Issued Each Week-Only One Dollar a Year

VOL. XXX.

NUMBER 32

RURALHOME

PETERBORO, ONT.

AUGUST 10

1911.



A PRODUCTIVE APIARY THAT YIELDS ITS OWNER A GOOD LIVELIHOOD

Millions of dollars would be added to the income of Ontario farmers were a sufficient number of bees kept to convert into honey the nectar of flowers that goes to waste each year. Our orchard men would have better settings of fruit were more bees kept in their orchards. Many of us who have a few colonies of bees have found them profitable. Here and there a beekeeper is found who is making a comfortable living from bees alone. In this latter class is Mr. W. A. Smith, of Northumberland Co., Ont., whose productive apiary is here shown. Mr.

Smith may be seen to the right of the illustration.

DEVOTED TO BETTER FARMING AND GANADIAN GOUNTRY LIFE

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

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

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



ing accessibility of gear Removing the body-housing, exposes the gearing and ver bearings.

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

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

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

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q. WE WANT AGENTS IN A PEW UNREPRESENTED DISTRICTS

AUG. 26th. TORONTO SEPT. 11th.

\$60,000 IN PRIZES FOR PRODUCTS OF THE FARM AND HOME

Greatest Live Stock Show on the Continent SPECIAL PRIZES : \$500,00 for Best Animal in Holstein Classes.

ALL ENTRIES CLOSE AUGUST 15th

For Prize List and Information write

J. O. ORR, Manager, City Hall,

TORONTO

Mr. John McKee Makes Reply

Som Winner Strategical

Edito., Farm and Dairy.—I observed in Farm and Dairy, July 13th, that my name figured rather conspicuously in a communication from our friends, the Messra. D. C. Flatt and Son. I notice that the Mesers. Flatt do not contradict the statements I made, but rather glory in the "vigorous appetites" of their favorite breed.

I am not going to say anything disparaging regarding the Holstein breed, as I do not think there is any-thing to be gained by newspaper con-troversies. People cannot all see alike, and what will suit one will not alike, and what will suit one will not suit another. There is abundance of room in this wide Dominion for our three leading dairy breeds. There are, however, in the letter above re-ferred to, a few statements mad-which I deem it my duty to briefly referred. refer to

ABOUT COMPARATIVE PRICES.

The question is asked: "I wonder what is the trouble with Mr. McKee and with some other Ayrshire breedand with some other Ayrshire breeders that they are trying so hard to knock the Holstein cow? Perhaps it is the fact that a grade Holstein at public auction will sell for nearly as much as their registered Ayrshires much as their registered Ayrshires. I believe about the greatest trouble Ayrshire breeders have is their inability to supply the demand for Ayrshires. At no time during the past quarter of a century has the demand for Ayrshires been so keen and at such resourcestive vices. for Ayrshires been so been and at such remunerative prices as now prevail. It is utter moneouse to talk of grade Holsteins selling for as much as registered Ayrshires. I would suggest, Mr. Bditor, that you send a marked copy of Farm and Dairy, containing the world's record sale of Ayrshires by Messrs. Robert Hunter and Son to the Messrs. Robert Hunter and Son to the Messrs. Flatt, so that they can see what present-day Ayrshires are selling for. Where in this wide Dominion are grade Holstein cows selling for from \$30.00 to \$950.00, and yearling heifers as high as \$700.00; with the stock bull bringing the magnificent sum of \$2,000.07 PRICKS OF INMERSEE AYRSHIMES.

PRICES OF HOME-BRED 'AVRESTIRES.

Perhaps we will be told that this was a very exceptional sale of imported stock, 'Then go back a little over a year ago to the "Bennig Sale" at Williamstown. This was a herd of Canadian-bred Ayrshires that oad not been heard of for many years either in the show ring or in the dairy test, and yet cows sold as high as \$590.00.

as \$500.00. With regard to the kindly advice that "the Ayrahire knockers pay more attention to the improvement in the weak places in their favorite cattle," I would just asy that had the Messrs. Flatt read a very recent editorial in Farm and Dairy they would have seen that the editor had observed in visiting. Ayrahire herds all over the country, that Canadian Ayrahire country, that Canadian Ayrshir breeders had been doing just that ver identical thing, and that now the old style small feated Ayrshire had been style small teated Ayrshire had been supplanted with cows possessing grand large teats that were making splen-did records in the yearly record of performance test.

performance test.

PERS COST IN SHORT TESTS.

With regard to the bluff about conducting a test and taking food into consideration, the Messrs. Flatt are behind the times again. Such a test was held at Guelph some years ago and proved to be a regular farce. Lis is an utter impossibility to get a cost of mile to the proper short of the performance of the person of t cheap ration for some time after calving and still give a good supply of milk, so that the food consumed during the test would not as all represent the cost of production of the

The Messrs. Flatt speak rather slightingly of the "tiny tests" of the (Concluded on page 9)

Electric Power on the Farm

Hon. Adam Beck and Mr. P. W. Sothman, chief engineer of the Hydro-Electric Commission, returned July 29th from an extended tour of Europe, where they succeeded in securing much valuable information rel ative to the application of electric to commercial purposes. Through to commercial purposes. Throughout the continent they found that electric power was extensively used for farm purposes, and the Minister of Power hopes as the outcome of his investiga-tions that the commission will be ma-terially aided in the proposed scheme of supplying farmers and small users of electricity in Ontario.

In the course of an interview Mr. Beck said: "Our visit to Europe



Investigating the Elecrtic Power Problem The Hon. Adam Beck, chairman of the Hydro-Electric Power Commission, may be Hydro-Electric Power Commission, may be Mariet, eating an electric pice may Mariet, and at the rate of 25 acres per day, it, so that the intention of the Commission to extend the use of hydro-electric power to the rural districts of Ontario.

for the purpose of investigating a number of important matters on nected with the Hydro-Electric scheme has been successful bey our most sanguine expectations. We secured much valuable information at the Electrical Exhibition at Munich, which was confined almost exclusively which was confined almost exculsively to the use of electricity in the hous in the workshop, and on the farm. Some of the interesting features are a model farm, fully equipped with electricity, and a practical demonstration of electric plowing, where fram 15% to 30 excess was their plowed as 25 to 30 acres was being plowed pr day with one plow.

LARGELY USED ON FARMS

LARGENT USED ON PARMS

"In practically all the Europea countries electricity is largely as' extensively used on farms of from 5 to 1,000 acres, for light and power purposes, such as threshing, cleaning of grain, cropping, root cutting, wolf-waving. wumning water, milking. sawing, pumping water, milking warming and lighting houses, stable barns.

"At the municipal farm in Berlin where over 400 horse-power is being used, the municipal representative and the users of electricity were me courteous and willing to give us ever information that we desired. The if formation secured will be of great a sistance to the commission in its proposed scheme of supplying farmer posed scheme of supplying farmen and small users of electricity.

"While we found that the cost of

"While we found that the cost of power and light for the farm we higher on the whole than it will be with us, the cost of distribution is delivery to the farmer was less, at they do not live on their farms, is are grouped in villages. Election from an economic standpoint shed be of greater value to our farms, as wages are from 50 to 100 per of higher here and farm labor me difficult to secure.

osed is my renewal for Finality for another year. In and Dairy for another year. Is well pleased with the paper.—J. I Eagleson, Northumberland Co., 0s.

Issued Each Week

Vol. XXX.

Favorable Exp Robert M

The weighing dairy cows has le ing, and larger 1 1903, and from t our good cows. In 1907 we start found that we h were not worth t best and bought lbs. of butter, wh we had done with years before. In and 881 lbs. of increase being dir ing our milk.

We were able t dispose of the poo deal better advar cows we got the dairyman should his stable, so tha note the difference posure to cold rai milk flow. Anyonfrom his herd and three days in the fat will be surprise ways he can imp has been our expe

Feeding Da L. K. She

For producing a fall I find that not aftermath. Many the second growth value for adding l creasing the follow eration than its va has been, however, clover aftermath . most of the fertilit soil we cannot see der so much valual peas, oats and vete contributes to the

Our standby, how both green and in usually have a good this is fed in conj vetches through the the early fall. We as a great many fo pending on the gree ing no other feed on the corn when it w We often wondered, have wondered also, the corn, the cows, i milk flow, actually v

A chemical analys bowever, explains th in tassel (the stage started to feed), it



Only \$1.00

Vol. XXX

FOR WEEK ENDING AUGUST 10, 1911.

No. 32

Favorable Experience With Cow Testing Robert Murray, Picton Co., N.S.

The weighing and testing of the milk from our dairy cows has led to Letter breeding, better feeding, and larger returns. We started dairying in 1903, and from then till 1907 we just guessed at our good cows. We made very little headway. in 1907 we started weighing and testing. found that we had some very poor cows which were not worth their keep. We kept two of the best and bought two more. In 1908 we sold 578 lbs. of butter, which was a great deal better than we had done with the same number of cows five years before. In 1910 we sold 375 lbs. of butter and 881 lbs. of butter fat from six cows, this increase being directly due to testing and weighing our milk

We were able to pick out our best cows and dispose of the poor ones, also to feed to a great deal better advantage, because we knew which cows we got the most lutter fat from. Every dairyman should have a set of scales at least in his stable, so that he can weigh his milk and note the difference that change in feed or exposure to cold rain and cold winds makes in the milk flow. Anyone who starts weighing the milk from his herd and keeping records for at least three days in the month and testing it for butter fat will be surprised to see in how many different ways he can improve his herd. At least that has been our experience.

Feeding Dairy Cows in the Fall

L. K. Shaw, Welland Co., Ont.

For producing milk in the late summer and fall I find that nothing is equal to a good clover aftermath. Many of our neighbors plow down the second growth of clover, claiming that its value for adding humus to the soil and so increasing the following crop is a greater consideration than its value for feed. Our experience has been, however, that cows will milk as well on clover aftermath as on June pasture, and as most of the fertility is returned directly to the soil we cannot see our way clear to turning under so much valuable food. The last cutting of peas, oats and vetches, sown late in June, also contributes to the fall feed of our dairy cows.

Our standby, however, for fall feeding, is corn, both green and in the form of ensilage. We usually have a good supply of ensilage over, and this is fed in conjunction with peas, oats and vetches through the dry part of the summer and the early fall. We once made the same mistake as a great many farmers are still doing of depending on the green corn for fall feeding. Having no other feed on hand, we would start to cut the corn when it was little better than water. We often wondered, and I suppose many others have wondered also, why when we started to feed the corn, the cows, instead of increasing in their milk flow, actually went back.

A chemical analysis of corn at various stage bowever, explains the difficulty. When corn is in tassel (the stage at which we at one time started to feed), it is almost all water, and the

cows could not possibly consume enough to get a sufficient quantity of dry matter to supply their needs. Knowing this, we feed our left-over ensilage first and reserve the green corn until it is in the late milk or glazing stage. From experience I should estimate that ripe corn is worth at least four times as much for feeding as corn in the tassel.

The corn is run through the cutting box and fed in the stable when the cows are being milked. When the corn is cut and loaded onto a wagon and then drawn to a pasture and dumped the more timid among the cows do not get their fair supply, and particularly in the latter part of the season, when the corn is most valuable as a feed, a large percentage of the coarser portions will be wasted. Feeding in the stable has an additional advantage in that the cows there are cool, free from flies, and consume their rations much more contentedly and hence with better results in the milk flow.

When we have more alfalfa hay we believe that we will be able to do away with the feeding of corn in the fall almost altogether. I have been told by experienced alfalfa growers that alfalfa hay gives excellent results as supplementary feed for short pastures.

Should Calves Suck The Cows?*

Prof. H. H. Dean, O.A.C., Guelph.

me extensive experiments conducted at the Michigan Agricultural College, indicate very strongly that there is no profit in producing steers by allowing the calves to suck their dams. The average of three years' experiments with grade Shorthorn, Hereford and Polled Angus beefing animals raised in this way showed that it cost 6.73c a pound live weight to produce beef when calves sucked their dams, while similar calves from similar cows raised on skimmilk and where the cream was made into butter, produced beef at an average of 5.23c a pound, while the cows gave a profit of \$27 to \$28 a cow over cost of feed on their butter. The animals fed on skimmilk made nearly as good gains in live-weight as did their companions that sucked their dams, and the cost was considerably less. In a word, the animals raised on skimmilk and meals were sold at a slight profit, whereas those allowed to suck their dams were produced at a loss except for the manure.

The practical lesson for farmers in those sections where calves are allowed to suck their dams is that such cows are kept and such beef is produced, at a loss, whereas if the cows are milked. the calves reared on skimmilk and its substitutes and the cream manufactured into fine butter at the creamery, it would add profit to the farm and help the creamery business. In nearly every creamery section in Western Ontario we have some farmers following the expensive plan of producing beef by allowing calves to suck their dams. There is room for missionary work among such farmers.

*Extract from an address before the W.O.D.A. Con-

A Good Profit from Hogs

D. P. Cameron, Stormont Co., Ont.

There is lots of money to be made out of hogs by keeping the right kind and feeding them well from start to finish. At the price of pork and the price of milk feed to day there should be a good margin of profit left for the feeder. To prove my statement I will give my own experience with hogs this spring and summer.

I had a pure bred Yorkshire sow two years old weighing 600 lbs. that farrowed 13 pigs on February 26. I sold six of the little fellows to my neighbors at from six to seven weeks old for \$5 each, as breeders, reserving six boar pigs and one sow. I castrated five of them and commenced feeding the bunch. They had what whey they would drink, which I didn't value, as otherw'se it would have been left at the cheese fact ry The following is a statement of feed and profit: April 20 By 7 pigs at \$5.00 each.. \$35.00

July		100 feed flour at \$1.70 5 cwt. middlings at		
	, ,,,	7 cwt. shorts at \$1.25	7 00	
		5 pigs sold at \$6.75; live weight 825 lbs 1 sow sold as a brood		\$55.68
		sow		15.00

\$52.45 \$85.68 52.45

\$33.23

Alfalfa as a Soil Builder D. W. Friar, Colorado Agricultural College

The great virtue of alfalfa is its ability to increase the nitrogen content of the soil. About 77 per cent. of the air is nitrogen. It is estimated that there are 35,000 tons over every acre of land, worth, at the present rate of 18 cents a pound, over \$12,000.000, if it could be used. It is taken out of the air into the soil by very minute plants called bacteria, which live in the little

nodules found on the alfalfa roots. It takes about

25,000 bacteria to measure an inch. They take the nitrogen from the air and use it in their life processes and then give it up to the alfalfa plant in another form. Alfalfa plants remove a large amount of nitrogen from the soil, but the bacteria collect so much that a portion is left for other plants that follow.

If the soil is too wet, the Lacteria cannot work, and if too hard, the air containing the nitrogen can not get to them.

All plants which have the ability to add nitrogen to the soil, like alfalfa, are called legumes. Some legumes closely related to alfalfa are sweet, red and white clover; some more distantly related are beans and peas.

We have solved the question of getting rid of ragweed seed in clover. Ragweed has a large seed. Our seedsmen are installing rollers which. while not injuring the clover seed, will crush the ragweed .- T. G. Raynor, Seed Branch, Ottawa,

tract from an animal's appearance in the show ring. It is in the very fine points of finishing, such as trimming off these hairs, which points are neglected by the great majority of exhibitors, that gives to the herd of the high-class show man at the big fairs, that smooth slick appearance that is not seen in the exhibits at our smaller fairs. In a previous issue of Farm and Dairy the main essentials in feeding and fitting dairy cattle for the show were given. The points mentioned herewith are attended to in the last few days before the show or even the day before, and while they may seem of minor importance, great stress is laid on them by the high-class show man.

Hair clippers play an important part in the final fitting. All of the long hairs around the udder should be cut off and the hairs on the belly on the udder and belly give the animal a coarse look that is not consistent with dairy quality. The tail above the switch should be clipped in any case. Additional clipping depends upon the breed. Many Ayrshire men clip all of the head, Scotch bossy, while the same treatment for the Jersey would almost ruin its chances of winning. A general rule would be to clip off all long hairs around the udder and belly, to clip the tail, and

are watered and given a good feed of some polatable food of which they will eat a large quantity. I have secured best results with green alfalfa hay or, lacking that, green corn or peas, oats and vetches. The animal then goes before the judge with a good full stomach and consequently a barrel showing large capacity. Of course, with old cows inclined to be paunchy or aged bulls such a line of feeding must not be followed too far, and the breeder must use his own discretion. No course of feeding immediately before judging, however, can make up for lack of fitting beforehand.

The rules of most fairs require that the cows be milked dry the evening previous to judging, but the morning before they are judged milking should be deferred until after judging in order that the cows show a good full udder. Letting the cows go for two milkings, as some breeders do, is not only cruel and inhuman, but with a good judge is detrimental to their chances of success, as the udder will be too hard and lack that silky quality that a first-class udder shows when not too full.-"Herdsman."

The Silo-and a Substitute A. D. Wilson, Extension Division, Minn.

The shortage in the hay crop should prove a great stimulus to the erection of silos. It should also have the desirable effect of increasing the acreage of corn. With a good acreage of corn, and silos to store it in, the shortage in the hay

crop, from the standpoint of feeding the stock on the farms is not serious.

> A safe policy for the management of our farms must provide a good acreage of hav



crop to take care of his stock. It is desirable, however, to plan for a reasonable acreage of pasture and hay; because of the great value of these crops in cleaning land and maintaining in it a reasonable supply of vegetable matter.

A SUBSTITUTE FOR ENSILAGE

If one has not a silo, fodder corn-that is, corn sowed thickly and cured in the shock in the field-makes a most excellent substitute for hay. In fact it is a very valuable adjunct to he live stock ration, even though there may be plenty of hay available.

A number of farmers who have no silos are getting excellent results stacking the corn green outside. Corn thus stacked has come out as "A No. 1" ensilage, except for the eight to 12 inches around the outside, that naturally moulds because the air gets at it. This method of supplying succulent feed in the winter is worth looking up by farmers who haven't silos.

Dogs or noisy and rough boys soon change the balance to the wrong side of the ledger. Gentleness pays in the dairy herd .- H. Johnson, Middlesex Co., Ont.



ing the growing season this year has been ght As a consequence, there is not moisture enough to mature the corn crop unless every available pound of it is conserved for that purpose. Corn does not demand a large supply of moisture during the early part of the season because the free quent cultivation necessary to keep down the weeds forms a dust-blanket and retains the larger part of the water that falls.

Cultivate Corn to Preserve Moisture

Andrew Boss, University of Minnesoto

In many sections the rainfall last year we in

A period has been reached in the growth of the crop, however, when moisture is needed. The plants are large, the leaf surface is fully devel. oped, and transpiration is rapid. In addition to the large amount of water transpired by the plants, the hot summer sun, reaching the bare ground, will evaporate large quantities from the surface, unless the soil is broken by continued cultivation. The ground must be covered with a dust-blanket, or with a close cover-crop of semikind, to prevent evaporation. Unless the water is saved for the use of the plants, nubbins and small ears will form, and these will not completely fill out.

FREQUENT CULTIVATION

Experiments in the continued cultivation of corn during hot weather indicate that an increased yield can be obtained by frequent cultivation. It is well known that, in fields where the leaves of the corn are curling, evaporation and suffering from lack of moisture can be over. come by cultivation. Some of our corn experts have in their own fields in this way added 10 to 20 bushels of corn per acre to their yields. They have also secured full crops of corn, when corn on adjoining land that was not cultivated has been a very short crop.

It will not be possible, of course, to continue cultivation with the sulky or riding cultivators after the corn tassels out. Single row cultivators, however, drawn by one horse, can be sent through the cornfield until the 1st of September, if neces sary. The cultivation should be shallow, not more than two to two and a half inches in depth, and as frequent as necessary to form a perfect dust mulch. Judgment in this matter is necessary. and the experience of others should be drawn upon to give the best results.

It is worth while for the farmer to give espe cial attention to this matter at this time, for the reason that there is a probability that all of the grain crops, as well as corn, will be short and feed prices consequently high. If 50 cents to \$1 worth of cultivation per acre will give a yield of five to 10 bushels more of 60-cent corn, it is an investment well worth making. There is no doubt but the cultivation will increase the yield and insure better-filled ears and a more marketable product

Great care and judgment should be exercised in securing the hay crop. Many of the yields and the poor condition of the stock are traceable to the inferior quality of the bulky feed provided for them .- N. J. Kuneman, Winnipeg, Man.

In a province like Ontario, where agriculture ecupies such an important place and in which the live stock industry is being so largely de-eloped, it should be the aim of every farmer to make the very most out of his soil. The pastures should be greatly increased in quantity and quality. Careful provision, however, should be made to supplement the pasture lands by fur nishing suitable green fodder crops when requi in the summer season. If this important branch of the work were properly looked after, it would make a tremendous difference in the development of the live stock industry and in the fnancis progress of the agriculture of Ontario.-Prof. C A. Zavitz, O.A.C., Guelph, Ont.

The Fine Points in Finishing Dairy Cattle

It is wonderful how a few long hairs will de-

trimmed in such a manner as to show up the milk veins to the best possible advantage. Long hairs neck and the fore part of the shoulders, and such treatment improves the appearance of the elsewhere only when it will give the animal a



Two Money Makers on a Brant County Farm

The two silos here illustrated have enabled their owner, Mr. A. W. Van Bickle, and Co., Ont., to keep double the stock that he was able to before creeting the silos. The silos are of sives, if by 33 and 17 by 31 feet, and cost \$175 and \$195 respectively, including p.int. The larger silo has been up 11 years, the smaller one cight.

smoother and more refined appearance, and will not interfere with its "breedy" look.

In slicking up the hide some breeders use prep arations of oil, but hand rubbing and continual brushing with a soft brush are equally effective. Putting up the tail in small braids the night before the animals are judged and unbraiding the following morning gives the switch a fine, silky appearance. All irregularities and roughness on the horns should be filed off and the horns sandpapered or scraped with glass. They may then be polished. I once heard a prominent Jersey breeder state that his rule was to polish the horns until he "could see his face in them." The hoofs also, which particularly in the case of bulls are apt to be overgrown, should be chiselled down and polished.

Indications of good feeding capacity is one of the first points looked for by the judge of dairy cattle. A large barrel therefore is desirable and can be obtained even on an animal weak in this respect by a special course of feeding. The day before the judging both the food and water rations are cut down considerably and the animal given a couple of handfuls of salt. A few hours before the judging is to take place the animals

August 10,

understood, and

Educat F. C. G. An extremely tion of a colt,

great errors are is in bitting, o This organ car exercising the tributing to th It is not only that the mouth tion, but also i ing him, in pro head and neck, lating speed. these things the that organ has becomes respons

rider or driver the pressure is in collect, or alter CULTIVAT The cultivation

meant one that

the bit brought

prime importar liability, comfor and action of a give it special a remember that i is easily spoiled remedy. There teaching a child mouth. In both muscles and ner ing the muscles to make smooth in the other you nerves of the he sure. Both pr practice, and horses make is t of carrying out bit is usually p driven before h pressure from it, ing out this lac may result, part horses, who read

BAD The experience tion with the m as putting the to drawing the tong the mouth open, pulling, unsteady

the head too hig carrying the head mixing the gait. away. In order mouth responsive get the tongue to pressure from the bars of the lower injury. In cultiv to simply put a b colt used to its exert increasing use of reins buckl tack, on either siis frequently made at first, and ther on the tongue b The reins at first so that when the

his nose out he fe the restraining in to it. Constant r "Extract from an addr

position the sligh

brought to bear or

Educating the Colt's Mouth*

F. C. Grenside, V.S., Guelph, Ont.

An extremely important point, in the education of a colt, but one that is very imperfectly understood, and one in connection with which great errors are made and much suffering caused is in bitting, or the cultivation of the mouth. This organ can undoubtedly be considered as exercising the most important influence in contributing to the control of the horse.

It is not only, however, in influencing control that the mouth exercises its very important function, but also in balancing the horse, in steadying him, in promoting a graceful carriage of the head and neck, in increasing action and in regulating speed. In order that we can attain all these things through the medium of the mouth, that organ has got to be cultivated until it becomes responsive. By a responsive mouth is meant one that readily yields to the pressure of the bit brought about by tension on the reins by rider or driver. The mouth responds, whether the pressure is intended to restrain, guide, steady, collect, or alter the carriage of head and neck.

CULTIVATION OF MOUTH IMPORTANT

The cultivation of the mouth being of such prime importance in contributing to the reliability, comfort in using, style, speed, balance, and action of a horse, it behoves the trainer to give it special attention, in handling a colt, and remember that in the process of bitting, the colt is easily spoiled, and that defects are hard to There is a marked analogy between remedy. teaching a child to write and making a colt's mouth. In both instances you are cultivating muscles and nerves. In one case you are teaching the muscles and nerves of the hand and arm to make smooth lines easily in forming letters; in the other you are educating the muscles and nerves of the head and neck to respond to pressure. Both processes take time and repeated practice, and the mistake many handlers of horses make is that there is no systematic plan of carrying out the training of the mouth. The bit is usually put in the mouth, and the colt driven before he understands anything about pressure from it, and what is means. By following out this lack of method many bad habits may result, particularly in sensitive, nervous horses, who readily chafe under any discomfort.

BAD HABITS CULTIVATED

The experience of repeated irritation, in connection with the mouth, leads to such bad habits as putting the tongue over the bit, tongue lolling, drawing the tongue up in the mouth, going with the mouth open, crossing the jaws, side lining, pulling, unsteady carriage of the head, carrying the head too high or too low, going corner-wise, carrying the head sideways, hitching, interfering, mixing the gait, rearing, plunging, and running away. In order that we can make a horse's mouth responsive and steady, it is necessary to get the tongue to stand a reasonable amount of pressure from the bit, as this organ protects the bars of the lower jaw from undue pressure and injury. In cultivating the mouth the first step is to simply put a bit in it for a few days to get the celt used to its presence, then by slow degrees exert increasing pressure on the tongue by the use of reins buckled to the bit, and then buckled tack, on either side, to a surcingle. The mistake is frequently made of having these reins too short at first, and thereby exerting too much pressure on the tongue before it becomes inured to it. The reins at first should be only sufficiently tight, so that when the colt holds its head in its natural position the slightest amount of pressure is brought to bear on the tongue, but when he sticks his mose out he feels the increased pressure, and the restraining influence of the bit, and he yields to it. Constant repetition of this results in frequent yielding, thus cultivating responsiveness. and at the same time habituating the tongue to pressure. E. ary day or so the reins can be shortened slightly, thus increasing the pressure by slow degrees, but never sufficiently to tire the nerves and muscles, so that the colt will fight it or hang on it. If he drops his head too low, use a bearing rein, in addition to the other reins. Use a separate bit for the bearing rein.

FURTHER EDUCATION

A couple of weeks of this sort of treatment in a box stall will be a good start in making the Leading the colt about or mouth responsive. lunging him with the Litting tackle on will still further promote the education of the mouth, but you cannot finish the making of the mouth in this way. It has to be done in harness, or in the saddle. A great deal depends upon the delicacy of touch of the driver or rider of a colt, as to the progress the mouth makes in responsiveness. The hand should be light, but steady, the mouth should always be felt, and the colt kept collected, as well as the progress of his education will per-

Experience With After Harvest Cultivation

E. F. Eaton, Colchester Co., N.S.

After harvest cultivation is one of the best methods I know of for getting rid of annual weeds such as mustard, pig weed, etc., and it will even go a long way towards eradicating weeds with a creeping root-stalk, such as perennial sow thistle or quack grass. We have practised after harvest cultivation for the eradication of mustard with good success, but one of our neighbors, an Englishman, who a few years ago bought a very dirty farm, has had phenomenal success with cultivation at this time. His farm was so dirty with yellow mustard, or cadluck, as we call it, that decent grain crops could not be grown, and it was a continual struggle to keep the hoe crops, mangels and potatoes anything like clean.

A couple of years ago our English neighbor surprised us by cutting about one-half of his grain crop when quite green and making it into hay and starting fall plowing immediately. It was only a couple of weeks until the plowed land had



The Traction-Engine can be made to play an important part in Road-Making

traction-engine can be made to do the work of six or eight borses in hauling the road grader, when ing gravel or stone roads, On such roads the traction-engine is the cheapest power and does the work quickly and satisfactorily than horses. The outfit above illustrated is at work on a piece of road being runted under the Ontario county roads system.

mit. Loose rein drivers are an abomination, as they teach the mouth nothing, and are apt to spoil a horse's gait. Hitching, forging, and bad carriage are promoted by loose rein drivers.

The position of the bit in the mouth is of much moment. It should not be too high or too low, and the trainer has to be guided by the manner in which a horse faces it, in determining its proper location. If the mouth does not yield to the pressure of the bit, lower it, and put it down as low as possible, in order that the animal will still face it with a reasonable degree of firmness and not put his tongue over it. If he shows evidence of doing this and keeps behind the bit, raise it. Much harm is done by the very common practice of placing the bit too high in the mouth. When it is too high leverage is lost, and you cannot bend the head upon the neck, and get response from pressure. Other untoward results are that the lips are curled up and the angles of the mouth made frequently sore, and the cheeks are pressed against the anterior grinders, causing abrasions and excoriations of the lining of the cheek. Lungers, side-liners, tongue lollers, open mouths, sore mouths, dry mouths, crossed jaws are encouraged by having the bit too high in the mouth.

I have seen men trotting loads of apples five and six miles in springless wagons. It is not hard to imagine the condition of these apples after such treatment. Were I a buyer, I would refuse to buy apples not drawn to the station in wagons having springs .- Albert Tamblyn, Durham Co., Ont.

a fine math of young mustard. This was immediately plowed under, as was also the crop that followed it. Two or three plowings and frequent diskings did much to clean that field, and by following up the same practice our neighbor will soon make a clean farm out of what was always known as the dirtiest farm in the section.

After harvest cultivation has other advantages besides the control of weeds. The frequent cultivation brings the land into a very fine tilth, and soi' moisture is conserved. If it is ribbed up in the fall to give the frost a good chance to work the land is in the very best condition to produce a first-class crop of roots or grain the following

Jottings From Farmers

Never give milk to a calf in a dirty pail. Dirty pails and over-feeding with skimmed and sour milk are the principal causes of scours in calves. A good remedy for scours is to quit giving skim milk and give a pint of new milk in which is stirred a small handful of powdered charcoal. Continue this treatment until the calf recovers. -H. Johnson, Middlesex Co., Ont.

A weed seed very commonly found in red clover is ribbed grass, or buckhorn, which most farmers know very well, especially those who are producers of seed. This weed could be very largely eliminated from our clover fields by going over the meadows a few days after they have been mown in narrow strips armed with a spud or hoe to cut them out just below the crown of the plant .-T. G. Raynor, Seed Branch, Ottawa, Ont.

*Extract from an address at the Ottawa Winter Fair.

Resessantessantessantes

SWINE DEPARTMENT
Our renders are invited to ask questions in regard to swine. These remains the summered in this desart ment with the summer of the summer o

Farmers' Opinions on Hogs

As long as Ontario farmers go in for dairying as extensively as the now do, hogs will occupy an im portant place on the farm, and the supply will be fairly consistent. Reports received from Farm and Dairy's correspondents in all parts of Ontario however, indicate that hogs are not however, indicate that nogs are not looked on with great favor as profit-making animals, but are kept mostly to consume the dairy by-products. Al-most all Farm and Dairy correspondents report fewer spring litters in this than in previous years, and also a serious loss in spring litters.

The unpopularity of the hog that

was once known as the mortgage lift-er is variously explained by Farm and or is variously explained by Farm and Dairy correspondents. An Ontario county farmer, Mr. F. M. Chapman, says: "Recent prices (\$7 a cwt.) will pay us for our trouble in looking after hogs, but most of us feel that a price below this yields us no profit." For been considerably below \$7, which has discouraged many farmers from breeding their sows for fall litters

Another reason for the unpopular-ity of hogs is touched by Mr. Thos. H. Myers, of Lambton County, when

he calls it a "most uncertain busihe calls it a "most uncertain pusi-nes." Several of our correspondents believe that did our packers pay ac-cording to quality there would be more encouragement for farmers to cording to quality there would be more encouragement for farmers to breed a good class of bacon hogs. Mr. J. R. Cole, of Durham County, com-plains that "packers and drovers do not discriminate enough between selects and fat hogs for the good of the bacon industry." In some sec-In some secthe bacon industry. In some sec-tions also the large growth of our towns and cities, and the consequent demand for milk and cream at redemand for milk and munerative prices, is driving farmers out of hogs altogether. "Farmers out of hogs altogether. "Farrsell their milk and cream, and going out of the hog business alto-gether," writes Mr. Wm. Clarkson, of going out writes Mr. Wm. Clarkson, or York County. "We are raising more calves than in other years, good milk cows being high in price and offering of larger returns than the raising of

It would also seem from the reports received that we farmers ourselves received that we farmers ourselves are partly responsible for the unsteadiness of the hog market. Little effort is made to produce a steady supply, many of us rushing into the hog business when prices are high, and dropping out again in the slump that There are still those, how ever, who regard the hog as one of ever, who regard the hog as one or the most profitable animals on the farm. On another page of Farm and Dairy this week, Mr. D. P. Cameron, of Stormont County, Ont., gives fig-ures showing where he has made ures showing where money in hogs. The The reports of some of our correspondents follow

MORE THAN LAST YEAR
"There are more hogs in this local-

ity than last year, and the tendency ords are found poor yields of only 500 is towards more hogs yet."—A. Blais, pounds of milk and 18 pounds of fat is towards more hogs yet."—A. Blais, Glengarry Co., Ont.

hoga this year is very noticeable, due to the low prices commencing last fall and contin uing through the winter There are fewer spring litters than previously."-A. P. McDonald, Glengarry Co., Ont.

garry Co., Ont.

"There are fewer hogs here than
at this time last year; cause, high
price of feed and low price of pork.
Fewer sows have been bred for fall Fewer sows have been bred for fall litters."-W. E. McKillican, Glengarry Co., Ont.

"There are not as many hogs as last year, and the tendency is towards less."—D. P. Cameron, Stormont Co.,

DEPENDS ON THE PRICE DEFENDS ON THE PRICE
"There is a larger number of hogs
I hand than last year. The number
hogs depends on the price."—Arur Christie, Dundas Co., Ont.

"There were more spring litters than last year, but mortality was so that there are fewer for sale

D. H. Barber, Grenville Co., Ont. There were fully double the num-There were fully Goulie the number of spring sows kept last winter as compared with the winter previous. There were, however, many losses in spring litters, and a heavy mortality in young pigs. zs. There is a perceptible the number of hogs."— A. Camerford, Hastings Co., Ont. "There are about the same number of hogs as last year."—J. R. Cole, Durham Co., Ont.

"Hogs are slightly in excess of last year. Present low prices will cause many of us to raise fewer hogs."—1.

Chapman, Ontario Co., Ont "The number of hogs is on the cline owing to low prices." — V Clarkson, York Co., Ont.

"The pig crop is about the same as "The pig crop is about the last year. Some farmers are of the opinion that hogs are going down and the sows." Geo. Laith.

opinion that hogs are going nown and are selling their sows."—Geo. Laithwaite, Huron Co., Ont.
"There are fewer litters than in previous years, but the litters have been unusually large."—Wm. L. Falkingham, Grey Co., Ont.

"There are fewer hogs here than a year ago. The loss in spring litters was serious."—H. A. Drummond, was serious."—H. Wentworth Co., Ont.

Hogs are falling off to a slight extent. Some farmers are oreeding only one sow instead of two."-D. C.

have kept up to 80 hogs now have 10 or 12. It is a most uncertain business."—Thos. H. Myers, Lambton

Some June Contrasts

C. L. Whitely, in Charge of Records, Ottawa

Many grade cows are making good records this season. One grade cow near Cassel, Ont., has given over 200 near Cassel, Ont., has given over 200 pounds of butter fat in three and a half months. In the cow testing associations at Warsaw, Ennismore, Cassel and Tayside, Ont., the average yield of all cows tested for June was over 35 pounds of butter fat. Eight over 50 pounds of outber 18th. Edgin associations in Quebec average over 30 pounds of fat per cow. A good many herds, however, in Ontario and Quebec average less than 700 pounds of milk and 25 pounds of butter fat

during June.

In Prince Edward Island the high-In Frince Edward Island the high-est average yield for June was at Kensington, where the 150 cows in-cluded in the "Dairy Record Centre" there gave 787 pounds of milk, 3.7 test, and 30 pounds of fat. Included at this centre are several individual cows that s that gave over 900 pounds of and 35 pounds of fat. One of the best yields was from a seven-year-old grade Shorthorn that gave over 1,200 pounds of milk and 40 pounds of fat. But hard by these good rec- Nott, Elgin Co., Ont

from six and seven-year-old of freshened in April and May.

Beteween yields of 40 and 10 pounds of fat in one month there is too great a difference to be overlooked. It is all the difference between a very satisfactory return and no adequate payment whatever for all the energy. time, feed and care expended on cows that are not capable of making money for their unfortunate owners. should conserve our energy by ke ing better cows. We cannot afford to keep a herd of only medium capacity

pacity.

Cow testing pays abundantly, for it shows which cows are making a good profit, and again which cows cannot by any strength of imagination of the country of the co tion be considered in the same cate

The 3,500 Lb. Cow Again

Editor, Farm and Dairy,—In the reply to my letter published in Farm and Dairy of June 22nd, re "Favors the 3,500 Lb. Cow," it is stated that the question of feeding dairy cows is not what it costs but what net return the cows will give. This stateme t is correct, but wrong deductions. Intensive dairying does not pay at present prices of but-ter and cheese. It is refreshing to It is refreshing see you follow up my ideas so closely but you soon drift from the straight and narrow way in your statements of costs and profits. You neglect two important items, viz., interest on the cost of the cows and their attendance. This will very materially reduce the 35 per cent. net profit on Mr. Brethen's fresh cows.

You contend that the 3,500 lb. cow will not give 35 cents profit a day even if fed on nothing. Also that she is only fit for the rich man for the benefit of her society. Your theories show that you are a genuing tenderfoot in need of coaching. The 3,500 lb. cow is milked about six months yearly; she gives a fine flow for about two months, which is grad-ually reduced if she is not assisted Her first job is to veal her calf, which she readily does on half her product. The calf is worth \$12 at four months. She also furnishes cream during her period of lactation to produce \$25 worth of butter. The skim milk at 20c a cwt. is worth \$7, making a total of \$44. The first cost of the cow heifer would be about \$30.

as a heifer would be about the cows.

These results are obtained by cows. my herd in six months on and browse on a rough range. Being dry early, such a cow puts on flesh and is able to practically winter her-self. She gets a little wild hay, some straw and a quantity of turnips. The whole is worth more in manure than in any other form. Being dry a long this treatment leaves fine form for her summer's task.
You will note that this cow prac-

tically pays one hundred cents dollar, her own price included, each year. This bears out my contention that no cow nets more, cost considered, than this desirable animal. This cow, instead of being merely so-ciety for the rich man, is one of the best levers to shift the poor man on to easy street.—G. W. Cann, New Westminster Dist., B. C.

received my pure bred Ches ter white pig shipped me by Mr. F. H. Reesor, of Cedar Grove Farm for Farm and Dairy, in return for the nine new subscribers, I secured for that paper, last Wednesday, an am very much pleased with Everybody says he is a nice one. I think he was well worth trying for, as I had no trouble in getting the subscribers. All the subscribers are pleased with the paper, and I think that more boys should try to seeing pure bred pigs too.—Clarence R



FARM \$10.00 to WINNIPEG

AND CERTAIN POINTS IN WESTERN CANADA Including Points on Grand Trunk Pacific Railway via Chicago, Duluth and Fort Frances.

\$18 00 ADDITIONAL RETURNING

From all stations north of, but not including Main Line Toronto August 12th to Sarnia Tunnel, via Stratford, to and including the line from Toronto to North Bay and west in Ontario.

August 16th (From Toronto and stations east in Ontario; also east of Orillia and Scotia Junction in Ontario.

August 23rd (From all stations Toronto, North Bay and west in Ontario.

August 25th From all stations Toronto and east of Orillia and Scotia June-

Full particulars from any Grand Trunk Agent, or address A. E. Duff, District Passenger Agent, Toronto

******* FARM Seeding Fai

August 1

(!) I have a spring with recoving to the c what to do fallow, as uggest sowing while next year

Wha Gates that h stant source of opened, are a go

I shall be glad t matter from so experienced in s (2) Is it advisa fall wheat in t (1) It is diff satisfactorily, ne crops you grow

rotation you a plowed at once shared cultivato will work consid the thistles, alth year you can us again during the spring before pla Should you n it again next s oats, seeding it Any thistles th

Any thistles

topped off with

grain shoots into

the clover catch the thistles in c can get a hoe c If the field be and you fear the sufficiently by t will give between may carry the fie next spring, and ing it without a last of June, she vote this area t

would not case to leave the low next season. (2) Some splen have been reporte from seeding in

might carry it or

and sow part of

the rape early in

wheat. The alfal sive we would no be sown in this w perimental way, methods of sowing certain of giving

**************** FARM MANAGEMENT

Seeding Failed-Thistle: Prevail

Seeding Failed—Thistle: Prevail

(1) I have a field of 14 acres (of barley and of oats) which I seeded down last spring with red elever and timothy, but come to the far seezen there is nothing yard manure. There are a good many thistles in the field: they seemed to thrive in sylic of the drouth. Can you advise in sylic of the drouth and field? I am the field with the seemed to thrive in sylic of the drouth. Can you advise the seemed to thrive in sylic of the drouth. Can you advise the sylic of the sylic of

Good Gates an Asset Ralph A. Steele, Guelph, Ont.

A large percentage of the profits from farming leaks out through ram-shackle gates. Many a crop has been scriously damaged by stock gaining

In opening and closing most farm gates enough time is consumed in a year to pay for an entire new set that would last 10 years or more and reduce "operating expenses" 75 per cent. One of the most detestable features

One of the most detestable features of driving or riding over farms consists in opening and closing, dragging, mud-clogged, unsightly gates. I have called attention to this question of gates in the belief that it is entitled to the serious consideration of all stock-farmers. Gates are a large factor in successful husbandry. No farmer can secure the full results of lactor in successful husbandry. No farmer can secure the full results of his work nor make the most of his no solved for him. Ignored, it is set to solved for him. Ignored, it is set to cause accidents and trouble solved husbanders of dollars. Good business farmers will not ignore Good business farmers will not ignore the solvent husband hu

Nova Scotia Crop Report

The present season in Nova Scotia has been dry and crops generally will not be as good as last year, which was a canner year. The fruit crop, however, is an exception to the rule, however, is an exception to the ruse, the highest yield on record being anticipated. Fruit growers report unusual freedom from fungous pests, and they are looking for the best quality of apples they have ever produced. ity or apples they have ever produced. Hay, compared with 1910, will be a short crop, as will also be potatoes, which is a very important crop in Nova Scotia. Although not as good as last year, the grain crops, turnips, and other roots will be above the aver-

There has been a three per cent. increase in the number of dairy cattle. Beef cattle remain stationery. Sheep

have declined three per cent. have increased four per cent. All cor-respondents report live stock in extra respondents report tive stock in extra good condition, due to the abundant crop of the past year, and the extra amount of hay on hand during the past winter.

Seed Grain Selection

J. W. Clark, Brant Co., Ont.

We farmers as a rule are paying more attention to the selection of our seed grain since the Canadian Seed Growers' Association commenced its work. I have been working with its work. I have been working with the Association and when I say that it is a good thing, I speak from ex-perience. As a rule, we farmers are too careless in the selection of our seed grain. Too many of us thresh all the grain together and then take what we want for what we want from the bin for seed The simplest plan and, for the most of us I believe, the best plan, is to start us I believe, the best plan, is to start before we cut our grain and select the best part of the field, cut, store, and thresh it by itself.

and thresh it by itself.

The best method of selecting seed and the one which will give the best results, is to go into the field and select the very best individual plant and breed up a strain of seed from this plant only. Most farmers, however, will not do this. And for them ever, will not do this. And for them the first plan is the best.

Land For Alfalfa. — Alfalfa will grow anywhere that red clover flour-ishes. Land for alfalfa should be well drained either naturally or arti-ficially as wet land is not good for any kind of clover.—Henry Gendinn-les Ontario Co. Ont. ing, Ontario Co., Ont.



What a Source of Satisfaction is a Gate that Opens Eavily

Gates that have to be lifted and carried back by main strength are a con-stant source of amoyance-particularly to the women folk. Good gates, readily opened, are a good investment.

Co. ont.

(1) It is difficult to advise you satisfactorily, not knowing what other crops you grow and what system of rotation you are following. But in any case the field had better be plowed at once as shallow as possible and be kept cultivated with a broad shared entityinter, in which case you shared cultivator, in which case you will work considerable destruction to the thistles, although it is hardly pro-bable you will eradicate them. Next you can use this field for corn,

in which case you would manure it again during the winter or next spring before planting the corn. spring before planting the corn.
Should you not care to use this field for a hoe crop you may sow it again next spring with barley or oats, seeding it again with clover. Any thistles that are left may be topped off with a scythe before the grain shoots into the head, and should the clover catch be good it will keep the thistles in check until you again can got a hoe crop on the field following after the clover or timethy sod. If the field be real bad with thistles and you fear they will not be checked safficiently by the cultivation you will give between now and fall, you

will give between now and fall, you may carry the field over, work it well may carry the field over, work it went next spring, and on into early summer and then seed it to alfalfa, sowing it without a nurse crop about the last of June, should you wish to de vote this area to alfalfa. Or you

might carry it over as for the affelia and sow part of it to rape, seed the the rape early in July. We would not advise you in case to leave the field under bare low next season

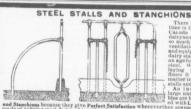
Some splendid catches of alfalfa have been reported as being obtained have been reported as being obtained from seeding in the spring on fall wheat. The alfalfa seed being expen-sive, we would not recommend that it be sown in this way except in an experimental way, there being other methods of sowing it which are more certain of giving a successful stand.

I shall be glad to have some help in this seen of the public. If they are easy matter from some one older and more than the spring of the state of the public. If they are easy to open and shut, and present an attractive appearance, an impression is fall wheat in the spring?—F. I., Halton [51] wheat in the spring?—F. I., Halton [52] have the spring?—F. I., Halton [53] have the spring?—F. I., Halton [54] have the spring?—F. portant asset. A farmer's character and standing

can be accurately judged by his fences and gates. Most of the boys who have left farm homes have passed off the parental soil through misetable sates. A stranger or hired nan using a gate that is rickety, heavy and hard to open usually yields to the temoration to leave it open.

leave it open.

Wooden gates costing a few dol-lars must be replaced every three or four years, while steel gates, capable of efficient service for much greater periods, cost but little more and last indefinitely.



EASTLAKE

and Stanchions because they give Perfect Satisfaction wherever truy made of tubular steel, fastened together firmly with malleable compared to way weakening the stalls. The stanchions will hold the stronger be so arranged that no weight of any kind rests on the animal's neck. For prices, plans, circulars, etc., write

ols, Bara Door Hangers, Cow Stalls LOUBEN MACHINERY CO., GUELPH, ONT



"Many a dollar is lost by putting off until to-morrow. Send for catalogue to-day." -The Philosopher of Metal Town.

No building material like this— "METALLIC"

is superior in every way. It is most economical-is easy and quick to lay or erect, saving expensive labor,

Steel Shingles and lasts a lifetime without continual repairs. Lightning, rain, wind or snow has no effect on "Metallic"—it is WEATHER, FIRE AND RUSTPROOF, the best material for all buildings.

Look over this list-all made from the finest quality sheet steel

EASTLAKE" METALLIC SHINGLES. On buildings for 25 years, and still in perfect condition. "ETALLIC" CEILINGS AND WALLS. A handsome, sanitary decoration—lasts a lifetime.

METALLIC" ROCK FACED SIDING. In brick or stone design for he

"MANITOBA" STEEL SIDING. The best for large

buildings, elevators, mills, storehouses, etc. CORRUGATED IRON-GALVANIZED OR PAINTED. For implement sheds or barns, fireproof and durable.

[You should read our interesting booklet "EAST-LAKE METALLIC SHINGLES" and our new

in some Write for



and our new Catalogue No. 70. A post card with your name and address will bring them to you at once.



THE 'BAKER' BACK-GEARED WIND ENGINE



Is Built for Heavy Duty. Neat and Compact in Design. Do Perfect Work, Because they are Built on Principles that are absolutely Correct, and the Easiest

are absolutely Correct, and the Easiest
Running Mill Made.

The wheel is built on a hub revolved on a long stationary steel spindle. As a result, there is less friction, and the hub will never become worn and cause the wheel to sag toward the tower.

"BAKER" wheels have large numbers of small sails, without rivets, as compared with other makes, the full nover.

"BAKER" wheels have large numbers of small sails, without rivets, as compared with other makes.

The small sails develop the full power of the wind and enable "BAKER" mill roump in the lightest breeze.

The engine is so constructed that the gate with the control of the contro All working parts are covered with a cast iron shield, thus protecting same from ice and sleet.

make a full line of Steel Towers, Gal-dized Steel Tanks, Pumps, Etc. Write for Catalogue No. 58.

THE HELLER-ALLER CO. WINDSOR

WHERE WILL YOU GO THIS SUMMER?

If you desire rest and recreation, why

"THE RIVER ST. LAWRENCE TRIP?"

criptive of the Thousand Is s. Montreal, Quebec, Murray ac, the far famed Saguenay application to any Railway

For illustrated guide, "Niagara to the Sea," send fee in postage stamps to H. Foster Chaffee, A.G.P.A., Toronto, or Thoa, Henry, Traffic Mgr., Montreal, B. & O. Navigation Co.

****************** **MORTICULTURE** MORTICULTURE

A Central Organizing Body for Cooperative Associations

Editor, Farm and Dairy, — You have requested that I should write on "The Need of Centralization of Cooperative Fruit Concerns." You will notice the difference between the heading as I have constructed it and There is a have suggested. as you have suggested. There great difference in the two ideas.

Centralization implies bringing to-gether under one head the different getner under one need the enderent cooperative fruit associations of the province with a central management and controlled by a central body. In this way, if the organization were successful a real and very powerful combine would be effected. While combine would be effected. While combines when properly managed are forceful economic weapons, they in nearly all cases abuse their powers, antagonize the people at large, invite restrictive legislation, and result in the eventual breaking up of the UNIFORM ORGANIZATION

A central organizing body implies the organizing of cooperating societies along certain uniform, constitutional lines, which makes it possible for these societies to work together as a federation of self-governing bodies where economies and other advantages are gained by so doing. Or the other hand each body of cooperators, through the constitution granted them by the central organizing body, is a complete entity and able to stand and work alone where individual intitative is advantageous and local requirements make it best to do so.

A federated body of uniform co-

operative societies (organized under a central body whose only business it is to organize individual societies and federations of them) stand in the same relation to each other as Britain's self-governing colonies, each having its own government and conrolling their own local affairs, able to work together when advantage is to be gained thereby. A centralized body of cooperative societies having one government as would be quired stands in the same relation that the countries of England, Ireland and Scotland with government from London are in to-day. There are and Sections with government run. London are in to-day. There are strong indications that federaliza-tion will take place in Great Britain and this is what is wanted in co-operative societies.

HOW FORM AN ORGANIZING BODY A central organizing body as it is worked in Ireland would proceed as

follows: It would work out a unifollows: It would work out a uni-form constitution embodying in it all the best features of the cooperative experience that the past has taught and eliminating those things that have been proven by experience to be hurtful in a cooperative society. The detail of management would be suited to local conditions, but certain essential points would be preserved throughout. Before a society was or-ganized the central association, ganized the central association, through its trained organizer, would investigate conditions and find out whether a society should be formed in the place intended and the kind of society best suited to the conditions. This would eliminate the haphazard methods now in use.

At present a number of men con-clude that a cooperative society should be formed. They know nothing about the subject and in organizing make the same mistakes that other societies have made, the most common of which are restricted shares; votes according to shares; the mixing up of the buying and selling ends of the so-cieties; no provision for reserve fund; fields of operation that are too small for profit or, on the other hand, too wide fields of operation. Certain of the cooperative societies now seem inclined to think that cooperation means the control by one organization of all of the others. This mistake would be fatal to cooperative A central organizing be would obviate such mistakes and diffi-culties.—S. E. Todd, B.S.A., Lambculties.—S. It ton Co., Ont.

Box Apple Trade

Jas. A. Findlay, Cargo Inspector, Glasgow, Scotland

The box ple trade in Glasgow is one of incr sing dimensions, and last indicates that Glasgow year's trade indicates that Glasgow offers an outlet for a large proportion of high class boxed fruit at all perihe recognized apple season, ntaining apples characterized formity of size and color, with by urrmity of size and color, with skins free from blemish and clean for the variety, fairly bold in size—but not exceedingly so nor irregular in shape so as to be deemed coarse— will return to shippers a much en-hanced price over the barrel equiva-lent. The barrel, I presume, will al. ways retain its place as the p-pullar commercial package, but very large to the commercial package of the commercial package, but very large to the commercial package of the commercial package, but they are to be commercial package, but by the scar-city of Ontario and Nova Scotia bar-rel supplies. supplies. Buyers are becoming increasingly

discriminating regarding value of ap-pearance and if Ontario orchardists are going to capture nd retain a por-tion of this high class box trade, decidedly more scientific care of or-chards and more careful selection of cidenty more executive and to do chards and more careful selection of fruit in picking is essential. I on satisfied that an increase an be aborbed hote of the selection of the

There is often too much cultivation in the orchard in July and August, and the soluble plant food in the soil is set free and wasted. Do not leave the land without some cover crop. Have something growing when possible, and then, to save the plant food as far as possible, plow under this crop.—W. C. McCalla, Lincoln Co.,

It pays to advertize. Try It.

APICULTURE

A Successful Bee Man

A bee-keeper who has made a see as of his business and believes that cess or his business and believes that a good living can be made out of bees is Mr. W. A. Smith of Northumberland Co., Ont. Mr. Smith bas a very small place, but his bee-yard, in which are 75 hives, mostly eight frame langstroth, yields him a good income and many of the luxuries of life as well. (One of the editors of life as well. (One of the editors of Farm and Dairy, who called on Mr. Smith recently, learned that he has lately purchased an automobile.)

One of Mr. Smith's colonies in 1910

One of Mr. Smith's colonies in 1910 stored 452 lbs. of extracted honey. Mr. Smith gave this colony every chance and kept adding supers until he had eight full sized supers on the hive, and it was necessary Mr. Smith does not deal in comb honey. "You can get," said he, "two pounds of extracted honey to one



An Artistic Home for Bees

A noticeable feature of the apiary of M. A. Smith, of Northumberland Co., double hive here illustrated used for hive for the control of the c

pound of comb, and the foundation and setting are sold along with the

FROM SMALL BEGINNINGS It is 14 years since Mr. Smith startd to keep bees in a commercial At first he had only five or six hives A few seasons ago there were 17 colonies in the apiary, but foul brood got in, and 144 colonies were lost. Last year from 75 colonies Mr. Smith estimates that he had a clear profit of \$500

An extractor, run by a gasoline en-gine, is owned in a cooperative way by Mr. Smith and two other neighboring bee-keepers

"It does not take us nearly all Tit does not take us hearly all ottime to look after the bees," said Mr. Smith. "My wife helps me with the swarms, and in the whole year I do not believe that there are more than 36 days of steady work. It is, however, work that requires attention at the proper time, and it is not well for a bee keeper who is into bees as a commercial proposition to have other work that he must be at a certain number of hours each day."

I believe there is more money in bees than in most other departments of the farm.-W. J. Telford, Peterboro Co., Ont.

There is nothing to equal sugared syrup for winter feeding bees. Al. clover honey is just as good if you can get it, but buckwheat honey is not in it.—W. A. Smith, Northumberland it.—W. A. Smith, Northumberland ********* POULT

..... Increase Por There is an ir

August 10,

that loors up big which are as impron are often pas ow it too in t farms. such as ho raising, etc., recei preference to who try. A loss of 50 ease is not looke eat importance, will claim our first will put forth our her recover; 50 hens, w Yet 50 hens, yield a larger pr We farmers, some to think so, and t falling off in the su Indeed, the ezes. has become has Canada given but does not produ ply the home mar It is pos products of eggs an the other branches keeps poul and if the same at

Summer Egg Prof. C. E. Brow Minne

using, feeding

poultry as is given of farming there we

story to tell.

Ordinarily hens I per cent. of eggs i soon as the warm come—the latter p into June—egg prodrop off until it is thing for birds to be than 35 to 40 per cent. than 35 to 40 per month of July and and off from that through to as high as 50 per

The man who sec egg production last edge, was a man whe the basement of a saying anything to keeping of hens in but it was th existed in this par that had such a pot the high production This particular barn southern slope of a ra hill. The north wa with farm drainage face of the basement with a number of There was a large do end through which the out freely, and the 300 barn had access to t

COOLNESS THE The peculiar thing ras that they did no much use of the run. the cool shade and f basement to the sun If one went into the asement on a hot su could find it quite of ally all the birds the

FOR SALE AND WANT WO CENTS A WORD CA

HARDWOOD ASHES—Be

FOR SALE—Iron Pipe, Rails, Chain Wire Feneto, all sizes, very che stating what you want Waste and Metal Co., I street, Montreal.

WESTERN LAND FOR SALE

In areas to suit purchasers, from 160 acres upwards, situated on or near railways in the Best Wheat, Oat and Stock Growing Districts of

SASKATCHEWAN AND ALBERTA

250,000 Acres to choose from

Prices low. Terms generous and helpful. Special inducements given actual settlers, and those requiring blocks for colonization purposes.

Write for particulars. Reliable agents wanted in every county.

F. W. HODSON, & CO., TORONTO, ONT.

Room 100 Temple Building

Branch Office:-North Battleford, Sask, During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.

************** POULTRY YARD ร็งของจอกของของของของของของ

Increas Poultry Products

There is an inherent tendency in mankind to go out after the things that loom up big in the mind's eye. In doing this the more trivial things as important in the long ten passed by. We farmers which are which are as important in the long run are often passed by. We farmers show it too in the conduct of our farms. The bigger things in agricul-ture, such as horse raising, cattle ture, such as norse raising, etc., receive our ratention in preference to what are usually considered small side lines such as poultry. A loss of 50 hens by some disease is not looked upon as of very great importance, while a sick cow will claim our first attention, and we will unif orth our very baye efforts. will put forth our very best efforts to secure her recovery.

Yet 50 hens, well cared for, will we farmers, somehow, do not seem to think so, and the result is a large to think so, and the result is a large falling off in the supply of poultry and eggs. Indeed, the situation in busi-ness has become acute. Not only has Canada given up exporting eggs, but does not produce enough to sup-ply the home market. This should It is possible to treble the not be. It is possible to treble the products of eggs and poultry without in any way lessening the output from the other branches of the farm. Every farmer keeps poultry of some kind, and if the same attention were given and if the same attention were given to housing, feeding and caring for the poultry as is given to other branches of farming there would be a different story to tell.

Summer Egg Production

Prof. C. E. Brown, University of

Prof. C. E. Brown, University of Minnesota Ordinarily hens lay from 50 to 75 per cent. of eggs in the spring. As son as the warm weather begins to come—the latter part of May and into Junn—egg production begins to drop of until it is not an uncommon drop of until it is not an uncommon more than 35 to 4th orders. Hrough the month of Jely and the production of from that through August Falling off from the production of t

The man who secured the greatest egg production last year, to my knowdge, was a man who kept his hens in the basement of a barn. I am not saving anything to recommend the saying anything to recommend the keeping of hens in the basement of but it was the conditions that existed in this particular existed in this particular basement that had such a potent influence on the high production that was secured. This particular barn was built on the southern slope of a rather steep, sandy southern stope of a rather secondary, bill. The north wall was set deep in the face of the hill and well drained with farm drainage tile; the south face of the basement was well lighted lace of the basement was well lighted with a number of large windows. There was a large door on the north end through which the birds could run out freely, and the 300 of them in the barn had access to this run.

COOLNESS THE FACTOR.

The peculiar thing about those hens was that they did not seem to make much use of the run. They preferred the cool shade and fresh air of the the cool snade and fresh and basement to the sunshine outdoors. If one went into that well lighted ment on a hot summer day they rould find it quite cool and practi-ally all the birds there busily en-

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER HARDWOOD ASHES—Best fertilizer in nac.—George Stevens, Peterboro, Ont.

FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Chain Wire Fencing, Iron Poets, etc., all sizes, very cheap. Send for list, stating what you want. The Imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal.

gaged in scratching the litter; similar to what one would find in a laying house in the winter time.

nouse in the winter time.

The most peculiar thing of it all was that these birds began to moit in July, they moited gradually, and when the writer last saw those birds in September, they were practically in new feathers and were laying alliencest 40 per cent at the time when most 40 per cent. at the time when the majority of hens had ceased.

All poultrymen cannot have conditions such as these, but they can keep their poultry houses well cleaned out and ventilated, and can provide their politry nouses well cleaned out and ventilated, and can provide ample shade for their birds in the yards by the use of shade trees, pre-ferably fruit trees, or by growing corn ferally fruit trees, or by growing corn fodder, or planting artichokes, as-paragus, or berry bushes. Those are the conditions that will assist mate-rially in keeping up the egg produc-tion throughout the summer.

To Prevent White Diarrhoea

The large mortality among young chickens due to the ravages of white chickens due to the lavages of white diarrhea can be decreased if proper precautions are taken. The following preventative measures are recomnended in a recent United States bul-

From the time the chicks begin to hatch until they are removed to the brooder, the incubator should be kept hatch until they are removed to be kept brooder, the incubator should be kept dark. This will largely prevent the chicks from picking at the droppings. Since infected chicks make unsatisfactory development for the first few weeks, and may later regain vigor and make fair growth, it is advisable to select at an early age those intended for breeding purposes. The selection may be made when the chick-selection may be made and the chick-selection

reserving only those which show great-est vigor and development. Incubators, brooders and all other

appliances used in the hatching and rearing of the chicks should be cleaned and disinfected frequently. Food and water should be supplied in such a manner as to prevent con-tamination with infected droppings.

In such a manner as to prevent con-tamination with infected droppings. The use of fine absorptive litter in the brooder, especially for the first few days, is also advisable.

The feeding of sour milk may prove very effective as a preventive measure. The milk must be fed early, or during the infection stage. After the white diarrhea organism has once entered the general circulation, such treatment is of little or no value. Hence, sour milk should not be looked upon as a cure, but merely as a possible preventive agent

sible preventive agent.

Since perfect physical condition is, as a rule, a barrier to disease, it is important that the health and vigor of the breeding stock and chicks be raised and constantly preserved.

Proper methods of housing, feeding, insubation. Localing and management. incubation, trooding and management should therefore be employed.

Poultry Pointers

It is too late to be setting eggs. For this reason it is well to take the male birds out into a pen by them-

Throw open the windows night, but tack some windows every night, but tack some wide meshed cloth or screen of some kind over them to keep out things that have no busi ness in the house

Sort the young growing stock as to size, it will give them all an equal chance and you will find they will grow better and less trouble will be experienced.

When there are two pens of fewls when there are two pens of fewis in the same house, separated by a partition, the drink dish may be set in the partition so that fowls may drink from both sides. It should rest on a shelf so that it may be easily removed for cleaning and disinfect-ing. Mr. John McKee Makes Reply OK Canadian Two Horse (Concluded from page 2)

(Concluded from page 2)
Ayrshires. I would consider that a 2.
year-old heifer yielding upwards of
butter-fat was a pretty creditable
record. I notice in report No. 2 of
the Canadian Record of Performance
that at that time 29 Holstein 2-yearold heifers had candified in the Re. old heifers had qualified in the Re-cord, and only one of them had surcord, and only one of them had sur-passed the Ayshire record. Most people, I think, would consider 521 bes, of butter-fat a very fair record for a 3-year-old heifer. In this same report I see that only one Holstein had beaten it. I only mention these figures to show that if Ayrshires are making "tiny tests" then a great many Holsteins make still timer ones. ABOUT "KNOCKERS."

ABOUT "KNOCKERS."
It is rather amusing to see the
Messrs. Flatt calling down your
humble sorvant and a few others for
"knocking" the Holsen as they call
it, and then proceed the services to
knock the Ayrshires. My control to
knock the Ayrshires. My control
lication when written, but I had
word would be a musting from an lication when written, but I had merely replied to a question from an editor of Farm and Dairy regarding my observation of rations fed to different breeds in the Winter Fair Dairy Tests.

In conclusion, Mr. Editor, the gratuitous advice contained in the poetry was altogether unnecessary, for Ayrshire men the whole country for Ayrshire men the whole country over are wearing the smile that won'; come off these days. I believe no class of breeders are so little given to blow-ing about their own breed and to knocking rival breeds as are Ayrshire companies. The Ayrshire cow has won brown position she eccupies to-day to the companies of the control of Per-formance. You'ly Tests are demon-strating to the control of the control of the control of the strating to the control of the control o formance Yearly Tests are demonstrating to the world that we have in our "Ayrshire bossie" not only one of the most beautiful breeds in existence, of the John McKee, Oxford Co., Ont.

Renew your Subscription now.



(9)

Will dig your crop with your own horses Write for our 1911 Catalog of Pri-

CANADIAN POTATO MACHINERY CO. LTD. 127 Stone Road, Galt, Ont.



The rope is so arranged that by unsnapping it from the top section the ladder can be separat-to form two single ladders.

The hooks automatic-ally lock at every round and unlock between and unlock the rounds.

These ladders are strong, light, easily operated, durable, and convenient, a necessity around the house and farm build

Write us to-day for Catalogue H for full description and price

THE STRATFORD MFG. CO. LIMITED STRATFORD, ONT. We make all kinds of Ladders, Lawn and Porch Swings and Seats.

Broilers and Spring Ducklings

HENRY GATEHOUSE 348-350 WEST DORCHESTER ST., MONTREAL

We are open to buy Spring Broilers, all sizes, small and large, from 11b. up, and Spring Ducklings, and will pay highest cash prices according to size and quality. Prompt returns.

ELM GROVE POULTRY FARM

FOR SALE-Good Cockerels. Single Comb Binck Minoreas, S. C. White Leg-horns, Rose Comb Brown Leg horns and Rouen Ducks, Long Distance Phone.

J. H. RUTHERFORD

Caledon East, Ont.

Strength and Service

That's what you get in Peerless Gates—the strength and service that keep them swinging evenly on their hinges year after year. They won't warp or sag because the frames are made of heavy, steel tubing, electrically welded into one solid piece,

Peerless Farm and Gates



We manufacture lawn, poultry and farm fences and gates. We build them so they will last long and give the most satisfactory service. Our standard of quality is high, and we stick to it firmly. You can always depend on Peerless goods. Write for full particulars,

THE BANWELL HOXIE WIRE FENCE CO., LTD.

(10)FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.



FARM AND DAIRY is published every huraday. It is the official organ of the fritish Columbia, Manitoba, Eastern and festern Ontario, and Bedford District, uebec, Dairymen's Associations, and of the Canadian Holstein, Ayrehire, and Jer-yo Cattle Breeders' Associations.

2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.26 a year. For all countries, except Canada and Great Britain, add 50e for postage. A year's subscription free for a club of two new subscribers.

3 REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.0. On all checks add 20 cents for exchange fee required at the banks.

4. CHANGE OF ADDRESS.—When, a change of address is ordered, both the old and new addresses must be given

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEME

The paid subscriptions to Farm and airy exceeds 8,800. The actual circulation l'arry execcia 5,506. The actual circulation of each issue, including copies of the office of the company of the circulation of the company of the circulation of the company of the circulation of the paper, showing its distribution by countries and provinces, will be mailed free on request.

OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY
We want the reders of harm and Dairy
to fee that we want and the reder of the reder to the state of any unani one week from the date of any unsatisfactory transaction. with proofs thereof, and within one month from the date that the advertisement appears, in order to take advantage or the guarantee. We do not undertake to adjust trifling differences between readers and responsible advertisers.

FARM AND DAIRY PETERBORO. ONT.

OUR STAND ON RECIPROCITY

For years leaders of the farmers and the agricultural press, have been telling us farmers that we should unite in securing recognition of our rights from the government and in the advancement of the interests of agriculture. At election times, however, we have invariably failed to follow this advice, and have divided on pasty lines. Farm papers that unge us to take independent action and then remain silent at election times, but prove their own inconsistency. We believe that the agricultural press should support the stand taken by the farmers' organizations in so far as their stand is in the best interests of agriculture, even when that stand is not in accordance with the stand of one or the other of the great political par-

We believe the reciprocity question to be the greatest issue pertaining to the interests of the farmers that has ever been before the country. It is the issue above all others on which we should stand together because it affects us primarily. It is an issue which every farmers' organization that has been heard from, has endorsed. The only farmers we know who are opposing it are those who are reading the straight party press, and who have never taken any part in an open discussion of the question at any farmers' meeting.

The farmers' organizations which so far have expressed themselves in favor of reciprocity, include: The Dominion Grange, The Nova Scotta Fruit Growers' Association, The Eastern Ontario Dairymen's Association, The Grain Growers' Associations of Manitoba and Saskatchewan, and The United Farmers of Alberta. We have yet to hear of a farmers' organization with the exception of a small truit growers' association, representing special interests in British Columbia, which has taken a stand on the other side. Farm and Dairy in supporting reciprocity is, therefore, but voicing the sentiment of Canadian farmers as expressed by practically all the leading farmers organizations of the Dominion.

In endorsing the stand of the united farmers on this question, Farm and Dairy does not wish it to be understood that it is thoroughly satisfied with the action of the Dominion Government. We feel that the Government should have gone further in reducing the preference on goods imported from Great Britain, as was asked by the farmers' deputation at Ottawa last December. We feel that the expenditures on militia and defence are out of all right proportion to the expenditures on agriculture. We feel that the government might have made greater reductions in the tariff on such manufactured articles as agricultural implements, spraying machinery, mixed fertilizers, and cement also, as was requested by the farmers.

The Government, however, has taken a great step towards placing agriculture on an equal footing with other industries. It is offering to do more for the farmers in the matter of freer trade than the Conservative party is prepared to do. The opening up of the United States market to Canadian farm produce will be of incalculable benefit to us. Consumption in the United States is rapidly overtaking production, and as the years go by the United States market will become more and more valuable to Canadian farmers. In Canada, with the opening up of the vast agricultural regions of New Ontario and the Canadian west, the demand for wider markets for our farm produce will become ever more insistent. With our large exportable surplus of farm produce we should supply the growing demand in the United States for tarm produce from outside sources.

Farmers who are lining up in opposition to free trade proposals will

source they are gathering their information, whether it can be relied on to give them both sides of the case, and why they are taking a stand in direct opposition to what has been requested by all the farmers' organizations in Canada.

OFFICIAL TESTS

On this page in our last issue we published a clipping from Farm and Home, in which the following statement appeared:

"The seven-day test is not of "great value to practical dairymen, "who consider that it is no indica-"tion of either the profit or produc-"tion that may be expected in a year. Holstein breeders are now "the only ones to use the short "test, and as it is made under offic-"ial supervision of the experiment "stations it is reliable so far as it "goes. But the cows are forced to "such abnormal production, both "in total milk yield and per cent. "of butter fat that seldom is their "record maintained in a 30-day "test. The week's test is all right, "but it is about as accurate in test-"ing the year's yield as would a "three-furlong spurt to tell how far "a horse could travel in a day."

The foregoing remarks do not do justice to this excellent test. seven and thirty day tests are the most reliable and accurate tests of any kind that are made to-day. They are supervised at every milking by officials appointed by the government or dairy schools. These officials weigh and test every milking, and thus the tests are as accurate as they can well be made. This cannot be said of any other system of test now in use.

The statement that the cows are forced to such abnormal production in the seven day tests that their records are seldom maintained in a thirty days' test, is hardly borne out hy facts. It not unfrequently happens that the total production for the thirty days is larger in proportion than for the first seven days. Cows holding the seven day records often hold the thirty day record also.

The Holstein men were the first to recognize that production is of more importance than show yard form, and to adopt an official test. Their seven day test is not only the first official test adopted by any breeders' association, but it is still the only strictly official test that is made of dairy cows. While there is truth in the statement that the seven day test immediately after freshening is not a true indication of either the profit or production that may be expected in a year, still the Holstein Association has not failed to recognize this fact, and has adopted the seven an i thirty day official test eight months after calving for those who prefer it. This latter test offers probably the most accurate official test that can be obtained of a cow's possibilities as a persistent producer. Only a few breeders-these, as far as we know, being located across the border-have resorted as yet to unjustifiable methods to increase the milk and butter production of their cows in seven day

as the article in question shows, there is a tendency to discount some o these tests because of what these fev men have done. For this reason we feel that the Holstein breeders will be acting wisely if they devote more attention to tests made eight month after calving. Were a number of breeders to do this and to draw attention to the fact that their tests were so made they would soon reach the rewards of their foresight and enterprise.

It is hardly in order for any paper or organization to endeavor to cast discredit on the best official test that has yet been invented without offering something better in its place. This has not yet been attempted, as it is generally recognized that the expense involved in a yearly official test makes it impracticable. The seven day official tests have done more to advance the interests of dairy cattle than any other one factor, and they deserve to be encouraged, especially those made eight months after calving.

MUST WE PLOW DEEPER

There is an opinion amongst many of us farmers, and it has found widespread belief, that it is the proper thing to plow shallow rather than deep. Undue pressure of work and a general shortage of labor have contributed to the ready acceptance and practice of shallow plowing. Then, too, the erroneous notion has gotten abroad that the sub-soil is deficient in fertility and some of us believe that if we plow deep and bring the sub-soil to the top we will get a poorer crop for some time.

Years of plowing of from four to six inches deep is having the untoward effect of decreasing yields. The land dries out more quickly than it formerly did when it was the common practice to plow more deeply, and the shallow plowed land is more quickly adversely affected by drought.

Where shallow plowing has been advocated it has been also advanced that it be followed by deep cultivation. When the soil has been plowed, however, the necessity for the deep cultivation is overlooked, and the consequence is a shallow root zone and a compact soil not capable of holding and retaining a maximum of soil moisture, which is so necessary for plant growth.

On our experimental farms greater attention than was the case some years ago is being given to the plow. ing and they are "going it" deep. Mr. John Fixter, Farm Superintendent of Macdonald College, as many Farm and Dairy readers know, is a strong advocate of very deep plowing, and the results he secures demonstrate his contentions to be well founded.

Evidence is continually cropping up that it will pay to plow deep, and it appears that we are about to ester another period when deep plos ing shall be the general practice Farm and Dairy readers will recall the illus tration of a deep plowing implement published in our Special Farm Machinery Number, June 1st. One of these implements was made use last spring on the farm worled b do well to ask themselves from what tests immediately after calving. Still, Hoard's Dairyman. Writing diter-

ally of heir exp Dairyman," t Last spring v Deep weighs lling m by tw 24-inch disk cuts ward epth and ing the sired hree-fou of corn ground balance of the the fall before about six inches never before se bottom soil was the unde layers, the unde

> So far we are the deep plowed the best. The growth and muc It has stood much the best, is no evidence o crop whatever. in the determin our arable land inches deep, and Farm and Dair

publication the e

ers on this impor

gether in a m This land was a ensilage corn w

field.

plowing. Have y to plow to a gre or six inches?

"ADVERTISING The time has tario Government much more vigore icy in connection of New Ontario tl taken. This is th ment. Within to have seventy-five hundred thousand the clay belt. I plished if the Ont; handle the situati capable manner

for. The strong

should have char Settlers from th well as farmers i thinking of going to discover that th west are about ex land there now on price for it. If fr settlers are forced settled sections, res where the expense great as to involve itself. The lack of great drawback as and the need for stating this we as facts, and have no our great west.

In New Ontario more favorable. I Northern Ontario Transcontinental R traverse it from er ing completion. Sl of the Canadian I which will pass th best sections, will 1 Thus, the clay bel ally of heir experience recently in the the benefit of two transcontinental "Dairyman," the editors say:

Last spring we determined to know Last apring we determined to know something practically on this subject, so we unrehased one of the Spalding Deep Illing machines. This machine weight 1300 lbs.; the plowing is done by the 24-inel steel disks. The formation of the steel disks. The formation of the steel disks are supported by the steel disks and the steel disks. The formation of the steel disks are supported by the disks are supported by the steel disks. We determined to plow about three-fourths of a 12-acre piece. about three-fourths of a 12-acre piece of corn ground 12 inches deep. The balance of the piece had been plowed about six inches deep. The big plow was easily drawn by three good horses. At the outset, we saw what we had never before seen, our land really and thoroughly plowed. The top and bottom soil was not laid in separate layers, the under soil on top, but the whole depth was sliced and mixed to-

So far we are forced to admit that the deep plowed portion is showing the best. The corn is of a stronger the best. The corn is of a stronger growth and much the deepest in color. It has stood the dry, hot weather much the best, we think, and there is no evidence of any setback to the crop whatever. This encourages us in the determination to plow all of our arable land, once at least, 12 inches deep, and that as soon as practicable.

Farm and Dairy would welcome for publication the experience of its readers on this important question of deep plowing. Have you found it advisable to plow to a greater depth than five or six inches?

"ADVERTISING NEW ONTARIO"

The time has come when the Ontario Government should launch a much more vigorous immigration policy in connection with the settlement of New Ontario than it has yet undertaken. This is the psychological moment. Within ten years we should have seventy-five thousand to one hundred thousand farmers settled in the clay belt. This can be accomplished if the Ontario Government will handle the situation in the energetic, capable manner that conditions call for. The strongest men procurable should have charge of this work.

Settlers from the United States, as well as farmers in Ontario who are thinking of going west, are beginning to discover that the free lands of the west are about exhausted. To obtain land there now one has to pay a stiff price for it. If free land is required, settlers are forced to go into sparsely settled sections, remote from railroads, where the expense of locating is so great as to involve a heavy burden in itself. The lack of timber is also a great drawback as the country is cold and the need for fuel is great. In stating this we are simply telling facts, and have no desire to disparage our great west.

In New Ontario the conditions are more favorable. This section is now entered by the Temiskaming and Transcontinental Railway, which will traverse it from end to end, is nearing completion. Shortly the new line of the Canadian Northern Railwad, which will pass through many of its best sections, will be well under way. Thus, the clay belt will shortly have

lines, as well as of numerous branch lines running north and south.

The country is well watered, which cannot be said for large sections of the west. It is well timbered, the timber about offsetting the cost of clearing the land. It has excellent markets near at hand, in the mining and railway camps, and in the cities of old Ontario. It has land equal to the best that can be obtained anywhere, and most of it is not as far north as Winnipeg. An Experimental Farm has been located in New Ontario, which will prove of great value to settlers in advising them in regard to the production of crops.

Some fifteen years ago but sittle whole depth was siteed and mixed to-gether in a most satisfactory way, This land was fitted and planted to easilage corn with the rest of the ernment at that time. Through the publication of extensive advertisements in British and United States publications reaching the farming classes, as well as in home papers, turned the tide of immigration into the west. This tide has grown year by year.

Owing to the conditions now existing in the west, much of this flow cf immigration might readily be diverted into New Ontario. The Government should seize this opportunity to advertise the advantages of this great section of country. Ontario farmers who are thinking of going west should be urged to go north instead. Agencies should be started in the States to attract immigration. This policy has proved successful in the case of the west.

The Ontario Government has already done considerable work of this character, but much more remains to be done. If the Immigration Department is without the necessary funds, these should be provided at the next session of the Legislature. When the public sees that the Government of Ontario has enough confidence in the advantages of New Ontario to be willing to spend considerable money making them public, then people will be willing to visit and locate in the north country, but not before.

A recent official inquiry addressed to 600 Missouri farmers' wives brought from 53 per cent. of those who answered, the reply that the cause of their dissatisfaction with farm life is that they have no running water in the house. It is no small matter to carry water from a distant pump a dozen times a day.

Introspection

Introspection

Get the habit. Emerson tells us that "man is a bundle of habits." And there is, perhaps, no habit so prolific of results as the habit of introspection. What kind of a proposition are you working? What are the profits? What service are you rendering the community and to humanity? What is the prime motive at the better of your very what is the prime motive at the better of your very ing for nothing higher?

The quiet hour of introspection at the close of each day's laber is a wonderful help in clarifying the vision and preparing the way for the next day's duties.



CREAM

If you want the highest price for your butter fat, use

The De Laval CREAM SEPARATOR

and you'll get it

98% of the PROFESSIONAL buttermakers use the DE LAVAL SEPARATOR Agents Everywhere

THE DE LAVAL SEPARATOR CO.

173-177 Williams St. MONTREAL

WINNIPEG

VANCOUVER

Boys! GIRLS!

You can be independent, earn money, win a pure-bred pig, a bull calf, or other pure-bred live stock, and many other valuable premiums, or, if you wish it—CASH.

HERE IS THE PROPOSITION

Don't ask father for every cent you want. You can earn many of the things you would like to have, and money, too, by helping us to get new subscribers to Farm and Dairy.

YOU CAN TAKE PART

We want new subscribers to Farm and Dairy. You can help us get them. We will help you get them. That means we will work together.

There are a good many of your best friends and neighbors— FARMERS, who live near you, who do not take Farm and Dairy. The would take Farm and Dairy if they knew about our paper and actually understood what a Great Big Dollar's Worth Farm and Dairy would be to them for a year.

Send us the names of two, three, four or five of the very best farmers you know who do not now take Farm and Dairy.

We will send them sample copies of Farm and Dairy, and write them each a personal letter telling them that your father takes Farm and Dairy, and asking them if they will subscribe, and to hand you their subscription of \$1.00, or that you will call for it.

This will be easy for you. One new subscriber will entitle you to a splendid Fountain Pen, nine will earn you a pure-bred Pig, 26 an Ayrshire Calf. Get us four new subscribers—all must be taken at only \$1.00 a year—and we will give you \$2.00 CASH.

Will you try? Sure you will. Get paper and ink, and write us now, sending us the names. Do it right now, and we will do our part.

FARM AND DAIRY PETERBOROUGH, ONT.

Be up-to-date and progressive. You need the latest books in your line. We can supply you. Write us to-day for catalog and prices and then give us your order.

BOOK DEPARTMENT

Farm and Dairy

PETERBOROUGH, ONT.

AUGUST 31st

FOURTH ANNUAL

EXHIBITION NUMBER . . OF . .

FARM AND DAIRY

A Good Number for Advertisers and Readers

"Better than ever," is the motto before us in preparing for the Fourth Annual Exhibition Number of Farm and Dairy to be issued August 31st.

August 31st.
That means that we are going to give our readers extra value this year, since past Exhibition Numbers as well as other Special Magazine Numbers of Farm and Dairy, have been popular with our read-

ers. "I would like to express my apprecia-tion of the splendid number of Farm special properties of the special properties." You are giving us farmers each week the greatest value for our money that a good word for it whenever I have the opportunity—John B. Stuart, the opportunity—John B. Stuart, The above is one of many such

The above is one of many such expressions of appreciation that Farm and Dairy. The Exhibition Number of 1911 will contain live, up-to-date information in every department—just what our readers desire and are looking for.

OUR READERS will eagerly look forward to this number and will tell their friends about it. As will tell their friends about it. As a result the CIRCULATION will be largely increased over our regular issue. Many copies will be distributed at the several large fall fairs and exhibitions in Eastern Canada to those who are seeking information it will contain

OUR ADVERTISERS, knowing from experience the value of former exhibition numbers, will use large exhibition numbers, will use large space in this one. Advertisers who have not yet used Farm and Dairy will find this issue a good one in which to begin their fall campaign. No advertisers who want the most up-to-date, progressive farmers and dairymen of Eastern Canada of their goods and at what exhibitions they can be seen, can afford to miss this number.

Further information may be had on application to

ADVERTISING DEPARTMENT FARM AND DAIRY

PETEBORO - CNTARIO

Creamery Department

Butter makers are invited to send con-tributions to this department, to ask ques-tions on matters relating to butter making and to suggest subjects for discussion. Address letters to Cremery Department. Butter makers are invited to send con-tributions to this department, to ask ques-tions on matters relating to butter making and to suggest subjects for discussion. A ddress lettlers to Cre mery Department.

Side Lines for Creameries*

Prof. H. H. Dean. O.A.C., Guelph. Profitable "side-lines" for the Profitable "side-lines" for the creamery man are eggs and ice-cream, to say nothing of buttermilk, the sweet cream trade, casein, hogs and other lines of profit. The collecting of eggs fresh from the farm two or three times a week

by the cream drawers ought to prove a profitable "side-line" for creamery-We seem unable to supply our men. We seem unable to supply our home market for clean fresh eggs. The eggs are fresh on the farm, but we do not seem to be able to evolve a proper system of marketing. The cooperative egg circles are a step in the right direction, but in connection the right direction, but in connection with our creameries, we have all the machinery needed for collecting and distributing eggs. Who will give it a trial in Ontario? During the hot weather Canadians seem to have developed a mania for seem to have developed a mania for many fundation.

eating ice-cream. In many fashion-able hotels ice-cream is on the bill of fare all the year. With modern machinery, ice-cream manufacture can very well be made a part of the creamery business, especially where the creamery is located in, or near a town or city. The local demand for town or city. The local demand for ice-cream will frequently pay all the running expenses of the creamery in hot weather. This is no inconsiderable sum in many creameries, and is worthy the careful attention of those studying economy in creamery management

The value of Luttermilk as a healthful, wholesome drink is not sufficiently realized. That there is a pronounced temperance wave sweeping over On-tario all will admit. What shall take the place of the accustomed drinks? Nothing is better than good, whole-Nothing is occue at furnishes the some buttermilk. It furnishes the some accustomed stimulant in the form of lactic and carbonic acids; at the same lactic and carbonic acids; at the same lactic acids; at the same time the consumer takes a valuable aid to digestion.

U.S. Opinion of Cream Grading Gust. Holt, Vergas, Minn.

Quite a few of our leading cream-eries have realized that it is just as wrong to pay the same price for a poor can of cream as for a can conpoor can or cream as for a can containing first-class cream as it would be for our elevator men to pay the same price for Nos. 2 and 3 wheat as for No. 1. Paying for cream accordsame price for Nos. 2 and 3 wheat as for No. 1. Paying for cream accord-ing to its quality is something that ought to interest every creamery poor cream, which is always in the way of the creameries turning out a first-class product that obtains the highest possible price.

A creamery can well afford to pay A creamery can well afford to pay two cents a pound more for nice sweet cream than for the sour, stale dope that it often gets, and if one farmer would sell his cream and get a higher would sell his cream and get a higher price you may be sure his neighbor would not like to get less for his cream, and he would surely make up his mind to bring cream that would grade No. 1, and in abort while there would be nothing but sweet cream coming in cream coming in.

If the butter-maker knew his busi-ness he could turn out butter that would bring two and three cents more per pound with such cream. stop and figure out how much those two and three cents would amount to in one year in a creamery that makes say 75,000 pounds of butter, And it's only the smallest creameries *Extract from an address before the W. O. D. A. Convention at Stratford.

Friends and patrons of the farmers cooperative creameries should adopt this plan, and the sooner the better. It has worked well in our creamery. The Refrigeration of Butter

that make that much each year.

J. A. Ruddick, Dom. Dairy Commissioner

Refrigeration is probably more use Refrigeration is promoted here the full to the buttermaking industry than it is to any industry pertaining to other food products. It is also highly essential in the practice of the art. The principal buttermaking countries of the world are in the partiests because of the world are in the partiests because in the parties of the world are in the partiests because in the parties of the world are in the partiests. The principal duttermaking countries of the world are in the northern hem-sphere and the periods of production are more or less intermittent, owing to the fact that summer season is more favorable for production than are the favorable for production than are the winter months. It follows, therefore, that there is a large surplus of pro-duction over consumption at certain periods of the year which must be held in reserve to supply the shortage and they produce. Before the days of at other periods. Before the days of refrigeration, the consumption of but-ter during the off-season was very much curtailed, owing to the fact that it was difficult to secure supplies in condition.

With efficient refrigeration available With efficient retrigeration available for storing the surplus product during the summer months, consumers can new obtain their requirements in practically as good condition during the winter months as at any other time of the year. This has resulted in an enormous increase in the consumption of butter all over the world, because we butter all over the world, because we spread it thicker when the quality is good, and the business of dairying has grown and developed to an extent which would not have been possible without the aid thus rendered by refrigeration.

LOW TEMPERATURE FOR BUTTER LOW TEMPERATURE FOR BUTTER.
Butter is an unstable product. It is
at its best when freshly made, and
its fine quality will last only a few
days at ordinary temperatures in the
summer months. As the temperature days at ordinary temperatures in the summer months. As the temperature is reduced, the changes which take place in the butter to bring about ranedity and other undesrable fla-vors proceed more slowly so that the "ago" of butter is determined by the temperature at which it is kept rather than by the number of days or weekthan by the number of days or weeks than by the number of days or weeks which may have elapsed since it was made. At one time it was thought to be undesirable to keep butter below the freezing point of water under any circumstances, but gradually, in the light of experience, the storage tem-perature of butter, the storage temperature of butter has been reduced, until at the present time we have it being held as low as zero F.

Experiments and investigations have shown that butter eventually changes perceptibly under any storage temperature that has so far been tried, and that the effect of storing at different temperatures is only a matter of degree and not of absolute steppage of all change in any case.

The cold storage manager, in determining the temperature at which butter is to be stored with an eye to economy and good results, must consider two things. First, how cld the butter is and at what temperature it has been held previous to being offered for storage, and secondly, how long it is to be stored before it will go into consumption. A point worth noting in the storage of butter is that heavily salted butter does not keep as well as butter which is lightly salted. The difference has been attributed to the difference has been attributed to the fact that it will require a lower tem-perature to freeze the highly salted butter, but experiments at variable temperatures much below the freezing point of the butter, show a slight ad-vantage in the lightly salted butter.

The executive committee of the National Creamery Buttermakers' Association has voted unanimously to accept the proposition of the National Dairy Show Association, and the next convention will be held in Chicago November 1st, 2nd and 3rd. FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

WANTED-By the first of Sept earlier, a first class Butter earlier, a first class Butter Mai-take full charge of a creamery nea-don, Ontario. Apply. giving refer to W. B. Dinwoodie, Arva, Ontari



Woodward Water Basins

Will increase the flow of milk from your cows and at the same time keep them healthier. The water is always uniform in temperature. There is no swilling of cold water once a day and a ant checking of the natural flow of milk

They are not expensive to install, and the extra profit will pay for it in a very

end your name and address to-day for a copy of our free Catalogue.

ONTARIO WIND ENGINE & PUMP CO. TORONTO

FACTORY MANAGER WANTED

To use the best and cheapest To use the best and cheapest preparation for all cleaning purp-oses in Cheese Factories and Creameries. Used at Dairy School Guelph and by the leading factory. men of Western Ont.

Write for prices to

R. A.TRELEAVEN MOOREFIELD, - - ONT



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

Any Series and Control of the Contro

to earn homestead patent) and cultimate fifty acres extra. Who has schunded his bounded and the school of the scho

W. W. CORY.

Deputy of the Minister of the Interior. N.B.—Unauthorized publication of this dvertisement will not be paid for.

August 10, 19 *******

Cheese De

*********** A Successful I Connolly Bros., O At the request of herewith outline king cheese. Ou



starter nson. It is put in orning before the m . We use from for starter to 1,000 lbs 000 lbs. or so of r wat we start heat owly until the milk erature of 86 degree ake a rennet test th a dram of thickens in 17 sec ilk using encugh agulation in 12 min

CUTTING THE As soon as the curd t it, using the w once with the h nds for 10 minutes andually until it read re of 98 degrees F. minutes.

We use the hot iron e when conditions e the curd from th ce of curd strings warter to three-eigh the hot iron we ru

dip the curds Curds are stir let stand 10 minute piled up six inche ed to mat. After 2 cut into strips for turned over. In 1 piled two deep and After milling four times and

utes after until the low and soft. PRESSING

hen salt is dissolve rd in the press and ing large cheese we cheese in the hoops and press them for usually make Still esse, however we pres 17 hours.

During the summer etty ripe and workin 78 degrees F., not us anet than usual and o es F., with good re should be exercised er dipping and let th before salting. Un m lot of cheese. As rs without complain

are giving satisfac

ING

.......

Cheese Department

Makers are invited to send contributions in this department, to ask questions on matters relating to chosensking and to engost subjects for discussion. Address literate The those Akare's Dartment.

A Successful Maker Talks

Connolly Bros., Oxford Co., Ont. At the request of Farm and Dairy herewith outline our methods of aking cheese. Our factory is situated about nine

between



In manufacstarter throughout the It is put in the vats in the rning before the milk starts coming . We use from four to five pounds starter to 1,000 lbs. of milk. When gtarter to 1,000 lbs. of milk. When 100 lbs. or so of milk is run into the vat we start beating and proceed byly until the milk reaches a tem-rature of 85 degrees F., then we also a reunet test—8 ounces of milk tha dram of rennet. When thickens in 17 seconds we set the ilk using enough rennet to start agulation in 12 minutes.

CUTTING THE CURE

As soon as the curd breaks clear we t it, using the wire knife, first nce with the horizontal knife. ds for 10 minutes and then heated nds for 10 minutes and then heated adually until it reaches a tempera-re of 98 degrees F. The time oc-pied in cooking varies from 40 to

We use the hot iron test to detere when conditions are right to rewe the curd from the vat. When a see of curd strings out fine from quarter to three-eighths of an inch the hot iron we run off the whey dip the curds into the curd k. Curds are stirred five times let stand 10 minutes stirred again piled up six inches deep and ald to mat. After 25 minutes they cut into strips four inches wide turned over. In 15 minutes they piled two deep and turned at in-15 minutes until ready to After milling we stir three r times and every 10 or 15 four times and utes after until the curd gets quite low and soft

PRESSING

When salt is dissolved we put the rd in the press and press slowly
45 minutes before dressing. When
king large cheese we generally turn e cheese in the hoops in the morn-g and press them for two days. As usually make Stilton and flat sess, however we press only for 16 17 hours.

During the summer when milk is etty ripe and working fast we set 78 degrees F., not using any more met than usual and cook to 102 dewith good results. Great e should be exercised to stir well er dipping and let the curd mellow before salting. Under this sys-of making we have a very unim lot of theese. As one firm has added our cheese for a number of rs without complaint we believe y are giving satisfaction.

An Ideal Milk Stand

Mr. Alfred Shaw, Russel Co., Ont., has an up-to-date milkstand. It is a building of the "lean-to" type, as the accompanying illustration will show. The outside dimensions are 17x 11 feet. The front faces south, so that the sun may shine throughout that the sun may shine throughout the interior to keep the building sweet and kill any germs there may be about the place. The stand is eight feet high in front and six feet at the back. The outside is clapboarded and painted cream color with red trimmings. The building stands on a stone foundation faced with coment of the proof. The tank is underground and is 13 feet long by five wide and four the proof. The tank is underground and is 13 feet long by five wide and four the proof. is is feet long by five wide and four deep, and is made of cement. Large trap doors cover it entirely, so that the building may be used for other purposes if desired. The cans may be sunk deep enough to close these. There are frames fitted into the tank to hold the cans securely so that they cannot dip. A pipe commets the tank with a force-pump worked by a wind. mill. Saturday's and Sunday's milk when placed in the tank can be kept till Monday morning without any more attention. Mr. Shaw believes it would be host for 18 hours. It was There are frames fitted into the tank it could be kept for 48 hours. In very hot weather the water would have to be changed once in this time.

be changed once in this time.

A drain pipe runs the water off into a trough for watering the cattle and other live stock. At the west end of the stand there is a window to provide light and air. The



Where Milk is Always Sweet

Mr Alfred Shaw, of Russel Co., C hose milk stand is here illustrated ever troubled with sour milk. For articulars concerning this stand read particulars concerning this stand read the article adjoining.

—Photo, furnished by W. W. Dool

inside of the building is lined with paper and boarded. This also is to paper and boarded. This also is to be painted. A crane is part of the equipment and this will lift the cans

from any part of the tank and place them on the milk wagon.

This stand is highly commended by Mr. W. W. Dool, Sanitary Inspector for the Ottawa District.

Comments on the Season's Make Frank Herns, Chief Dairy Instructor, W. Ontario The quality of cheese and butter in

Western Ontario up to the end of June was never finer, but since the extremely warm weather set in this high quality has been difficult to maintain. right quality has been difficult to main-tain. In some cases the milk and cream is not properly cooled at the farm; it arrives at the factories at too high a temperature and consequently is over-ripe and gassy. Ray material of this kind cannot be made Raw material of this kind cannot be made into the finest cheese or butter. The makers are putting forth a special effort to keep the factories in a clean,

sanitary condition.

Many cheese factories are in need Many cheese factories are in need of better insulated curing rooms. There is a wide difference in the texture of cheese held in curing rooms at 60 degrees, compared with those held in ordinary rooms, the temperature of many of which went up this season to 88 degrees. Such high temperatures injure the flavor and texture of the finest made cheese. Some creameries also need better cold storages, as it is difficult to properly keep butter even for a few days in poor storages, so that it will retain its fine flavor.

You CAN Afford a SHARPLES **Tubular Cream Separator**

Because The Tubular Wears a Lifetime and Repeatedly Pays For Itself by Saving What Others Lose.

But you cannot afford to risk anything on any other, because farmers who have others are rapidly discarding them for Tubulars. Why? Because other separators are weak in skimming force and repeatedly lose the cost of a Tubular for their owners. And, also, because others are filled with disks or other contraptions which cause much needless work and repair expense.

Stimming force is what does the work. Sampler Evbulars have twice a kinming force is what does the work. Sampler Dulyr Fubulars have twice a kinming force, and so a kim faster and twice as clean as others. Sampler Dulyr Fubulars are the only same separators without claim.

Tubulars are The World's Best. Later than and different from all others. Button the only known principle which overcomes the all others are the world's Heat the world without the same claim and t

THE SHARPLES SEPARATOR CO., Toronto, Ont.

THE IDEAL GREEN FEED SILO



TILL save your hay and decrease your grain bills, you will produce more milk at less expense and with less labor, built from lumber thoroughly treated with specially prepared wood preservative. Free catalogue on application.

The Oldest Company in Canada Building Silos



Canadian Dairy Supply Co., Limited 592 St. Paul Street, Montreal, Canada

Common Errors in Cheese Factories

Thos. F. Boyes, Middlesex Co., Ont. In the London group of cheese fac-tories over which I am instructor. I have found during the season that most of the factorymen are making a fine quality of cheese. There were a few makers in the early part of the season who were not doing the Lest work, but they have improved very much, and their cheese are now of the finest quality. A number of the smaller errors I have found the factorymen in general making are in the preparation of their cultures and handling of the curd in the in the handling of the curd in the var just after cutting, some being allittle rough. If the makers would carefully read and adopt the plan carefully read and adopt the plan wilture, given by Mr. F. Herns and Mr. G. G. Publow, in Bulletin No. 183, much less difficulty would be accurated in the manufacture.

would be encountered in the manufacture of their cheese.

ture of their cheese.

One of the common difficulties arises from allowing the culture to arises from allowing the culture to remain at too high a temperature over night, thus developing too much acid and an undesirable flavor. I also find a number of makers not also find a number of makers not exercising sufficient care in cooking their curds. every often heating them from 88 degrees to 98 degrees in from 20 to 25 minutes, where they should 20 to 25 minutes, where they should take from 35 to 40 minutes on a normal curd. Heating the curd too quickly cooks it on the outside, not allowing the moisture to escape. In warm weather, some makers use too much culture, causing their curd to develop acid too quickly, and thereby not allowing them to stir the curd dry enough after dipping.

The milk in some sections was not

of as good a quality as it should be some over-ripe and some very gassy. I firmly believe that if the patrons and makers would cooperate more and the patrons cool their night's milk down to 60 degrees, having everything thoroughly clean in connection with it, many cf the difficulties would be overcome.

In Farm and Dairy of July 20, Inspector Howie, of Belleville, is missinguoted when it is stated that the water at Sidney Town Hall cheese factory was troublesome. Mr. Howie assures Farm and Dairy that the water though as a largery beautiful of the water thanks a largery beautiful of th er there has always been O.K.

Those who are connected with the cheesemaking industry will be intercheesemaking industry will be inter-ested to learn that according to pri-vate advices the shipments from New Zealand for the past season to the lst of March have showed a decrease compared with the same period for 1909-10 of 8 1-2 per cent. The total 1909-10 of 8 1-2 per cent. The total quantity of cheese exported to that date was 13,944 long tons, or about 390,000 boxes. The shipments of butter from Australia show a very lerge increase, and total to the lat of March 32,235 tons.—J. A. duddick, Dairy Commissioner, Ottawa.

It pays to advertize. Try It.

John Watson, Mrs. Watson

a good, clear, ringing voice. Hullett people thought they as sure of the medal as if

the chairman pinning it on Mayde

Two other girls recited, with nu ous gestures, selections of the class, in which wayward sons, nights, and railway accidents

Then the chairman made the planation in regard to Pearl's appearance, and asked her to come form and recite. Camilla gave her hand

affectionate little squeeze as the seat, and, thus fortified. Watson faced the sea of fac

flinehingly.

Then came that wonderful change the little girl was gone, and an example the strength of the str

because some men will grow rich other men's losses and fatten on tears of little children. The li

traffic stood arraigned before the

ing darker and darker chapters the woman's life. It had been curse that had followed her alw

had beaten and bruised her.

event

prominently.

flinchingly.

August 10, 1

Avoid

For God hath no of fear: but of p

When once we a occupation to whice to believe that God have a right to exp upon our efforts, no nature may be, if a tinue with all our h lod's will. It is ren more than ou or missionary shou us conversions to should imp ving and capable, more affection

ite, and the peace God to abound more t be that we are ser the fulfilling the cor ans 6:5 and 7, and

No.

the farmer should fa and not as before n The business mar oined not to be slo Romans 12:11) In the home the ect to see her chi

The people saw it in its awfulns and the pity of it rolled over the as they listened to that sad, of cracked voice. When she came to the place whe she begged the well-dressed stran to try and save her Loy, and di ing her trembling hands besought God of Heaven to bear with her a little longer, and let her see desire of her heart, her son redee and forgiven, there was an a from some one in the back of the and many a boy away from ha careless and forgetful of his own ther, remembered her now with den tenderness. The words of prayer were stiff and unnatural when did the Spirit of God upon felicity of expression? upon felicity or expression; it a abound wherever there is the bas heart, and when Pearl, with us flowing down her cheeks, but silvoice steady and clear, thanked is God of all grace for sending her is answer to her prayers, even the di-

shadows who keeps watch above l When Pearl had finished, audience sat perfectly motionless, then burst into such a tornado of plause that the windows rattled castings.

est listener got a glimmering of a truth that there is "One behind"

John Watson sat still, but his best was singing within him, Pearlie, God bless her!"

Pearlie, God bless her!"
When the judges met for their i

O the duty which lies nearest you, and which thou knowest to be a duty. Thy second duty will already have become clearer.—Carlyle.

... The Second Chance

(Copyrighted)

NELLIE L. McCLUNG Author of "Sowing Seeds in Danny

HE dirty spalpeen!" John Wat- as this was the star part, Jimmy had son exclaimed angrily. Ye to let Tommy and Billy have it someson exclaimed angrily. Ye may well say that, Pa, after she had to stand from the old all she man. But that's what the piece said:

"But Tom, too, took to drinkin';

He said 'twas a harmless thing;

So the arrow sped and my bird of hope

Came down with a broken wing."

The Watson family were unanimous that Tom was a bad lot!

"Tom cut up worse than the old man, and she used to have to get some of the neighbors to come in and sit on his head while she tuk his boots off, and she'd have clean give up if it hadn't been for her little boy, like Danny here; but if I ever thought that our Danny would go back on us the way that young Jim went back on his ma, I don't know how I'd stand it."

What did he do, Pearlie?" Mary

"Soon as he got big enough nothin'
would do but he'd drink too, and
smoke cigarettes and stay out late,
and one day stole somethin', and had
to scoot, and she says so pitiful:

"I've never seen my poor lost boy From that dark day to this."

Then the poor woman goes to the poorhouse, mind you!"
"God help us!" cried Mrs. Watson,
"did it come to that?"

"Gid it come to that?"
"Yes, Ma: but what d'ye think?
One day a fine-lookin' man came in
to see all the old folks, silk hat and
klid gloves on him and all that, and
this poor woman got talkin' to him,
and didn't she up and tell him the
whole story, same as I'm tellin' you, whole story, same as I'm tellin' you, only far more pitiful, and sure didn't she end up by beggin' him to be kind to her poor Jimmy if he ever comes across him; and tellin' him how she always prays for him and knows he'll be saved yet. She never held it against the young scamp that he never with back even the scratch of never with back even the scratch of a Mar would be for excuses for him as Mar would be for excuses for him the state of the scale of the s

"But, sure, now, it is wonderful how things turn out!" Pearlie went on, after she had wiped her eyes on the sleeve of her checked apron, "for wans't this Jim all the time forninst her, and her not knowin' it, and ner, and her not known it, and didn't he grab her in his arms and beg her to forgive him; and he cried and she cried and then he took her away with him, and she had a good time at lett." time at last."
The next day Pearl borrowed the

book from Maudie Ducker and learned book from Maudie Ducker and learned the words, and for several evenings recited them to her admiring and tearful family. Then, to make it more interesting, Pearl let the young Watsons act it. Jimmy spoke right up and says he: "I bo'r to be the old man, and come bome drunk," but

to let Tommy and Billy have it some-times. The first scene was the father's spectacular home-coming. The next scene was the wedding, and Jimmy made the speech after Pearl had coached him, at in most feeling terms he would his son-in-law against the flow. g bowl, and told what a good girl his little Nancy was, and what a bad pa he'd been; and then he broke down and cried real tears, which Pearl said was "good actin." The third scene was where Tom came home drunk. It was someactin. The third scene was where Tom came home drunk. It was some-what marred by Mary, who was play-ing the part of the broken-heard bride, and was supposed to burst into tears when she saw the condition of her husband, and say:

"So the arrow has sped and my bird of hope Comes down with a broken wing."

Now Mary had her own ideas how intemperate husbands should be dealt with, and she had provided her-self with a small, flat stick as she sat self with a small, flat stick as she sat waiting in what was supposed to be joyful anticipation for her liege lord's homecoming. When she discovered his condition she cut out the speech about the "bird of hope," and used about the "bird of hope," and used the stick with so much vigor that it the bird of hope of having the bird wing. Billy, the bridgeroom, was maturally indignant, but his father the bird of nope of having a broken wing. Billy, the bridegroom, was naturally indignant, but his father was disposed to approve of Mary's methods. "Faix, I'm thinkin'," he said, "there'd be less of it if they got that every time they cum home that

way."
Scene IV. was the young son (Patsey) fleeing from the hands of Jus-tice. Pearlie hid him behind the flour-barrel until the two sleuths of the law, Danny and Tommy passed by, and then he was supposed to do

by, and then he was upposed to do his great disappearing act through the cellar window.

Seene V. was the most important of all. It was the poorhouse, and required a good deal of gtage-setting. All evidences of wealth had to be carefully eradicated. The cloth was taken from the table, and the one mat lifted off the floor. Newspapers were pinned over the windows, and the calenders were turned with their faces to the wall. The lamp with the cracked chimney was lighted instead of the "good lamp," and then Pearlie, with her mother's old black shawl around her shoulders, ceased to be Pearlie Watson and became poorhouse Nan, widowed, deserted, old as the world itself, with heartbreak and tears.

John Watson sat and listened to

stabil, with heartbreak and tears.

John Watson sat and listened to her with a growing wonder in his smoothly back, and heart, but as the story went on even he forgot that it was Pearl, and shed many tunshamed tears over the sorrows of poorhouse Nan.

Camilla came in one night and the context along.

heard Pearl recite it all through.

The morning of the context an emergency meeting of the W. C. T. U., was hurriedly called at the home of Mrs. Francis. What was to be done? Madic Ducker and Mildred Bates had the measles, and could not recite, which left only four reciters. They could do with five, but they could not go on with four. The tick-ets were sold, the hall rented, the context had been advertised over the ets were sold, the hall rented, the con-test had been advertised over the country! Who could learn a recita-tion in a day? Miss Morrison was sens for. She said it was impossible. A very clever pupil might learn the words, but not the gestures, and "a piece" was nothing without gestures. Mrs. White again exclaimed: "What shall we do?" Mrs. Francis said: "We'll see what Camilla says."

heard Pearl recite it all through

what Camilla says. what Camilla says."

Camilla came and listened attentively while the woes of the W. C.

T. U. were told her. It was with difficulty that she restrained an exclamation of delight when she heard that they were short of reciera. "Pearl Watson knows Maudie's selection," she said quietly, "and recites it very well, indeed!"

it very well, indeed!"
"Impossible!" Miss Morrison "Impossible!" Miss Morrison ex-claimed. "She has had no lessons."
"I think she watched you training Maudie," Camilla ventured.
"Only once," Miss Morrison re-plied, "and she can not possibly know

Thanks to Her Friends

I herewith acknowledge the receipt of the dinner set sent me as a premium for securing nine new subscribers for Farm and Dairy. I am very much pleased with it, and the prompt manner in which Farm and Dairy forwarded the same.

and Dairy forwarded the same.
I also wish to thank Farm
and Dairy for the pure bred
Ayrshire helfer calf sent me
through Mr. H. H. Scott, of
Iron Hill, Que., as a premium
for securing 25 new subscribers for Farm and Dairy.

Kindly extend through your valuable paper, to the friends who favored me with their subscriptions, my sincere thanks for their kindness in helping me secure these premiums.—Annie M. McLeod, Soulanges Co., Que.

the gestures; but we will be glad to have any one fil! in. People will not expect her to do very well when she has had no training," she added char-

When Camilla returned to the kitch-When Camilla returned to the kitchen she was smiling gently. "There's a surprise coming to little Miss Morrison," she said.
That night the hall was full to the door, and people stood in the aisles. Everybody loves a contest. Pearl and the other four contestants sat in a

front seat. The latter were beautifully dressed in white net over silk, with shoes and stockings of white, and numerous bows of ribbon.

By the draw that Miss Morrison made, Pearl came last on the programme, and Miss Morrison kindly asked the chairman to explain that Pearl had had no training whatever, and that she had only known that she was going to recite that morring. Miss Morrison wished to be quite

Camilla sat teside Pearl. She had Camilla sat Leside Pearl. She had dressed Pearl for the occasion, and felt rather proud of her work as she sat beside Contestant No. 5. Pearl's brown hair was parted and brushed smoothly back, and tied with two new dressed Pearl for the occasion, and felt rather proud of her work as an east beside Contestant No. 5. Pearl's ison it was found that they is sat beside Contestant No. 5. Pearl's ison it was found that they is smoothly back, and tied with two new bright red ribbons—Camilla's gift. It did not occur to Pearl that she was in the race for the medal. She was glad of a chance to fill in and help the contest along.

When the judges met for their dission it was found that they is found to they are for their forms that her was found that they is found to mark Pearl as a their rules required them to a their rules required to a their rules required to a t

John Watson, Mrs. Watson, and a the little Watsons were present, as filled two side seats. Mr Fraze had heard something from Cambia that caused him to send tick to the whole Watson family, and one continuely, which was an unprecedent open to the continue of the watson family. The Upw Lucy Bates was the first cont and made her parents and miring relatives very prou-way she recited "Saloons M way she recited Sanoons Aust 60 She stamped her little white for and stoutly declared that saloons my go, and then backed away born beautifully all a flutter of lace. Maude Healy—the star recite
he Hullet neighborhood—re
'How Father Signed the Pledge

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

Avoid Fear

No. 20

For God hath not given us the spirit of fear: but of power, and of love

When once we are engaged in an eccupation to which we have reason oblieve that God has called us, we have a right to expect God's blessing have a tight to expect God's blessing upon our efforts, no matter what their sature may be, if we steadfastly continue with all our heart of the form of the form

with the object of pleasing God and with the object of pleasing God and not as men pleasers, we may well look forward with confidence to the time when we will be our own masters are the confidence to the time of the confidence of the confidence toward God. He whatsoever we ask, we receive of the because we keep His commandments and do those things that are pleasing in His sight." I. John 3:21, 22,1 Mf success is not attending our efforts as we feel that it should then we forts as we feel that it should then we should ask God to help us to search our hearts and to reveal unto us the many cassons. Whatever we find, however, we must have failt to be-

many reasons. Whatever we find, however, we must have faith to believe that God loves us enough to give us the victory over the causes, or defects of character, that are hampering us.

selfs will. It is then God's work, we more than ours. The minister of missionary should experiment to grass hold back most of us. Our fears hold back most of us. Surface and the farmer should farmed his efforts: the farmer should farmed his efforts where the farmer should anticipate that his sumers should improve and the sumers should improve and the sumers should improve and sumer or business man is especially ended to be slothful in business. Somman 12:111

In the home the mother should exercise to be cause her efforts the sumer more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her husband beams more affectionate and considering and capable, her hu lects or character, that are nampering us.

Our fears hold back most of us.

We are afraid to try. The minister may be afraid to speak out and tell plain truths to his congregation, the contraction of th

not given us this spirit. It is because fear hath torment. He that feareth is not made perfect in love. If the minister feels that he should

speak out and fears to, if the farmer or business man feels that he should improve or extend his operations in certain ways, but lacks the courage certain ways, but lacks the courage to assume the extra burden involved, if the mother feels that she should talk plainly to her boys and girls about moral or spiritual matters, but hesitates through the expectation of a rebuff, if any of us are being held back from doing what the inner voice speaking to us tells us that we should, then we may know that Satan is gainthen we may know that Satan is gain-ing the ascendancy over us through his agent, the spirit of fear, and we should use the sword of the spirit. which is the word of God by bringing to our mind and believing such as-

Medicinal Properties of Fruit Ripe apples eaten raw and thoroughly masticated are excellent for

oughly masticated are excellent for digestive troubles.

The pear shares the medicinal qual-tities just recited, and in addition, is somewhat more easily digested by weak stomache than is the apple. The quince is only used in the form of preserves, as a rule. It is said that owing to its excessive astringency when raw, it is employed by the pea. when raw, it is employed by the pea-

when raw it is employed by the pea-santry of Europe to stop hemorrhages by placing alice of it on wounds. The cursties of it on wounds. The cursties of the grapes are established facts, as of the grapes are established facts, as of the history of the "cures" in which the large pro-portion of oxalic acid that it contains, is a capital anti-scorbuic. In the case of minor forms of scurvy it acts as a curstive. The young plant, when great assistance to the constipated.

well known.

Bananas should be used with cau-

Dahanas should be used with cau-tion by the constipated.

The fig possesses laxative powers of a high order. This is also true of dates and tamarinds.

Peaches, apricots, and nectarines have marked laxative effects.

The plum greengage, dameso and

The plum, greengage, damson, and forth, all have medicinal qualities. Rackberries, raspberries, huckle-berries, and most other terries act as blood purifiers and laxatives.

Renew your Subscription now.



Note the Color of your flour-And the Bread it makes for you. Delicately creamy is FIVE ROSES flour. Because it is not bleached, don't you

Clear-Immaculate-Desirable.

A pure Manitoba wheat flour-FIVE ROSES.

And the healthy sun-ripened spring wheat berries are naturally of a golden glow. And the meaty heart of the polished kernels is creamy.

Milled from this cream, FIVE ROSES is delicately "creamy."

The only natural flour from Manitoba's prime wheat. Which gets whiter and whiter as you knead it. And your bread is most appetizing, unusually attractive

in appearance Looks good.

And is good. Bake this purest unbleached flour.

Not Bleached



LAKE OF THE WOODS MILLING COMPANY, LIMITED MONTREAL

Not Blended

**************** OUR HOME CLUB ******************

(16)

Cousin Ivan is in such sympathy Cousin Ivan is in such sympathy with country girls who leave the good old farm home to go to the city to learn a profession that I feel rather nervous about differing in opinion, but I will, however, have Rob Roy on my side if I incur his displeasure. I might soy that far too many boys

and girls from the country seek their fortunes in the city and rarely find them. The farm may be slow to the city with its noise and roar of street cars, its masses of humanity who are ever ready to grasp the gold, and who often get it but seldom if ever keep it; its hot, dusty pavements, etc. These people have no time to e evenings. How much more pleasant for the young women and men who stay at home on the farm, breathe good, pure air, drink pure water, play clean country games and save the money they have earned and place it where it will bring them good interest and by the time they need it it is something that has paid them well for the care they have taken of it. I do not mean to be stingy, but I do not believe in wilextravagance or spending the vages as soon as they are earned.

The time is fast coming when the

country born boy and girl will be proud to say they come from the and intend to make the farm their home

A short time ago I read of a city man visiting on the farm of a friend a few miles from the city, and in speaking of making money the farm-er said. "We usually put away \$500 er said, "We usually put away soon clear money every year, profit made clear money every year, profit made from our 50 acres, but we do not expect to do quite so well this year on account of so little rain. The city man said. "Do you know, John, I acres and I consider I man said. "Do you know, bonn, get \$1,800 a year and I consider I do pretty well if I do not come out in debt at the end of the year." And still our boys and girls have continued to go to the city. We are pleased, however, to note the fact that the younger generations see things in different light.—The Doctor's Wife.

... BIG HARVESTS FROM SMALL SEEDS

Now that we have had a good farmdemonstration train in it having been run on the Michigan Central Railway in southwestern Onare talking as to the good it might have accomplished. Right on this point I wish to give Farm and Dairy readers the benefit of the idea con readers the benefit of the idea contained in an article recently in an American farm journal, which shows the great possibilities that may come frem such educational work. The article is entitled "What Curiosity Did for John." It follows:

John want's much enthused about farming. His father didn't seem to have were much reamed for his call.

farming. His father didn't seem to have very much respect for his call-ing either, so it was natural John should long for the time when he could cut leose and go to town to work

It was when he was in town one Saturday afternoon that he chanced

CAPABLE **OLD COUNTRY** DOMESTICS

Arriving Aug. 5th. Aug. 19th, Sept. 3rd, and weekly after. Apply now The Guild, 71 Drummond Street, Montreal, or 14 Grenville Street, Toronto Ont.

to see a notice posted in the post office that a corn special train was going to stop there the next week. A cern special—what was that? He thought it was to be some sort of side show and determined to go and

When he told the folks about it at the supper table that night his father said, "Hugh! it's that special train of college professors I've read about in the weekly paper. Guess you won't get anything new from them about corn."

OUT OF CURIOSITY
The scheduled day was a stormy
e. It was more out of curiosity and a desire to get out of cleaning the barn that impelled John to face the storm that seven miles and meet the corn special. Father stayed at

The speaker on that corn train gave a right-from-the-shoulder talk on better farming methods and John with mouth open taking in the enthusiasm of the mcment.

He went home in a daze—a kind of hazy condition of the mind, caussome of the things he had heard and some of the things hehad heard and a fear that he would meet such oppo-sition at home that he hardly dared mention it.

And sure enough, he did meet op position. John's father was considered a good corn grower. So when John spoke of testing every ear ern to see if it would germinate the father pooh-poohed the idea of any college feller telling him or anybody about seed corn. He knew his would grow, for he had selected it care He knew his would

But John was so persistent on the idea of testing that the father told him to go ahead with a bushel and do as he pleased—only John would have to plant what he got and care for it, for he'd not be responsible for any failures if John followed newfangled methods.

So John tested out a bushel and So John tested out a nussea and got enough good ears to grew a small plot. The pile from which he sa-lected was poor seed, but John said nothing to his father about it. He planted his tested seed on one side of the field where he could care for it with the tann as he went through with the team as he went through his father's corn

THE RESULTS It didn't take until picking time to show John's father that the stand in the big field was very much below the patch John had planted from tested seed.

The long, and short of it was that John had the best corn and she that

John had the best corn and the largest yield, and from his patch the seed corn for the next crop was seseed corn for the next crop was se-lected. His father became more in-terested in Letter methods. He sent John to attend the short course at the college and—well, John gave up the college and well, sonn gave up the notion of leaving the farm when he became of age. He is now a regu-lar attendant upon all cern shows, where his winnings have more than paid his way

Father and son are now partners in the seed corn business and last winter the senior member of the firm took in the short course at the countook in the short course at the county seat where he was an interested pupil. You can't ridicule book farming in that heme now without raising a row, for they are all enthusiants or the result of th

Now that school sort and vacation days are here, do not tie the boys and girls down too closely to farm work. Give them something useful to do, of course, but also allow them amply time in which to have "good times." Then the lure of the city will not prove the half as attractive. half as attractive

To Preserve Apples for Winter Resessassesses tetts Julia Stewart, King's Co., N.S.

Fruit season is here and I should like to tell the readers of Farm and Dairy one of my ways of keeping apples for winter use. (heaping tablespoonful of sulphur needed for every four gallons of fruit. Use an old iron pot or skillet for Use an old iron pot or skillet for burning the sulphur in. Place it in a barrel which is as nearly air-sight as possible to get. Fill the pot half full of live coals and lay the sulphur on these. Place the basket over the barrel immediately, covering all closely with an old cil cloth, so as to have it as nearly air-tight as you can. Let it stand over night, then pack the apples tightly into stone jars, with a double cloth over the top. You can keep it in the cellar or in any room. Freesing will not hurt the apples prepared in this way. When wanted for use, pour boiling When wanted for use, pour boiling water over them, let stand until cool then wash and cook like fresh apples. Peaches are also good done in this way.

To Manage a Man

People rarely quarrel over the large and important issues of life. But they will fight to the death about the things that don't matter. In most families there is some small bone of discord which crops up again and again at every meal—a mean, con-temptible cause of strife that none agree to bury decently once and for all. Between husband and wife some petty difference gradually grows which petty difference graduany grows which touches each on the raw whenever it appears with Jack-in-the-box regular-ity. A tactful, womanly management in the early stages would prevent the stupendous growing power of these matrimonial bogies.

Maybe a man's temper is a little
"short" when he comes home in the
evening. No doubt he has faced
twenty men with short tempers and
small patience in the course of a day.
His wife can eternally face one; and
it is the privilege of her partnership
to soothe and manage a tired man.

After all, unselfishness on the part of the wife is the best weapon to fight an irritable man with; and a man must be a bear indeed if he can hold out against an unremitted course

THE COOLS THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy. Peterboro. Ont. Kaasassassassassassassassassa

GOOD EGGLESS DOUGHNUTS

Two cupfuls of warm mashed po-tatoes, two cupfuls of sugar, one cup-ful of sweet milk, two tablespoonfuls of butter, five level teaspoons of bakng powder, one teaspoonful of vanills. Flour to make soft dough. Roll out half an inch thick. Fry in hot grease. The potatoes keep the dough-nuts soft and they keep fresh much longer than those made with eggs.

CORN-BREAD

Two and one half cupfuls of sifted meal, one teaspoonful of salt, one level teaspoonful soda. Mix together dry, then add enough sour milk to make medium batter. Grease bread-pan. Then melt a tablespoonful of pan. Then melt a tablespoonful of lard in it, and pour in the corn-bread. Bake in quick oven.

BROWN BREAD

One pint of sour milk, one tea-spoonful of soda, one half pint of New Orleans molasses, one tablespoonful of baking powder, two pints of Graham flour. Beat well. Bake in well-greased half-pound cans in slow oven.

The Sewing Room

Patterns 10 cents each. Or or by a mmber and size. If for children, a mmber and size. If for children, a property of the children of the child



the peasant with sailor cone of the latest development. that of model exceedingly ing and a in a number ways.

For the med size will be requ

2 yards of m 27, 1% yards 36 inches wide, y yard 27 for and cuffs, % yard lace, 9 inches for under This patt 40, and

in sizes 34, 36, 38, measure. CHILD'S DRESS, 7074



The frock that made with a pane effect is a new or much liked and a ceediagl, 6mar This includes model sleeves.

For a child of a years of age will be required 3% yards a material 27 or 3 yards 36 or 44 inche wide, with 1 yard 2 for the relationship. for the yoke, and trimming This pattern is in sizes for dren of 4, 6, years of age.

BOY'S RLOUSE SUIT. 7102 NICKERBOCKERS TAAT CAN B FINISHED WITH KNEE HANDS



The blouse suit is a favorite one the older boys. The model can be utilis ed for one mater throughout trousers of and blouse of the ner material.

For the 10 yer size will be require 4 yards of mate 27 inches wide, yards 36, 2% yards inches wide

This pattern is in sizes for boys 8, 10, and 12 yes of age.

WORK APRON, 7088
WITH SQUARE OR HIGH NECK, WITH
OR WITHUOT SLEEVES



Such an apres this one is liked many women. It amply prote and it suits artist and the signer as well a

does the houses For the med size will be requi 7% yards of mat or 41/2 yards yard 27 for the tr

This pattern is in stizes .4, & l 40, 42 ard 44 is bust meas re.

PRINCE EDV KING'S MONTAG LOWER MONTAGE is well under way, poor crop- no clover ing well. Potatoes cother vegetables are good, although very yet. Portico bugs are crop will not be spected owing to so trees due to the dratthe cheese factor in quantity.—G. A. A. OUE

MISSISQUO FRELIGHSBURG, of hay is now being weather and lack o as from getting it ime. The intense me. The intense onth caused wheat month caused wheat some of it is now r Tay heat and drouting postures and the shrunk about 35 per very troublesome. but unless we get afraid the yield will at 87 a cwt. for sole a 1b.—C. A. W.

EASTERN GLENGARR ALEXANDRIA, July to turn out better ly to turn out bette ing is now in progre the crop will be an class quality. Rece proved the pastures corn are looking we FRONTENA

ELGINBURG, Aug. and old meadows did expected, but new sec is nearly all ripe, their oats in the st their oats in the st are not proving goo looking fine. A few of late at \$7.25. O their milk, but as th they are now holdin HASTINGS

CHAPMAN, Aug. 1 ed and the crop has good. Alfalfa is mi growth. Barley is and oats and peas a Corn and root crops growth. Early pot cases a failure. Pa short and the milk Hogs are selling at its a doz.—H. S. T. NORTHUMBERL.

NORTHUMBERL NORTHUMBERL BRIGHTON, Aug. 1 average. Oats are a tatoes very small a Some orchards are quality fruit. There of raspherries, but no good for all kinds of stock is in good dem. H. C.

H. C.

CASTLETON, Aug.
in milk on account of
Chesse is selling for
dry weather has aff
in this district. Cor
fine. The rye and
cut and threshing h
ples are fair and buy
prices.—N. P. M.

THE GULLY, July 2 ning from one-half to ton an acre, with n tures are all gone. about 30 to 40 per patchy; corn good.—T patchy; corn good.—T WICKLOW, July 2 done. Timothy is a is little clover. Gra Winter wheat is cut crop. Barley is a goo is past the average, prospect. The outlor discouraging: there foul brood has mad pect. The puraging: there brood has made brood has made astern part of the

PETERBORG
LASSWADE, Aug. 1.
ing some fine showe
week, which were be
potatess and roots le
ter. The farmers hav
y finished. Cows are
to the good pasture.
for \$1 a bag, but as
the new ones are nyet.
Butter is 19c.—h

ONTARIO COOPERS FALLS, crop is fair, yielding acre, Some report last year, and some There will be plenty etts

.,,,,,: FARM AND DAIRY CROP REPORTS -OUR FARMERS' CLUB-

PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND
SINOS CO. P.E.I.
DOWER MONTAGUE, July 25.—Haying
well under way: the hay is a very
see con-one clover at al. Ornin is doper control of the control of the control
of the control of the control
of the control of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
of the control
o

OUEBEC. MISSISQUOI CO., QUE,

MISSISOUOI Co., QUE, ypgLLGHISBURG, July 27.—A good crop of hay is now being housed, but showery wather and lack of help has prevented as from getting it all cut at the right must be supplied to the supplied of the supplie

EASTERN ONTARIO GLENGARRY CO., ONT.

ALEXANDRIA, July 20.—Crops are likely to turn out better than expected. Hay to turn out better than expected. Hay the crop will be an average one of first-class quality. Recent rains have improved the pastures, Oats, barley and cern are looking well.—M. M.
FRONTENAC CO., ONT.

ELGINBURGA, Aug. 1.—Haring is over and old meadows didn't prove as good as is nearly all ripe, and a number have their oats in the stook. Early potatoes are not proving good, but lake once are of late at \$7.25. Cattle have failed in their milk, but at the after grass is good they are now holding their own.—I. S. (URLDWARTERS).

HASTINGS CO., ONT.

CHAPMAN. Aug. 1—Hayne is completed and the crop has in most cases been growth. Barley is nearly all harvested, and oats and peas are ripening very fast. Corn and root crops are making a good cases a failure. Pastures are becoming short and the milk flow is diminishing. Hope are selling at 70 a. lb. and eggs at 50 NOPTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT. NORTHUMBERLAND CO., ONT.
BRIGHTON, Aug. 1.—Hay is below the
arerage. Oats are an excellent crop; potators vry smaller of the control of the control
quality fruit. There is an abundant crop
of raspberries, but no cherries. Prices are
good for all kinds of farm produce. Live
sicel, is in good demand at light prices.—

II. U. CASTLETON, Aug. 1.—Cows are failing in milk on account of shortage of pasture. These is selling for good fagures. The dry weather has affected the pea crop in this district. Corn and potatoos look fine. The rye and wheat is almost all cut and threshing has commenced. Apples are fair and buyers are paying good prices—N. P. M.

THE GULLY, July 20.—Hay is light, run-ning from one-half to three-quarters of a on an acre, with no after grass. Pas-ures are all gone. Milk has fallen off hout 30 to 40 per cent. Turnips are atchy: corn good.—Thos. Hoskin.

patchy; corn good.—Thos. Hoskin.
WiCKLOW, July Z.—Haying is nearly
done. Timothy is a fair crop, but there
is little clever. Grain is ripening fast.
Whiter wheat is cut and is a very heavy
is past the average. Apples are a good
prospect. The outlook for beskeepers is
diecotraging; there is little honey, and
full brood has made its appearance in
the contern part of the country.—B. B. II.

PETERBORO CO., ONT. PETERBORO CO. ONT.

LASSWADE, Aug 1.—We have been have
prome fine showers of rain the past
seed, which were badly needed. Grain,
lotaters and roots look 10 per cent. beter. The farmers have their having nearer. The farmers have their having nearor the prometries of the property of the protoproperty of the property of the proproperty of the property of the proproperty of the property of the proproperty of the property of the property of the proproperty of the property of the property of the proproperty of the property of the property

ONTARIO CO., ONT.

COOPERS FALLS, July 19.—The hay rop is fair, yielding about 11-2 tons an cre. Some report a better crop than ast year, and some not quite as good. There will be plenty of pasture.—Martin institute.

WESTERN ONTARIO

SIMCOE CO.

ALLISTON, July 25.—There has been an unusual dry, hot spell during part of June and the early part of July. Hay is a short crop; so also is fall wheat, which a short crop; so also is fall wheat, which so a short crop; so also is fall wheat, which complete failure. Rains since the 13th of July, while retarding the harvesting, will be of benefit to the root crops.—H.O. WENTWORTH CO., ONT.

WENTWORTH CO. ONT.

KIRKWALL, Aug. 2—The weather is still very dry. Harvest is nearly over. Pastures are still very dry and short. Cows are falling and on many farms could be still very dry and short. Cows are falling and on many farms could be still very dry and short could be still very dry and so that the still results are the still results are still very dry and powing for wheat unless on summerfallow. Old wheat is selling at 80:, new, and powing for wheat unless on summerfallow. Old wheat is selling at 80:, new, and heavy horses as high as \$25.—C. A. W. heavy horses as high as \$25.—C. A. W.

WATERLOO CO., ONT.

as high as \$200.-U. A. W.

ELMIRA, July 22.-Your scribe has been somewhat hus whrouch pressure of work, somewhat hus who the pressure of work, somewhat hus who had been seen the comportunity to report from one and a quarier tons an acre. The drought has affected newly seeded clover and was a rather light crop, about one and a quarier tons an acre. The drought has affected newly seeded clover and the seeded clover a

ESSEX CO., ONT.

service after August.—A. B. S.

SESEN CO., ONT.

WINDSOR.—A uniquely prosperous country flourishes a few miles down the St.
Clair River at Petit foce. It is a Frenchtick of the service of the service

er or later?—T. G.
COMBER July 20.—The extra dry season
has made the hay crop not over one ton
an acre. Pastures are almost dried up
(burnt). Spring seeding of clower is reported by some to be good, but plants
very small. With frequent showers it
will make good. We will have a bumper
vield of wheat, barley, oats and corn.—
W. G. O.

NORFOLK CO., ONT.

WALSH, July 25.—The hay erop is better than the walority of farmers expected. It will average better than a tan to the acry. Pesture is very short, cutting the dry, hot weather in the early part of July being the cause. Young clover eaches are "fullury. Bome are coutling, the dry, hot weather in the early part of July being the cause. Young clover catches are "fullury. Bome are WATERFORD, July 26.—Hay is better than was expected, and is a good fair crop. Wheat is a fair crop. Date are postores. The local showers lately have greatly improved the pasture. All considered, I don't think we need to grumble.

—A. E. OXFORD CO., ONT.

OXFORD CO., ONT.

GOLSPIE, Aug. 1.—The root crop is doing well. Farmers in general kept the souffer and hoes at work to keep the moisture. Some sowed late turnips that never cume on account of the dry weather. Some sowed Hungarian grass, but it did not come up.—A. M. Mod).

BRANT CO., ONT.

PALKLAND, Julv 10.—Haying is finished. The yield was good. Wheat is nearly all cut and has been injured badly by the Hessian fly. It is a fair crop. Barley is short. Oata are in need of rain. Turnips have made a poor stand generally, and

many are cultivating the ground over again. Those that dic considered the state of WELLAND CO., ONT.

STONE QUARRY, July 29—Another week will find the harvest pretty well completed. Nearly all the spring grain to complete and the spring arange of the spring praint is below the average. Some wheat has been threshed, it is not turning out well, the spring praint well and the spring praint of the spring p

HURON CO., ONT.

HURON CO., ONT.

GODERICH, Aug. 1—Oas cutting is now well under way, barley and wheat having already been atored. Oats are short in the control of the contr

GREY CO., ONT.

HANOVER, July 18.—Hay is a fine crop, yielding about one and three-quarters to two tons an acre. Clover was not affected by frost, and pastures are very good. Fall wheat only a half crop, spring crops look well, especially oats. 8. B. Clarke.

ALGOMA DIST., ONT.

spring crops took well, especially ease.

B. Claim.

B.

MUSKOKA DIST., ONT. ARKWORTH, July 25.—The hay crop is decidedly above the average. There was no winter-killed clover, and the prospects for fall pasture are very promising. Grain and roots will also be above the average.—G. T.

(17)BRITISH COLUMBIA

GOSSIP

Farm and Dairy is in receipt of a letter from Mr. G. A. Gilroy of Glen Buell.

What, who has recently returned from

Couple of car loads of pure bred Holstein

cattle at the Calgary Exhibition. His

cattle at the Calgary Exhibition. His

both the championship and the reserve

championship or females. All the fe
make in the first prize herd were fur
nished by Mr. Gilroy.

PARAFFINE WAX

Pure Refined Parafilne Wax in 120 lb. dust proof packages. Oderless. Tasteless. Free —168 Page Book—all about oils and wax. WAVERLY OIL WORKS CO., PIT PITTSBURGH, PA

4 CENTS PER LB. WINDMILL



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

ALWAYS WINS field competitions because of its wonderful capacity Bissell Disc Harrow in action and you'll buy no other. Write for Harrow Catalog to Dept. R T. E. Bissell Co., Limited Blora, Ontario 65

Trade Mark Registered.

Acts Like Warm Underwear

You wouldn't care to depend for warmth on a suit of paper underwear. Why depend on building paper to keep your house

"Sovereign" Sheathing Felt is made with WOOL, saturated and coated with the same gum that makes RUBEROID Roofing so good It does more than break the wind—it actually keeps the house warm.

Keeps out dampness, too, for it is waterproof, just like Ruberoid ofing. It will not rot or become mouldy; is odorless and strongle Roofing. It was fire-resisting.

Don't miss the extra warmth and comfort of a "Sovereign" Sheathed house, and the continual saving in coal bills, for the few dollars difference in first cost. Get a sample of "Sovereign" Felt from the nearest Ruberoid dealer, or write us direct for sample and Booklet B.

THE STANDARD PAINT CO. OF CANADA, Limited

286 St. James St., Montreal 179 Bannatyne Ave. East, Winnipeg 25 Pender St., West, Vancouver.

EVERYWHERE

MARKET REVIEW AND FORECAST \$ ------

Toronto, Monday, Aug. 7.—As is to be expected, wholesale trade is quite, but dealers report that prospects for the fat frade are good and getting brighter all the time. Reports from the Canadian West would seem to indicate that their record wheat crop is likely to be harrest except the control of the cont

AYRSHIRES

AYRSHIRES AND YORKSHIRES

HIGH-CLASS STOCK FOR SALE
Ayrshire calves and cattle, all ages:
Yorkshire pigs and superior sows bredBoth sire and grade sire from imported
stock

HON. W. OWENS. ROBERT SINTON PROPRIETOR MANAGER Riverside Farm, Montebello, Que

AYRSHIRE BULLS

Young Bulls all ages up to one year. Three t for immediate service, all from R. O. P. cock. Write for prices. James Begg, 8t. Thomas, Ont.

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull calves, all from R.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address

WOODDISSE BROS., Tanglewyld Farm ROTHSAY, ONTARIO

THE SPRINGBANK HERD OF AYRSHIRES Contain more World's Champion milk a butter producers than any other herd America. A few choice bull calves fr record breaking dams for sale at reas able prices. Address

A. S. TURNER & SON, Ryckman's Corners, Ont.

3 miles south of Hamilton.



Cows, also Bull Calves.

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

HECTOR GORDON.

0-9-8-10

SUNNYSIDE AYRSHIRES. Imported and home bred, are of the choicest breeding, of good type and have been selected for production. THREE control of the control of the

J. W. LOGAN, Howick Station. Que ('Phone in house.) 1-6-11

LAKESIDE AYRSHIRES

Special offering of four young hulls, dif-ferent ages, from imported stock. Write for particulars.

LAKESIDE FARM, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop. 184 St. James St., Montrea

RAVENSDALE STOCK FARM

Ayrshires, Clydesdales, Yorkshires A few very choice Bull Calves, out of deep milking dams, and sired by Bencheskie Cheer-ful Boy" (Imp). Write now and secure first choice. Females of all ages. A Commercial Herd.

W. F. KAY, PHILIPSBURG, QUE

CHOICE AYRSHIRES Are Bred at "CHERRY BANK"

A few young bull calves for sale. Write for prices

P. D. McARTHUR, North Georgetown Howick Station on G. T. Ry

BURNSIDE AYRSHIRES JUST LANDED

12 Bulls fit for service, Scotch winners, 4 2 year old heifers, all bred to treshen in Sept. and Oct. They are a grand strong lot of useful heifers with good teats. Also a few good year-lines.

R. R. NESS, HOWICK, QUE.

Wheat has been decidedly stronger this week than last, and quotations for Manicolas wheat have again passed the dollar mark. The increase in strength in the wheat market has been continuous since wheat market has been continuous since of crop damage in the Canadian west and encouraging cables from the old country combined to make wheat attongs. No. 2, 81.01.4; No. 3, 200.014; No. 2, 81.01.4; No. 3, 200.014; No. 2, 200.014; No. 3, 200.014; No. wheat at 77c to 78c on ca

COARSE GRAINS

COARSE GRAINS

There have been few changes in the market for coarse grains. Oats and corn have hardened without much advance in price, while peas have advanced. Quotation No. 2, 3se to 46e; 42e. to 42e. Outstrio No. 2, 3se to 46e; 42e. to 42e. The corn, 671-52e; peas, 8be to 82e; rye, 76e to 75e; barley, malting, 65e to 56e; and buckwheat, 50e to 55e.

On the Montrea' market coarse grains of the Montrea' market coarse grains error No. 2, 43-44e; No. 3, 43-5e; No. 2, to-cal white, 4te; No. 3, 45e; No. 4, 3se; corn, 61-2e; barley, malting, 74e to 75e; peas, 81.66 to 81.2e; barley, malting, 74e to 75e; peas, 81.66 to 81.2e, and buckwheat, 58e to 55.

MILL FEEDS

Manitoba bran is quoted in Toronto at \$21 in bags, shorts, \$23; Ontario bran, \$22; shorts, \$23.50.

At Montreal there is a temporary scarcity of mill feeds. Prices quoted, which are purely nominal, are: Manitoba bran, \$21: shorts, \$22.59 to \$23: middlings, \$24 to \$25 a ton in bags.

HAY AND STRAW

HAY AND STRAW

A feature of the hay market in both
Quebec and Ontario is the large buying
of United States II being reported
that one United States II being reported
that one United States III being reported
before the end of the year. The hay crop
has been short all over the Eastern States
and in many parts of Ontario as well,
and in consequence large offerings have
not decreased prices in the least. Under
present conditions it is certain that with
year that the control of the III being
the full selled of the III being
the full selled of the III being
the full selled States. On the Farmer's
Market timothy hay is quoted at \$30 to
\$2z; clover and mixed hay, \$10 to \$15, and
straw bundled, \$14 to \$15. Wholesale
prices are unchanged. prices are unchanged.

prices are unchanged.
On the Montreal market there is an ac-tive demand for new hay, caused by American operators who are paying \$12.50 for No. 1 and \$10.50 to \$11 for No. 2. There is also a good demand for hay from old country points. No. 3 hay is \$7.50 and \$10.50 to \$10.50

HIDES

Latest quotations for city hides are: No. 1 inspected steers and cows, 121-26; No. 2, 113-2c; eity casif skins, 15c. The prices being paid for country stock are: Hides cured, 111-2c to 12c; green, 101-2c; lates and pells, 35c to 50c; horse hides, No. 1, 85; calfskins, 13c to 14c.

FRUITS AND VEGETABLES

POTATOES AND BEANS.

tatoes now have the run of the Wholesale quotations average

\$4.50 a bbl. New Canadian potatoes are \$1.50 a bush. Beans are quoted at \$1.25 for primes and \$2 a bush. for hand

No old potatoes are now being offered on the Montreal market, and what sup-plies are coming to hand are small lots of the new second form near farms. on the Montreal market, and what sup-plies are coming to hand are small lots of the new crop from nearby farmers. Prices for beans range from \$1.90 to \$2 for three-pound pickers. HONEY

MONEY
Wholesalers are selling buckwheat at 5c to 7c a lb. In tins, and 63-4c in bbls, while strained clover honey is 10c a lb. in 66-lb. tins; 5 to 10 lbs., ilc. No. 1 comb honey is quoted at \$2 to \$2.25 a dox.

EGGS AND POULTRY Receipts of eggs are slackening, and quotations are ruling stronger. Dealers are quoting 22c to 23c for strictly new it and 18c to 19c for fresh gathered. On the Farmers' Market new laid eggs

are zee to 28c.

Chickens are quoted at 16c to 18c a lb.;

fowl, 14c to 15c; ducks, 18c to 21c. On the

Farmers' Market chickens, dressed, sell at

20c to 25c; fowl, 14c to 16c; and ducks,

17c to 20c.

A feature of the Montreal market is the

strong demand for every in select lots.

arrong demand for eggs in select lots. The shrinkage in straight receipts is still very heavy. Dealers are paying at shipping points west of Toronto, 14c; east of Toronto, 15c. No. 1 stock commands 181-2c and select quality 25c.

and select quality zec.

DARY PRODUCE

The market for dairy produce continues true. A feature of the butter market is the large buying of butter by United strong. Quotations are as follows: as former, Quotations are as follows: as former, Quotations are as follows: as former, Large buying the prints. 28 to 195: solids, 21s to 22c; tairy prints, 28 to 195: solids, 21s to 22c; tairy prints, 28 to 195: solids, 21s to 22c; tairy prints, 28 to 195: solids, 21s to 22c; tairy prints, 28 to 195: New Acresse is quoted at 28 to 25c. New Acresse is quoted at 50 to 25c. New Acresse is quoted.

MORSES.

HORSES.

HORSES.

There being so few horses changing bands, it is not possible to give any extended report horse horse trade. Prices are quoted purely in a following the continuous cont

LIVE STOCK.

Few changes in prices are to be noted to a result of the operations on the live stock markets last week. A week spot coday, warm weather and an exceptionally heavy run made the market gargy, al-though choice animals were not affected scriously. Choice butcher catile were most attractive, and one or two ploked lots sold 1st aton price of \$6.5 to \$6.0 to \$1.00 to \$ it a top price of \$6 to \$6.00. Export steers sold at \$5.00 to \$6.20. Little interest was evidenced in cows and other classes of rough cattle, few selling for more than \$4.75. The Tuesday market also was draggy, prices ruling the same. Further recessions in order

Further recessions in prices and a slow rade were induced on the closing mar-

O. K. Canadian U-Bar Patented Steel Stanchions



Are free and easy on the cattle, but strong and dura-ble, being made of high carbon U-bar Steel it is impossi-ble to break or twist them out of shape. The swing bar will not sag and guaranteed not to be opened

the cattle. Write for our pri Canadian Potato Machinery Co., Limited 127 Stone Road, GALT, ONT.

HOLSTEINS



If you are wanting HOL. STEINS, any age, either sex, GORDON H. MANHARD, Manhard, Ont

Homestead Holstein Stock Farm Offers for sale 2 Choice 5-year-old Cows of best breeding and heavy persistent pro-ducers, due to freshen Sept. 1st. Bred to Aggie Prince Pietertje C., No. 8413, one of the highest R.O.P. bred bulls in Can-

B. R. BARR. Harrietsville,

HOLSTEINS

WOODCREST HOLSTEINS



few Calves for sale; six is ten months old. Homestead Girl Some

Sarcastic Lad, and grand sons of Pietertje 22nd. Recently berculin tested by a U. S. inspects. Write for pedigrees and prices. WOODCREST FARM

RIFTON; ULSTER CO., - - NEW YOR

Lyndale Holsteins Offers two, young bulls born September 1910, one of them from a tested daughter of Brightest Canary and sired by a sg of a 20.35 lb. yearling daughter of Heage veld De Kol.

BROWN BROS., - - LYN, ONT

RIVERVIEW HERD

Offers bull ready for service. Sire, son of King of the Pontiac; dam a daughter of King Segis with over 22 lb butter at 3 years and 5 months. P. J. SALLEY, LACHINE RAPIDS, QUE

GLENSPRINGS OFFERS

Six fine pure bred bull caives from to 10 weeks old. Every one from an cially tested dam. Color markings to every taste. Those that wish Henge blood secure one of Count Gerben's every taste. Those that wish Hengere blood secure one of Count Gerbon's so Those that wish Carmen Silva and Al Posch blood secure one from Inka Silv Beets Posch. Prices moderate. E. B. MALLORY, FRANKFORD. ONI.

FAIRVIEW FARMS HERD -HAS FOR SALE-

breed living or dues the youngest buil of the breed to sire at b. daughter.

b. daughter.

We also offer sons of Rag Apple Ker dyke, whose dam Pontiac Hag Apple Ker dyke, whose dam Pontiac Olothide!

Kol 2nd, 37,20 'wo Pontiac Olothide! Kol 2nd, 37,20 'wo Pontiac Olothide! Kol 2nd, 37,20 'wo Pontiac Olothide! Kol 2nd, 37,20 'wo Pontiac Olothide Colothide Colothide

sons of Sir Johanns Colontha (Ind.).

son of the Johanns Colontha (Ind.).

Hengerveld De Kol. 118 A.R. Gaghter of
Hengerveld De Kol. 118 A.R. Gaghter of
Land of the Colontha Near Prescott, Ont. Lawrence Co.

LAKEVIEW HOLSTEINS

Three bulls fit for service and service bull calves. All sired by Count Heage vold Fayne De Kol, most of them from 4. B. O. dams with record up to 24 lish isster in 7 days. Write for descriptive as

alogue. E. P. OSLER, Telephone.

HOLSTEIN CATTLE

THE MOST PROFITABLE DAIRY BREED Illustrated Descriptive Booklets Free
HOLSTEIN-FRIESIAN ASS'N OF AMERICA
L. HOUGHTON, SECY, BOX 149, BRAYTI PROPERTY

"LES CHENAUX FARMS" VAUDREUIL, QUE.

HOLSTEINS-Winners-in the ring as at the pail. Gold Medal herd at Ottan Fair. They combine Conformation and Pa They donotion.

Bull and Heifer Calves from our visualist and Heifer Calves from our visualist and the control of the calculation of the calculati DR. HARWOOD, Prop. D. BODEN, Mail t of the week by finished stock wi as delaged. There secured for securing for securin her cattle, 85.30 to 85

to medium, 85.25; cann steers, \$5.25 in milk cows selling at 8 825 to 850; ade in sheep and quoted at \$6 to bucks and culli quoted at \$350 ve hogs are stea with a liberal d ket bring \$7.65 () f.o.b. shipping b. shipping ure of the tr has been t with demand equal to

NTERNAT GAL

THONALG

CURES While Hor

International Gall quick and infallible our Sore Backs, Sore Mouth etc. Will not melt an mal heat, but stays rig Possesses extraordinary qualities, internation noney if it ever fails to and as it is almost a d

25c, and 50c. INTERNATIONAL ST TORONT

> PIGS & WAN

Farm an would like to p

shire Boars, C Boars, Ayrshir ves, and Holste ves from 6 to Write Circula

FARM AN Peterboro, -

giving prices of ani

LOW COST, B THIS SIZE SPACE THIS SIZE SPACE cents per insertion in of Farm and Dairy, giving small advertis tages as users of larging the confusion dis 2 cents a word per for For Sale and Was

OUR ADVERT

/ORK

783

week by the large numbers of stock with which the market the week by the large numbers of the detock with which the market hard. There were practically no secured for the market secured for the large-secured for the large-test and the large-test quotations are as follows. \$556 to \$5.90; bulls, \$450 to \$4.00; \$456 to \$5.90; bulls, \$450 to \$4.00; there cows, choice, \$45,0 to \$4.00; there cows, choice, \$45,0 to \$4.00; to medium, \$2.40 to \$4.25; bulls, \$5.32; canners, \$1.50 to \$2.00; terrs, \$5.25 to \$5.90; stockers, \$4 \$4.00; the large terrs, \$4.50 to \$5.00; deluzed. \$4.00 to

iedinc steers, \$5.25 to \$5.59; stockers, \$4
frade in the cows is very dull, choice similar selling at \$60 to \$70; common to warmer of the common to the comm ade in small meats is fairly active

with demand equal to supply. Sheep sell

INTERNATIONAL GALL CURE



SOLD ON A SPOT CASH GUAR-ANTEE

CURES While Horses Work or Rest

International Gall Cure is a certain, sure, international dail of his also rean, sur-quick and infallible ours for Galls, Sore Necks, Sore Backs, Sore Mouths, Cuts, Bruised Heels, etc. Will not melt and dissolverfrom the ani-mal heat, but stays right where it is applied. Possesses extraordinary healing and southing qualities, International Gall Cure is the quantes, most anti-eptic, purest and best Ga Cure on the market. We will refund you money fit ever fails to cure. Keep a box o hand as it is almost a daily need on the farm.

25c, and 50c. At all dealers. INTERNATIONAL STOCK FOOD CO., Limited TORONTO, ONT.

PIGS & CALVES

WANTED

Farm and Dairy would like to purchase York-shire Boars, Chester White Boars, Ayrshire Heifer Cal-ves, and Holstein Heifer Cal-ves from 6 to 8 weeks old.

Write Circulation Manager FARM AND DAIRY Peterboro, - - Ontario

giving prices and ages of animals

LOW COST, BIG RETURNS THIS SIZE SPACE (one inch) costs seems per insertion in the display columns required to the control of the cont

OUR ADVERTISERS FIND

calves, \$3 to \$6 each according to size and quality. MONTREAL HOG MARKET.

Montreal, Saturday, Aug. 55.—The mar-et for live hogs opened firm, with prices lvanced over the quotations current last advanced over advanced over the quotations current last wack. due to the scarcity of supplies and the good demand, but with the increased offerings toward the close of the week prices caused off and selected lots weighted off cars were sold at \$7.57 to \$7.55 a.c. w. There was a good demand for dressed hogs and fresh killed abbatoir stock sold at \$1.50 to \$1.55 a.c. w.

EXPORT BUTTER AND CHEESE. This week's trade in chose for export has not been as lively as during the two or three weeks previous and cable advices from the other side would indicate that this is due to extremely high prices current—which are interfering very much with the demand for this article of food, which was not been added to the country during the past week being from one cent to one cent and a half above the prices current during the corresponding week a year ago. The present prices would not be prevailing if it were not for the great decline in the output tricts is 25 to 30 per cent. less thus it was last year, due to the protracted drevell of weekler. The receipts this week into Montreal are fully 15 per cent. less thus they were a year ago, and unlies EXPORT BUTTER AND CHEESE.

into Montreal are fully 15 per sent, less than they were a year ago, and unless we have roin generally we must look for asnall make this full, which will help to maintain prices at a high level.

The sent of the maintain prices are a high level.

The area department season having been reached this week when 26 as 1b. at factories has been paid. The trade is meeting with a good demand from England, came of the present high prices ruling, came of the present high prices ruling.

Cuterage MADUETS,

Watertown, N. X., July M.—7,800 at \$13-16.

12c. **Soutras!, July 31.—189 boxes of butter:
-Il sold at 231-2c.
S'irling. Aug. 1.—860 boxes boarded; all

amphellford, Aug. 1.—Cheese boarded.

13.5-16c.
Vankleet Hill, Aug. 5.—1,303 boxes of white and 181 boxes of colored cheese boarded. The price paid was 12.1-4c to

19.546.

Rrockville, Aur. 3.—2.729 colored and 785 white offered: 40 colored sold at 12.146. IE-1545 refused: 13.380 offered 45r co; cured, but was refused.

Kineston, Aug. 3.—Cheese sold at 12.3-8c to 12.58c; 1.160 boxes of white and 175 of colored boarded. 4.337 white and 515 colored boarded, and 4.337 white and 515 colored cheese boarded, sold at 12.546c. Xingnes, Aur. 5.—60 white and 975 colored cheese boarded. 8 gales, 12.546c to orded cheese boarded. 8 gales, 12.546c to

12.1-de. Winchester, Aug. 4.—339 colored and 624 white registered: 12.1-de offered; none sold. Napanee, Aug. 4.—610 white and 775 colored, selling at 12.1-de. Picton, Aug. 4.—5.278 boxes; 1,553 sold at 12.3-de and 511 sold at 12.5-leg. Brantford, Aug. 4.—75 cheese; 455 at 12.3-de and 511 sold at 12.5-leg. On the selling at 12.1-de. 12.3-de. 12

ctoriaville, Que., Aug. 4.-200 boxes sold

at 119-8c.
Kemptville, Aug. 4.—828 boxes boarded;
187 boxes sold for 121-4c.
Cornwall, Aug. 4.—1,411 boxes of cheese;
all sold; white at 121-4c, colored at 123-8c.

all solid within the first and the first and the first and first a

AYBSHIRE NEWS
The minutes of the Annual and Directors' meetings of the Canadian Ayrshire Breeders' Association, together with
a scale of points, rules and regulations
for Record of Performance work, and
some super-fine illustrations of noted individuals in the Ayrshire breed individuals in the Ayrshire breed together
the interest of the Ayrshire breed Coples, to be had from the secretary, W.
P. Stephen, Hantingdon, Que.

HOLSTEIN-FRIESIAN NEWS

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

HOLSTEINS ACCEPTED IN THE RECORD

ROLSTEINS ACCEPTED IN THE RECORD
OF PERFORMANCE
Summer lind Countess (2971, two-year-old slass rise, and the counter state of the count

in milk, 365. Owned by Lakeview Farm. Bronte, Ont.

(19)

Bronte, Ont.
Angio DeKol Witzyde (648), mature
class; 13,709,75 lbs. milk; 48,79 lbs. fat;
average per cent of fat, &5c; number of
days in milk, 335 Owned by J. M. Van
Patter, Aylmer, Ont.
Anagie Mercedes (7687), three-year-old;
1244375 lbs. milk; 475.56 lbs. fat; average
per constant of the control of th

milk, 365. Owned by J. M. Van Patter, Aylmer, Ont. Dandy DeKol Isabella (7695), three-year-old: 9,783.95 lbs. milk: 281.6 lbs. fat; aver-age per cent. of fat, 2.85; number of days in milk, 332. Owned by F. I. Burrill, Hol-

brook, Ont. Polly Woodland DeKol (10390), two-year Polly woodland Dekol (1999), two-year-old; 9,433.15 lbs. milk; 302.64 lbs. fat; aver-age per cent. of fat, 3.20; number of days in milk, 365. Owned by S. M. Peacock, Mt. Salem, Ont.

Satem, Ont.
Patsy 4th's Axie DeKol (9739), mature;
13,446,56 lbs. milk; 453.33 lbs. fat; average
per cent. of fat, 3.37; number of days in
milk, 315. Owned, by Thos. Hartley

milk, 345. Owned, by Thos. Hartley Downsriew, DeKol (9509), two-year. Korndyke Wayne DeKol (9509), two-year old; 10,032 bis milk; 486,70 bs. fat; average per cent. of fat, 3.73; number of days, in milk, 340, Owned by J. W. McCormick, Morewood, Ont.

Georgie (5742), mature: 12,299.27 lbs. milk-393.74 lbs. fat: average per cent. of fat, 3.21; number of days in milk, 341. Owned 393.74 is.
3.21; number of days in missions Corners, by J. B. Arnold, Easton's Corners, G. W. CLEMONS, Secr

Life is short. Why be slaves and carry water all your life?

At a very small cost, and with an ordinary Pipe Wrench, you can have the water brought into the house and out again; no plumbers needed, a few hours spare time will do; then water in your barn will pay for itself the first six months and will earn more than its cost every year afterwards.

Saves Time and Labour Every Hour of the Day

We have now ready to ship over 450,000 feet of Pipe just taken out of some large buildings that are being dismantled.

This Pipe is suitable for Water, Steam, Fencing, Drains, Green-houses, Columns, and Supports in Buildings, Stanchions, Irrigation Purposes, etc., and is as good as new, except a slight difference in appearance. Every foot is carefully inspected before shipping.

Note These Cut Prices and Send Your Orders

Delivered free on cars here. Other sizes up to 10 inches.

Send us a list of the lengths you need, and we will give you a special low price on the lot, cut and threaded and put together with fittings.

We also have enormous quantities of Wire Fencing, Belting, Pul-leys, Shafting, Cable, Rails, Rööfing, Saws, Vices, Forges, etc., at 25 per cent to 75 per cent. less than regular prices. Catalogue sent on request,

THE IMPERIAL WASTE & METAL CO. 65 Queen Street, MONTREAL

THE HOUSE FOR BARCAINS AND SATISFACTION

******************************** BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted unner two...

during twelve months.

during twelve months.

AURINIA-RISORRENI SPA- VORSHIRE AND TAMWORTH HOGSBENEFACE ROCK and Organization Fowle-A card accepted under two lines, nor for less than six months, or 26 insertions

DR. LEE'S COMPOUND ABSORBENT SPA-VIN BLISTER—Cures. Scientifically cor-rect. Write The Absorbent Spayin Blist-er Co.. Toronto, Ont.

HAMPSHIRE PIGS—Canadian Champion herd. Boar herd headers. Sows three months and under.—Hastings Bros., Crosshill. Ont.

COMPANIALE HORSES SHORTHORN CHARLES AND THORN CHARLES AND THE CHARLES AND TAME WORTHS. "Country to the Charles and Umporters, Columbus Ont. EDGEMONT HOLSTEINS AND TAME WORTHS." Young stock for sale, Quality good, prices reasonable.—George H. McRennis Thornhill, Ont.

CLYDESDALES—Home of Acme. (Jmp.) Holsteins—Home of King Favne Segis Clothidle, nearest 7 dams 27 bbs. butter ner week, and Broken Welsh Ponies. R. M. Holtby, G. T. R. & P.O., Man-chester, Out. Myrtle, O.P.R.

YORKSHIRE AND TAMWORTH Plymouth Rock and Orpington Fo Dynes, 454 Parkdale Ave. Ottaw

SUNNYSIDE HOLSTEINS-Young Stock all ages.-J. M. Montle & Son, Stanstead.

Quebec.

HOLSTEINS AND TAMWORTHS—All ages
also S.C.W. Leghorns. Young stock for
sale at any time.—J. McKenzie, Willow
dale. Ontario.

dale. Ontario.

TAMWORTH SWINE—Choice stock for sale at all times at reasonable prices, Correspondence invide—Wm. Keth & Correspondence invide—Wm. Keth & Wines & William & Will



You may win a prize by doing so

CPPOSE your friend Bob Wilson, on the next concession. "pulled up" at your front gate on the way back from market and asked you about that silo or barn foundation you built, you would be glad to tell him, wouldn't you? And it wouldn't take you long either, would it? And, as a matter of fact, you'd find as much pleasure telling him as he would in listening-isn't that right?

First, you would take him over to view the silo or barn foundation. Then you would start to describe it-its dimensions-the kind of aggregate used-the proportions of cement used-number of men employed-number of hours' working time requiredmethod of mixing-kind of forms used-method of reinforcing, if any-and finally, what the job cost. So that by the time you finished, neighbor Wilson would have a pretty accurate idea of how to go about building the particular piece of work which you described.

Now, couldn't you do the same for us, with this differencethat you stand a good chance of getting well paid for your time?

In Prize "D" of our contest, open to the farmers of Canada, we offer \$100.00 to the farmer in each province who will furnish us with the best and most complete description of how any particular piece of concrete work shown by photograph sent in was done. The size of the work described makes no difference. The only important thing to remember is that the work must be done in 1911, and "CANADA" Cement used.

In writing your description, don't be too particular about grammar or spelling or punctuation. Leave that to literary folk. Tell it to us as you would tell it to your neighbor. What we want are the facts, plainly and clearly told!

Sounds simple, doesn't it? And it is simple. And surely it is well worth your while when you think of the reward in view.

Now, sit right down, take your pen or pencil-fill out the attached coupon-or a post card if it's handier-and write for the circular which fully describes the conditions of this, the first contest of the kind ever held in Canada.

Every dealer who handles "CANADA" Cement will also be given a supply of these circulars-and you can get one from the dealer in your town, if that seems more convenient than writing for it.

Contest will close on November 15th, 1911-all photos and descriptions must be sent in by that date, to be eligible for one of these prizes. Awards will be made as soon as possible thereafter. The decisions will be made by a disinterested committee, the following gentlemen having consented to act for us, as the jury of award: Prof. Peter Gillespie, Lecturer in Theory of Construction, University of Toronto; Prof. W. H. Day, Professor of Physics, Ontario Agricultural College, Guelph; and Ivan S. Macdonald, Editor of "Construction."

Having decided to compete for one of the prizes, your first step should be to get all the information you can on the subject of Concrete Construction on the Farm. Fortunately, most of the pointers that anyone can possibly need, are contained in our wonderfully complete book, entitled "What the Farmer Can Do with Concrete." A large number of Canadian farmers have already sent for and obtained copies of this free book. Have you got your copy yet? If not you'd better send for it to-day. Whether you are a contestant for one of our prizes or not, you really ought to have this book in your library. For it contains a vast amount of information and hints that are invaluable to the farmer.

Canada Cement Company, Limited, Montreal

Address