is necessary to blot up the industrial This powder is to be worked into the feathers of the birds affected with vermin. The bulk of the application should be in the fluff the application should be in the fluff around the vent and on the ventral side of the body and in the fluff under the wines. Its diency, which is greater than that it may be very easily demonstrated by suppose to his own satisfaction. Take a bird that is covered with lice and apply the powder in the manner just described. After a lapse of about a minute, shake the bird, loosening its feathers with the fingers at the same time, over a clean piece of paper. Dead and dying lice will drop on the pager in great numbers. Anyone who paper in great numbers. Anyone who will try this experiment will have no further doubt of the wonderful efficiency and value of this powder.

SPRAY FOR ROOSTS For a sp or paint to be applied to roostin boards, nest boxes or walls and door of the hen houses the following preparation is used: 3 parts of kerome and 1 part crude carbolic is is stirred up when used be applied with any of the

has apray pumps or with a brush. In both of these formulae it is highly important that crude carbolic acid be used instead of the purified product. Be sure and insist to the druggist on getting crude carbolic acid. It is a dark brown, dirty looking liquid and its value depends on the fact that it contains tar oil and tar bases in addition to Be sure and insist tar bases in addition to the pure

The Necessity For and Care of Growing Chicks

J. Marcy, Simcoe Co., Ont.

It is most important that proper care be given to growing chicks. Pro care be given to growing chicks. Fro-per care climinates most troubles in 1 xising chicks. Filthy quarters brings disease and parasites. Crowding the chicks at night means colds, then roup. Trying to raise chicks without roup. Trying to raise chicks without light in the control of the control of diarrhoca. No grit or chicks to eat and they become crop-blund and die.

die.

I have people come to s

seed together, are also furnished. Green food of almost any kind is furnished the chicks. Plenty of shade is provided.

is provided. Quarters with roosts, also trooders, and coops with clucking hens are kept scrupilously clean. Fresh water is furnished half-door times a day. Chicks are examined now and then for signs of vermin. When cockerels become troublesome to pullish that are accounted that the grade of the provided that the grade of the g lets they are separated and two gra de. Those for the market are shut and fed fattening foods, and those made. for breeding and for layers are fed elong the way I have spoke of. The cockerels only waste their vitality and

cockents only waste their vitality and cockents only waste their letter their network of their netwity. The importance of their netwity. The importance of their netwity. The importance of their netwity of the mouses and poultry was brought ken houses and poultry was brought ken houses and poultry was brought to me, when I was injured six weeks ago by lumber failing of a car, laying me up so all I can do is write. Mrs. Marcy found things in right condition and has been able to look after them just as well as I could, so after them just as well as I could, so give proper care to your chicks and give proper care to yo their quarters, and if our chicks and their quarters, and if you are unable to attend them yourself, whoever does so, is not handicapped and is able to keep things going until after you can look after things yourself.

Keeping and Marketing Eggs

The eggs whether intended for market or for hatching, should be kept in clean case either the wire spring pattern or pasteboard fillers, and it is preferable in a moderately cold room that is clean and well ventilated, and where the temperature does not go be-low 50 or above 60 degrees. This room should not contain any vegroom should not contain any veg-etables, oil or any other matter hav-ing strong odor, as such will taint the eggs. The eggs should be packed in the cases small end downward.
Where they are intended for hatching it will be a wise plan to turn them every day or two. For this purpose a revolving egg cabinet will prove a labor saving essential. These cabinets are a practical invention devised for are a practical invention devised for the puropse of caring for eggs for hatching, providing means for turn-ing the eggs with little expenditure of time and no loss through break-age or careless handling. These cab-inets can be purchased from any dealer in poultry supplies in our large cities, and they generally have them in several sizes

In earlier times, eggs, if sold at all, In earlier times, eggs, if sold at all, were marketed near the place where they were produced, and many arestill sold in local markets, but with improved methods of transportation the market has been extended, and large quantities are now being shipped to distant points. Special egg cases are required for carrying eggs long distance. tances.

Eigzs which are to be shipped, Biggs which are to be shipped, there is packed in any material hav-ing the shipped of the shipped of the discrete about the shipped of the All new shipped of the shipped of the staw, cardboard, but on or other pack-ing material having metals have the shipped of the shipped ing material having a disagreeable odor will injure the flavor and keep-ing qualities of the eggs packed in it.

Keeping eggs near a lot of apples, or other goods having a pronounced odor during transportation, has been known to injure the flavor of the eggs and reduce their market value. Microorganisms may enter the minute pores of the eggs and start formentation. organisms may enter the minute pores of the eggs and start fermentation, which ruins the eggs for market purposes. Eggs which have been kept in a warm place, or where the germ has been a few hours under a broody hen, will also become rotten, and the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of a few such eggs in a case constitution of the presence of th presence of a rew such eggs in a case will result in a loss in price on the whole shipment. The normal nucila-ginous coating of the surface of the egg protects it and somewhat hinders entrance of the organisms which the entrance of the organisms which start fermentation. This coating is removed or injured by washing the eggs and the keeping quality of the eggs thereby diminished. For this reason it is not a good plan to wash eggs which are to be shipped some distance to market or which good the contract of the co to market or which are not intended for immediate use.—F.C.E.

Five Months' Egg Record

We have received the following com-unication from Mr. Geo. R. Tylee, Rosemere: I wintered 90 old hens and 100 pul-

I wintered 00 old hens and 100 pullets, most of them being hatched from the middle of May to the end of June. Of course they did not begin to lay the course they did not begin to lay the course they did not begin to lay the course of the co and curtains to let down in front of roosts on cold nights.

I had no trouble with sick birds and no frozen combs. I am adding 60 feet to my house this summer, and will winter at least 400 hens. As to feed, they had wheat corn, buck-wheat and control to the control of the cont wheat and oats, but not much corn wheat and oats, but not much corn. They were fed morning and night in the litter and always dry bran in hopper, shell and grit; green bone was fed avery second day with mangels.—
F.C.E.

Points

Variety in the ration is the one thing needed to make the hens lay and keep them at it. The ration must be generous and diversified.

A good dry poultry house, when we have showers, is an important re-quirement. Many diseases oten orig-inate through dampness produced by a leaky roof.

If we can buy only a few hens and a male to start with, be sure that we select the best of the breed we like best, and provide them with a good comfortable house and yard.

The homeopathic remedy for roup, with its characteristic cough, ious mucus about the beak, with difficulty in breathing, is to give aconite One drop of aconite in a gill of water One drop of aconite in a gill of water given to the sick bird to drink.

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FARM AND DAIRY PETERBORO, ONT.

POULTRY AND FARM BOYS

The hen has long been a recognized money maker. There are few farms that do not number at least some poultry among their live stock. With many, however, the poultry is allowed to shift for itself. Poultry is more often than not denied the same measure of care that is given to horses and to other farm animals. In recent years, however, the hen has come more largely into her own, thanks to the work of experiment stations and the enterprise of poultry fanciers and others who have proved beyond doubt that poultry can be made a most paying part of the farm.

The average hundred acre farm can profitably support more pourtry than it does. The article on page three of this issue, giving the experience of Mr. L. R. Martin, of Lincoln County, Ont., outlines in a fair measure the possibilities of poultry on the average farm. It is an example of making a side line of the farm profitable and at the same time giving

a boy a training which will prove most valuable to him in after life. Mr. Martin does not quote in figures as to profits, but states simply that they were quite satisfactory. An idea of the profits that may be obtained may be had from referring to the experiience of Mr. Wilbur Bennett, of Peterboro County, Ont. Mr. Bennett gave his experience before the Poultry Institute at Guelph last winter. The poultry plant on the Bennet farm occupies about five acres of ground. From it last year a profit of \$450 was made, the profit being more than was made from the other 95 acres of the farm.

The experiences of Mr. Martin and Mr. Bennett stand out as illustrious examples of what poultry can do for the farm boy. Fathers may well turn the poultry department of their farms over to their boys and encourage them to take the interest in it that the industry merits.

TAKE NO CHANCES WITH BULLS

Farm and Dairy has frequently noted accidents due to attacks from bulls. Such accidents seem to be on the increase. Each summer scarcely a month passes but what several people come to grief by means of infuriated bulls. It is a pity that this needless sacrifice of life is not curtailed. Only last week Mr. Chas. McKay, of Cambray, Victoria County, was accidentally killed by an angry bull while visiting his pasture field to look after his driving horse.

We cannot too soon learn that it is not safe to take chances with bulls. Invariably it is the bull thought to be perfectly docile and is allowed his liberty that in the end turns out to be the destroyer of human life. Bulls over a year should be carefully watched. It is not safe to have them running in the pasture. If a bull is allowed liberty other than a box stall, separate paddock should be provided, and handling should be by means of a stout staff securely attached to a ring in the animal's nose.

BREEDING FROM SCRUB SIRE

The unfortunate results of Mr. Ritchie's breeding as given elsewhere in this issue is just what might have been expected. We purchased by pedigree without ideration of the individual

The purity of breeding in his bull with a long line of ancestors behind him made him prepotent. It gave him the power to impress his character upon hisprogeny. This prepotency on the part of the bull should make us all the more careful in his selection. for he is just as sure to transmit his weak points as that of the strong.

No worse animal could be introduced as the head of a herd, than a bull with some very marked weakness, and with a long line of ancestors behind him, in which these points have shown themselves in different members of the family. One should aim to secure a bull of as good conformation as possible and in which the heavy milking qualities and high test of butter fat have shown themselves in the family and particularly in this bull's mother.

The danger from using grade bulls is, that one may get a good individual that has only two or three crosses of pure blood in his veins, and he descended from very inferior stock on the dam's side. Frequently calves from such a bull will show reverts to the scrub stock of the ancestors.

SOW RAPE FOR FORAGE

The rape plant is rapidly gaining in favor. Large areas are being devoted to this crop annually. It should receive the attention of all stockmen. Rape may be sown at any time from early spring until August. The Dwarf Essex is the best variety to grow. A satisfactory way of growing this crop is to make use of a clover sod plowed in the interval between having and harvest. When worked down to a fine seed bed and sown in drills 30 inches apart at the rate of two or three pounds to the acre, it will furnish an abundance of forage for fall feeding. It may be sown broadcast if desired, but it will make more satisfactory returns when sown in drills as it may then be cul-

While it is out of the question to pasture dairy cows on rape, it provides valuable forage for young stock, sheep and pigs. It is highly prized by cattle feeders for furnishing a succulent food during the fall months and preparing the cattle for winter feeding. Rape is well worth a trial. It is produced at small expense for seed and culture and yields an immense amount of nutritious forage which will be highly appreciated by the stock

BINDER TWINE

Much annoyance is often experienced during the busy time of harvest from using a poor quality of binder twine. It is false economy to purchase poor twine because it is offered at a small price. All binders do not act alike with the same twine. machine that has been in use for a number of years and that has become worn, will usually do better work with a coarser twine than with a fine one.

The difference in the actual cost in harvesting a given number of acres with the different lengths of twine is usually only a trifle. The best quality of manilla hemp is spun finely and makes a twine of 650 feet to the pound. Poorer qualities of hemp and sisal have to be spun coarsely. These latter vary in length running 500, 550 and 600 feet to the pound, according to the quality of material used.

One of the principal defects in twine is the unevenness with which it is spun. An annoyance often met with is that when the ball is nearly all used the twine will tangle and form a knot causing it to break. This can be overcome, to some extent, by throwing the balance of the ball upon the ground and allowing the twine to trail out, not a very tidy operation, it is true, but it often enables one to use a hundred or more feet of twine that otherwise would go to waste.

Dispatches from New Brunswick and Nova Scotia tell of great destruc-

For fire to be getting in its deadly work so early in the season is quite uncommon. It goes to demonstrate more strongly than ever the great need of edequate fire protection. The problem of stopping forest fires is not an easy one, if not impossible. Increased numbers of forest fire rangers and the whole service put under better organization would lessen this wanton waste.

The telephone is coming to be recognized more and more as a farm necessity. Last week a rural telephone was the means of affecting the capture of a tramp in the vicinity of Gananoque. He had attempted an outrage. After the farmer's daughter had reported at home that she had been attacked, a posse of 25 farmers was quickly organized by telephone and a thorough search instituted, which resulted in the arrest of the tramp. The telephone offers protection that should be a part of every farm home.

Decline of the Hog Trade

Peterboro Review (Conservative)

The tremendous slump in our bacon trade and also in our butter trade. comes upon us like the proverbial bolt from the blue. The outlook for the farmer is serious. Farm and Dairy is doing what the Department of Agriculture at Ottawa should have done long ago, viz.: taking note of the slump and taking measures for investigating the cause. Farm and Dairy turned back the Laurier Government from its active condemnation of Free Rural Mail Delivery although not far enough to make Peterboro county one of the 97 routes now estabtablished. It has caught the attention of the same government in the case of the serious slump in the bacon trade. It has done well. But are we to understand that this journal is so more efficient than Mr. Fisher's boasted department of Agriculture If so, why not substitute one for the other and at a vast reduction in expense too. Loss of trade and loss of value in farms are burning the candle at both ends for the farmer with a vengeance.

Co-operation for Pure Milk

(Toronto Star) The Windsor Record quotes with approval The Star's recommendation that the Dominion and Provincial Governments should do more to encourage the production of pure milk, but says that we place the chief if not the entire responsibility on the producer, and that others are to blame. We are emphasizing one base of the subject because we thought it was neglected, but we agree with the Record that there is a resj-ensibility along the whole line, from the producer down to and including the consumer

The Record says that a farmer who ships supplies regularly to Windsor complains that his cans are returned to him in a state of disgusting foulness. The cans are emptied and returned without washing. They are semetimes twenty-four hours in trantion to forests being worked by fire. sit, the condition growing worse all

fairly 1 ize the water would tailer, er an i The c should it is de in a to fifty de oders, c should returned milk re the line

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The acid c.c. glass me flask without test flask she to allow the acid goes in, test samples ly by hand or possible to the qua sometimes a mains at the overcome by dly

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the time, and the farmer is very unfairly required to cleanse and deodor. ize them. A simple rinsing with cold water immediately after emptying would involve little labor for the retailer, while it would save the farmer an immense amount of trouble.

The customer also has his duty. He should see that the milk, as soon as it is delivered at his door, is placed in a temperature of not more than fity degrees, and is protected from dere, dust and flies. The consumer should also see that the bottles are teturned scrupulously clean. Pure milk requires co-operation all along

Creamery Department
Butter Makers are invited to send contributions to this department, to ask questions on
matter relating to butter making and to sugmatter state Creamery Department.

Operating the Babcock Test

In order to insure reliable results in milk testing one must secure a proper representative sample of the milk to be tested, to get a true sample from the composite test bottle into the flask, and give careful attention to all the remaining details of the work. Composite samples give reli-able results, and save the trouble of able results, and save the trouble of daily testing. After a cow is milked and the milk weighed, pour it from one bucket into another and then back before taking the sample. Immediately afterwards take some with cup or measure, and put some into he composite bottle. The same the composite bottle. The same quantity should be added each time, and at the end of each week the botand at the end or each week the bot-tle will contain a representative sam-ple of the milk for that period. The contents of the composite bot-tles should be thoroughly fixed. If

tles should be thoroughly fixed. If the cream has set or is hard to mix, the bottles should be placed in warm water at a temperature of 120 deg. for a few minutes. The cream is then more easily dissolved and mixed with the milk. The sample is measured with 17.6 c.c. capacity. then more easily dissolved and mixed with the milk. The sample is meas-ured with 17.6 c.c. capacity pipette, and put in the test flask. To pre-vent spilling, the flask should be held at an angle to allow the air to es-

SULPHURIC ACID

SULPHUNG ACID.

For milk-testing, sulphuric acid of 1.827 specific gravity is used. The acid bottle should be kept corked when not in use, as it absorbs moisture from the ari if exposed, and becomes weak. The acid and milk ought to be about about 1.00 fee, in temperature before mixing. It is maglect of temperature. It is neglect of temperature and strength of acid that causes a white curdy matter, or a black charred substance, to appear in the fat column. This temperature may be secured by placing the test bottles in a water-bath of the desired heat after measuring. bath of the desired heat after measur-ing. The acid may be cooled or heated in the same manner, but be-fore measuring. Altering the strength or quantity of the acid is not recom-mended. All bottles containing sul-phuric acid should have glass ground pluries acid should have glass ground belief. "Poison." and kept out of isolated "Poison." and kept out of the reach of children when not in the reach of children when not in

The acid is measured with a 17.5 The acid is measured with a 17.5 rec. glass measure, and poured down the inside of the neck of the test flask without fast without the field of the neck of the test flask should be held at an angle to allow the should be held at an angle to allow the should be held at an angle into since the second of the sec

shaking with a reverse motion before finishing

WHIRLING THE BOTTLES

WHIRLING THE BOTTLES.

The speed at which the machine has to be turned depends on the gearing, and the diameter of the testers. If the bottle-wheel of the machine is 12 inches in diameter, that wheel should be made to turn 980 times a minute. If 18 inches in diameter, 800 revolutions a minute; and if 34 inches in diameter, 633 revolutions a minute, and if the bottle-wheel is 18 inches in diameter and geared to revolve 100 diameter and geared to revolve 100 diameter and geared to revolve 100 diameter. and if the bottle-wheel is 18 inches in diameter and geared to revolve 10 times for one turn of the handle, the operator should turn the handle 80 times into the standard of the standard speed. If the bottle-wheel be geared by friction care should be taken that no slipping takes place. For factory or crimen of the standard of the standard of the others.

After turning the tester for six min-After turning the tester for six min-utes, hot water, 180 deg., is added up to the neck of the flasks. Rain or soft water should be used for this purpose. After adding the water, the machine is turned for three minutes, then more water is added to bring the liquid up in the neck of the flask to between the 7 and 10 mark. Anothers minute's turning, and the operation is complete. If only a few samples against the between the flash of the samples and the between the samples are to be the samples and the samples are to be the samples and the samples are to be the samples and the samples are to be the samples are to be the samples and the samples are to be the samples are to be the samples and the samples are to be the samples and the samples are to be the samples are th tion is complete. If only a few samples are to be tested, the water may be added with the milk pipette; but where a large number have to be done, a can with a rubber tube and a pinch-cork is handiest.

READING THE TESTS

A pair of fine-pointed dividers is of A pair of fine-pointed dividers is of great assistance in taking the measurement of the fat column. The fat is measured in the water to the top of the column. Having taken that span with dividers, one point is placed at 0, and the other will show the pereputage of fat on the scale on the scale of the bottle. Each large division represents 1 per cent. and division represents 1 per cent., an each small space two-tenths, or 0. each small space two-tenths, or 0.2 of 1 per cent. In very cold weather the fat column often partly solidifies before a reading can take place. This may be prevented by keeping up the temperature of the samples. Hot wa-ter may be put in the pan of the machine, and the test flasks placed in ware water after whittine is finished. water after whirling is finish until the readings are recorded. This precaution is not necessary for the greater part of the year.

Disposing of Milk at a Profit

Disposing of Milk at a Profit

How to dispose of milk at the
greatest profit is one of the questions

Prof. E. H. Farrington, of Wisconsin

Arrive of the control of the profit is one of the question as the
saun of Hoard's Dairyman. He says:

In answering such a question as the
above, one must know, first, at what
saun of the year the herd produces
the brooducts, such as whey and
skim milk is econd, the value of
the brooducts, such as whey and
skim milk in the selling milk in
the three directions one which too
many farmers are apt to ignore, but
it is a very important one which too
many farmers are apt to ignore, but
it is a very important one sa farmer
or should consider his sell in the same
way as he does his back account
He cannot expect to be constantly

way as ne does his bank account. He cannot expect to be constantly drawing money from the bank without continuing to make deposits. The same is true of his farm, he cannot prosper by robbing the soil and

separators traded them in last year

LAVAL CREAM SEPARATORS

and there are doubtless many more owners of such machines and there are doubtless many more owners of such machines who will be glad to know that while such old machine no actual value the DE LAVAL Company continues properties and the properties of the most practical illustration at the continues afford for the most practical illustration and put of the difference between good and poor separators and put of the sale of others like them in the same neighborhood. So the properties of the sale of others like them in the same old machines althy in girred through the re-sale of these ofd machines and the properties of the same properties of the same properties. Then there are many thousands of Della Latin.

Then there are many thousands of DE LAVAL users who should know that they may exchange their out-of-date machines of from 10 to 25 years ago for the mile improved, closer skimming, easier running and larger capacity machines of

Write in a description of your old machine—name, size and serial number—or see your DE LAVAL agent.

THE DE LAVAL SEPARATOR CO.

173-177 William St. MONTREAL

14 and 16 Princess Street, Winnipeg.

Taking the foregoing information, together with the price offered for milk at the reason the cheese factory and condensing factor during the different months of the year can easily calculate which would be or can easily calculate which would be of the mind to the cancel to the cancel to the cancel to the cancel cance

amount received a cwt. of min gives the following figures: One hundred the following figures: One hundred pounds of 4.0 per cent. milk seeked pounds of 4.0 per cent. milk seeked pounds butter, which multiplied by 27 gives \$1.2.1. The 85 pounds of skim milk which would be returned from the common or ordained on the farm. the creamery or retained on the farm the creamery or retained on the farm if a farm separator was used for skimming the milk, may be estimated as worth 24c. adding the to \$1.21 gives \$1.44 a cwt. received from the milk sent to the creamery, and when the skim milk is fed to the farm and the cream only sold, very little fertility is removed from the sail.

soil II 100 pounds of 4.0 per cent. milk is sent to a cheese factory, this would as sent to a cheese factory, this would as the control of th between the two prices.

If the milk was sent to a condensary and an average price of \$1.50 a

cwt. was received for the milk, the value of the fertility removed from the farm would more than cover the difference in the price received per cwt. of milk.

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Many of our subscribers have been on our mailing list for many years. We want them to continue as our subscribers many years to come. We trust they will renew their subscriptions promptly, when they expire, thus saving us the trouble of notifying them personally

Look at the address on the wrapper of your paper this week. If it bears a small blue X it means that your subscription has expired, and that your renewal is in order. If your subscription has already expired, and you have not yet renewed, we trust you will lose no time in doing so, as all our subscriptions are payable strictly in advance. Look for the blue X on your label this week. If you see it don't fail to let us see your renewal at an early date.

Circulation Department

FARM AND DAIRY PETERBORO - CANADA

Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest sub-jects for discussion. Address your letters to The Cheese Maker's Department.

What Constitutes a First-Class Cheese?

The question was asked Mr. G. G. Publow, Chief Dairy Instructor for Eastern Ontario, by Mr. Campbell, of the Central Smith Cheese Factory, at the Cheese Makers' Convention held in the Cheese Makers' Convention held in Peterboro in April. "What consti-tutes a first-class report on cheese, such as is given by the instructors?" Mr. Publow replied that a first-class report on quality should read as fol-los, Flavor clean, body firm, texture close and smooth, color uniform, fin-ish neat and stylish and of uniform size. This class of cheese is eagerly to the control of the color of the color The question was asked, "If cheese are slightly onen when young are they

are slightly open when young are they likely to become more so with age?" The reply was, yes, they were, unless cured at a uniform low temperature. When asked for a remedy for open-ness in the make of cheese, he advisness in the make of cheese, he advis-ed having a good body at time of re-moval of whey, and maturing the curd well after milling, before apply-ing the salt, and pressing for 48 hours. He also advised turning the cheese in the press in the morning.

He said openness of make was a common defect and could be largely ov-ercome by this remedy.

The Cheese Trade

From an expecter's standpoint the situation in cheese is a very unsatisfactory one at the moment, says the Trade Bulletin, and not a little mixed. English buyers are evidently wanting cheese and lots of business could be done if shippers would accept 6d. to 1s. a cwt. less money which, however, leaves no profit for which, however, leaves no profit for high property of the propert From an exporter's standpoint the

high. The cheese industry is bound to make rapid progress. Thos. Grieve, the veteran cheese maker of Ontario, has charge of the Burnt Lake fac-tory and as usual is giving a good account of himself."

The Farms are Being Judged

Judging in Farm and Dairy's prize Judging in Farm and Dairy's prize farms competition is well under way. The four farms entered in the Durham county special competition were judged last Friday. This week the judges are at work in both Eastern and Western Ontario. It is anticipated that by the latter part of next week, all the farms will have been judged for the first time. They will pudged for the first time. They will be competed the property of the last time next December.

next December.

The farms in Durham county were judged by Mr. J. H. Grisdale, of the Experimental Farm, Ottawa, and by Mr. Henry Glendinning, of Manilla, one of the editors of Farm and Dairy who were accompanied by Mr. H. B. Cowan, of Farm and Dairy, the Secretary of the Price Farms Committee. Some of the farms entered in the Durham county competition would

medal offered by the Quebec Government for the best farm in the 22 counties in the eastern townships of counties in the eastern townships of Quebec, including the Huntingdon District. Mr. Ness, while in the office of Farm and Dairy this week, stated that if next year, Farm and Dairy could arrange to allow the farms in Quebec that have won gold and silver Quebec that have wen gold and allver medals, to compete in a special com-petition against the prize farms in Eastern and Western Ontario this year, in a larger competition to de-cide the best dairy farms both in Que-bec and Ontario, there would be about 65 farms in Quebec eligible to com-pete. Many of them, he thought, would be glad to take part. Mr. Nees felt that such a competition competition in Ontario. Farm and Dairy expects to be able to adopt this suggestion and would advise the prize farmers in Quebec to be getting ready to take part in the competition prize farmers in Quebec to be getting ready to take part in the competition next year. This extra competition will not conflict in any way with the prizes that will be offered for the best farms in Ontario. Those prizes will be offered just the same. It simply means that if the farms that win the



Salesmen, Buyers and Others who are Interested in the Madoc Cheese Board

Salesmen, Buyers and Others who are Interested in the Madoc Cheese Board

Those in the illustration are: reading from right to left, front row-Mesar. Her Morton, representing Levell & Christmas:
T. H. Thompson, representing Jas. Alexander & Oo: Jerry West, Township Councillor, and salesman for Cold Spring Pr. The
Bast gentleman is Geo. Bacon, salesman for Spring Greek Pr. Middle row, from right to left.—Those, Ex-Pres. of the
Board, and salesman for Queensboro: Angus Nicols, Ex-Reev of Madoc Township, and salesman for Rose Fy; J. Nicol. Treas
Madoc Cheese Board: T. E. Burnside, Pres. Madoc Cheese Board; H. M. Biar; See. Madoc Cheese Board: A. Caskor, salesman
for Alexandra Fy; J. O. Dale, mgr. J. O. Dale & O., Bankers; Christopher Wright, Reeve, Madoc Township and salesman for
for Alexandra Fy; J. O. Dale, mgr. J. O. Dale & O., Bankers; Christopher Wright, Reeve, Madoc Township and salesman
for Alexandra Fy; J. O. Dale, mgr. Dale & O., Bankers; Christopher Wright, Reeve, Madoc Township and salesman
for Alexandra Fy; J. O. Dale, Mgr. J. O., Dale & O., Bankers; Christopher Wright, Reeve, Madoc Township and salesman for
for Daley Fy; Top row, from right to left:—The second gentleman from the end, Thos. Thompson, salesman for Madoc for
for Daley Fy; the seventh gentleman, salesman for Bell Fy; John A. McOoy, drover; Jas. English, Ex-Warden of Hastings Co.;
Mr. Laycock, salesman for Delora Fy; and Wm. Greatrix, salesman for Marble Spring Fy. respectively.

trade that production cannot over-take that of 1907, in view of the hot and dry weather in a number of sec-tions. Of course this is the period when hot and dry spells are exper-ienced; and we do not remember a time when a short make on account of drought was speculated on, that money was not lost in the cheese

The Wicklow cheese factory never The Wicklow cheese factory never commenced as sesson with a more fav-orable prospect. Last Monday, June 28th, thew made 35 cheeses; they have received from a firm in the Old Coun-try a very flattering offer for the whole season's out-put. The propriet-or has introduced thin most of the pro-tess of the property of the pro-tess of the property of the pro-tess of the pro-te

Writing from Burnt Lake, Alberta, Willar says, "Prospects "Boller and engine, U. 8. Separator, betting and shaffing, etc. all in excellent order. Fine chance for a cheese factory to fine to anomination factory at a very to fine the superior of the

hold their own with any farms in the province. On the farm of Mr. T. Baker, of Solina, some exceptionally on the farm of Mr. A. Smith, of Enfield, the farm house, buildings and orchard were of unusual merit. Both orchard were of unusual merit. Both these farms were so free from weeds that it was not an easy matter for the judges to find any, although both farms are large. Mr. Baker spuds out the weeds on his farm each year. Mr. R. R. Ness, of Howick, Que., who is to judge the farms in Eastern Cutario was anyable to seed. Peters

who is to judge the farms in Eastern Ontario was unable to reach Peter-boro in time to go out with the other judges. Mr. Ness started work Mon-day morning judging the farms in Pe-terboro Co., and is now well advan-ed in the work of judging the farms in Eastern Otherici was Eastern Ontario. Farm and Dairy

is arranging to get photographs and full descriptions of all the best farms which will be published from time to time through-out the summer and fall months.

QUEBEC FARMS. As has been previously stated, the farm owned by Mr. Ness won the gold

prizes for the desc tarms in Officiario next year are good enough to beat the farms entered from the province of Quebec, they will win special prizes offered for still larger competition. From week to week, particulars will be published in Farm and Dairy about the convections are the competition as it progresses as well as descriptions of the various farms entered. A competitor, in Dis-trict No. 2, not previously mention-ed, is John Locke, of Campbellford.

prizes for the best farms in Ontario

We appreciate Farm and Dairy very much. We do not think it is right that we should be "fined" for improving our farms and we heartily endorse the excellent articles that have appeared in its columns on the nave appeared in its columns on the taxation question. There are many good things in Farm and Dairy that we would not like to miss.—George K. White, York Co., Ont.

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

CHEESE FACTORY FOR SALE, 55 ton. up-to-date, brick factory, at buyer's price— Box T., Farm and Dairy, Peterboro, Ont.

In Plain Sight

The Sharples Dairy Tubular Cream Separator is the only simple separator made. The only piece used inside the bowl is the tiny, instantly removable, dividing wall shown in plain sight on the thumb in this reproduction from an actual photograph. Other separator makers claim their separators are simple, but they take care not to show the many inside disks and other labor and repair making parts used inside their bowls.

Because of their simplicity and superior construction, Tubulars are cleaned in one tenth the



time, skim faster, skim cleaner, turn easier and wear longer than any other make. The manufacture of Tubulars is one of Canada's leading industries. ales exceed most. if not all, others combined. Write for Catalog No. 253.



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Pasteurizer, Curd Agitator, General Cheese Factory and Dairy Supplies. 21 ST. PETER ST., MONTREAL, QUE. 'Phone Main 4619

SKIMMING STATION OUFIT FOR SALE.

SYNOPSII
oblidren. P
the mainsta,
Mrs. Burton
is the idol o
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July

A light br He went beh the hind whe up the whe if his efforts sell came in dun-colored He stood st the meaning rolled off Chir silent laughte

"Come, con to see how at see the horse With a per unfastened th horse's head v had so long m

'Oh, thank Englishman "Thanks awfolever of you thing. I wis with you. I with you. I I farm if I were Jim looked cruelly bitten "I'll tell you "I'll tell you "I'll tell you"

ing, "I haven' ork, but I su to keep the mo sure, if they ec

You are le person could le I think you a person is parti person is partice entirely new. It aged, old man, owner some day J. Wemyss Sto-ters to the agri of horses at the





F a man realize his wasted golden hours of opportunity, let him not waste other hours in useless regret, but seek to forget his folly and to keep before him the lessons of it.



Sowing Seeds in Danny

By Nellie L. McClung ALL RIGHTS RESERVED

Aligh Rushiva Research.

Alight Rushiva Russian And State Rushiva Russian Russ

A light broke over his face again. At dairy institutes—oh, I think I see He went behind the buggy and lifted you, Arthur!" (You are chaffing me," Arthur said up the wheels and craning his neek smiling. up the wheels and craning his neck around the back of the buggy to see if his efforts were successful, Jim Rus-sell came into the yard, riding his dun-colored pony Chiniquy. He stood still in astonishment. Then the meaning of its same to him and he

the meaning of it came to him and he rolled off Chiniqy's back, shaking with silent laughter.

"Come, come, Arthur," he said as soon as he could speak. "Stop trying to see how strong you are. Don't you see the horse wenter of delays."

see the horse wants a drink? see the norse wants a drink;
With a perfectly serious face Jim
unfastened the check, whereupon the
horse's head was lowered at once, and e drank in long gulps that water that ad so long mocked him with its near-

head as long meester him with its near-ness.

Oh, thank you, Mr. Russel," the Englishman cried delightfully.

Thanks awfully, it is monstrously delever of you to know how to weary-thing. I wish I could go and live vith you. I believe I could go and live with you. I believe I could be arm to farm if I were with you."

Jim looked at his eager face so cruelly bitten by mosquitoes.

"I'll tell you, Arthur," he said smil-ing, "I haven's any need for a man to cork, but I suppose I might you'll keep the work, but I suppose I might you."

I'll wouldn't book at Ching. I am sure, if they could get a nip at you."

The Englishman looked perplexed.

"You are learning as well as any

The Englishman fooked perplexed.

"You are learning as well as any lerosa could learn." Jim said kindly. It was the way she scraped the frying in think you are doing famously. No person strictularly bright at work continued, new. Don't be a bit discouraged, of any, you'll be a rich land owner some day, proprietor of the A. J. Wungstook Farm, writing letters to the agricultural papers, judge of horses at the fairs, giving lectures of horses are seen as a second base of horses are seen as a second base to be a second base to be seen as a second b

smiling.

"Indeed, I am not. I am very much in earnest. I have seen more unlikely looking young fellows than you do wonderful things in a short time, and just to help along the good work. I am young to show you a few. work, I am going to show you a few things about taking off harness that may be useful to you when you are president of the Agricultural Society of South Cypress, or some other for-

tunate municipality."

Arthur's face brightened 'Oh, thank you, Mr. Russell," he

That night Arthur wrote home letter that would have made an appropriate circular for the Immigration Department to send to prospective

CHAPTER XIV.

The Faith That Moveth Mountains

The Faith Inst Moveth Mountains.
When supper was over and Pearl had washed the heavy white dishes, Mrs. Motherwell told her, not unkindly, that she could go bed. She would sleep in the little would seep in the little would state of the work of th

there."
Mrs. Motherwell was inclined to
think well of Pearl. It was not her
soft brown eyes; or her quaint speech
that had won Mrs. Motherwell's heart.
It was the way she scraped the fryive nam.

and shadowy in the gathering gloom. and shadowy in the gathering gloom. The Motherwells did not believe in giving away anything. The Indians who went through the neighborhood each fall looking for "old clo" had long ago learned to pass by the big tone kniss. Indians do not appressions kniss.

long ago learned to pass by the big bouse. Indians do not appresent the property of the proper

"Please ma'am," she said going over to Mrs. Motherwell, "I can't sleep up there. It's full of diseases and microscopes."

"It's what?" Mrs. Motherwell almost screamed. She was in the pan-

host screamer. One was II the pau-try making pies.

"It has old air in it," Pearl said, "and it will give me the fever."

Mrs. Motherwell glared at the lit-tle girl. She forgot all about the frying pan."
"Good gracious!" she said. "It's a

"Good gracious!" she said. "It's a queer thing if hired help are going

"Good gracious!" she said. "If sa queer thing if hired help are going to dictate where they are going to sleep. Maybe you'd like a bed set up for you in the parlor!"
"Not if the windies ain't open," Pearl declared stoutly.
"Earl declared stoutly.
"Pearl declared stoutly.
"Pearl declared stoutly.
"Pearl gasped. Widus and flies."
Pearl gasped. Widus and flies."
"Francis and to that would Mrs.
Francis and to the windies of the windies all down, and I as good as promised I wouldn't. Can't we open with the windies all down, and I as good as promised I wouldn't. Can't we open with the windies all down, and I as good as promised I wouldn't. Can't we open with the we windy, ma'am?"
"Mrs. Motherwell was tired, unutared the winding and the winding and the winding and the was tired and near the shad passed away in gray dreariness; hop are barren and bloak, the future burdens by my the promagny.
"You go straight to your hed." a "And the straight of the was tried and nerhaps that is why she became

"You go straight to your bed,"
she said, with her mouth hard and her
eyes glinting like cold flint, "and
none of your nonsense, or you go

when Pearl again reached the lit-tle stifling room, she fell on her knees

When Fears again reaction are the tell estiffing room, she fell on her knees and prayed.

"Dear God," she said, "there's gurms here as thick as hair on a dog's back, and You and me know it, even if she don't. I don't know what to do, dear Lord—the windy is nelt down. Keep the gurms from gettin' lato me, dear Lord. Do you min'd lato me, dear Lord. Do you min'd lato me, dear Lord. Do you min'd lato me, dear Lord. Take care o' me, dear Lord. Poor me has eurough to do without me and ye take care o' him, didn't provide the same as a country to the house with a schess. Keep yer eye on Danny if yet whole ye eye on Danny if yet with off the windy ris to-morrow, so mebbe it's only to-might ye'll have to watch the gurms. Amen."

Pearl braided her hair into two rear braided ner nair into two little pigtails, with her little dilap-idated comb. When she brought out the contents of the bird-cage and opened it in search of her night dress, the orange rolled out, almost fright-ening her. The purse, too, rattled on

the orange rouse out, amoust regu-ening her. The purse, too, rattled on the bare floor as it fell. She picked it up, and by going close to the fly-speckled window she count-ted the ten-cent pieces, a whole dollar. Never was a little girl more

dollar. Never was a hoppy.

"It was Camilla," she whispered to herself. "Oh, I love Camilla! and I never said 'God bless Camilla,""—with a sudden pang of remorse.

She was on her knees in a moment

and added the postscript.
"I can send the orange home to ma, and she can put the skins in the chest to make the things smell nice, and I'll git that windy open

to-morrow."

Clasping her little purse in her hand, and with the orange close beside her head, she lay down to sleep. The smell of the orange made her forget the heavy air in the room.

"Anyway." she murnured content. "I've Lord is attendin' to all that"

"Panyl with the heavy air."

Pearl slept the heavy sleep of healthy childhood and woke in the gray dawn before anyone else in the household was stirring. household was stirring. She threw on some clothing and went down the ladder into the kitchen. She started the fire, secured the basin full of water and a size of the secured the basin full of water and a piece of yellow soap and came back to her room for her 'oliver.'

"I can't lave it all to the Lord to

"I can't lare it all to the Lord to do," she said, as she rubbed the soap on her little wash-rag. "It doesn't de to impose on good nature." When Tom, the only son of the When Tom, the only so did to the to the word of the word of the total to the total to the word of th tle boiling.

Pearl looked at him with her friend-Irish smile, which he returned awkwardly.

awhwardly.

He was a tall, stoop-shouldered,
He good-looking lad of twenty. He
rather good-looking lad of twenty. He
had heavy gray eyes, and a drooping moget had gone to school a few winters when there was not much doing,
but his either thought it was a great
deal better for a boy to learn to
handle hoes and "sample wheat,"
and run a binder, than learn the
"pack of nonsense they got in school
nowadays," and when the pretty
little teacher and when the pretty
little teacher school, Mrs. came to Southfield school, Mrs. ship came to Southneid school, Mrs. Motherwell knew at one glance that Tom would learn no good from her—she was such a flighty looking thing! Flowers on the under side of her

hasi So poor Tom grew up a clod of the valley. Yet Mrs. Motherwell would tell you, "Our Tom'll be the richest man in these parts. He'll get every cent in these parts. He'll get every cent in the and all the land, too; and I sees there won't be many that can afford to turn up their noses at our Tom. And, mind ye, Tom can tol' a horse as well as the next one, and he's a boy that won't waste nothing and he's a boy that won't waste nothing. and he's a boy that won't waste noth and he's a boy that won't waste noth-in', not like some we know. Look at them Slaters now: Fred and George have been off to college two years, big-grown hulks they are, and young Peter is going to the Agricultural College in Guelph this winter, and the old man will hire a man to take care of the stock, and him with three of the stock, and him with three boys of his own. Just as if a boy can learn about farmin' at a collegel: boys of his own. Just as if a boy can learn about farmin' at a college! and the way them girls dress, and the old lady, too, and her not able to speak above a whisper. The old lady wears an ostrich feather in her bon-net, and they're a terrible costly thing, I hear. Mind you they only learn siv own and the sand even thing, I near. Mind you they only keep six cows, and they send every drop they don't use to the creamery Everybudy can do as they like, I suppose, but I know they'll go to to the wall, and they deserve it, too!"

to the wall, and they deserve it, too!"
And yet!
She and Mrs. Slater had been girls
together and sat in school with arms
entwined and wove romances of the
future, rosy-hued and golden. When
they consulted the oracle of "flinker
tailor, solider, sailor, rien man, poor
man, beggar man, thief," the buttons
on her gray winese dress had declared man, beggar man, thief," the buttons on her gray winsey dress had declared in favor of the "rich man." Then she had dreamed dreams of silks and satins and prancing steeds and liverious dervants, and ease, and happiness—dreams which God in His mercy had let her forget long, long ago.

When she had become the mistress of the big stone house, who strenged to

of the big stone house, she struggled hard against her husband's penurious ness, defiantly sometimes, and some-times tearfully. But he had held her

down with a heavy hand of unyielding determination. At last she grew weary of struggling, and settled down weary of strugging, and settled down in sullen submission, a hopeless, heavy-eyed, spiritless woman, and as time went by she became greedier for money than her husband. "Good-morning," Pearl said bright-

"Are you Mr. Tom Motherwell?"
"That's what! Tom replied. "Only in needn't mind the handle."

you need t mind the handle."
Pearl laughed.
"All right," she said. "I want a
little favor done. Will you open the
window upstairs for me?"
"Why?" Tom asked, staring at her.

"Why?" Tom asked, staring at her.
"To let in good air. It's awful close
up there, and I'm afraid I'll get the

rever or something bad."
"Polly got it," Tom said. "Maybe that is why Polly got it. Sh's awful sick now. Ma says she'll like as not die. But I don't believe ma will let open it.

"Where is Polly?" Pearl asked eag erly. She had forgotten her own wor-ries. "Who is Polly? Did she live

"She's in the hospital now in Brandon," Tom said in answer to her prandon, for said in answer to ner rapid questions. "She planted them poppies out there, but she never seen the flowers on them. Ma wanted me poppies out there, but she never seen the flowers on them. Ma wanted me te cut them down, for Polly used to put off so much time with them, but I didn't want to. Ma was mad, too, you bet," he said, with a reminiscent

you bet," he said, with a reminiscent smile at his own foothardiness. Pearl was thinking—she could see the poppies through the window, bright and glowing in the morning light. They rocked in the wind, and a shower of crimson petals fell. Poor Polly! she hadn't seen them."
"What's Polly's other name?" she asked onich!

"What's Polly's other namer sne asked quickly.
"Polly Bragg," he answered. "She was awful nice, Polly was, and jolly, too. Ma thought she was lazy. She used to ry a lot and wish she could go home; but my! she could sing fam."

Pearl went on with her work with occupied air.

"Tom, can you take a parcel for me to town to-day?"

(Continued next week.)

#sssssssssssssssssssssss The Upward Look

Obstacles to Prayer

For the eyes of the Lord are over the righteous and his ears are open unto their prayers; but the face of the Lord is against them that do evil.—1 Peter 3: 12.

Christians who are right with God Christians who are right with God find great joy in prayer. If our prayers do not bring us the peace we desire, if we feel that they are not being answered then — sanould search our hearts to find if there is any hidden sin that is coming between us and God. Not until we have removed exact him of the control of the cont everything out of our lives that is likely to be displeasing to God need we expect that God will pay any at-tention to our prayers. We must first "get right with God."

God has commanded us to love our

God has commanded us to love our enemies. If there is anyone against whom we hold feeling of ill-will we may rest assured that God will for-give and listen to us only as we for-give and are willing to help those whom we dislike. This may be a hard thing to do but God requires it of us.

If we value wealth, fine homes, good looks, our children or other dear ones more than we do God's approval, then we have idols in our heart. We need we have idols in our heart. We need not expect God to listen to our pray-ers as long as we give Him only se-cond place in our heart. God will not heed our petitions un-less our first and chief desire is to

less our first and chief desire is to please Him in everything that we do. We must not only endeavor to remove all sin from our life but we must,

also, endeavor to do those things which God has told us to do. We must do those things that are pleas-

must do those things that are pressing in His sight.

There are many things, which, if we are not careful, will creep into our lives and prevent us from obtaining the gift of God's holy spirit, without which we are powerless to live as we should. Whenever we find our prayers ineffective we should not conclude that God does not want to grant us our petitions. We should humble ourselves before God and should pray to Him in the words of the Paalmist. "Search me, O God, and know my heart; try me, and know my thoughts, and see me, O God, and know my heart; try me, and know my thoughts, and see if there be any wicked way in me.' (Paslms 139: 23, 24). We should wait the fore God until He has shown us whatever is displeasing in His sight and then we should make haste to remove it, counting not the cost.

The Fireless Cooker Janet M. Hill

The quality of food is, in large measure, determined by the proper management of the heat used in its

Often, when we come into our own nouses or go into the houses of our riends, we are made aware by the houses or go made aware by the friends, we are made aware by the odors that permeate the atmosphere that chicken, fish or, possibly, onions are to be served at the coming meal are to be served at the coming meal. These dors may not alawys be objectionable, especially if we bring a good appetite with us, yet these same odors, clinging to draperies, etc., become stale and prove to be anything else than wholesome or agreebale. But this is only one item of the matter to

te considered.

Did it ever occur to you that the
dish to be served us thus much poorer in quality, because of this loss of
extractives which it has incurred?
Let these volatile odors and flavors
cnee be dissipated throughout the
house, and how can they be brought
back again to the soup kettle or the
roast? We are wont to eat too much
dry and insipid food,—food that has
loat much of its nutritive properties te considered. lost much of its nutritive properties lost much of its nutritive properties through injudicious cooking. And, besides, this loss occurs most largely in meats, fish and the more expensive kinds of food. Have you ever noted the gray, solid particles upon the in-ner surface of the cover of the key-tle in which meat has been cooked in furiously boiling water? These coacfuriously boiling water? These coagulated juices represent quite a por-tion of the nutriment and extractiveness for which we have paid our money. This valuable material goes

out in the dishpan and the flavorless

muscle is sent to the table.

The temperature to which food is to the efficiency of the cook. The flavor secured in the exterior of meats, browned in a hot oven, cannot be improved upon, but after the initial searing, to keep in the juices, has been secured by this browning process, the secured by this ordering tenderest, juiciest and best-flavored meats are those in which the temperature of the interior of the joint does not rise above 130 degrees Fahr., for a power and the property of th lot rise above 130 degrees Fahr, for beef, mutton and game, nor above 160 degrees Fahr. for poultry and veal. So, too, in cooking meats in water by the process termed boiling, after the initial searing has been accomplished, either in the frying pan, the oven, or boiling water, the continued boiling of the surrounding water indicates a temperature too high for the best results. At the same time to keep the water in a vessel, ex-posed to currents of cold air and the changeable heat of an ordinary cooking range, at just the right temperature is a rather nice procedure, and calls for constant care and attention.

Right here is the point where the fireless cooker may be used to advantage and prove a never-failing source of comfort and delight. Let the article be subjected to the requisite de-gree of heat, first searing it over in the oven or frying pan when this is called for, then transfer to the fire-less cooker and cover closely at once, and after a sufficient interval of time, and after a summent interval of time, without further thought or care, the dish will be found to be cooked most thoroughly and satisfactorily.

Another feature of the cooker, which eliminates attendance in the kitchen,

the fact that the dessert, if it be in is the fact that the dessert, if it be in the form of custard, cabinet or bread pudding, rhubarb or blueberry betty, or similar dishes, may be set into the cooker, at the same time as the oth-er viands, and left, without injury, until all are removed. If it be desir-able to embellish the dessert with a meringue, this may be added on the removal of the dish from the cooker, when the delicate coloring requiri-naw be secured in the open and the properties of the many be secured in the open and the properties of the pro-may be secured in the open and the pro-may be secured in the open and the pro-may be secured in the open and the promay be secured in the oven.

HOW THE COOKER WORKS

In a fireless cooker the cooking done by retained heat; if the enclosed heat be let out, cooking soon ceases beat be let out, cooking soon ceases. With a stove to generate the heat and a fireless cooker to retain it, the hours spent over a hot store in a hot kitchen may be cut down to the miximum and the summer season be thus made an occasion for enjoyment for all members of a family.

Fireless cookers give good results with such dishes as are cooked in boil ing water; as ham, leg of lamb, corned beef, stews of all kinds, fricasses, cur-ries, etc., soups, custards and all pud-dings cooked custard fashion. Probdings cooked custard fashion. Prob-ably no fireless cooker will turn out Boston baked beans as satisfactory as are those that have been baked in a well-regulated oven; but in some cook-ers the flavor of the well-browned ex-terior of a roast which has been ob-tained in the preliminary cooking in the oven, is retained during the low. the oven, is retained during the long

process in the fireless cooker.

The length of time to be given to the preliminary cooking of a dish, in preparation for the fireless cooker, varies with the article to be cooked, and much depends on its size and much depends on its size. Be-fore consigning food of any kind to the fireless cooker, the temperature at the very center of the article must be raised to the proper cooking point for this specific article, then the cooker will conserve this heat until the cooking is completed. Soups, stews, etc., must be at the boiling point when removed from the source of original heat.

Just as the fireless cooker conserves heat, so will it conserve cold. For instance, a quantity of well-frozen ice stance, a quantity of well-frozen ice heat for the stance of the stanc Just as the fireless cooker conserves

bottle now coming into such common use. Both are designed to keep hot things hot, and cold things cold. The cooking process involved is that highcooking process involved is that night of slow, long continued cooking, which, in so many cases, produces the most delicate and acceptable dishes. As a thing of convenience, on many an occasion, nothing can take the place of the cooker for it provides the means of present ing, at evening or in the morning, the main dishes of a meal that have called for no thought or care during called for no thought or care during the ten or twelve preceding hours. The fireless cooker, the direct des-cendant of the old-time hay box, is an article of real and practical util-ity, and well worthy of a place in any

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Throw away the old washboard!

How about that heavy family washing that has to be done each week? It seems incredible, but there are still some people who continue to use the old backbreaking washboard method, which makes common drudges of Mother, Wife and Sister (which results in irritable, nervous, over-worked women.) Our



Th public pert will after sent tions hold Slice fine, a taking ient m

Ju

nese

One melted, heaping tomatoe ty minu lt and Stir tog add one serving.

gravy Then a

flour, d ring all

Two c lard, 3 e teaspooning power for ten r Eat me breakfast

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Resessassassassassassassa,

THE COOK'S CORNER Sand In your favorite recipes, for the cooking are solitoid, and the cooking are solitoid. Send in your favorite recipes, for publication in this column. Inquiries pertaining to cooking are solicited, and will be replied to, as one so solicited and after receipt of same. One of the form of two new yearly subscriptions at \$1.00 each. Address, Household Editor, this paper

ONION GRAVY

ONION GRAYY

Slice a medium-sized onion very fine, and cook in 1 tablesp butter, taking care not to burn. When the coilons are a golden brown and sufficient milk to make the quantity of gravy desired, and let this boil up. Then add slowly 1 heaping tablespoon flour, dissolved in a little milk, stirring, all the while, so it will not get lumpy. Season with sait and pepper, and if desired, add 1 well-beaten egg-and if desired, add 1 well-beaten egg-

TOMATO SOUP One even tablespoonful of butter, melted, not browned, mixed with a heaping tablespoonful of flour. Put tomatees with twice as much water as there are tomatoes and cook for twenthere are comacoes and cook for twen-ty minutes. Strain and season with salt and pepper and a pinch of soda. Stir together, turning tomatoes into the flour and butter gradually, and add one cupful of hot milk just before

serving. BROWN SUGAR COOKIES.

BROWN SUGAR COCKIES.

Two cupfuls of light brown sugar, one cupful of melted butter or part lard, 3 eggs, ½ cupful cold water, one teaspoonful soda, 2 teaspoonfuls baking powder in flour. Set on the ice for ten minutes. Handle as lightly as you would biscuit dough.

Want to be strong?

Eat more Quaker Oats. Eat it for breakfast every day. This advice is coming from all sides as a result of recent experiments on foods to determine which are the best for strength and endurance. It has been proved that eaters of Quaker Oats and such cereals are far superior in strength and endurance to those who rely upon the usual diet of heavy, greasy foods.

When all is said and done on the cereal food question, the fact remains that for economy and for results in health and strength, Quaker Oats stands first of all. It is the most popular food in the world among the foods sold in packages. It's worth a trip to Peterborough to see these great mills.

Put up in two sizes, the regular package and the large family size, which is more convenient for those who do not live in town. The large package contains a piece of handsome china for the

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Circulation Department, FARM AND DAIRY PETERBORO, ONT.

BOILED DRESSING

Mix together ½ tablespoon salt, I teaspoon dry mustard, 1½ tablespoon sugar, ½ tablespoon flour, and a few grains cayenne pepper. Add the sigar, % tablespoon Bour, and a few grains cayenne pepper. Add the yolks of two eggs slightly beaten, 1½ tablespoons melted butter, 3; unilk, and lastly and very slowly, ½ cup vinegar. Cook in a double botler until mixture thickens.

CHEESE AND RICE

Boil enough rice to nearly fill a baking dish—be careful to have it white and fuffy—fill the dish, then cover the top about an inch then cover the top about an inch then cover the top about an inch then cover generously with butter, add half a cupful of cream and place in the oven about five minutes before serving.

BEEF LOAF

Three pounds of chopped uncooked beef, three or four alices of bread, broken fine and moisted with hot water, three well beaten gegs, add salt, pepper, celery salt, when well unter the size of an egg. When well unter the size of an egg. When well the construction of the size of an egg. When well the size of an egg. When well the size of an egg. When well a little hot water over, and bake about an hour. This will make a loaf large enough to serve eight persons. PORK AND GREENS

FORK AND GREENS

Carefully pick over, wash and drain dandelion greens, and add just a little bit of horseradish top. Cook until tender in boiling water. Into the frying pan put 3 or a tenlespoorfuls pork drippings, add water (half and and until the control of t

SCOTCH SCURES.

This is a way of making a delicious foreign invention. Make a soft dough, just stiff enough to roll out, of dough, just stiff enough to roll out, of two cupfuls of butternilk, two table-spoenfuls of butter, the same of su-gar, one teaspoonful of salt and four cupfuls of flour sifted with two tea-spoonfuls of baking powder. Just specified by the sum of the sum of the volks of the sum of the sum of the volks of the sum of

Recesecceccecceccecce OUR HOME CLUB Resessessessessessessesses

THE BOY'S ALLOWANCE

THE BOY'S ALLOWANCE

That's right, "Son", I'm glad to see you come out and assert your rights, and not go on working year after year for your board and clothing, not knowing that you will ever get anything mo the your will ever your wediting suit all was to pay for your wedding suit all was to pay for your wedding suit after you leave home. Father then come from the first without you, although you the farm without you, although you the farm without you, although you too mentioned in the work before. Maybe all gathers are not like this one mentioned, but there are such fathers. Is if any wonder the boys leave the farm? Let use hear from the boys and fathers too...."Alnt Sue."

THE HOUSEWIFE'S ALLOWANCE

THE HOUSEWIFE'S ALLOWANCE

I felt like cheering when I read
"The Pastor's Wife's," opinion on the
wife's allowance. I heartily agree
with her that all the money in the
world cannot buy the happiness found
in some of our country homes. Neither is it the pleasantest feeling in
the world to feel your great need of
something for the home and see the
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anything they will grin and bear it and say nothing. It is very hard to know just where to draw the line, as different positions require different means, but a support of the same suppor ...

The Red Ant

The Red Ant

It is a well known fact that small red anis, that sometimes become great pests in houses, may be kept from tables, pantry shelves and other plactes where food is kept, by washing parts of the surfaces over which they must pass to reach the food places with a saturated solution of corrosive sublimate. Care must be talen in using the solution, as it is a deadly poison. Keep bottle away from the callidren's search, and have it properly with the surface of the properly with the surface of the properly with the surface of the properly of the surface of the properly of the surface of the properly of the surface of the sur

. . . Support for Vines

Support for Vines

Last year I tried a new support for flowering vines which proved most satisfactory. I took two light sticks long enough to reach across the end of the place and placed the vines fat on the place and placed the vines are placed to the summer in such good condition. The first frosty nights the vines were placed on the ground and covered with a blanket so that our blossoms remained sets so that our blossoms remained sets and the place and the place

...

The Quaker Oats Company is advertising Quaker Oats griddle cakes. They say that these cakes are the most popular dish served in their New York cereal restaurant. Children especially should delight in Quaker Oats griddle cakes; the kind that you can't eat too much of.

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walled and order to the paterns of the patern of the paterns of the patern of the p

CHILD'S TUCKED DRESS 6364



The dress consists of the long blouse of the long blouse and the skirt. The blouse is tucked in groups and the skirt is finished with a hem and three tucks above. The two are gathered and joined by means of a straight belt.

Material required

straight belt.

Material required
for the midium size
(4 yrs) is 3% yds 24,
2% yds 32 or 2%, yds
44 in wide with 1%
yds of banding, 1%
yds of edging.
The pattern 6364 is
out for girls of 2, 4,
and will be mailed to
ceipt of 10 cts.

and 6 yrs of as any address on

GIRL'S SAILOR JUMPER SUIT 6374



JUMPER SUIT 527
The skirt is straight, and can be either plaited or gathered at its upper cdge, where it can be joined to a fitted body. The blows on a belt, The blows on a belt, The blows portions. It is faced at the front and back with front and back with front and the collar is Joined to collar is Joined to pollar in Joined to plain ones, with cuffs niishing their lower cdges.

edges.
Material required

Material required for the medium size (if yrs) is 6% yds 21. or 5% yds 1 yds 22. or 5% yds yds ob handing. 7% yds 0 handing 1 yds 22. or 5% yds of handing 1 yds 1 yds 0 handing 1 yds 1 yds 0 handing 1 yds 1 yds 0 handing 1 yds 1

ROUND YOKE NEGLIGEE 6365



The negligee is made with fronts and back, which are gathered and joined to the yoke. The edges of the short sleveres can be held together by ribbon ties or tacked the total together as liked.

Liked. The long slevers are plain and out in one piece each.

each.

Material required
for the medium size
is 5½ yds 24, 3% yds
32 or 2% yds 44 in

The pattern 6365 is cut for a 34, 36, 38, 40 and 42 in bust measure, the embroidery pattern 425, one size only, and will be mailed to any address on receipt of 10 cts.

FANCY DRAPED WAIST 6206



for the bands.

The pattern is cut for a \$2, 34, 36, 38 and 40 in bust and will be mailed on receipt of 10 cts.

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.

BULL TRANSFERS FOR APRIL. 1999
The publication of these transfers is paid for by the Holstein-Friesian Breeders' Association:
(Continued from our last issue.)

paid for by the Holstein-Friesian Breeders' Association:

(**Continued from our last issue.**)

(**Sir Pieterig Mercena.** W. H. Simmons to Richard Connolly. Ingersoll. Ont.

Sir Pieterig Mercena. W. H. Simmons to Richard Connolly. Ingersoll. Ont.

Sir Pieterig Mercena. W. H. Simmons to Richard Connolly. Ingersoll. Ont.

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Sir Toitill Johanns. Wm. Walter to J. W. Richardson. Caledonia. Ont.

Sir Victor De Kol. D. G. Cooderham to John J. Weir. Malvern. Ont.

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Sir Wilfred Q. D. Kol. J. H. McLean to Charles Echinson. South Mountain. Ont.

Sir Wilfred Q. D. Kol. J. H. McLean to Sir Wilfred Q. D. Kol. J. H. McLean to Son. W. Sir Wilfred Q. D. Kol. J. H. McLean to Son. Ben. Spieled. Smith: Palls. Ont.

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Taxon D. Kol. N. Sansater to Louis Alme Maheu. St. Martin. Que.

Mills, Canlifton. Ont.

Teddy the Scamp. Sannel Dicke to F. Hismuss St. Johns. Mill.

Victor Jerome. Herbert Sayers to Wm. Conlett. Thomashur. Ont.

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Victor Jerome. Herbert Sayers to Wm. Conlett. Thomashur. Ont.

Secretary.

HOLSTEILLE, Sprinss. Ont.

Secretary.

H

HOLSTEIN-FRIESIAN COW TRANSFERS FOR APRIL.

Aaggie of Riverside 2nd, J. W. Richardson to M. H. Haley, Springford, Ont. Abbekerk De Kol, Wm. Balley to Wm. Higginson, Interman, Ont. McLean to Wm. Bartly, Inkerman, Ont. Aggie Tensen, John Clarkson to Robert Agar. Nashville, Ont. Agrie De Kol Daisy & Birdie S. De Kol, Qu. Montie to C. E. Noiseux, 8t. Jean.

Que.
Albino De Kol Manela, C. R. Gies to
Henry Beckner, Hawkesville, Ont.
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Alice De Kol Queen, C. V. Robbins to
Wm. H. Beckett, South Pelham, Ont.

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One Quart......40c

Cow

Althe Posch. Edron Crowder to Wm. Higginson, Inkerman, Ont. Higginson, Inkerman, Ont. Higginson, Inkerman, Ont. Higginson, Inkerman, Ont. Higginson, De Kol; Rosie Grey; Winnie Zugenie De Kol; Isaac Hewitt to Roy Hew. Limin, Durham, Ont. A. Hubbs to E. W. Limin, Durham, Ont. A. Hubbs to E. W. Limin, Durham, Ont. Artis Mechibile De Kol, J. H. Taylor to Samuel Poole, Norwish, Ontons to W. H. Artis Mechibile De Kol, J. H. Taylor to Samuel Poole, Norwish, Ontons to W. H. Detenbeck, Black Greek, Ont. A. H. Weeple, Gurriek, Ont. J. H. McLean to C. H. T. Weeple, Gurriek, Ont. J. H. McLean to Greek, Ont. H. Weeple, Gurriek, Ont. J. H. McLean to Greek, Ont. H. Weeple, Gurriek, Ont. J. H. McLean to Greek, Ont. H. Weeple, Gurriek, Ont. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to C. W. Weaver, Deloraine, Man. J. H. McLean to M. H. Haley, Springford, Ont. Lowrie to M. L. Haley, Springford, Ont. Lowrie to M. L. Haley, Springford, Ont. Lowrie to M. H. Haley,

Patierson, Alford Jet., Ont.
Bonnie Pauline Berbie De Kol, R. A.
McCready & Son to David Smith, Avon.
Braemars Maid, S. R. Beck to W. B.
Cockburn to C. R. Gies, Heidelberg, Ont.
Character, Canada Markeller, C. M. Charlotte, C. M. Charl

Terrill to James Birchard, Linden Valley, Ont.

Domino, Luther Deeks to Harold Burerror Development of the Control of the Co

Fanny Belle B.: Modesty of Ormond; rouks 4th's Sylvia Maud; Peter A. Me-sarcastic Lass of Riverside, Matt. Rich onald, to D. C. Flatt & Son, Millerove, oth. Fanny B. Pa;ti, S. Hartley to Miles Mercena Aeme Queen, Ephraim James to

B. Johnston to Lloyd Bros, Westholme, B. Johnston to Lloyd Bros, Westholme, J. Amer. Thompson to J. B. McGoll to And. C. Ferguson, Ochonic, Ost. Ideal Netherland Posch, W. J. Balley to Gay M. Wiedrick, Springvale, Ont. Onderlick Westholmer and Control Co

S. Anderson, West, RIVET SILE, N.-B.
S. Anderson, West, RIVET SILE, N.-B.
Poole, all Carlot C

Lily De Kol of Minster Farm. Stewart Carruthers, to John Mird Chesterville, On De Kol End. R. A. Gillespie to M. E. Woodworth, Lacolle, Que. Louisenne, Jos. B. Ferland to L. A. Wasver, Deloraine, Man. Males Helle, J. H. McLean to C. W. Wasver, Deloraine, Man. H. Smiget to Dalby Texai, J. H. Taylor to Magie Cornelia Netherland, S. H. Smiley to J. W. Johnson, Sylvan, Ont. Magie Cornelia Netherland, S. H. Smiley to J. W. Johnson, Sylvan, Ont. Magie Cornelia Netherland, S. H. Smiley to J. W. Johnson, Sylvan, Ont. Magie Cornelia Netherland, S. H. Smiley to J. W. Johnson, Sylvan, Ont. Manela's Florence De Kol, C. R. Gles to Henry Beckner, Hawkeville, Ont. Parewell, Bt. Clemah, W. Scheffele to Jos. Parewell, Bt. Clemah, W. Scheffele to Jo

Molly Tensen, R. P. Hicks to John Al-an. Newton Brook. Oat. Nellie Aberdeen, Wm. Armstrong to Wm., P. Elliot, Coleman, Ont. Netherland De Kol, R. P. Hicks to Wm. Vatson, Pine Grove, Ont. Netherland Jewel De Kol; Princess Acme De Kol; W. J. Bailey to B. V. Balley, fober, Ont.

P. Elliof. Coleman. Ont.
Netherland De Kol. R. P. Hicks to Wm.
Watson, Pine Grove, Ont. P. Friecess Acme
De Kol. W. J. Bailer, to R. V. Bailer,
Nober, Ont.
Relieved The Coleman Coleman Coleman
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(To be Continued next week.)



The Lawrence-Williams Co., Toronto, Ont.

DANII warm w seeding nip sowi week. F the resu The chee busy and ers are fine crop well. The througho be doing ing condi

Jul

neees

OU

TURRIE more. Cr to get. V to get. ers here. ence, yet planted tl and provi well.-W. SIDNEY.

althy bu failure, ve will have is looking have been d by ice. There is a plums, ber ception of varieties s be a very plate but ve hay, \$15; barley, 75c 90c a bush 20c a doz: toes, \$1 a oes, \$1 a 87.40; chick M

LAMBETE

writer has a the prospec yield. Man head and l good and coutput when Cherries are ered their ing to prev og to prevelepful. La helpful. La which is no for road rep work, such uses and of the last for BYRON.-F splendid provest. To-day for the stray hand a visit urrying fing an evidence ket this mo while the pi boxes each a on nicely, so of two feet.

ON TAUNTON .although a g Haying has c short owing t dry weather. of straw. Old brought out ing. Farmers year than a y
of new silos a
commodate th
S. A. N.

growing to the The heavier grain are O.1

NORTHU WICKLOW.—
unusually good
grain. Peas ar
is not as go

THE PETERBORO HARDWARE CO., LTD. PETERBORO, ONT.

Al-

Contributions Invited.

QUEBEC

RICHMOND CO., QUE.

RICHMOND CO., QUE.

DANILLE.—We are having very fine warm weather and plenty of rain; hay and grain crops are growing rapidly; all seeding is done with the exception of turning sowing. The majority will finish this condition and her result is are in fine condition and her result is are in fine condition and her result in the condition of young found the country and all seem to the condition.—M. M.

ONTARIO

ONTARIO

HASTINGS CO., ONT.

HASTINGS CO., ONT.

TURNIFF.—Pine weather prevails once more. Corose were beginning to suffer but have more than the prevails of the prevails

SIDNEY. — Crops are looking very healthy but late. Timothy meadows are a failure, very short and thin. Nearly all will have to be plowed up. New seeding is looking very good but the meadows that have been cut one or more tirgas were kill.

MIDDLESEX CO., ONT.

MIDULISER CO., ONT.

LAMBETH.— The first having that the writer has seen this year, was done north of this place, and at this office a verage yield. Many helds of barley would in head and look fine. Fall wheat, and look fine. Fall wheat good and some fields will show a sign output when the threshers go their rounds. Charles are fast risentine. Some have core.

ONTARIO CO., ONT.

ONTARIO CO., ONT.

TAUNTON.—Everything is looking fine, althouse a good rain would help things. Haying his good rain would help things althouse for the short owing to the load. The early cut is short owing to the load. The early cut is short owing to the load of the short owing to the load of the short owing to the load of the short of the short owing the short of the short of the short owing the short own the short of the short own the short of the short own the short of the short own t

OUR FARMERS' CLUB last season; blows that have come seem very large and thrifty. Pastures keep very good—E, B, H.

WENTWORTH CO., ONT.

wery good.—E. B. H.

WENTWORTH CO., ONT.

KREWALL. — The warm seather of the past few weeks has caused very rapid grow. h. Fall wheat is looking were will be up to the average; in some places will be up to the average; in some places will be up to the average; in some places hardly argo as past years. Spring frains argo as past years. Spring frains argo as past years, spring frains argo as past years, although an occasional rain they time and with an occasional rain they are an expensively as good as in past years, although nearly as years, and the work of the past is \$1.5 a bush; buckwheat; \$5 to 1.1 and the past is \$1.5 a bush; buckwheat; \$5 to 1.1 and \$1.5 a bush;

THUNDER BAY DISTRICT, ONT. SLATE RIVER VALLEY.—The valley is imply parched for rain. The hay crop, SLATE RIVER VALLEY.—The valley is simply parched for rain. The have con-which should be harvested in a couple of which should be have only had one good rain and that the have only had one good rain and that will march, since July, 1930. The drought will march since July, 1930. The drought very complete the proper stud-for their hay crop is their support. Such for their hay crop is their support. Such of the property of the p

ESSEX CO., ONT.

ARNER. The hot dry weather of the last five days has made a decided change in all hoed pass made and decided change in all hoed in some castle planting the sarlier planting. Tobacco is shirtly, and in some cassed in tell swing now. The first has been supported by the planting to the sarlier planting. Tobacco is shirtly and but is not growing much for lack of moist law in the planting. Tobacco is shirtly have been supported by the planting to the sarlier planting. The sarlier has been supported by the sarlier ha

BRITISH COLUMBIA COMOX-ATLIN CO., B. C.

COMOX-ATLIN CO., B. C.
COMOX.— The June rains have greatly
benefited hay and root crops. With continued moist weather the continued moist weather the continued moist weather the continued moist moist are favorable. Dairymen are erecttious are favorable. Dairymen are erecttious are favorable. Dairymen are erecttious favorable to a continue of the continue o

SPECIAL JUNE CROP BULLETIN

SPECIAL JUNE CROP BULLETIA Owing to the unusually we, total on was generally backward spring, we atton was greatly checked, and in many but little sowing or planting had been just be schedule for the May Bulletin was seekedule for the May Bulletin was chemically contrained to the contrained of the c

THE WEATHER.-April was an unusual-THE WEATHER.—April was an unusually wet and cold month, and early soving were hindered. The first half of May was also unfavorable to farm operations and sun flavorable to farm operations and sun flavorable to farm operations and backwarf the end of that month. However a genue to the property of the cold property of the property of

TAUNTON.—Everything is looking fine, although a good rain would help things: laring has commenced. The early cut is about owing to the late spring and recent and the control of the contr

LIVE HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

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Peterborough Gereal Co., Peterborough

the present outlook for the crop is more favorable than that reported a month ago. New meadows have done much butter than old ones, and clover is reported divert than old ones, and clover is reported tively ahead of timothy. There has the practically no complaint of the midge The poorest accounts concerning hay come from the Rt. Lawrence and Ottawa counties and practically no complaint of the midge. The poorest accounts concerning hay come from the St. Lawrence and Ottawa countees and the northern districts. Cutting the fully a week later than usual. The preparating alfalfa are practically unantimous as to the vigorous growth of that even.

SPILING GRAINS — The bulk of these crops have been swen a week or two later than ordinarily; in face some oats and barley were being put the spirit of the s SPRING GRAINS. - The bulk of the

The area has been

The area has been considerably enlarged this year, and the only drawback to the situation is the lateness of planting: in situation is the lateness of planting: in situation is the lateness of planting: in the situation of the

peas, as much seems as a series of the composition of the composition

MARKET REVIEW AND FORECAST

Toronto Monday, July 5th, 1999 — The general improvement in crop conditions the past couple of weeks has created a crop of the past couple of weeks has created a crop of the past couple in trade circles, who can be considered to the past couple of the past cou vaccee the large mab- and high price of cheese is causing the circulation of con-siderable money in the country, and more buying is being done. The demand for money for commercial purposes continues good. Banks have advanced their rates a little on call money to 4c to 4½ per cent. Mercantile paper is discounted at from 6 to 7 per cent.

WHEAT

A feature in the wheat situation the past week has been the better export demand, though at the end of the week the Liver-pool market was not so strong. Export though at the end of the week the Liverpool market was not so strong. Export
transactions were put through at \$1.2 f.o.b.
transactions were put through the state of the
transactions were put through the state of the
transactions have
strengthened the hands of holders as it
was expected that about \$1.15 was about all
that could be expected in the early future.
The source of strength in the European
situation was the large falling off in shipments from the Argentine. India, on the
other hand, has largely increased her exother hand, has largely increased the rexorder hand, has largely increased the rexhand the created an easier feeling in Liverpool cables at the end of the week. New
fall wheat in the southwestern states continues to be marketed in large quantitinues to be marketed in large quantitinues. Farmers are rushing their wheat to
market as soon as ready and many have ties. Farmer's are rushing their wheat to market as soon, as ready and many have sold for future delivery. Conflicting re-ports come as to how the crop is yielding. The estimates for the Kansas crop, which is one of the pivotal states in the wheat area of the Southwest, vary from £0,00,000 to 10,00,0000 bushels. A conservative esti-mate is about 70,000,000 bushels, or about the same as last year. Better crop reto 10000000 bushels: A conservative estimate is about 780,0000 hushels, or about ports affected the Chicago market at the end of the week, and prices declined to \$1.48½, for July and \$1.99%, for September. At Winnipse on Friday there was a drop of the conservation of the Price of the Chicago market is not as high as a week ago. Dealers are only quoting \$4.31 to \$1.55 outside for Ontario wheat. Ontario fall wheat some districts the crop is better than it has been for some years and if conditions continue favorable a good average yield for the province is expected. Millers who have more wheat than they require are beginners and the conditions of the province is expected. Millers who have more wheat than they require are beginners. On the Toronto farmers' market fall wheat sells at \$1.35 to \$1.38, and goose at \$1.20 to \$1.25 a bushel.

COARSE GRAINS

The oat market is not so strong though prices on the local market here show little change. Western oats are 1c lower. Hittle change. Western oats are le lower. Dealers here quote Ottario oats at 87% to 85% on track Toronto and 55c to 56c ontside. On Toronto farmers' market oats sell at 66c to 61c; barley at 65c to 64c, and peas at 55c to 81 a bushel. Prices for barley and peas are largely nominal, as there is little doing in those grains.

FEEDS

Mill feeds show little change in prices though the market is easier owing to the falling off in demand. There is very lit-tle Ontario bran offering. Shorts are more

VENTILATION For Dwellings, Rural Schools and Stables By Prof. F. H. KING

This is a new book tissued December 1988, which treats in a concise, practical way, the question of Ventilation in all its details. It shows the necessity of resultation, and tells how to entilate, drawings never before used. Special chapters are given on the ventilation of houses, both new and those already built, school thouses and churches, and of stables, poultry houses, etc. Send for a copy.

Price, post paid - 75c.

Book Department THE RURAL PUBLISHING COMPANY

The plentiful but the demand is slow. Deal-nditions ers here quote Manitoba bran at \$3 to extend a seated a \$2 to 85; and obners at \$25 in ear lots bran at \$25 and shorts at \$25 in ear lots of the seated ter. Reports from the Western States re-garding the growing crop are very fav-orable. In Kanas It is predicted the corn crop will be the greatest in its listory. The market is, however, not yet affected and quotations show little change. American corn is quoted here at 80 to 81% and Canadian at 78 to 76 a bushel in car lots, Toronto freights.

HAY AND STRAW

As haying approaches conflicting reports appear as to the crop. In some places it is said to be excellent, in others less than an average crop. As a rule, old meadows an average crop. As a rule, old meadows considered the control of the control o

POTATOES AND BEANS

There is little change in the potato market. New American potatoes are on the market, quoted at \$3.50 to \$3.75 a bbl., and the demand for old stock is quiet. Ontarios are quoted here at 85c to 90c as bag in car lots. On Toronto farmers' market old potatoes sell at \$4.10 to \$4.15

The bean market is firmer owing to scarce supplies. Dealers here quote primes at \$2.25 to \$2.30 and hand picked at \$2.40 to \$2.50 a bushel.

EGGS AND POULTRY

EGG AND POULTRY

Egg receipts abow considerable falling
off and the market is firmer. The warm
and dealers have to be more careful in
selecting. Dealers last week were quoting
fic west and 16½ east of Toronto for
eggs at f.o.b. points. Prince Edward Island eggs are offering in Montreal at 17½
to 18½ ea dosen. Quotations here rule at
19c in case lots. Dealers here report market firm with receipts diminishing and
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FRUIT

Strawberry receipts at the end of the week were light and prices were higher under a good demand. On Toronto fruit market they sold at 6c to 7c a box for the general run and 7½c to 8c for select crates. Canadian cherries are quoted at \$1 to \$1.25 a bask

DAIRY PRODUCTS

DAIRY PROBUCTS

The cheese marked does not look so strong though quotations at the local cheese boards during the week show little change. A fair enquiry over the cable is reported at Montreal but bids are 64 to is below what experiers can sell at and make at 11½e to 112. The make in the country is at its flush. At the local boards at the end of the week quotations ranged from 11½e to 11½e. The make in the country is at its flush. At the local boards at the end of the week quotations ranged from 11½e to 11½e.

The inture market is weaker. An effort is being made it is said by exporters, to lower the prices so that exporting can be done at a profit. So far this season very little butter has been exported, able business. Butter is quoted at Montra-al till 20 to 21½e for creamery. Though the general situation shows weaker indications, the local market here is firm. Local is market here is firm.

the general situation shows weaker indica-tions, the local market here is firm. Local wholesale quotations are: Choice creamery prints, 25 to 36c; solids, 250 to 21c; choice dairy prints, 35c to 25c; ordinary, 15% to 17c; choice tubs, 15c to 15c a 15. On Tor-outo farmers' market choice dairy sells as 22 to 25c and ordinary at 15c to 56 a 15.

WOOL The wool market rules steady at que ations. Washed fleece is quoted at Mor treal at 22c to 22½ and unwashed at 15c a lb. Dealers here quote prices in country at 25c to 22c for washed; 12c to 13c for unwashed, and 15c a lb for re-jects. The number of farmers who sell their wool unwashed is increasing. The difference in price between washed and un-washed seems larger than the difference in quality should warrant.

HORSE MARKET

The horse trade keeps up well for this season of the year. Last week the Horse saason of the year. Last week the Horse hange. West Toronto, had one of the head of the season of the year to the head of the season of the season of the year last week ago. About 125 horses were sold during the week, a number of them going to distant points about in and outside of Ontario. The outside in and outside of Ontario. The outside in and outside of Ontario. The outside in the year of years report that it is difficult to surface the year of years and years the year of years and years the year of years of years and years the year of years and years of years yea

it is impossible for the dealer to pay unless he loses smore, Quotations at the Exchange last seek ruled about as follows Heavy drafts, 8180 to 820; general purpose. Heavy drafts, 8180 to 820; general purpose to 8200, and serviceably sound heres \$16 to 8200; drivers, \$15 and wagon horses, \$160 to 8200; drivers, \$15 and wagon horses, \$160 to 8200, and serviceably sound heres \$16 to 8200, and serviceably sound heres \$16 to 8200; drivers, \$15 and wagon horses, \$160 to 8200, and serviceably sound heres \$16 to 8200; drivers, \$15 and wagon horses, \$160 to 8200, and serviceably sound heres \$16 to 8200; drivers, \$15 and wagon horses, \$160 to 8200, and serviceably sound heres \$16 to 8200; drivers, \$16 to

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The Material

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Is of the highest order. THE PETER HAMILTON Co., LIMITED, employs only skilled workmen, and now has a force of experts that cannot be found in any other mower factory in the world.

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Skims Factory Co., at plant : Shafting

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Average que each, \$3.25 to each, \$3 to There was springers. springers. (sale at the buyers were \$35 to \$55 er

and stocker about stead

Under moc calves ruled a few of ex The sheep a week ago. Thursday exprams, \$2.50 t

rams, \$2.50 t to \$7.75 with The hog m prices are lo market is es ever, are so competition competition : keep up pric On the city On the city bacon hogs f at \$8 and \$7 points. The ? of July 1st q market is qu Canadian at 61s to 65s. A

PETER Peterboro, J delivered on to totalled 33,000.

FOR SALE TWO CENTS A WANTED-Per

us at home. den or farm to \$25 per booklet and Supply Co., 1 LUMBER FOR

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FOUNTAIN PE return for or to Farm and Dept., Farm

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ALL FOR Sensiting properly.

F.W. BRENTON &SON

Soc. Under moderate receipts trade in veal calves ruled steady at \$3 to \$6 a cwt, with a few of extra quality selling at \$6.50 a

The sheep and lamb market is lower than

The sheep and lamb market is lower than a week ago. There was a large run early like week and prices took a drop. On the state of the s

PETERBORO HOG MARKET

Peterboro, July 5, 1909. — Danish hogs delivered on the English markets last week totalled 35,000. The demand for bacon in

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WANTED—Persons to grow mushrooms for us at home. Waste space in cellar, gar-den or farm can be made to yield \$15 to \$25 per week. Send for illustrated booklet and full particulars. Montreal Supply Co., Montreal

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FOUNTAIN PENS, 14 K. GOLD—FREE IN return for one new yearly subscription to Farm and Dairy. Write Circulation Dept., Farm and Dairy, Peterboro, Ont.

PURE BRED PIGS.—Not for sale, but to give away, in return for seven new year-ly subscriptions to Farm and Dairy. Write Circulation Department, Farm and Dairy. Peterboro, Ont.

the Old Country was poor. The George Matthews Co., Ltd., quote the following prices for this week, f.o.b. country points, \$7.75; weighed off cars, \$8 a cwt: delivered at abattoir, \$7.75 a cwt.

MONTREAL HOG MARKET

MUNIVEAL HOG MARKEI
Montreal, Saturday, July 3rd.—The market for live hogs this week opened firm
with quotations wright up to \$8.75 a cert
for selected lots prices ease off care, but
prices eased off towards to the selected lots
week with increased supplies, and \$8.26
week with increased supplies, and \$8.00
week with increased supplies, and \$8.00
brossed hogs are firm under a good demand and prices are unchanged at \$12.0
a cert for fresh killed abattor stock.

an especially marked error in determining the true value of chesse.

The market for butter is firm and prices of the market for butter is firm and prices. The market for butter is firm and prices on the prices of the firm and the prices of the prices of

AYRSHIRE NEWS

Farm and Dairy is the official or-Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association, all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

WILLOWDALE STOCK FARM

WILLOWALE STOCK FARM
In this age when so many farmers in
eastern Canada are disposing of their
farms and migrating to the West, it is
rather out of the ordinary to have a man,
and has large interests in western Canada,
has been interests in western Canada,
has been interest in the case with J. M. M.
But such has been the case with J. M. M.
Haven, proprietor of Willowdale Stock
Haven, proprietor of Willowdale Sto

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barns and stables, which will be built of steel and concrete.

Clydesdales on this farm are of the quality and type, such as will be of good serving the stable of the sta

two mentiones.

Mr. Ness.
The Shorthorns are principally of the dairy type, although we noticed a few that conformed pretty well to the beef type. These were selected mostly from the herd of the late H. M. Cochrane of Hillburns, type.

MISCELLANEOUS

ABRAM EASTON, Appleby, Ont., Leicester sheep. Show ring and breeding stock for sale.

WANTED:---CHESTER WHITE SWINE.

We wish to purchase some pure bred Chester White Pigs, six or eight weeks old, Will any breeders having same for sale write, giving prices, etc., to

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AYRSHIRES

AYRSHIRES, males only, two fall and one spring caif. Enquire what their dams are doing. James Begg, St. Thomas. E-tf

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ages for sale. See our stock at the lead
ing shows this fall. Write for prices.

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