

FARA AND DAIRY

Old

New

May the bells of 1916 ring in a year of happiness and pros-perity to our many friends and users of the

"SIMPLEX" Link CREAM SEPARATOR

AND-B-L-K MECHANICAL MILKER +

The New Year is the season for forming new resolutions. You cannot form a better, nor one calculated to save you more time, worry and money than to install a **B.L.K. Milker** and "**Simplex**" Separator in your dairy. You will find them your greatest money-makers and money-savers throughout 1916. Let us send you the testimony of satisfied users.

Whatever your dairy problems are we can "solve" them. Write us for literature and information how to make 1916 the most pros-

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

perous year in your experience.

Of absolute Reliability



Votes for Women

H. Percy Blanchard, Hants Co., N.S. II. Perp Human, state of characteristic of the set o LADY a few days ago demand-

Wernen Men as a rule are more interested in their party than in its principles. Party to them is a sort of religion. To be loyal to their party is almost like being loyal to. their dountry i in fact, there may be men who would risk their computers uniform would like being loyal to direft cloader, in fact, there may be men who would risk their country's welfare. White than have their party suffer. White a man irom principle deserts his party, he is called a traitor, a turn-coat, any evil name to show the con-tempt in which he is held by his pre-vious associates. Through far of a solution of the solution of the top party rule; and it is "born a tory of party rule; and it is "born a tory to give the women a worte; can they be so casily driven? Let some question like temptace, or social reform, some matters in which the women are really interested come

The give ne women a vice some they be a casily driven? Let some question like temperance, or social women, some matter in which the women are really interested come up, and are really interested come the women a vole; will the to give the women a vole; will the to give the women a vole; will solve the the start of the to give the women a vole; will deletion is on, they will different to hostile campa; and each side wo into a sole campa; and the side wo

it. If the women had a wote, there is a fairly well grounded fear that everything would have to be done straight and honest; or the women-folk would imm the trates; and if there is no boodle, no rake and if there is no boodle and

Then consider seain Mr. Gray. He has always "consistingly supported the party." He has voted right, through thick and thin. So when the rewards come, he surely must be remembered. But suppose Mrs. Gray and a couple of dauptiters have a vote. The opposition candidate parts

Janiry 6, 1916

his hair in the middleand has such

Feeding Corn Fodder

Recenting Course Fouriers THIS year our core area will exception. This year our core and four even of it could not be available to the allo. How can this fodder be fed to this will. How can this fodder be fed to the set of the set of the fed corn fodder before mark waste of but there was always a her up the site. but there was always a her waste of walks with we would like to avoid. C. E. Dufferin Co. Ont.

when the when we would like to avoid-t. E. Duffers C. Out. We can answer this question no better than by giving in detail two different methods followed by two different dairy farmers in Ontario, on the second second second second power and a corn cutter. The several acres of corn in the shock. The several fortunate in having hydro-years fortunate to short lengths and blowr in cut into short lengths and blowr into a those her the sait being sprinkled to short lengths and blowr for 24 hours before flowed to stand for 24 hours before flowed to stand time the moisture of the box had penetrated to the dryve follow had penetrated to the dryve palatable fo the was an mixture very palatable for the was a mixture very palatable for the was a followed to twas opened. An entirely different plan was fol-

tim of feeding was followed units one.e. The second secon

A new milk cow is a mother and will a new more shown in a mount and win worry about her young one in a way that mothers have. The calves should be far enough away that they cannot be heard in the dairy stable.

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As lam "An add: Guelph, Or 5680

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W. D. JACKSON, Secretary CARP, ONT. A FEELING OF SECURITY **GILSON ENGINE** "GOES LIKE SIXTY" Then consider again Mr. Gray. He A mechanical masterpice of the highest type, with our im-proved simple methods of cooling, governing and sparking, Positively guaranteed, higgest value. All sizes. Save money, Ask for catalogue and prices. GILSON MANUFACTURING COMPANY 7 York Street, Guelph, Canada 33 10



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has such d dances really"; r. Gray's oting for tle votei t in nra-Propos nary of ne back rol the re swing

tion tail two by two Intario in the n. Las th Co. several y were electric e corn blown ch day fodder in al-being . The stand tha had the he reclean SYSuntil was

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ewe to meet the extra drain on the system In addition to supplying the necessary food and water, there is still another thing that is necessary-exercise. Breeding ewes must have exercise or there is almost sure to be trouble with weak lambs. In parts of Gntario where the snow does not get very deep, the flock would get sufficient exercise if they were allowed the run of a small field at will until about March 1st, after which time they should be kept in the yard and not allowed to taste fresh grass, until turned out on pasture. A very good plan is to make a moveable feed rack and place it at the far side of the yard from the pens, then feed the noonday meal in this rack, and the sheep will get sufficient exercise tramping back and

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pen.

forward, and strong, vigorous lambs should be the result. As lambing time approaches, if it is before

siasm on a subject that so few are interested

in as is the case with sheep. Yet if time would

permit I think I could convince anyone who would

lay all prejudice aside, that there is more clear

money to be made at the present time in keeping

a small flock of sheep as a side line on every

farm than there is in any other class of stock

(profitable as they are) when we consider the

cost of stock, cost of labor and cost of housing;

yet we find the sheep industry at a very low ebb,

perhaps scarcely holding its own in Ontario, as

far as numbers are concerned, but as I am to

discuss the fitting and marketing end

of the game, I must leave the whys

and wherefores for some other time.

We will first take up the question of

The flock should come in off the

grass in good flesh. They should then

be supplied a liberal daily ration of

clover, alfalfa, pea straw, bean straw,

etc., which, along with three or four

pounds of turnips or other roots per

head, should bring the flock through

in good shape until a couple of weeks

off lambing time, provided they have

access at all times to salt and sul-

phur, which should be kept in a small

trough nailed up on the side of the

within reach; it is true that sheep

will quench their thirst with snow,

but they prefer water. If no roots are

available, one-half pound of oats a

day will greatly assist the in-lamb

Fresh water should also be

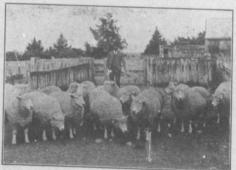
wintering the breeding flock.

"An address at the recent Provincial Winter Fair,

R. H. Harding, Middlesex Co., Ont., Outlines His Management of the Breeding Flock and the Market Lambs grass, it is wise to increase the grain ration a trifle to ensure plenty of milk and save the shepherd many worries. Dry, airy pens are much to be preferred to hot, stuffy basement pens. A tightly boarded shed, with a wide opening to the south, dry and free from draughts, is all that is required until lambing time, and unless we are breeding for a special purpose, such as raising purebreds to sell as breeders or for the early winter or Easter market, I think a man is farther ahead if he has his lambs dropped about May 1st, just when the ground is warming up, when the fresh grass will produce plenty of milk. The ewes

Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land,-Lord Chatham.

PETERBORO, ONT., JANUARY 6, 1916 The Profitable Production of Mutton on the Farm



Woolly Money-Makers in Far-Off New Zealand

p occupy a far more important place in the agriculture of New Zealand than do in Canada. The flock illustrated are of the Borney breed, which originated ingland, but has never sensed favor in Canada. These azimals constitute a part of the breeding flock of & Short, Parcangt, N. Z.

should be shorn unwashed about April 10th, before they get out into the fields to rub their wool out on fences, etc., and before the natural accumulation of dust and dirt (for which the wool buyers make due allowance in their own interest when buying unwashed wool) is washed out by spring rains.

Leaving the wool on sheep until late in May or June, is not only punishment to the sheep, but is wasteful of both labor and wool. It is also the cause of great loss among lambs from woolballs in the stomach from sucking wool.

Dipping and Castration

The flock should be dipped in the fall to clean them of vermin. If they are shorn thus early and the lambs are dipped about a week afterward, practically all the ticks are captured. The next simple operation is to dock all the lambs, which

should be done when they are three to seven days old. A large proportion of the lambs still go to market undocked. Cast ating is next in order, and certainly all male lambs being kept longer than three months should be non-sexed. Wether lambs will finish better and make fully 10 per cent. greater gains than ram lambs under the

No. I

same care, and will cause no trouble in the flock. The farm crops should be so arranged that a plot of second growth clover or rape is available on which to wean the lambs when they are three and one-half to four months old. If such cannot be arranged, right into the corn field is the

next best place, and very little will happen to the crop. It is an excellent plan to go around the fences now (if it has not been done before) and dig out any stray burrs, as the lambs are sure to find them, the consequence heing an unsightly animal and a damaged fleece and a smaller price. Good pasture should be provided right along until winter so as to keep the lambs thriving ; if they once lose their baby flesh, they will never replace it with the same good quality again.

In the past, I have been an advocate of finishing the lambs, thoroughly, by feeding them for a couple of months in winter quarters, and prices for several years have warranted such being done. Yet, while I am still an advocate of putting them into the market in the very best form, with our best market now around \$9.75 a cwt., and pressure being brought to bear against the heavy lamb, I wouldn't like to advise the man (whose lambs are ready now) to hold them. As to the condemnation of the

heavy lamb, is it real or only imaginary? While we are ready to admit that the big heavy lamb may be slightly coarser in texture than the lamb of the smaller breeds, I an doubtful if the taste of the average consumer is so finely cultivated that he can detect any material difference. I would rather be inclined to believe that the practice of selling to the housekeeper, almost anything that grows wool, as lamb, regardless of how long since, has caused the housekeeper to demand the lightest that can be had, feeling certain that by so doing they will surely get lamb

The lamb properly grown up to 125 or even 140 pounds weight is better food than the same lamb marketed at 90 to 100 pounds weight, and should be consumed without any waste. I mention this to discourage the marketing of heavier breeds

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FARM AND DAIRY

in an unfinished condition simply to be within the desired weights to command the top prices. There is no doubt, however, that there will continue to be preference for handy weight, well finished stuff, and the way for the heavy lamb producers to get into that class will be to commence

to feed their lambs for the market a couple of months younger than is necessary with the smaller breeds. If the markets warrant it, lambs will make better and cheaper gains during the fall, if provided with plenty of rape and clover pasture, than they will during winter. If the fall

markets are slow and the lambs unfinished, it will pay to feed until after the New Year. To do this, it will cost from .03c to .05c per head per day, varied according to the local market values of the foodstuffs provided. Due allowance should also be made for the fort lity returned to the land.

All Around the Dairy Farm

Value of Roots in the Ration

"HE great value of roots for milk cows, even in combination with corn ensilage, was demonstrated at Macdonald College, Quebec. When one-fourth the ensilage ration was replaced by roots, the cows gained in milk yield five per cent. When one-half the ensilage ration was replaced by roots, the gain in milk was eight per cent.; but when 75 per cent, of the ensilage ration was replaced by roots the milk yield fell off three per cent. All of which goes to show the great value of roots in the milk ration. It also shows the value of a portion of ensilage in the ration, and that the dairyman who provides his cows with both roots and ensilage is doing the very best.

At the Macdonald College, situated near Montreal, they can grow 30 to 36 tons of roots per acre, while the yield of corn is 12 to 15 tons. As they have found, by years of experience in feeding, that roots are slightly more valuable, ton for ton, than ensilage, and as they can grow more than twice the weight of roots per acre than corn, the College authorities strongly urge the growing of roots, not instead of corn, but in preference to corn, or better still, in combination with corn ensilage.

Feeding the Winners

"B UT don't these big cows eat their heads off?" is a question that is asked 100 times a day by visitors to the Dairy Test.stable of the Guelph Winter Fair. The question is asked so often that the answer may prove interesting. Here are the rations of a couple of the outstanding cows of the test:

Colantha Butter Girl, the sweepstakes cow, owned by M. H. Haley, did not get over 12 pounds of meal during the test. The meal was a combination of oat chop, bran and a handful of oil meal. In addition, she ate about 60 pounds of mangels a day, a little ensilage, and an ordinary ration of alfalfa hay and second growth clover.

Highland Ladoga Mercena, the cow that produced the greatest amount of milk during the three days of the test, owned by Jas. Currie & Son, Ingersoll, ate 24 pounds of grain a day, getting equal parts of oat chop, bran, oil cake, and cottonseed meal. In addition, she ate 60 to 70 pounds of turnips, about a bushel of ensilage a day, and all the alfalfa hay she wanted.

If the milk of either of these cows were valued at current prices and what they had eaten at current prices, it would be found that each of them returned a big profit on their day's work-as much profit a day as lots of small eating cows, sometimes mistakenly called "good feeders," make in a week.

Milking Machine Solutions

"HE milking machine promises to solve to a certain extent the labor problem on the dairy farm; in this, it is a blessing. In some respects, however, the machine may be a menace, and, unless it be properly handled, there is a chance that the cheese factories of the land will be receiving worse milk in five years from now than they are now, and this deterioration due to mechanical milking.

Should Women Milk? The milking machine will produce clean milk; many dairymen in Canada have proved this to their satisfaction. But if the milking machine is to give universal satisfaction, the question of cleaning and the selection of solutions in which to keep the rubber parts of the machine

must be given more consideration than they have received in the past. Prof. Lund of Macdonald College recently took samples of solutions in which rubber parts were being kept on dairy farms, and in the cleanest of all the solutions sampled, there were 4,000 bacteria per cubic cen timeter, and one solution actually had 110,000,000 bacteria per cubic centimeter. And yet this was called a sterilizing solution ! At a recent meeting of Western Ontario factory men, Prof. Lund spoke on milking machine solutions as follows:

"Water itself is not good. A good solution must be a germicide. Lime water and sait solutions have been extensively used. Salt has not proved satisfactory. Lime water is better, but it is difficult to get fresh unslaked lime. Slaked lime is useless for the purpose. We have found Wyandotte Cleanser used in making sterilizing solutions, but even the makers of Wyandotte will admit that it is useless for this purpose.

"Our most satisfactory results have been got from chloride of lime. This is a cheap and good germicide. We mix in the proportions of one pound chloride of lime to 100 pounds of water, and use the clear solution only, and change it every two weeks."

Prof. Lund questioned if the busy farmer would give the proportion of his solution the attention that it deserves, and suggested that factory men buy full strength chloride of lime in large pack-

ages at wholesale rates, and make up the solution fer their patrons. Prof. Lund advanced this suggestion, of course, only to factory mon in districts where a considerable number of milking machine; are in use.

Experiments With Corn

EDITOR, Farm and Dairy,-It may be of inter-est to some of your readers to learn the result of our own tests with corn, carried out under the supervision of Mr. H. R. Hare, B.S A., District Representative for Halton. The corn, consisting of seven varieties, was planted in a heavy clay loam, which was a clover sod, plowed in the fall and manured during the winter, with a mixed manure, at the rate of 12 tons per acre, the corn from the butts and tips being sown separately from the bodies, and the whole planted in oneeighth of an acre lots, in hills 36 by 42 inches. The corn was planted on May 27th and harvested September 27th.

On cutting and weighing the whole op of each variety separately, I found that the tips and butts gave nearly the same yield as the body of the corn. I then thoroughly dried samples of shelled corn, which I tested for germinating powers, and tabulated my results as follow, on a basis of the yield in pounds per acre:

Variety	R. of Lik Yes.	s. of cobs.	19	ann' ter
Compton's Early Wisconsin Longfellow Baltzer's N. Dakota Bailey Wh. Oap Yellow Dent Golden Glow	12912 12912 . 9312 . 9312 . 9784 . 7240 . 8164 . 6800	7488 7488 5616 2616 5616 5616 5616 55616	20400 16800 16120 15400 13600 13800 12160	807.887.888 Ger

Lakeview Farm, Bronte, Ont.

Profits (?) From Average Good Cows

"H AVE you ever figured your cows as a business proposition in a business-like business proposition in a business-like way?" This question is asked by Edgar S. Archibald, Dominion Husbandman, in a circular got out from the Central Experimental Farm, Ottawa. Mr. Archibald then submits an estimate based on a herd of 24 average good grade cows producing pure milk (not certified). His figures are as follow:

- . 8 52 21
- as Tollow: Coost of feed for cow giving 5.727 lbs. milk....8 parcers, housing cove and feed (450 per cow) instrumence, etc. 30 per cent. hepping Value of cow (65.09 per gende cov) bepreciation at 19 per gende cov) value of cook dairy implements, etc. per cow Value of took dairy implements, etc. per cow Value of took dairy implements, etc. per cow 4 50 3 3 90 6 50 (5.0); Interest and depreciation on same at 50 per ci. 6. Value of brushes, aprons, towels, ics, record sheets, scap, veterinary supplies, etc. 6. Ocst of pure-bred bull, per cow (including 6 per cent: informs of 35500 and maintenance) 7. Care of cow and milk for year, men at 16 cents per hour 50 1 00
- 3 00 30 50 Total cost per year 8102 11

Or total cost per 100 lbs. milk Value on her fill 2017 TO COW. Chemical value of manure. Is tons in 868 days at 235 when well kept and well applied humme value of manure 606 days Humme value as manure. Bedding not calculated as it is worth its aver-age estimate as manure. 1 78 68 70 22 50 22 50 5 00

Total oredit per year 118 70

Profit not considering mortality and other risks, per cow 16 59



January 6, 1916

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Echoes from the Lecture Platform at Guelph

Marketing Live Steck J. J. Ferguson, Chicago Ill.

FTER many years of observation. I am A FTER many years or overland the world competitive market is the best place in the world to sell live stock. I am not here to boom any particular market. I am going to take the one I know most about as an illustration. At the Union Stock Yards, Toronto, there

are buyers for c number of packers and butchers. There are buyers there for shippers and exporters. When your stock arrives it should be promptly unloaded. It should be rested and fed and watered.

As to whether you should sell your stuff personally or consign it to a commission man, there is a very great difference of opinion. One thing I would do if I had a car of stock shipped to Toronto, I would take the time to come in and see that car of stuff sold. I would consign it to a commission man. Why? Recause he is your hired man; he is your agent for the time being. He knows all the ins and outs of the market and knows the buyers and knows the supply and demand. You go to the market once in six months. What do you know about the game?

The other fellows are there every day in the year. My advice is to consign your stuff to a commission man and then come in and see it sold. If your stuff sells for 15 to 20 cents a hundred less than other lots shipped at the same time go along with the buyer and find out why your stuff sold for less, and the next time try and have that little extra finish or uniformity that will give you the highest price for your cattle.

I think that is one of the things in which we have been a little careless. I know that down home in Leeds county some of the farmers are feeding the same kind of cattle and in the same way that their grandfathers fed them fifty years ago. There have been great advances in the West.

Give What the Market Wants

I don't believe you people keep close enough to your market. I don't believe you know what the packer wants. While it is a nice thing to be master at home, when you get to the market you have got to supply what that market wants and you must take the price which that market will What is the packer? He is pay. merely the middleman; he is the manufacturer. The packer does not eat all the beef, mutton and pork that comes to the market. He takes the live animal and manufactures it into the finished product and that goes to the consumers of the world. When the housewives of Ontario say they want lamb chops from lambs weighing 75 to 85 pounds, then you will find that that kind of lamb will bring a good deal more money on the market than heavy lamb. Then

it becomes a question of whether you want to _ get in line with the market and supply that kind of lamb and not the heavy lamb.

In the cattle, we have to do the same thing, What is required is a well trimmed steer weighing from 1,000 to 1,050 pounds. Occasionally somebody wants a heavier cattle to go to the New York or Boston market, and they will pay

a little extra for them, but that is a temporary market. The market you want to cater to is the large steady market. The day of the heavy fed ox has gone by. We no longer want the heavy beef weighing from 1,500 to 1,600 lbs.

I have seen at the Toronto Stock Show some heavy steers that weighed 1,700. They are white-elephants on the market. They are cov-



In the Rich Corn Belt of South Western Ontario.

The second secon

ered with great daubs of tallow. Why that stuff ed is thrown in the rendering tank. You cannot sell pure tallow to anyone to eat. If you will follow the advice given by the experimental stations and our best practical feeders, and finish your cattle early, they will give you the best returns. If you bring them to the market in light weights all covered with good eatable meat, you > will find that you will get the top market price.

The Outlook for Sheep

H. S. Arkell, B.S.A., Live Stock Branch, Ottawa T may be a surprise to some that the exportation of sheep for the months of September and October, 1914, aggregated 47,000 head. Or-



An Angus Steer That Sold for \$690 as Beef. This is "We Maddregor," champion beef steer at both Guelph and Toronto, posing for his last photograph. He was notid to the T. Eaton Co., for \$998, and dressed over 1,000 lbs.

dinarily, such surplus as Canada has had available during the fall months, has gone into cold storage and been placed on the market for consumption during the winter and spring months. We have been informed that, at present, very few sheep or lambs are hung in Canadian cold storages. Our surplus has gone across the line into the New England market. This

export trade has held up the price during the past months to an unprecedented level for the period and it may be expected that lamb will be a dear commodity before spring.

That Canada, with her small sheep population, should have any curplus for export reveals definitely the shortage and high price of small meats in the North American contin-

ent. The present situation is so plain that he who runs may read. Taking into consideration the cost of production, it is doubtful if any more profitable animal than the sheep can now be kept on the Ontario farm. I cannot but recommend the advantages of sheep raising, and feel justified in pointing to the profits that may be obtained in that industry

Feeding Hogs for Market *

Prof. Geo. E. Day, O. A. C., Guelph, Ont. OUESTION if it ever pays to keep hogs on a maintenance ration and then finish for market by heavy feeding in the last few weeks. My conclusion is based on the fact that young animals will make cheaper gains than older ones and it pays to hustle them right from the start. In experiments that we have conduct

the following Weight.		results	hav	e be	een	obtained :	
54	to	82			near	per	100 lbs. gain 310
		115					
115	to	148					438
140	10	170					455
hese	figi	Tres	show +	ten in			

e more economical returns from feeding the younger animals.

In another experiment at Guelph we had pigs, fed on meal and water alone, make 100 lbs. of gain on 290 lbs. of meal. It just happened that these were particularly good pigs, but the result goes to disprove the common claim that pigs cannot be fed at a profit without skim milk, but a good substitute for it found in some

of the best brands of tankage. And I would emphasize the fact that tankage is a food, not a tonic.

Pasturing Market Hogs

I would always supplement the best pasture with grain feeding and I do not believe in letting pigs have too much range when they are intended for market. They can be put on pasture at 100 lbs, weight. Red clover is one of the best pasture grasses for pigs. Alfalfa is better for the pigs than the pigs are for the alfalfa. Here is a pasturing plan that we find good.

Divide the hog pasture into two equal plots. Plow one-half in the spring and sow to grain seeded down with clover. Cut the grain early for hay or green feed and in a short time there will be good pasture available for the pigs. This same field will afford spring pasture for the pigs until the grain has been cut off the

second plot, seeded the second spring. Or, again, clover hay may be gotten off by the end of June, and by the end of July the aftermath will afford good pasture for spring litters. Rape is not as good a pasture for hogs as is clover. On pasture we would feed threequarters of the full meal ration.

*Synopsis of an address at the Guelph Winter Fair, becomber, 1915.



FOR SALE AND WANT ADVERTISING

FOR SALE-Choice pure bred Cockerels, Buff Orpingtons, \$3.00 each; S. C. White Leghorns, \$2.00 each. Write for particu-lars.-F. H. Reesor, R. R. 1, Markham. Ont.

PRE - To Stockmen and Poulitymen, our 80 page illustrated booklet on foeding: how to construct a house which will ac-commodate 100 hens; gives dimensions, abor required is of every piece of lum-ber required is of every piece of lum-discusse of stock and poultry and the remedies. The how to curre roup in foor days. Contains full information about and remedies. The W. A. Jenking Mfr Co. London, Conada





Variety of Food Desirable

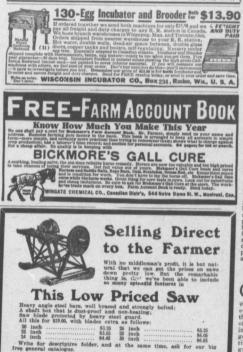
ARIETY of feed is what fills the winter egg basket. Corn three times a day as a rule builds up fatty tissue, makes hens lazy and re-duces profit.

Animal food, ground food and a generous supply of green stuff pro-duce the best results for laying fowls.

The exercise so ne d'ul for poultry can be provided in winter by working can be provided in winter by working the grain ration well into the litter of fresh straw that should be provid-ed as a carpet on the feeding floora. A good variety of grain should be provided, some corn, wheat, cats and nately, makes a satisfactory ration. A grain ration for winter use that has given good resulfs consists of two parts corn. two parts wheat, one

two parts corn, two parts wheat, one part oats and one part barley. It is recommended that the ground feed be placed in a small mash box





THE PAGE WIRE FENCE COMPANY

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FARM AND DAIPY

ed to be quite satisfactory: One hum-diced pounds bran, 160 pounds mid-dlings, 100 pounds ground corn, 80 pounds mait aprouts, 80 pounds one scraps, and sufficient salt. During the dial meal site: about 26 pounds of dial meal site: about 26 pounds of dial meal site. When these feed to this mixture. When these feed to this mixture. When these feed in all instances being to get a wide variety.

be substituted, the main idea in all instances being to get a wide variety. Buttermilk and odds and ends from the kitcher, and such green food as cabbage, alfalfa, silage and turnips are great aids to egg production. Not only more eggs, but eggs rich in pro-tein and high in vitality with firm shells are likely to result where prop-er thought is given to feeding systems.

Forcing Late Pullets

A RE your pullets laying? Pullets that do not begin to lay by the time freezing weather sets in will usually wait until spring. This means a deal loss for several montha. The average poultryman cannot af-

or trough where the hen can have but wood ashes and hen manure ready access to it. The following should never be mixed before they are mixture of ground feeds is consider-applied. Kainit will also supply pot-ed to be quite satisfactory: One hun-ash, and be mixed with the manure, applied. Kainit will also supply pot-ash, and be mixed with the manure, it having a tendency to conserve the ammonia. Lime should never be mix-

ed with the manure. ed with the manure. It is claimed that a freshly-laid egg placed in a bucketful of water will sink nearly to the bottom; two days old, will dota tor quite at the top; four days old, just touch the ton; five and six days, rise a little above the top, rising a little higher as it daily grows older.

A Lesson in Economy C. C. L. Victoria Co., Ont.

O. C. L. Victoria Ca., Ont. Two years ago I visited a young farmer in the northern part of On-tario county; a cousin of mine, by the way. Wy first visit had been made aine or 10 years previously. "You have a fine line of new im-plements," I remarked on our tour of inspection of the buildings. "I had the most of them when you were here 10 years ago." was the astounding reply. "There is pothing



A Woman's Idea of a Model Farm Poultry House.

This poultry house was designed by Mrs. Albert Twiss, Norfolk Co., Ont. There is only one compartment in the house, the front is of wire netting with cotton sakes which may be let down from the roof in cold or stormy weather. —Photo by an editor of Parm and Dairy.

ford this loss if he is raising poultry for egg production. Pullets of the Mediterranean breeds

10° egg producena. Pullets of the Mediterranean breeds hatched not later than May 1st, and that have been reasonably well cared ior during the growing period will be laying before early winte. It sometimes happens that force of circumstances necessitate late hatching and it is these pullets that must be mushed to get them ready to lay in the fall. Feed a ration of high protein con-tent including such feed as beef seap, bran, middlings and oil meal. If skimmed or buttermilk is avail-abide if it range whenever it is pos-side if it range whenever it is pos-plement their ration with some green plement their ration with some green pleases the suprouted outs, green al-er such as produced outs, green alplenent their ration with some green al-falfa, beets, cabbage, etc. Birds fed such feeds as above, kept free from disease, lice and mites, and given plenty of exercise will develop am-azingly.

Poultry Pointers

EESE do not relish tall, woody GESE do not relish tall, woody tough. In a wild state they de-vour large quantities of roots of erasses and aquatic plants, which they dik from the banks and borders of streams and wash free from earth in the shallow water. Domestic geese generally feed upon pastures, prefer-ring moist, rich localities where the grantant feedin hort and sweet by The hen furnisher. The hen furnishes a manure rich in nitrogen, and to get the most bene-fit out of it there should also be applications of potash and phosphate. Wood ashes will supply the potash,

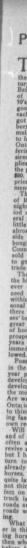
new on them, but the paint. I cal-culate to keep the implements looking If you want to get comfortably new. If you want to get comfortably wealthy on the farm, you must do it by economizing. The best way to economize in implements, I have found, is to spend a little more on paint." paint

Almost unbelievingly, I examined Almost unbelievingly, There were no all of that machinery. all of that machinery. There were no checks in the wooden parts, no rust on the metal parts. Every place there had been paint when the im-plements left the factory, paint had been applied ever since as needed. At the time of my visit the spring stored in the implement abed. It found them all carefully cleaned, the bright nars pressed to mercent rust.

found them all carefully cleaned, the brieht parts greased to prevent rust, and a daub of paint applied here and there as needed on the plow handles. The average life of an implement on the farm I am told by implement dealers, is about five years. I should estimate that on a 100-acre farm simiestimate that on a 100-acre farm sum-lar to that run by my cousin, the in-vestment in machinery runs about \$800. At that rate the young fellow has already saved himself \$800 on implement bills by using paint and grease judiciously. Perhaps this ex-plains in some measure why he got rid of the morganese around rid of the mortgages so rapidly.

The annual meeting of the Experimental Union is to be held at the Gn-tario Agricultural College on the 11th and 12th of January next. The ex-students', officers' and students' ban-quet will be held at the College dining hall on Monday evening, January 10th. The programme for the Union meet-ing is under way, but is not yet completed.

January 6, 1016



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January 6, 1916

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FARM AND DAIRY

Present and Future Status of the Draft Horse* <text><text><text><text><text> "Dr. F. C. Grenside, Wellington Co., Ont.

system of feeding, is that I have been feeding clover hay to horses for 15 years and so far without any serious results.

years and so far without any serious results. I find a general disposition to he-lieve that heaves are frequently caused by feeding clover hay. It may be true, Poorly cured disposition to he-to be dusty and dirity and this apit to be dusty and dirity and this apit to be dusty and dirity and this apit to be dusty and dirity and the this the membranes of the heaves. Even if the results drs not so serious, the dust in the throat may cause the horse much discomfort and reduce its efficiency. I plan to have all of the clover on the farm cut early and cured free from dust so far as watered free from dust so far as venues conditions will period the clover is hold wather part of the clover is hord to be that particular down is stored to be that particular down is stored to the horses ado to take care that the horses ado to tget to much. This latter danger, overfeeding, is

sary to take care that the holds is not get too much. This latter danger, overfeeding, is never to be feared in the case of tim-othy. Timothy hay is dry, woody stuff and horses never eat enough to hurt themselves. Timothy is not nu-



The Kind Always in Demand

These Clyde marces are the property of Thes. Hall. Ontario Co., Ont. Breeding stock such as this promises to be morre valuable after the war than it is now.

wheatle after the war than it is now. Tritious and the large part of the horas's feed must come from the grain ration. I find that by carefully feeding clover, I can reduce the grain period very considerably during the period very considerably during the during the period very considerably during the period very considerably during the during the period very considerably during the period very considerably during the during the period very considerably during the period very considerably during the du

Treating Grease Heel

to time we are. Intry are now becau-ing fast enough in the West for their own requirements. Will there be a revival of business and of old quotations in horses I am often asked. Probably business will revive and thrive asit did in the past, but I hardly expect to see horses are-turn to the old level. Prices have a horsely dropped 380 to 876 on draft busies. The motor truck is being used word thing in some cities, but I do not thing it will have a material ef-fect on hoir will have a material ef-fect on hoir will have a the good roads and long trips, but not to bad roads with much backing and twist-ing. <text><text><text><text><text><text><text><text><text><text> Jas. Armstrong, Wellington Co., Ont.

<text><text><text>

Alfalfa for Colt

<section-header><section-header><text><text><text>

Coming Events

Eastern Ontario Dairyman's Asso-ciation Convention, Renfrew Ont., Jan. 8 and 6. Ontario Agricultural and Experi-mental Union Annual Meeting, A. C., Guelph, Ont., Jan. 11 and 12, 1916.

1916. Ontario Corn Show, Chatham, Ont., Feb. 1 to 4. Sixth Annual Apiculture Short Course, O. A. C., Guelph, Jan. 11-22,



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the hogs grind their own feed, rotat-ing the mill by rooting at the sweeps on the feeding tray. There is abso-lutely no waste and they are always supplied with freeh, dry, ground grain.

As a provide the first, dry, ground grain. As a provide the distribution, there is no equal to the distribution, there we will allow H. f. far-ou to \$500 to these who make the trip to listowed where dozens of motory can be seen instructed and the distribution of the palse and representatives of Paremen-Clube come to Listowel to investigate the merits of this machine. Why not seed and so the set of the set of the the merits of this machine. Why not feed. — THE — THE

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roads with much backing and twist-ing. What is the decision of the breed-ing horses as he did in the 40'red ing horses as he did in the 40'red hen when prices start up as they did before, be caught without even breed-ing stock? Abrupt changes are slavgas a mistake. I would recommend going on with our breeding operations and producing only as good horses as we find horse traffic in a future for the draff horse traffic is a future for the dr

Is Clover a Safe Feed

Is cover a Safe Feed In are been asked time and again I if L do not consider that I am taking a long risk in feeding clo-ver hay to both working and driving horses. The most convincing argu-ment that I can give in favor of my "Summary of an address delives of at the "Summary of an address delives of at the that I can give in favor of my "Summary of an address delives of at the that I can give in favor of my "Summary of an address delives of at the that I can give in the summary of the sum of the sum that I can give in the sum of the sum of the sum that the sum of the sum of the sum of the sum of the sum that the sum of the sum of the sum of the sum of the sum that the sum of the sum

lowed. Possibly the most important factor in the high quotation of the first 10 year period of this century was the development of the northwest. Such development called for horses and the most of them came from Ontario. Are we done with this feature in the Output here situation 2 tam inclined

Ontail on horse situation? I am inclined to think we are. They are now breed-ing fast enough in the West for their

Most of us water Brit e du water part a bane out the state of our that cramps and hampers him for work that cramps and hampers him for work that cramps and hampers him for work that cramps and hampers him for during the state of the state of offering him as opportunity we shape out the state of work that cramps and hampers him for during the state of the state of offering him as opportunity we shape out the state of the s

The Choice of an Occupation

"HE most important moment in a man's life is that in which he chooses his occupation. That is the rate of his maximum states and the turning point, the epoch from Nor should it be thought that the rate of his work which revuisite success of failure. Upon the sound-workers has the gratest opportunity ness of his judgment at that crucial for putting his own ideas into his happiness of all his after life. How wholly desirable. To diving that the contract of the sound be not be and the source of the source of all his after life. How wholly desirable. careful he should be to see that when the morent of decision arrives his choice will be such that all his later years will confirm the wisdom of his

selection It is not here presumed to give gratuitous advice to the young man who has come to the age in which the choice of an occupation must be made. The responsibility and privilege of making that decision is his own and he should brook but little interference in what is so very much his own concern. It may be in place, however, to point out some of the dangers that observation and experience have sug-

observation and experience have sug-gested may confront him at this time. "Blind Alley" Occupations One thing should be guarded against with the utmost diligence and that is the choice of a "blind alley" occupation, one that leads nowhere the state of alley" nowhere. Under our present complex nowhere. Under our present complex industrial system the name of such occupations is legion. Industry tends more and more to run automatically so that a few men may oversee the work of hund*eds of toilers. One of these workers bucomes virtually part of the machine he onceates. Instead industrial system the name of such them is a myth and a mockery. These are not overdrawn cases. so that a few men may oversee the so that a few men may oversee the these workers bocomes virtually part these workers bocomes virtually part these workers bocomes virtually part these matchine he operates. Instant that her fair share. One has not of the matchine he operates. Instant of this country to witness the matchine he stands, he is a man of good natural ability and an education to the fair the matchine at which he stands, he is strong character engaged in some line Mr. Warren does not theorize.

every movement to it. The man so situated becomes eventually an auto-maton, as incapable of rising as the inanimate castings which regulate

wholly desirable. To illustrate, take the case of a man engaged in one of the building trades, a carpenter for instance. Though he may experience the satisfaction, and doubtless it is a satisfaction, of seeing the material with which he works take form and expression under his hand, after all he is at the beek and call of a fore-man or employer. For eight or ten hours each day he must submit his will to that of his boss with but little scope for initiative. In the beets of scope for initiative. In the best of times he receives but little more than what is sufficient to keep the wolf from

what is sufficient to keep the wolf from the door. In the times of industrial depression he may even be brought face to face with a lack of the necessi-ties of life. Strikes, lockouts and other conflicts between capital and labor indicate among other things that industrial workers are coming more and more to feel that they are not be the wave and they faced on the seadon of but wage slaves and that freedom for them is a myth and a mockery. These are not overdrawn cases.

power, his influence and his useful-ness. Such a man "works sore." as the city toilers say, and his whole life runs in a groove from which he is powerless to extricate himself, for when the time came to choose his oc-cupation he chose a wrong one. The Advantages of Farming The Advantages of Farming is to a

cupation he chose a wrong one. The Advantages of Farming The business of farming is to a large extent free from the disabilities which characterize much of the work of the city toiler. True it is that the farmer has his ewn problems to solve, and difficulties of his own to over-come, but the young man of ability-and energy who has a taste for farm work is still able to make a success of it. His opportunity for the exercise of initiative and originality is almost infinitely greater than that of the city worker. He also has a greater on-portunit, for seeing the plans of his brains and the labor of his hands materialize into forms expressive of his personality. He is free from the irritating, puty tyrangy of the fore-man or employer. As owner and measure of the own farm and in the man or employer. As owner and operator of his own farm and in the activities which public life and the great farmers' movements of the day the great farmers' movements of the day open up to him his chances for per-sonal developments are becoming greater every day. To the ambitious young man who brings to the busi-ness of farming that concentration of purpose which 's the back bone of all achievement in the world a large

work, "Farm Management," has some interesting things ay regard a the value of education to the farmer. farmer. His



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starments are based on una from a thorough investigation by Cornell University of actual conditions in certain counties in New York State. This is what he says: "The State. State. This is what he says: The young man who proposes to start farming should first get an educa-tion. Education is more essential in farming than it was twenty-five years

ago. "In one county the farmers who had attended high school made almost had attended high school made almost Fad attended might school made almost twice as much as those who had never been beyond the district School. A high school course is worth more than an investment of \$60,000 in 5 per cent bonds. Time spent in high school seems to he worth about \$7.00

per day to one who is to be a farmer." Thus is the opinion of one of the leading authorities on business farm-ing on this Continent. If it is true that the study of things so termite ing on this Continent. If it is true that the study of things so tenties from agriculture as those taken up in our high schools are beneficial how much more beneficial must be the study of practical agricultural sub-jects. To give thorough instruction in these subjects is the object of our in the subjects is the object of our in some available to those mastruction is now available to those mastruction villege of attendance at either a high school or the Agricultural College. To any such a letter enclosing the following coupon will bring full in-formation: formation :

Farm and Dairy, Peterboro, Ont. Dear Sire,-Send me full In-formation regarding: your Cor-respondence Course in Agricul-The Value of an Education F. WARREN, in his excellent 11170 Name Address ble Stee Rafter Both at «Hil Post Brace Set Up Snug to Warring rates, A. 2. 24 In. 50 II preserves "parties, "Conc. 24 In. 50 II preserves as a supplied. Ones the 26 gauge correspondent placed on the wall frame, not one inch o agents from the outside. Pediars Street PROOF, FRIE-PROOF, PROOF, PR Every Surprises Await You see Pedlar's Steel Brace "Ward n, aupprises await you at every tur fole windows, metal framed and glaze lass, reflect abundance of light to e o barn. Pedlar's "Superior" Bar apply ample ventilation and are pro-nuaance of birds. Extra ventilatio vulmerable points. Everything comes to you compl detail ready for our expert works exect in a lew short days. Wouldn't you like to know mo Steel Brace: Wardle Patent' Bar like to see plans and blue prints o Pedlar Barn best a lied to your will gladly send you, without ever, complete plans and Height of De



January 6, 1916

Wellington Men Get Together

A VERV interesting meeing was held at P-Imerston last week, when a number of Farmers' Or ganizations, Granges and U. F. O. Clubs attempted to consolidate their interests, systematize their operations

interests, systematize their operations and convert their segregated endeavor into a practical business-like action. The initiative was taken by Maple Leaf Lodge U.F.O., in calling a meet-ing of all surrounding organizations Palmeraton to discuss the project

in Palmerston to discuss the project. The aitendance was good, all existing

Clubs were not larve enough to take advantage of the carload system, and, having no storehouse, delivery was unsatisfactory.

was unsatisfactory. Besides this, no proper system of financing the work had yet been de-vised and where all used the same railway tion he thourhot consolida-tion in business the proper solution act only in the purchase of require-ments but in the sale of products

This seemed to meet with general approval, and was ably discussed by

A resolution was passed approv-ing of the schemes and asking that a committee be appointed to for-mulate a working basis for the various organizations to push the en-The committee annointed consisted

The committee annointed consisted of twelve members, three from each organization, as follows: Maple Leaf Lodge-Ino. McComb. Andrew Meiville, F. Bridge. Teviordale Grange-Ias. Mallett, T. Dieby, W. M. Calder, Maitland Grange-I. A. Carswell, Geo. Ouinnell, J. McMillan. Willow Groupe-Ias. Good.

Willow Grove Grange-Jas. Good-in. J. T. Brambill Geo. Porteous.

Chairman of committee-Jas. Good-

those present.

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whom he pri-a high College. ng the full in-

Ont. Cor-

Smith, a man of exceptional executive

ability, is president, and L. H. Blatchford, the energetic secretary. This club has over niaety members, is doing a large business, as eridence of which at this meeting they bought

of which at this meeting they bought forty car loads of bran and shorts. They are affiliared with the United Farmers of Ontario, and have stock in the United Farmers' Cooperative

Company, Cloverdale Farmers' Club, near Ingersoll, is becoming an active unit in this work. They are stock-holders in the United Farmers' Co-ope-stive Company, and are a promis-ing organization, well officered, and have a bright future. Mr. D. W. Clark is medican and Mr. M. C.

In Union There is Strength A Department Devoted to Cooperative A

Company

In Paragerson to obscure the project, The altendance was good, all existing holders in the United Farmers' Co-organizations being well represent opersitive Company, and are a promis-ting organization, well officered, and have a bright future. Mr. D. W. County, and secretary of Movielle Bell is secretary. U.F.O., J. C. Dixon, expresident of The Kiel and Maryboro Fire Issur-Ontario has only been lately organ-mers company, Ino. Printer Sarton, Contario has only been lately organ-partition co. Ltd., and I. J. Mor-rison, treasurer of the United Farmers' co-should they get the proper range, will rison decound of the disadvan-tage of the present mode of doing well is president, and Neil Muterer, business.

young men of dated school.

secretary-treasurer. Young men of energy and intelligence. Braemar granges, the old and reli-able farmers' organization of Oxford, is still in the business, and gave a fine response to an aftenoon meet-ing. Fred Parker is master, and I. D. McKsi secretary. Thes. Plow-right is head of the purchasing com-mittee.

mittee. Beamington United Farmers of On-tario has excellent quality, and will yet make their way to a place among the strongest clubs in Gxford. Geo. Smith is president, and Alex Pilton is secretary. Both these gentlemen we fully qualified to lead this to sucis secretary. Both these gentlemen are fully qualified to lead this to success

The members of the Oxford Milk The members of the Oxford Milk Producers' Association were also anx-ious to hear of cooperation, and s.smbled in fair numbers at Wood-stock, to hear of its progress, and sig-nified by their president. T. T. Laminnan, of their readiness to do their nart toward narcing our industry. Laminnan, of their readiness to do their part toward placing our industry in the position it ought to occupy, alongside of the other organized in-dustries of Canada. Mr. F. W. Gable is the energetic secretary of this organization.

C. C. James on Consolidation

W E have never yet measured up to our-ideas of the education entitled." sold Dr. C. C. Iames in the course of an address in Toronto last fall. "We must come to the consoli-

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The dairy bull is very apt to com down with "barn founder," unless hi pen is well bedded and dry. unless his

We cannot make ALL the fence-so we "make the best of it."

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Page fence is not advanced in price-in spite of the increased cost of wire. Heavy buying of raw material, before it started to advance in cost, has given us a supply that ensures your profit and ours, without sacrifice of quality or weight. We have our store-rooms heaped high with wire; and, as always, we are using full No. 9 gauge, even to the locks.

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Order now and get quick delivery-before the orders begin piling in. Mail your order to-day to the nearest Page brancl, with cash, check, money order or bank-draft. THE PAGE WIRE FENCE COMPANY

Farmers' Organizations are Progressing

A NUMBER of meetings in the interests of the United Farm-ers of Ontario were recently eld in Oxford county by Secretary 1. Morrison. These meetings were more of an explanatory and advisory A held in Oxford J. J. Morrison. nature than as an organizational endeavor. One new organizational en-deavor. One new organization was formed at Dickson's Corners, with 20 members of exceptional quality even for Oxford, which is strictly high grade-in all things, temporal as well as intellectual.

grade in all tanges, temporal as well as intellectual. Mr. Wm. Callyer, of well known public spirit, was elected president, Mr. Robert Karrer, vice-president, and Chas, L. Henderson, secretarytreasure.

Maple Leaf Farmers' Club., at Embro, held a most enthusiastic meet-ing; over 100 were present. Mr. A.

LIMITED. 505 Notre Dame Street West

ST. JOHN

FARM AND DAIRY

FARM AND DAIRY

AND RURAL HOME PUBLISHED EVERY THURSDAY

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OUR GUARANTEE

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The Rural Publishing Company, Limited PETERBORO, ONT.

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and consider."-Bacon.

Now for an Inventory

HAS the year 1915 been a good one for you? Just how much have your possessions increased in value in the past twelve months? You don't know? In that case there is no time like the present to turn over a new leaf and value the development of your business in a real businesslike manner. Here is a plan that may be adapted to any farm in the land.

Take an inventory the first of the year. Make a list of everything you own, including all money due you. These totalled up constitute your assets. In another column make a list of all your liabilities, such as implement bills not paid. notes coming due, mortgages that you may have on your property, and so forth. Deduct your liabilities from your assets, and the difference i. the value of your estate. Draw up a similar inventory in another twelve months, and the difference between the balance now and then will show how much you have gained or lost in the year's operations. If the balance is a good one, it speaks well for your business ability as a farmer and stockman. If, on the other hand, your inventory shows that the business is standing still or going backward, you will realize your standing and be spurred on togreater and more intelligent endeavor.

Why He Left

"Y OU have written reams on rural depopulation," a young man remarked to an editor of Farm and Dairy recently. "I can tell you the whole story in one sentence-A boy will find the place where he is used best and stay there."

Gur young friend did not tell the whole story,

FARM AND DAIRY

but he did come very near to it. Economic factors alone are capable of explaining rural de population on a national scale as we have had it in Canada, but personal factors in individual cases are still stronger. It was the personal factor that had driven the young man to whom we refer to the town. He was brought up on one of the best hundred-acre farms in Western Ontario. Until he was twenty years old, he worked with his father, had his own driving horse, lots of pocket money, but nothing whatever to say in the management of the farm and no prospects so long as he stayed at home, of being anything better than a superior sort of hired man. In the course of time his father would die and he would step into his place. Such a prospect does not prove alluring to any energetic, ambitious young man, and our young friend is now in the city and is doing well. He would just as leave be in the country had conditions at home been more to his liking.

A Problem: Its Solution

THE problem that this father had to solve was quite as difficult as that of the son's. He is a man in the prime of life, a good farmer, and a successful manager. The idea of retiring, even to give his son full sway, is distasteful to him. He had started an older son on a farm of his own, and it was his dream that the younger boy should stay with him on the old farm. Every acre of it was dear to the elder man. But he failed to hold his son there, and the farm may drift out of the family altogether. This is the problem.

A few years ago another of Our Folks found himself face to face with a similar problem. He asked our advice and got it, such as it was. He, himself, gave hours of careful thought to the subject. Finally, a partnership agreement was drawn up between him and his son. A lawyer was consulted in the drawing of the papers and the conditions of the partnership were made binding and legal. The boy was given a portion of the capital and the management of stated branches of the farm business. The two consulted together on all important problems. - A fixed dividend was paid on the capital, and, in lieu of wages, they divided the profits evenly. This agreement has now been in force for some years, and both father and son are well satisfied. This, in many cases, may be the solution.

One Source of New Weeds

I N an address at the recent Guelph Winter Fair, J. R. Dymond, of the Seed Laboratories, Ottawa, drew attention to the danger of importing new weeds on to Eastern farms through the medium of bran, shorts and chop. The greatest danger lies in chop. On one hundred and fortynine samples of chop feed selected all through the country and analyzed at Ottawa, thirty were found to contain wild oats, fifteen mild mustard, ten stinkweed and eight hare's ear mustard. One sample contained 1,648 weed seeds per pound. Another sample with fourteen kinds of weed seeds and six of them noxious, averaged 6,240 wild seeds per pound. Investigations conducted by the Department are more favorable to bran and shorts. It used to be the practice of some millers to mix their unground screenings with their bran and shorts, but they are now becoming more careful

The danger of weed infection from these three feeding stuffs is still worth watching. How may the farmer protect himself? Bulletins issued from the Inland Revenue Branch at Ottawa, give the name of the dealer in each sample analyzed and the number of weed seeds found in his pro-

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duct. This is one source of protection. Farmers may also send sample of feed they are contemplating buying to the Seed Laboratories, Central Experimental Farm, Ottawa, where they will be analyzed free of cost. We have enough weeds to fight now in the Eastern provinces without importing new ones through any medium whatsoever.

The Comradeship of the Farm

THE western sky was ablaze, but not with the sunset. A neighbor's buildings were going up in flames. He was a young man, just getting on his feet. His friends for a couple of miles around turned out and frught the fire as well as they could, but in spite of their best efforts, the barn, part of his crops and almost all of his machinery and stock were destroyed. The young fellow was down and out with discouragement. But when he declared that he could not re-build he did not count on his neighbors. They quietly passed the hat, purchased the materials for a new barn and then helped him to build it.

This instance of neighborly generosity occurred in a little valley in Nova Scotia. Such instances, however, are not uncommon among country people. They are practically unknown in towns and cities. And yet the average townsman considers farmers as a class close and tight fitting. When we get right to the bottom of things there is more genuine comradeship on the farm than anywhere else on earth.

The Written Word

SEVERAL dozen times a year Farm and Dairy receives letters from those of Our Folks who are having trouble with their hired help. In fifty per cent of these cases the difficulty would never have arisen had there been a proper written contract between the employer and his man, or men, as the case may be. Many other disputes that are brought to our legal department for solution are also traceable to a lack of the written word.

Verbal understandings are almost certain to lead to disagreements. We cannot impress too strongly on Our Folks the necessity and value of the written contract properly drawn up and signed. In all more important contracts, it is well to have a lawyer draw up the papers. His fee may be money well spent. Contracts of less importance may be drawn up by the contracting parties and properly witnessed. In an agreement between employer and employee, the signatures of the contracting parties alone should be sufficient. Back of all agreements, however, we should have the security of the written word.

Do Dairy Farmers Die Poor? (Hoard's Dairyman)

AIRY farming, like all other farming, has D its shady spots; but, after all, we can't recall that we ever knew a farmer who followed it steadily and intelligently who did not increase in wealth. This is especially true of the all-round dairy farmer who patronizes a creamery. That man's farm increases in fertility for he grows young stock and hogs and makes lots of manure. There is money coming in to him all the time for pork and young cattle. He is all the time selling off his older cows, culling out his herd.

Those creamery sections that make a point to keep registered sires and produce cows and heifers for sale are going ahead in the accumulation of substantial wealth much faster than any other class of farmers we know of. At the end of the year, or, we may better say, two or three years, they can show more clean money than those who depend on the milk product alone for their money.

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vs and ccumuan any he end r three y than one for Good Light at Small Cost for Rural Homes

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<text><text><text><text><text><text> all the modern conveniences in the way of the latest ian waying machin-ery; he will provide a saving machin-ery; he will provide a saving machin-daughter, and an automobile for his-son; and yet his family will go right on using the old dingy, smelly and costly open flame lamps that cause eye strains, headaches and necessi-tates the use of glasses by all mem-bers of his family prematurely. This is a sad conviction of the farmer's judgment, and yet it is only too true.

Conditions As They Are

Constitutes as Iney Are In a recent, investigation of the matter in 100 farm homes just as they came driving along the road I found that 98 of these homes had nothing better in the way of lights than the old open flame kerosene lamps, some of dhem with flat wicks and some with of fhem with flat wicks and some with round, and about evenly divided among the two. Of these 100 farm bornes 15 had automobiles and nine had pianos in the house. In 88 of them some members of the family were wearing glasses. What a regret-able error of judgment this is, when we consider that the gift of sight is by far the most precious our Maker gave us.

by far the most precious our Maker gave us. It is the that up to very recently the matter of providing the farm home been a different one to deal with be-been a different one to deal with be-plants for the individual home was gone right on using the old fame gone right on using the old fame ind wome created. Up to about fifty years ago, when Edison brought out the fact practical electric light, there had big no real improvement in artificial lights for the home and the working places. Since then there have been quality of the light itself, that are applicable to all the differ-ent needs, and the mant-ter or the optime in the land should not be provided with an im-proved lighting approximation. The cost of a mantle lamp does not exceed aig dollares, and it will save enough on oil allows any for inself.

not exceed six donars, and it will skyce enough on oil alone in the course of six months or so to pay for itself, to say nothing of the comfort and cheer it provides in the farm home by

FARM AND DAIRY

and general happiness. Mappiness? Yes, that's the word exactly that I wanted to use, and in the right place. Happiness is what we should live for, not merely dollars and cents, and there is nothing that contributes more to happiness for ourselves and others than light. It was the first thing the Creator saw the need of after He had created the heavens and the earth. He provided all that was needed then, but left it to use to provide more as needed. The inventors have happily succeeded now in providing the best of lights to meet the wishes and needs of every-one, and there is no longer any ca-cuse for going along without all the light we need or desixe.

. . .

Horses Will Be Needed

F ARMERS are foolish to sell their good mares," stated Mr. John Bright, Dominion Live Stock Bright, Dominion Live Stock Commissioner, at a meeders' hasociation in Toronto on Dec. 31, "hasociation wery foolish to hold those sumthey are very foolish to hold those sumthey are very foolish to hold those sumthey are in Canada are going to be needed he-fore the end of this way, while ten times as many animals as we have at present will be needed in the western provinces in the next few years."

Some dissatisfaction had arisen Some dissatisfaction had arisen over reports that thousands of reject-ed war horses were being sold in Canada. The Live Stock Commis-sioner gave an emphatic denial of these rumors. "Of the 30,000 animals bought in this country and of the thousands more passing through from the United States only 300 rejected horses have been sold, all of which were given a veterinary inspection be-fore being disposed of." Mr. Rejich quieted smath

Mr. Bright quieted much appre-hension on the part of the Ontario farmers when he stated on the au-thority of the Canadian Premier that the Government had never ceased to hum horees buy horses.

Owing to the dissatisfaction among Owing to the dissatisfaction among the farmers and hora-breaden of Ontario over the present system of huying army horses, a committee, composed of John Boag, Robert Gra-ham and William Smith, was appoin-ed to discuss with the Minister of Agriculture the question of buying remounts for the Dominion of Can-ada.



Alpha Gas Engines Do Any Work-Use All Oil Fuels

In engine that will do the work you want is to do: that will op-erate without being continually adjusted and tinkered with; that will burn any fuel you wish, is one of the greatest conveniences you can have on your farm.

(1) phas Engines entirely measure up to these requirements in every re-spect. You can always rely on them. They start and run on a rar no rorosed magnetic. There watch or fuss with, or year out, and frequently require renewing. Simply turn on the fact, give the bywheels a turn, and the engine is provide a steady all day run at any kind of word.

Alpha Engines are ideal for farm use, because anyone can operate them. Your wife or hoy or hired them. Your wife or hoy or hired without the least trouble, and do easily many small jobe that would "otherwise require a lot of time will ave york. Alpha Engines will ave york. Alpha Engines will ave you avery from field work that is demanding Ask for the Alpha Engines and

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your attention. Ask for the Alpha Engine cata-logue, It will give you a lot of valuable information on the many superior and exclusive features of these Engines, and will show you how to get more work doue in less time and at less cost.

Eleven sizes, 2 to 28 horse-power. Each furnished in stationary, semi-portable or portable style, and with either hopper or tank cooled cylinder

DE LAVAL DAIRY SUPPLY CO., Ltd. LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA

Sole distributors in Canada of the famous De Laval Cream Separators. Manufacturers of Ideal Green Feed Silos. Catalogues of any of our lines mailed upon request.

MONTREAL PETERBORO

WINNIPEG VANCOUVER

SYDNEY **BASIC SLAG**

Now that the New Year has started Ontario farmers will be thinking of fertilizers. The man who has used them, knows their value. To him we sav

"Give Sydney Basic Slag a Trial This Season"

The cost is \$20 per ton. Compare this with what you have been paying elsewhere. Is it not worth your while to investigate? Then there is the man who has been watching his neighbors and has been thinking of trying fertilizer, who probably has been reading our advertisements from week to week. We want to get at him. If we are not represented in your district why not take our agency and distribute a carload of 20 tons? You will be reasonably remunerated for your trouble and your neighbors will bless you for introducing Basic Slag into your district

Write us at once and we will have our general Sales-agent call on you."

THE CROSS FERTILIZER CC. Ltd. SYDNEY, NOVA SCOTIA

MUR power over others lies, not so much in the amount of thought within us as in the power of bringing it out.-Channing. . .

The Silver Lining By C. D. POGSON

NE bleak February day, when NRE bleak February day, when the north wind was sweeping the Frost King was playing havoc with the mercury, Jack Gray sat in his lonely home by the side of a blazing coal-fire. He was engaged in reading the latest issue of an easi-erm newspaper, whilst Dash, a small Collie dog, Jack's sole companion. lay comfortably snoozing on a sofa near bu

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near by "The auction sale of Mr,. Wm. Blain's stock and implements, on Fri-The anction safe of Mr. wm. Blain's stock and implements, on Fri-day last, passed off very successfully and the prices realized were above the average. Mr. Blain has disposed of his valuable farm, but has not yet decided where he will make his fu-ture home. However, he intends to go West and look over the country before choosing a location." Having read this item, Jack tossed-the paper to the floor, and sat gaz-ing into the befining coals, "thoughts passing through his mid. What mattered it though he did own a half-section of fertile level land, watered by a spring creek, which flowed some fity yards from the buildings? What

by a spring creek, which invoked some fifty yards from the buildings? What though his was the only one-and-a half storied house in the district?— castle, the "boys" called it, to distin-guish it from the neighboring ten by they to ot, car-roofed shacks scatguish it from the neighboring ten by twelve foot, car-roofed hacks scat-tered over the surrounding landscape ? What though he owned a splendid Molly, as fine a saddle mare as one would wish to see? Vixen was her name before she came to "Meadow-brook." And a vixen she was, being thoroughly versed in all the vicious tricks which abuse and mismanage-nent can produce in a spirited pony. But firmness conquered, and he and Molly were now fast friends. What though he owed no man a penny-love of Dorothy Blain, she one of the gentle voice and silvery laugh, and charming womanly grace? Three years previously she had romined to become his wife when he had got this farm well under way. On the eve of Tack's departure she bade him a brave farewell, hough the tears stood on farewell, though the tears stood on her lashes.

her lashes. Dorothy was the queen around whom all Jack's choosing and plan-ning had circled. How her letters had cheered him as he read and re-read them at the end of an arduous day! Yes, she it was who had planned the situation of the thrifty grove of young trees which surrounded Jack's home. She also who had suggested that the house be so placed that it might give a view from the kitchen window of the distant Rockies. They stood, clear-cut and maisetic, one window of the distant Rockies. They stood, clear-cut and maiestic, one hundred miles to the westward, and plainly visible on every bright day. In vain had been his plans; even new she was the queen of another

home than his. Ten months before ther letters had ceased to come. Then her letters had ceased to come. Then came a card from an old acquaint-ance, telling Jack that Dorothy and Sam Taylor, his old-time rival, were to be married on Christmas Day, No,

to be married on Christmas Day, No, he would never trust another woman, Then his thoughts flew back to the golden courtship days. Well did he remember the many pleasant even-ings spent in the Blair home, as they gavly chatted or sang the old final-le field played the accompaniment on the plano. Or the long peaceful Sch-



A Desirable Home, Substantial and Attractive.

This stone farm house is typical of thousands of others in Western Outario, built on pleasing lines, and built to last. The one here illustrated is the home of Ohas Expect. Wentworth Oo. Ont.

bath afternoons, when they had sat side by side on the ivy-mantled ver-andah, and watched the flashing humming-birds as they swiftly gleaned the nectar from the gayly-colored the nectar from the gayly-colored flowers growing in such profusion. Could he forget the quiet strolls down the winding, wooded path to the rockstrewn shore of the little the rockstrewn shore of the little lake, a mile from home, where the wavelets gently kissed the pebbled beach, and palyfully rocked the tiny ducklings; or, when angered by the biustering wind, had united their forces, and become angry, foam-created waves poundering merciles-ly against the large rocks upon the be and Dorobub had watched, while: shore? Or the beautiful sunset when he and Dorothy had watched, whilst idly drifting in their gayly-painted boat, when nothing broke the calm save the occasional crackling laugh save the occasional crackling laugh of a loon, the hooting of a distant owl, or the splash of a playful pike as it flipped from the water? Could he forget the evening when he had declared that without here life would be a hollow sham-ahl that blissful evening when they had plighted their troth? No, never! Presently the clock struck twelve. Jack sprang to his feet, "How time does fly. No dinner cooked, horses not fed. Oh, what a dog's life," mut-

tered Jack as he dug a piece of bacon out of a box on the pantry shelf, sliced several pieces and tossed them into the frying-pan,.

FARM AND DAIRY

into the frying-pan, Just then the door flew open, and in stamped Jimmy Weston, a neigh-bor, clapping his hands together. "Good fer ye, Jack. Just cookin' chuck for me, ch? Have a chair? Beet yer life I will, Guess I'll stay all night if this keeps up. Glad I ain't got but one hoss, an' he's in your stable now

now." Jimmy has been a cow-puncher and bronco-buster in the old days, but had settled on a homestead be-cause, as he said, "it gave a feller a comfortable feelin' ter have the deed to a bit o' land in his wallet." But Jimmy didn't farm, not he. After filing on his claim, he built a small shack, and hired Jack to break the required amount of land and lence th spame. Then the leighbac, who gave Jimmy a share of the crop each year. each Weston spent much of his time in

Weston spent much of his time in the saddle astride of Pepper, a speck-led gray pony, riding from ranch to ranch, and occasionally lending a hand at rounding up, branding or

hand at rounding up, branding or bronco-busing. "Cheer up," said Jimmy, helping himself to a fourth piece of bacon, "we're going to have a Chinook in a couple of days." "There's worse things than bad weather," said Jack gloomly. "Right ve are," returned his friend. "Girl ain't backed out, ch?" Then noticing Jack's embarrasment, he continued, "Never mind, old chap;

ye'll come through sailin'. For my part I wouldn't abide a woman around, Soon'r l'd get my calabash filled, chair tited, and feet atop of the stove, she'd be comin' around with the broom, saying 'James, will you please move?''

you please move?" "The panel, will "You haven't met 'the only one' yet," said Jack, my back and the many show-ing his plate back. "Let's have a game of checkers," of the back. "Let's have a game of the dishes washed. "Diahesi Ain't ye got any more in the cupboard?" "When when the show of the show of the head back bringing out the dishes."

"Dishesi Ain't ye got any more in the cupboard?" "No," said Jack hringing out the dishpan. Whereupon Jimmy threw off his jacket, rolled up his sleeves, and washed not only the dinner dish-es, but also a collection from the cup-bar of the second state of the said with a sigh of relief, rolline down his sleeves. "Yow fer checkers." And "checkers" it was until supper time, and thence until midnight, Jim supper the head won. or lost, as the case might be. Next morning a Chinook was steathily licking up the snow as Jimmy waved a farewell to Jack from the saddle. Pepper loped down

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the trail, and Jack stood at his door watching, until pony and rider dis-appeared from view. Then he turned and slowly entered the house.

Chapter II.

In the meantime Dorothy's father In the meantime Dorothy's latter was busily, engaged in settling his af-fairs, prior to his leaving for Alberta on the first day of March. The so-briquet "Sunny Alberta" appealed very strongly to Mrs. Blair and himself

self. As for Dorothy, she had lost all in-terest in Alberta since Jack's letters had ceased to come. Ah, those letters; they had been almost meat and drink to her, as she read Jack's daily accounts of his work on the farm-their future home. And many a time her father's fingers had itched for the her father's fingers had itched for the opportunity of touching a trigger, as she read to him portions of Jack's letters wherein he described various hunting expeditions. How gaily she had driven home from the post office with the precious missives. Then they came no more. Yet her hope died not until, weeks later, Kli-ty Lowe, the postmistress, graciously imparted to Dorothy the information

imparted to Dorothy the information that in a recent letter, an Alberta cousin had mentioned Jack Gray. He and a neighbor's daughter had been recently married, and had gone to

recently married, and had gone to the States to reside. As one in a dream, Dorothy found herself answering Kitty's remarks, but to herself her voice sounded strange and unnatural. But apparent y Kitty observed nothing amiss, and Dorothy at length reached the street. She hastened towards home, vain-

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oth "s account, almost as much as the girl herself, nevertheless stoutly de-clared that "he wouldn't believe it." "If it is the truth," said he, "then someone has done some underhand work."

someone has done some underhand work? As the weeks passed away, and the once vivacius. Dorothy became re-served and horooding, her parents de-cio nevo surrounding, sady hoping that their daughter would once more become the cay, lighthearied comfort, which she had formerly been to them. Hence the sale, and the trip to Al-berta. In the meantime Mrs. Blair and Dorothy visited with relatives near the old home. In due time the father arrived in "Sumny Alherta" pleased to find that its balmy smile had not been ex-aggerated in the least. Having trav-elled over the province for a month

elled over the province for a month or two, he decided to settle in a promising district, some forty miles from Jack's locality (though he knew

11 not). After choosing a district. Mr. Blair looked over a number of farms off-fered for sale. He eventually purchas-ed the farm, stock and implements of a homesteader, who had "proved up" but was now sighing for the more exciting life of the city. Upon pur-chasing the farm. Dorothy's father immediately sent for his wife and daughter, bidding them make haste, as "baching" any longer than was ab-sol-tely necessary did not appeal to him.

sources never the message was received him. When and daughter made hasty pre-parations for the journey. After bid-ding farewell to friends, the old home and the little lake with its many attractions and memories, they were soon speeding toward the fertile (Continued on page 15.)

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January 6, 1016

New Year Meditations 7ith the Household Editor

With the Brouchold Editor With the Brouchold Editor Let us not be weary in well doing for in due season we shall reap Book. Before this issue of Farm and Daity reaches all of Our Folks, Jan. calendars, thave greeded us on our calendars, thave greeded us on our vear. True, a beginning of a new year. True, a beginning of a new year, but we are not in fights every dary but we are not in the second ary year or by birthdary. A year of unknown possibilities lies before us; see days of hidden trials and bless-ings, and how much are we going to do towards making this coming year the very best one we have ever liv-ed.

the set of best one we have ever liv-ed. The practical business man takes an inventory of his stock at the end of the year, taking into account his assets, liabilities and future possibil-ties. Would it not be a splendid thing if each of us would take an inventory of he past year's work, making note of the mistakes as well as the successes for future reference. Is amming up our resources three count,--our time yalace, strength up the live.

tableta A use end of the year 1916 bothic. The answer of his sime, for is not our suc-cess in any project is not our suc-cess in any project or is not our suc-cess in any project or is not our suc-energy and enthusiasm with by the the same? By carrying our enthus-iasm wherever we go, we will un-consciously exert an influence over others in the same direction. And if we "Hitch the best things ourselves, to will impire others to do the same? "To do very clearly when he says: "the both he here the the point of the says and the says and the point he a title both the point has a string for. "The the heat has a string for."

Let me be a little braver, When temptation makes me waver. Let me strive a little harder To be all that I should be; Let me be a little meeker With the brokher that is weaker; Let me think more of me. And a little jees of me.

The Sparrows

The Sparrows Sparrows are not obstruive birds, either in plumage, song or es, within. There are some 60 apec-tions, and the second state of the country where some cannot be found there is probably no part of the country where some cannot be found the second state of the second state o

FARM AND DAIRY

in the breeding season, they eat many insects and feed their young largely upon the same food. Examination of stomachs of three species—the song sparrow, ohipping sparrow, and hid parrow—shows that about one-third of the food consists of insects, com-prising many injuricous beetles, as nout beetles or weevils, and leaf beetl. Many grasshoppers are ea-ted the food. Grasshoppers are ea-row these insects form one-eighth of the food. Grasshoppers would seem to be rather large morsels, but the bird probably compared to the song the spectrum of the song the song the song the song the spectrum of the song the song the song the song the bird probably compared to the song the song the song the spectrum of the song the s



Song Sparrow

Song Sparrow. the smaller species; indeed, the great-est amount (over 36 per cent,) is ea-the stamount (over 36 per cent,) is ea-the stamount over 36 per cent, is ea-the stamount over 36 per cent, is early mentioned, many wasps and bugs are taken. Predacious and predac-tious beetles, all useful, are eaten only the insect direct, so that as a whole the insect direct, so that as a whole the insect direct of the state as the insect of the state as the bids the insect direct of the state as the insect of the state of the state of the insect of the state of the state of the insect of the state the stomatos examined show only the state the state of the state of the state the state the state of the state of the state of grass and the amount consumed is state. The state the state of the state of the state of the state the state of the state of the state of the state of grass and the amount consumed is interes. The state is the state of the immense.

immense. The snowbird and tree sparrow are perhaps the most numerous of all the sparrows. Examination of many stomachs show that in winter the tree sparrow feeds entirely upon seeds of weeds. Probably each bird about one-fourth of an consumes ounce a day.

The Child Problem

(Toronto Sunday World)

(Terosto Sunday World) M. Children's Shelter on Simcoe street, Toronto is greatly in favor of child adoption for the ne-glected children. "What could there be better for these little tones?" she said, "Try as we will, no one can really give the longing attention and individual love that each little heart craves for. The claim of the Red Cross, the Belgians, and many olier worthy relief funds are being well met, and we are glad to know, hut we sometimes fear for our little children, test, amid all the long ores-tioned." The Farm and Dairy of Peterboro

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a church, and noticing that it looked bright and promised a chance of warmth and rest, she slipped inside during the service, leaving her baby in the porch. After the service the baby was discovered simultaneously by two ladies, each of whom had been graving for a child to be sent to her. Child why did each believe that the child why did each believe the sup-erintendent for neglecte to the sup-erintendent for neglecte to the sup-really entitled to keep the baby. Truly a problem worthy of Solomon. He replied that the one who then had the child under her care had better keep it, and the society would soon find another baby for the other lady. This was done, and now both children are growing up happily side by dide in the same town, the joy of their respective [oster parents.

Making Putty and Other Hints Making Putty and Other Hints REQUIRED some putty recently for the storm windows. There was abundance, but hard and dry. I spent considerable time break-ing it into pieces, rolling with a bot-tie and sifting through a fine sieve, then adding paint oil. But it was crumbly.

crumbly. I remembered that an old carpen-ter once told me, that when he was an apprentice, he made all the putty required, using paint oil and whiten-ing. I rolled the whitening to break any lumps, mixed oil with it in a tin can, then turned it out on a paper floured with whitening mixing as though it were dough, till it was the



right consistency. In a very few min-utes I had the best of putty ready for use. The process was so easy and guickly done that I prefer to make fresh when I require it. (Concluded on page 14)

Learn to Stuff Birds Do you ever hout or figh? He sure to write more for or takeness. This of the starts of the first houses the start of the starts of the first houses very heriteft and pendicate. Here there is a write the start of the starts of the Write Today Every prophy you take is value. Write Today Every prophy you take is value. ELW000. Tablemit, 7001 Even Start, Suna, A. mounting for others. Writ Prof. J. W. ELWOOD, Taxida Cotton Seed Meal Linseed Meal and Flax Seed H. FRALEIGH, Bex. 3. FOREST, ONT. Sond a Construction with a construction of the province of the MUSIC IN YOUR HOME FREE By the Oldest and Most Reliable School of Music In America - Established 1995 Plase, Organ, Vielin, Mandelin, Guitar, Banjo, Etc. Plane, Organ, Vielle, Bancelin, Usitar, Dauys, Du-Vie Can, Neod Truste, Uki thi quidho Briginanet on defanced players. One lesson weakly, about 6 pard ay to cover could of potage and music used. Write for Prese boddle with arguing servi-tion of the service of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service of the service of the service science of the service science of the service of the service of the service science of the service science of the service of the service of the service science of the service science of the service of the service of the service science of the service science of the service science of the service of the service of the service science of the service science of the service of the service of the service science of the service science of the service science of the service of the service science of the s Deafness The second secon http://www.action.com/action/a After washing dishes a rub with Old Dutch makes the sink as clean as the dishes Public Diseases Old Dutch

Cleanser

12

Some of Our Interesting Utility Articles

14

Ont. N winter time my cistern in the cel-lar was a great comfort in the cel-Lat was a great comfort to me, but when spring came and we moved out to the summer kitchen, it meant taking a great many more steps to get soft water. I had often read of the galvanized water tanks and de-cided that if I could earn the money

cided that if I could earn the money in some way myself to have one put up, in my wood shed. We live near a large town, so I nut in more garden vegetables than I knew our family needed and as we went to town every week, I made arrangements with some of the gro-cers to supply them every Friday. In this way, the only extra work was a little in the garden, keeping it clean and bunching up the vegetables and I had soon enough money to put in my cistera. in my cistern. My husband built four stone pillars

Hy distant built four stone pillars ight erough that the bottom of the tank was the same height as our sink in the kitchen. When the time the back of the woodshed for filling the tank. I got him to put a pipe with a tap on it from the tank into the kitchen beside the sink, and a branch from this pipe with a tap into the woodshed beside my tubs where I washed me could be beside the wither and the sumer than in winter, as I have no pump to work or get out of order and could get the water out in two rooms. To clean it out out of order and could get the water out in two rooms. To clean it out or empty for winter, all I have to do is to put a pipe I have for the pur-pose under the woodshed top and the water goes out into the garden.

. . .

Brains that Worked Overtime Gertrude," Essex Co., Que.

M OVING from town to a farm 10 years ago, I found the only convenient article on the place was a pump in the back yard. There seemed a thousand things lacking to make life comfortable and my work easier

easier Can you imagine carrying water into the house, heating it on top of the stove and jumping into a wash-tub for a bath? Well here's where tub for a bath, well here's where my brain got busy working over-time. First I planned a bath-room 8×10 feet (by the way that is large enough to do family washing in too) The next question was where was a tank to be placed? The house being a cottage there was no spare room overhead, so I suggested to the car-penter that he lower the bath-room

penter that he lower the bath-room ceiling two and one-half feet. Then a tank the full size of room and two feet deep was placed overhead, and last squite a long time. Taps were placed in a sink in the kitchen and bath-rub This same tank supplies enough water to flush our toilet also. The plumber casily added a hot water tank near the stove in the kitchen and so I have hot and cold water all the time. You will wooder what t de cas

HGC My Summer Cistern The second state out as good if 1 did that. A Mrs. Robt. McParland, Lanark Co., I should not think the tea would Ont. N winter time my cistern in the cel mail force pump costing \$2.00 was a read comfort to me, but the second state out as you will be a second state out as you will be a mail force pump costing \$2.00 was a read comfort to me, but with four lengths of pipe, three el-bows and a foot valve on the bottom in well. I can get all the fresh water I wish and by the way, this never freezes up either. Now for the waste paper basket. "GERTRUDE"

kindly send us her full name and address so

Our Next Contest

CINCE we have had such a S hearty response in connec-tion with our Utility Con-test, we are going to conduct another of a decidedly different nature, but one of great import-ance and interest on the dairy farm. This time we want let-ters from Our Women Folks ters from Our Women Folks, giving their experiences and methods in making butter on the farm. What we desire are the methods followed through the process, right from the butter is ready for marketing, and something shout the mar-keting also where a good pri-vate trade has been established. rate trade has been establis For the best letter received we will extend the contributor's subscription to Farm and Dairy for one year, and for all other letters published, will give a six month's renewal subscription. nonth's renewal subscription. Let us have your contributions as early as possible as this con-test will close Jan. 20th.

that we may extend her subscription in consideration of the splendid ar-ticle she has contributed to this contest.

Our Dog "Carlo"

Mrs. Jos. Lawrence, Huron Co., Ont. HE utility contest announced in Farm and Dairy of November 25 attracted my attention and my first wish was, "O, for the pen of a ready writer," that I might tell some-thing that would do somebody good. Several things presented themselves; for instance, my kitchen stove with its beautiful warming closet, a con-venient washroom, pantry and dumb waiter, but finally 1 decided to tell about our dog "Carlo." Carlo is not a pretty dog to look to belp us, he is "float fine for him spot," and fulfils the saying "pretty is that pretty does." We had this dow Several things presented themselv

spot," and fulfils the saying "pretty is that pretty does." We had this dog for some years before we found him to be very useful. When we wanted him to chase the cattle, he would give a yelp or two and then would play with them. When we called him off, he would scamper away in an-other direction.

off, he would scamper away in an-the kitcher and so 1 hive stove in cold water all the time. You will wonder what I do for to send along his supply. Well that did put my wits out of business a his answer to that puzzle was, "gas-oline engine". The engine was about the direct away from the house in a shel, so 1 called in my partner and his answer to that puzzle was, "gas-oline engine". The engine was about the direct away from the house in a water is for in the kitchen sink and estint. A cesspool kinco the tank by dissolving one can of by once and is casily kept in good all pipes and is casily kept in good all pipes by dissolving one can of by once sink. Chloride of lime can also to sused and is very necesary where sever is out of the question. Stiff you may wonder if I use the

washing and churning, so that we are relieved of the strenuous part of house-keeping. We have wondered if we could make use of him to house-clean. We have not yet experimented.

perinented. Carlo is also a very excellent chicken dog. He will not let a hen come into our house yard, nor will he let cattle graze on the road-side directly in front of our lawn. But best of all Carlo is "Johnny on the span." He sourcely ever is away from none or barn.

When strangers come (and When strangers come (and he knows them), to our house, Carlo likes very much to lead them to his wheel to show them what he can do. He will look up into your face with such an asking expression on his little brown face, as much as to say "shall I show you what one of God's dumb animals can do?" He loves to "show off" to strangers. It seems to me Carlo has a great deal more brains than many people. The boys have quite often done chores after dark and Carlo always helps th'em.

There is great economy in having a useful dog like Carlo for he does nearly as much work as a servant and is much more easily recompensed.

. . **Much Appreciated Convenience**

Mrs. J. H. Pettit, Simcoe Co., Ont.

UST a few words to tell the read-ers of Farm and Dairy of my two greatest conveniences. They are what every woman who does her own laundry work should have, a wash-ing-machine and wringer. You can put out two tubfuls of clothes for one in the old way, with less work, and as the machine is covered the steam cannot escape, which is one of the essen-tials in cleaning the clothes quickly and thoroughly. Just think of the am-ount of rubbing saved in washing socks and stockings alone Then the wringer presses the clothes out smoothly instead of all those creases which wringing by hand causes. And the wringer takes out more of the water also which allows the clothes to dry quicker The cost is small when we consider

The cost is small when we consider how precious our time is. There are many other things in life on which we can spend our time instead of drudgery. I have these conveniences, because not being strong, and having two small children to care for and help hard to get, I could not spend the time and strongth. When we think of some women who are continually slaving to keep things done up spick and span, and who do not have time to seek to improve either their children or themselves, or to have recreation, it is time we who have improvements should seek to show improvements should seek to show those who have none, their worth. When we have improvements, work is a pleasure, instead of drudgery and is this not as it should be, for we should work to live, not live o work. I might say also that I have the above mentioned convenience and the promise of more through the

promise of more, through the thoughtfulness of my husband. The cost of the washing machine and wringer was only \$11.75 and they are worth much more in the time they save in doing the weekly washing. Hints that Make Work Easy Vor Welle Indexed

Mrs. Walter Edwards, Compton Co., Que.

JfILITY hints that have helped me-Buy your laundry soaps by the box, for best results.

In winter warm your clobes pins theroughly before hanging out the clothes. Your fingers will not be so cold and the pins will hold better. A little Bon Ami rubbed on soiled shirt bands will clean them easily. Salt in cold water will remove blood stains from linem. A weak solution of chloride of lime will remove mildew. Keep a card and a pencil in the kit-chen to set down the "things wanted" on next market day.

Have brass hooks, not nails over the sink, in the pantry, etc., to hang utensils on, and they will not always be tumbling down.

Have your sink, kitchen' range, work table, etc., arranged the proper height, so that you can work with your back straight and without droop-

your black straight and mixed are ing shoulders. If the top of the kitchen range re-quires polishing, first wash it with strong soap suds, and mix your 'black-ing' with soap suds and it will remain black for days.

black for days. If your aluminum saucepans be-come stained, boil a few staiks of rhubarh or pie plant in them and they will look like new. The woman who lives in a small cottage and is obliged to do her own sewing, will find a large oblong clothes-basket a great convenience. When obliged to pack her sewing out of the way quickly, it can be packed into the basket in a few min-utes and slipped out of the way, and when needed again it will be a great comfort to find everything in one place. place.

place. On ironing day, see that your ironing board is the proper height, and have a heavy rug to stand on to comfort your aching feet. That is if you must stand, but many a wise woman sits on a high stool while she does her ironing. Have all the cupboards in the kit-chen and natry nainted or enam-

chen and pantry painted or enam-eled inside, and have the shelves covered with white or marble oil-cloth that can be wiped off clean in

cloth that can be wiped on clean in a few minutes once or twice a week. When I house-clean, I cut a doz-en or more sheets of clean paper to fit, and place them on top of my high cupboards. It takes but a minute to remove a sheet, dust and all and burn it cance a week. it once a week



First Prize Baby at Cooksville Fair. This is Harvey E. Beamiah and his little sister, Gladys Mary. Harvey was the firm prise baby at Cooksville Fair this year, and he is certainly a healthy looking lit-tle fellow.

Making Putty and Other Hints

(Continued from page 18.) (Constructs from page and When making ice-cream in the winter, use snow for packing freezer instead of ice. It is much less work, and does quite as well, Mix salt with the snow, pack then pour a little water over the mixture to hasten

water over the mixture to hasten the melting, which means the frees-ing of the cream as well. Before cleaning the stove, in place of wearing gloves, cover hands and --ists with a soap lather, Let it dry on. You will be aurprised how eas-ily the black will wago boff the hands. This method does equally well for any work in which the hands are likely to become grimy.--A.A.F.

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Hints

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January 6, 1916

The Silver Lining

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Chapted III.

Chapted 111. The ato the weeks and months sped by unit here years have passed. The spectrum of the spectrum

life of the community and to a casual observer had regained his old buoy-ancy of spirit. But Jimmy Weston was not to be decived, and many a time had felt sorry for his friend as he detected an occasional note of bitterness in Jack's laugh, and at an unguarded in the labook of pain and suffering around the tighthy complaint did Jack ever utter, and Jimmy wisely refrain-ed from broaching the subject. But now, with the return of spiring, had come all the old, unsatisfied yearning. With all the strength of spatial field the strength of spatia

Dorothy, how could you have been so faise?" Rising hastily from the table, he strode over to the open window, and stood looking at the winding land-scope, but his thoughts were far way, and the beautiful panoramia search is the search of the search way, and the beautiful panoramia search is a search of the search of the down east son, and he'll likely bid his as it adjoins his own and . There'll be no trouble in finding a buyer; that's certain, Til try Cal-fornia, and among strange scenes and faces may learn to forget the pat." Dough the window lack saw Jimmy bough the window lack saw Jimmy with the stering outside, Jack in-vited his friend to remain for dinner.

"Thank ye," answerd Jimmy, "I'd like ter well enough, baf I got ter make the 'two-bar' by noon." Thrusting his hand into his pocket

he pulled out some papers which he ressed to Jack, afterwards unfolding a large poster which he held up for

inspection. "Look here, neighbor, there's goin' ter be a big whoop-up over the town on the twenty-fourth and 'they're of-ferin' some catchy prizes for racin' and buckin' contest. See that? point-ing to the poster, "One hundred doi-lars for the best rider in the buckin' contest. That's mine." "Don't doubt it," said Jack, know-ing Jimmy's capacities in that line of work.

ing Jimmy capacities in that line of the second second second second second of the second second second second second of the second second second second second you make that out? "How do you make that out? "How do you make that out? "How do you make that out?" "Molly's goin' ter win that race," ieclared Jack. "Well, Ti ride her myself then," youth Jimmy. "Bill Burkle was spoutin' bout his lanky gray tother day; said Molly couldn't keep in sight of bim He's goin' in that race, an' I'll just show Mister Burkle that he mit the whole o"You'll have to leave your spurs

"You'll have to leave your spurs off then," said Jack. "The mare



AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Can-ada. Breeders of Ayrahire Cattle and all members of the Canadian Ayrahire Dondders' Association are invited to Omdders' Association are invited to over for publication in this column.

SUCCESSFUL AYRSHIRE SALE.

SUCCESSFUL AYBSHIRE SALE The consignment sale of Ayrshire sat-the consignment sale of Ayrshire sat-the sale and the imperial folicity is satisfied at the imperial folicity is the same sale of a satisfied and the satisfied at the imperial folicity is the same satisfied at the satisfied

An Outside Entrance to the Cellar is an All-round Convenience. Why Not Construct One of Concrete?

Not Construct O "On "t are a spur." "Oh, "I leave 'em off." answered jimm, "Fact is, they're mostly for rornaments; don't use 'em 'ceptin' Pepper gets ornary, an' he's quit has stating his rein. But Pepper 'as stating his tech, and bolted after he infensive Dash, who sprane into his kennel just as Pepper was about to seize him by the tail. Jimmy staddle, waring mildly, Then, grup-ing the rein tightly, he clapped in part of the peper, as I circled round target." "Pepper, we old here." sarcastically "here ye've gone an' busted yer good rejution all ter pieces. Tain't no good tryin'ter make yer respectable, south." Take rather reluctantly consented,

Jack rather reluctantly consented, then Jimmy having completed ar-rangements, turned his horse in the direction of the "two-bar" ranch. (Continued next week.)

A pan of water in the bottom of the oven keeps the bottom of a cake from burning.

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15

John Hooit, Iniscikle, \$109; Mars of Perm-brock, Er. Magnet, Putnam, \$62,00; Hol-wood Brown Primer, Putnam, \$62,00; Hol-Words, Parkawan, 875,50, Buil Oalves: Sir Mischan of Gien Pergus, Bourge Rouisen, \$52,00; Howod Jupiter, Bourge Rouisen, \$52,00; Howod Jupiter, Arbur Hadler, Massign School (China Arbur Hadler, Massign School (China) Arbur Hadler, Massign School (China) Arbur Hadler, Massign School (China) (China), School (China), School

of anie \$4,50.00. APRINES 17 PAO: OWN and helfers hat her her, and the Becord of Performance test in the Becord of Performance test Muture Chas. Mutur

Four-Year-Old Class.

And of Utilovic Josofe Files rom. minit, our walker. Four-Year-Old Class. The second s

WHAT JERSEYS CAN DO. THE following tabulation of the yield of milk, fat and butter in authenti-best catad yearly tests of Jerseys, are the 1420 twoor of Jersey producing ability, 1420 twoor of Jersey producing ability, 1420 the second second second second milk, 303 lbs. fat, 45 ba. 85 per cemt. butter.

mins, soo ice. fat, 415 ibe. 85 per cent. butter. 769 three-year-olds, average, 7,569 ibe. milk, 369 ibe. fat, 469 lbs. butter. 359 four-year-olds, average, 5,571 ibe. milk, 469 lbs. fat, 588 lbs. butter. 1,461 cows, five years old for over, aver-age, 587 ibe. milk, 479 bb. fat, 564 lbs. but-age, 587 ibe. milk, 479 bb. fat, 564 lbs. but-

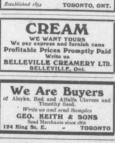
see, 547 lbs. milk, 479 lbs. fat, 664 lbs. but. ..., 45, cowe al. before, all aces, average, 10 toroyan, 45, average, 40 lbs. butter, 10 toroyan, 45, average, 15, 33 lbs. milk, 10 toroyan-oids, average, 15, 33 lbs. milk, 10 toroyan-oids, average, 15, 35 lbs. milk, 10 toroyan-oids, average, 17, 35 lbs. milk, 10 toroyan-oids, average, 17, 35 lbs. milk, 10 toroyan-oids, average, 17, 36 lbs. milk, 10 toroyan-oids, average, 17, 36 lbs. milk, 10 toroyan-oid record, 15, 37 lbs. milk, 10 toroyan-oid aready, 15, 37 lbs. milk, 10 toroyan-oid aready, 15, 37 lbs. milk, 10 toroyan, 10 toroyan, 10 torow, 10 torow,

20,000-LB. BLOOD.

9:846-LB. BLOOD. In the way of record yearing backing the bord of W. A. McBiroy of Chesterville is culture and has established a position that the setablished a position Blillado Parza are five females that have made records over 30,000 her. From this herd at the present time, there are no after granden and also a couple of similar breeding, and also a couple of sinte breeding, and also a couple of simila











FARM AND DAIRY

The Makers' Corner Butter and Cheese Makers are in. Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters reinting to cheese making, and to suggest subjects for discus-

Butter and Cheese Makers are in-vited to sond contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

Liability for Adulteration

A DECISION recently handed down in a Peterboro court by His Honor Judge Huycke, is of ⁴ ^A His Honor Judge Huycke, is of particular interest to dairymen gen-erally. Harold Sanderson, a milkman, had previously been convicted by a magistrate for selling deteriorated nulk, Mr. Sanderson's defense was that he had purchased the milk from a dairy farmer in the neighborhood of Peterboro and did not know that in direct that Mr. Sanderson 'did not do nor authorize the contemptible as well as illegal act. The only mestion do nor authorize the contemptible as well as illegal act. The only question then remaining, is, can the convic-tion stand, no mens rae or guilty knowledge being shown on the part of the accused appellant. It was strongly urged he should and could not be convicted unless it was shown he either did or knew of the unlaw-ful act. I have concluded the Statute

the quotation on four per cent, milk is \$2.54; 4.1 per cent, \$2.68; and 4.2 per cent., \$2.62. Milk testing below 3.9 per cent. is subject to a deduction of four cents per logallon can for each tenth of one per cent. of fat lacking. When the milk drops to \$2 during spring and fall, the amount added or deducted for each .1 per added or deducted for each .1 ner cent. of fat is three cents, and the same reduction holds in the summer months when \$1.80 is paid. Milk testing below 2.8 per cent, is paid for on a sweet cream basis. Milk falling below the legal standard for solids— not fat, is also subjected to deduction.

Alberta Dairymen Meet

HE dairymen of Alberta held their annual convention at Cal-gary, December 15 and 16. Re-I A their annual convention at Cal-gary, December 15 and 16. Re-ports indicate a most eatisfactory growth of the dairy industry in Sunny Alberta. For the rear ending October 31st, the creamery butter production was 7,400,000 pounds, as compared with 5,460,000 pounds. The previous year, and with 86 creameries as against 46. The largest increases



Gem of Craigielea, One of the Guelph Dairy Test Winners. She is owned by H. C. Hamill, Markham, Ont., and in the 72 hour test prod 134.9 lbs. of milk testing 3.9% fat, the best production of a three-year-old Ayrs This was the most closely contested closes of the dary test, Jao. McKee of Nor 21, following close behind in second, third and fourth piaces.

is an absolute prohibition-that knowledge or lack of knowledge are not material elements of the case. A milk vendor must sell pure milk. The consequences are too serious if he does not-he cannot take refuge under lack of knowledge or guilty mind. It is clear, therefore, that the law

fastens the responsibility on the sell-er of the adulterated milk. The convicted vendor might sue for damages from the real offender, however, the man who watered or otherwise adul-terated the milk.

Graded Milk Payments

OR several months now the Cres-F cent Mik Company of Winnipeg, Man., dealing in all kinds of milk products, have been paying for sweet milk on the basis of its butter fat content. The plan has been in ar content. The plan has been in operation since last spring, and so far has been very satisfactory, and the manager, Mr. Jas. M. Carruthers, informs Farm and Dairy that they "expect no difficulty in continuing again this coming year. Although prices may be modified, the principle will be upheld."

in production was in Southern Alberta-60.75 per cent.--where clin tic conditions are more favorable. Ninety-six per cent. of the total creamery butter production was made from cream which had been bought paid for on a grade basis, Cheese making is a new industry in the pro-vince. Thirteen factories produced 372,693 pounds of cheese, as compar-ed with 70,581 pounds in three factories in 1914.

H. A. Craig, Deputy Minister of Agriculture, presented the trophy and gold and silver medals which had been awarded in the season's butter and cheese competitions. Following

and cheese competitions. Following are the winners: W. H. Jackson, Markerville, trophy and gold medal: W. Hanson, Innis-fail, silver medal; J. J. Skalitaky, Viking, silver medal; A. A. Munco, Elnora, silver medal; A. A. Murco, Cardston, silver medal; A. Seversen, Calgary Central Greamery, silver medal; Alex. Storar, Carlyle Dairy, Calgary, silver medal. Addiresses were given by S. G. Car-

Calgary, silver medal. Addresses were given by S. G. Car-lyle, Superintendent, Demonstration Farms of Alberta, on "Soutiable Feeds for Dairy Cows," G. H. Hutton, of "Grading up a Dairy Herd," and Geo. H. Barr, Chief of the Dairy Division Ottawa cave an illustrated cardine and the moon for the control of the difference between the sun and the moon for Pupil: Please, sir, the sun's the moon because he goes to bed Division Ottawa cave an illustrated cardine and the moon for the sun and the sun and the sun and the sun and the the moon because he goes to bed Division Ottawa cave an illustrated earlier. According to the recent "hedule for Dairy Cows," G. H. Hutton, of bet got out by this company, the price Lacoube Experimental Station on for the winter months is \$2.50 per "Grading up a Dairy Herd," and bigger 10-gallon can. In November, Decem. Geo. H. Barr, Chief of the Dairy the mo ber, and January, the milk must test Division, Ottawa, gave an illustrated earlier.

address on "Dairying in Canada." The second day of the convention was strictly the butter makers' day. Mr. Bart speaking on "Pasteurization of Cream for Butter Making," and H. S. Pearson and N. Larson on "De-fects in Creamery Butter," A cream-ety butter exhibit was held in com-pection with the convention the choil nection with the convention, the chal-lenge trophy for the highest average in two classes being won by H. W. Trimble of Red Deer.

Resolutions adopted at the conven-tion requested the Department of Agriculture to place two butter graders at Calgary and two at Edmonton, and that the graders be changed vice versa at least once a month. A stan-dard butter box of 12%/32%/311% inches inside measurement, made of clear spruce lumber, kiln dried, plan-ed on all sides and edges, paraffined inside, was adopted. A progressive stand was taken in a resolution re-commending the adoption of pasteurization of cream for butter making.

Economic Development Commission

THE Economic and Development Commission for some days has been in session in Ottawa, dur-

ing which time, it carefully consider-ed a great many excellent statements, from various associations and many individuals throughout the Dominion, made in response to its re-quest at the first meeting in November. The Commission has adjourned to meet again in Ottawa, the 'atter part of January, when it is expect-ed that a very considerable further mass of information will be avail-

The Commission invites the hearty The Commission invites the hearty co-operation of the Canadian public in the work which it has in hand. While, as above stated, it is taking steps to secure the assistance of in-dividuals and organization likely to be able to furnish information of value on these and other matters com-ing within the scope of its work, it is to be understood that any person desirous of presenting written state-ments or appearing personally before the Commission, will be accorded every reasonable opportunity of so doing. Communications in this re-gard addressed to "The Secretary," doing. Communications in this re-gard addressed to "The Secretary," 22 Vittoria St., Ottawa will receive prompt attention.

Farm Seed Supplies (Seed Branch, Ottawa)

F^{IELD} and garden seed supplies are practically assured for the 1916 planting. There is a scar-

city in American grown crops, includ-ing beans, onions, and to a lesser extent sweet corn. Amongst the im-ported stocks, swede turnips are are rather short, also spinach and salsify and some varieties of carrots. Red clover and alfalfa are unusually short and show an advance in price from 30 to 75 per cent. Other kinds that might be used as a clover substitute, as alsike, are higher in price than the supply would otherwise warrant. Well-established Canadian seed houses with contracts made two or three years in advance will have no serious trouble this season in taking care of their regular trade. Seed merchants, who depend from year to year on the surplus stocks that may be offered, may have less assurance as to the character of their supplies.

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SEMI-OFFIC FRIESIA

1. Canary V 182d; 16668 lbs butter.-J. M. 2. Koba De milk, 447 lbs. Farm. 3. Hazel Ma 10861 lbs. mill ter.-John Jo

1. Lilith Par

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January 6, 1916

FARM AND DAIRY

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Before



One of the Longest Lines of Pure Bred Cows in Canada.

Altogether there are over 40 pure bed looked now and heifers in this line us in the dairy stable of the Allison Shock Farm, Durada Go. Ont. Including Max Boho and others of the same line of breeding.

HOLSTEIN-FRIESIAN NEWS

946, 37, 153d; 19902 ibs. milk, 719 ibs. fat. 896,75 ibs. butter.-J. M. Steves. 2. Aaggie Wayne of Hickory, 17978, 37, 136d; 13195 ibs. milk, 459 ibs. iai, 556,25 ibs. butter.-Hospital for Insame, Hamil-

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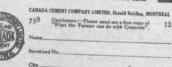
It contains LSU pages like those shown here-II6 pages give practical instructions for improving your farm, explaining the most economical way to construct all kinds of buildings, walks, foundations, feeding-floors, walls, troughs, tanks, fence-posts, and 45 other things needed on every farm.

Out every tarm. There are 14 pages of information vital to every farmer who intends to build willo. 22 pages show what concrete is i, how to place that tools needed; what kind of sand, stone and out is in the tools needed; if sto, etc. In fact it tells everything measure it, sto, etc. In fact it tells everything measured building material-Concrete.

This book is the recognized authority on farm impre-and has benefited 75,000 farmers. If you haven't a copy of this valuable book, one will be sent to you free. Simply fill in coupon below and mail tor'ay.

CANADA CEMENT COMPANY LIMITED, Herald Building, MONTREAL

CUT OUT AND MAIL



AYRSHIRES

18



MARKET REVIEW AND FORECAST

CONSTRY, Jack 4.— The new year one of the dark weak of the back of the dark weak of the back of t

MILL FEEDS. There is a tondency for higher levels, the demand for bran being particularly good. On this variet bran is quoted \$39; shorts, \$25; midalings, \$25; feed flour, bac, \$1.60; olf cake mes., \$37; gitten feed, \$53. At Montreal bran is \$91; shells, \$21; ball dings, \$25; by a ver aver, ball, \$25; to \$35.

Argentina, and india all have great with planes for export, build all set hampered by planes for export, build all set hampered by the hamper

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MONT MON'I very of rain. to the about o beef, 5c 7c to 10 -G. A.

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SALM up of t plowing way. Pr 80c; pot \$10; chi cattle a almost i since d ket.-J.

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January 6, 1016

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lides; flat, ured, 15½e ins, cured, c: deacons rses, take-50 to \$3.50 horsehair.

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t is quiet, ng as they y has sold s at 24%. i they are port trade as asking er at Mon-Toronte made, 32e 340; dairy 20 to 25c. adian mar-it is now of the ex-aggregate

aggrega noice Wes

live stock last week. te and the mall. No be carried ady choice butchers', d. \$5.75 to poice cows. 25 to \$6.25: \$6 to \$6.76: and cui-

has revived now runs n cows are ers, 350 to to \$10.50.. is stronger teep, \$8 to

nd this has ot. Packers oars, and b. country and water-

JAN. 1711 the herd of ire herd is with that , there are

Oalamity the highest ni. of which r their in-ed, clearly f the famil-great young and dam, is a, while his has a 22.44 the cows in pred to this after the Oalamity

a Beets De M.94 lb. but-to freshen rood enough t calf, born ire, Ormsby nnie Boner-The average 's dam and 's dam and er in sever

a fine large o "Golantha a attraction for a small unarter. ord show up lls, any one make a good

earling heif-Sir Marcus d size, and bt prove as inters if giv-a very fine that is "as In fact, Mr. through, are ing is to be many people strong's sale

January 6, 1016

last year was one of the most successful of the season and no pains are being spar-ed to make this the most successful sale ever held in Tillsonburg. Be sure to write

retary. b. 16th. Norfolk Holstein Breeders'

******** **OUR FARMERS' CLUB** Correspondence Invited

PRINCE EDWARD ISLAND

PRINCE EOWARD ISLAND MCNASS Co., P.E.I. MONTAGUE, Dec. 18-We are having a very copen factor of the second second rain. The warm wrong yet, but a is of the stock. The shipping is a great help about over. Prices, butter, 30 to Shuber, 50 bef, 50 to 70 its weight, eggs, Sho, Fork, 70 to 100 a 10.; hambs, 50 to 50 live weight, -0. A. NOVA SCOTIA

NOVA SCOTIA CAD BERETON CO. N.S. " BALKON RIVER, Dec. 17.-The freesing up of the grund has put a stop to fail way. Pricee are as follows: Haw St under way. Pricee are as follows: Haw St under way. Pricee are as follows: Haw St under state of the state ONTARIO

GRENVILLE CO., ONT.

NORFOLK CO., ONT.

NORFOLK CO., ONT. PORT BURWEILD becomber 31. - The weather is mild and warm. Christmas tudels dull. Hogs are shipped at 84.56 a cet. Farmers are husy drawing wood for grain of all hinds is sarres and high. all classes of stock very high. Dairy owe are griving a good flow of milk. Peeding dairy sattle systematically is a very important factor in mised farming-P, E. F. alberta

EDMONTON DIST., ALTA. EDMONTON DIST., ALTA. ROMAS HILLS, Dec. i.G.-We are having fno weather but no sielghing yet al-hough we had nine below sero. The busy healing: as we have the Switt Com-tain Packing Plant and the P. Burns Co. Limited Packing Plant to supply with green feed. Straw and hay. They are

Maple Villa Stock Farm, Boton, ont., Dec. 24, 15, Part Dark, Boton, Boton, Gottimmen,-Enclosed please find octal note as payment for my re-cent ad. In Farm and Dairy, It did the desired Trick. Sincereby yours, R. W. JOHNSTOK,

R. W. HUMANDAY, Short and to the point is this let-ter from one of our readers who keeps pure beed Rolateins and uses FARM AND DAIRY in selling his best stores and the same po-sition are first solution with us, Write us to-night shout selling any unplus slock you have on hand, on induc insertion wrote you rates on induc insertion wrote you rates on throughout the year. FARM & DAIRY, Peterbore, Ont.

FARM AND DAIRY

feeding quite a number of eastle this where, Ray is solling at \$30 atraw, \$4: come, and \$6: Hogs are worth \$75, or come, and \$6: Hogs are worth \$75, or eges are \$60; out out of wayons. Fresh eges are \$60; out out of wayons they, solling at \$30 at 100 at 100 at they, solling at \$30 at 100 at 100 at 100 our Farmers' Club a Merry Christens and a Prosperous New Year, including Farm and Dairy-of, E. T.

BRITISH COLUMBIA NEW WESTMINSTER CO., B.C.

NEW WESTMINSTER CO., B.C. OHILLIV ACK, Dec. 20. "The weather at present is very mild." The work of a barry at there has not been any for the sec-al title white front. Last year at this present and the second second second second at the second second second second second at the second second second second at the second second second second and the second second second second and the second and present second second second second and present second second second second and present second and present second se

THE SALE AT MT. ELGIN.

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NEW FOUR-YEAR-OLD RECORD

NEW FOUR-YEAR-OLD RECORD TOTOL, Farm and Dairy,—I am pleased to be able to report that the Holtetto the set of the set of the set of the the set of the set of the set of the the set of the set of

JUDGES AT OTTAWA.

HE following judges have been appoint-ed for the Ottawa Winter Fair, to be held in Ottawa, Jan. 18th to 21st.

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HARDLY HIS FAULT.

O FFICER (severely): "Is this rifle sup-posed to have been cleaned ?" Recent Recruit: "Well, sir-yes. But you know what these servant gals are!" -Punch.



-Homestead Holstein Stock Farm-

Offers choice young Cows and 10 Reifers coming 3 years old, due to fremhen next March and April, bred to the imported size Judge Hengevoid Das to fremhen next decord of 11% is hown butter in 7 days and his sister bolds 3 ear old whone decord of 11% is hown butter in 7 days and his sister bolds 3 ear old and built calves ready for service next size. Also 4 Reifers ready to breed, and a few built calves ready for service next service. Priced low for quick sais B. R. BARR, Harrietaville Stn., C.P.R. MOSSLEY, P.O.

L. D. Telephone via D.

R.VERSIDE HOLSTEINS for Main Chrise Young Buile, stred by even of Fonniae, Korndyre, and a brother of Pontiae Lord Korndyre, and grand-in 7 days, 1669, Horney even of Pontiae Lord Korndyre, and the Vine Alles Grande Bord to the Califordia Control of the Stredge Bord to the Califordia Control of the Stredge Bord to the Stredge Bord to the Califordia Control of the Stredge Bord to the Stredge Bord to the Califordia Control of the Stredge Bord to the Stredge Bord to the Califordia Control of the Stredge Bord to the Stredge

SHEAD OF REGISTERED 60 HOLSTEIN CATTLE 60

From the Herds of the

Brant District Holstein Breeders' Club

To be Held at the Old Commercial Stables, Brantford, Ont.,

WEDNESDAY, JANUARY 26th, 1916 At 1 P.M.

The offering consists of 55 Females of all ages and five Bulls fit for service, including several cows and heifers with very creditable records, two 20-lb, mature cows, one 15-lb, 3-yr, old and others equally good. Every purchaser will be assured a square deal as there will be absolutely no by-bidding or bidding in terms. Cash or credit from one to eight months on bankable paper with interest at 6 per cent per annum.

SALE UNDER COVER

W. H. SIMMON, Pres. R. J. KELLY, Sale Mgr. i New Durham Culloden

N. P. SAGER, Secy. St. George the Secretary for a Catal

ALMAS & PULLEN, Auctioneers





FARM AND DAIRY



20

As based in our last issue, we have been negotisting with the wholesalers who have been supplying us with our 40-bleec tea sets with a view to getting control of the sock of these premiums which they still had on hand. The war has interfered with the trade in semi porcelain and we had expected to hear that the supply was near-ing cahaustion. To our surprise we learned that there were

January 6 1016

ONLY 60 SETS LEFT

tor us. We at once sent in a covering order reserving them for our women folks, and we are sure that they will not be slow in availing themselves of this last great opportunity of securing this premium. Gur 40-piece tea set has proved to be so popular with our women readers that we are sure that when they hear that the supply is so nearly exhausted that the balance will

Go Like Hot Cakes

and it will only be a short time until we have to drop this popular premium. We are sorry to have to do this, for in the past two years several hundreds of them have been won by our Women Folks and we have received hundreds of letters expressing the surprise and delight of those who have secured them. However, we shall have to bow to the inevitable, and while the supply lasts our motto will be

First Come-First Served

The set consists of 40 pieces; is in scml porcelain and is decorated with a gold band. It consists of 12 cups and saucers, tweive tea plates, two cake plates, one cream jug and a slop bowl.

Call up your neighbors over the telephone, get four of them to subscribe to Farm and Dairy at \$1.00 each, and we shall order one of the tea sets for you as soon as we receive the subscriptions.

Circulation Department

Our 40 Piece Tea Set Farm and Dairy - Peterboro, Ont.