Issued Each Week—only One Dollar a Year

VOL. XXVIII

NUMBER 34

RURALTOME

PETERBORO, ONT.

AUGUST 26 1909



A WENTWORTH COUNTY HOME, A TYPE OF FARM HOUSE BECOMING POPULAR IN ONTARIO The day that the majority of the farm homes in Ontario were plain, square brick or frame buildings, is fast disappearing. To-day, as one travels through Ontario, and in other provinces as well, farm houses can be noticed that compare favorably with the best city residences. The home here illustrated, is on Summer Hill Farm, owned by D. C. Flatt & Son, of Millgrove, Ont. Mr. Flatt is the president of the Dominion Swine Breeders' Association and a director of the Canadian Hotstein-Friesian Association, and is one of the best known farmers and breeders in Canada.

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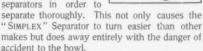
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COULD COLD STORAGE COMPANY Grey Nun and William Streets MONTREAL - QUE.

A Young Ayrshire Breeder

An Ayrshire breeder who, although still considerably less than 30 years of age, has already exhibited successor age, has already exhibited successfully at the Toronto and Ottawa exhibitions and who is likely to do so again, is P. D. McArthur, of North Georgetown, Que. Like a good many other well known breeders, Mr. Mc-Arthur got started showing at the fall fairs and in breeding cattle while he

Arthur gas fairs and in breeding cattle while newas only a youngster.

When a mere boy he went to an auction sale. In the stable he noticed a cow of good conformation and which, although she had been milking for some time, still but price to the stable of the stable of the sale of the stable of the sale of the stable of the sale of the March was \$150.35. Her feed only for the year was about \$50 cmouraged him. About 15 years ago, being then only the year was about \$50 cmouraged him. About 15 years ago, being then only the years ago he years ago he decided to make another step and purchased a pure bred years ago he decided to make another step and purchased a pure bred yearling Ayrahire heifer from his near neighbor, the noted Ayrahire breeder, Mr. R. R. Ness, of Howick, Mr. Ness is always ready to help his neighbors, especially new beginners, and he help-septicially make the years ago where the years and he help-septiment was a supportant to the years and the help-septiment was a support of the years and he help-septiment was a support of the years and he help-septiment was a support of the years and he help-septiment was a support of the years and help-septiment was a support of the years and he help-septiment was a support of the years and help-septiment was especially new beginners, and he help-ed Mr. McArthur to secure a good heifer. This gave Mr. McArthur his heiter. This gave Mr. McArthur his first start in breeding pure breeks. "Since then," said Mr. McArthur, to one of the editors of Farm and Dairy, who visited his farm, " if I have seen a good pure bred animal that has suited me if I found that I could afford it I have bought it. When buy-ing animal I make sure first that.

nas suited me if I round that I could afford it I have bought it. When buying animals I make sure first that they are good milk producers after which I endeavor to secure all the quality and trueness to type possible.\(^1\)

Two years ago Mr. McArthur purchased an imported bull through Mr. Ness. Last fall he exhibited at the Toronto and Ottawa exhibitions for the first time. At Toronto his two-year-old bull won first prize and nearly beat Mr. Ness' noted aged bull for the best bull of the year. He won fifth prize on a spring bull call from the old bull. At Ottawa he does not be a spring bull call from the old bull. At Ottawa he does not be a spring bull call from the should all shown at Toronto and seen of on a Canadian bred cow. Mr. McArthur is a director of the Canadian Ayrshire Breeders' Asso-ciation. With the start he has now got it should be only a few years be-fore he will be in the forefront of Canada's leading Ayrshire breeders.

Cobourg Horse Show

Cobourg Horse Show

The attendance and interest at the Cobourg Horse Show last week were phenomenal. That it was a great show was the unanimous verdict. Fair weather and a record entry list contributed much to the success as yet the state of the state

The agricultural and draught classes The agricultural and draught classes were excellent. The hackney class brought together as good an exhibition as was ever seen in America. No less than seven of what are probably the best hackney stallions in America were at the Show. Five hunteams, pacers, unicorns, and carriage pairs were numerous. The difficulty was that each afternoon was too crowded with interesting events and co., Ont.

it would seem that a five day's show would be necessary another year instead of four as has been. The judges were: J. J. Dixon, Toronto; Dr. J. H. Reed, V.S., Guelph; Col. Lessard, Ottawa; Dr. C. J. Allway, Montrea; J. M. Gardhouse, Weston; Dr. Routledge, Lambeth; Major Quinn, Brampton. Special features of the show were the presence of the Royal Canadian Dragoons and the 48th Highlander's Band, the Dragoons giving their celebrated musical ride. Evening concertagiven by the Highlander's Band were very popular, Donegon Park where the fair was held, being illuminated for this.

THE AWARDS it would seem that a five day's show

Some of the awards were as follows: Draught or agricultural classes, brood mare with foal, 1, John Brenton, Bethel Grove; 2 and 3, Henry

McLaren, Cobourg.

J. B. McColl's special for best foal

J. B. McColl's special for best foal

McLaren, Cobourg.

J. B. McColl's special for best foal of 1909, sired by registered Clydesdale, Shire or Percheron stallion, open to West Northumberland, 1 and 4, Henry McLaren; 2, John Brenton; 3, W. R. Morton, Port Hope.
Sam Clark's special for best mare for breeding purposes, sired by Clydesdale, Shire or Percheron stallion, open to West Northumberland and South Monaghan, 1 and 2, D. H. Taylor, Centreton; 3, John Brenton; 4, Jas. Foster.

Foster.

Open combination class for best anddle and harness horse: 1, Hon. J. R. Stratton; 2, Mrs. W. H. Shoenberger; 3, Miss K. L. Wilke, Harness pairs, 16.2 and unkerness, 16.2 and unkerness, 2, Growe & Murray; 3, Percy Clarke, Cobourg. The Covert Cup given by Robert F. Massie for the best roadster foaled in the united counties of Northumberland and Durbam was won by W. L. Thompson, Port Hope. There were 16 entries and the competition was keen.

keen.
The Henderson cup, presented ly the ladies of Louisville, Ky., in honor of Miss Henderson, who was instrumental in organizing Cobourg's first summer Horse Show, was won by Mrs. Dorland Smith.

Mrs. Dorland Smith.

The Counties Council prize for best team in Durham was awarded as follows: 1, C. J. Lewis, Charlecete: 2, Leonard N. Smith, Millbrook; 3, Wn. Hassard, Port Hope.

Best farm team in Northumberland west: 1, D. H. Taylor, Centreton; 2, James Foster, Wicklow; 3, Henry McLaren, Cobourg.

The special given by the Adams

McLaren, Cobourg.

The special given by the Adams
Waggon Company, Brantford, of a
farm waggon for the best agricultural
team went to D. H. Taylor, Centreton, who also won first on draught pairs in harness.

Items of Interest

The Fairs and Exhibitions Depart-The Fairs and Exhibitions Department have arranged for meetings of the directors of the Vegetable Groeces' Association on Sept 7th, in the Departmental tent on the grounds of the Industrial Exhibition, Toronto. The officers and directors of the Pairs and Exhibitions Association will also meet on Sept. 8th in the same place, and the Horticultural officers and the Horticultural officers and the Horticultural officers. directors in the same place on Sept.

disease suspiciously like cholera has been discovered among the hogs nas been discovered among the nog-around Ottawa. Forty-three animal-have been destroyed by order of Dr. Rutherford, Chief Dominion Veteria-arian and five other herds are under quarantine. Dr. Rutherford attribute the outbreak to the practice of feeding hogs about Ottawa on garbage callthe outbreak to the practice of feeding hogs about Ottawa on garbage, gathered in the city, and thinks the disease may have originated from Ottawa hogs being fed scraps of American pork.

"I am very much pleased with Farm and Dairy. It is improving all the time."—Chas. W. Ross, Renfer

Issued Each Wee

Vol. XXVI

Good profits ar

OUND adv a new t tion whe menced to fati small scale. I and 33 barred in all 52 birds. The account she is as follows: 52 birds weighi Cost of meal Grit, 40 lbs. ((35e.)

After feeding

weighed 392 lbs dressed they we:

cents a lb., real fit of \$16.60, les

The next year lb. for my fatt that price each tened chickens a received prizes the prizes being fattened in a pe a week; it made and fastened the sible to keep th trough, so the n



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

Each Week



FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII

FOR WEEK ENDING AUGUST 26, 1909

No. 34-

CRATE FATTENING POULTRY—SOME FACTS ABOUT THE BUSINESS

D. Burch, Mgr. Valley View Poultry and Fruit Farm, Norfolk Co., Ont.

Good profits are made from crate fattened chickens. Much poultry is being sold at a loss because i is not fattened. Specific instruction on how to make the business a success

S OUND advice is that counsel "go slow with tion where poultry is concerned. I commenced to fatten chickens four years ago on a small scale. I bought 19 well bred barred rocks and 33 barred rock and white wyandotte crosses; in all 52 birds. They weighed 260 pounds alive. The account showing cost of fattening these birds is as follows:

52 birds weighing 260 lbs., at 6c. a lb.\$15.60 Cost of meal ration 4.65 Milk 1.28 Grit, 40 lbs. (40c.), tallow 7 lbs. at 5c., (35c.)

Total cost After feeding for four weeks, the chickens weighed 392 lbs. when starved 24 hours. When dressed they weighed 324 lbs., and were sold at 12 cents a lb., realizing \$38.88, which left a net pro-

fit of \$16.60, less my work. PENS VS. CRATES.

The next year, I received a better price per lb. for my fattened poultry and have increased that price each year since. I exhibited 48 fattened chickens at our Christmas market fair and received prizes on 46 out of 48 shown, none of the prizes being lower than 3rd. This lot was fattened in a pen. I cleaned the pen three times a week; it made too much work. I made troughs and fastened them to the wall, but it was impossible to keep the chicks from getting into the trough, so the next year I made crates the same

as recommended by Government experiment etations. They have been used ever since. I made crates for 500 chicks. A crate for 16 birds cost about \$1.00. They have given such good satisfaction that I would not undertake to fatten chickens in a pen again if the crates cost four times as much. One decided advantage in using crates is that you can sort the birds so as not to have small chickens and large ones together. This cannot very well be done when pen fattening is practised. In the crates the small chickens get the same chance as the larger ones.

WHITE FLESH IN DEMAND

I fatten about 1500 birds each year. It costs about 11 cents a bird for chop,-taking the average for the last three years. In 1906 the average cost of feed was \$1.10 a cwt. Chop averaged \$1.46 a cwt. in 1907 and \$1.39 in 1908. I have used a great many different kinds of mixture. I consider that good oat chop, with the large hulls removed, should be used in all mixtures, since it tends to make the flesh white and tender. The English market demands a white fleshed chicken, and our own people are beginning to learn that a white fleshed chicken, as a rule, is only produced by special fattening. The ration that I like best is two parts of oat chop, one part corn, one part barley, one part low grade flour, one part buckwheat, all ground very fine and mixed with sour or thick milk or whey to a consistency such as will pour out of a pail. I like chickens to weigh three and a half to four pounds when they are put in the crates. They have given me better net profit than larger ones or even smaller

THE SECRET OF SUCCESS.

For the first week the chickens should get just what they will eat up quickly three times a day. The proper amount is that which leaves them so that they would eat a little more. If the feed is not all eaten up in about five minutes, I take it away and turn the trough upside down so that they will not have anything to pick at. The whole secret of successful crate fattening is not over feeding during the first week. By overfeeding them on the start they are liable to get indigestion.

Do not undertake to fatten any chicken unless it is up to the mark. Chickens for fattening should be of blocky type. As an example to follow, model after a show bird of any of the utility breeds and you will not go very far astray. Never undertake to fatten any birds of the breeds known as the "active breeds." There is no profit in fattening them. They will make nice plump chickens, but they do not put on enough extra flesh to pay for the trouble.

OTHER ATTENTIONS.

My fattening birds are fed grit twice a week. When the weather is cool I do not give them any water, as the feed contains all the drink they need. Before the birds are put in the crates they should be given a good dusting with sulphur to kill the lice. They will not do well if they are lousy. I feed the chickens from three to four weeks. If they have been properly fed and have done as well as they should, they are ready to kill in three weeks. There are always a few in each lot, however, that will take four weeks. I dress aif our chickens by bleeding them in the mouth. A ring of feathers is left at the head, and at the leg joint. The tip of the wing is also





Two Cemeteries in Prince Edward County, Ont., only a few miles apart, which tell their own tale

Why is it that many of the most progressive and prosperous farming centers in Canada allow cemeteries to be neglected in the shameful manner that many of are? The cemetery that is shown on the left, in the above illustration, is located at West Lake, in Prince Edward Co., and is a credit to any vicinity. The ceme is an o'd one, it having been used for its present prince over 40 years. Each year a small sum of money is collected in the people of the commun west travelled roads in the county. When the photograph was taken by the Edit. The general party numerous grave stones were noted that on one of the photograph was taken by the Edit. The photograph was the proper that the photograph was taken by the Edit. The photograph was the proper that the photograph was the proper that the photograph was the photograph was taken by the Edit. The photograph was the photograph was taken by the photograph was taken by the photograph was the photograph was taken by the photograph was taken by the photograph was taken by the photograph was

left. The birds are starved for 24 to 36 hours before killing and are put on the market undrawn.

To the amateur my counsel would be: Start with good blocky birds; don't overfeed during the first week, especially, or at any time; feed regularly: keep the chicks quies, do not allow dogs to come in sight of them; make the feed palatable by using a little salt. For the first week the birds will gain very little. They will make the largest gain during the second week. When the birds are fed, their crops should be full and if when you go to feed them again, their crops are nearly empty, your birds cannot help but be doing well.

FIRST CLASS PRODUCT IN DEMAND.

It should not be thought for a minute that there is a possibility of overdoing the business of fattening chickens. One of the main causes of the low prices for poultry during the past two seasons has been the very poor condition of the birds marketed. People get disgusted with skinny poultry and they buy other meats, whereas if the poultry was well fattened, it would create a better appetite for poultry and this would mean increased consumption. There is very little danger of over production of the first class product; ir fact there is very little No. 1 poultry to be seen on the markets. The demand is almost onlimited for crate fattened chickens. The universal opinion of those that I have supplied with crate fattened chickens is "I never knew what a good chicken was before." If you don't fatten your poultry as I have outlined, make them as good as you can in the ordinary way. You would not think of trying to sell your hogs when half fattened if they are intended for killing. The same principle applies to poultry and the loss by selling unfinished poultry is much greater.

After Harvest Cultivation

L. C. Cameron, Halton Co., Ont.

Fields that are to be fall plowed, should be turned over lightly as soon after harvest as nossible. Where advanced methods of farming are practised there will not be much to plow save sod. After plowing, such cultivation as is necessary to put the soil in good tilth should we given. This will cause rapid decomposition of the stubble and other vegetable matter.

Three weeks after plowing bring the broadshared cultivator into use. This will cut all weeds and leave them near the surface. Then by means of the harrows bring the roots on top where they will be killed by the sun. Cultivating twice with the broad shares and fallowing with the harrows is a very effective way of destroying weeds.

Late in the fall the land should be ribbed up in shallow ridges. This will allow the frost to penetrate readily into the soil. The many furrows will carry off the water in the spring with little wash, owing to the amount of water being small that passes down each furrow. Land handled in this manner will be in fine condition in the spring. It will work down readily with the spring-toothed cultivator into a fine seed bed.

Municipal Forests in Canada

The agitation that has been conducted by Farm and Dairy in seeking to arouse greater interest in the matters of reforesting the waste lands of Ontario, is having effect. A bulletin prepared by the Canadian Forestry Association, under the direction of Mr. R. H. Campbell, Supt. of Forestry at Ottawa, has just been issued to newspapers throughout the Dominion drawing attention to the convention recently held at Cobourg, where at the instigation of Farm and Dairy, a number of forestry experts and others met to discuss the feasibility of reforesting the waste sand lands of Durham and Northumberland counties.

The bulletin deals with matters discussed at the convention and is as follows:

Shall municipal ownership be extended to forests? This question, it is hoped, will shortly be answered affirmatively in Ontario, and perhaps in other provinces of the Dominion. The que tion was discussed lately at a meeting in Cobourg of representative men of the Counties of Durham and Northumberland, which are united for municipal purposes. In these counties, along the ridge, which forms the watershed between the streams flowing into Lake Ontario, and those adjoining the Trent River, is a large tract of sand land, some 15,000 acres in extent. Originally this land was heavily timbered with a fine crop of pine. After this was cut off the land was for some years farmed with fair success. The fertility of the soil, however, has steadily diminished, and now few farmers are left on the ridge. Buildings and fences are going to ruin and areas of "blow" sand have developed which in some cases are drifting on, and covering up good land. Not only is this the case, but the streams throughout the district have been affected, with the usual result, that instead of flowing steadily throughout the year, they are torrents in springtime, while in summer and autumn their beds are almost dry. CAPABLE OF PRODUCING TIMBER.

The land is capable of producing fine timber. Abundant evidence of this is seen in the large stumps still existing in many places, and in the fine young timber that is springing up. Already one plantation made on sand land in Durham county some four years ago, is growing well and therfuly.

and can, it is thought, be bought at an average price of five dollars an acre. If the land is bought at this price and planted with white pine, at a cost, for plants and planting, of \$10.60 an acre, the cost per acre of the planted area would, at the end of sixty years, amount to about \$165. This includes a liberal allowance for expense of management and protection, and for taxes at the rate of 17 mills on the dollar. (Money is assumed to be worth three and a half per cent. per annum.)

The pine timber standing on the acre of ground would be worth, even at prices now prevailing, \$600. In other words, not only would the investment repay the interest at the rate of 3½ per cent. per annum, but in addition would yield an amount equivalent to a yearly payment throughout the 60 years of about two and a quarter dollars. Thus the yearly revenue would amount to almost half the amount paid, in the first instance, for the land.

THE CONVENTION.

At the meeting referred to, addresses were given by Messrs. Thos. Southworth and Jas. Lawler, president and secretary, respectively, of the Canadian Forestry Association, Dr. B. E. Fernow, Dean of the Faculty of Forestry, of the University of Toronto, and others. Figures given by the last-named speaker with regard to similar planting in Germany and France aroused much interest. Resolutions were passed by the meeting favoring the reforestation of the lands in question, the co-operation of the provincial government to be secured, if possible. The matter will be further discussed at a series of meetings to be held during the autumn, to conclude with a meeting of representatives of the counties in December.

Other parts of Ontario present much the same problem as the district referred to and similar action could with advantage be taken in them. In other parts of Canada, too, there are good chances for municipal forests. The city of Prince Albert, Sask., for instance, has a splendid opportunity for the creation of such a forest reserve in the sandy jack pine lands lying to the north of the Saskatchewan. The state legislature of Pennsylvania, it may be noted, at its last session passed an act permitting the municipali-

ties of the state to acquire forest lands for the purpose of establishing municipal forest reserves.

To Encourage Earth Road Improvement D. James, York Co., Ont.

Much is being written in our daily papers just now in reference to good roads; not too much of course, for good roads are quite necessary. The Provincial Government and the County Councils both appear to need more light on the subject in order to make the proper financial adjudication so as to cause more of the good work to be performed. Or, it may be a matter of education of some sort that is required. While the matter of good leading roads is important to farmers and merchants, it also appears to be all important to that increasing class, the automobilist. If people of wealth in our towns and cities use our leading roads, not so much on matters of business, but of pleasure, to the great injury of the roads and also to the hindrance of farmers and their families who have contributed so largely in building and maintaining the roads, there should be some way of equalizing the matter and of making the roads accessible and sate tor all classes who may wish to use them.

Having recently visited a section in Lincoln Co., and knowing of the good work done by Mr. W. B. Rittenhouse, I suggest the following way of equalizing the financial part of a good roads scheme, especially from a farmers' standpoint. It refers to the split-log drag road, which has proren so successful in Lincoln and in some other counties.

FUNDS EOR A COMPETITION.

Let the Provincial Government set aside \$20,-000 or \$30,000 annually for a term of six years for the encouragement, by means of competitions, of the use of the split-log drag. Limit the number of municipalities to be assisted from three to five in each county according to the size of the county; the municipalities in a county first making application to have the preference. No municipality should be assisted that did not have at least 15 or 20 competitors. The length of road for each competitor should not be less than one quarter of a mile; the municipality should exempt each competitor from statute labor cr payment of commutation tax during the term of three years in which he shall use the drag upon the portion of the road; the municipality to maintain an inspector or instructor, or both, during said term; the municipality to offer prizes for the best pieces of roads, taking into consideration the length of road, the condition before commencing, and at the end of each year during the three years term; the Government grant to be depended upon by each municipality for at least three years and of course supplemented to some extent by township or private subscription.

These portions of roads, kept as they should be, would be an object lesson to all who would visit them, from the different parts of the township, or county, as the case might be. No doubt, many, later, would enter into the scheme, which would bring not only good returns financially, so far as saving of cost of hauling is concerned, but would increase the value of lands adjoining or contiguous to those roads. From the aesthetic standpoint, and this is not the least pleasing feature of the scheme, a well kept wayside speaks well for the people of a community, besides being a pleasure for the travelling public.

a pieasure for the travelling public.

I hope, Mr. Editor, you will see your way clear
to urge upon municipalities and upon the Provincial Government the value of educating, initiating and assisting our people in improving and
beautifying our true farm roads, not necessarily
upon the aforementioned plan, but possibly on a
better one, this communication merely calling altention to the need and to some extent a fessible
way of assisting the farmers of the whole Privince.

T. R. Preparation made many v arated from do in the wa the foal. Thi is undertaken is begun the this preparate grain. This c the dam in a floor where the fellow will see ing her examp it has got a t share every ti

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SEPARATING DAL
FOAL

When well h broken and ta to eat grain, w ing can be without checking growth apprecia One of the methods, when venient, is to p the dam and foa adjoining box st with a small or they get their no together. Discon ue the grain rat of the dam. F her only dry hay ingly, in order t For the first for the foal to suck four days, twice be often enough foal suck once a then do not allow If two stalls are I which adjoin, but tween them throu may get their no To tie the foal

To the the foal placed on each si placed on each si placed on each si tiestrap should ge these rings should will not be any diether rope when i either rope when i either rope when i out feed box, water out feed box, water out of and be rem should be given in should be given in floor, the box also eaten.

The grain ration ed should consist of ably the former, two bran. Begin with a until the foal is eatithe grain ration. Fo of oats and two of withree feeds will be the grain ration.

Weaning the Foal

T. R. James, Middlesex Co., Ont.

Preparations for weaning the "colt" should be made many weeks before it is to be actually separated from its dam. One of the first things to do in the way of preparation is to halter break the foal. This is not a difficult thing to do if it is undertaken early in its life, and the earlier it is begun the easier it will be. Another thing in this preparatory course is to teach the foal to eat grain. This can best be done by feeding grain to the dam in a shallow box placed on the ground or floor where the foal can easily reach it. The little fellow will see its dam eat the grain and following her example will begin to nibble at it. Once it has got a taste, it will be on hand to get its share every time the dam is fed.

The best age to wean is five months, but if one has plenty of cow's milk, and it is desired to wean the youngster sooner, it may be weaned at four

months or even earlier. In case the foal ie weaned early and milk is fed it should be diluted with water and sweetened with a little sugar. SEPARATING DAM AND

FOAL

When well halter broken and taught to eat grain, weaning can be done without checking its growth appreciably. One of the best methods, when convenient, is to place the dam and foal in adjoining box stalls with a small opening through which they get their noses together. Discontinue the grain ration of the dam. Feed

her only dry hay and water her often but sparingly, in order to prevent the secretion of milk. For the first four days after separating, allow the foal to suck three times a day. For the next four days, twice a day, morning and night, will be often enough to let it suck. After this let the foal suck once a day for two or three days and then do not allow it to go near the dam again. If two stalls are not available, use two open stalls which adjoin, but see that an opening is made between them through which the dam and the foal may get their noses together.

To tie the foal a good stout ring should be placed on each side of the stall and a rope or tie-strap should go from each to the foal's halter. These rings should be high enough so that there will not be any danger of the foal stepping over either rope when the head is lowered to the floor. A large, light and well-ventilated box stall without feed box, water pail or manger is the safest place for a foal during weaning. The youngster can be led out to water at frequent intervals or a bucket can be placed in his stall for him to drink out of and be removed when he is finished. Feed should be given in a shallow box placed on the floor, the box also being removed when he has

THE GRAIN RATION

The grain ration for the foal when being weaned should consist of ground or whole oats, preferably the former, two parts to one part of wheat bran. Begin with a light ration and increase daily until the foal is eating from three to six quarts of the grain ration. For a good-sized foal four quarts of oats and two of wheat bran, daily, divided into three feeds will be none too much.

Feed the foal well cured hay, the best and earliest cut hay available. Feed only as much as it will eat with a relish, but feed often. If there is plenty of cow's milk to be obtained teach it to drink sweet skimmed milk. Most foals easily learn to drink milk but some refuse. To such begin by wetting oat-meal with milk, making the mixture thinner each time until soon the colt will be drinking clear milk. A lump of rock salt or a salt brick should be placed in the stall where the foal can help itself whenever he wants to. Exercise is absolutely necessary in order to insure the foal's well-being. As soon as weaned, the youngster should be given a paddock or pasture to run in when the weather is good so that his limbs may be developed in proportion to his body. Keep the feed box and the stall clean. Look after the feet and by the use of a rasp keep them from growing irregularly or getting too long



Barley Harvest at "Dunain" Farm, the Barns in the Background

Leaders in agriculture have long taught, that were the information available, production would be papied to farm practice, production would be monothly increased. Business many particles of the production would be the production of the production

Some Features of a Well Kept Competing Farm

In these days when dirty farms are common, it is a pleasure to find one that is practically free from noxious weeds. Such a farm is that of ..r. W. C. Shearer, of Bright, Ont., who is well known throughout the Province of Ontario as a successful farmer and Farmers' Institute speaker. This farm is located on lot 2, concession 11, Township of Blandford in the County of Oxford, and is entered in Farm and Dairy's Prize Farms Competition. It consists of 951/2 acres, the balance of the lot being sold to the G.T.R. Co. The land has sufficient roll to readily carry off surface water. The soil is a good clay loam.

HEDGES AND TREES.

The visitor cannot fail to be impressed with the fine hedges along the road and lane leading to the house. Beside the public road soft maples have been planted. The same kind of trees adorn each side of the lane leading to the house. In the lane these trees meet overhead. They have been trimmed out so that to one standing at one end and looking to the other the lane looks not unlike a tunnel. It reminds one of the world-famed drive between Paris and Versailles in France,

This farm has been conducted as a dairy farm for many years. Mr. Shearer's father made cheese on his own farm before the establishment of a co-operative cheese factory in this section. Mr. Shearer's barns are large and commodious. Water is installed in front of the stock, being pumped by a windmill from a well into a tank, then regulated by a float valve as it passes into the basins. Cement floors, and a ventilator leading through the roof are a part of the stable.

SILAGE FOR SUMMER FREDING.

There are two silos on the place. One is used for storing silage for the summer. A litter carrier is in use in the stable. A rack lifter in the barn hoists the grain and hay nearly to the roof and reduces the labor of unloading materially. Ample storage room is available for implements. These are all kept safely under cover. Ice in abundance is on hand for cooling the milk which is sent to the Bright Cheese factory. The cows kept are for the most part Holsteins, a number of them being registered and are very fine individuals.

The farm dwelling is a comfortable one. It is built of concrete. A neat well kept lawn adorns its front. Mr. Shearer's place was noteworthy for being free from noxious weeds, for its neat fences and gates, and, for the absence of sticks, stones or other rubbish lying around the buildings, lanes or fields.

RURAL MAIL DELIVERY

Mr. Shearer is fortunate in living on a route where Rural Mail Delivery is enjoyed. He gives Farm and Dairy much credit for bringing this about through its special series of articles bearing on this question. As he sits on his verandah he can see the mail carrier deposit his mail in the box, and in another minute he is enjoying his daily paper. Mr. Shearer also has a telephone, which keeps him in touch with his neighbors and with the business places in that section of the country.

A five year crop rotation is followed on Mr. Shearer's farm, land being one year in hay, one year in pasture, one year in grain, one year in corn or roots and one year in grain that is seeded with clover. Mr. Shearer has been successful in growing the finest crop that the Ontario farm produces. He has seven bright, healthy boys, the oldest fifteen, who are an honor to their parents .- H.G.

Corn promises to be an abundant crop. It is now being grown extensively. Silos are not to be seen in the same proportion to the fields of corn. Could there be a better investment and a better ine to erect a silo than after harvest of the present year? Cement silos are favorites with many. They are permanent and indestructible buildings. Cement can now be purchased for about 40 per cent. less than it could a year ago. In view of the movement on the part of a number of cement manufacturing companies to form a merger, cement is not likely to be so cheap another season. Where gravel and small stone can be obtained convenient, the present would seem a favorable time to build.—H. Johnson, Middlesex Co., Ont.

It is always good practise to let the calf have the milk of its dam. If this is not possible it should be fed on the milk of the same cow for a few weeks till its digestive system becomes strong enough to digest less carefully prepared food. The food of the cows from which the milk is taken should also be carefully looked after. Musty or heated hay, rotten roots, the drinking from stagnant pools or from any other source of impure water should be avoided, as milk produced from such sources is quite unfit for feeding to young and delicate animals.-Dr. H. G. Reed, V.S., Halton Co., Ont.

Our alfalfa seeding of last year sown with one bushel of barley per acre is making a showing that does the heart good. We have 12 acres now and are clearing 15 more this year. We intend to have lots of it on the policy that it's not possible to have too much of a good thing .- R. E. Gunn, Manager Dunrobin Stock Farm, Ontario Co.,

If you have any difficulties in the care of your orchard or garden send enquires to the horticultural editor of Farm and Dairy.

Seed Wheats of Merit

We offer the following varieties of Fall Wheat, all of which have given satisfactory results after careful trials. All successful farmers realize the imperature of a change of seed, also the necessity of growing the newest and the second of the second property of the second

we also our crotsven grants be the second of the second of

JOHN A. BRUCE & CO.

Seed Merchants

HAMILTON, ONT.

Twice as Good An Investment

When we say that the "Bissell" Disc Harrow is twice as good an investment, we mean just that.

The "Bissell" cuts cleaner and turns the soil over better, and all the time runs so easy that the work is done in half the time it takes with others. You can prove it by a comparison test.

The "Bissell"

is easiest on the horses' necks. It is so perfectly adjusted that it is not necessary to carry the pole on the whiffletrees to lift the weight off the neck yoke. The "Bissell" Disc Harrow the weight off the neck yoke. does not drag all the strength out of the



Surely, the harrow that does better work in half the time and is easiest on the horses is "twice as good an investment "-and that Booklet on request. Write Dept. R., or ask your local

T. E. BISSELL COMPANY, Ltd., ELORA, ONT.

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AUG. 27 From all stations in Ontario, Toronto and east, and east of

SEPT. 7 From all stations in Ontario, Toronto-North Bay line and West. From all stations West of Renfrew.

SEPT. 10 From Stations, Toronto, Renfrew and East, and east of Orillia. See nearest Grand Trunk Agent for tickets and particulars regarding Transportation arrangements west of Winnipeg.

CANADIAN NATIONAL EXHIBITION - TORONTO **Very Low Rates From All Points**

AUGUST 28th TO SEPTEMBER 11th

Full information from Grand Trunk Agents.

Ontario's Milk Commission

ptario's milk commission, compris-Dr. R. A. Pyne (chairman), W. Vincaton, C. J. R. Daring, Dr. R. A. Pyne V. F. Nickle, Kingston, C. J. R. Dargavel, Leeds; F. G. Macdiarmid, West Elgin and W. Bert Roadhouse, (sec.) have returned last night from z tour of New York State which was understand in the interests of a pure milk taken in the interests of a pure milk supply. The commission gained much valuable information which will be submitted to the government in the

submitted to the government in the form of a report.

At Rochester the commission saw Dr. George W. Goler, medical health officer, whose work of inaugurating milk depots for babies has attracted milk depots for dames has aresulted a wide attention, and has resulted in the decrease of infant mortality, by nearly 50 per cent. Dr. Goler's by nearly 50 per cent. Dr. Goler's plant was visited and the commissioners were also entertained at luncheon by Mr. Miner, president of the chambof commerce.
Dr. Tolman, medical health officer

at Syracuse, received the Ontario investigators, with marked courtesy as did Mr. Fredericks, acting commisdid Mr. Fredericks, acting commis-sioner of public safety. There they visited the Cully farm, a widely known model institution producing certified milk. Next Cornell Univer-sity was visited. The dairy depart-ment of the state is located theo; and Dr. C. A. Publow, an Ontario below of the college of the control of the control of the college of the college Pyre and his college of the college.

Proceeding to New York City, Dr.
Pyne and his colleagues interviewed
Dr. Darlington, health commissioner,
and Dr. Park, chief bacteriologist.
Through the courtesy of Dr. Darlington and impectors, a visit was made to the leading dairies and stores in which milk is retailed, as well as to the Strauss plant, a pullanthropy established by Nathan Strauss, where the pasteurization method is seen in its perfection. Dr. J. R. Greene and W. Wirt Mills explained the system to the commissioners.

On the return trip the commissioniers stopped off at Albany, and called on the state department of agriculture. ture. Friday, Aug. 20th, was spent in Hamilton, where a number of milk Hamilton, where a number of milk depots were inspected. These were established by Dr. James Roberts, M.H.O., after the model seen at Rechester. It is expected that the commission has gone on to Chicago, where pasteurization has been adopted as a municipal reculation. nunicipal regulation

Co-operative Experiments with **Autumn Sown Crops**

Four hundred and ten farmers throughout Ontario conducted experiments with autumn sown crops during the past year. Reports have been re-ceived from 36 of the counties of the Province. Those counties which furnished the greatest number of good reports of successfully conducted experi-ments were Middlesex, Huron, Brant. Norfolk and Muskoka. Average results of the carefully conducted cooperative experiments with autumn wn crops are here presented: Winter Wheat.—Four varieties

Winter winter wheat were distributed last autumn to those farmers who wished

attumn to those farmers who wished to test some of the leading varieties on their own farms. The average yield per acre of straw and of grain are as follows: Imperial Amber, 1.4 tons, 24.1 bus,; Abundance, 1.3 tons, 23.9 bus.; Bulgarian, 1.2 tons, 21.9 bas.; and Nigger, 1.4 tons, 21.9 bus. The Imperial Amber gave the greatest yield per acre in the co-operative experiments throughout Ontario in 1907 and 1908, as well as in 1900. It also came first in popularity with the experimenters in each of these years. The Imperial Amber will again be distributed throughout Ontario this autumn as one of the varieties in the control of the second of the varieties. tario this autumn as one of the varieties for co-operative experiments.
We distributed the Dawson's Golden Chaff for a co-operative experiment throughout Ontario in each of 12 years, but not within the three years. According

extensive enquiries which we have made this year, the Dawson's Golden Chaff is still the most popular and the most extensively g variety of winter wheat in the Prov-

Winter Rye .- The average yield of grain per acre of each of three varieties of winter rye, distributed in the autumn of 1908, is as follows:
Mammoth White, 28.1; Common, 22.1; and Washington, 19.6. In the 22.1; and Washington, 19.6. In the experiments throughout Ontario, the Mammoth White surpassed the Common rye by an average of 5 bushels an acre in 1907, 5.4 bushels an acre in 1908, and 6 bushels an acre in 1908. And 6 bushels an acre in 1908. Tertilizers with Winter Wheat.—In the co-moretive of the commenting of the comment of the commenting of the comment of

In loos, and o business an acre in 1202.

Fertilizers with Winter Wheat—In the co-operative experiments with different fertilizers applied to winter wheat, the average yields of grain per acre for five years are as follows:

Mixed Fertilizer, 25.2 bus; Nitrate of Soda, 23.8 bus; Murited of Potash, 22.9 bus; and Superphosphate, 22.7 bus.; and Superphosphate and paverage of 19.9 bus, an acre. The Superphosphate was applied at the rate of 320 pounds and the Muriate of Potash and the Nitrate of Soda each 100 pounds an acre. The Mixed Fertilizer consisted of one-third of the quantity of each of the other three fertilizers here mentioned. The usu-fertilizers consisted of one-of-the control of the previous production of the control of the fertilizers here mentioned. The usual cost of the fertilizers as used in this experiment is between four and five dollars an acre.

Fodder Crops.—In each of six years, the seed of Hairy Vetches and Winter Rye has been distributed throughout Ontario for co-operative experiments in testing these crops for fodder purposes. In the average of six years experiments, the Hairy Vetches produced slightly the largest yield of green fodder an acre, but in 1909 the largest yield was produced by the Winter Rye.

DISTRIBUTION OF MATERIAL

As long as the supply lasts, material will be distributed free of charge in the order in which the applications are received from Ontario farmers wishing to experiment and to report the results of any one of the followthe results of any one of the follou-ing tests: 1, three varieties of Winter Wheat: 2, two varieties of Winter Wheat: 4, Autumn and Spring Ap-plications of Nitrate of Soda and Common Salt with Winter Wheat: 5, Winter Emmer and Winter Barley; 6 Hairy Vetches and Winter Barley; 6 6, Hairy Vetches and Winter Barley; 6, Hairy Vetches and Winter Rye as Fodder Crops. The size of each plot is to be one rod wide by two rods long. Material for numbers 3 and 4 long. Material for numbers 3 and will be sent by express and that for the others by mail.

C. A. Zavitz, O.A.C., Guelph, Ont.

Poultrymen at Guelph

The members of the International Association of Instructors and Investigators of Poultry Husbandry met at Guelph, Friday and Saturday, August 13th and 14th, for their second August 13th and 14th, for their second annual meeting. There were present less than 40 persons but it is a ques-tion if there has been in the Prov-ince such a gathering of representative men connected with the poultry business on the continent. Those presousiness of the continent. Those present constituted the heads of all the poultry departments of the agricultural colleges all through Canada and the United States, men who have spent years studying the question and (Continued on page 9)



neesees FARM Kessee

August

Commen We have I tion on a 1 Rotation is

The corn fall for oat pastured. tured, manu spring. Lan before plowi rather foul, the pasture

Wheat

the pasture,

With the scarcely any we are plow of grain, 12 for meadow. shallow after fall when it Manure is mance for madvisability aim is to get by buying le Co., Ont. I consider

very much a which it is p of the opinion ency of the l weedines vation or w ather than believe the only make r As a reme ably improve

thods. Supp the rotation derstand thi 1st year, o down.)

3rd year, 4th year, or August, s
5th year, (manured.) 6th year, c Then I won

treatment.: 1st year, c during winte with disc, et with cultivat shallow furro

deep, 2nd year. Sow Sow 2 barley an acr and rich a so may do. 3rd year.

ter starting to 4th year. F inches, roll or cut sod up th again if sod o at frequent in three days til rots. Manure about 10 days disc harrow. for spring who

5th year. I nothing to do tharrow or bet when wheat g weeds start to then break doy tor and sow witer wheat harvow (3 inches). row (3 inches), and plow deep October 20th.— culturist, C. I

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

FARM MANAGEMENT Receseseseseseseseses

Comment on Five Year Rotation We have been following a five year rota-tion on a 100 acre farm for several years. Rotation is thus

Pasture Meadow Oats Corn

The corn stubble was plowed under in fall created where second crop clover was pastured. Insured in winter and and partired, manured in winter and an exprine. Land for wheat was also manured at the country of the cou

With the five year rotation we had scarcely any permanent pasture. Now we are plowing on 30 acres, and 36 acres where the second of the second

I consider the rotation now in use very much superior to the system to which it is proposed to change. I am of the opinion that the apparent tendency of the land to increasing foulness or weediness is due to faulty cultior weedliess is due to fainty culti-vation or wrong system of working, rather than to the rotation in use. I believe the change proposed would only make matters worse.

As a remedy or as a plan to probably improve matters I would suggest the following changes in cultural methods. Supposing the following to be the rotation, which is the way I understand things:

1st year, corn, manured. 2nd year, oats and barley (seeded down.)

3rd year, clover hay.
4th year, pasture, plowed in July
or August, sown to wheat.
5th year, wheat (spring or fall),
(manured.)

6th year, corn again, etc. Then I would suggest the following treatment.:

1st year, corn. Fall plow, manure during winter and spring, work in with disc, etc. After corn, rib up with cultivator or plow with very shallow furrow not over three inches

deep.

2nd year. Oats or barley. Seed
down. Sow 2½ bus. oats or 1½ bus.
barley an acre, and at same time 12

15. timothy, 6 lbs. red clover and 2
15s. alsike an acre. If land is strong
ad viale, a symewhat lighter seeding. rich a somewhat lighter seeding may do

3rd year. Clover hay-pasture af-

3rd year. Clover hay pasture ar-ter starting to plow.
4th year. Pasture. Plow late July or early August. Shallow furrow four inches, roll or disc harrow at one, cut sod up thoroughly with disc, roll again if sod does not lie well; work again if sod does not lie well; work at frequent intervals, werey two or three days till sod disintegrates or rots. Manure should be applied after about 10 days plowed. Work in with disc harrow. If for fall wheat sow about September 10th or 12th. If for spring wheat ridge land up with double-mold-board plow about October 20th.

year. Wheat. If fall wheat, othing to do unless possibly run light harrow or better, a weeder, across when wheat gets started, and when when wheat gets started, and when weeds start to grow. If spring wheat then break down ridges with eultivator and sow when in good tith. After wheat harvest plow, shallow furrow (3 inches), cultivate as intervals and plow deeper furrow (5 inches), cultivate as intervals and plow deeper furrow (5 inches) Cottober 20th.—J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

Reseaseseseseseseses Eastern Townships, Que., Notes

Eastern Townships, Que., Notes

The season is sufficiently advanced
to be able to determine the results of
the substantial of the province of

was small. Timothy was the chief crop. It was of fine quality and was well sared. Oats and barley have come on fine and promise an average crop of grain with short straw. Wheat which is sown in small areas has done well. Peas are not as widely grown as formerly but are a fair crop. Roots and water have suffected Istale with as formerly but are a fair crop. Roots and potatoes have suffered lately with the drought, as has corn also, especially on clay soils. The fine rain of the 16th August will put met vitality into these crops and refresh the nastures which had become very bare and brown. Those dairement when he was the contract of the Those dairymen brown. Those dairymen who were mindful to prepare land and put in a soiling crop have been well repaid in maintenance of milk flow. Those who did not put in a soiling crop have to put up with a reduced did not put in a soiling crop have to put up with a reduced milk flow and consequent smaller returns. We find vetches and oats and peas second to none for July and August feeding. These are followed with corn in Sep-

The milk flow has become reduced, therefore the make of butter and cheese is lessened. These products have maintained a steady price all season and are returning a good income to the dairymen. There is becoming a shortage of milk in Mon-treal and dealers are inquiring for new shipers. So far this season there has been an oversurplus in the city and frequently shippers had to city and frequently shippers had to The milk flow has become reduced. city and frequently shippers had convey a mess or two of milk to the cheesery or creamery.

'Tis now a foregone conclusion that Tis now a foregone conclusion that there will not be sufficient feed for wintering the present stock carried by our farmers. Realizing this, many are taking advantage of the high prices for beef and are already putting dry was and heifers on the market. Whese are selling at good prices but we expect lower prices 'green's high in price, in fact, the highest for many years. Choice the highest for many years. Choice prices but we expect lower prices 'ere long. Pork is high in price, in fact, the highest for many years. Choice hogs bringing 88.00 a cwt. at station. There has been a fair trade in heavy horses; more heavy mares have been bred this season than usual and a superior class of stallions have been and

Our stockmen are getting ready for Our stockmen are getting ready for the fall fairs, which are numerous, ev-ery county having its fair, besides those at the larger centres, such as Sherbrooke and St. Johns. As har-vesting will be later than usual, it may detract from the attendance. As those fairs, the best live stock in these fairs the best live stock in At these fairs the best live stock in the community is seen, expert judges usually place the awards and they are to-day of great educational value to our young farmers. We trust they our young farmers. We trust the will attend in large numbers. will attend

Three Satisfied Workers

The great satisfaction evinced by agents for Farm and Dairy is apparagents for Farm and Dairy is appar-ent in the many letters we receive each week. The popularity of our pig offer is more than gratifying. We have disposed of a large number of pigs this season to readers of Farm and Dairy, who have now a pure bred pig in return for a club of seven new sub-

Among the latest to acknowledge Among the latest to acknowledge receipt of their pigs are the followsing: Mr. J. T. Donnelly, of Elgin Co., Ont., who writes, I have received my pure bred pig sent me by H. W. Todd, of Corinth, Ont. The

KNOCKER

A SURE AND EFFECTIVE REMEDY AGAINST FLIES AND MOSQUITOES

Is easily and quickly applied with any person. GUARANTEED THE BIRST PRIFE HARATION ON THE MAKEN PROJECT AND ANY THE CONTROL OF THE ANY THE ANY THE CONTROL AND THE ANY Price, 50 Cents Quart.

Freight Prepaid WILLIAM COOPER & NEPHEWS

152 BAY STREET

TORONTO, ONT.



Life Is Not Worth Living

on the farm if you are not fitted up with good Storage Tanks. You can have all the luxury of city life for a very small outlay. Our Barn and General Storage Tanks are made of heavy galvanized steel of the best quality, imported from the Old Country to ensure getting the

Steel Trough & Machine Co., Limited

**

pig arrived safely, in good condition and is a dandy. Many thanks to Farm and Dairy."

Young Pig Management

A hog is half made when past the weaning period without a stunt or kink in its growth. Every check or halt in prosperity through its first two months is more expensive than at any later period. Too much rich feverish milk of the dam, causing thumps or other ailment, may leave harmful results, perhaps as much as scant feeding or other neglect of as scant feeding or other neglect of the sow. More injury may be done to a pig's growth in two or three days than can be repaired in a month done days than can be repaired in a month, even if she is made the subject of special care, which where many are raised is not the rule nor easily practicable. "Good luck" with pigs calls for attention, and that not occasional, but frequent and regular.

From the first week after farre until weaning time the sow will be little list than a milk machine, and to be a high-power machine in perfect operation she must have proper care. Nothing else is so well calculated to make pigs grow as a bountiful supply of wholesome sow's milk, and the pigs of wholesome sow's milk, and the pigs that have plenty of other feed with the milk of a well-slopped sow for eight weeks will ordinarily have much the start of those weaned at five or six weeks, no matter how much food and attention the earlier weaned him and attention the earlier weaned pigs

and attention the earlier weaned pigs may have had.

At eight or nine weeks old, most pigs are, or rather should be, fit to take away from the sow; some litters are individually older at sever weath than others at ten, and better fitted for weaning. Symatisms it is made than others at ten, and better fitted for weaning. Sometimes it is necessary to wean when the pigs are five or six weeks old, and in other cases it may be advisable to wait until the pigs are ten weeks or even older. Breeders who wean at early ages erally do so in order to more profitably raise two litters a year.—From Co-burn's "Swine in America."

Keep the pigs growing and making ame, remembering that too much frame, remembering that too much fat will check the growth of bone and

WINDMILL

Towers Girted every five feet apart and double braced Grain Grinders Pumps Tanks

Gas and Gasoline Engines Concrete Mixers

Write for Catalogues GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA

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THE UTILIZATION OF WOOD WASTE BY DISTILLATION

A general consideration of the NEW
INDUSTRY, including a full description of the distilling apparatus
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apparatus costs 570-00, distilling
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WOOD WASTE DISTILLERIES CO. 213 to 217 St. Clair Ave., Cleveland, Ohio

Mention Farm and Dairy when writing

Extract from Bulletin of Oregon Experiment Station.

The proper pruning of the blackberry is very simple as well as important. The amount of pruning required will be governed by the variety, soil and climate. The large ety, soil and climate. The large growing sorts will naturally require more pruning than the more modermore pruning than the more moder-ate growers, also berries grown on poor soil will need less heading held than those grown on very fortile soil. The ease of pruning depends on wheth-er it is done at the proper time or not. Where the soil is very fertile the cares will make growths of from 10 to 15 feet in height. Canes of this height are out of the question when it comes to picking the fruit. This difficulty can be overcome by

when it comes to picking the fruit. This difficulty can be overcome by proper summer pruning. The field should be gone over as soon as the shoots are two or three feet in height and the tops pinched out. This will cause side branches to put out near the ground, producing stocky self-supporting canes. If the side branches show a tendency to grow too tall, pinch out the bud. Never allow a cane to grow 10 feet high then cut back to three or four feet. By doing this, you will remove the larger part of the next year's crop. part of the next year's crop.

The removal of the old canes at the

The removal of the old canes at the correct time is very desirable. Very often they are allowed to remain until the winter pruning. However, this is a mistake, as they remove a large amount of plant food and moisture from the soil; and also are often diseased, offering a fertile source of infection for the new canes. Therefore, cut out the old canes as soon cover, cut out the old canes as soon the field and burn the treat.

Winter pruning should be done just

field and burn the trash.

Winter pruning should be done just
before the sap starts, or after all danger of winter-killing is past. It consists of thimning out the canes and
sightly heading back the long side
brunches. The amount of wood that
will have to be removed depends on
the vigor of the plant. If the varistars and analysis of the control of the contions of the control of the control of the contractions of the control of the conside of the control of the conside of the contractions of the conside of the conside of the contractions of the conside of the ety has a tendency to produce a large number of weak canes the clumps should be thinned out enough to insure good marketable berries PICKING AND MARKETING.

PICKING AND MARKETING.
When picking for the home market
be sure that the berry is ripe, as
blackberries have a tendency to color
up before they are fully ripened.
Where long shipments are expected
the berry will have to be picked as
soon as well colored. Never leave the soon as well colored. Never leave the soon as well colored. Never leave the berries in the sun after picking, as a bitter flavor will be developed spoil-ing the fruit for use in the green state. When putting up the fruit for shipping, use the kind of crates and boxes that are used for the strawberry

LIFE OF PLANTS.

The length of time a blackberry plant will produce good fruit depends on its care. As a rule they will be profitable longer than any other cane

FALL TERM

3RITISH AMERICAN BUSINESS COLLEGE

Y. M. C. A. BUT DING PEGINS ON

SEPTEMBER FIRST

This sehol is the oldest and best of its kind in Casada, and intending students will do well to write for catalogue before selecting a school.

T. M. WATSON - PRINCIPAL

HORTICULTURE

Very large specific control of the plants should be removed and the soil used for something else for a few years. To kill out the patch mow off and burn the bushes as soon as the corp is picked. Plow deeply and go very the ground with a spring-tooth and the proposed proposed to the proposed proposed to the proposed propo harrow, removing as many of the roots as possible. Keep down the suckers by persistent cultivation, and it may require several years before they are entirely exterminated.

Pastime of a Retired Farmer

Pastime of a Ketired Farmer
The illustration on this page
shows part of a plot of land on Mr.
E. Terrill's farm in Northumberland Co., Ont., on which his brother,
Mr. A. Terrill, who is 78 years old,
keeps himself in congenial employment. Mr. E. Terrill is one of the
competitors in the Dairy Farms Competition. On this farm, a plot of
five acres of land admirably suited
for the purpose is devoted to growing small fruits under Mr. A. Terrill's management. Three acres of management.

The Raspberry Cane Girdler

"My raspberry stalks are mostly uthberts. On the canes, a few inches down from the top (perhaps from four to eight) there appear two circles, about an inch apart, as if girdled, and between these circles can be seen a tiny puncture, in which there is an egg. The plant above these girdles immediately wilts and dies. The canes break very readily at these circles, and I have tried to pick and burn and I have tried to pick and built them, but after the top has once been removed the operation is repeated a little lower down. The pests also work on the tender new branches."

The foregoing question was sent to the State the State entomologist for Pennsylvania. Should this pest be injuring the plantations of any raspberry growers in Canada, the remedial measures recommended by Professor Surface will be of interest to them. They are

as follows:
"The damage is done by the Raspherry Girdler. You should at once der Mr. A. Ter-berry Girdler. You should at once Three acres of clip off the canes just below where

ditions, will easily weigh on an average four ounces, when green. Twenty-five such roots will weigh when dry two and a quarter pounds, while the same number if grown under adverse conditions might not yield more than half of the above quantity. It all de-pends on the care and attention giv-en. I believe that the size of the root can be increased. For instance, root can be increased. For instance, large vigorous plants indicate a large root beneath; by going through the garden early in summer and pinching off all the berries from the smaller plants and using no seeds for propagation but those from large vigorous plants, we can produce a larger strain of ginseng.—Wm. Gilgore, Petarbaro. Out terboro, Ont.

One Million Packages for Fruit

L. A. Hamilton, Peel Co., Ont., Pres. Clarkson's Fruit Growers' Association.

The Clarkson's Fruit Growers' As-The Clarkson's Fruit Growers' Association, Clarkson's, Ont., bought this year over a million berry boxes and crates. It took 38 box cars to haul these over the G.T.R. from the factory to Clarkson's. If these boxes were put end to end they would reach over 100 miles.

In view of what has been done to develop the fruit industry in this section within the last few years, it does seem a short sighted roline. Ger

does seem a short sighted policy for the Grand Trunk Railway and the Canadian Express Company to have micanderstandings and disputes with the fruit growers as one can readily see what a business accrues to the express company in handling the fruit contained in these million packages. And this industry is yet in its infancy and will grow by leaps and bounds, provided that it is fostered by the carriers whose interests in this matter ought to be identical with our own.

Care for the fruit trees and you will be rewarded.

The most satisfactory method of growing beans free from Anthracnose is to select the seed beans from pods that show no signs of disease, and to spray with Bordeaux at intervals dur-ing the growing season.

The September issue of THE CANA-The September issue of the Cana-DIAN HORTICULTURIST, the companion paper of Farm and Dairy, will be the best number of the year. Mention of its leading articles will appear in these columns next week.

I like Farm and Dairy very much. Every up-to-date farmer ought to take it, and if a farmer is not up-totake it, and if a farmer is not up-to-date, it will soon give him the necessary qualifications. It is regrettable that many of our farmers "know it all," but when they see their friends outstripping them in matters of good stock and crops, they will probably get their eyes opened.—J. Moir, Echo Farm Dairy, Lanark Co., Ont.



There is Profit and Pleasure in Working a Berry Patch Like This

Instead of retiring from the farm and going to a town or city, Mr. A. Terrillo of Rocial and the profitable as well as congenial employment in managing and working the control of the con

the patch are devoted to strawber-ries, blackberries, red raspberries, A beetle inserts its eggs in the twig, gooseberries and currants of several different varieties of each. The pre-which bores in the cane. It develops sent season has been somewhat against the patch, though, notwithstanding the drought, it has given a fair account of itself. At the time of fair account of itself. At the time of our visit, the strawberry patch had just finished fruiting. It has been well keep, not a weed being in sight.

Mr. Terrill announced his intention of cropping this patch the second time. His method of renewing

cond time. His method of renewing the patch is as follows: After the crop is harvested the patch is gone crop is harvested the patch is gone crop is harvested the patcn is gone over with the mower and clipped closely. The plow is then taken into the patch and the soil between the rows turned over, the width of the rows being reduced to at least one-third their former size. The land is then cultivated down and earth about then cultivated down and earth about an inch deep is hoed over the rows. Covering the plants in this way puts them deeper into the ground where they seem to stand the drought and winter better. This practice would not prove beneficial in beavy soils, but gives good results in sandy soil.

The first meeting of the Canadian Forestry Association to be held in the prairie provinces will be at Regina and is called for September 3 and 4. and is called for September 3 and 4. Tree planting and tree growing in the prairies will be one of the chief topics for discussion. Other topics as well will have prominent places on the program. The railways have promised a single fare rate to delegates for the round trip. Programs and further information. information in regard to the meeting may be obtained from the secretary of the Association, Mr. Jas. Lawler, 11 Queens Park, Toronto, Ont.

which bores in the came. It develops into a beetle for next year's brood. If the top breaks off entirely, the lar-va is liable to be carried in the parts which fall upon the ground, and these should be at once gathered and burned. The girdling is for the purburned. The girding is for the pur-pose of checking the flow of sap and making the canes break at a place where it will be suitable for the dev-elopment of this pest."

Size of Ginseng Roots How large will the roots of ginseng grow?-P. L. R., Lanark Co., Ont.

Roots six years old from the seed, grown under the best possible con-

SOME EXCELLENT PREM

Get a Copy of our New Premium List

Farm and Dairy has recently issued a new Premium 5 Catalogue, in which illustrations and descriptions are given of a large number of useful premiums that will interest you. These premiums are not for sale but are being GIVEN AWAY. Full descriptions are given for securing any premium that may interest you. Write for a copy. Send us a post card, and one will be sent you by return mail. Address:

CIRCULATION DEPT., FARM AND DAIRY PETERBORO, ONT.

Expired

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August

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Prof. F. C.

Most pobators have

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Many o have been for many ye to continue many years they will re tions pron expire, thu trouble of n sonally.

Look at wrapper of week. If it X it means tion has e your renew your subscr expired, and renewed, w lose no time our subscrip strictly in ac the blue X week. If yo to let us see an early date

Circulati FARM A PETERBOR

Most poutry men who run incu-bators have had chicks affected with what was said to be "White Diar-hoea." It usually attacks young chicks before they are two weeks old and is probably the worst epidemic that has ever struck the modern poul-try raiser. We have been told that it was due to faulty incubation, and operators of incubators have tried in operators of incubators have tried in every way to run the machines so as to be free from it. But it seemed to come no matter how long or how high the temperature was kept, until many have almost determined to go back to the old hen and leave artimany have back to the old hen and near-back to the old hen alone. Recent except incubation alone. Recent except have shown that the hen hatched chick is also troubled in the hatched chick in the hatched chick is also troubled in the hatched chick is also troubled in the hatched chick is also tro Morso, in charge of Investigation in Diseases in Poultry, United States Department of Agriculture, Washington, to come out with something new or something that at least seems practical. Dr. Morse has already written a bulletin on the subject and is looked upon as being on the right track by practical poultry men. THE CAUSE.

Those who read Dr. Morse's article in July issue of P. Journal, will feel grateful to the Doctor and will be glad to know that his efforts are being glad to know that his efforts are being rewarded by something tangible. He can call the name a misnomer if he can call the name a misnomer if he likes so long as he gives a remedy. He says: 'It is not too high temperature in the brooder, it is not unabsoriated by the call the like is not unabsoriated by the like is not unabsoriated by the like it is n ed yolk, it is not any one of these or all of them gether that causes the white diameter, associated with the plugged —the cause is coc-Morse the only remedy is absolute cleanliness. He further says: "We must remember that, lacking full proof yet as to the infection of the

Expired Subscriptions

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

POULTRY YARD reaches the chick through the mouth; it is taken in with the food and drink. That is why you wash the cycle or dip them in 95 per cent alcohol cr a four per cent, solution of a good coal tar disinfectant; so that no infection from the her's intestines lirking on the eggshell shall contaminate to the cycle of the cyc nursing on the eggshell shall contami-muts the egg tray or nursery floor. That is why you top-dress the runs with time and plow them up; that is why you go over the runs with some strong disinfectant like sulphu-ria acid, or, if the houses will permit, sprinkle coal oil over the runs and set fire to those Removes 6.6. set fire to them. Remember, fire is the best disinfectant but a terribly dangerous thing to fool with.

dangerous thing to fool with.

TRENTMENT.

How shall we treat the sick chicks?

As soon as any show signs of the disease remove them from the well chicks; give them from the well to 90 chicks to the teaspoonful, according to age and size. One trouble is that they are not much inclined to eat at this time. If you have but a few you can poke the food down their throats. Most of the large pharmacutical houses put up a tablet triturate containing caloned, one-fifth centrical houses put up a tablet trit-urate containing calomel, one-fifth grain; ipecae one-tenth grain, and bicarbonate of soda, one grain. I find that one of these to a chick from three to six weeks of age acts very nicely; smaller doses for the younger.

smaller doses for the younger.
Bichloride of mercury tablets containing, each, one-thousandth of a
grain, drug strength, as recommended by Dr. Woods, I have tried with
excellent results. Ten such tablets
dissolved in one quart of drinking with
the strength of the strength of the strength of the strength
good way to give the corrosive sublimate treatment. limate treatment.

The grains of iron sulphate to the gallon of drinking water appears to have a good effect. Do not continue the iron sulphate (copperas) treatment too long without a laxative like ment too long without a laxative like Epsom salts, for it is constipating. I have apparently often had good real that a payarently often had good real that a payarently often had good real to one or two medicine dropperfuls of a one per cent. solution of carbolic seid. I have no hesitation of carbolic seid. I have no hesitation aring that while you are thus treating this disease you will be reading this disease you will be reading this disease you will be reading this idea out, remember three things: Disinfect the intestinal tractions; Disinfect the prediction of the dault stock; disinfect the predictions and the second seco mises; and, last, but not least, disin-

misses; and, last, but not least, disinfect the eggs prior to incubation."

Dr. Cushing, of the Royal Victoria Hospital, Montreal, has been kind enough to examine scores of chicks for the Macdonald College this spring and the Maccionaic College this spring and the conclusions he came to several months ago are almost identical with those expressed by Dr. Morse. I shall endeavor to get Dr. Cushing to give us the benefit of his experiments in come favire leave. in some future issue.

Hens that Eat Eggs

The Michigan "Poultry Breeder" says that at this period of the year some of the hens will be guilty of eating their committee. some of the nears will be guity or earing their eggs, and it is one of the
most annoying vices that can exist in
a flock. It is a habit that is acquired,
can hen becoming addicted to it and
teaching the others. Hens will never
their corps however unless induseat their eggs, bowever, unless induced to do so from some cause. If fresh ed to do so from some cause. If freen shells are given them or an egg be-comes broken, they learn that they have a source of food, and take ad-vantage of their opportunity. The vice cannot be cured; that is, if

The vice cannot be cured; that is, if the hens once begin to eat eggs they will always do so if they can. The best remedy, however, is to get rid of them; begin with a new flock. By them; begin with a new flock. By arranging the nests egg-eating may be sometimes prevented, but does not de-stroy the desire. Get a soap box with a top and compel the hen to go in-to the box for a nest at the end, so as to compel her to walk in. The box should be just large enough for her to sit in, and not stand up comfortably. Fix the nest ten inches from the floor, or so she cannot stand on the floor and eat the egg out of the box. If she cannot stand in the box, she will not stand in the box she will not stand in the cat the care. she will not attempt to eat the egg when on the nest.

Poultrymen at Guelph

(Continued from page 6) men who will doubtless spend the rest of their lives in the same work

of their lives in the same work.
The questions discussed at this meeting are not especially for publication.
No paper was represented at the meetings. The idea was for those interested in the instruction to meet and discuss the various phases among themselves, where they could express themselves, where they could expres Hemselves, where they could express their own opinions, criticise where they saw fit and know they would not be made public. However, there were a good many valuable lessons brought out at the various meetings. There were pressen, men known. brought out at the various meetings. There were present men known. There were present men known of the throughout the poultry world for the throughout the party done. While we min such men as Dr. Pearl of we main, Horace Atwood of West Virus, D. J. Main, Horace Atwood of West Virginia, A. G. Gilbert, Ottawa, D. J. Jambert, Rhode Island, Dr. Morris, Washington, Professor Rice of Cornell, R. R. Sloeum of Washington, F. H. Stoneburn of Connecticut, Professor Grabam of Guelph, L. H. Baldwin and J. H. Robinson and others, it will be some how reversatistic to the control of the contro it will be seen how representative the meeting was. QUESTIONS DISCUSSED

meeting was.

Among the questions discussed at the meeting were modern methods of the meeting feeding, influence of age in determining the value of breeding stock, inheritance of function of egg production, the influence of fertility and hatching power of eggs, conditions affecting eggs for hatching, method in teaching of poult-ry husbandry, co-operative poultry association and many others both of a theoretical and practical nature. However, the product of the produc

Miss Yates is connected with the Christian Department of the Farmer's Institute and does considerable lecturing throughout the Province. Her turing throughout the Province. Her system of trussing and dressing fowl is very simple and she knows how to do it. She is a very interesting speaker and one cannot help but be interested in what she has to say. According to Dr. Pearl's recent investigation.

According to Dr. Pearl's recent investigation some have come to the conclusion that the production of eggs is not hereditary. The Dr. proves most conclusively that it is and he is working to show the best method to obtain results. His work is very incresting and will be productive of very much cond.

A complete report of all the ques-tions decided upon cannot be given in

OF SPECIAL VALUE TO DAIRYMEN

OF SPEGIAL VALUE TO DARYMEN
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supplied under absolute an advantage
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Circulation Department,

FARM AND DAIRY PETERBORO, ONT.

one article but those present felt that the time was well spent and that they had received a great deal of inthey had received a great deal of in-formation that they could put to prac-tical use on return to their homes. Professor W. R. Graham who las been the efficient President of this Association retired and Dr. Pearl of Main University, Orono was elected.

On Friday evening those present ere entertained by Pres. Creelman were entertained by Pres. Creelman and Professor Graham to a luncheon on the lawn, after which they inspect-ed the poultry department.

For all farmers, a most profitable branch of the poultry business is the production of eggs in the winter.

DO NOT FAIL TO SEE THE EXHIBIT OF BARN ROOFING

ATTTHE

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In the Manufacturers' Building we have a big exhibit of Metallic Building Materials—material that is taking the place of wood because it is more durable and more economical.

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CIRCULATON STATEMENT
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FARM AND DAIRY PETERRORO, ONT.

INVESTIGATE HOME CONDITIONS OF BACON INDUSTRY

by the Dominion Government to investigate the bacon industry in Europe will soon be home. They will be able to present, from a Canadian hog statement. When beef and pork sells raiser's standpoint, the conditions that for from five to eight cents respecimpressed them, as having placed tively, while well fattened poultry such countries as Domark and Ireland in the lead production. The commission practical hog raisers, it may not be necessary Mr. D. Burch of Norfolk County, for them to inquire to any great given on page 3 of Farm and Dairy length as to the system of breeding this week will bear careful reading and feeding hogs in this country. It is necessary, however, that they shall think of selling pork or beef unfatinvestigate other conditions at home tened. Why should we sell unfattened before they can make an intelligent poultry when we know that to fatten application of the information they them is most profitable? have gained. They should inspect our Canadian packing plants, find just why our co-operative plants failed, what influence the drovers and pack- its fair share of comment of late. ers have in the manipulation of prices Much is being said and less done to in Canada and give the packers a bring about good roads. The County aged so that the first silo filled this chance to bring forward any informa- system of road construction whereby year, will be the second next year life is brought into seepardy will not

FARM AND DAIRY members of the commission have an aid, to build macadam roads leading be filled in a most satisfactory manner opportunity to investigate home conbefore it is issued.

The Hon. Sydney Fisher, Dominion credit for appointing the commission. He should now instruct the commissioners to make a full and complete investigation into the pork packing business of this country. It is in the best interest of all that a full and complete report be made. Nothing short of this will be satisfactory to the farmers of the country.

POULTRY FATTENING

To crate-fatten poultry is not a new thing. It has been advocated for years and is such an old story that it is generally admitted that it pays to fatten cockerels before puting them on the market. Such belief may be common, but is it put into practice? Only by the few. Much of the poultry that is marketed is a disgrace to the Provincial Government may well set producer. Had it been properly fattened it would have commanded a the use of the split log drag in immuch increased price, it would have proving the common earth roads of been disposed of at a profit and would this Province. have given general satisfaction to all concerned.

The situation was aptly portrayed the fall and offered three or four hundred barred rock cockerels that weighed six pounds each. The produce man said, "These are just what I want. I suppose they are fat?" The farmer replied, "Yes, I think they are. I have fed them a shovel full of oats once or twice a week and I think they are fat enough all right. They are roosting in the trees and I want to get rid of them." At this the produce man told him that he did not want his cockerels at any price, but that if he would go home and feed those cockerels for three weeks according to the directions available on crate-feeding chickens, he would guarantee to give him from \$1.00 to \$1.25 a piece for them.

Many who make a practice of crate-The Swine Commission, appointed fattening chickens claim that they can produce a pound of chicken flesh as cheaply as a pound of pork or beef. Experimental stations corroborate this flesh commands 15 cents or over, no further argument is needed for fattening chickens. The experience of in this particular. We would never

IN CAUSE OF GOOD ROADS

The subject of good roads has had

to important centres and markets and and at a minimum of expense. ditions thoroughly their report will be along the main lines of travel has discredited to a considerable extent done much to improve the roads of Ontario. The system, however, is not being taken advantage of to the ex-Minister of Agriculture, deserves tent that is desired. Macadam reads are costly and will for many years to come be denied to the great percent- having done more in the last quarter age of those who must use our country roads.

Some cheaper means of improving the roads than we already have is imperative. The Farmer's Advocate through their split log drag competition, and the agricultural press in general through their advocacy of the use of this implement, have demonstrated to many that ord nary co-ntry roads can be greatly-improved at a offered in Farm and Dairy this week by Mr. D. James, of York Co., Ont., whereby it is sought to create still more interest in the work of the split log drag is most commendable. Our aside a sum of money to encourage

CO-OPERATIVE SILO FILLING

The co-operative ownership of the in the statement made by a Mentreal more expensive farm machinery has produce dealer some years ago. He much to commend it. Many machines said that a farmer came to him in are used for but a few days each year, yet they are a necessary part of every farm and cannot well be dispensed with. These implements represent a considerable outlay and as they are used but for a very short period on individual farms, many of them can be owned and operated co-operatively, Possibly no farm machinery that is as widely used lends itself so advantagecusly to co-operative ownership as does the silo filling outfit. Silo filling, as commonly practised, demands more labor than is available on the average farm and hence interchange of labor with neighbors is necessary. While interchanging labor, machinery might just as well go with it as it cannot be used save where the labor is. Those who fill their silos on the co-operative plan-owning their own outfit and exchanging work among themselvesspeak very highly of the success of this system.

Many are deterred from erecting silos owing to the difficulty of getting them filled. Where three or four are interested in silo filling, they may well give the matter of owning their own outfit serious consideration. Even where individuals can be secured to fill the silo, their work is not always the most satisfactory and it is at the same time, costly. Silo filling is, as a rule, on with a rush and the last man to get the service is liable to suffer much loss from frost or overdried corn. Where three or four are interested in a co-operatively owned outfit, a silo filler and a corn binder, each member having his own work for the season, i.e., one man to manage the corn binder, another to run and show good editorial management. the engine, etc., and the system man-

Durham Co., Ont., lost one of itbest known agriculturists in Henry Cole Hoar, who died last week of anaemia. Mr. Hoar was of that class of which we have too few, he probably of a century for the promotion of mod ern methods of farming than any other farmer in West Durham. He has been, from its inception, secretary treasurer of the West Durham Farmers' Institute, has conducted a great many excursions to the Ontario Agricultural College, Guelph, was a reqular visitor at, and promoter of, the Provincial Winter Stock Fair at Guelph, was manager of West Durminimum expense. The suggestion ham Agricultural Exhibition, secretary of the West Durham Sabbath School Association, for many years an active member of the Provincial Association, and filled many other responsible and useful positions in Darlington Township. Mr. Hoar was a member of the committee in charge of Farm and Dairy's Special Good Farms Competition for Durham Co. Members of the organizations that he served, his fellow-farmers, will deeply mourn their loss in the death of Mr. Hoar.

> bringing the matter of the reforestation of waste lands in Ontario before the public are bearing fruit. Most favorable mention of the work accomplished to date and of the convention held in Cobourg on June 9th, where the subject of reforestation of waste lands was discussed, is given in the current issue of The Canadian Forestry Journal, which is the official organ of the Canadian Forestry Association. The latest move seeking to further the work that has already been launched is the publicity beinggiven to this matter of reforestation by means of comment on the Cobourg convention in bulletin form, prepared under the direction of Mr. R. H. Campbell, Superintendent of Forestry for the Dominion, issued to the newspapers throughout Canada and which is reproduced elsewhere in this issue. The sentiment that will be created through this publicity should prove helpful in assisting those who are at the back of this forestry movement to attain the objects sought.

The efforts of Farm and Dairy in

Evidence of the increasing importance of the live stock and agricultural interests of Canada is afforded by the fact that a new live stock and farming paper has been started recently in Toronto, under the name of the Canadian Farmer. The editor, Mr. J. H. S. Johnston, is well known among the leading live stock men, particularly among horse breeders. The new paper will devote special attention to the live stock interests, and will be Dominion in character. The first few issues have appeared

tion they may care to. Unless the it is sought, by means of Government and so on in rotation, the silos may be a part of the Canadian National

standpoint o ******* Cream Butter Mak tions to this a matters relati mest subjects letters to the

Butter a Waddell &

Dairy Produ ing June 30 adian butter proving in que butter spotte considerably temperatures it was shipp to is a very rabutter, the n idity and tai being delive

Regarding method adopt edly it has de keeping quali flavor, which make mildnes re is exerci and-bye be a sipid. It is report that the has arrived the shows the gr ance of any y

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Ed. Farm and disgust that I article "Trout dealing with ing with household and Dairy, Ju one would conc agents still per leading statem necessity of w incriminate all one, your humb ing this matter spares no pains the great nece separator each used. No more ogue about th leaving the sepa cannot help but ity that is their after having one ment that is left

afer separating I trust Farm tinue to keep I necessity of those separators regu not allow any or ments which wo reader to believ sell separators in ter of cleaning t thing that I wa my name and t sell.—"Hair Spli Note.-While

evidently educati properly wash the being taken at where the separat Exhibition this year. The action of the board of management in excluding separators once a day.—Editor. thrillers from their attractions is most commendable. They may rest assured that such will meet with the approval of the public generally and that it will not adversely affect the success of the exhibition from the material standpoint of dollars and cents.

Creamery Department

Butter Makers are invited to send contribu-tions to this department, to ask questions on matter relating to the contribution of the contribution

Butter and Cheese Improve

Butter and Cheese Improve
Waddel & Company, in the Colonial
Dairy Produce Review of the year ending June 30, says a Canadian Association Press dispatch, say that Canadian butter on the whole is slowly improving in quality. The proportion of
batter spotted with mould was very
considerably reduced owing to lower
temperatures being maintained before
it was shipped, and also during the
voyage to our markets. Fishiness
is a very rar fault with Canadian
butter, the main defect being an acdity and taint due to the cream not
dity and taint due to the cream not idity and taint due to the cream not being delivered daily to the fac-

Regarding the cheese cool-curing method adopted by Canada, undoubledly it has done much to improve its leeping quality as a benefit its leeping quality as considered to the second property of the sec report that the Canadian cheese which has arrived this season since May 1 shows the greatest improvement in richness, flavor, texture and appearance of any year on record.

Washing Separators

Washing Separators

Ed. Farm and Dairy.—It was with disgust that I noted that part of the article "Trouble with Separators," dealing with washing separators, in the household department of Farm and Dairy, July 29. From the remarks of Dairy Instructor Ward, one would conclude that all separator agents still persisted in making misleading statements in regard to the necessity of washing separators. Of course, Mr. Ward did not mean to incriminate all agents. As for this one, your humble servant who is drawing this matter to your attention, he ing this matter to your attention, he spares no pains in pressing upon all the great necessity of washing the separator each and every time it is spatial reach and every time it is ised. No more filthy practice is in logue about the farm than that cf caving the separator unwashed. Any leaving the separator unwashed. Any one who has ever washed a separator cannot help but know the responsibility that is theirs in keeping it clean, after having once seen the fitthy sediment that is left in the separator bowl afer separating milk.

afer separating milk.

I trust Farm and Dairy will continue to keep before its readers the necessity of theroughly waining their separators regularly, but please do not allow any one to make predict the separators regularly, but please do not allow any one to make states ments which would lead the ordinate ments which would lead the ordinate reader to believe that all separators agents mislead those to whom they sell separators in regard to the matter of cleaning them. Lest you might thing that I was seeking free advertising I shall refrain from mentioning my name and the separator that I sell.—"Hair Splitter." in the second of the sell of the se

Note—While "Hair Splitter," is evidently educating his customers to properly wash their separators and to do it twice a day, evidence that is being taken at first hand right out. where the separators are in use shows that countless people are being told A Camera for Four New Subscriptions

Good Body in Butter

Good Body in Butter

To be ideal in body butter should be firm, waxy, and show grain as a piece of steel when broken. It should also appear dry and be free from loose moisture. Some of the defects found in the Pennsylvania defects found in the Pennsylvania Good of the Study of Pennsylvania Butter, "A Study of Pennsylvania Butter," A Study of Pennsylvania Butter," A Study of Pennsylvania Butter, "A Study of Pennsylvania Butter," Butter in their bulletin, No. 23, "A Study of Pennsylvania Butter," A Study of Pennsylvania Butter, "A Study of Pennsylvania Butter, "A Study of Pennsylvania Butter," A Study of Pennsylvania Butter, "A Study of Pennsylvania Butter, in their bulletin butter is neid, and salvy. Loose moisture in butter is ousually caused by churning it to doo large granules, thereby making peckets in which the water is held, etc in which the water is held, etc in which the water is held, etc in which the water and insufficient working. A common cause of brittle butter is low temperature of wash water, while slushy butter, on the other hand, is caused by too high tempuraing. A common cause or brease outcomes is low temperature of wash water, while slushy butter, on the other hand, is caused by too high temperature, either in churning or washing or working. When the wash water too warm or to overworking wash water too warm or to overworking is sufficient. If the butter "breaks" in Mith good cream one washing is sufficient. If the butter "breaks" in good firm condition, wash water about the temperature of the buttermilk, as it is drawn off gives gorenes in good firm common figures governes in farm condition, wash water one or two firm condition, wash water one or two

far is harder, and the butter comes in firm condition, wash water one or two degrees warmer than the buttermilk degrees warmer than the outcoming may be used without injury to the butter. Our method of washing and bay be used without injury to the butter. Our method of washing and a butter is to run the butter-induced by the mean of the size of the s

cond washing.

The working of butter is the most difficulty, the revolutions should always be used to be used The working of butter is the most

The Iced Refrigerator Car Service The leed Refrigerator Car Service for the carriage of butter to Mon-treal from the Guelph and Goderich Branch will, for the balanco of the scason, be operated fortnightly instead of weekly, as heretofor. The next car will leave Goderich on Friday,

Color should not be ordered in such Color should not be ordered in such large quantities as to become state or rancid before using, and the amount used should be accurately calculated, either on the mount of milk. The former is the more accurate method.



SEE

The DeLaval Cream Separator

Toronto, London, Ottawa and Sherbrooke **EXHIBITIONS**

Ask for Souvenir

EVERY GENUINE

DeLaval Cream Separator bears the Company's Name Plate

THE DE LAVAL SEPARATOR

173-177 William St. MONTREAL

WINNIPEG

VANCOUVER

ATTENTION!

Cheese Manufacturers



Fig. 1



We are placing on the market a new cheese box which eliminates all the undesirable features of the old-style package.

This box is made of three pieces of veneer, with the grain running from top to bottom. It also has the advantage of a hoop placed near the top as shown in fig. 2, thus making it very strong and durable. In fact it is impossible to break it with ordinary handling. Every box is guaranteed, and any breakages will be replaced.

This box can be shipped in crates in knock-down shape, thus affecting a large saving in transportation charges.

For full information regarding prices, deliveries, its advantages, etc., write

Toronto Boxbarrel Co.

43 Yonge Street Arcade

TORONTO

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.

น้ออจจอจจอจจอจจอจจจจจจจจ Mr. Barr's System Works Well

Ed. Farm and Dairy,—For years I have had much trouble in keeping my milk so that it would be delivered at the factory in good condition. I have suffered big losses from milk rejected at the factory. I used to practise airing my milk with an aerapractise airing my milk with an aera-tor, our cheese maker at that time insisting on us airing our milk for a half an hour or more. This year, however, after having heard Mr. Barr's lecture at Warsaw last winter on "The Care of Milk for Cheese Making," I decided to try his system. I due a well clear to railly wear? I dug a well close to my milk yard and built a water trough 12 feet long and two feet wide. Into this trough we place our milk cans as soon as we are through milking and pump the trough full of water from the well. Before retiring for the night, I put the covers on the cans and let them

the covers on the cans and let them sit there in the trough until morning. We have had less bother and the best milk since adopting this system that we ever had. Our maker, Mr. Graham, says that our milk now, is the best delivered at the factory.— G. Lonsberry, Peterboro, Co., Ont.

Young's Point Cheese Factory

The illustration on this page shows The illustration on this page shows one of the patrons at Young's Point, Peterboro Co, unloading milk at the cheese factory. A representative of Farm and Dairy who recently called at the Young's Point factory, when the photo reproduced was secured, to the photo reproduced was secured, to the photo reproduced was retory in a very neat and bare the product of the pr cepted the agency for Farm and Dairy in his vicinity.

in his vicinity.

Cheese from the Pine Grove factory are held in the curing room and shipped every two weeks as sold on the Peterboro cheese board. An aver-

K 000

The word "DISKS," shown above, was formed of 52 disks taken from one

common "bucket bowl" cream sepa-

rator a disgusted farmer and his over-

worked wife discarded for a Sharples Dairy Tubular, The "disk man" mis-

led them by calling this complicated machine simple and easy to clean.

Fifty-two disks look simple, don't they?

Let disk and other "bucket bowl"

cream separators alone. Get a light,

simple, sanitary, easy-to-clean Sharples

.....

Urs

Dairy Tubular, with nothing inside the

bowl but thetiny piece on the thumb. Thou-

sands are discarding

Tubulars. Made in

world's biggest sepa-

rator factory. Branch factories in Canada

and Germany, Sales exceed most, if not

all, others combined. Write for Catalog 253

bucket bowls"

age of six cheese a day are made, a double quantity being made on Mon-

Preparation and Use of a Culture

A culture for cheesemaking is now A culture for cheesemaking is now looked upon as a necessity, therefore the need of full and exact knowledge of the proper methed of preparing and using cultures. First provide suitable cans of good tin, which are well soldered and about 20 inches deep and eight inches in diameter. It is better to have a duplicate set, as this gives a better construit for the property of the control of the con es deep and eight inches in diameter. It is better to have a duplicate set, as this gives a better opportunity for keeping them in good condition. When the milk is in small lots it can be more readily heated and cooled than if kept in larger quantities. For convenience in heating and cooling, a special box large enough to hold the cans containing the culture for one day's use should be provided. This should have cold water and steam connections. The cans may be connections. The cans may be left in this box so as not to be in-fluenced by the outside temperature. In starting a culture it is advisable to In starting a culture it is advisable to use a commercial or pure culture. These may be obtained from the bac-teriological department of the Onta-rio Agricultural College or from any of the dairy supply houses.

Special temperatures are required for the first propagation of these commercial cultures. Empty the mo-ther culture into a quart of pasteurized milk cooled to a temperature of



Unloading at Young's Point Factory

75 to 80 deg. Fahrenheit and allow to stand until coagulation takes place. It is advisable to propagate commer-It is advisable to propagate commer-cial cultures at least two or three times before using them. Better re-sults may be obtained by using the milk from the same source each day, as we are more likely to get a uniform flavor and acidity from day to day by so doing.

After selecting the milk for culture.

After selecting the milk for culture, heat to a temperature of 185 deg. Fahrenheit, then cool rapidly to a temperature of 60 deg. Fahrenheit. To this milk add enough of the culture already prepared to develop an acidity of not more than .7 at the time the culture is required for use. If the culture is to be kept more than 24 hours it is advisable to set accordingly by using a lower temper-ature and using less of the mother culture. Aim to produce the same acidity from day to day. Before us ing remove one or two inches of the milk from the surface of the can, as this is more liable to contamination from outside sources. Break up the remainder by stirring well in the can. At this time take out a small quan-tity to propagate the culture for the next day. A glass sealer should be provided for this purpose.

provided for this purpose.

The indications of a good culture are as follows: The whole mass is firmly coagulated, no liquid is found on top, it has a mild acid flavor, pleasant to the taste and smell. A culture may be used to advantage when the milk is maturing slowly or when it is tainted or gasay; ½ of when it is tainted or gasay; ½ of that should be used that the only when the milk is known to be in a sweet condition. sweet condition

Milk should be set slightly sweeter when culture is used. With gassy milk its use is especially beneficial. Culture with bad flavor or with too high an acidity should not be used. A wire bandled dipper is preferable

A wife handled dipper is preferable for stirring milk for cultures.

All utensils must be thoroughly cleaned and sterilized after each time of using.—C. H. Ralph in American

T. B. Miller, who from 1891 to 1898 was inspector of cheese factories in Western Ontario and went west in the spring of 1906 is interested in the manufacture of fancy dairy products

at Burnt Lake, Alberta. He writes that he is building up the cheese industry and that he is meeting with

Cheese properly made should improvfor at least six months if kept at a temperature of 60 degrees. It will improve for a much longer period is kept at a lower temperature.—G. G. Publow, Chief Dairy Inspector for Eastern Ontario.

A club of seven new subscriptions will win you a pure bred pig. Write Circulation Dept., Farm and Dairy, Peterboro, Ont.

GANADIAN NATIONAL EXHIBITION

Under the Grand Stand

At the Main Entrance

This is the spot where you will find us this year. We were obliged to vacate the Dairy Building. We are located in a more spacious building. Having been allotted 600 square feet of space enables us to make a

GRAND DISPLAY

Dairy Machinery and Supplies

The newest in MILK BOTTLE FILLERS, WASHERS, PASTEUR-IZERS, COOLERS, SEPARATORS, AUTOMATIC LABOR SAYING MACHINERY for the Dairy in all its Branches. Come and see us, Make our Booth and Warehouse your meeting place for your friends while at the Fair. Our travellers will be there to look after your conforts.

W. A. DRUMMOND & CO.

The Largest Dairy Supply House in Canada 173 KING STREET EAST, TORONTO, ONT.

A Few Reasons Why Our Measurer Should Be Used in Every Factory



First.—It is simple and endurable in construction, not even a

First.—It is simple and endurable in construction, not even a vaive used to go out of order.

Second.—The cheese maker can set it from his milk stand.
Third.—It measures the whey accurately.
Fourth.—The farmer wastes no time waiting for his whey.
Fifth.—He gets his whey every day therefore he is not disappointed.
Sixth.—Our measurer takes the whey from the surface, which does not allow any grease to gather in the tank.

Seventh.—With our card of instruction any cheese maker can install it in a few hours. few hours. Eighth.—The price being only \$60, few factories can afford to be with

out it.

Ninth.—It should last in the ordinary factory from five to ten years.

Tenth.—Our measurer has been used in many factories all over the country without a single complaint.

This whey measurer is gaining in favor every day. We are now installing it all over the country and cheese makers are delighted with the results, as it overcomes the numerous complaints of farmers in the past over those whose warmly. their whey supply.

For further information write for circular.

Heron & Livingstone

376 BANK ST., OTTAWA PHONE 4453 It is desirable to mention the name of this publication when writing to advertisers

August 26

TE. Let us

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SYNOPHIS.—The consists of Mr. vehildren. Pearl the maintasy of Mrs. Burton Fraz is the idol of Pearl the maintasy of mrs. Burton Fraz is the idol of Pearl the maintain of the idol of Pearl the idol of Pearl the idol of Pearl the idol of Mrs. McGuire, the has a beautiful of Mrs. McGuire, the Mr. waston. Mr. Mr. Motherwell is, it of generosity is to generosity of the idol of th

PEARL set to back of the where the I Never before has beautiful. Mrs. her through the them. Something appealed to her wanted Tom to o She tapped on

looked up, startle When the work the narrow stairw over the kitchen Polly's things. She sat on Poll

and looked at the Pearl had done brighten it. The c had been neatly p and quilts had bee to hide their uglin wind blew gently ithe hail had brok been scrubbed clear window, what wa

She was remindere she looked. here she looked. feet was one that
A corduroy blouse
of the bed. She rer
Polly had worn it In a little yellow Polly's letters, lettern her such extra could see her yet, would seize them little room w

Mrs. Motherwell vat them to find or address. She took of slowly, then hurrie again in the envelop be done done. She took olutely, and read it

It was written in

The Sharples Separator Co. West Chester, Pa. Chicago, Ill. Toronto, Can. San Francisco, Cal. Winnipeg, Can. Portland, Ore.





TET us not make heroic resolutions so far beyond our strength that the resolution becomes a dead memory within a week-Let us promise ourselves that each day will be the new beginning of a newer, better and truer life for ourselves, for those around us, and for the world.



Sowing Seeds in Danny

ALL RIGHTS RESERVED. (Continued from last week)

Continued from last week)

SYNOPSIS—The Waston family live in a small town in Manitoba. The family consists of Mr. Waston, a man of few works on the "section" and often consists of Mr. Waston is an imaginative, clever little girl, 12 years of and often consists of the major of

DEARL set the porridge on the that wandered uncertainly over the back of the stove and ran out to where the popues noded gaily. Never before had they seemed so beautiful. Mrs. Motherwell watched her through the window bending over them. Something about the popules. them. Something about the poppies appealed to her now. She had once wanted Tom to cut them down, and she thought of it now.

She tapped on the window, Pearl

She tapped on the window, Feari looked up, startled.

"Bring in some," she called.

When the work was done for the morning, Mrs. Motherwell went up

the narrow stairway to the little room over the kitchen to gather together

over the kitchen to gashed.

Polly's things.

She sat on Polly's little straw bed and looked at the dismal little room.

Pearl had done what she could to brighten it. The old bags and baskets better analty wilded in one corner, origitien it. The oid bags and baskets had been neatly piled in one corner, and quilts had been spread over them to hide their ugliness from view. The wind blew gently in the window that the hail had broken. The floor had been scrubbed clean and white—the window, what was left of it, was shining. shining.

She was reminded of Pelly every-here she looked. The mat under her feet was one that Pelly had braided. A cordury blouse hung at the foot of the According to the the she came. Felly had worn it the day she came. In a little yellow tin box she found Pelly's letters, letters that had giv-es her such extravagent joy. She could see her yet, how eagerly she would soize them and rush up to this little room with them, trans-figured. She was reminded of Polly

Mrs. Motherwell would have to look at them to find our oruly's mother address. She took out the first letter slowly, then hurriedly put it back again in the envelope and looked guilt-liy around the room. But it had to be done. She took it out again resolutely, and read it with some difficulty

down and looked straight already ther.

The sloping walls of the little kitchen loft, with its colowbbed beams faded away, and she was looking into a squalld little room where an old woman, bent and feeble, sat working buttonholes with trembling fingers. Her eyes were restless and expectant; Her eyes were restless and expectant; and extend eagerly to every sound. It is a steen of the door, a hand is on the latch. At the door, a hand is on the latch. At the door, a present which was a steen of the latch. The door opens, and the old wondering and maning, and wringing her hands before the man who enters. It is the officer. Mrs. Motherwell buried her face in her hands.

her hands. 'Oh God be merciful, be merciful,"

she sobbed.

Sam Motherwell, knowing nothing Sam Motherwell, knowing nothing of the storm that was passing through his wife's mind, was out in the machine house tightening up the screws and bolts in the binder, getting ready for the harvest. The barley was whitening already. The nurse's latter had disturbed.

e nurse's letter had disturbe He tried to laugh at himself-The nurse's The nurse's letter had dissultane, him. He tried to laugh at himself—the idea of his boxing up those weeds to send to anybody. Still the nurse had said how pleased Polly was. By George, it is strange what will please people. He remembered when he went constitution of the property of th people. He remembered when he went down to Indiana buying horses, how tired he got of the look of the corn-fields, and how the sight of the first decent sized wheat field just went to his heart, when he was coming back. Someway he could not laugh back. Someway he could not laugh at anything that morning, for Polly at anything that morning, for Polly dead. And Polly was a willing for sure; he seemed to see her Yellow and the seemed to seemed the seemed to see her Yellow and the seemed to seemed the seemed to see her Yellow and the seemed to seemed the seemed the seemed to seemed the seemed t when the men were away she would hitch up a horse for him as quick as

anybody.

"I kind o' wish now that I had given her something—it would have

for her hi ad a cup of tee that di, hi am appy thinkin of yu der polly.

"And Polly is dead" burst from Mrs. Motherwell as somecming gathered in her throat. She laid the letter down and looked straight ahead of her. old woman from the poor house. Do you remember what the girl said in the letter, 'Inasmuch as ye have done it unto the least of these my little ones, ye have done it unto Me?" We didn't deserve the praise the glow us. We didn't send the flow anything f deserve the praise the girl gave us. We didn't send the flowers, we have never done anything for any-body and we have plenty, plenty, and what is the good of it, Sam? We'll die some day and leave it all behind Mrs. Motherwell hid her face in her

Arrs. Motherwell hid her face in her apron, trembling with excitement. Sam's face was immovable, but a mys-terious Something, not of earth, was struggling with him. Was it the faith of that descrepit old woman in that bare little room across the ava, mumbling to herself that God had not forgotten?

the result that God had not forgotten? God knows. His ear is not dulled; His arm is not shortened; His holy spirit moves mightly.

Sam Motherwell stood up and struck the table with his fat.

Ettie, 'he said, 'I am a hard "Ettie,' he said, 'II am a hard man, and as you say I've never given away much but I am not so low down, yeu that I have to reach up to touch bottom, and the old woman will not go to the poor house if I have money enough to keep her out!"

Sam Motherwell was as good as his

word.

He went to Winnipeg the next day, but before he left he drew a check for one hundred dolor, payable to Polly's mother, which are gave to the Church of England clergman to send for him. About two wards he received a letter wards he received a letter of the clergyman of the parish in which was the money had reached the old lady in time to save her from the works. the money had reached the old lady in time to save her from the work-house; a heart-broken letter of thanks from Polly's mother herself accom-panied it, calling on God to reward them for their kindness to her and her dear dead girl.



One morning when Tom came into the kitchen Pearl looked up with a worried look on her usually bright

worried look on her usually bright little face.

"What's up, kid?" he asked kindly. He did not like to see Pearl looking troubled.

"Arthur's sick," she said gravely.

"I went out laink he is sick?"

"I went out laink he is laink lain there's something to groan for, you bet

"Maybe he's in love," Tom said sheepishly.

sheepishly.

"But you don't groan, Tom, do you?" she asked seriously.

"Maybe I ain't in love, though, Pearl. Ask Jim Russell, he can tell you?"

"Jim ain't in love, is he?" Pearl asked anxiously. Her responsibilities were growing too fast. One love affair were growing too last. One love analy and a sick man she felt was all she could attend to. "Well, why do you suppose Jim



Animal Training on the Farm of Mr. T. S. Mastin, Prince Edward County, Ont. The children of one of the editors of Farm and Dairy having a good time with Mr. Mastin's Jersey cow. The boy and girl in the centre are twins. Mr. Mastin, who may be seen in the illustration, enjoyed superintending these operations.

Polly's letters, letters that had girea her such extravagent joy. She could see her yet, how eagerly she would seize them and rush up to this little room with them, transfigured.

Mrs. Motherwell would have to look at them to find our roty's mother address. She took out the first letter address. She took out the first letter looky. The hours of the work was the work the spain in the envelopeand looked guilt, yet around the room. But it had to be done. She took it out again readulty, and read it with some difficulty.

It was written in a straggling hand it was written in a straggling hand. like your place and your misses is so

eased her-some little thing," he

pleased her—some little thing," he added hastily.

Mrs. Motherwell came across the yard bareheaded.

"Come into the house, Sam," she said gently, "I want to show you something." It want to show you something in his wife's face that prevented in from speaking.

He of the week her into the house. The letters on use table, Mrs. Motherwell read them to him, read them with tears that almost choked her utterance.

her utterance.
"And Polly's dead, Sam!" she

Augu

Home

canning vegetable

Select : string the short leng cover with

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Followi

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comes over here every second day to get you to write a note to that friend of yours?"

"Camilla?" Pearl asked open-

Tom nodded 'Camilla can't leave Mrs. Francis,'

"Camilia can't leave Mrs. Francis," Pearl declared with conviction.
"Jim's a dandy smart fellow. He only stays on the farm in the summer. In the winter he book-keeps for three or four stores in Millford and earn lots of money." Tom said admir-ingly.

After a pause Pearl said thoughtful-

After a pause Pearl said thoughtfully, "I love Camilla!"
"That's just the way Jim feels, too,
I guess," Tom said laughing as he
went out to the stable.

went out to the stable.

When Tom went out to the granary
he found Arthur dressing, but flushed and looking rather unsteady.

"What's gone wrong with you old
man?" he asked kindly.

Arthur replied a bit ueer.

"Slept in a field with the gate
open like as not," Tom laughed.

Arthur looked at him inquiringly.

"You'll feel better when you get

Arthur looked at him inquiringly.

"You'll feel better when you get your breakfast," Tom went on. "I don't wonder you're sick—you haven't been eating enough to keep a canary bird alive. Go on right into the house, now. I'll feel your team."

"It beats all what happens to our help," Mrs. Motherwell complained to Pearl, as they washed the breakfast dishes. "It looks very much as if Arthur is goin' to be laid up, too, and the busy time just on us."

ne busy time just on us."
Pearl was troubled. Why should

Fearl was troubled. Why should Arthur be sick? He had plenty of fresh air; he tubbed himself regular-ly. He never drank "alcoholic beverages that act directly on the liver and stomach, drying up the blood, and rendering every organ unfit for work." Pearl remembered the Band work." Pearl remembered the Band
of Hope manual. No, and it was not
a cold. Colds do not make people
groan in the night—it was something
else. Pearl wished her friend Dr.
Clay, would come along. He would
soon spot the trouble.

soon spot the trouble.

After dinner, of which Arthur ate scarcely a mouthful, as Pearl was cleaning the knives, Mrs. Motherwell came into the kitchen with a hard look on her face. She had just missed a two-dollar bill from her sat-

"Pearl," she said in a strained voice, "did you see a two-dollar bill any place?"

"Yes, ma'am," Pearl answered quickly. "Mrs. Francis paid ma with one once for the washing, but I don't know where it might be now."

Mrs. Motherwell looked at Pearl Mrs. Motherwell looked at Feari keenly. It was not easy to believe that that little girl would steal. Her heart was still tender after Polly's death, she did not want to be hard on Pearl, but the money must be

ne place.
'Pearl, I have lost a two-dollar bill. If you know anything about it I want you to tell me," she said firmly.

'I don't know anything about it no

more'n ye say ye had it and now ye've lost it," answered Pearly calmly "Go up to your room and think about it," she said ayoiding Pearl's

Pearl went up the narrow little steps with a heart that swelled with indig-

nation.

"Does she think I sthole her dirty money, me that has money o' me own —a thief is it she takes me for? Oh, wirra! wirra! and her an' me wus gittin' on so fine, too; and like as not this'll start the moneyage and the cancer on her again." cancer on her again."

Pearl threw herself on the hot lit-

Pearl threw herself on the hot lit-tle bed, and sobbed out her indigna-tion and her homesickness. She could not put it off this time. Catching sight of her grief-stricken face in the cracked looking glass that hung at the head of the bed, she started up

"What am I bleating for?" she said

to herself, wiping her eyes on her lit-tle patched apron. "Ye'd think to look at me that I'd been caught stealin' the cat's milk"—she laughed through her tears—"I haven't stole anything and what for need I cry? The dear Lord will get me out of this just as nate as He bruk the windy for me!"

She took her knitting out of the bird-cage and began to knit at full

"Danny, me man, it is a good thing for ye that the shaddah of suspicion is on yer sister Pearlie this day, for is on yer sister Fearlie this day, for it gives her a good chance to turn yer heel. 'Sowin' in the sunshine, sowin' in the shaddah', only it's knittin' I am instead of sewing, but it's all wan, I guess. I mind how Paul

all wan, I guess. I mind how Paul and Silas were singin' in the prison at midnight. I know how they felt. 'Do what Ye like, Lord,' they wur thinkin.' 'Hi ik's in jail Ye want us to stay, we're Yer men.' 'Pearl knit a few minutes in minute once. Then she knelt beside the bed. 'Dear Lord,' she prayed, clasping her work-worn hands, 'help her find her money, but if anyone did steal it, give him the strength to confess it, dear Lord. Amen.'

Mrs. Motherwell, downstairs, was having a worse time than Pearl She could not make herself believe that Pearl had stolen the money, and yet no one had a chance to take it except Pearl, or Tom, and that, of course, was absurd. She went again to bave a look in every frawer in her to bave a look in every frawer in her to bave a look in every frawer in her to have a look in every drawer in and as she passed through the hall she detected a strange odor. She soon traced it to Tom's light over-coat which hung there. What was the It was tobacco, and something It was the smell of a bar

nameless dread in her heart. Tom had gone to Millford several times since his father had gone to Winninameless dread peg, and he had stayed longer than was necessary, too; but no, no, Tom would not spend good money that way. The habit of years was on her. It was the money she thought of first. Then she thought of Pearl. Going to the foot of the stairway

she called: "Pearl, you may come down now."
"Did ye find it?" Pearl asked, eag-

"No, ye still think I took it?"
"No, I don't Pearl," she answered.
"All right then, I'll come right down," Pearl said gladly.

(To be continued next week.)

. . Jelly Making

Conditions which puzzled the house-keeper of long ago and caused her to pay more or less superstitious at-

have better success than her ances tor, her success may not be as great, but she is saved the wear and tear of nerves that comes from uncertainties. She knows what to expect unties. She knows what to expect un-der certain conditions. If there is a deluge of rain on Monday, she does not wish to make jelly on Tuesday because she knows the fruit will have absorbed water and that means extra absorbed water and that he water; the boiling to evaporate the water; the long boiling will darken the jelly or coarsen the flavor. She also prefers to make jelly on a bright day. When she cannot she cannot possibly take care of fruit and attend to other imperative matters, she knows that she can mash the juice from the berries, heat them and let them drip. If she heats and and let them drip. If she heats and then covers them there is no danger of fermentation for awhile. The helps her sometimes to divide her work and make jelly on different days instead of all at once. She thus keeps instead of all at once. She thus keeps for her family a bright little woman, instead of a tired and overworked

The best fruit for jelly is either little under ripe or just ripe. The reason is that green fruit contains reason is that green fruit contains two elements which unite into a dif-ferent element called pectin, as the fruit nears ripeness. It is this new fruit nears ripeness. It is this new element which causes the juice to form into jelly when sweetened sufficiently into jelly when sweetened sufficiently and heated. After fruit ripens this pectin disappears. Even when it is present in quantity to make jelly, the fruit that is too ripe cooks to pieces too easily and gives a cloudy jelly. When one has reason to suppose that fruit is too ripe to make jelly it is a good plan to add a small amount of good pian to add a small amount of lemon juice or an acid fruit. One of the best fruits to use as a base for jelly is the apple. It always jellies, and a very little will be sufficient to influence a large amount of other fruit. Its flavor is not discernible when used with other fruit.

fruit. As merow when used with other fruit.

There is one general mode of procedure in this work. Examine the fruit, reject decayed pieces, wash well and drain. Perhaps the finest fruit and drain. Perhaps the finest fruit is not doubt of canning. Juley fruit is not doubt of the finest fruit is not make it and the first process of the first pro enough to mash it and heat gently, thus drawing out the juice. Apples, peaches, plums, or "meaty" fruit are put on to cook in just enough water to cover or even less. If the pulp is to be used for marma-lade the fruit must be pared and cored, otherwise it is not necessary. cored, otherwise it is not necessary. Cores and skins from the apples could be cooked separately and the juice poured with that from the pulp. As soon as the juice is extracted turn all into a flannel or stout linen bag and let it drip without squeezing. This makes the clearest jelly, and a second grade can be made from what is avuered until the property of the second property of the property of squeezed out.

Have two cups of exactly the same tention to the phases of the moon are perfectly understood to-day by her the other for juice. Measure equal up-to-date descendant. She may not parts of sugar and juice for each

boiling and do not try to make more than two glasses at once. There may than two glasses at once. There may be two kettles on at once, but one should be started a little before the other. No metal except silver should be used in any of this work. The utensils should be granter or earthen. Some prefer to heat the sugar and add it to the juice when it heats. At add it to the juice when it heats. At solved and then boil seeadily but not hard. After ten minutes it must be After ten minutes it must b hard. After ten minutes it must be watched closely for it changes rapidly and if cooked too long the jelly will be too thick or fail to form. While cooking, the juice must be skimmed and when ready to set off it must be cleared entirely. If this scum is stirred it will break and scatter through the jelly and cannot

The glasses should be heating in wa The glasses should be heating in water, and when being tilled should stand in hot water out of a dratt. Put a silver spoon in the glass while pouring in the jelly and there will be less danger of breaking the glass. The jelly is done when it hangs in a drop from the spoon and coats the

aron rom the spoon and coats me spoon evenly.

After the jelly is cool, pour melted paraffin over to the depth of a quarter of an inch. When the glass is opened the wax can be washed and opened the wax can be washed and saved to use again. It is a good thing saved to use again. It is a good thing to use the wax even with the tin covers. Nothing but tin withstands the lawages of house mice. Glasses may be covered with paper dipped in white of an egg. Some like to place a small paper dipped in brandy over the jelly and then cover.

CURRANT JELLY .- Make as directed for all jelly or use this way. Heat the juice to boiling and take an equal the juice to boiling and take an equal amount of hot sugar. Stend near the glasses and stir till the sugar is dissolved. The jelly forms at once and everything must be ready.

CRAB APPLES.—Follow general directions.

tions, using half as much water

GRAPE JELLY.—Two jellies can be made, differing in color and taste, by pulping the berries and making the skins into one jelly and the pulp into the other. A teaspoonful of lemon juice to a pint of grape juice will assure jelly which will not candy. A mere trace of vegetable-pink color ing matter will give as pretty a color as crab apples. Indeed the jelly from the pulp can scarcely be told from crab apples. Indeed the jelly from the pulp can scarcely be told from crab apple jelly.

GREEN GRAPES.—Use before they

RHURBARB JELLY .- Wash but do not pare. Use half a cup of water to start cooking and cut in thin pieces. Put a few apples with the rhubarb. If the color is not pink enough add red skins or a speck of vegetable color. BLACKBERRY JELLY.—At the first of the season they will make jelly but it is best to use a few apples when very

CHERRIES AND CURRANTS .- Use fourth currants

RASPBERRIES AND CURRANTS. — Use one-third red raspberries with red currants. GOOSEBERRIES. - One-half water to cook berries.

TOMATO JELLY. - Use the yellow varieties and put the juice of one lemon to every pint of tomato juice. QUINCE JELLY.—Use any proportion f apples and quinces. Equal parts of apples and quinces. Equal parts give satisfaction. Pare and core the quinces and also the apples and use the pulp for marmslade. PEACHES.—Very uncertain because as sold in cities they are over rigor for fermentation has set in. Lemon

or fermentation has set in. Lemen juice is recommended.

PLUMS.—Use them under rine.
Closely related to the jellies are the fruit syruns. The process is the same as for jelly except that half as much sugar is used. They are fer flavoring ices and puddings. ...

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Home Canning of Vegetables

Following are given directions for the more common vegetables, but the housewife can add to these at will. The principle of vegetables, but the housewife can add to these at will. The principle of sterilization is the same for all meats, fruits and vegetables.

STRING BEANS.

Select young and tender beans, string them, and break them into short lengths. Pack firmly in the jar. cover with cold water, and add a tender spoon of salt to each quart. Put on the rubber and top and boil for one hour on each of three successive days, as directed under "Corn." A small of salt of the successive of t pod of red pepper placed in the bottom of the jar will give a delightful flavor to this vegetable. EGGPLANT.

Pare the eggplant cut in thin slices, and drop in boiling water for 15 or 20 minutes. Drain off the water and pack the slices in the jar. Cover and pack the slices of eggplant are pliable and may be taken from the jar without being broken and either fried in bread crumbs or made into pudding and baked. made into pudding and baked

Although beets will keep in the cel-Although beets will keep in the cel-lar over winter, it is very desirable to can them while they are young and tender, as the mature beet is apt to be stringy and lacking in flavor. Wash the young beets, cut off the tops, and put them in boiling water for about an hour and a half, or until they are thoroughly cooked. Take off the skins, cut in thin slices, and pack in-to the jars. Over with water and skins, cut in thin slices, and pack in-to the jars. Cover with water and sterilize in the manner previously de-scribed. If a mild pickle is desired, make a mixture of equal parts of water and good vinegar, sweeten to taste and instead of water cover the beets with this mixture.

OKRA OR GUMBO This is a vegetable worthy of more extended culture. Although extensively grown in the south, it is comparatively unknown in the north. It paratively unknown in the normalist paratively unknown in the normalist easily kept and makes a delicious is easily kept and makes a delicious is easily kept and makes a delicious young and tender pods, cut them in short lengths, pack in the jars, cover with water, and sterilize. Okra is used for soups or stews.

used for soups or stews.

Cut the vegetable into small blocks, pack in the jars, and cover with water. Add a teaspoon of salt to each quart and sterilize. It is some times preferable with this vegetable however, to pare off the skin, boil or steam until thoroughly done, mash them, and then pack in the jars and sterilize. If canned in the latter way sterilize. If canned in the latter way it is advisable to steam them for an hour and a half, instead of for an hour, on each of three days, as the the the properties the jar very slowly. it is absolutely necessary that the interior of the jar should reach the

MENDETS

temperature of boiling water. A jar will usually hold about twice as much of the cooked vegetable as it will of the uncooked.

The writer has found that a mix-ture of corn and lima beans, or succoture of corn and lima beans, or succo-tash, is one of the most difficult things to keep. This furnishes one of the very best mediums of bacterial growth; so extreme care must be tak-en in the process of canning. It is en in the process of canning. It is

activished to gather the corn and beans carly in the morning and prepare and sterilize them in the manner already described. As with summer squash, it is best to boil for an hour and a half, instead of for an hour.

VEGETABLE ROAST

A rather unusual dish for the winter may be ade by canning a mixture ter may be ade by canning a mixture of vegetables. Prepare corn, lima beans, tomatoes, string beans, observations squash and eggplant as you would for canning separately. Mix these in squash and eggphant as you would for canning separately. Mix these in varying proportions, letting the corn and lima beans predominate. Add two or three medium-sized onions to each quart of this mixture and run all each quart of this mixture and run and through a food chopper in order to mix it thoroughly. Pack into jars and sterilize. In preparing for the table mix with an equal volume of bread crumbs, a piece of butter the size of a walnut, and one egg; season to taste with mononer and salt, and to taste with pepper and sait, and bake in a round baking dish until brown. Cut into slices as you would a cake and serve hot with a drawn butter sauce.

Corn, okra and tomatoes, mixed in qual proportions, may be canned in this way as a soup stock.

this way as a soup stock.

Jar Now To OPEN A JAR.

Jars of vegetables are sometimes hard to open, unless it is done in just the right way. Run a thin knife unter the rubber, next to the jar, and press against it firmly. This will usually let in enough air to release the resource on the ton. In case it does the in enough air to release the pressure on the top. In case it does not, place the jar in a deep saucepan of cold water, bring to a boil, and keep it boiling for a few minutes. The jar will then open easily.

******** The Upward Look ****************

A Promise of Victory

For sin shall not have dominion over you; for ye are not under the law but under grace.—Romans, 6:14.

The promise contained in our text The promise contained in our texts is one of the most glorious contained in the Scriptures. It is a promise of victory over our sins. They are not to have dominion over us. When, in They are When, spite of our best endeavors, our wicked pride has led us to plume selves in our own imaginations or before others; when our ugly tempers have leapt up in us, leading us to say unkind, unsympathetic or cross words; when our shameful lack of faith has led us to become discouraged and hopeless over the difficulties that confront us and to forget that God can do for us what we cannot do for ourselves; when our love of self has led us to over-ride and ignore the rights or desires of others in order

that we might gratify our own selfish motives; when these or any other of the sins that so easily beset us have gained the mastery, and we feel in despair of ever overcoming the delects that we feel are ruining our characters and cutting us off from God, then we should remember this verse, this promise and others like it, Wh.

and be gind.
When we have sinned and feel
downcast, we should recognize that
the fault is ours. God is more willing the fault is ours. God is more willing to give us the victory over our sins than we are to gain it. He requires, however, that we must show that we really do want the victory. The only way we can do this is by asking for it—by praying. The intensity of our desire will be shown by the earnest-tess of our prayers. Spasmodic, halfhearted prayers will bring temporary, partial victories. Persistent, earnest partial victories. Persistent, carnest prayers will bring definite, sure re-sults. Paul has said, "I can do all things through Christ which strengthe-eneth me,"—(Philippians 4:13.) So can we. But we must ask Christ to strengthen us, we must ask Christ to can we. But we must ask Unrist to strengthen us, we must ask Him with our whole hearts, we must ask Him often, and we must have faith that He will keep his promises and give us the victory.
"To him that o'ercometh, God giveth

a crown;

a crown;
"Through faith we shall conquer,
though often cast down;
"He who is our Saviour our strength will renew;

Look ever to Jesus-He will carry you through.

Will not some of the readers of the Upward Look send for publication a verse each that has helped them, stating briefly the circumstances? Your help in making this department interesting and helpful is desired.—I. H. N.

... System vs. Drudgery

System is indispensable in house-keeping, but one's point of view is almost as important. When house-keeping means only an endless suckeeping means only an endless suc-cession of meals to prepare, floors to sweep, and clothes to iron it is pretty sure to become drudgery. Pride in a home, and joy in the homemaking, lighten the labor and the satisfaction of doing one's work well makes house-keeping a pleasure. When one's every-day duties are done only become keeping a pleasure. When one's every day duties are done only because they must be done, life becomes a grind. The woman who feels that her house-The woman who feels that her house-keeping deprives her of pleasures rightfully hers will dread her daily work. But the woman who considers how and her children her lifework will find pleasure in the duties they present. She will not allow herself to become a drudge because by sel for the beautiful the beautiful selection of the beautiful selection. We will have been to be deep the beautiful selection of the beautiful selection. The beautiful selection is a selection of the beautiful selection of the beautiful selection. The beautiful selection of the bea less than the care of her home. She will remember that it is well to keep abreast of the times and will learn to shirk wisely. By making housekeep-ing her aim, she will lose its pleasure, making it a means to an end she will find in its great satisfaction.

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wide with 9 yds of banding.

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PINAFORE BODICE WITH FITTED GUIMPE 6357



The pinafore be The pinafore bodice is one of the lat-est developments of fashion and is ex-ceedingly attractive. In the illustration it is made of white line with threads of blue and is worn over a guinpe of worn e of over a guimpe of tucked net, but foul-ards and pongees are so treated quite as well as linen and the simpler washable

The sampler management of the sampler of the planton of the planto MISSES' STRAIGHT PLAITED SKIRT



ES' STRAIGHT PLAITED SKIRT
WITH POINTED YOKE 6400

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portions and the
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The quantity of material required for the 16 year size is 7 yds 27, 4½ yds 52 in wide with 1 yd 27 in wide for bands.

for bands.

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INFANT'S DRESS 6408 The dress is made with front and back portions, which are tucked and joined to the shaped yoke, and the seam is concealed by the trimming. The sleeves are full and gathered into bands, and a little frill fin-ishes the neck edge.

Material required is 3% yds 24, 2% yds 32 or 2% yds 44 in wide with 3 yds of embroidery, 4 yds of banding, 3%

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Consider done; some big ed. The barley short in the s Oats are a fair ones will be ligof dry weather some time. It pastures and n root crop is loo tending to ma would be much crop is looking gives promise of not much doi: fat cattle being fat cattle being feeding cattle tr are a little easi hard to get. V farmers being at one man losing G. C. S. BRA

FALKLAND. have helped corr is looking well a ear. Turnips and ahead fine and ear. Turnips and ahead fine and be an abundant well over with the and peas. Peas was a large quantity and and is yielding an acre. Buyers for the new cre threshed brought re poor and ow there is not much fields. Plowing is is hard and dry b is being prepared are still selling a



PRINCE EDWARD ISLAND

PRINCE CO., P. E. I. PRINCE CO., P. E. I.
RICHMOND.—Haying in over. The crop
was somewhat light but all was well harvested in first class age, under ideal
weather conditions. Heat the second of the class
weather conditions. Heat the class
of grain and root crops, the latter of
of grain and root crops, the latter pecially, as turnips were suffering from
drought. Wheat is not up to the standard. Oats are good.—above the average.
Pastares are looking up after recent rains.
Cooperative darying is prosporous in this Co-operative dairying is prosperous in this district.—J. D. McI.

ONTARIO PETERBORO CO., ONT.

LASSWADE.-All kinds of grain will be LASSWADE.—All kinds of grain will be up to the average. Hay was the powerst crop that we have had for years, in pro-sone meadows were not cut at all. Po-tations promise to be a bumper crop. Ap-tacles promise to be a bumper crop. Ap-have are yearse and what few we have are yearse and what few we have a proper production, are doing well; cowe a few production, are doing well as a good price which pleases the fermers— I.W.

GALWAY.—The recent dry weather is hurrying the harves along and cutti g has begun at time of ording (Aug. 4th). Peas seem to be a good reting the slow in ripening. Oats are only medius slow in ripening. Oats are only medius of the most cases they are sufficiently tail, but are quite thin on the ground. Potatoes are making a good showing and may be remaking a good showing and may be remaking a good showing of price and stockers are selling from a price, and stockers are selling from a good stockers. The selling from a good stockers are selling from a good stockers and a good stockers are selling from a good stockers. GALWAY .- The recent dry

WATERLOO CO., ONT.

WATERLOO CO., ONT.

AYE.—Yarmers are busy with the harvest.

Comparishe threshing has been done; so he had so he wheat are reported. The bariey and early with the late sowed one will be light in the strain on account of the weather which has continued for a day weather which has continued for the same and th crop is looking good and healthy and gives promise of a good crop of cars. There is not much doing in the eastle trade, the fat cattle being sold, and the fat cattle being sold, and the feding cattle trade has not started. Hogs are a little easier and buyers and them hard to get. Very few sheep are kept, farmers being afraid of the dog nuisance, one man losing eight head recently.

BRANT CO., ONT.

FAINTAND. A few showers recently have helped corn and root erors. Corn is looking with the looking and the looking to car. Turnips and mis just beginning to car. Turnips and mis just beginning to car. Turnips and with penty of the looking will be an abundant erop. Harrest is pretty and of the looking to the dry weather so not much aftermath on the hay there is not much aftermath on the hay the looking the lo is being prepared for fall wheat. Hogs are still selling at \$8 a cwt., live weight.



Men should look for this ag on Chewing Tobacco. It guarantees the high quality of

The Big Black Ping.

OUR FARMERS' CLUB

WELLINGTON CO., ONT.

ELORA. — The rain has hindered harvest coverations somewhat and some invest coverations somewhat and some invest coverations somewhat and some investigation of "rust" pro to be seen since, but on five the coverage of the continuous properties of the continuous properties of the continuous properties of the coverage cutting is an early all finished. Fall wheat as shown in quality agreements in magnificent, both in quality agreement properties are up to instruct of the coverage of the covera

MIDDESEX CO., ONT.

MIDDESEX CO., ONT.

NILESTON.—Cows are milking first class, the frequent showers having freehend the pastures nicely. The cheese factory the pastures nicely. The cheese factory what miles and the control of the pastures nicely. The cheese factory what miles are considered to the control of the control of

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

\$7.85 a Cwt. OR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

HULL, - BRANTFORD

GOLSPIE—We have been fortunate in having several showers throughout the season. Oats are better than perper than p

A COMING HOLSTEIN CENTRE

A COMING HOLSTEIN CENTRE

During the past five years a large number of the farmew Tree Edward County, Ont., have combride the part of the

Renew Your Subscription Now.

OUR NEW PREMIUM CATALOGUE

We have just issued a new premium catalogue which will interest you. More than 100 splendid premiums are listed in this catalogue. It is illustrated, and full descriptions are given of the various premiums. Write for a copy. You will be surprised when you see the splendid articles we are giving away. Send us a postal card and the catalogue will be sent you by return mail. Full instructions are given as to how to secure these premiums. Circulation Department, FARM AND DAIRY, Peterboro, Ont.

HEPWORTH. — We are having very warm weather, which is ripening the grain very fast. Grain is not so good as it appeared some time ago. The straw is very pastered some time ago. The straw is very pastered some time ago. The straw is very high and barley are better than the oats, and barley are better than the oats, and barley are better than year; it is selling at from \$M\$ in time of \$M\$ in the paster of \$

GREY CO., ONT.

RAVENNA—Hay was a very light report.

The late raits were quite b-nedeal the growing crops. Grain has filled well, which means much to the farmer. All kinds of grain are looking well although we do not expect as good a crop as last year. Small fruits, such as currants and years, small fruits, such as currants and cooking are year bentiful. Pastures have he was a constant of the contract of the c

HURON CO., ONT.

HURON CO., ONI.

BIYTHI—Again we hear the hum of the threshing machines as we drive through the country. Some was drive through the country. Some was been threshed and is turning out while oats and barley are somewhered, while oats and barley are somewhered with the country for the country for the country is the country in the country in the country is the country in the country in the country is the country in the country in the country is the country in the country in the country in the country is the country in the country in the country in the country is the country in the country

but in quite an acreage of roots also. The ohiedy to the potato crop, which at preparties have dried up a great deal. Most
sent promises a record yield, if the tops
armers feetheir cows. We feed affalla,
and find that ha improved the flow of
milk very much better forey rheap feed and
wery much better forey rheap feed and
every much better forey rheap feed and
cover.—A, M. M.

BRUCE CO., ONT.
HEPWORTH. — We are having very
warm weather, which is ripening the grain
very fast. Grain is not good as it apvery fast. Grain

STRATHCONA CO., ALTA.

STRATHCONA CO., ALTA.

BUINT LAKE—Dairying in the 'sunny province' still continues to prosper.

The old cow is helping to produce the and she enables the dairyman to the bills promptly. The make of butter is able to the strength of the still still specially. The make of cheese is considered by darger than any previous year up to darger than any previous year up to darger the stories turned out more cheese in the Santonies turned out more cheese in the Santonies turned out more cheese the santonies of the sant made all last season. Prices are good, and returns are satisfactory to the patrons. The weather is all that could be desired and there is the promise of an abundant harvest. Fall wheat and barley are just ready to cut. Oats are coming on fine. Alberta weekers.

THESE FIELD GLASSES FREE

How often a farmer can make use of a good field glass. He sees something at the good field glass. He sees something at the walking the fram but cannot make out walking the length of the farm if he has a walking the length of the farm if he has a building the seed of the farm of the last of the seed of the



These glasses are just as illustrated above Signal Service, Day or Night, Field of Marine. Leather body, enamelled mounts and draws, complete with sunshade, leather case and shoulder straps. Magnifies about five times.

Not times.

Sond us a club of only Ten New Subscriptions each taken at \$1.00 each and the glasses will be sent you Free of Cost. Write for some sample copies and get your neighbours to subscribe.

Circulation Department

FARM AND DAIRY PETERBORO - ONT.

Note—We have a large number of other useful remiums to offer in return for securing New Sub-riptions. Write for our New Premium List.

Toronto, Monday, August 23, 1999.—Trade few days and the market is firmer at 85c shows signs of considerable expansion. to 90c a bushel for Ontarios. Custom house receipts are increasing, a Poreign beans are about the only ones very good indication of a revival in trade. very good indication of a revival in trade. For several months past the duty paid on goods coming into Canada shows considerate of the several months of 1908. Receive corresponding months of 1908. Receive and the contract of 1907, Money is in greater demand. Call loans rule at 4 to 4%; per cent. and discounts on commercial paper at 6 to 7 per cent. Loans on mercial paper as 6 to 7 per cent. Loans on real estate continue at about 6 per cent.

WHEAT

What is to be the price of wheat two months, four months, or six months hence, is what is puzziing every wheat holder just now. Last week the farmers of Ontario received much gratuitous advice as to wheth er to hold their wheat or not. One re-presentative of a big milling concern which handles largely western wheat strongly adhandles largely western wheat strongly ad-vised the Ontario farmer to hold. An-other miller, who claimed to represent the Ontario millers' interests, strongly advised the other way. As to which advice is best for the farmer to follow are not pre-pared definitely to say. His best plan is to avail binned! of all the information he can get regarding the supply and demand and form his own conclusions as to whether he shall hold or sell. A general survey of the situation leads one to the conclusion that market conditions are very little different from what they were when iast year's crop was harvested. America has more wheat from what they were when last year's crop was harvested. America has more wheat than last year while some European countries have less. A summary of the situation in the Chicago Evening Post based upon conditions on August tai last, states that the world's stooks of wheat on that date were the smallest for seven years past, being 79,820 bushels on that date were the smallest for seven years past, being 79,820 bushels on the last was considered to the seven of the week previous. On Friday at Winnipeg October wheat closed at \$9% can the cember at \$9%. The local market is quiet, farmers being either too busy to market their wheat or are inclined to hold for their wheat or are inclined to hold for their wheat or are inclined to hold for higher prices. Dealers here quote new On-tario fall wheat at 95c to 96c outside. On Toronto farmers' market fall wheat rells at \$1 to \$1.02 and goose at 96c a bushel.

COARSE GRAINS

The oat market continues on the easy side. While the Ontario crop is on the light side, the United States, and the Canadian west will have a high groun to warket dian west, will have a big crop to market. Buyers of the higher priced oats of a couple of months ago are getting nervous. There has been a drop of 15c to 16c a bush-el in the price of western oats within the et in the price of western oats within the past month or two. Dealers here quote Ontario oats at 48e on track Toronto and 44e to 45e outside. New Ontario oats are quoted for first shipment at 38e to 39e onti-side and new barley at 55e outside. On Toronto farmers' market oats soil at 56e to 52e, barley at 69e and peas at 50e to 55e a bushel.

FEEDS

The demand for mill feeds keeps up and The demand for mill feeds keeps up and there is a firmer feeling though prices show no change. Dealers here quote On-Maritora at \$22 and shorts at \$34, and Maritora at \$22 and shorts at \$35, and Maritora at \$22 and shorts at \$35 to \$24 a ton in car lots on track Toronto. Corn values keep up notwith-standing values of a big American crop. American No. 2 yellow is quoted here at \$79 to 1956 and Canadian at 76 to 76 a bushell in car lots on track Toronto.

HAY AND STRAW

HAY AND STRAW

Owing to the Quebec hay crop turning out better than expected hay is lower in Montreal. Now baied hay is quoted there at \$11.50 to \$13 for No. 1 and \$31 to \$11.50 a ton for \$8.00.2 in car lots there. Prices at the price of t

Foreign beans are about the only ones on the market now. The market continues firm at old quotations.

EGGS AND POULTRY

EGGS AND POULTRY
Egg receipts have failen off considerably the past week and the market is
firmer and higher. Dealers find it have advanced prices. At Montreal No. 1 stock
sells at 2c to 22½c and selects at 25c to
2c in a wholesale way. Dealers here
there are also to 2c and select at 25c to
2c in a wholesale way. Dealers here
there are a sell at 2c to 2c and a select at 25c to
2c in a wholesale way. Dealers here
there are a sell at 2c to 2c and a sell at 2c
2c a dozen; dressed charge sell at 2c
2c; a dozen; dressed charge sell at 2c
2c; young fowl at 15c to 15c; spring ducks
at 15c to 2c; old fowl at 15c to 11c and
turkeys at 15c to 2c a 1b.

PRILITY

FRUIT

Owing to light receipts all fruit rules steady at quotations. On Toronto fruit market on Friday tomatoes were if any-thing lower than they have been for the past couple of weeks, which was low enough. Wholesale quotations are about as follows Blueberries, \$1 to \$1.25; apples, 20c to 35c; gooseberries, 75c to \$1; plums, 20c to 35c; Canadian peaches, 40c to \$1; and tomatoes, 10c to 25c a basket, thimbleberries, 5c to 7c a box; green corn, 4c to 8c a dozen

DAIRY PRODUCTS

Though the cheese market has ruled on the quiet side during the week prices are firmer and higher than a week ago. On many and the price at the control of t

During the week the butter market was There is more cable inquiry for Canadian butter but prices have advanced on this side so that little is being exported. At Huntingdon local board on Friday creamery sold at 22%. Dealers here reported the market a little easier at the end of the week with wholesale quotations as follows: Choice creamery prints 23c to 24c; choice dairy prints 18c to 29c; ordinary 16%c to 19c and choice tubs at 18c to 19c a lb. On Toronto farmers' market choice dairy sells at 23c to 25c and ordinary at 19c to 20c. at 19c

wool market rules steady. At Mon treal Canadian tub washed fleece is o at 22c to 23%c and unwashed at 15c a lb. At Ontario country points quotations are: Washed, 23c to 24c: unwashed, 13%c to 14%c, and rejects at 17c a lb.

HORSE MARKET

The business doing in horses is very light. There are some western buyers looking for horses, one carload leaving Listowel for Neepawa, Man, early in the week. Outside of this there is no activity and quotations show no change from a weak of the control of the West Toronto, continue light, and not much change is expected in the market situation till after the exhibition.

LIVE STOCK

Prices for live stock were on a slightly ower level last week than the week prev-ous. The poor quality of the large majority of the butchers' cattle offering was responsible to some extent. On the whole really choice cattle sold at about old prices. The run of cattle keeps up for this prices.

prices. The run of cattle keeps up for this season of the year.

The export cattle trade was not quite so active though everything sold readily enough at slightly lower values than a week ago. At the Union Stock Yards on Tuesday there was the usual big run of export cattle. This trade can be said to be for haled hay keep up well here. Quotes to find the control of the

INCORPORATED 1888

The TRADERS BANK

\$6,350,000

pital and Surplus of Canada \$34,000,000

Now is the time to open a Savings Account. Make a good beginning, add to it as the proceeds of the year's work come in, and you will have a comfortable reserve, ready for likely-looking investments or unexpected expenses. \$1 opens an account.

THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

day ten loads of exporters sold at \$5.60 to \$5.85 a ewt.

The butchers' trade weakened conably during the week, especially for infer-ior cattle, of which there were a number on the market. American buyers are buy-ing up fancy butchers' cattle for ship-ment to the United States. Some choice ones sold early in the week for this purones sold early in the week for this pur-pose at 85.5 a cwt. but the ruling top price was not over 85.50, choice steers and heifers selling at 48.75 to 85.55; fair to good at 84 to 84.75; medium at 83 to 84; good to choice butchers' cows at 84 to 84.25; fair to choice butchers' cows at 84.76; butchers' bulls at 82.50 at 84.55 to 85.76; butchers' bulls at 82.55 to 83.50; bologna bulls at 82.25 to 82.50 at 84.50; bologna bulls at 82.25 to

82.50 to \$5.50; bologna bulls at \$2.25 to \$2 a ewt. There is still no activity in the feeder and stocker trade. Any heavy feeders, with considerable flesh on them are bought for killing purposes. Good 850 to 1000 lb steers are scarce and firm. Quotations are steers, 600 to 1000 lbs each, \$3.25 to \$3.90; best steers, 600 to 800 lbs each, \$2.90 to \$3.25; medium light stockers, \$2.50 to \$2.75, and common stockers, \$2.10 to \$2.40 a

The supply of milkers and springers was nore liberal yet all met a fair market. more uperal yet all met a fair market. Forward springers are selling the best just now. On Thursday prices ranged from \$850 to \$66 each with the bulk of the best selling at \$40 to \$50 each. Local milk suppliers who have contracts to fill, are looking for cows, now that pastures are get ting short. ting short.

Under a moderate supply veal calves ule steady at \$3 to \$6 a cwt. There was a big run of lambs last week

and prices fell off considerably from a week ago. On Thursday the highest quo-tations for lambs were \$5 to \$6 a cwt, a drop of 25c from Tuesday's prices. Export ewes sold at \$3.50 to \$3.75 and bucks at \$2 to \$2.50 a cwt.

The hog market shows little change and

last week's quotations hold good. At the city market on Thursday buyers quoted \$7.90 fed and watered on the market here, and \$7.55 f.o.b. at country points. Some selected lots, however, sold at \$8 fed and watered and it was reported that \$7.70 and \$7.75 had been paid at country points for

The Trade Bulletin's London cable of August 19 quotes bacon as follows: "The market is weak and lower under liberal re-ceipts from Denmark. Canadian bacon 668

MONTREAL HOG MARKET

Montreal, Saturday, August 21. — There has been a fair demand for the offerings of live hogs on the market this week, prices ranging all the way up to 88.75 a cwt. for selected lots weighed off cars, mixed lots selling down to 88 and 88.25 a cwt. Beneficher of the Selling to the selling form of the sellin

mixed lots seiling down to 88 and 82.25 a cwt. Receipts were fairly heavy.

The demand for dressed hogs is well maintained and prices are unchanged and steady. Quotations range from \$12 to \$12.25 a cwt for fresh killed abattoir stock.

was no sign of any special activity until Thursday when cables from the other side flooded the market here, many of them flooded the market here, many of them with orders to buy cheese on the lect terms. As a consequence the buyers in the country were given a free hand and a great variety of prices resulted, the mar-kets selling all the way from 11%c to 12%c a b. The latter price was obtained at Brockville where the demand was so keen that the quotation was rasied in a few Brockville where the demand was so keen that the quotation was raised in a few minutes from 11c to 125/c. Even at this price some of the factory men refused to sell in the hope of getting even more money. This price, however, marked the top notch for the week, and is the highest price paid since June for cheese. The mar-price paid since June for cheese. The markets on Friday closed strong with prices ranging from 11% to 12c a lb, the latter price having been paid at Brantford, Perth and other points in the province of The advance in prices is evidently due to

the anxiety on the part of the British dealers to buy August cheese, which are considered of much better quality than the Julys, and as the stocks of cheese on both sides of the Atlantic are comparatively small, and the make in Canada but were this larger than last worr the size. both sides of the Atlantic are compara-tively small, and the make in Canada buy very little larger than last year the sta-tistical position is strong and seems to warrant an advance in prices at this time of the year. It remains to be seen wheth the stopped seems of the state of the search of the stopped seems of the state of the has taken place this week. The make of cheese is steadily increasing as compared with last year and there is every prospect of the present increased output being maintained throughout the remainder of the season. The favorable weather and comparatively high prices have aided con-siderably in bringing this about and now that there is no chance of a serious drought we can look for a heavy fall make of choese.

The market for butter is strong and act ive with a good demand from all sources, especially from the local trade. The deespecially from the local trade. The de-mand for export is comparatively small, but it is sufficient to encourage the deal-ers here, and prices in the country are well maintained, with every prospect of a further advance during the next few days. Finest Eastern Townships' creamery is quoted to-day at 23%c a lb, with ordinary finest at 22%c. Dairy butter is fairly plentiful and is selling at 16c to 19c according

DAIRY FARM FOR SALE

AT A BARGAIN

Lavigne Station, Graham, Que., Post Office, 112 acres rich clay land, new house furnace, hot and cold water, silos, barns.

JAS. J. RILEY, JR.

August a COOPE

Cor Gentlemen,for several tured by anot time. We find deed, equally a as a repellent, disagreeable se nose. We spra fore milking, washout a minut the cows comfo K. White. ommen

> AY Farm and gan of Ti Breeders' As members ar Members of vited to ser Ayrshire bre this column

STADACE Since our last year ago we fir Transcontinenta ed. This is built lage from the h It is nearly a r

Well

Y Pigs

WILLIAMS

We des several yo Berkshire registration Yorkshires Whites. M Write :-

Circu FARM / PETERBO If for Fall delive

FOR SALE AND TWO CENTS A WO

BUTTER WRAPP write McMullen don. FOR SALE.—Four farm and stock Fruitvale, B.C.

Fruitvale, B.C.

WANTED—Married
by the year. To
ber ist. Must be
required.—J. E.

WANTED—One or
Must be young a
coming in in At
Lakefield, Ont. WANTED-THREE

years, able to m ence necessary. a year and boar ise Bridge, Winn FOR SALE.—New y in good dairyin tory separately acres land. Fac cheap as owners Mary and Agnes Ont. Atwood Sta

chase several you pigs, for immed eligible for regis Write with pric shipped to, Circ and Dairy, Peter

COOPER'S FLY KNOCKER

COOPER'S FLY KNOCKER
Gentlemen,—I have been using your Fly
Oil for several days on part of our herd,
and have used another Fly Oil manufactured by another company at the same
time. We find your Fly Oil very good, intime when the company at the same
time. We find your Fly Oil very good, intime. The control of the control of the control
as repeals semant is does not give any
disagreeable semant of the control
fore milking, with a band sprayer, taking
about a minute to each cow, thus giving
the cows comfort and us profit. (Sgd.) G.
K. White. market market o

AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Ganadian 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

STADACONA STOCK FARM

STADACONA STUCK FARM
Since our last visit to Cap Rouge over a
year ago we find the great bridge of the
Transcontinental Railway almost completed. This is built immediately ear the village from the high ground over the vidit is nearly a mile long and several hun-

Well DRILLING

WILLIAMS BROS., Ithaca, N. Y.

YOUNG **Pigs Wanted**

We desire to purchase several young, pure bred Berkshire pigs, eligible for registration. Also a few Yorkshires and Chester Whites. Must be A 1 stock. Write :-

Circulation Dept.

FARM AND DAIRY

PETERBORO - ONT.

If for Fall delivery, kindly state when to expect delivery

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

BUTTER WRAPPERS.—If you want any write McMullen Printing Company, London.

FOR SALE.—Four year old ginseng garden, farm and stock. Terms, address "L," Fruitvale, B.C.

WANTED-Married man to work on farm by the year. To commence work Novem-ber 1st. Must be steady. Good references required.—J. E. Waring, Zenda, Ont.

the size of Ayrshires have exceeded that of the control of the con in Quebec Province but a number went to Ontario, and we are pleased to learn that Mr. Langelier had a lot of pleased custom-ers. He has sent out more cows from Re-cord of Performance cows than any other breeder as he has entered more cows and had more register with good records than any other.

any other.

As an extended write up of Stadacoms
Farm appeared in our issue of april 8th
last (Dairy issue) we refrain from particularizing at this time further than to say
that we found the imported cock bull,
"Morton Mains Penryn" -25556 blick in-"Morton Mains Peur-morted cook built."

"Morton Mains Peur-morted cook built."

"Morton Mains Peur morton was a main proved so much since we last a main from the morton was a morton with the morton was a morton wa

younger sire.

Of the cows and heifers in the test at the time of our visit, Daisy of Westland, 3 years old, had given eight of the milk with another month to run. Isaleigh Miss Sandy had given as a two year old 6744 lbs. milk with another few weeks to her credit. Her milk with alaleigh Clorinda. had 7233 dy had given as a two year old 674 lbs.

milk with another few weeks to her credit.

Her mate. Isaleigh Clorinda. had 7231
lbs. of milk to her credit, Miss Orila had

697 lbs. Burnside Brown Queen, with only

seven months over had 696 lbs. Isaleigh

Jessie, another heifer, gave in March 1135
lbs. milk with her mate, Jessies of Gapel
the gave in the same month 1148 lbs. Ali
the property of the control of the control

her dependent of the control of the control

her dependent of the control

nonstrating their persistent miking quali
ties. Again some of the Stadacona Ayr
shires are high teaters. Isaleigh Miss San
dy testing an average of 5.2 per cent.; Isa
leigh Clorinda, 4.5, and Stadacona Silva
Queen, 476 per cent. of fat. Alameda of

Queen, 476 per cent. of fat. Alameda of

Danville the first cow to qualify in the login Ciorinan, 4.2, and cleanacton discounting of the Alameda of Danville the first cow to qualify in the Record of Performance test, is still to the Record of Performance test, is still to the won 12 prises grand work. This herd won 12 prises grand work. The best won 12 prises grand work below the billion is strong competition, besides the Silver Medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the best dairy herd discounting the silver medal for the si

Silver Medal for the best dairy herd dis-play.

The following are some of the animale purchased from Mr. Gouin Lessnescock Princess May (Imp.) Kirkland Stonechat, Garclaugh Snowflake 3rd, with a record in Scotland of 8059 lbs, milk testing an average of 4.2 per cent, fat in 34 weeks, Monkland Pancy, Lessnessock Snowdrop and Fanny, Barcheskie Happy Lass, Barge-noch Heather Bell 2nd, besides a number of others all imported. So we see here is some of the finest blood ever imported from Scotland.

by the year. To most the work of rarm but years, and the years, and the steady, Good refused the years, and the steady Good refused the years, and the steady Good refused the years, and year In Clyd sdales the imported stal ion Gart

dved feet in height. Extensive improvements have been made by Mr. Gus A. It he herd of Lord Rosebery and the other Langeller, Norsy how to manage a stock and ram, in the erecting of or distance have a continuous state of the herd of Lord Rosebery and the other two are Ontario bred. Our friend, Mr. Langeller, knows how to manage a stock of the distribution of the extensive business being worked up by the enterprise of its proprietor. It is a superior herd of Ayrshires have exceeded ithat of other of Ayrshires have exceeded ithat of the first herd of Ayrshires have exceeded ithat of the first herd of Ayrshires have exceeded ithat of the first herd of Ayrshires have exceeded ithat of the first herd of Ayrshires have exceeded ithat of the first herd of Ayrshires and the first herd of the herd of Lord Rosebery and the other two are for the first herd. The herd of the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the herd of Lord Rosebery and the cher two are for the h all his farming operations the possibilities there are in farming by puttingsibilities there are in farming by puttingsibilities principe; into practice as they apply to agriculture. At Stadacona we have a mode! farm operated by a mode! husbandman.—W. F. S.



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The heavy-gauge Pediar Billet Iron sections, deeply corrugated and locked together without boits or rivets by our compression triple rib (this rib is flat-not corrugated), make a culvert that will stand enormous crushing strains, and neither give nor spring. A thin can be said to top is all the protection and section to the said that the control of the said of the fic; and no special precautions need be observed in laying it,-it will stand what no other culvert can.

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