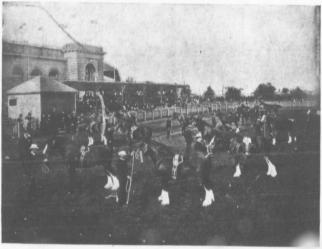
ANADIA

PETERBORO, ONT.

SEPTEMBER 2, 1908



CLYDESDALE STALLIONS AT THE CANADIAN NATIONAL EXHIBITION

The holding of the Canadian National Exhibition at Toronto opens the fall fair season in the Eastern Provinces. This The holding of the Canadian National Exhibition at Toronto opens the fall rair season in the Eastern Provinces. Inits great exhibition this year promises to surpass all previous efforts. Its live stock exhibits are its main feature. This shows the important position our agricultural industry holds. As this season, on the whole, has been a prosperous one for our Canadian farmers, and as they are better off than they ever were before, our fall fairs this year should be larger and better attended, and, as a people, we should be deeply thankful for the mercies that we have received.

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MONTREAL and QUEBEC

HANDLING MACHINERY TOOLS ford Woodloo?

HUDSON, N.Y.

Our Scottish Visitors

The Scottish Prisitors
The Scottish agriculturists who are
touring the Dominion under the auspieces of the Dominion Department of
the Interior, and of the Dominion
Department of Agriculture, on reaching Ontario spent three days in Ottawa
where they were met by a representative of The Canadian Dairyman and
Farming World. They are a striking
Farming World. They are a striking
or and have taken or practice of armiers and have taken or agriculture in
the development of agriculture in ers and have taken some leading part in the development of agriculture in their native land. Strong of frame, conservative in character and keen in intellect they are a high type of the

race.
Our visitors are being conducted through the agricultural districts of Canada and are being given every facility for observing all kinds and classes of farming. They travel in two luxurious hotel cars leased by the Canadian government from the Pullman Company. Mr. J. A. Ruddick, Dominion Dairy Commissioner, travelled with them through Western Ontario.

Ontario.

To interview so large a body in the short time they were in Ottawa was impracticable, as well from the point of printing space as from that of time for one might fill many issues with the ideas of such men. Our representative, therefore, first had a chat with the secretary of the commission, J. M. the secretary of the commission, J. M. the secretary of the commission, J. M. the secretary of the commission of the second printing of the second printing t

"Naturally," he said with an accent that Scotia's free air had engendered for generations, "see do not like to provide the said with a second seed of the said with the said with the said part of Canada. But from what we have seen we have been much impressed with the greatness of the agricultural resources of Canada. In Prince Edward Island, for instance, we were greatly impressed with the large area of soil that is specially adapted for potato raising. Much of adapted for potato raising. Much of the best cooking types of that vegetable. We have such soil in Scotland and potatoes raised upon it bring five dollars a ton more than those raised on other kinds of soil." "What do you think of our system of agricultural education?" asked our representative. MUCH IMPRESSED

of agricultural education?" asked our representative.

"What we have seen of it." Mr. Hodge replied, "has been most interesting. Your agricultural schools and colleges are doing splendid work. We consider the Macdonald College a wonderful institution. There is nothing like it in our country. Everything that is needed for auch an institution seems to be there. It is too early yet to say what part it will play in the development of Canada, but to ludge by the carnestness of nursons. judge by the earnestness of purpose of those who direct it we believe that it will exert a vast influence upon the agricultural life of the country."

DAIRY FARMERS TALK

Mr. Hodge introduced your correspondent to two members of the dairy committee of the commission, Edward E. Morrison, a noted dairy farmer and James Dunlop, a noted breeder of

seem to be the product of all the dairy breeds upon earth. A great deal might be done by grading up the herds and sticking to some such deep-milking breed as the Ayrabires. Grading up might be done by milk tests for fat and weight. This is much more easily done than is generally supposed to the suppose of the suppose of

NOTED MEMBERS OF THE PARTY
Among those who are guests of Canada on this trip are: W. Bruce, B. Sc.
M.A., J.P., farms 6000 acres, breeder of Cheviot sheep; W. Bruce, B. Sc.
Agriculture; J. McGlutchen Dobbie,
J.P., director of East of Scotland agriculture; Geo. A. Ferguson, director of Scottish Chamber of Agriculture; Geo. A. Ferguson, director of Scottish Chamber of Agriculture; Geo. A. Ferguson, director of Scottish Chamber of Agriculture; Geo. A. Ferguson, director of Scottish Chamber of Agriculture and breeder of Clydesdales; Ian A. Forsyth, tenant farmer of 376 acres; R. S. Gibbs, M. B., C. M., J.P., medical health officer for of Lagrangian and the state of NOTED MEMBERS OF THE PARTY West of Scotland Agricultural Conege, teacher, experimenter and author. May their trip be a pleasant and profitable one is the earnest wish of all our Canadian farmers.

Tax the land and not improve-ments, if you would see the farmers improve their buildings. The present method of taxation is not by any means fair.—Alex. Anderson, Peter-

James Duniop, a noted breeder of Ayrshires.

Their views upon our Canadian dairy interests were mutual. Purposely they were asked if they had noted any matters in which Canadian dairymen in the east might improve their methods and their profits.

The methods and their profits were the means of introducing and would profit by it, by the extra manuring and would in return give larger crops. More winter dairying would also be the means of introducing more advanced methods of feeding.

"There is another point of great importance," Mr. Dunlop went on "and that is that the herds we have seen in the land and not improvements improve their buildings. The present method of taxation is not by any means fair.—Alex. Anderson, Petermethod of taxation is not by any easy for a fair five profit of the composition of the composition of the profit of the profit

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AGRICULTURE, THE KEYSTONE OF CANADIAN PROSPERITY

Vol. XXVIII.

FOR WEEK ENDING SEPTEMBER 2, 1908

No. 42

BREEDING AND MANAGEMENT OF HEAVY DRAUGHT HORSES

R. E. Gunn, Manager, Dunrobin Stock Farm, Ontario Co., Ont.

Heavy horses should be bred more extensively. In breeding use only the best sires obtainable. If the resulting filly is a better individual than her dam keep her in the stud and sell the dam.

HE breeding of draught horses has been strongly advocated by a number of writers of late. Truly there are many reasons why the heavy draught is the best horse for the farmer to raise. The docile temperament of most heavy draughts, the ease with which they are broken to usefulness, the early age at which they can be worked, their splendid working ability, their high average fecundity, and the ready market awaiting them, are their chief recommendations

To breed successfully a man must first choose the breed best adapted to his personal likes and the market he aims to supply. This article deals only with that most noble breed, Clydesdales, a breed which has proven eminently satisfactory to Ontario requirements.

THE FIRST ESSENTIAL

To the farmer the first step is to procure a good mare. Small scrub mares of indiscriminate breeding, though often good slaves, are seldom good brood mares. If a man has not a pure bred he should have a mare possessing the general characteristics of the breed he intends to raise. If the mare has a few crosses of pure bred sires, so much the better and if so he should keep to that breed that the crosses represent, and should let no glib-tongued stallioner, or a lesser service fee cause a deviation into the paths of cross breeding. Such paths have been proven by dear experience to be the ruination of horse breeding.

The next consideration is to be sure the mare has no hereditary unsoundness. It would be better to leave horse breeding to your neighbor and to buy your work horses than to breed horses cursed with any of the hereditary ills to which horse flesh is heir. Ringbone, spavin, curb, heaves, roaring, ophthalmia and weak feet,

are most serious. The practice which is much resorted to of breeding mares physically unfit for anything else should be discouraged in every way possible.

USE THE BEST SIRE In selecting a sire, get the best you can, even if he be not as convenient as one of less merit, and even if he be stood at a higher service fee, remembering that the difference in resulting foal, will more than pay for the inconvenience and increased outlay. In making

your selection con-

sider rather the foals a horse is leaving than the individuality of the horse, for many first class show horses are but indifferent breeders.



A Typical Clydesdale Stallion From the Dunrobin Stock Farm owned by D. Gunn & Son, Ontario County, Ont.

First consider the quality of the horse, then the size, Clean flat bone with silky hair, no "greasiness" or "neatness," pasterns of medium obliquity ending in a large hoof head which in turn expands into what a Scotchman calls a "foot like a tub" is what we want. Then, too the constitution must be considered. A prominent breast, strong shoulders laid well into a deep chest, surmounted by a good crest should appear behind a pleasant countenance. Strong loin muscles, a short back, deep, well sprung ribs should connect squarely formed, powerful croupe and haunches to the pleasing fore-quarters. Gaskin muscles should be prominent, while the hock should be strong, angular and free from any approach to puffiness. In action, a stallion should first of all be the embodiment of good spirits. His walk should be clean and sprightly. His trot should be expressive of control, square action in front, trappy action from the side, and carrying the hocks well together behind without any tendency to interfere. In color, a good individual is never a bad color.

Trouble is sometimes found in getting mares in foal. But this is usually overcome by some one of the many practices known to all first class grooms. It might be said, however, that a horse during a heavy season is not so likely to impregnate a mare, "hard to catch" as a horse serving but a few mares.

An in-foal mare may be worked until the day she foals if she is properly handled.' If the mare has heavy work to do work her easy. Do not make her back heavy loads or strain herself in any way. It must be remembered that there are

now two lives to be supported, so her feed should be nourishing and properly balanced. In-foal mares, doing light work, fed on cut, unthreshed oat sheaves should be in splendid condition in the spring. Mares doing heavy work must be fed in proportion, including laxative ingredients. such as turnips and beans.

NEAR THE FOALING TIME

When the mare comes near her foaling time, she will become sluggish in her work-do not hasten, overheat or excite her. If you have the date she is due to foal, you will know when to expect the new arrival. However, there is no infallible rule, usually the mare shows wax on her teats a few days before she foals, and immediately before foaling she becomes restless and there is an increased secretion of waxy milk, the colostrum. Be on hand if at all possible when the mare foals. If all the breeders made a practice of doing this the mortality among mares and foals would be greatly decreased. It is well to have the mare foal as early in the spring as possible, and to foal in the stable. To prevent joint ill, thoroughly disinfect the box stall where the mare is to foal. Don't be half hearted in this, clean the stall out, then sprinkle a pail or more of fresh lime over the floors, and a solution of zenoleum or other disinfectant around the walls. Then bed the stall with clean straw and plenty of it. When the foal is about to arrive, examine the presentation and see if it is normal. If the presentation is abnormal, send at once for experienced assistance to have the presentation corrected. If help can be given the mare when the foetus first makes its appearance, some of the most difficult presentations can usually be

corrected before the labor pains become severe, thus ensuring a live colt and a healthy mother.

PRACTICE DISIN-PECTION

When the colt has arrived, after the navel cord has stopped its strong pulsations, tie the cord near the colt's belly with a strong disinfected string. Then sever the cord. Before letting the tied navel out of the operator's hands, disinfect it with a 10 per cent. solution of formalin, and after that or better still, a patent preparation, 'Bismuth formic odide." Then iodide." leave the colt and mother alone for a couple of hours. Usually by that time the colt will

be sucking. If the



A Clydesdale Mare tion of fore quarters, showi the bone wanted and feet like "tubs

20

A Clydesdale Mare Showing proper conformation hind quarters. Owned by D. Gu

colt has not suckled, instead of trying to force it to do so, milk the mother, putting the milk into an infant's bottle and letting the colt take as much as it wants. Seldom will this have to be repeated. When next you see the colt disinfect as before, and continue this every ten hours, except at night, for the first three or four days, and again when the navel falls off. If this system were followed, there would be few cases of joint

It is well not to use the mare for at least a month after foaling. At the expiration of that time she can be worked lightly at such work as will enable her to suckle her colt every three hours, until the colt is two months old. Then it can go longer between meals. The colt should be handled regularly to instill obedience, and a kindly feeling towards mankind into its young head. Early lessons are never forgotten.

CARE FOR THE FOALS' FEET

As the colt grows its feet will soon need attention. They should be trimmed, whenever they show signs of breaking or cracking, or when they grow out too far. As colts and yearlings, feed liberally crushed oats, bran and bright mixed clover and timothy. If clover hay is free from dust it is better than anything else. Give the young-sters plenty of roots as well. Young horses require a great deal of exercise, so should be out every day through the winter for a few hours, but not long enough to become chilled, or to fill their stomachs with frozen grass. The fact that they need exercise, and much of it, for their perfect development must be emphasized.

The second summer may be passed in the pasture field. If the grass is not sufficient, give some crushed oats. Usually during the hottest part of the summer it is well to have the colts inside during the day and out at night. Otherwise supply shelter from the wet and flies.

During the second winter, combine the treatment used as foals with plenty of food and exercise During this winter the young horses should be well halter broken, and, if of good size, perhaps, hitched to light loads on the sleigh. Briefly, until the fall of the second year, when the horse is rising three years old, when most men put them to work, a heavy draught should have plenty of good nourishing food, and plenty of exercise.

AGE FOR BREEDING

The age at which a filly can be profitably bred, differs with the individuality of the filly. In the case of a large, well-grown filly, early breeding, say, during the second year, so that she may have a foal when a three-year-old, can be practised But usually it is well to first cover a colt early in the spring of her third year. This ensures proper development of the mother and the colt, and should allow for many years of profit in the stud.

If a good filly be raised, having one more cross than the mother, and be a better individual, sell the mother rather than the filly. The reason that the horse of Ontario is admittedly so much poorer to-day than it was ten years ago, is that most of the good brood mares and fillies have been sold, leaving the inferior individuals from which to breed. Ontario is the seed bed for Canada, and we should strive to raise the purest stock for the younger provinces. At the present, when times are dull, is a good time for the provident farmer to purchase a good brood mare, and a visit to any of the large exhibitions, should give a man an idea of the type demanded in to-day's market.

Cost of Keeping Cows

H. Bollert, Oxford Co., Ont.

The cost of maintenance of the dairy cow is a debatable question. Much depends on whether or not a man wants to keep a cow for the benefit of his health, or whether he keeps her for a profit. In the former case about \$25 a year will keep her. In the latter case it will take \$40 and even more at the present prices of all kinds of feed. The cost of keeping cows has increased considerable during recent years. Feed and labor are at least one-third higher than they were seven or eight years ago; consequently the cost of keeping the cow has increased in the same ratio.

The Aim of the Mutton Producer

In spite of all things said to the contrary and the discouraging reports on wool markets, there will be just as much profit in sheep this year as there is in any other line of live stock. Of course the profits of last year are not to be expected. It was an exceptional year, particularly for the sheep men. This spring, however, after last winter's financial depression, the mutton market was the first to move, and comparatively speaking, it started very strong.

In the ranching country of the West, it must be admitted that things do not look very bright. That is a country where wool represents half their profit, where sheep are fed in car lots and always sold by the hundred. A year such as



A Good Typa of Southdown

this means very little gain for those men and in many cases, serious loss. There, muttton can be grown much cheaper, pound for pound than in Ontario. The same applies to wool. It is they who control the mutton market in Chicago and Buffalo. If Ontario breeders have to compete with them, they have to feed very carefully to show a profit.

The hog men in Ontario soon found that if they were going to raise the fat type of hog they would have to compete with the product from the corn belt. This they realized would be anything but profitable, so they produced a more reliable article, the bacon hog. It found a better market and in consequence, it started a very lucrative

A TRADE IN THE BEST MARKET

The most up-to-date of Ontario's sheep men have already taken a step in the right direction. They have worked up a trade with the best butchers in Toronto, Montreal and New York. As it is, we find that any Ontario mutton has a preference over the average American product. This surely gives feeders something to work on. If, with the aimless breeding at present carried on, they can conform favorably with the Americans, what could they do with improvement?

The main reason, at present, for the ordinary farmer's lack of attention to his flock is that it does not seem to demand any care from him He probably has from 10 to 20 ewes, that run at large all summer. They pick for themselves, requiring housing and feed for two or three months in the winter. They will, as a rule, clear him five or six dollars a head each year. This represents something like 25 per cent, of the total money invested. With money coming so easily, a man thinks he should make no further effort. But why not double it? With just a little care and attention this is possible.

In the first place, next fall start out with a good sire at the head of the flock. It is conceded that the ram is one-half the flock. What cheaper way is there of improving the flock than by investing five or ten dollars more in a good ram? Above all things never use a grade or scrub ram. What can be done in the way of improving a flock when a ram is used of whose ancestry the best that can be said is that they were sheep? It is not sufficient that an individual in itself be good. To be any value for breeding, it must be descended from stock that is bred right and true to type. There is also the other extreme when men get a sire with a long line of ancestry regardless of the individual. This is the greater mistake of the two, as the individual must first be selected and the breeding considered afterwards.

The females must also receive some attention. The greatest mistake of the ordinary farmer is that he allows the butcher the pick of his lambs, and breeds from the ones rejected by the butcher. Why not pick out the number needed of the strongest and most typey ewes. Then allow the butcher to take the rest. It will mean money in pocket inside of two years.

Make the first step this fall by laying out enough money to buy a good ram. If the lambs have not been satisfactory, select a sire of a different breed, or in the case of pure breds, of a different strain of the same breed. Produce something just a little better than last year. By careful selection of females the flock will become not only a source of profit but of pleasure to the breeder .- C. F. M., Middlesex Co., Ont.

Our Corn for Next Year

L. D. Hankinson, Elgin Co., Ont.

There is no time during which the selecour seeds for the coming season's planting can be so advantageously undertaken as at the harvest time. Then we can more readily locate the most vigorous growing plants, and by spending a little time in this manner we are able to choose the fittest. A little forethought often saves much inconvenience, time and expense at seed time,

. Corn harvesting will soon be at hand, and those interested in the growing of the most valuable crop must needs take the opportunity, and either select the seed from their own crop or procure it from some reliable source. The past year has been an object lesson to many along the line of seed culture in regard to corn. Last year owing to the scarcity of seed corn much inferior stuff was placed upon the market. Now, the result is manifest. Where inferior seed has been used we see uneven, sickly and patchy corn fields, while on the other hand where well selected seed has been used we have everything that tends to be a bountiful crop, thus exemplifying that old established law, "like begets like."

HAVE A DEFINITE AIM

In selecting seed corn, as in animal selection, we must have some definite aim, some fixed standard. Then select with that in view. A good car of corn, no matter of what variety must possess certain definite characteristics. It should be more or less cylindrical in shape, symmetrical, large and well filled with sound grain from butt to tip. The rows of kernels should run straight—the whole length of the ear—and the kernels should be of uniform size, thus giving a large per cent of grain to cob. A good, mature ear, when taken in the hands, should possess a firmness about it, so that when twisted in the hands, there will be no indication of looseness of kernels or vacancies between kernels. In my experience the best time for harvesting seed corn is while the crop is standing. Then one can see both the parent stock and the ear it has produced. By passing through the field with a basket and stripping down the husks on the promising looking ears, one can in a short time procure the seed he requires. Or when husking is done by hand the selection may conveniently be made then. The husker simply leaving the husk on the ear and throwing it on a separate pile.

In storing seed corn I still stick to the good old fashioned way. That is, after gathering the seed, we tie, or braid it up in bunches of twelve to sixteen ears each and hang them in the sun for a few days to brighten up. Then I store it in the garret above the kitchen. This I consider an ideal place for storing seed corn. Slats are nailed to the rafters and the braids are suspended from the slats. In this way many bushels may be stored in a small space, and the seed is kept perfectly dry, and moderately warm, besides being away from the rats and mine.

GUARD AGAINST DAMPNESS

In the absence of a suitable garret, I would recommend hanging it in the barn in like manner. Precautions must be taken against dampness. Another method frequently used and highly recommended by those who grow seed corn commercially, is to husk the ears and store in ordinary bushel potato crates. These may be stacked one above the other in winter; then they are ready for immediate shipment. But the one drawback to this method is the crates are expensive.

In those sections where corn does not come to the proper stage of maturity for seeding purpose, I would strongly recommend growers to buy in the fall or early winter. Buy it on the cob. By doing this they can store in a suitable place and save the risk of it being spoiled by exposure. By buying on the cob one is more sure of getting varieties true to name, and he sees what he is buying. I would also advise buying direct from the grower. One can then generally get a superior article, and save money by cutting out the middleman's profit.

The Weed Problem

T. G. Raynor, B.S.A., Seed Branch, Ottawa Among the many problems which farmers have to face, there is none which gives him more concern than weeds. Not only is the man who has to put up a big fight with them to secure paying crops, concerned, but also the man who has comparatively clean land. It is to be regretted that there are very few weed free farms in the country. Not long since, in driving through the county of Waterloo, where German farmers abound and where they are putting up a big fight against weeds, I learned of a farmer whose mind became unbalanced over the struggle he was having to keep his farm clean. He suicided. It would be sad, indeed, if farmers, like the one referred to, would give up the battle and allow it to work on their minds in that manner, when victory is theirs if they will only persevere in the right Yet I cannot help thinking it would be well if there were a large class of farmers who would take the question more seriously than they do. It is the careless farmer who stands in the way of progress along these lines.

In this struggle against weeds there is much hope. As a better knowledge of weed life is obtained as to the plants and their nature of growth much more will be accomplished.

What is a weed? Some one says it is a plant out of place, i.e., where three plants are growing and there is room and plant food for only two, one of them is a weed. Rye in fall wheat, or timothy in alsike clover may be looked upon as weeds. However, it is the useless, or comparatively useless plants which are very hardy and which interfere with the growth of our crops, costing us time and labor, that we usually brand as weeds. Weeds are costing the farmers of this country thousands and thousands of dollars every year in increased cost of cultivation, as well as interference with the growing crops. In case of quack, couch or twitch grass for instance, and few are more persistent, it may be alleged that the extent of loss sustained from it can hardly be estimated. It has few equals, and perhaps none worse in many respects.

Is there any ray of hope for deliverance from these enemies of ours? Yes, I believe there is abundant hope. What is no eded is more definite knowledge of our weeds, and a persistent application of the best methods for their destruction. With good implements and horse force the most persistent weeds must give way. In the persistent and successful fight against weeds we are coperating with nature in unlocking her abundant store house of plant food for the use of crops which will increase our yields of grain of good quality. Therefore, let no farmer be discouraged and let him remember that now is the time to fight for next year's grop.

Care of the Potato Crop S. A. Northcott, Ontario Co., Ont.

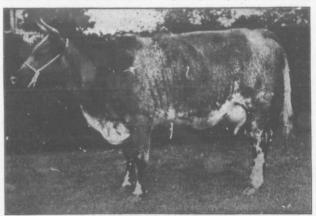
The potato industry is an important moneymaking business when looked after properly. It has been neglected to a great extent in Ontario. The past few years the province has not produced sufficient potatoes to supply its own consumption. Car after car of potatoes come into our towns from the east to supply the demand. Many farmers scarcely grow enough for their own use. It is those who grow only a few rows, or less than an acre, that complain most about the potato business not being profitable. It is not to be wondered at when you consider the slip-shod way they go at it. Help may be scarce and high priced. Bugs are sure to be present and blight and rot may come. By using up-to-date machinery, one man can look after a 10 acre field with little more labor than would be spent on one acre under the old fashioned method.

Unless the potato crop is properly attended to the results are not likely to be encouraging. Use the two horse cultivator, and ride, and do two rows at once. You will do it better than with the one horse affair which you have to walk belooked after in any case. Help can generally be found for haying and harvesting. Why not find a day to cultivate or spray the potatoes? It will pay ten times over. If the work is not done the potato patch will be practically left to take care of itself. In that case, the results will be satisfactory. The late blight, which is the most destructive, affects the tubers as well as the foliage. Spraying for it should commence about the middle of July. Keep a coating of Bordeaux on the vines till September. One thorough spraying when the blight makes its first appearance will often check the disactrous results which will otherwise follow. The vines can be sprayed four times at a cost of about \$3.50 to \$4.00 an acre. This includes labor, blue stone and lime

When the crop is ready to harvest a good digger or potato plow will soon pay for itself. The "Hoover digger" or the Erie Iron Works Potato Plow may be used. Both are quite popular. With either of them a large crop may be uag at a small expense and in the minimum space of time. I again urge; "take time to look after your potato field."

Should we Raise our Calves?

Should we buy our cows or raise our own dairy calves? In our territory it will usually cost about \$60 to buy a good dairy cow. Sometimes I can go out and buy cows for \$35 and \$40. Cows that look to be all right, mature cows, in their prime, and by such dairy cow signs as I am conversant with they should be real good cows. Sometimes some of them are. Invariably however, many of them are not. What are they? Whence do they come? Why are they out in the commercial world hunting buyers? The very fact that they are kept moving on puts them under sus-



Rosaline 5th (imp.)—84.504—(vol. 5t. p. 592). Calved July 15, 1594; bred by Arch. Ritson, Cumberland, Eng. See article, "Tip Segisla Dairy Shorthorn," on Page 19, of this issue.

hind and hold all day and which tires you before night.

It is an easy matter to deal with bugs and blight where a spray pump with attachments for spraying 4 rows at once is employed. The whole outfit can be purchased for \$25. It will pay for itself in one year, even if you only have one acre of potatoes. With it one man can spray a ten acre field in a day and do it easily. The same time would be spent on one acre in the old hand way and then the work would not be done as well. When the work is done by hand with a can of some description there is seldom any attempt made to combat blight. This disease should be

picion. Frequently they are 'rejecta' some one has been weeding them out. Some breeder who has found that all the cows he raises are not good cows has set the disappointments aflost. They are direlects, and many of them are not worth their salvage. Many of them, very many of them,—in fact perhaps all of them,—are embodied records of their breeder's mistakes. If these cows had been bred right and fed right, they would not now be driven from the pillar of one dairy to the post of the next one. They would have fixed places of fixed honor and profit, and from which no buyer's \$50, \$60 or \$75 would take them,—W. F.

Holstein and Ayrshire Characteristics Compared

Geo. Rice, Oxford Co., Ont.

Since I have started to breed Ayrehires as well as Holsteins numerous have been the enquiries that I have received from farmers who are thinking of investing in one of these dairy breeds and who ask for my views of the merits and demerits of the two breeds. Though perfectly willing to give any information that I can to help a beginner, it would be a physical impossibility to answer my correspondents individually, so from time to time I will try to give the information in a wholesale way through the columns of The Canadian Dairyman and Farming World.

In the first place, I like to take plenty of time to find things out from my own experience. As



JEAN ARMOUR

An Ayrshire cow of the milking type-the kind that dairymen like to own.

yet I have not had time enough to do this with these two breeds.

Our improved breeds of dairy cattle have been developed by improved methods of care, mating and feeding. Not all registered cattle, by any means, have had this necessary attention. Hence many of these have deteriorated and although they may be registered and be pure bred, they cannot be considered to be improved cattle. There is a vast difference between the individual animals of every breed. In order that the character of the different breeds may be studied it is neces-

sary to have many animals of each breed to compare from. and to compare only those of each breed that are equally representative of that breed.

In comparing Holstein and Avrshire. another difficulty presents itself. Although utility is our standard and we value a cow for the amount of milk, cheese or butter that can be made from her milk, the two breeds have a decided and distinct way of doing business. A good Holstein cow produces enormously. She is

able to do this when A Holstein cow, in good flesh at calving. Later on she turns all her energy into milk handled to the best advantage, from the do her best unless she gets the best care and fact that she is not only a good feeder and has feed. The production of large quantities of food

the power, in a large degree, to draw upon her own system, and to put the energy and strength that she has acquired whilst dry into producing her milk. The milk she gives is obtained from this stored up energy quite as much as from the feed she eats at the time she is giving milk. Hence, we find, no matter how well we may feed her when milking she loses flesh and weight. This explains why those who understand her, and who manage her right by getting her in good condition before calving, get such great results from her. It is also, the reason why others do not get such good results. They do not consider her nature and do not get her into good condition while she is dry. The milk produced under proper conditions is produced cheaply, especially if we consider only the feed given her at the time she she is milking, as

the feed she has had whilst dry is aiding her in the production There comes a time, of course, when she has drawn upon that stored up energy until there is no more to draw upon Then she gradually shrinks in her milk and gives a more moderate quantity, the amount of which depends largely upon the care and feed she gets at that time.

CHARACTERISTICS An Ayrshire cow, though enabled to draw upon her reserve strength (as all good cows must do), does not seem to

have that peculiar power in nearly as great an extent. And on this account she does not reach as great a production during the early months of the milk period, in proportion to her year's work. But, she keeps pegging away with the result that we find Ayrshire cows, five or six months after freshening, giving nearly as much milk as they have, say two months after freshening, but this is only where they have been getting the best of care and feed during the whole period.

CARE AND FEED NECESSARY
No cow, be she Holstein or Ayrshire, is going to

MERCEDES CANARY PIETERTJE

for human beings is a big tax upon her and it is up to us to do our best for her.

As it is important that this characteristic of the two breeds shall be understood perhaps I can make it more clear by giving a few figures from the different periods of lactation of a cow of each breed that I consider equally representative of each breed.

A Holstein gave 593.6 pounds milk, 19.83 pounds fat in seven days.

An Ayrshire gave 386.4 pounds milk, 15.84 pounds fat in seven days.

Both of these cows were fresh in November and had practically the same feed at that time. Ayrshire cow is a good feeder, able to handle 18 pounds meal, 40 pounds mangels, 30 pounds ensilege and some hay daily and never miss a meal. The Holstein cow lost more in flesh and that was why she produced, at this time, more cheaply. She could produce more because it was her nature to draw upon her reserve to a greater extent than was the case with the Ayrshire. That it paid to feed her well at that time is shown by their work in June. Seven months after calving the Avrshire on grass gave 38 pounds milk daily, at the same time the Holstein gave 48 pounds milk daily. If we take their test the sam as when fresh it would be 1.584 pounds butter fat for the Ayrshire and 1.632 pounds butter fat for the Holstein daily. This is not nearly as great a difference e at the beginning of the milk period.

It must not be inferred from this that the Holstein is a less persistent milker for the year. The Holstein strikes a tremendous gait at the start by being able to draw upon her own system. But, when all the reserve is gone, she has to be content with a more moderate pace. The cost of production is nearly always in favor of the largest producer, especially during the producing period. But, at the end of the mink period, in this case, the Ayrshire cow carries the most flesh, she has not exhausted her system to as great an extent and the Holstein cow will require more meal whilst dry if we are to have her in fettle to do as good work 'next year.

It is not an easy matter to dry up a good Holstein. Instead of half starving her we would rather trust to irregular milking. Milk once a day for two weeks, then keep lengthening the periods. Give her plenty of salt. Keep her bowels loose to ward off garget. Remember, always, and if we would have her repeat next year we must take the means of putting her in shape for another year's work. It is by attention to these little points that many farmers get such fine results. The man who knows how and will do it (that is as regards taking care of a Holstein right) can obtain great results. Because she is such a large producer and because she produces her milk in the way she does, she needs rather more skill and different management than her Ayrshire sister when dry.

The Ayrshire cow when dry needs but comparatively little care. She is carrying as much flesh as is necessary and as much as she can make good use of. All the year through she presents a nice picture to the eye. Her udder, being more flesh, helps her to present a good appearance

When good milking Ayrshires form the herd, very satisfactory results can be obtained. The results depend quite as much upon the man and his management and selection as they do upon the cows. Unless the herd is very large it is best to be content with one breed. If good results are not obtained, it may be the fault of the man rather than of the breed.

No breed can retain its superiority unless well cared for and well fed. This is most important with dairy cattle, as the production of milk puts an enormous tax upon them. We must keep up the vitality and thrift and avoid crossing. Crossing is nothing more than a mixing of pure breeds. As each breed has its distinct characteristics our aim should be to make the most of these.

A Well Arranged Dairy Barn

One of the best dairy barns in Leeds County, Ontario, is that owned by Mr. J. R. Dargavel, M. L. A., of Elgin, the president of the Eastern Ontario Dairymen's Association. Mr. Dargavel is mentioned as a possible successor of Hon. Nelson Monteith, as Minister of Agriculture for Ontario. An illustration and diagram of this barn appears on this page. The farm on which this barn is located, comprises 275 acres, most of which is rough land suitable only for pasture or for forestry purposes. Only about 100 acres are worked. The farm is known as Glen Farm.

The cow stable is 46 feet long by 36 feet wide and provides accommodation for 25 milk cows and from 15 to 20 young cattle. The stable is divided into 26 stalls. The cows are fastened to the manger with chains or ties. Water is kept before them constantly in iron basins, the water being pumped by the wind mill shown in the illustration.

One of the features of the barn is its splendid system of ventilation. The outside air is admitted through openings in the hollow wall near the ground and into the stable through openings near the ceiling. The foul air is drawn up into the cupola, about 8 feet square, on the roof. This cupola, which may be seen in the illustration, has doors on both the east and west cides. These doors are connected by a rod 10 feet long so that one door is always open. When the wind is from the west it closes the door on the west side and an



Rockdale Cheese Factory, Leeds County

The factory here shown has been completed only recently According to Mr. R. G. Murr', of Brock-ville, the well known cheese burer, it is one of the best factives in reversions. In manufactures the milk of a community of farmers, who are so isolated they would be unable to dispose of their milk to select the were it not for this factory. The building is owned by Mr. J. R. Dargayel. M. L. A. of Eigin, the president of the Eastern Ontario Dairymen's Association. The story of how it came to be erected is an unusually inter-cetting one, and is told on Page 16 of this issue. The patrons of the factory are planning to have a big dis-

shares.

as shown by the cheese factory returns a year

ago was the largest in the section. Some of the animals are pure bred Avrshires, the real being mostly grade Ayrshires, they all being sired by grandsons of the noted cow, Nellie Osborne.

Mr. Dargavel is a firm believer in corn and the silo. From 10 to 15 acres of corn are raised each year. The balance of the arable land on the farm is devoted to grain and meadows. The farm is a profitable one.

paying over 5 per cent.

tion are rented on that basis. An interesting little story of what Mr. Dargavel did for the farmers in the section where his farm is located was recounted recently to a representative of The Canadian Dairyman and Farming World while visiting in Leeds County, and is told on page 18 of this issue.

lately as possible successors to Hon. Nelson

Monteith, as Minister of Agriculture for Ontario,

have as extensive agricultural interests as has

Mr. Dargavel who owns in all three farms. Two

of these farms, including one of 50 acres, and

another of 250 acres are rented. The third farm

is Glen Farm which Mr. Dargavel is working on

Mr. Dargavel was the first man in his section

who owned a farm who agreed to allow the tenant half the proceeds of the farm. The

general rule had been to allow only one third.

At first some of the farmers who had rented their

farms were very much put out when Mr. Dar-

gavel rented his on a half basis. Mr. Dargavel,

however, had convinced himself that a tenant

farmer in his section could not make a good living when he received only one third of the

proceeds of the farm and, therefore, he stood by

the position he had taken with the result that

now a large proportion of the farms in his sec-

cows ALLEY MANURE SHED FEED CONCRETE Ground Plan of Barn at Glen Farm

A well-arranged dairy barn owned by J. R. Dargavel, Elgin, Ont.

iron rod that is attached to a door on the east side opens that door. Thus, when there is a high wind blowing it does not interfere with the escape of the air from the stable. This simple and inexpensive system of ventilation keeps the air in the stable nice and fresh.

The herd of cattle are, for the most part, large producers. The average production of the cows, on the capital investment.

Hogs are a valuable side line. At present a pen of pure Tamworths are being raised. Generally, however, a cross between the improved Berkshire and Yarkshire is produced for market

Probably none of the members of the Ontario Legislature whose names have been mentioned



A View of the Buildings and Cattle on Glen Farm, Leeds County, Ontario.

This barn, owned by Mr. J. E. Dargawei, M.L.A., of Eigin, Ont., a description of which, with the accompanying diagram, is published on this page, is one of cest equipped dairy barns in the county, and, in fact, in the province. The building on the left is the hog house. On the extreme right may be seen the windmill, at its foot the well-equipped milk house. The system of ventilation in the barn is one of its best features, and is giving sphelidic satisfaction.

Winter Fair Buildings

A deputation from the Guelph city left with the Steodynam Consisting of Mayor Newstead, and Ald. Kennedy. Rowen, Penfold and Humphries, recently conferted with Hon. A. J. Matheson, Provincial Treasurer, to see what arrangements can be made to provide for new buildings for the winter fair.

Agricu

The Ontario Government is giving \$20,000 and the Guelph council has The Ontario Government is giving \$20,000 and the Guelph council has voted \$10,000 towards the new build-rounding farming districts, were foring. The building will have to be tunate in securing one of the two new

modified in plan or equipment to come branches of the Ontario Department of within the \$30,000. The deputation less with the understanding that they were to see what they could get from the county and township councils. If they succeed, the Government consider an application for an addi-

Agriculture at Whitby

father's farm fruit growing and dairying, well hog raising, are carried on. Thus Mr. Hare has had a wide experience in gen-eral farm



the exception J. H. Hare, B. S. A. of one sum-

mer spent in the West. Mr. Hare has labored on his father's farm till he ac-

labored on his father's farm till he accepted his present position.

After his high school training in Cobourg, Mr. Hare successfully completed a commercial course. After this, he attended the Ontario Agricultural College, from which he graduated last june. After graduation, he was appointed the support of the supportance of the physical department under the support of the support of the support of the work which he has undertaken. With his farm experience to back him up and his college training, he should up and his college training, he should be of great service to the farmers in whose district he is located. The field in which Mr. Hare is lo-cated is a splendid one. He will be of assistance to farmers in solving the

innumerable problems which confront them. He will be able to assist the them. He will be able to assist the farmers investigate fungous diseases, in the erradication of weeds, insect if y.n would get good results from pests, etc., and will be able to give then and above all, treat them kind-assistance in the line of farm drain-ly—Mr J Webster, Peterboro Co.

branches of the Ontario Department of age, spraying, rotation, tillage, etc. Agriculture, recensity established. Mr. Mr. Hare will also identify himself J. H. Hare, B.S.A., who has been with organization work among the selected to direct the movement, was farmers. An exhibit of educational born and raised on a farm one mile character has already been arranged north of the town of Cobourg, North- for the Oshawa fair. It is likely that umberland Co., unt. Here he became the introduction of agriculture into thoroughly grounded in all that pertains to the practical side of agriculture. On his father's farm

Feeding Green Corn

I have begun to feed green corn to my cows. They do not seem to be giving very good returns for the amount fed. What is the cause of the unsatisfactory returns. —J. K. L., Ont.

Green Corn in August is usually very low in feeding value. To get the most profit from feeding green corn, some meal should accompany it. The kind of meal will depend, to a certain extent at least, upon what is available, but the most advisable would be bran, oil cake meal, cotton would be bran, oil cake meat, cotton seed meal or gluten. A mixture of four parts bran and one part each oil cake meai, gluten meal and oats, may be expected to give about the may be expected to give about the best results. Cacking gluten of older the best results, cacking gluten of older on the cacke meal, cacking gluten of older on the cacker of the cacker meal, cacker meal, cacker of the cacker o to the best, and the poor ones, or to those far ac vanced in lactation. "After Results."

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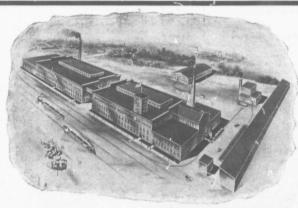
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Brantford Roofing Co., Limited BRANTFORD. CANADA

Should Feed More Hogs

Should Feed More Hogs
Ed., The Dairyman and Farming
World.—Owing to the high price of
feed and the low price of pork, I
understand there is a considerable
falling off in the supply of fat hogs
going forward to the packers. Hog
vasing has been rather discouraging
to the farmers for the past year, but
I do not think it the best thing to do
to drop the business, because there
has not been much money in it for

has not been much money in it for a single year.

We have fed and marketed 45.226 lbs, of live hogs during the past five years at an average price of \$5.81 a cwt. Perhaps by taking a number of years, it pays as well as anything else, becides we feed up the product of the farm. This latter is quite an advantage to the farmer if it pays, and we think it does.

I have often thought the farmers

think it does.

I have often thought the farmers of this country should feed more hogs of this country should feed more hogs of the country feed to the country feed to the country feed to the pay then; especially if they have the conveniences such as good stabling, water and summer pasture close by the pens. But, perhaps if it was gone into on a larger scale it might affect the price of feed, so that it would not have presented the price of feed, so that it would not pay unless the price of feed, so that it would not pay unless the price of pork would in the price of feed, so that it would not pay unless the price of pork would in the price of the does not be not been such as to the advisability of its being held in Victoria Hall 55 Queen St., price of the country feed in the price of the does not be not been such as to the advisability of its being held in Victoria Hall 55 Queen St., price of the country feed to the price of the country feed to the price of the does not be not been such as to the price of the does not be not been such as to the price of the does not be not been such as to the price of the does not be not be not been such as to the price of the does not be not been such as to the price of the price

person would like to know if bog leeding has paid us the past year I will give a statement of feed bill and the amount received for the hogs.

I am not one who thinks that the backers are trying to beat the farmers. Such folly would react upon themselves by destroying their own business. If the farmers quit feeding the packers will have to quit packing. If the farmers quit feeding the packers will have to quit packing. If the farmers quit feeding the packers will have to quit packing. If the farmers quit feeding the packers will have to quit packing. If the farmers quit feeding the packers will have to quit packing. If the farmers quit feeding the packers will packing. If the farmers quit feeding the packers will be packers will be packers will the packing. If the packers will be packers will only a state of the packers will be packers will only a state of the packers will be packers will only a state of the packers will be pack quickly enough to amount to much by the time it was necessary to cut the timothy. I might add, also, that on the part on which we did not sow clover in the spring, but on which it had been sown in September, and ap-parently frozen out, clover began to grow later in the season, and made a fairly good showing at time of cutting for hay, although not quite so heavy a growth as where we had sown for the second time in the spring.

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The English Dairy Shorthorn
As a Farmer's Cow
Editor, The Dairyman and Farming
World.—In accordance with your request, I am sending you berewith a
few notes upon the milk records of
our college Shorthorns. We are not
your in a position to say much aboni
them, since the records, as may nee
always and the same of the English dairy
with given and are perhaps self-exof our college Shorthorns. We are not
your in a position to say much aboni
them, since the records, as may be
noted, are very incomplete. The cattle
alves. Of these is 4 are registered or
leighle nor registry in the Canadian
less present yield per day (Aug. 19th)
Buttercup—Calved October 12, 1907.
Complete of the condition of the self-are registered in the English Herd
Book, but are short pedigree cattle
may be a considered it very fortunate that
your letter? At present, we are ad-

SAFE, SPEEDY AND POSITIVE. upersedes All Cautery or Fir-

g, lavaloable as a CUR.
POUNDER,
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OLEVELAND, OHIO.

requirements of the Canadian Shorthorn Breeders' Association. We trust that we shall be able to make the experiment commend itself to farmers and breeders alike and any further information that your readers may desire will be gladly given.—H. S. Arkell serves of the shall Husbandry, Macdonald College, Que.

Uniformity in Feeders

Prof. J. H. Skinner, Purdue University

Greenleat—Caived October 27, 1907.
Milk from Jan. 1st to Aug.

Barrington—Calved Jan. 31st, 1908.
Milk from Jan. 1st to Aug.

Barrington—Calved Jan. 31st, 1908.
Milk from Jan. 31st to Aug.

Barrington—Calved Jan. 31st, 1908.
Milk from Jan. 31st to Aug.

18th pick there of the control of the



A Champion-"Cheddington Malcolm"

This Shorthorn bull won 1st and championship at the Royal Agricultural Society's show, this year. The property of Sir Richard Cooper, Bart., Ashlyne Hall, Berkhamsted, England.

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Barrington we consider our best milker. She is of true Bates bland if she continues as at present hope to make her reach almost 11 lbs. within the year. Furbelow heifer with her first call, is from London-Heifer with her first call, is from London-Heifer with her first call, is from London-Heifer with public is given to another page, we think a very attractive cow. She is Cumberland bred and gave 1037 lbs. in July with her second calf.

The calves eight in all are a britisy

1037 lbs. in July with her second calf.
The calves, cipth in all, are a britly bunch and, with the exception of the one cut of number ten are doing well.
They have never suckled their dams but are getting a liberal allowance of akim milk and clover with just a bite of meal. We are trying to give them frames and constitution without make trames and constitution without make the constitution wit These tools are tempered by the same process used in the tempering of the famous Maple Leaf Saws. They are the best goods of the kind ever offired to the Canadian public. Every tool is warranted. Handles made of best second-growth white ash. It pays to use the best. If your merchant has not got them, send to the Maple Leaf Harvest Tool Co., Ltd., Tillsonburg, Ont., who are the manufacturers. None genuine that do not have the Gold Sheaf on the labe years of the continuous continuous to the continuous c

FARM PROPERTIES WANTED

Parties having farms for sale may send particulars of same to the Pro-vincial Bureau of Colonizatior for information of prospective buyers from Great Britain and elsewhere. The Bureau will not act as a broker for the sale of properties, but will direct buyers to the owner or agent of the property.

THOS. SOUTHWORTH

HON. NELSON MONTEITH

For the last year and a half or two years feed prices have been excessively high. The prospects of a fair to good grain crop in practically every township of the country, increases somewhat the probabilities for lower prices. While the grain farmer may not view the fälling market with any great degree of enthusiasm, the change will be most welcome to Canadian live stock men. no matter what dian live stock men, no matter what the stock, from the hen to the horse,

the stock, even the here to the warse in which they may be interested.

A common practice, for dairymen at least, has been to order during the summer, and at sumner prices, practically all the feed they expected to need for the winter's operations. This refers, of course, more particularly sto such feeds as bran, shorts, gluten meal, oil cake meal, cotton seed meal, and other be-products now so extended, and other be-products are of summer buying is highly advisable, but this year, owing to the scarcity of raw material (grains of all kinds) last year, nearly all be-products are

year, nearly all bye-products are scarce and prices rule high. The placing of the new grain crop on the mar-ket, together with brightening trade prospects will soon increase the supply of such feeds, and consequently have

a tendency to lower prices.

During the past few weeks the only buring the past rew weeks the only feed on the market that has not been unusually dear, was oil cake meal. Until this feed rises over \$35 or \$36 a ton it may be considered as a profitable feed for either the dairyman or the beef producer.

The Feeders' Corner till a good deal later in the season. It is certain now that no raise in prices will occur; it is practically certain that prices will occur; it is practically certain that prices for all feeding material, for the next few months will have J. H. Grisdale, Agriculturist, Experial, for the next few months will have ial, for the next few months will have a downward tendency. "After Results."

Bran vs. Pulp Meal

Which is more profitable to feed, both or milk and fertilizer, bran or pulp meal? The pulp meal is something new this way. I am about to buy in my winter supply and should like to know your opinion.—
J. L. T., Jr., Coaticooke, Que.
The question of profit in feeding a given material depends upon two chief

factors, its composition and its cost. Supposing sugar beet pulp meal and bran to cost the same figure f.o.b. your station, then bran is much more your station, tien bran is much more likely to be a profitable feed than is sugar beet pulp meal. On the average of a large number of analyses, dried sugar beet pulp meal contains about 6 per cent, protein, and 70 per cent carbohydrates, while wheat bran contains from the content of the contains of the content of

cent carbohydrates, while wheat bran contains from 12 per cent to 13 per cent to 13 per cent protein, about 40 per cent grandontains from 12 per cent to 4 per cent fat or ether extract, a very much better balanced feed for dairy cattle than dried sugar beet pulp. When it comes to their relative values from a fertilizing standpoint, wheat bran is even more to the fore than when feeding values are compared. One thousand pounds wheat bran contains from 26 to 27 bbs. nitrogen, from 26 to 30 bbs. phosphoric acid, and from 16 to 17 lbs. potash; while 1,000 lbs. dried sugar beet pulp contains about 44 bbs. nitrogen, about 3 tains about 14 lbs. nitrogen, about 3 lbs. phosphoric acid, and about 4 lbs.

It might just be added that the pre ton it may be considered as a pro-sent moment is probably not the best table feed for either the dairyman the beef producer.

In view, therefore, of the probable last year, bye-products of all kinds

mental Farm, Ottawa.

Unthrifty Cow

Unthrifty Cow
Cow is in poor condition. Her breath has a foul year, and the sealing a second for the sealing and the sealing a have your Veterinarian exam and test her with tuberculine





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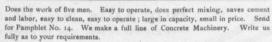
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n Fruit Inspector, Tore

P.J. Curey, Dominion Fruit Inspector, Toronto
Outside of that held by the numerous co-operative fruit growers' associations, the bulk of the apple crop
has passed into the hands of the dealers. As "lump" the purple of the say anyting definite in the partial of the say anyting definite apples certainly
is light in many districts, but the fruit
is of good quality in most orchards,
and very large. Baldwins and Russets were as large on August 15 as on
October 15 of last year. Large quantities of Duchess are being shipped
both to the west and to European
markets, and sales so far have been
satisfactory.

Western Market for Our Fruit

The shipments of fruits, such as apples, pears, tomatoes, grapes, and so forth, commenced this season so forth, commenced this season earlier than usual, the first cars going out in the latter end of July. The demand has been greater than in previous years. While the shipments have been very heavy the prices have been very encouraging. It looks at this date as if the output to the west would be at least 50 per cent, heavier

recesses essesses esses fruit fruit. It is up to Ontario growers and shippers to demonstrate that we can grow fruit of a quality that no other country can equal, and, at the same time, place it in the consumer's hands in an attractive shape, by pro-per packing, and selecting, and also to load it in new cars so that its safe

to load it in new cars so that its sair carriage and delivery can be ensured.

Our fruit must be gathered carefully, and only fully ripe or grown specimens gathered. This can be done by making two or three pickings off a tree.

ings off a tree.
After picking and packing, the
fruit must be cooled before starting
on its journey, either by placing it
over night in cold storage or by icing
the refrigerator car the day previous,
and keeping the car well iced while

and keeping the car well ited while loading.

If the fruit could be properly distributed through our western provinces, we could place in that country every basket that we grow—of any variety that will carry that distance—and then the demand would not be fully supplied. The more we learn about the needs and the requirements, the more we realize the vastness of the west. Later in the season we will be prepared to give the results of several experiments in cooling fruit previous to putting it in the cars, and also in cooling the cars previous to starting on the journey to the west. the west.

would be at least 50 per cent, heavier than in previous years.

The western people are showing receive prompt attention and will be their appreciation of the quality of our welcomed.

Nova Scotia Fruit News

R. J. Messenger, Annapolis Co., N.S.

More than the usual amount of rain for this season is having its beneficial effect on the late fruits. Apples are growing rapidly, and the concomitant smoothness and freedom from spot is also very pleasing to the orchardist, who grows fruit for the money there is in it. If this section is a sample of the whole of Nova Scotias, we will have the cleanest, largest apples this year that we have had for some years. Even the Gravenstein, which will go scabby on the least provocation, is this year, in all cases some years. Even the Gravenstein, which will go scabby on the least pre-rocation, is this year, in all cases where thoroughly sprayed, growing remarkably clean and even in unsprayed orchards, it is cleaner than in the average of years. Baldwins, which in most years bear beavily and grow small, are showing up very favorably at this date (August 18), and are almost as large as they have been at time of picking in some previous years. Kings are very good size, but backward in color. This is true of all apples and no doubt is due to the rains and continued cloudy weather of this month. However, September is our coloring month, and we hope for some continued sunshine then.

The speculators are quiet so far, be-

some continued sunshine then.

The speculators are quiet so far, benumbed probably by the frost of their last year's losses (?). They will soon be buzzing around the farmer filling his credulous ear with stories of immense crops and 75 cent prices. We will never believe that the wail of the operators last year was ruch more than a bluff.

British Fruit Crops P. B. Ball, Canadian Trade Con

Birmingham.

Canadian packers will have to remember that every year sees fresh competing fruit growers entering the British market, and what was considered a fine pack a few years ago, is not considered as such to day. Canada has much to learn from Tasmania and New Zealand in apple packing, and if the packers were to allow a few more shippers to enter her like those and it the packers were to allow a few more shippers to enter here like those of last year, not much will be heard of Canadian apples in Great Britain. That good packing is done and can be done, is proved from some of the shipments received last year.

GOOD CROP ANTICIPATED

GOOD CROP ANTICIPATED

This spring was particularly free from night frosts, consequently the blossoms were not interfered with, neither has there been anything in the nature of destructive hall storms or winds. Weather conditions have been specially favorable, and a good crop late falls and winter, light, particularly Spys, Baldwins and Kings. The quality is good. The frequent rains are making apples a good size. Plums are medium to specially favorable, and a good crop size. Plums are medium to good but the rot has started in some if will be remembered, pears were use damp, it will reduce the crop: very scarce in Great Britain, but this Peas are light; the retig hight has year there will be a good all-round hearly cleaned them out.—A. E. S.

crop of all varieties. The plum crop last year was almost a total failure. This year, however, excellent reports are heard on every hand, and in this district, which has a reputation for plum growing, it is believed that a record crop will be taken from the

Fruit Crop Outlook

There has been a material decrease in the prospects for a crop of winter apples. It is now estimated at about half of last year's crop. The fruit is growing rapidly, and is much larger in size and finer in quality than at this time last season. Crop correspondents of The Canadian Dairyman and Farming World point out the situation in Ontario to be as follows:

HASTINGS CO., ONT.

Trenton.-The apple crop is the Irenton.—Ine apple crop is the lightest I have ever seen. Some growers claim that they have not enough for their own use. There is a little spot; also considerable railroad worm spot; also considerable railroad worm in some sections, which is causing the applea to drop. Leaf blight is prevalent in some orchards. Baldwins seem to be more affected than other varieties. The buyers are paying from 50c to 81 a barrel, the grower to do the picking.—W. H. D.

ONTARIO CO., ONT.

Oshawa.—The apple crop will be something over one-half of last year. The fruit is large and of good qual-ity. Coddling moth is showing quite a lot but very little scab. Only a a lot but very little scab. Only a few varieties are heavily loaded. Pears are very light. Strawberries have been far; raspberries good. Plums are mostly a failure. The oyster-shell bark-louse has done quite a bit of harm: some orchards are almost ruined.—E. L.

OXFORD CO., ONT.

Ingersoll. - European varieties of plums are rather scarce; Japanese varieties plentiful. Apples are a little more than one-half of last year's crop. Early varieties are very plentiful, but Spys and Greenings are scarce in places. As a whole, the crop is fairly clean but very bad when unsprayed.—J. C. H.

BRUCE CO., ONT.

Seed Wheats of Merit

We offire the following varieties of fall wheat, all of which have given satisfactory results after careful trials. All successful fariners walter the importance of a change of seed also the necessity of growing the newstand bed sorts, and we can recommend with confidence for our trade. All excellent samples.

NEW HEO WAYE— Jones I instell introduction, which comes highly recommended. It may be a supplemental trial trade of the property of the confidence of trials. All excellent samples. It is considered to the confidence of the Dawson's Golden Chaff 1.20 Red Calabam
We also offer choicest grades of the following, specially recleaned for seed:
Fall Rre bushel \$1.10 Hafry Vetch bushel \$5.50
Timothy 3.25 Crimson Clover 6.00

Timothy 2-bush, cotton bage; best, 3cc. cach; good, 2cc. cach; extras. We allow a reduction of lice, a bushed on Ryo and Wheats (excepting Red Wave and Our descriptive price list of wheat, poultry supplies, and seeds for fall sowing, is ready, and will be mailed free to all applicants.

Our new bush list will be issued early in September. Send for it. Free.

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pered never have any "soft" spots, the common fault of those tempered by the "old" process. Ours are always of uniform hardness and scour extra well. Ask our agent in your locality for further particulars.

THE PARIS PLOW CO., Limited, PARIS, ONT. WINNIPEG, Man.

The Legumes as Nitrogen-Enrichers

F. T. Shutt, M.A., Chemist, Dominion Experimental Farms

Our work in the estimation of nitro-gen furnished by the legumes, was begun in 1894, and has been continbegun in 1894, and has been continued in 8 to to tons of fairly used more or less every year since that good barn-yard manure.

It is a significant fact, that in the tons, carried on simultaneously in field, orchard and laboratory, are to be found in the reports of the Experimental Farms. To simplify matters, I have constructed the following table. It states the yield, the nitrogen, the organic matter, and ash constitued in various leggen, the organic matter, and ash constitued in three months growth—firs. Crimson collect spring good, from July 1 to October 1, in the orchard.

ation of all our data leads me to the conclusion that, according to the nature of the soil and the character of the season, we may enrich the orchard soil with from 75 to 125 lbs. of nitrogen per acre by one of these legume crops. This amount would be contained in 8 to to tons of fairly

ORCHARD COVER CROPS Determinations made at Central Experimental Farm, Ottawa

PERIOD OF GROWTH July 1 to Oct, 15 (approximate)		ight of crop r Acre	Nitrogen Per Acre	Organic Matter Per Acre	Mineral Matter Per Acre
CLOVER, COMMON RED-		Lbs.	Lbs	Lbs	Lbs
Stems and Leaves	4 2	1779 1445	70 48	1842 1394	481 172
Total	7	1224	118	3236 -	653
CLOVER, MAMMOTH RED— Stems and Leaves Roots	6 3	1310 1260	82 48	2269 1409°	508 219
Crown Courses Total	10	570	130	3678	727
CLOVER, CRIMSON— Stems and Leaves Roots	11 3	234 201	85 19	2093 801	602 199
Total	14	435	104	2:194	801
ALFALFA— Stems and Leaves Roots	5 5	1192 558	75 61	2664 3120	510 613
HAIRY VETCH-	10	1750	136	5784	1123
Stems and Leaves	11 2	1.895 345	129 18	3689 536	425 56
Total	14	240	147	4225	481
Soja Beans— Stems and Leaves Roots	7	350 900	82 13	3319 549	313 28
Total	8	1250	95	3868	341
Horse Bean ← Stems and Leaves Roots	7 2	733 852	63 15	2193 605	156 39
Total	9	1585	78	2798	195

These results are to be considered as representative, rather than not equal those of the two first-absolute; they have been obtained in amed clovers.

Alfalfa, on suitable soil, has done data from two or more seasons. We very well, furnishing somewhat more find, as might be expected, that re-introgen than the clover, half of which sults avry according to the nature of its contained in the extensive root the soil, and of the season, and system. From all points of view, it the abundance of nitrogen-rathering its undoubtedly a most valuable cover absolute; they have been obtained in several instances by averaging the data from two or more seasons. We find, as might be expected, that results vary according to the nature of the soil, and of the season, and the abundance of nitrogen-gathering bacteria in the soils. Again, although the table gives a larger crop yield and nitrogen content for the mammoth red than for the common red clover, it must be pointed out that several of our experiments have shown the reverse. If it had been possible to determine the relative values of these legumes upon soil alike these legumes upon soil alike throughout all the plots, and during the same season, the data might have been strictly comparable, but this was not possible.

We cannot state exactly what pro-

We cannot state exactly what pro-portion of the nitrogen, as recorded in the table, has been drawn from the atmosphere, or, to put it in an-other way, what proportion previously existed in the soil. The probabili-ties, however, are that the greater part of it is from the air. This as-sumption is made from the fact that sumotion is made from the fact that the increase in nitrogen content of soil, by the turning under of clover, has been found almost equal to the amount of nitrogen contained in the clover. Experiments conducted during the past three years show us that, by the decay of turned-under clover, the nitrogen of the soil has been increased on an average to the extent of \$5 pounds per annum. A consider-

system. From all points of view, it is undoubtedly a most valuable cover

The hairy vetch, though a growing plant, has given most ex-cellent yields—nearly 12 tons of folcellent yields—nearly 12 tons of fol-inge per ace, containing more than two tons of humus-forming material. This foliage is very rich in nitrogen, the crop containing nearly 150 pounds of this element per acre. It is, there-fore, a plant of high fertilizing value when turned under, in spite of the fact that it has a very small root system. Soja beans and horse beans, in point of nitrogen, fall behind the crops al-ready discussed. They are nevertheless important as cover crops from the fact that they may be sown in drills, and cultivation of the soil between the rows continues much later than if a

rows continues much later than if a broad-cast sown crop were used. They are also excellent snow holders

MAPLE SYRUP

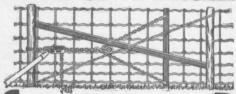
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In addition there is also a complete and very interesting description of the manufacture of fence wire. Persons who have never had the privilege of visiting a wire mill will find this article of especial interest.

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Published by The Rural Publishing Comone Public

I. THE CANADIAN DAIRYMAN AND FARMING WORLD is published every wednesday. It is the official organ of the Western Ontario, and Bedford District Quebe Dairymen's Associations, and of the Canadian Holstein, Ayrshire, and Jersey Cattle Breeders' Associations.

oy Cattle Breeders' Associations.

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THE CANADIAN DAIRYMAN AND FARMING WORLD PETERBORO, ONT.

TORONTO OFFICE Room 306 Manning Chambers, 72 Queen St. West, Toronto.

TIME FOR A FORWARD MOVEMENT

Ontario is ripe for a forward step in the interests of horse breeding, During 1906, the deputations of breeders who toured the province, and who met with the farmers and owners of stallions, found that there was need for an improvement in our methods of horse breeding. They found, also, that as a rule, our farmers realize the need for something being done, and that they are in sympathy with the movement looking for a betterment in prevailing conditions.

the government, has served to intensify this feeling by showing that numerous inferior and unsound stal- breed, still there are good individuals lions are being used throughout the in all breeds. We should seek to seprovince, to the great detriment of the cure one of the breeding of our choice

drafted a series of recommendations that they would like to see embodied in legislation. These recommendations have been discussed at the Guelph and Ottawa Winter Fairs, and through the public press, and on the whole, have met with general approval

This agitation, extending as it has over several years, has prepared the country for measures that should bring about improvement. It is time for the government to take hold of this question, and to deal with it in a comprehensive and broad-minded manner. Half way measures will not be satisfactory. Something more effective is required.

USE PURE-BRED SIRES

Go where we will, we find scrub stock of the most nondescript types and breeding. Worst of all, there seems to exist but little desire on the part of many to raise their standard, or to keep a better class of live stock It has been proven, times without number, that improved stock is, on the average, much more profitable than stock of inferior breeding. Why, then this indifference? Few, we venture, are engaged in caring for animals solely for their health. We all look for profits. We want, at least, a fair return for our labor and feed, and interest on our capital. If all are realizing this, then some are getting much greater returns than others. The results possible to one, within limits, are available to all who seek them, and follow in the proper course.

It is not necessary to have purebred stock. In many cases the possession of such is undesirable. To make a success of pure-breds, one must be a man of many parts. The business is a complicated one. However, there is no reason why something can not be done to improve the stock we have. There is no excuse for using scrub sires. A common herd, through the judicious use of carefully selected pure-bred sires, will, in a remarkably short time, greatly increase in value, as well as in its power to pay dividends upon the money invested. Good individuals, of almost any breed of pure-bred stock, can be obtained at reasonable prices. Why not invest part of this season's earnings in a pure-bred sire, one that will bring you profits, one that you will be pleased to show your friends?

Some are at a loss to know which breed to select. Their views keep changing in regard to breeds; as a result of which folly we have to-day throughout the length and breadth of the country, a most heterogeneous mixture of types and breeds. This condition is so general, that it quickly attracted the attention of the Scottish farmers now visiting here.

Good dividend paying stock is not a matter of any single breed. More The report that has been issued by depends upon individuality. While a greater number of good individuals may he found belonging to some one industry. Since then the members of to head the herd which we already well for good feeding, both winter vestment by this time.

our horse breeders associations have have, rather than practise indiscriminate crossing. At the fairs is an excellent time to

negotiate the purchase of breeding stock. At the larger fairs, especially, the breeders flock almost without number. There interviews can be secured with men who have the stock for sale, interviews, which were they to be secured at the breeders' homes, would cost heavily, in loss of time and travelling expenses. While stock shown at the exhibitions may not be the most desirable to purchase, such often resulting in disappointment when in the hands of the novice, still most breeders have stock at home the stamp and quality of which can be estimated from that shown. If dealing with a reliable breeder, one is quite safe in buying the stock unseen, and is frequently better off in leaving the selection to the breeder's judgment.

Properly selected pure-bred sires, when used in grading up the common stock, soon return the purchase price. Realizing this, let not the penny held close prevent the eye seeing the dollars farther off. Money invested wisely in this way is much better than in gold or Cobalt stocks, and is much more certain of yielding dividends.

THIS SEASON'S LESSON

The dairy industry has suffered very much from the feed scarcity of last winter. The real effect of this is now beginning to show itself. Up to August 19th, there was a shortage in cheese receipts of over 170,000 boxes. This shortage can be traced directly to the poor condition in which many cows began the season, and the fewer cows being milked because of many dairymen sacrificing their cows last fall, when the feed scare was at its height. Figured out in dollars and cents, at present prices for cheese, this shortage means a loss to the dairymen of Canada of over \$1,700,-000. The indications are that this shortage will be increased, rather than diminished, during the next few months, so that we may be safe in concluding that the loss to our dairymen on this year's operations, will be all of \$2,000,000, traceable to the feed scarcity and scare of last winter. With many farmers it was a scare more than anything else, and they stinted their cows unnecessarily.

But all that is past and gone. The effects are still with us ,and from the experience gained, dairymen will learn some useful lessons. Two million dollars would buy a lot of feed for dairy cows, even if prices were high. A quarter of that amount would have of dairying by poor cow feeding. alt gone a long way in buying feed last winter. In fact, had a couple of hun- ed, this season's experience will supdred thousand dollars been judiciously ply it. There is not a dairyman, expended by our dairymen last winter, in buying feed for their cows, this shortage in output might have been money by investing in sufficient feed avoided. Would it not have been a last winter to have kept them in good good investment? Expending \$200,- thrifty condition. With the rich pas-000 and reaping upwards of \$2,000,000 turage and high prices of this season, looks like pretty good business. There the cows would, in a very short while, making such returns.

and summer as the dairy cow. Dairy men would have been money in pocket had they made some sacrifices last winter, and kept their cows up to their usual condition, and not allowed them to run down, through lack of sufficient feed. There was feed in the country. It was very high in price, no doubt. It would, however, have been a good investment for the farmer depending upon dairying for the bulk of his income.

It was expected that after the cows were a few weeks on the grass, they would recover from the effects of the feed scarcity. But they did not do so, and have not done so yet, as the continued falling off in output shows. Moreover, they are not likely to recover from its effects for some time yet. A year or two's good feeding may be necessary to restore many cows to their normal condition. Truly, the effects of poor feeding are very farreaching, much more so than many realized last winter, when they placed their milch cows on short rations. The experience gained will be valuable if it leads to better feeding of dairy cows at all seasons of the year. We cannot afford to cut down the rations of our cows, if we expect to stay in the business and make a profit out of it. The milch cow should be as well fed during the month or two she is not giving milk as during the milking period. If she is put on short rations during that time it will tell, not only in her offspring, but in the supply of milk she will give during succeeding months. The lesson, therefore, of last win-

ter's experience, and the results so

far is that it does not pay to keep

cows on starvation rations, even in

a time of feed scarcity. We do not milk cows for the fun of the thing, though, from the returns some farmers receive, one would suppose that dairying was more of a pastime than anything else. But it is the money in the business that we are after, and there is big money in the business, too, if properly managed. It, however, takes money to make money. Like any other business, some expenditure is required to get a good return, and if we feed our cows well in season and out of season, we will make the most out of the business. The conditions governing milk production, make this necessary. A good cow, well fed, is a splendid investment; a good cow, not well fed, is a poor one, and a poor cow, poorly fed, is a losing game from beginning to end. How foolish is it then for any of us to expect to make money out cannot be done. If proof were needwhose cows began the season in thin condition but would have made is no other business in this country have made good the extra cost for last winter's feeding, and have re-No animal on the farm will pay as turned a good profit on the in-

Dairy Herds Competition

Dairy Herds Competition
The directors of the Western Ontario
Dairymen's Association, in a meeting
held recently, decided to offer \$100 in
prises and two Ryrie Bros. medals for
the dairy herds competition this year.
The matter will not be entirely settled
until the meeting of the full board of
directors to be held in Toronto the
second week in September.
The prizes proposed are as follows:
Cheese factory patrons; 1st prize, \$15
medal; 2nd, \$15 in cash; 7rd, \$10 in
cash; 4th, \$6 in cash; 5th, \$4 in cash.
For creamery patrons, 1st, \$15 in cash;
\$15 in cash; 3rd, \$10 in cash; 4th, \$6
in cash; 6th, \$4 in cash.
The rules of the competition are not
yet fully decided upon. The statements sent in by these entering the
ments sent in by these entering the
ments ent in by those entering the
westigated by a committee or by some
member of the board before the prizes
are awarded. The same individual
cows started with in the competition
must be the same cows at the finish.
In other words, no substituting will
be allowed. For cheese factory patrons, the prizes will be awarded for
the patrons sending the greatest
of aix months, not less than eigh;
cows to compete. For the creamery
patrons, the prizes will be athan eight
entering the greatest
of aix months, not less than eight
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a few sample copies to look over for himself. Then go back to see him simself. The go back to see him simself. The go back to see him simself. The go back to see him

what the farmers think of our combinwhat the farmers think of our combin-ed paper, reports that, in his opinion, The Canadian Dairyman and Farming World will secure over 2000 new sub-scribers in Peterboro County alone, in less than two years.

OUR READERS LIKE THE PAPER.

OUR READERS LIKE THE PAPER.

The following letters will give you an idea of the favor with which our paper is now being received:

I have taken your paper in without it. Although I have quit farming, I could not think of dropping my subscription to The Canadian Dairyman and Farming World. I think I will try and get some of your valuable prizes, if you will send me an outfit.

—Mr. John R. Calder, Esecx Co., Ont., World since it was first published. I like the new combined paper very much. I am not on the farm now, but I feel that I cannot do without the Daner.—Mr. I. Preston, Peterboro Co.,

like the new combined paper very much. I am not on the farm now, but I feel that I cannot do without the paper.—Mr. I. Preston, Peterboro Co.,

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Why do you not try to win one of these premiums? It should not be hard to induce people to subscribe for hard to induce people to cube-ribe for a paper with a reputation of this kind. If your neighbor is undecided as to whether he will subscribe or not, point out these letters to him, also the many others which have already appeared in our paper. Draw his attention to the output of the paper. Draw his attention to the a few sample cope per and give him as few sample cope per subscription. "Keep on keeping on" is a splendid meto to follow when you are trying to get up a club of subscriptions for a per subscriber. Do not think of the works on the prize, but think of the prize you are working for. Here is a letter which we have just received from one of our subscribers.



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SEND FOR OUR NEW CATALOGUE, IF INTERESTED.

GOOLD, SHAPLEY & MUIR CO., Limited, BRANTFORD

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

Zeeeseeseeseesee

tain is of no use whatever. In a very short time it becomes clogged with dust and becoming practically air-tight, defeats the purpose for which it is intended, i. e., admitting fresh air at all time.

Poultry Houses and Fittings

J. R. Terry, Poultryman, O.A.C.

During the last three years, experiments have been conducted at the Poultry Department of the Ontario Agricultural College, to ascertain daries the State of State of



Experimental Poultry Houses at the O. A. College

nouses have been under test for three years. The cheap, cold air house, with a double pitch roof, has given the best results. See adjoining article.

information has been gained during mate. The prices of building material this time, the period occupied by these experiments is not yet sufficiently long enough to enable one to draw absolutely conclusive data.

The houses built for these experiments consist of four built with equal mumber in one cannot get the maximents consist of four built with equal flowers. It is not not consisted to the double pitch pattern.

Each house is divided into two pens structed on the double pitch pattern.

Each house is divided into two pens tructed on the double pitch pattern.

Each house is divided into two pens the pensengency of the pensengency o structed

structed.

From the deductions drawn, if I were to build a house to accommodate 80 hens I should build the roof double pitch rather than single. The single roof has been found to be much warmer in summer, and the reverse in winter. I should make it 7 feet from floor to selling or stray loft. Place winter. I should make it 7 feet from floor to ceiling or straw lott. Place a door in the east end coming down to within one foot of the ground. This is important, for when so constructed less snow remains to be shovelide less snow remains to be shoveled on the should be should be should be should be easily to winter. The foot board could, we have the should be should be should be should a wheelbarrrow, etc., when needed for cleaning out.

wheelbarrrow, etc., when needed for cleaning out.
Rather than use double doors as is generally advocated for cold houses, I would always use muslin curtains, reaching from eave to within two feet of the floor, the rest would be boarded up. This helps to sheller the birds from draughts whilst the curtains are up in winter. The muslin used needs to be of the cheapest or thinnest kind, if one wishes to get the best results. A thick cotton cur-

30 instead of 50. I am well aware, that Leghorms are supposed to need much less room than heavier breeds, but if you want eggs cand who does but if you want eggs cand who does on the supposed of the suppose

Judging Eggs and Poultry by Points

A new feature in the Utility Poultry Club Year Book is the publication for the first time of the following standard which has ben decided on for use in the judging of eggs:— 40 points Size 15 noints

ing tests are suggested :- Size of air space, density of albumen, firmness of chalazae, toughness of yolk, and by the freedom and completeness with which contents leave the shell when

Pointers

Every little detail tells in the result desired, and success in poultry raising depends almost entirely on attention to the smaller details.

The best breed is the one you have tested and tried as the one most adapted to your section and for your purposes. There is no best breed otherposes.

Never mind the new breeds, Take good care of what you have. It is better to improve the old than ex-periment with the new. There is good in all breeds, and it is up to you to get it out of them.

which has ber decided on for use in the judging of eggs:

Freshness. 40 points Size . 15 points Texture of shell . 15 points Texture of shell . 15 points Uniformity of size, color and shape . 16 points Cleanliness and bloom . 16 points Eggs to be passed over if (1) they rattle in shell; (2) are double yoked; (3) contents are tainted in any way; (4) are artificially colored; (6) are polished. In judging freshness the follow



Don't Bite

on Discounts" and "Free n"are familiar baits. They to the "something-for-ig" class, and therefore are avoided. Only schools that

The British-American **Business College**

Yonge and McGill Sts., Toro and you will have no regrets.

Fall Term begins Sept. 1st.
Write for Catalogue.

T. M. WATSON, Principa,

Creamery Department

Making Exhibition Butter

Miss Laura Rose, Wellington Co., Ont.

Every fall I get letters from people asking me to give them suggestions regarding the making of exhibition butter. I thought the hint I give to the few might perhaps be appreciated by the many whose ambition leads them to try for the butter prizes, and perchance add to their fame as butter makers, also a few dollars to their spending money. It is a worthy ambition to help on the fairs in this way and if entered into with the right spirit leads to a wholesome rivalry With the greater redimenent manifest in all phases of living has come a more fastidious taste in regard to butter. Of this change no one is in closer touch than the expert judges Every fall I get letters from people

closer touch than the expert judges who isit the fairs. They know what the sest buyers in the market are de-manding and make the awards to the packages coming nearest to the re-

Year by year the desire for a highly flavored butter has lessened and now that butter which scores highest, has a very mild creamy flavor—one would almost say a lack of flavor were it not so pleasing and clean-tasting to

This flavor is brought about by having the cream with a low percentage of acid in it. In other words with a very mild sour taste. Apart from the acid in the cream, the flavor may be acid in the cream, the flavor may consider the control of the cream of This flavor is brought about by hav-

HOW TO PASTRURIZE

HOW TO PASTRURIZE
If there is the least suspicion of any objectionable flavor being in the cream due to feed, unclean milking, etc, it is wisdom to pasteurize the cream. The method has been often told but it may be best to repeat it. Heat the cream to 160 degrees by setting the can in a vessel of hot water and hold at that temperature for 30 minutes. A higher temperature is now recommended but it and to give a cooked A higher temperature is now recom-mended but is apt to give a cooked or boiled milk flavor to the butter, so for exhibition work I would be on the safe aide and not go over the 180 de-grees. The cream should be stirred while heating and after standing the half hour should be quickly cooled to 60 degrees or lower. Should cream per emt. good culture added to it, and should be ready for churning the next day. ext day. Hand in hand with the mild flavor

> Black Watch

Chewing Tobacco Rich and satisfying. The big black plug.

has come the desire for lighter colored butter. A clear straw color meets the taste of the fastidious. I have known butter to be scored severely when the

taste of the fastidious. I have known butter to be soored severely when the cow alone had been responsible for the high color. However, with the careful judge it is the evenness and clear-ful judge it is the even full that the full judge it is the color of the colo

find from experience with cream that the temperature which will bring

find from experience with cream that the temperature which will bring the butter in that time is right. Just before drawing the butter-milk add some cold water and revolve the churn a few times, rapidly. This frees the butter-milk from the butter, and it will drain away much more readily. Rinse down the butter with a little of the wash water, then wash but of the arms and gives it an insipid flavor.

SALT LIGHTLY

Light salting is also another requirement of the high-class market. It is not desirable to hide the sweet, creamy flavor with salt, neither is it necessary to use excessive salt to keep the butter for it is supposed now to soon reach the construction.

to use excessive salt to keep the butter for it is supposed now to soon reach the consumer.

With small churnings, I prefer when making exhibition butter, weighing the butter and salting it at the rate of § os. a lb. This is ror prints for the home marked. If you the butter a slight working, Allow it to stand two or three hours, but do not let it become hard. At the end of this time give it another working, using pressure only, as a sliding, rubbing motion produces a greasy texture. Only work sufficiently to expel excessive moisture and to insure an even distribution of the salt.

Use the best of parchment paper and have the package entirely free from holes and neadly wrapped. Avoid all fussiness.

all fussiness. See that the butter is thoroughly chilled before taking it to the fair, otherwise it is impossible for the judge to pull out with his trier a nice smooth plug of butter from the print. Many a good butter maker does not get the high score she should because the print of the print. Many a good butter from the print. Many a good butter maker does not get the high score she should because he had not figured before

not get the high score she should be-cause her butter had not firmed before coming to the fair. It is always best to make the butter early the day before it is to taken to the fair. I consider it gets a better texture and flavor by being at least a day old before being submitted to the trier of a judge.

Losses in Butter Making

More or less loss of the solid ma the making of butter. This is shown by the fact that the sum of the solid ingredients found in the products by the fact that the sum of the solid ingredients found in the products (butter, skim and butter milk and slops) does not equal the amount in the whole milk used. This loss if alls almost entirely on the fat. The casein and abumen, milk sugar and ash in the products check fairly well with those in the original milk, well with those in the original milk is inversely proportional to the amount of milk used and to the care taken in its handling, decreasing relatively with increased volume of milk handled and with greater care. The loss is a purely mechanical one, due to the greater viscosity of cream as compared to skim-milk. If the cause were chemical or biological as great is just in a condition to absorb bad proportional destruction would ensue Harvors. In the separating process the

with large as with small lots of milk. The mechanical losses in 22 days' survey of the operation of a small creamery approximated o.o per cent.

Pasteurizing Essential

Experienced dairymen who have looked into the dairy practices of Denmark state that they do not excel, and mark state that they do not excel, and in some instances are not as up-to-date as those followed in other dairy coun-tries. Types of dairy utensils and machinery described by dairymen in Australia, the United States and Ca-Australia, the United States and Canada years ago as being out of date, are still in use by the Danes. And yet, they excel all other dairymen in the uniformity and good quality of their dairy products. This is especially true in butter-making. Danish butter in Great Britain is the standard by which all other butter is judged. The butter from other countries ranks second to Danish, rarely equal to or ahead of it.

The butter from other countries ranks second to Danish, rarely equal to or ahead of it.
What is the secret of the Dane's success? It is pasteurizing. Whatever defects there may be in their system of making butter they cling tenaciously to pasteurizing. The Danes would no more think of making butter without pasteurizing the cream or milk than of growing grain on the sands of the butter-making system. Every creamery and every butter-maker practices it. They look upon it as just as necessary in butter-making as ripening the cream. Pasteurizing more than any other thing is responsible for Demmark's high standing in the butter-markets of the world.

Pasteurizing has been before the dairymen of this continent for many years. Every dairy authority recommends it and advocates its adoption. And yet how few creameries practice

mends it and advocates its adoption. And yet how few creameries practice pasteurizing the milk or cream in butter-making. In Canada we are constantly agitating for better care of the cream and milk, a very necessary thing in making fine butter. But we fail in adopting a practice that would help to overcome the effects of bad fail in adopting a practice that would help to overcome the effects of bad cream. We do not mean by this, that less attention be given to the care of the cream. Every patron should be urged at all times to give the best of care to the cream he supplies his oreamery with. Cream, however, received from a hundred different persons giving it the best of care cannot use the contract of the contract o quality of butter.

Better Cream Needed

Too much cannot be said on the Too much cannot be said on the question of separating and caring for cream at the cream gathering creameries. It is a string that cannot be played upon too often in the present condition of the butter business. Cleantiness is at the root of the matter. Keep the cows clean and in clean places. Let the milker be clean, his clothes as well as his hands. Clean the udder before beginning to milk, and milk with dry clean hands.

More patrons are weak in separa-tor management and handling the



es at Montreal, Calgary and Wir

exposed to the surrounding air. It passes through the separator in a fine stream, every particle coming in touch with the separator. If the latter is not clean and free from taint, the milk, or rather the cream, is sure to be affected.

Is sure to be affected.

There is too much hin, sour cream being supplied. This is due to improper separating. A richer cream should be secured. It will keep better; there will be a smaller amount to keep cool, less load for the driver, and less bulk for the butter maker to handle. The better quality of cream will insure better butter being made and a better financial return to made and a better financial return to patrons.

Many creamery patrons lack proper cooling facilities. Some patrons seem to think that the buying of a cream separator will enable them to do with-out ice. But ice is just as necessary separator will enable them to be sup-out ice. But ice is just as necessary for cooling the cream as it was for cooling the milk to facilitate the rais-ing of the cream before the separator was bought. Ice in plenty should be supplied for cooling the cream as soon as separated.

"I have visited all the creameries in Eastern Ontario twice this season and I have found that a majority of the butter makers are taking The Dairyman and Farming World. They take great interest in the paper."—Jas. Stonehouse, Government Creamery Inspector for Eastern Ontario.

Windsor Dairy Salt -the Butter-Salts makers' thorfavour oughly. No lumps or grittiness.

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER CHEESE AND BUTTER FACTORY FOR SALE, cheap, and doing a good business. in Woodstock district. Apply, J. H. Williams, Embro, Ont. E-9-30

OWNERS OF CHEESE FACTORIES AND CREAMERIES desiring to make direct ahipments to Great Eritain, will have an opportunity of meeting a large Brit-ish importer in July. Further particu-lars may be obtained by writing Box F. Oanadian Dalryman and Farming World.

WANTED—A YOUNG MAN to work in cheese factory; with some experience preferred. Must have good habits, and be willing to work. Give references and tate wages, with board included. Bot in Canadian Dalryman and Farming World, Peterboro.

Better the Bu

Give it that delicacy of flavor which adds to the original tastiness of the butter without taking from it, by using fine nure Salt

> Salt that dissolves at once Salt that works in evenly, easily, quickly Salt that does not cake or harden

Windsor Salt

Every grain is a perfect crystal, with all its natural strength preserved. '-. '-. '-. And, because it is all salt and strong salt, less gives a better flavor to more butter than other brands. It is acknowledged to be the finest and purest. '-. '-. '-. '-. '-. Used for years by prize-winning butter makers at the leading agricultural fairs. " -. '-. '-. In spite of the fact that it goes farther and betters the butter, Windsor Salt costs no more than any other salt, '-. '-. '-. '-. '-. '-. For the same reasons of strength, purity and fineness, Windsor is the best Table Salt. '-.

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PARCHMENT PAPER

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St. Lawrence Dairy Supply Co.

21-23 St. Peter Street Montreal, P.O. The Story of What One Man did to Help His Section.

to Help His Section.

A story of how the farmers in "California." a small section in Leeds County, Ontario, were aided in making a success of their farms and led to take up dairy farming was told to a representative of The Canadian Dairyman and Farming World recently while he was driving in that county. As the story reflects considerable credit on Mr. J. R. Dargavel, of Eigin, the member for Leeds in the Ontario Legislature, and the possible successor of Honorable Nelson Monietith, as Minister of Agriculture for Ontario, it will bear repetition.

teith, as Minister of Agriculture for Ontario, it will bear repetition. "California" is a small section in Leeds county, that is hemmed in by a range of hills and by part of the Rideau Canal. The post office is Jones' Falls. It comprises a section of good farming land about four miles square on which there are now num-erous well-kept and profitable dairy

farms.

Thirty or forty years ago the farmers in the California section derived their main revenue from the sale of logs and tan bark. They were not very prosperous and found it difficult to earn a good living. About 20 years ago the supply of timber had become nearly exhausted and the resi-

up they sold their cows in order that they might have a little ready money. When spring returned, they again were without cows and thus were un-able to patronize the cheese factory. They hated to go back to Mr. Dur-gavel for further assistance. Again, however, he came to their rescue and furnished them with cows. Each

however, he came to their rescue however, he came to their rescue and furnished them with cows. Each year conditions improved somewhat but for four years in succession Mr. Dargavel helped those who could not get them. The property of the

County.

This is the story of one section and of the good work of one man. Is not that the type of man who should make a splendid Minister of Agriculture.

ago the supply of timber had become nearly exhausted and the residents of the section had no resources to fall back upon for their living.
For over 40 years Mr. Dargaven, other to the back of the sociation of the sate of the section of the sociation in Alberta, 49 are located north of Dairymen's Association, has get given a clearly the toth being located at general store in the village of Eigin. Pincher Creek.



A Prosperous British Columbia Creamery

The patrons of this creamery last year realized an average price of 30 cents lb. for butter-fat, after deducting all expenses. The make was 219,689 lbs. butter-

ih for butter-fat, after deducting all exp
Understanding the position of the
farmers of the "California" section,
for the control of the cont Understanding the position of the farmers of the "California" section,

It is flavor that gives butter its appearance. This quality causes butter to sell higher than lard, tallow, or any of the other fats.

Milk has all the ingredients that go to make up good flavor, in butter. Where care and cleanliness are ob-served the flavor will be all right.

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Our British facilities give us an unexcelled opportunity to pay

HIGHEST PRICES

BUTTER and CHEESE

Cheese Department

esemaking and iscussion. Address is Maker's Department

Suggestions for September Cheese-Making

G. G. Publow, Chief Instructor and San Inspector for East Ontario

Inspector for East Ontario
The quality of cheese desired by exporters for the month of September is in no way different from that of other months. They, however, look for cheese with better keeping qualities, as those made during the latter part of the season are usually held in storage to supply the trade of winter months and early part of next season, before freshly made cheese and the part of the state of the season are usually held.

A long keeping cheese should have

are fit for consumption.

A long keeping cheese should have the following characteristics. First, it should be clean and sound in flavor. Second, the body should be firm and the texture close and meaty. Third, The color should be bright and uniform. Fourth, finish should be neat and attractive.

PRECAUTIONS ESSENTIAL

Special attention should be given towards securing a clean milk supply and to the careful use of reliable commercial starters. It is upon these two points that cheese flavor largely depends and which are frequently neglected. glected by makers, especially during the closing part of the season. To insure good body and texture it is essential that the curd be so firmed in the whey that it is springy and elas-tic by the time sufficient acid has developed. This season during Sep-tember we are likely to have no difficulty in securing such a quality if the following points are kept in mind: the following points are kept in mind:
1st. The supply of after-grass is very
abundant and high in water content.
2nd. For the above reason curds will

ture.

SET THE MILK SWEET

To guard against this it is necessary to set the milk sweet, cut the curd evenly and fine, and stir out all free moisture at the time of removing the whey. Too much importance cannot be given to having the curd in proper condition at this stage, for if such is obtained, and the curd well matured before salting, there should be little danger of further trouble. To obtain the best results in finish

and closeness the cheese should be turned in the hoops every morning, and the pressing continued for two

The prevailing high prices being of-fered for fancy cheese this year should be a stimulus to both patrons and factorymen to do everything possible to furnish the buyer and consumer with quality of such a standard that the demand would be increased or at least maintained.

Improves the Value of Whey

Improves the Value of Whey Editor, The Dairyman and Farming World.—Our patrons consider that pasteurizing the whey increases its feeding value to the extent of the cost alone. Besides the eans are much easier washed with sweet whey being returned in them at a temperature of 110 degrees free from grease, than with sour whey. It also has a desirable effect upon the flavor of the cheese.

cheese.
Judging from my exeperience I am
thoroughly convinced that where the
whey is properly pasteurized, "bitter"
flavor cannot exist.—R. A. Thompson,
Cheese Maker, Elma Factory, Western

Experiments at Rideau Factory

The nature of the experiments that are being conducted in Rideau cheese factory, Smith's Falls, by the Dairy Division of the Dominion Department Division of the Dominion Department of Agriculture, were explained to a representative of The Canadian Dairy-man and Farming World, while in Ot-tawa recently by George H. Barr, who is conducting the experiments. Aris conducting the experiments. Arrangements have been made with two farmers to send their milk to the factory by which the Government takes entire charge of the evening's milk from their farms. The morning's milk is sent to the factory by these patrons in the usual manner. these patrons in the usual manner. The department is experimenting to find the results of cooling the milk in different ways, such as with an aezator, and cooled by the use of ice, and so forth. The milk thus cooled is manufactured in separate vats at the factory that have been placed in is manufactured in separate vats at the factory that have been placed in the factory in unclean and rusty cans, in order that the effect of such cans on the milk may be determined. The regular periods in the factory in the regular periods in the supply of milk.

Speaking to the representative of The Dairyman and Farming World, Mr. Barr said: "We intended to make an 80 lb. cheese each day, and

make an 80 lb. cheese each day, and to use the milk sent by four or five patrons. We found, however, that it was impossible for us to watch carefully enough the milk sent to us by tolly enough the milk sent to us by so many patrons. For instance we described to one patron just how we wanted him to cool his milk by means of ice. When, however, we came to make up his milk we found that the

require special attention to prevent cheese was gassy. This man stated the too rapid development of lactic that he had followed our instructions acid in the early stages of manufact to the letter. I am convinced, how-

to the letter. I am convinced, however, that the can containing the ice
was placed on the ground before it
was sunk in the milk, and that in this
way contamination got into the milk.
We now take charge of the milk ourselves as soon as the milking is over.''
Mr. Barr stated that during September the test may be made of the
new caseln test. One or two informew caseln test. Ohe or two infortest have
been made. Mr. Barr states that the
test is a nice one. test is a nice one

It is almost impossible to carry on a culture and keep it in the proper condition without an acidimeter. An acidimeter is of great assistance in cooking

It is estimated that there is about 25 per cent. of the patrons of cheese factories who need to be taught or forced to take care of their milk. The 75 per cent. have enough interest in the business to take care of the milk with the milk wit without much urging.

\$16,000

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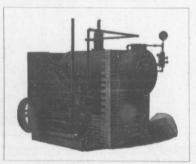
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COULD COLD STORAGE COMPANY. Grey Nun and William treets MONTREAL - QUE.

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- There are two separate wheels, one for pulping and the other for slicing. The united force of both wheels is always used in doing the work in either ca-
- The hopper is between the wheels, and does not choke.

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Tolton Bros., Limited GUELPH, ONTARIO





NDEAVOR to be patient in bearing the defects and infirmities of others, of what sort soever they be; for thou, thyself also, hast many failings which must be borne with by others.

Thomas a Kempis



A Little Child Shall Lead Them

ence greeted the conclusion of another report. The surgeon-in-chief arose, glancing apprehensively at the bulky manuscript held ostentatiously in John Schaeffer's hands. Nevertheless, he smiled deferentially. "And now we will listen to the report of—"he bow-ed courteously—"our brace maker, Mr. John—"

John Schaeffer's chair creaked sud-John Schaeffer's chair creaked sud-denly and ominously, and seemed fair-ly to oust him to the centre of the platform. He waved his manuscript excitedly in the astonished surgeon's face

face. "Brace-maker!" he snarled; "I am a brace-maker! Yah! Scissors grind-er, I suppose! Machinist! Common mechanic! Dot's what I am! You t'ink dot? Bah!" He snapped his fingers and wheeled upon the medical

staff. "Fools! Dondereads! You, mit your know-not'ing heads and hands-who houngle all dot I do-who cannot do what I do, you t'ink I am a br-brace maker? So! Den-I tell you vot you are!" and John Schaeffer gave his opinion at length.

opinion at length. The audience, stupefied at first, showed sudden signs of disturbance. As Mrs. Henry Goldfogle, chairman of the Committee on Linen and House Purchases, caught the significance of certain German oaths, the benevolent control of severe disapproval, and with a heavy rustle of silks she arose and sweept from the room.

nevertheless, who has done more for orthopedic surgery than any man, living or dead."

After the incident of the annual meeting John Schaeffer was rarely seen in the hospital wards. When he did appear it was to correct and gloat over the mistake of a surgeon or

From morning until night he toiled From morning until night he toiled away in his laboratory, a weird room in the hospital basement. Its walls were lined with pluster casts of distorted legs and arms, exhibiting apparently every species of human malformation. With its grizzled, snaring inmate the room looked, for all the world, declared an imaginative assistant, like the "lair of a pman-eating lion. Me boss," he averred, "has no heart whatever; as for his brain, if you open his skull, you'd find it already conforming to the shape of a brace."

Every evening after work, John Schaeffer went to a German restaurant and then directly upstairs to a hall bedroom. It contained a folding ant and the analysis and a folding bed, a foot-lathe, and a large chest filled with tools and bits of brass, steel and leather. Here were his means of relaxation and his chosen environment. "Vot I know, I know," it was his custom to state. "Dere is

THE annual meeting of the big orthopedic hospital was in progress. Governors, trustees, women's committees, packed the small auditorium to the very doors. Upon he platform in front sat stiffly the entire medical staff, from the four famous-consulting surgeons down to the junior house surgeon. At a respectful distance from the latter was seated the supervising nurse, and at a still greater, and disrespectful distance, lounged defiantly John Schaefer, inventor of braces for crippled children,—in the words of the enthusiatic house surgeon, "the original orthopedic man of New York, and the greatest crank in America."

Two hours had already elapsed, and a soft sign of content from the audience greeted the conclusion of another report. The surgeon-in-chief arose,

"You Bring my Chonny back?" he cried, "You Bring my Chonny Back?"

from annual meetings, saw his huge, laboratory late one morning he seiz-ungainly figure disappear violently led a brown paper pattern from his through a side door.

heavy rustle of silks she arose and swept from the room. Which is said and support through a side door.

Miss Sarah Sterling Watts, chair man of the Committee on Free Beds, beat also a swift and mincing retreat, her chin pointed high in the air. Others, not acquainted with the German to the configure, but realizing intuitively that once the relating his hand, recovered carefully the ers, not acquainted with the German to the configure, but realizing intuitively that month later before the Academy of the meeting had suddenly become no place for ladies, developed expressions of mild purity and walked out with determined tread.

One of the famous surgeons held one of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held and some fool, eh?" The assistant replied the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held anatomist, a man without a degree of the famous surgeons held have for the famous surgeon of the famous

laboratory late one morning he sele-ed a brown paper pattern from his desk, and eyed it fiercely. "Ha!" he exulted, "some fool at work again, eh?" He turned to his

regretted his indiscretion. The German turned upon him angrily.

man turned upon aim angray.

"Vat you doing?—mending braces,
or minding my business? Then do
it!" he roared, with the ambiguous
injunction he slammed the door and
hailed an elevator. "Up, quick!" he

ordered.

The nurse in Number Four, the bone-tuberculosis ward, smiled easily at the excited German.

"Vot back fits dis?" he demanded.

"Vot back fits dis?" he demanded.

"Vere iss he? Who made it? Now, I catch somebody, et?"

"That's for Johnny Connors, right behind you. Don't you know our Sailor Johnny?"

John Schaeffer wheeled about and faced a little white bed, from the pil-low of which a chubby baby face and two large brown eyes regarded him two large brown eyes regarded with the covers she revealed with the covers she revealed with the covers she revealed to a fight casts and braces.

John Schaeffer saw only the braces.

John Schaeffer saw only the braces.
Casts he did not believe in. And a
human body to his mind was simply
something that went into a brace,
and should fit it with mechanical pre-

and should fit it with mechanical precision.

Using only his big, gnarled thumb he turned the child roughly over on his face, and laid the pattern hastily along the spine. There was a cruel, sharp hump just under the shoulder-hand, as nearly as one could hadge, the sharp hump is the shoulder hadge, the sharp hump is the sharp hump in the sharp hump is the put that brace on until a new one could be made," explained the nurse. "Oh, he did, eh? Vell, take it off." When the bare spine was revealed, he placed the pattern over is and squinted along the line of union. It fitted perfectly. "Vell," said Schaeffer testily, "I have never yet seen such a back." He ran his thumb heavily down the crooked bone.

A muffled groan arose from the pil-

A muffled groan arose from the pil-ows. "Easy, mate," cautioned a faint

"Who said dot?" said Schaeffer quickly, looking at the nurse and doc-tor. The nurse smiled and nodded at

the pillow.

John Schaeffer turned over the tiny form and looked again into two brown eyes. The boy mouth, pressed hard by the stiff brace under the chin, moved crookedly in one corner, and the same calm voice said resentfully.

"That hurt."

"Sea" and the same calm voice said resentfully.

the same calm voice said resentfully. "That burt," "So?" queried Schaeffer absently. He still peered intently into the brown eyes, as one making a remarkable discovery. They had long, dark lashes, he noted, which curled up to the eyebrows. The forehead was low and white, and swept with golden hair, Schaeffer slaw, All these thines J ha Schaeffer share, and swept with golden hair, Schaeffer will be there was the control of the share of the shar

back. He dragged a chair to the bed-side with exaggerated energy. "I vill attend to his—brace; you leaf me alone," he added warningly, turning to the bed.

nd smiled gratefully at him. "Shall

and smiled graterary.

I sing you a song?'

"A song," gasped Schaeffer. He
looked about him unearily, but none
of the nurses were paying any attention to him. "Sure, go alfiead," he
to to the source of the sour

of the nurses were paying any atten-tion to him. "Sue, go affead," he said. "Vat you got?"

The mouth struggled bravely with the awkward chin-brace. "Vait," com-manded the listener, and reached along the straps behind the head. "Now, so," he commanded; "how's dot?"

dot?"
A gay little treble began promptly:
"Take me back to New York town,
New York town, New York town—"
John Schaeffer, his hands on his
knees, listened hungrily until the last
piping note was sung. Then he gave a
vast sigh. "Yell, py golly," he ejaculated.

lated.
After a minute's silence he asked:
"Chonny, haf you got a mudder?"
The boy shook his head.
"Nefer had one, I suppose;" John
Schaeffer tried to smile, but the effort
cost him a severe facial spasm.
The boy shook he

cost min a severe facial spasm.

The boy shook his head again. "My father has a wife—
"Vat!" said Schaeffer.
"A new wife," he continued calmly.
"I don't like her. She's mean."
"How old are you?" asked Schaeffer suddenly.

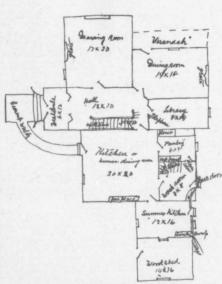
fer suddenly

"How old are you?" asked Schaeffer suddenly.
"Seven years."
"And so liddel!" murmured Schaeffer looking at the tiny, shriveled body. "You got a fadder? Don't you like him?"
"Yes," said the boy indifferently; then his eye brightened. "I got an Uncle Mart. He brought me here. He's a great man. He's a sailor. "They may be the sailor." English of the sailor. "English of the sailor." English of the sailor. "English of the sailor. "English of the sailor. "English of the sailor." English of the sailor. "English of the sailor. "And the sailor sailor song." Schaeffer was regarding him oddly, "And you going to be a sailor, eh! He looked again at the crippled, wasted body, and apostrophized the wall. Ain'd it hard! Ain'd it hard!" His voice rose angrily. "Vat right have people to haf kids—and spoil dem." Ain'd it a shame? Ain'd it ferre? Ain'd it of the sailor sailor.

Another Interesting Home

ALTHOUGH not a prize winner in our Good Farms Competition held last year, Mrs. A. F. Jackson, of Downsview, whose farm house soored the most of any in the





First Floor Plan of the Home of A. F. Jackson, York Co., Ont. Mr. Jackson's Farm won Sixth Place in our "Dairy Farms" Competition last year.

competition, writes us an in- of the house-work, was just in order. teresting letter regarding her home, As this occurrence takes place in the and sends us the plans of her house spring and fall in nearly every home. spring and fall in nearly every home, a word or two from Mrs. Jackson's letter regarding it may not be out of place. She says: "Housecleaning can place. She says: "Housecleaning can be made easy by getting ready before hand. Bed-preads, pillow shams, curtains and all covers of dressing cases can be washed and done up and

laid away until the cleaning is over."

In speaking about her home, which won the first place in the Good Farms Competition, as regards the score of points awarded to the houses, Mrs. Jackson writes: "Our kitchen, pantry, wash room and summer kitchen, have hardwood floors, which are easily kept clean and by oiling them every three months, they are always kept in good order. I would not like to be without hardwood floors in these rooms. our hardwood floors in these rooms.

I use the home-made hooked rugs,
which are easily made and can be
made very attractive and bright. We
have been staining our floors and using rugs on some of the rooms. Imitation of hardwood is very nice with
own russ and is certainly a labor. good rugs, and is certainly a labor-saver when it comes to keeping the floors clean

"Referring to the plan of the first floor of my house, you will notice that the pantry off the kitchen is exceedingly handy. It is very complete with cupboard, shelves and flour box. We go into the cellar from this pantry as will be seen by the illustration.

UPSTAIRS CONVENIENCES

"The bath room upstairs, although in a remote corner, is fairly conveni-ent to all the bed rooms. Our sitting m upstairs is a room much enjoy

A quick shot

A man who prepares to go hunting exawake and alert. He cannot afford to be asleep himself when selecting cartridges.

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DOMINION AMMUNITION

ed by us all, as are the numerous clos ed by us all, as are the numerous clos-ets in the various sleeping rooms. The wash room down stairs is also exceed-ingly convenient. We hang in this wash room, the clothes that we use every day. Our house is heated with a hot air furnace, and we can keep it very comfortable in the coldest weathwith about only six tons of coal. the attic we have a store room and a soft water tank from which we get our supply of water for the bath, also the wash room.

OTHER COMFORTS IN THE HOUSE

"We have an open fire place in several of the rooms, and a telephone is conveniently located in our library. It will be noted by the plans that we have a summer kitchen in which we have a sink and a pump. We eat in our winter kitchen, or summer dining room, and the men come in from outside to the sink in the summer kitchen, wash there, and pass on into the summer dining room to eat, without going through the rest of the house, which is a great convenience to me.

INEXPENSIVE DECORATIONS

"I believe in using nice light colors, but not expensive, wall paper, and changing it often. The effect of new paper once every year or two is mar-velous, and well repays the extra

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work. Alabastine, which is so widely afford without being extravagant, advertised at present, makes a nice large good, harmless games both for coating for ceilings, and is also, I winter and summer, such as teanis, find, a good germ destroyer. I like is better than paper for ceilings, as in diding, and do not restrict indulgence in these pastimes, off when new paper is destroyed in these pastimes. The believe graph is the pastimes would install telephones. We that you can, and also in the old Sulfare for the control of the other members of the household.

OUR READING MATTER

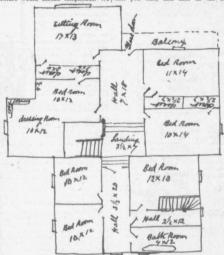
"We are constant readers in our three believe graphs in the believe graphs." It is the summer such as the following papers: The control of the other members of the household.

OUR READING MATTER

"We are constant readers in our three believe graphs." It is the summer such as the following papers: The control of the other members of the household.

OUR READING MATTER

"We are constant readers in our three believe graphs." It is the summer such as teanis, and the paper is the following papers: The control of the other members of the household.



Second Floor Plan of the Farm Home of A. F. Jack

Second Floer Plan of the Farm Home of A. F. Jackson, York Co., Ont.

are expecting an electric line through here soon, and then we hope to have electricity, buts doing away with electricity, buts doing away with electrining of lamps and lanterns.

There are so many improvements that we intend to make that I dare not mention them.

ATTRACTIVE HOMES

"We as parents should do all we can to make the home life so attractive that the boys and girls will not care to leave the farm. Furnish the house as nicely as you can possibly of tobacco, as it ruins the health, be-

"We are constant readers in our home of the following papers: The Christian Guardina, The Trotto World, The Farmers' Advante, Jersey Rulletin, The Horse Review, The Sportsman, and last, but not least, The Canadian Dairyman and Farming World. I dare not write you any more, as I have already taken up too much space in your valuable paper, which, we think is improving all the time."

time."

Surely the inmates of Mrs, Jackson's home must be happy, when they evidently have such a good ruler over them. Mrs, Jackson's family consists of five children besides extra help on the farm. That she is busy and still has time to improve her home, her chowing for a good Canadian mother.—Editor.—Editor. -Editor

What Would an Inspector Find at Your Farm?

On most dairy farms, where cream is produced, the men are expected to turn the separator, but the women have to wash it afterwards, and to care for the dairy utensils. Sometimes, in the rush of farm work during the summer months, there is a temptation not to pay as close atten-tion to this work as we should. The careful washing of the separator each time it is used is just as necessary as is the washing of the dinner or Supper dishes.
Strange, as it may seem to some

Strange, as it may seem to some, so far have things advanced that in Ontario, and in many other sections, those people who neglect to wash their dairy utensils thoroughly and promptly after use, break the law. As will be described in a future issue; the Ontario Government has appointed an official to visit the homes of pat-rons of creameries to see how they care for their separators and dairy utensils

A SURPRISE VISIT

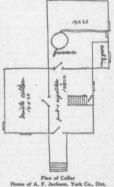
The Government inspector, Mr. Jas. Stonehouse, of Port Perry, accompanied by an editorial representative of The Dairyman and Farming World, recently called, without warning, at the homes of a number of farmers in the Peterboro section. In most cases it fell to the lot of the women to show In most cases

Mr. Stonehouse what he wished to see, and to answer his questions. To their credit, it may be said, that in the majority of cases, everything was found to be in excellent condition. Taken unawares, as they were, it was seen that they are good housewives. Where things were not all that they should be, there was nearly always some reason for the lack of proper care that was found.

CONDITIONS ON THE FARMS

The following is a description of the main points noticed at the different farm homes visited: Patron No. 1.—The conditions for

Patron No. 1.—The conditions for caring for the cream were all that could be desired. The separator was a new one and was spotlessly clean. The cream-scarcely tested 20 per cent. Mr. Stonehouse explained the loss that was being entailed by skimming a thin cream, and adjusted the separator to skim a thicker cream. When the control of t



Home of A. F. Jackson, York Co., Ont.

caught.

IMPROVEMENT NEEDED

Patron No. 3.—The visitors were well received but things could not have been in a worse condition. There was some excuse as there was a new-born infant, and much of the work had been left to the men. The place was besieged with flies. Chickens partook of the hespitality of the living room. When the wood shed was visited, before the separator might be seen, the odor proclaimed that the separator had not been washed that day. The separator bowl was found to be full of



mention the name of this publication when writing to advertisers

milk and water, just as it had been ator, she agreed that such was proleft from the morning's operations,
left from the morning's operations,
has the heat of the sun had been leating on the wood shed throughout the
day, the condition of the separator
can be better imagined than described. It would be impossible to get
placed on the market. The skimming
that separator in a sweet condition to
device was very hard to clean, the that separator in a sweet condition to receive the evening's milking. Mr Stonehouse pointed out to the woman of the house how the cream and the separator should be cared for and suggested means of improvement. suggested means of improvement. The cream was kept in the cellar but seldom cooled

WASTED CREAM

Patron No. 4.—When it was learned who the visitors were and what they were after, Mrs. — began to color. She stated that she had neglected to scrub the milkstand that morning —the first time this season. I told Mary this morning," she said, "that Mary this morning," she said, "that the stand unscrubbed." I see a stand unscrubbed." I see a stand unscrubbed with the stand that the the party drove in. It was in first-class order. On the way out it was laughable to notice that in the mean-time a clean cloth had been thrown over the separator. Everything in connection with the handling of the cream was above reproach. It was cream was above reproach. It was thoroughly cooled with water as soon as separated and stored in the cellar.

Patron No. 5.—This patron was visited shortly after the milking had been completed. The separator was visited shortly after the milking had been completed. The separator was kept in a cellar kitchen, an ideal location. It was an old machine and sadiy out of repair. It was evident that much cream was going to waste in the skim milk. This was pointed over to this patron and he was advent to the patron with the skim milk. The remainder of the skim milk. milk. The cream was cooled as soon as separated and stored in cellar. This patron kept the cream from Friday night and Saturday morning for making butter for household use. This was a first-class idea, especially where the hauler called but three times a week. There was no difficulty in leaving the creamy of the company of the creamy of in keeping the cream sweet over a three days' period. This patron was thoroughly convinced of the great need of scrupulous cleanliness in handling dairy products, utensils and separators, and apparently lived up to all he believed.

A WELL-KEPT PLACE

Patron No. 6.—Everything was in tip-top shape. The separator was housed in a woodshed, the floor of which fairly shone it was so clean. The cream was cooled in water after which it was stored in a creamery can in the cellar. Mr. Stonehouse remarked that it was a pity there were not more places like this one.

places like this one.

Patron No. 7.—The separator was kept upstairs in the barn. Owing to short help in the house it was washed but once a day, which was quite evident on but casual observation. The cream, however, was well looked after, being taken care of in the prescribed way. The woman of the house was not too enthusiastic about dairying. She said: "I can make more out of my hens. It would pay better to keep the cream at home and sell the butter on the market." She was the only one that voiced that sentiment, the on the market." She was the only one that voiced that sentiment, the others being fully convinced of the other being fully convinced of the other being fully convinced of the other being fully convinced that it is a large remaining that they got just as large remaining that they were minus the hard work the other fully convinced to the other fully convinced to the other full convinced that it was impossible to do so. She admitted that the cream had frequently sourced, and when Mr. Stone-house suggested that this was due to the infrequent washing of the separation the infrequent washing of the separ-

Patron No. 8.—The. separator in use to to be made to keep the separator and the dairy utensils in good condition."

A FILTHY HABIT date was a series of the house cleaned them by inserting the blade of a knile, between each, and as there were 196 compartments the work she had every time as a the bard of a knile, between each, and as there were 196 compartments the work she had every time as a the bard of a knile, between each, and as there were 196 compartments the work she had every time to take the separator as a stry. The separator was at the barn on the separator as the bard of a knile, between the separator as the ment of the work she had every time to say the said, "but do not use scalding water, because the separator agent told me not to. He claimed that scalding water would burst the discs, and that its use was not necessary." "That man," replied Mr. Stonehouse, the disc, and that its use was not necessary." "That man," replied Mr. Stonehouse, "was decidedly wrong. A man should not sell a machine when to do so he has 10 go a zound the country preaching to go a dought the separator was the separator and the washed and were out in the should be the separator washed, and said that it was a great machine when to do so he has 10 go a zound the country preaching washed after use." At this place the cream washed after use." At this place the cream was not being properly the country of the country of the country of the country of the cream washed after use." At this place the cream washed after use. "At this place the cream washed after use." At this place the cream washed after use." At this place the cream washed after use." At this place the cream washed after use. "At this place the cream washed after use." At this place the cream washed after use." At this place the cream washed after use." At th

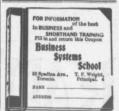
and not let them sell such separators as this." On this farm the cream tested 29 per cent. Every effort seemed to be made to keep the separator

admitted that she had been having trouble with her cream souring, and was advised to cool it quickly by setting it in cold water.

(To be continued next week)

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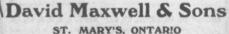
You can churn with your hand, with your foot, or with both, with the "FAVOR-ITE." It is the easiest running churn you ever used. Roller bearings make it so.

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Storing Green Tomatoes

Just as soon as the average date of the first killing frost approaches in the latitude in which you live, gather all the green tomatoes, big and fairest and largest in one lot, and the smaller and inferior ones in another. Put a large crumpled newspaper in the bottom of a clean wooden cracker box is best, because it has no resinous odors, such as a pine box gives out, that may be imparted to the fruit,) place a layer of the large to gruit, place a layer of the large hot too warm place, as heat, or course, tomatoes upon the paper. leaving will ripen them too rapidly. space of say an inch between; then lut or another layer crumpled news-even temperature, somewhat above paper, pressing it down carefully into freezing, the time of their ripening

the interstices and around the edges, so the tomatoes may be kept from contact and from the air, and so on, layer upon layer, with crumpled news-papers between, until the box is full; tack a cover on, so that neither mice nor chickens may attack them, and set nor chickens may attack them, and set the boxes in your barn or some dry, cool place, such as a fruit or root cellar. If placed in a barn they should be shielded from severe cold with hay or straw, until the weather gets too cold for their safety, then they must be stored in a frost-proof but not too warm place, as heat, of course, until them them con and the

may be delayed until or beyond New Year's. This may be called putting Year's. This may be called putting them in "cool" storage; but if put into cold storage, with ice, and an exact, even, cool temperature maintained, their time of ripening can be longthered out already and the contraction.

lengthened out almost until spring.

It will, of course, be found necessary to examine them from time to time, to remove ripe or decaying fruit. I have put them up some years, wrapped each one separately in pieces of paper, but this makes the examination moré difficult, as each tomato has to be unwrapped to ascertain its condition.

THE SMALLER ONES

The balance of the crop of green fruit, the smaller and rougher speci-mens, make excellent mincemeat for pies, if treated as follows: Remove stems and leaves, and wash the fruit in cold water, chop them in a wood-en chopping bowl, as fine as ordin-ary mincemeat, pouring off all the green juice. They should then be cooked slowly until tender, in a porcecooked slowly until tender, in a porce-lain-lined kettle or earthen jar or crock, and to a peck of the green to-matoes should be added a teacup each of English currants and stoned rais-ins, and of sugar or molasses, spices, a little salt and grated lemon or orange peel to suit the taste. Bottle the product hot in self-sealing jars, just as other fruits are preserved. This will be found to make excellent pies no other ingredients, such as ap ples or meat, being required or desir-We think no one not let into the secret would ever guess them to be made almost entirely of green toma-

SELLING THE RIPE ONES

The larger ripened fruit should bring a good price in mar-ket, in midwinter. They should be wrapped separately, or two together, not touching each other, neatly, in square pieces of clean un-printed newspaper, and packed in one third bushel crates, or, better still, in four-pound straight sided splint basfour-pound straight sided spint bas-kets without handles. If baskets are used, put the fruit in on edge. The contrast in color of the brilliant red of the fruit with the white paper, when this is partially removed, will found very pleasing and attractive.

THE COOK'S CORNER

publication in this country. Inquir pertaining to cooking are solicited, a will be replied to, as soon as possi-after receipt of same. Our Cook B sent free for two new yearly subscr tions at \$1.00 cach. Address, Househ Editor, this paper. ****************

TOMATO SOUP

One qt tomatoes, qt water, 1 qt milk. Butter, salt and pepper to taste. Cook the tomatoes thoroughly in the water. When they are done add a large teaspoon of soda; thicken with a tablespoon of cornstarch; add the hot milk and seasoning.

CREAM COOKIES

One cup sugar, 1 cup sour cream, 1 egg, 1 teaspoon soda, nutmeg, flour to roll.

SOFT SUGAR COOKIES

One and a half cups sugar, 1 cup butter, 2 eggs, 1/2 cup sour cream, 1 teaspoon soda; mix so that you can roll out; bake quick.

HERMITS

One cup molasses, I cup sugar, I cup shortening, I cup sour milk, I cup chopped fruit, I egg, spice to taste, 2 teaspoons of soda. Flour to

GREEN CORN SOUP

Six ears green corn, I pt milk, I tablespoon butter, I tablespoon flour, I teaspoon sugar; pepper and salt to

taste. With a sharp knife scrape the thinnest possible shaving from each row of kernels, then with back of the knife scrape out the pulp. The hulls by this method will remain on the by this method will remain on the cob, break the cobs and put them on to boil in enough cold water to cover them. Boil 30 minutes and strain. After straining put the corn water on to boil again, and add the corn pulp; cook 15 minutes; add the salt, sugar, pepper and boiling milk. Cook together the flour and butter, stir into the soup; boil 5 minutes, and serve: —Mary A. Mills, Que.



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Simple blouses are among the most fashionable just now there being a very greated as the desired as the state of the sta

Material required for medium size is 3½ yds 21. 3½ yds 27, or 2 yds 44 inches wide with 2½ yds of ruffling. pattern is cut in sizes for a 32, 34, and 40 inch bust, and will be mail-receipt of 10 cents.

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

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The princess Empire dress is the late development of that altogether attractive fashion. The waist consists of the front and the backs and is gathered at the upper edge where it is finished with a trimming band and also is arranged in tuck shirrings at the lower edge.

shirrings at the low-er edge.
Material required for the 16 year size is 7% yds 27, 7% yds 32 or 4% yds 44 in wide with 5% yds banding.
The nattern is cut

The pattern is cut in sizes for girls of 14 and 16 years and will be mailed on receipt of 10 cents.

SEVEN GORED TUCKED SKIRT 5635



Tucks make really ideal trimming for the light weight goods, and here is a skirt that shows wide ones above the hem, with tiny vertical ones at the seams. The skirt is made in soven gores and there are two tucks of greduated length lail at each soam.

Material required for the medium size is 11½ rds 2 or 27, or 5 12 yds 44 inches wide. The pattern is cut in sizes for a 22, 24, 25, 28, and 30 inch waist, and will be mailed on receipt of 10 cents.

Have a small horse shoe magnet fastened to the end of a tape or rib-bon of sufficient length so that it can be dropped on the floor to pick up scissors and needles.

The under crust of my cherry and berry pies are always soaked with juice. Would you tell me some simple way of correct-ing this?—Jessie Burns, Welland Co., Ont.

This is a very usual defect with this kind of pie. It is wiser to make them in a deep dish and omit the low-er crust of paste—in the same manner as deep apple pie. Use a funnel al-ways with these kind of pies.

The egg frosting on the top of my pies sometimes refuses to be cut, and sticks to the knife. Why is this? Is it because my oven is too slow?—Bertha Reid, Hastings Co., Ont.

There is a chance that the eggs were not beaten long enough. If the knife used to cut the pie is dipped in hot water it will prevent the frosting sticking to it.

. .

Custards and jellies made with gel-atine absorb much that is not health-Keep them covered while in the refrigerator



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NORTHWEST OF TORONTO AUG. 14, 18 SEPT. 1, 8
From stations on Toronto-No Bay line, west to but not includi Toronto-Samia line.

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SOUTHWEST OF TORONTO | EAST OF TURONTO AUG. 20, 22, 27 SEPT. 2, 11, 14 From stations East of Toronto-North Bay line, to and including Sharbot Lake and Kingston.

to women, but not at half-fare for children,

HOMESEEKERS' SPECIAL TRAINS FROM ALL C. P. R. STATIONS ON AUGUST 14, 18 and 20. Apply to nearest C.P.R. ticket agent for leaflet giving conditions, train times, etc., or write Excursions afford best a modation, with Tourist Sk Leave: SEPT. 1, 15, 29. Ask agent about thes

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HOLSTEIN FRIESIAN NEWS

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

DOCTORS FAVOR HOLSTEINS

DOCTORS FAVOR HOLSTEINS

Mr. P. Clark of the Silver Spring Dalry
Farm, an Deachene, Quebee, who has a
very select milk and cream trade in the
has been considered to the control of the
property of the control of the control of the
Jersey head with Holstein cattle. He does
not intend to go out of Jerseys altogether, at present, at least, but he in sntallparty and and Farming World, who saw
him in Ottswa resently. Mr. Clark, eald
that of late there has been a growing demand on the part of many physicians in
light of the control of the control
icians claim that in sume a control
icians claim that in sume as of the
head of the control of the control
icians claim milk answers their purpose
better. Another reason given by Mr.
Clark for the change is the fact that although many of the Jersey cattle that he
sums of money, he found it difficult, in
fact almost impossible, to sell bull calves
to the farmirs in his section. These fariners, however, are willing to buy Holstein
stock and he believes that he will be able
advantage.

THE RECORD OF PERFORMANCE EN-

THE RECORD OF PERFORMANCE ENDORSED.

Mr. R. F. Holds B.

Mr. Holds D.

M

"At first I was opposed to the test," said Mr. Hicks to our representative who visited his place recently, "but I now believe it is being manned on a better basis than the property of the pr objections to see tests at first were assess to be considered to the consideration of the con

ment of Agriculture are endeavoring to visit every herd entered in the test eight times during the year, the result of their inspection is likely to be more valuable than when they used to visit the herds only three or four times during the year drop in on a breeder unexpectedly. I have had them come in on me just before I was starting milking. Even had I wanted to I could not have done anything that would have added a pound or the world of the starting milking. Even had I wanted to I could not have done anything that would have added a pound or the starting milking. Even that I wanted to I could not have done anything that would have added a pound or that the world have a starting milking. Even that I wanted to even starting the starting that would have added a pound or the cows entered in the tests when they weighted in the test when they weighted less than the records of the cows as kept by the owner, they would soon get suspicious of him, and he would soon get suspicious of him and he would soon get suspicious of him, and he would soon get suspicious of him, and he would have added a pound or the suspicious of him and he would have been and he would have been suspicious of him and he would have been a

NOW KEEPS PURE BREDS Mr. Hicks described the case of one far-ner in his section, whose name he men-

tioned, who within the past year has been doing some hard thinking on the subject of relative profits between good and poor of relative profits between good and poor milking cows. This man," said Mr. Hicks of the cows and was surprised to find that it weight milking cows. This man," said Mr. Hicks of the cows and was surprised to find that it weight milking cows. This man," said Mr. Hicks of the cows that the milk given him figuring, and the experience started him figuring, and the capterinee started him figuring, and the compared the milk given him by the other of the cows of the country of the constraint of the country of the of milk, much larger than any of the found that the greater quantity of milk other cows. He weighed this cow's milk, given by dairy cows as compared with



HEAD OFFICE: TORONTO

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Avenue Read King and Harriston Hepworth Ingersoll Kincardine Spadina Queen and Broadview Kenora Lakefield Yonge and Bloor Sts. Leamington Lion's Head Tottenham Massey Mount Forest Windsor Winona " Woodstock North Bay Norwich Waterdown

Orillia

NKING FOR FARMERS

MOST of the Branches of the Traders Bank of Canada are located in small towns throughout Ontario, so as to be convenient to the farmers. We want your business and we offer every accommodation that a progressive bank can give a progressive farmer.

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We want your account. The staff of our nearest Branch will treat you most courteously and give the closest attention to your interests.

INCORPORATED 1885.

Webbwood

************************** COUNTRY NOTES AND PRICES \$

ST. JOHN'S CO., N. B.

BAY VIEW.-The heavy rains of the past BAY VIEW.—The heavy rains of the past few weeks have made the pastures very good. Hay was not a very good yield ow-ing to the six weeks' drought. Oats have the promise of a very good yield. Pota-toes are an extra good crop as are also beans. Peas were fairly good. The root crops are very good. Eggs are selling at 22c; butter, 25c.—W. M.

TEMISCOUATE CO., QUE.

TEMISCOUATE CO., QUE.
FRASEBULLE.—Hay is a medium crop, but under the average on low grounds. A lot will have to be imported. Prices range from 810 to 812 a ton. Oats promise well. Wheat presents a good appearance. Barrons are supported to the support of the su ed. Fresh eggs sell from 20c to 22c a dox. Blutter shows a decline from 24c and 25c a b to 50c and 25c. Pork 9c to 10c a lb, live weight, and retails at 14c and 15c; beef, 3c to 16c live, and retailing at 5c to 15c. Mutton shows a decline, retailing at 15c to 15c. Mutton shows a decline, retailing at 15c to 15e a lb, and 83 to 83.50 a cwt, live—8. C. R.

DUNDAS CO., ONT.

WINDHESTER, P nestures are very hare owing to the continued dry weather. There is a very heavy shrinkage in the quantity of milk in consequence. Hay was a very light crop but was saved in good condition. Grain was an average crop of cond multiv excenting late oats which a vely mind crop but was saved in good good quality, exepting harvage crop of good quality, exepting harvage and good quality, exepting harvage were preity badly rusted. Harvest is practically over. The straw was awed in exceptionally fine condition. Corn is a fine crop and is earing up well it needs rain crop and is earing up well it needs rain to a complete the companies of t

NORTHUMBERLAND CO., ONT.

NORTHUMERILAND CO., ONT.

CORAL-Hay crop was good and well saved. Fall wheat was about an average crop. Rye will be an average crop. There is earcely any spring wheat sown and indeed. Barley is a very poor crop. Oats will be a light yield. Roots crops are looking fine since the rain. Corn will be a fine crop. There are plenty of early aples of the control of the control of the crop. There are plenty of early appeared to the control of th

PETERBORO CO., ONT.

PETERBORG CO., ONT.

LASSWADE.—Harvesting is nearly all completed, and some have already threshed. Grain is said to turn out well. Some are already cutting beaver hay, and the weather has been excellent for this purchased to the said to turn out the said to the said to the said to the said to the said that the said the sai

VICTORIA CO., ONT.

IRONDALE—The harrest in some cases is completed. There are some, however, who have not finished. There has been no threshing done. Wheat is good outs are a heavy erec; barloy is good in most places; potatoes are not what people expected, very few in the hills and they are small—J. P. few in the hills and they are

mall—J. P. II.

HALIBUTON CO., ONT.

HALIBUTON Last week's rain did
some data library and the some data so

shos have been quilt this summer. No less than six barns have been struck and burned down by lightning but through the kindness and generosity of neighbors they have been enabled to rebuild within three or four weeks.—C. H. S.

they have been easiest to round withthe the second of the second with the second of the second of

stee.—w. B. SIMCOE CO., ONT.
STAYNER.—Owing to favorable weather and spring, the clover and fall wheat are rood. Hay was heavier than last year. Sain was plentful enough to make the straw a good length. Barley and oats are very good, but peas are light. Root crops are looking well.—D. M.

ire looking well—D. M.

HOMEL LINCOLN CO., ONT.

HOMEL SANCE and representation of the property of the district of the property of the propert

rust.—W. S.

CAYUGA—Harvesting is over and threshing is given and in what is a
good crop, first weing. Fail wheat is a
good crop, first weing. Fail wheat is a
good crop, first weing. Fail wheat is a
good crop, first weing real way for a
good crop, first weing real way for a
good crop, first weing real way for a
good crop, first weing real way
for spell in June and July spring grain
suffered considerably. Oats are short in
the straw and are yielding poorly. Peas
are nearly a total failure; the aphis did
are nearly a failure of the straw of the second coro,
and was gathered in good condition.
Clover is a pretty good catch. Alfalfa,
of which an increasing acreage is being
away and the second coro, and the second coro,
and was gathered in good condition.
Clover is a pretty good catch. Alfalfa,
of which an increasing acreage is being
away and the second coro, and the second coro,
and was gathered in good condition.
Clover is a pretty good catch. Alfalfa,
of which an increasing acreage is being
away and the second coro, and was gathered in good condition.
Coro of the second coro, and the second coro, and was
are not coro, and the second coro, and the HALDIMAND CO., ONT.

75c to 80c. About the usual amount of fall wheat will be sown.—W. T.

sheat will be sown—W. T.

SPORD CO., ONT.

EMBRO.—Harvest is now finished. after some cate being in stook for nearly three weeks. The straw is badly spolled but shew well set up not much grain has shew well set up not much grain has there well set up not much grain has those well set up not much grain when the straw, but are welling out very well to the straw, but are welling out very well to the straw, but are welling to being prepared for fall wheat, mostly sod plowed in July or August or land manured last winter of a digital straw of the stra

less labor than a year ago.—D. M. R.
ERNY CO, ONL.
CHATHAM.—On the older orchards, early, medium and fall apples are a good crop. The younger orchards have searcely any apples except Hen Davis and Greening. Along the river the older orchards have a light crop of Baldwins, Canada, Reds, Rell. Eight crop of Baldwins, Canada, Reds, Rell. Fameuse and Greenings. All fruit is quite free from seab but there is a lot of cod-ling moth.—M. B.

frost on the night of the 2drd did a good deal of damage is some localities, extended of the control of the con



steals a night's lodging in your straw stack may prove a very costly visitor if he should forget to put out the match after lighting his pipe. If fire in straw stack gets a good start the barn and contents are doomed-unless protected with Galt Steel Siding and Galt "Sure-grip" Steel Shingles. Then it will be fire-proof as well as storm and lightning proof. Your cattle and produce confined in the barn will be absolutely safe and secure.

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IRON PRODUCING LANDS CO.,

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Minneapolis, Minn

eral wholesale trade continues quiet. The large jobbers are exercising caution in extending credit to country merchants and seem disposed to curtail their credits in proportion as their own had been lessened by the banks. There is a good demand for money for commercial purposes. Money on call is a little more plentiful, some private funds being reported as being placed as the proposed of the pro

WHEAT
The wheat situation shows little material change from a week ago. The Northwest Grain Dealers' Association, representatives of which recently made an excitoff of the state of the state of the state of 167,154,000 bush west of the lakes. They place the average yield at 17½ bush per acre. They estimate 15,000 bush of old wheat in farmers' hands. Cutting is well advanced, and the samples of new wheat advanced, and the samples of new wheat the state of the situation is the state of the state of the state of the situation is the state of the situation is the state of the situation is set of the state of the situation is set of the state of the situation is set of the situation is set of the state of the situation is set of the state of the situation is set of the state of the situation is set of the set

only new feature in the situation is the only how reature in the situation is e talk of a big deal being manipulated Chicago in September wheat. It is said at on every decline in the market Ar-our and the elevator clique are buying mour and the elevator clique are buying all the September wheat they can get a hold of. It is doubtful if such a deal will be successful in view of the increased sup-plies of spring and fall wheat that will soop be available. It is now pretty cer-tain, however, that Europe will need all the surplus wheat that Ganada and the United States can spare. The visible sup-ply in these countries is now 34,778,000 bank less than at this time last year, and shows a further decrease during the past ten days, which is taken to be an indication

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FARMS FOR SALE

FOR SALE.—488 ACRES, all cultivated, clay land, main road, school, churches, blacksmith shop, and post office within two miles, 120 acres summerfallowed, good frame buildings, Brantford wind-mill and crusher, erected last January; good water. For quick saie, 520; haft cash; belance bat crop payments. David Morgan, Oxlow, Sask. E346.

note, August 18st, 1968. There apnote, August 18st, 1968. There apnote, August 18st, 1968. There apnote and a state as was expected some weeks
in shipping out fall goods, yet genwholesale trade continues quiet. The
jobbers are exercising caution in exing credit to country merchants and
disposed to curtail their credits in interpretable and any according to the continues of the continu

COARSE GRAINS

COARSE GRAINS
There is an easier feeling in oats owing to larger offerings, though prices are no lower. New costs are quoted at Ontario Comment of the Comme quiet at 65c to 67c for malting barley.

FEEDS

The bran market continues strong under short supplies with prices unchanged from last week's quotations. From this on the mills will be doing more grinding and receipts will increase. Shorts and middings are quoted \$1 a ton higher at Montreal, where the former sells at \$55 and the latter at \$7 a ton in car lots. mixed corn in quoted at Montreal at \$66 to \$60 and here at \$77/6 to \$86 Toronto freights. freights.

SEEDS

It is early yet to speak definitely as to the outlook for seed prices. Dealers here are not very optimistic regarding the out-look. The American seed crop gives pro-mise of being large. Only alsike and tim-othly are quotable yet. At outside points alsike is quoted at 8,50 to 8 a bush, the latter figure for extra fancy lots, and timothy at 8,50 to 82.5 a bush, accord-timothy at 8,50 to 82.5 a bush, according to quality.

HAY AND STRAW

HAY AND STRAW

The hay situation show ittle change. Some shipments of Canadian hay made six months ago are reported to be still held in the British markets and will not a loss of \$19 a ton. Gurrent cabbes report as loss of \$19 a ton. Gurrent cabbes report to the control of th

POTATOES AND BEANS

Deliveries of potatoes are increasing here, and the quality is fairly good. Prices rule steady, ranging from 60c to 80c a bush the latter figure for the best quality

bush the latter figure for the best quality in farmers' wagons, by the load. Bean quotations show no change. Re-ceipts are light. At Montreal Ontario beans are quoted at \$1.55 to \$2.5 a bush, and here at \$2 to \$2.10 for primes, and \$2.10 to \$2.20 for hand picked.

EGGS AND POULTRY

Egg prices rule about the same. Re-ceipts are larger. Dealers paid 17½ last week at country points both east and west of Toronto. At Montreal the demand

MARKET REVIEW AND FORECAST

Toronto, August lise, 1960. – There apthat farmers are not marketing their
more activity in some wheat an fant as was expected stone weeks
lines in shipping out fall goods, yet genland to the stone of the st

FRUIT

There is considerable business doing in early apples. Buyers are not so eager as last year to contract for winter fruit. In on the trees for unsprayed orchards. This means of course that they will only take the pick at that price, and in many unsprayed orchards that price, and in many unsprayed orchards not much more than 30 per cent, good fruit can be packed. In sprayed orchards the percentage of good Pruit will often run an high as 80 or 80 per cent, good truit can he packed and apply all adds of readily enough: Blackberlies at 8c to 16a a box; blueberries at 8c to 16a a basies.

be to \$1, and tomatons, its to 26c; grayes above to \$2. There has been a quieter market in cheese during the week with cheese of country boards selling at ½ to % of a cent a 1b lower than the week previous. 15c to 25c t

FOR SALE—489 ACRES, all cultivated, eleipts are larger. Dealers paid 17% last ids, 25c to 26c; choice dairy prints, 25c to 26c; choice and 26c; choice dairy prints, 25c to 26c; choice dairy prints, 25c to 26c; choice dairy prints, 25c to 26c; choice dairy prints,

cables of August 27th quote cattle steady at 13½6 to 12½6 a lb. dressed weight. Choice exporters sold here during the week at 8,56 and would bring that price to-day were the quality offering. On Thursday a few light exporters, 25med, son 44,75 to 8,5, and bulls at 8,3,5 to 8,435

at \$4.75 to \$5, and bulls at \$4.75 to \$4.25 a over.

will child included butchers' cattle will be a cut, but there were none of this class offering on Thursday, the last market of the week. Good cattle of which there were not many on said, so \$4.50; medium, \$4 to \$4.50; common, for each of the common of the common of the cut, and common of the cut, and canners at \$1.50 to \$2.20 a own. There is nothing much doing in feeders and stockers. Several lots of feeders, 600 to \$90 the each, sold at \$4.50 to \$8.25, and

ckers at \$2.50 to \$3.25 a cwt, on day.

Receipts of yeal calves have rule during the week and prices are firm. Few good quality calves came on sale. Prices averaged from \$5.50 to \$6.50 a cwt. At Buffalo prices are higher at \$6 to \$9.50

a owt. a cwt.

a cwt.

Beautiful of sheep and lambe during the

Rocharb bee large. On Wednesday and

Thurday there were 2500 sheep and lambe

at the city market. Though the market

was slow sheep held their own in price,
but lambs were lower. Export ewes sold

at 84 to 8425; bucks at \$3 to 83.55, and

lambs at \$5 to 85.75 ac vt. At Buffalo

at 84.55 to 54.55; bucks at \$4 to 84.55, and

lambs at \$5 to 85.75 ac vt. At Buffalo

at 84.55 to 54.60; yearlings, \$4.75 to \$5.55;

wachner, 84.50 to 84.87; ewes, \$4 to 84.55;

and mixed sheep, 83.50 to 84.50 ac vet.

There were 1697 hogs on the city market

ou Thursday. Prices remained unchanged

at \$6.55 for selects and \$6.55 for lights,

tions during the week have been more in

keeping with quotations here than for

several weeks there is a feeling that prices

on Toronto market are no criterion of

Toronto market are no criterion of Receipts of sheep and lambs during the



mers a month longer. It is between seasons just now and the quality is not expected to improve for another month. The Trade Bulletin's London cable of August 27th reads as follows: "The market is firmer after the decline of last candidate hearon, 56 to 66s."

PETERBORO HOG MARKET

PETERBORO MG MARKET
Peterboro, Ont. August 25, 1968. — The
deliveries during the past week have been
rather light and as a result there is a
steadier feeling in the market. The deliveries of Danish hogs on the English mareries of Danish hogs on the English mareries of Danish hogs on the English markilled in Ontario and Quebe combined.
The George Matthews Co. quote the same
prices as last week, namely f.o.b. country
points, \$8.25 a cwt; delivered at abattoir,
\$8.25, cwt; delivered at abattoir,

MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal. Saturday, August 29—The market for live hogs is quiet with an easy tendency, and prices this week have ruled at about \$6.75 for selected lots weighed off cars. Receipts are fairly heavy, but dealers had no difficulty in disposing of them at the above quotations.

es at \$4 to \$5.25. Bucks sold for \$3 to \$3.50; \$5.25 to \$5.75 a cwt was paid for lambs.—J. W. W.

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND OHEESE
Montreal, Saturday, August 29—The demand for cheese this week has been very
dull, so much so that operations in the
country at the various cheese boards have
the salemen have been obliged to go
home without disposing of their cheese.
The few sales that have been obliged to go
home without disposing of their cheese.
The few sales that have been made in the
12%c a lb, the great bulk or the cheese
has been held over for a week and will not
be sold until next week. This delay in
shipping in from the factories will give
and will prove a real benefit so the trade,
and will prove a real benefit so the trade,
and will prove a real benefit so the trade,
as the receipte during the past week or and will prove a real benefit to the trade, as the receipts during the past week or two have come in decidedly green. Factorymen are shipping too close up to the contract of the contract of

There is a good demand for dreased hatter is a good demand for dreased battoit stook, \$10 a cet for fresh killed UNION STOCK YARDS PRICES

West Toronto, Ont. August 31.—The run of cattle at the Union Stock Yards, West Toronto this morning was \$10 cars. There were 150 cattle, \$27 sheep, \$0 hogs, and \$50 calves. Quality of cattle was not as good related that some of the larger houses are beginnered for the control of the prices and the second of the cattle was not as good prices, and trade was slow. Aside from this prices were about the same as a week ago; \$5.00 was paid for one loud of exporters bought in the country some time ago at \$6.00. Butchers were a little alow, well the large of the advance in price from this prices were about the same as a week ago; \$5.00 was paid for one loud of exporters bought in the country some time ago at \$6.00. Butchers were a little alow, well to the prices and the second point of the second point of

Cheese Board Prices

BOARD	Date	WH	ITE CHE	ESE	COLORED CHEESE		
	of Meet'g	Boarded	Lowest Price	Highest Price	Boarded	Lowest Price	Highest Price
Lindsay Campbellford, Madoc, Woodstock Belleville Brockville, Kingston, Russell Vankleek Hill, Winchester Alexandria Iroquois, Kemptville	Dampbellford. 25 900	595 1,500 2,660 1,055 732 250 1,422 526	12½ 12½ 12 1-16 12½ bid 11½ bid 11½ bid 12½ bid 12½ bid 10 bids	12 3-16 12 5-16 12 1-16 12 1-18 no sales	1,045 2,422 306 1,082 299 68 68	12 12 1-16 12½ bid 11½ bid 12½ bid	12 1-16 12g
Napanee Ottawa Perth Picton Cornwall		12 bid few at 12 12 bid no bids	no sales	420	no sales		
Victoriaville Huntingdon Cowansville St. Hyacinthe	Aug. 28 29 29 29	1,500 263 313 1,200		12	225		iiĝ
NEW YORK Canton Watertown	Aug. 29	2,400 7,300	ii	· 112 112			

Shires, Shorthorns and Lincolns



[738We are offering a choice lot of Imported Stal-lions, Mares and Fillies, received from the great Shire Stud of R. Moore & Sons, Beeston Fields, Nottingham, England.

In Shorthorns we have a number of Choice Young Bulls and Heifers, sired by the great Show and Stock Bulls Imp. Scottish Prince and Imp. Prince of Archers.

The Lincolns are a grand lot. Can supply any number of either Rams or Ewes.

Write for prices, or better still,

COME AND SEE US-all are well

JOHN GARDHOUSE & SONS, Highfield, Ont.

Toronto 14 miles

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AYRSHIRES

SPRINCHILL AYRSHIRES Imported and home bred stock of all ages for sale. See our stock at the leading shows this fall. Write for prices. ROBT. HUNTER & SONS

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Maxville, Ont. E 6-23-09

Ayrshires on Ste. Marguerite Farm Ayranires on Ste. Marguerite Farm have been selected from the best milking strains in Scotland, are large showy animals, with great milking ability. A number of young bulls for sale ranging from 2 years to several months. Also Tamworth pigs and Shropshire Sheep. Write for prices.

B-12-9-00 Three Rivers, Que.

HUME FARM AYRSHIRES

Our 1996 importation has landed, con-sisting in females of 3 year olds, 2 year olds, yearlings and caives, in bulls, year-lings, said caives, dans record up to 1,169 ealves from our own Record of Merit cows and others. Females, any desired age, either timp, or home-bred. Ooms and see our hard. Phone in residence. Hoards Station, G.T. Bhome in residence. Hoards Station, G.T. Bhome in residence.

ALEX. HUME & CO.,

NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottaws and Halifax. Long distance phone W. W. BALLANTYNE, Stratford, Ont

SPRINGBROOK AYRSHIRES SPRINGSRUUK ATTACHMENT ARE DESCRIPTION OF THE STATE OF TH

STONEYCROFT STOCK FARM Harold M. Morgan, prop., 8ts. Anne de Bellevus. Cholee young Ayrshire Bulls and Heffers for sale. Yorkshire pigs from Imported Sires and Dams. February and March litters. Largest selection. High-est quality. Write for prices.

E 5-26-09 E. W. BJORKELAND, Manager. HIGH-CLASS AVESHIRE BULL FOR SALE

SENATOR OWENS, of Montebello, offers for sale his Stock Bull "Not Likely of St. Anne's 1874, both sire and dam imported. Can be seen at the Central Exhibition, Ottawa, with a string of his stock, which proves him to be a grand Dairy Bull.

HOLSTEINS

We must sell at least 25 cows and helf ers at once, to make room for the natural increase of our herd. This is a chance increase of our herd. This is a chance also have a few young buils. Pontiae Hermes, Imp, son of Henderyeld Dekl, world's greatest sire, head of herd. Come and see them.

H. E. GEORGE
CRAMPTON, ONT.
Putnam Stn., 1½ miles—C.P.R. E409

SPRINGBROOK HOLSTEINS AND

Thirty-two choice young Tamworths, from imported sows and sired by imp. Knowel King David, bred from best British blood, and royal winners. A few rich blood, and royal winners a few rich confer. Bargains to cuick buyers.

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HOLETEINS

I have only three sons of Brightest Canary to offer for sale. Speak quick if you want one.

GORDON H. MANHARD Manhard, P. O., Ont.

SUNNADALE HOLSTEINS

BUNNADALE HOLSTEINS
For sale, three bulls, from 4 to 6 months
old, sired by a son of Pictertys Hengeold sired by a son of Pictertys Hengeficial record daughters and so were 30 de
bull that has two daughters that have
made over 20 lbs of butter in seven days;
Mol. His dam has a butter record of 20%,
in seven days. We have four or five
good cows for sale. Prices reasonable.

200 description of the complete of E-4-28-09

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ORMSTOWN, QUB. Breeders of Holstein-Fresian cattle high-class merit. Young stock of both sexes for sale. Write for prices

FOR SALE,—One Holstein Bull, eighteen months old, of DeKol and Mercedes breeding. Samuel Lemon, Lynden, Ont. 04-09

MISCELLANEOUS

LEICESTER SHEEP, CHESTER WHITE SWINE Toulouse Geese, Pekin Ducks, Brons Turkeys, Wyandottes, S. C. Dorkings, In dian, Golden, or Black Red Game Fowls Write for what you want, to

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THE SUNNY SIDE HEREFORDS ..FOR SALE—A choice herd of 19 heifers and 5 bulls, from 10 to 24 months old, at bargain prices; also a few cows with ealf by side, and bred again, can be spared. E-923

M. H. O'NEIL Lucan Stn. Southgate P.O.

OXFORD DOWN SHEEP and Berkshire Swine for sale. Write your wants. John Ellenton & Son, Hornby P. O., Ont., Mil-ton station.

THE HOMESTEAD HERD OF ABERDERN ANGUS CATTLE... Present offerings: 8 months old bull, sire a Toronto cham-pion, also cows and helifers of the choice est breeding. Must be sold to make room, at prices that will surprise you. WM. ISCHE, Proprietor Sebringville, Ont.

Salem Herd of Shorthorns is headed by the champion Gilt Victor

J. A. WATT 09-15 ELORA STA., G.T.R. & C.P.R. SALEM P.O

RIVERVIEW STOCK FARM Kimbo, Ont.

DORSET SHEEP

OF THE CHOICEST QUALITY AND BREEDING

FOR SALE at reasonable prices, also SHORTHORNS



Dorset Sheep

I have bred more Championship Winners in the last 20 years than any other Dorset Breeder in Canada.

See my Exhibit at Toronto Write for prices, etc., to

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GOSSIP

RIVERVIEW STOCK FARM.

Riveries Stock Farm, the property of Mr. H. Bartlett, of Kimbo, Inc.

Mr. H. Bartlett, of Kimbo, Bartlett, and Mr. Bartlett, of Kimbo, Mr. Bartlett, and even lambo, omposed of yearing swas and even lambo, composed of yearing swas and even lambo, years ago and he has proved himself available sire as can be seen by anyone who visits the sheep pen at Toronto fair, and inspects Mr. Bartlett's exhibit, he beught worth the money. Riverview lies between Smithville and Grassus, on the T. H. and B. Ry. and is a few miles from Grimsby, G. T. B.

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Anyone interested in good Shire Horses or Shorthorn Cattle, should see the exhibit of John Gardhouse & Sons, Highfield, Ont., at the Canadian National Exhibi-

tion, Toronto. This firm has been long and favorably known as importers and breeders of high class stock. Among the breeders of high class stock, among the long the long that long that long the long that long the long that long the long that long that long the long that long the long that long that long the long that long that long the long that long the

HOW TO GET WORK DONE.

HOW TO GET WORK DONE.

In these days there is no more serious problem facing the farmer than the everpresent question, "How whall I get my work done without the help necessary." The great claims of our Northwest, the continual attraction of the cities, the high gradually drawn away our farm help. And worst of all, the resultant heavy work on the farmer and use farmer's family has too often made the boys dissentisfied with the farm and driven them in the control of th

appreciating the great field for labor saving machinery, and are continually bringing out new developments along this line, the same of th

There is no part of the farm building which is attracting so much attention as There is no part of the farm building which is attracting so much attention as is the roofing. There are so many brands of roofing, that it is almost impossible for the farmer to select the one best dited for the farmer to select the one best dited for the farmer to select the one best dited for the farmer to select the one best dited for the farmer to select the continuous country of the continuous country of the continuous country of the country of the continuous country of the continuous country of the count



\$10 and Up Per Acre

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P. H. LaBAUMB,
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all common ailments. Write for it. Po FUTTLE'S ELIXIR Co., 121 Beverly St., Be Montroult H A. Tuttle, Mgr., 32 St. Os Exmare of all bitters; only temporary relia

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CARDS under this head inserted at the rate of \$6.00 a line a year. No card

ABRAM RASTON, Appleby, Ont., Leicester sheep, Show ring and breeding stock for O-7-25-09

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MISCELLANEOUS

H. BARTLETT, Kimbo P.O., Ont., I Co., Riverview Stock Farm. Shorther

JAS. BOWMAN, "Elm Park," Guelph, Ont. importer and breeder of Aberdeen Angu Cattle, Clydesdale Horses and Suffick Sheep Correspondence invited.

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STONE HOUSE STOCK FARM Importer and Breeder of Clydon discovering the state of the ock of all ages for sale, including choice young bulls. Enqui isfaction guaranteed. Hector Gordon, Hewick, Quebec.



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Come and see this new Horse Exchange, It will interest you.

Also the Quarter-mile Track for showing and exercising.

ACCOMMODATION FOR 1,000 HORSES

HERBERT SMITH

60

TERY shortly the 1908 corn crop will be coming along on hundreds of thousands of farms.

It will be this year, as it is every year, the biggest crop of all-ahead of wheat, oats, hay and cotton. It will run into billions of bushels.

Up-to-date machines are used to plant and cultivate it. No large corn grower thinks of doing that work by hand any more.

Most corn raisers treat the fodder as a thing of little value, This is a great loss, for the fodder when cut while the ears are glazing, and then thoroughly shredded, has almost the same feeding value as the ear.

How will you handle your part of it? Will you cut it and shock it by hand just as people did it a generation ago?

And will you afterwards husk it by hand and throw the dry fodder out to the cattle as if it were of little feeding value? Don't do it. It means a loss no farmer can afford.

The last few years have made great changes in methods of harvesting and handling this giant crop,

Corn harvesting machines are just as useful and necessary as wheat harvesting machines.

They save a world of hand labor, they save expense, and they enable corn growers to harvest their crops when the corn is in just the right condition, and keep the fodder from turning into a tasteworthless woody fibre

With a Deering or McCormick corn binder, you can drive straight along, cutting and binding the corn as fast as your team

The only hand work will be setting up the shocks, the same as wheat or oats is shocked after the twine binder. You do not even have to gather the bundles; the binders will deposit them in piles all ready to be set up.

When the corn is harvested, a Deering or McCormick husker

and schredder is almost indispensable.

Your corn will be husked in record-breaking time and at the same time, the fodder—stalks, blades and husks—will be finely

shredded so that every particle of it will be eaten. Shredded so that every particle of it will be eaten. Shredding enables you to get it all. With the extra value you get out of the fodder, with the saving of time and labor and by being able to harvest all your corn when it is in just the right condition. there is no question but these corn machines will practically double

International local agents will be glad to give all particulars relative to these famous corn harvesting and shredding machines. Call on them or write to nearest branch house for catalogs.

CANADIAN BRANCHES: Calgary, Hamilton, London, Montreal, Ottawa, Regina, St. John, Winnipeg INTERNATIONAL HARVESTER COMPANY OF AMERICA

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Why Are Many Ontario Farms Suffering from Loss of Fertility?

This question ought to be answered easily enough by any farmer with the average amount of reasoning power, but the trouble is too many farmers do not stop to think.

Now every intelligent farmer knows that his crops remove certain essential plant food substances from the soil, so that every bushel of grain, every ton of hay, and every pound of beef, mutton or pork sold off the farm permanently removes so much of the soil's fertility. It becomes evident then, that some means must be taken to restore the essential elements of fertility in order to maintain the crop-producing power of the soil.

The three essentials of which a soil becomes depleted in the ordinary process of cropping are **Potash**, **Phosphoric Acid, and Nitrogen**. These may be applied to the soil in the form of **COMMERCIAL** FERTILIZERS.

=POTASH=

in the highly concentrated forms of Muriate of Potash and Sulphate of Potash may be obtained from all leading Fertilizer Dealers or Seedsmen.

Besides increasing the yield, Potash improves the quality of all crops and promotes maturity.

EXPERIMENT ON HAY, 1908

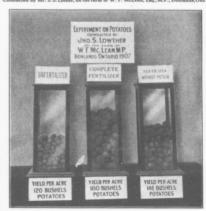
Conducted by Mr. E. Emslie, Oakville



	PLOT 1	PLOT 2	PLOT 3	
Fertilizer	the same	130		Sulphate of Potash
per Acre	-	300	300	Acid Phosphate
	-	120	120	Nitrate of Soda
Yield per Acre in pounds	2232	4224	3204	

This experiment shows an increase of 1020 lbs. directly due to the application of POTASH

EXPERIMENT ON POTATOES, 1907



	PLOT 1	PLOT 2	PLOT 3	
Fertilizer per Acre		160 400 120	400 120	Sulphate of Potash Acid Phosphate Nitrate of Soda
Yields per Acre in bushels	120	180	144	
This experiment shows	an increase	of 36 bushels	directly	due to the application of

The accompanying photographs of experiments on Hay and Potatoes show the benefit of using a well balanced fertilizer containing POTASH. The omission of POTASH from the fertilizer on Plot 3 resulted in each case in a serious diminution in yield.

For further particulars and literature visit our exhibit at the CANADIAN NATIONAL EXHIBITION or write direct to

The Dominion Agricultural Offices of The Potash Syndicate

1102 - 1105 TEMPLE BUILDING, TORONTO, ONTARIO

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YOUR CHOICE OF THREE TYPES OF SEPARAT

EACH ONE A HIGH-QUALITY, EFFICIENT MACHINE



your requirements call for the highest quality Cream Separator in the world the Improved Frictionless Empire is your machine. No other machine runs as easily. Because our patents prevent others using the Frictionless Ball Neck Bearing and the Three Ball Bottom Bearing-admitted by experts to be the two greatest friction-eliminating

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Skimming Devices are few in number, easily cleaned as an enamel cup. Guaranteed to skim as close as any Separator you can name. Easily the most mechanically perfect and durable.

NOT even the Frictionless Empire— or any other Separator constructed-can beat the Empire Star for close skimming. Its Multiple-Cone Skimming Devices get ALL the cream. And they can be thoroughly cleaned in a very few minutes. While the Empire Star is not equipped with the Frictionless Ball Bearings, as in the Frictionless Empire, still the

New Empire Star



runs as easily as any Cream Separator you can find, excepting the Frictionless Empire. Certainly there is no Separator that sells at the price that has so much "quality" put into it. Empire Star will prove satisfactory to you - we guarantee it.

" DISC" Machines, while not the equal of "Cone" Separators. are more common and more widely known. So if you are familiar with them, and your mind is made up on a Disc Machine, we can SAVE you money-and at the same time give you a BETTER Separator. There are fewer "Closed" Bearings on the

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WESTERN OFFICE, WINNIPEG, MAN. FREE DAIRY BOOK This book besides containing complete descriptions of the different Empire machine, is simply overflowing with money with money to the control of the different Empire of the control of

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