

FARM AND DAIRY



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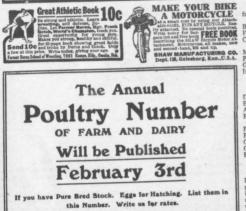
- I. EFFICIENCY-The "Simplex" is the result of thirty years' experione with Cream Separators and ten years ex-perione with Cream Separators and ten years' experience in manufacturing "Simplex Link Blade Separators." The exper-ience of these years is embodied in the new "Simplex" for you.
- SIMPLICITY—The "Simplex" is the simplest in construction of all separators. It has fewest parts of any make and can be of all separators. I operated by a child.
- SMOOTH RUNNINC—The "Simplex" bowl will always run smooth and true even if out of mechanical balance.
- NOT AFFECTED BY WEAR—As the "Simplex" wears instead of becoming noisy and running harder, as in other makes, it will continue to run easily and smoothly.
- 5. LIVES LONCER-The greatest wear and tear of Separators is caused by the uneven running of the bowl. The "Simplex" Self Balancing Bowl is never out of balance, consequently there is the minimum amount of wear and tear, and the life of the Separator is greatly increased.
- 6. A MONEY-SAVER—The "Simplex" is so light running and turns so easily that it does the work in half the time required by other makes, and cuts the labor of skinming more than in two. This means a big saving in time and money.

The other ninety-three reasons you will soon find on your first trial of the "Simplex." Write us for literature on the "Simplex" and the testimony of satisfied users.

D. Derbyshire Co., Ltd.

Head Office and Works: BROCKVILLE, ONT. Branches : PETERBOROUGH, Ont., MONTREAL and QUEBEC, P.Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



Eastern Ontario Dairying on the Increase A Satisfactory Season Reported at the E. O. D. A. Convention.

A Satisfactory Season reported THE attendance was rather smaller Convention of the Eastern On-tario Dairymen's Association held at Renfrew on Jan. 5 and 6. The usual list of good speakers were on hand and delivered addresses, bui the pre-valent epidemic of La Grippe prevent-of some speakers from attending. valent epidemic of La Grippe prevent-ed some speakers from attending, smong these being Frank Herns, of London, and Mr. Leitch, of the O.A.C. The program was enjoyable and instructive throughbout, though the speakers had some difficulty at times in making themselves heard owing to the noise created in a pool hall overhead, and which seemed to be patronized liberally at all times of the day. the day.

President Sanderson, of Oxford Station, in delivering the annual pre-sidential address, welcomed the delegates and congratulated them on the privilege of meeting in the creamery town of the province. "This year has been a record year in all branches of the dairy industry, but especially so in the cheese end of the business, and the scalar provide the second provided the second provide and the results are convincing proof that the dairy industry is one of the greatest factors in production in the Dominion," said Mr. Sanderson. "Keener interest than ever before has been shown in everything that tends to increase and improve the tends to increase and improve the business by all concerned in the in-dustry. District dairy meetings, herd improvement work, the work of district representatives and the an-nual factory meetings have all re-ceived greater attention than ever be-fore."

Secretary's Report

Secretary T. A. Thompson, Al-monte, reported that the year 1915 had been a banner year for the dairy in-dustry of Eastern Ontario. The sea-on had been forwards to be sear son had been favorable for production son had been tavorable for production and the average selling price for both butter and cheese was the highest ever obtained. The dairymen of Eastern Ontario had shown their patriotism by sending 40,000 boxes of that for the scason of 1914. There was not the improvement in the nuality of milk produced an the farm was not the improvement in the quality of milk produced on the farm that there might have been, and makers should be more exacting in the acceptance of milk at the fac-tory. The adulteration of milk by drastic measures to deal with the situation are required.

Financial Statement

The auditors' report showed the following :

Receipts:	
Balance from 1915\$	582.54
Fines from prosecutions	498.50
Convention Grants from Pet-	
Convention Grants from Fet-	300.00
erboro City and Council	115.00
Members' fees	
Program advertising	230.00
Government grant	,250.00
Interest	18.81
81	,994.85
Expenditures:	
Directors' expenses	349,65
Expenses of Executive	185.20
Advertising and Printing	411.55
Advertising and Frinting	222.00
Expenses of District Meet-	143.25
ings	
Publications	85.40
Postage, Stationery, etc	66.77
Officers' salaries	600.00
Official Stenographer	90,00

Expenses for prosecutions .. 329.90 \$2,646.79

The annual report of Chief Dairy Instructor Publow reflected the pros-perous state of the dairy industry durperous state of the dary industry dur-ing the past year, but it also called attention to the great improvement which still remained to be made in Ontario dairying. During 1915, 847

cheese factories were in operation. A total of \$66,000 had been expended by 479 owners for upkeep and improve-ment of factory and equipment. From May 1st to November 1st a total of 327,000,000 pounds of milk had been delivered to these factories and 85, 000,000 pounds of cheese had been manufactured, an increase of 8,000,manufactured, an increase of 5,000,-000 pounds over 1914. Owing to the fact that the cheese seasor, is lasting longer than usual this year, the total output for the season would probably exceed that of 1914 by 16 per cent. The high price of cheese had brought the high price of cheese had brought I ne high price of cheese had brought many patrons back to the factories so that the total number of patrons of Eastern Ontario cheese factories was 29,607 for 1915, an increase of 1,100.

29,607 for 1946, an increase of a second puring the season 35 persons were found guilty of supplying either skimmed or watered milk to the factory, and fines ranging from \$10 to \$50 each were imposed.

Creameries

Mr. Publow stated that during this Mi. Publow stated that during this season 38 creameries were in opera-tion in Eastern Ontario, and that new ones had been established at Nap-nee, Cornwall and Arnprior. All but two of these were reported as be-ing in a satisfactory condition; 28 were eulped with good storage facilities; 12 collected the cream three times a week and 26 twice as weiching the samples for testing with weighing the samples for testing with Babcock Test. From May 1st to Babcock Test. From May 1st to October 31st, 2,800,000 pounds of butter were produced, a falling off in the total make of 200,000 pounds since last year. Whey butter to the amount of 381,000 pounds had been manufac-

of 381,000 pounds had been manufac-tured in cheese factories. Some 4,855 patrons supplied the crean to the regular creameries during the season, about 100 less than in 1914. Considerable discussion took place concerning the regulations of the Railway Commissioners regarding the style of box to be used by cheese shippers next year. Both box makers and factory owners are protesting and factory owners are protesting against the regulation, claiming that they have a considerable stock of old boxes on hand which would prove an absolute loss should the regulation go into effect next spring. President go into effect next spring. President Sanderson cited an instance in which the old style boxes had been refused at the railway station this fall, and held for several days in cold weather before being allowed to go forward. The feeling of the convention was that the time should be extended for the disposal of old stock, and the matter is being taken up with the Railway Commission.

matter is being taken up with the Railway Commission. The Barr, of the Dairy Depart-ment, Ottawa, led the discussion re-arating standard sizes for milk and cream cans. He stated there is no ream is concerned, but that since milk is sold by the can the size of these should be strictly revulated. In-stances had come to light where cans holding almost a quark more than the stances had come to light where cans holding almost a quart make than the standard size had been given out by milk dealers, with the result that they noney. Where the trade in milk is heavy, there is no time to weigh milk and the size of the can should there-fore to standardized. Others Far 1916

Officers For 1916

Officers For 1916 The following officers were elected for the ensuing year: President, J. N. Stone, Warkworth: First Vice-Pre-sident, R. G. Leggatt, Newboro: Second Vice-President, Jos. Mc-Groth-mouster, Treawrett, Terth-mouster, Almonte: Treawrett, Grath, Mount Chesney; Secretary, T. A. Thompson, Almonite; Treasurer, Jas. R. Anderson, Mountain View; Auditor, M. Bird, Stirling. Execu-tive Committee-Messrs. Glendin-ning, Fraser, Olmstead, McGrath, Sandersse, Leggatt and Ferguson.

Trade VOL 11165 O NE th Chester nice ind tor, and of the centre, Kendric if he h mention dozen 1 making dairy f man K years be a rented not bee farm of

> county. The] claimed herd of stock, a the land of it w Even un ing is how he thing n had fol other i men. 1 well, ra them to the praof good drick h ness ma is mere old trut road to all earn with M:

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January 13, 1916



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.

VOL. XXXV.

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No. 2

Nineteen-Cow Dairy on a Seventy-five Acre Farm The Farming Methods of a Young Dundas County Dairyman who is Making Good .-- By F. E. Ellis. THES

ONE of the many dairy farms in the splendid district. around Chesterville, Ont., that is making a nice income for its owner and operator, and also adding to the reputation of the district as a milk producing centre, is that of Roy Kendrick. Mr. Kendrick is a young man. I doubt if he has yet seen 30. Yet he was mentioned to me as one of a halfdozen men of his township who is making an outstanding success as a dairy farmer. I was told that this man Kendrick had started only six years before with little capital and on a rented farm. All of his income has not been made from his own small

farm of 75 acres, I was told, but the most of it has. His, so the story ran, was one of the most intensively worked dairy farms of the entire county. I decided to investigate for myself.

The Kendrick farm I found to be all that was claimed for it and more. The 75 acres support a herd of 19 milch cows, three head of young stock, a herd bull, and five horses. Of course, the land is good. It is rich, clay loam, every foot of it workable, and not a stone on the place. Even under these conditions, however, the showing is an unusual one. I asked the proprietor how he did it. He assured me that he had nothing new to add to agricultural lore, that he

had followed the lead of all other really successful dairymen. He has treated the land well, raised good crops, and fed them to good cows. Along with the practice of these principles of good farming, young Kendrick has combined good business management. His success is merely"another proof of the old truth that there is no royal road to riches, if the dollars are all earned honestly. My talk with Mr. Kendrick gave me a

very fair idea of the methods he had used. And they are capable of wide application.

I. Growing the Crops

The 75 acres in the Kendrick farm cannot be said to produce all the feed for the stock I have enumerated. All of the roughage is grown on the home farm, and enough grain for the horses and hens, but \$400 worth of concentrates is purchased each year for the dairy herd. These concentrates, Mr. Kendrick believes, can be purchased more cheaply than coarse grains to take their place can be grown. His main effort is devoted to the production of roughage in great quantities.

The farm is laid out in big square fields which



The Dairy Herd Is a Mixture of Pure Bred and Grade Holsteins.

facilitate the following of a systematic rotation, which covers four years. Eighteen acres are devoted to hoe crop, of which all but one and onehalf acres is in corn. The remainder is in sugar beets and turnips. Eighteen acres is in grain seeded down, but just 10 acres of the grain is threshed. The remaining acres are seeded-to oats and peas and fed green. The other half of the farm is divided between hay and pasture.

When Mr. Kendrick came on the farm he found it badly infested with quack grass. He is not entirely rid of the pest yet, as it thrives exceedingly on his rich, clay loam, but it is no longer a menace. Occasionally Mr. Kendrick has folgoes a long way towards supplementing the pasture. One year buckwheat was tried, one land being seeded each week from June 10 to July 17. A wonderful quantity of green feed was got from the buckwheat, it excelling peas as a supplement to dry pastures. Mr. Kendrick, however, regards ensilage as superior to either, and this year when the cows went to pasture he had 10 feet left in the bottom of a 14-foot silo. With the excellent moisture conditions that have prevailed, this would almost carry him through.

2. Winter Feeding

Mr. Kendrick has an eye for good cows. His 19 head are a mixture of grade and pure-bred Holsteins, big cows all, and voracious feeders. - Incidentally they pay for what they eat. For such cows the main requirement is an abundance of ensilage. There are two silos in this 75-acre farm, one of them 20 feet in diameter and 22 feet high and another 14 by 18 feet. Both of these silos were filled last fall, then refiiled, and even then three acres had to be fed from the stook. It is on this corn crop that the main dependence is placed for winter feeding. Last year when hay was exceedingly scarce, the stock was wintered through on ensilage and oats and peas cut green and cured for hay. The cows

milked well on this feed.

As I stated before, the grain bill for the dairy herd amounts to \$400 a year. The milch cows receive one pound of meal to every four pounds of milk. The mixture favored by Mr. Kendrick is as follows: Cottonseed meal, 25 pounds; oil cake meal, 25 pounds; shorts, 100 pounds; bran, 100 pounds; and oat chop, 100 pounds. Even the last item in the mixture is purchased from off the farm. Winter dairy-

lowed the practice of following corn two years in succession on a badly infested piece of ground. Constant cultivation keeps the quack out of sight the first year. The second year the corn is planted between the two rows of the year previous. This method has been found effectual in ridding the worst infested fields of quack. Another method followed has been to plow deep the first of June when it is dry, then plant to corn and work the corn thoroughly. The variety of corn preferred is the White Cap Yellow Dent.

One of the problems on this farm has been to provide pasture enough for all of the stock, and supplementary feeding has been practised from the first. The eight acres of green feed ing is the specialty; a good price is secured for winter milk, and winter feeding on purchased concentrates has always been profitable. Probably too, the fertility of the Kendrick farm is due in no small measure to the fertilizing value of the concentrates fed.

3. Marketing the Milk

All of the milk is shipped to milk dealers in Montreal. Mr. Kendrick's contract calls for seven eighty-pound cans a day the year round. To meet this contract, however, he buys considerable milk from neighbors who would otherwise ship to the cheese factory, and the profits made on this purchased milk is the one source of income outside of the farm itself. At the time



The Kendrick Farm is One of the Best Improved in the Chesterville District.

of my visit, Mr. Kendrick was shipping '20 to 22 cans of milk daily.

It will be seen that the methods practised on this Dundas county dairy farm are neither unusual or startling. They are sure. They have proved so in the case of Mr. Kendrick. It is as an inspiration to other young men like him, who are wondering what there is in the farm, that I give the personal side of this story. It is just six years ago last spring since Mr. Kendrick moved on to the farm he now owns. He had about \$800 in effects, but no cash, and he came

FARM AND DAIRY

on to the farm as tenant, not as owner. He also came as a single man, but he no soon: "had the seed in than he hastened to take to hims.dl a wife. At the end of one year as a tenant, he purclased the farm, paying nothing down. That he has prospered is shown by his own statement that the profits of another year or two will make him complete owner of 76 acres of the richest land in Dondas county. In fact, the place would have been paid for already had so much not been invested in improvements. The improvements however, are returning a larger percentage of

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profit than the mortgage cost. Among other items were eight head of registered Holsteins and a registered Clyde mare. The farm home is a brick house of modern construction, setting well back from the road, cnd made doubly attractive by the trees that surround it. The only feeling of regret that I had on leaving the Kendrick farm was the knowledge that Ontario may soon lose Mr. Kendrick. He has done well in Dundas county, and is now looking for a wider field. Etc now, for all I know, he skay be in the dairy business in Calgary.

Just Why Dairy Farmers are Interested in Cow Testing A Graphic Representation of its Advantages by Chas. F. Whitley, Ottawa.

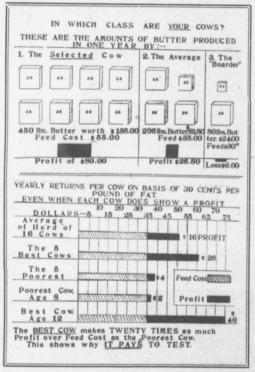
T HE upper chart herewith gives as a diagram the comparative yield in boxes of butter of three types of cows. The first, selected, both fed and bred for production, is a five-year-old grade that gave 11,630 pounds of milk, 450 pounds of butter worth \$135; with feed cost of \$55 her clear profit is \$80. Such cows and better ones have heen discovered through cow-testing. Her owner w not content with an ordinary type, an average cow, for satisfaction of that kind effectually kills and buries all progress, so he selected, using records as a rational basis. The second is the average vietd of 8,200 cows as collected by our recorders at 13 dairy record centres in Outario, Quebec, and Prince Edward Island, namely, 206 pounds of butter worth \$61.80, feed cost \$35; profit, \$26.80. This is probably much better than the average yield of all cows in the Dominion. The third is the type unmasked by cowtesting, desired by no one. In this case it is not just one lone individual cow, but is the average yield of a herd of ten cows in Ontario, 80 pounds of butter worth \$24, and the owner estimated it cost \$30 to feed each cow.

Does this comparison not convey something to you? Is it not worth a very great deal to you to look carefully into this matter of cow-testing, to think in larger figures, to determine that your herd shall speedily be one of selected individuals? The best in everything is yet ahead of us; the best cow is yet to be recorded, helped on by the best in methods, the best in crops, the best in dury farmiing generally, so that our dary herds uniformly excellent events.

herds, uniformly excellent, may be of the finest type possible, always improving. Join this society of unlimited possibilities; become a member to-day, start recording at once.

The Investment in Dairying

Cow-testing has always sounded one dominant note, the selection, on their records, of the best cows. The recommendation is timely in view of the claim that there is an investment by dairymen of from \$500 to \$1,000 or more for every gallon of milk produced per day. Thus the efficiency of every cow is no slight consideration in our huge business of milk manufacture. For every hundred dollars invested in the manufacturing industries of Canada there is reported to be a gross return of ninety-three dollars; in agriculture there appears to be a gross return of seven



teen dollars. Can we do better? Dairy records, through giving what is absolutely essential to every manufacturer, a knowledge of cost of production, have paved for many men the royal road to larger returns; the successful business dairymen to-day make each cow they own stand her trial by the impartial jury of scales, test, and record form. The sentence is soon passed, and several reformatory inmates now pay good dividends.

Another evidence of cow-testing value is found in the largely enhanced profits and increased yields of milk and fat obtained by those wellinformed men who persevere in acquiring knowledge charted in their own stables on the record form. The unit, whether cow or acre, is being studied and developed as never before, because

of dairy records, 'Cow-testing is not hedged about by any trade secrets or any copyright formula. No red tape binds one in making his own simple totals. There is no selfish or sinister competition; but on the contrary there is the greatness of true cooperation in securing results that count very materially in building a better home-farm, supporting loyally the near-by factory, advertising the locality as a good dairy sectione while adding in no small measure to that needed efficiency, which makes true prosperity for the Empire.

In a Herd of 16 Cows

The lower chart indicates graphically the yearly returns from a herd of 16 cows where some selection has been practised and all cows put on a paying basis. With an average yield of 4,850 pounds of milk, 3.5 test, and 170 pounds of fat, with feed valued at \$35 per cow. there is clear average profit of \$16. But it will be seen that the five best cows yielding 204 pounds of fat make \$26 profit as against the \$4 average from the five poorest. Then on comparing the worth of the poorest cow, age 8, giving only 122 pounds of fat, with the 12-year-old giving 247 pounds of fat, we see clearly that it is not a question of one cow returning just twice as much profit because she gives twice as much fat, but the profit is actually 20 times as great.

May I venture to submit that clearer proof could not be wanted of the practical utility of dairy records.

What additional sum is within our reach as direct gain from cow-

testing? Considerable light is shed by the fact that in one creamery in Prince Edward Island over thirty patrons, members of our cow-testing association there, took in double the amount of money per cow last year than they did four years ago, while the other patrons show little or no increase. So it is in many other districts. There is nothing to prevent any factory of 500 cows, if its patrons take up cow-testing in earnest, handling extra money annually to the extent of \$8,000. We have men by the score in Ontario and Quebec now obtaining 1,000 and 1,500 pounds of milk more per cow than two years ago. Scattered all over, we find instances like this, the man who has been cow testing now milks eight cows and gets \$400 or \$430 more cash than the man who does not weigh and sample, but who cont roun Tl getti the still Ca "wh. ho'd and poin

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contentedly or discontentedly (which?) fusses round with eleven unselected milkers.

This grand old province of Ontario could be getting at least another \$12,000,000 income from the cows now milking, and when cow testing is still better appreciated, she will obtain that sum.

Canada expects every cow to do her duty; "what we have," in the way of good cows, "we'll ho'd' ; what we have not, let us see that we get, and we'll get them because cow testing clearly points the true path of progress.

Good Stable Arrangement Gordont Harris, Middlesex Co., Ont.

OWING to the scarcity of efficient farm help and also to lessen the cost of winter milk production, we have found it necessary to have the stable equipped as conveniently as possible. In our stable the cows stand in two rows, 1unning lengthwise of the stable, both rows being fed from the same alley, which I think reduces the work of feeding a great deal. We have a silo at each end of the feed alley, the silage being thrown directly from silo into a feed truck and from this is pitched into the mangers.

The different grains are mixed in the granary overhead, coming down a chute into another feed truck, which can be wheeled to wherever required, thus doing this part of the feeding with as few unnecessary steps as possible. The cattle are watered from individual basins, which are supplied from a tank in the barn, the water being pumped to this with a small gasoline engine.

The stable being reasonably wide gives ample room behind each row of cows to drive through with the manure spreader, and in this way the menuro is hauled directly to the field and spread with very little extra labor.

By using these few conveniences, an abundance of light, good ventilation, and punctuality, winter dairying becomes more of a pleasure than a drudge.

The Value of Grain Screenings J. R. Dymond, Seed Laboratory, Ottawa

DURING the fall and winter, there will be cleaned out of western-grown grain at the terminal elevators at Fort William and Port Arthur, material amounting to probably 100,000 tons. These cleanings consist of from 40 to 60 per cent. of small and

shrunken kernels of wheat, oats, barley and flax. The rest is made up of 25 or 30 kinds of western weed seeds. Wild buckwheat, lamb's quarters, and wild oats occur in largest numbers; among the mustards are wild mustard. hare's ear mustard, ball mustard, stinkweed, tumbling mustard, worm - seed mustard, western and round-seeded false flax, common peppergrass, and the wallflowers. Some of these are recognized as among our most troublesome weeds.

The elevators reclaim as much of the domestic grain as possible to mix with their feed grades. The larger proportion of the remainder is shipped

to the United States, but much of it finds its way into Eastern Canada, where it is mixed with grain and ground up as chop feed.

FARM AND DAIRY



Buildings on a 50-Acre Dairy Farm That Produces an Annual Revenue of Well Over \$2,000.

There are few more productive farms in Ontario than that of Mr. Parnham Allison, in the rich, level district around Chesterville, Ont. Notice how meat are the buildings both residence and contunidings are keep of painted. The latest improvement on the farm is a system of tild drainage, the good shulls from which Mr Allbea described in Farm and Dairy onto weeks ago.

Much of the material constituting the screenings is of excellent feeding value, as shown by the results of feeding experiments at the Central Experimental Farm last winter, and much of it could be used to advantage here. We should not, however, encourage the feeding of screenings in Eastern Canada if it is going to mean the spread of the western weeds whose seeds are contained in it.

Danger of Spreading Weeds

The danger of spreading weeds through the use of feeding stuffs containing vital weed seeds is not sufficiently realized. A farmer in Northern Alberta who has kept his farm free of noxious weeds and who is making money growing registered seed, told me that he could not get, a neighbor to bring his team on to his farm in the spring to help with his seeding, because if he did, when harvest came he would find small patches of wild oats and ball mustard in his field wherever the horses' droppings fell.

An Ontario farmer who wanted to take up the Canadian Seed Growers' Association work got registered seed, put it in his best field and gave it a dressing of manure, which he hauled from a livery stable where western oats had been fed. The result was he spoiled his registered seed, and will have his field polluted with wild oats for several years. Last winter your

One of a Strong Class at the Guelph Winter Fair.

This youngster was one of the competitors in the new class at Guelph for Ayr, shire junior bull ealers. That this excellent individual stood only fourth in his class is the best proof possible of the quiries. He is Resther Kine of SpringNank, owned by Jaa, E. Ross, Mead ownah, Ont. — Dhoto by an seditor of Farm and Dairy.

chairman, Mr. Newman, brought into the Seed Laboratory a sample of rolled oats that a farmers' club had bought. Analysis showed it to

contain 120 weed seeds per ounce, 95 of them being wild oats. Some of them had been crushed, but, we picked 100 of them out of the sample just as they came, and planted them in soil-12 produced plants.

In purchasing elevator screenings for feed, it is essential to buy only recleaned screenings from which all the small seeds have been removed. This not only improves the palatability of the feed, but makes it possible to destroy the vitality of all of the remaining weed seeds by grinding in an ordinary grinder.

The Government is now operating three large interior elevators situated at Calgary, Moose Jaw, and Saskatoon, and a terminal elevator at Port Arthur. All the screenings accumulating at these four elevators this winter will be recleaned to remove the whole Kernels of grain and the fine weed seeds. The remainder, consisting of broken grain and the larger weed seeds, chiefly wild oats and wild buckwheat, will be pulverized and sold in car lots as chop feed. This material is of excellent feeding value, and should be available to eastern feeders at moderate prices. This feed is manufactured and sold by the Board of Grain Commissioners. For samples and prices, inquiries should be addressed to Mr. C. E. Austin, Superintendent of Government Elevators at Fort William. In time it is hoped that all of the material of good feeding value cleaned from western grain will be fed in Canada in such a way as to minimize the danger of spreading noxious weeds.

Samples that are suspected of containing vital weed seeds will be examined and reported on free of charge by the Seed Branch, Ottawa.

At the North Dakota Experiment Station, a group of sixteen pigs pasturing on a field of 23% acres, Minnesota 13 corn, from September 16 to October 21, a period of five weeks, made an average gain of 57 pounds each, or a gain of 1.61 pounds each per day. The weather conditions during that period were not exceptionally favorable to hogging down corn, as there were at least 10 or 12 wet, cold days. On October 13, two of the pigs showed a little stiffness, and were removed from the field. The total gain of the lot was 818 pounds, which at seven cents a pound would be worth \$57.26. In addition to the corn this group of pigs received 178.5 pounds shorts, 108.5 pounds tankage, and 210 pounds barley. This feed would be worth \$6.25, leaving \$51.01 as the value received for the corn by hogging down. This gives a value of \$20.40 per acre for the corn without the expense of harvesting it, even though it was a very poor crop. Disposing of the corn crop in this way may be advisable at times in South-western Ontario

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Commercial Work Maintains Interest in the Burford Grange

The Story of this Successful Organization as Told by Mr. Peter Porter

in Brant Co., last spring a Farm and Dairy representative, hearing of the good work being done by this organi-zation, called on Peter Portor, Overseer, and one of the men whose tenacseer, and one of the men whose tenac-ity and fighting qualities held the Grange together when internal dis-sension started by a small group of interested men, threatened to wreck In the interview that we had Mr. it. Porter glossed over these difficulties, but in telling of their success we can-not do better than relate the story, just as Mr. Porter told it to us. Mr. Porter said :

"We were organized as the Burford Grange, acting under a Domin-ion charter, in 1911. We worked in an educational line for two years, do ing nothing whatever in a commercial way. Interest fell off, and the Grange became almost extinct. Then one of our members, Mr. Chas. Mott, at-tended a convention held in Toronto in 1914. He became enthused, and came home determined to stir up new interest, and we reorganized with seven members, just enough to make a quorum, and make every one an offi-cer. Mr. Mott was elected Master. Our new organization has been a success and we attribute it to the com-mercial enterprises of the organization.

70 Per Cent. Saved on Mangel Seed "We first started buying mill feeds and seeds, such as clover and mangel seed. In some instances we saved 70 per cent. by cooperative purchasing. We got in touch with the Brant Truck Gardeners' Association and sent dircet to Germany, getting a first class line of mangel seed laid down to the members at 11c a pound. We had never touched such seed before short of This s ccess aroused great enthusiasm and at once enlarged the membership to 30. We then saw a chance to get in on sugar and bought

ANCASTER P. O., ONT

Commercial activity and edu- well over two tons. This, too, added cational work are combined to to our membership. Then we took good advantage by the men-up binder twine. At the end of our bors of the Burford Grange. When first year we found ourselves with 60 first year we found ourselves with 60 paid-up members, a growth from seven to 60 inside of 12 months.

"Then our difficulties began. Our dues had been held back on account dues had been held back on account of there being two organizations, the United Farmers of Ontario and the Dominion Grange. We did not know to which of these organizations to acend the money. After receiving suf-ficient information to prove to us that the only way of holding our charter was to send our fees to the Dominion Grange, we found that our decision had aroused some difference of opinion amongst the members and those fees have not been paid yet. We forward-ed our next fees, however, to the Grange.

Business With United Farmers

"The question of smalgamating with the United Farmers then came up, and we took one share in the company. Before this, however, a re-election of officers had gotten the chief trouble maker out of the way and made this move possible. We then undertook to place as much business as we could through the United Farmers' Company, buying oil cake, cot-tonseed meal, middlings, brewers' grains, sugar, seed of clover, timothy, mangel, turnip and corn, binder twine, implements, buggies and democrats

At this present time (early May), acting four months under the present staff of officers, we have dis-tributed \$4,073 worth of goods. We have given satisfaction to everyone, and our membership is now past the 60 mark, which had dropped away about half, during the dissensions mentioned. We have made this progress in spite of the dirtiest opp tion that could be offered by certain

"In 1914 we did a business of \$3,-"In 1914 we did a business of \$3,-000, and saved roughly nearly 25 per \$750 to our members. We cent., or \$750 to our members. We got two cents a pound off on binder twine, 85 per cent. to 40 per cent. off on sugar, and so on all along the line. We have found it a great advantage to be affiliated with the United Farm-ers' Company. Through this company prices are coming to us instead of our officers having to hunt prices. Previously this had always meant considerable work and time to the very few who were willing to give their time to hunt bargains for others. The United Farmers have found that they can do business to good advantage with us, The Burford Grange, as we are a chartered organisation, and, therefore safe to do business with. Because of our charter we are not placed under obligation of forwarding pay-ment before receiving goods. Retail Dealers Encouraged

"We, as an organization in a rural district, believe that it is necessary to have some retail dealers in our community and we have not attempted to entirely eliminate the middle-man. We encourage our members to leave in our own community as much

work, we nave tried to outain one post nam and train them to strike a speaker for at least every other sumi proper attitude. A bird can be quick-monthly meeting. Some of these by tamed by allowing it to become speakers have been specialists on co-hungry and then feeding with tempt-operation. For instance, we have had ing feed in the way of small pieces of Mesars. King and Hurley of Braut mest and table scraps.

January 13, 1916

ford, and also Mr. W. C. Good. pay the expenses of these men in com-ing to our meetings." We

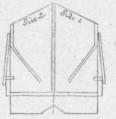
The outstanding feature of work of the Burford Grange is the successful combination of commercial and ed cational endeavor. The Burford Grange is performing a greater service for the community because of its commercial work in affiliation with the United Farmers' Cooperative Co., Limited, than it could possibly perform as a purely educational organization.



A Self-Feeding Hopper

SUBSCRIBER has requested us A to publish a diagram of a self-feeding hopper for poultry. There are many types in use. The 1 diagram that we are publishing herewith is of a hopper used in the Poultry Department at the Ontario Agricultural College

One side of the hopper may be used for chopped feed and the other for whole grain. The diagram given is an end view. Along the sides there are slats. The roof opens out to, ad-



mit of the hopper being filled. This hopper is particularly recommended where the colony plan of summering chickens or laying fowl is followed.

Celer of Flesh

When there is demand for birds with yellow flesh a liberal amount of corn may be fed. Where the market demands white flesh less corn should be used.

To produce yellow flesh a grain mixture composed of five parts ground corn, one part ground cats, with the coarser hulls sifted out, and one pound of meat meal, makes an excellent ration. Such a ration may be fed without sour milk, but it is preferable to feed the latter with it.

For white flesh, a ration composed of two parts ground corn, two parts ground buckwheat, and two parts ground oats with hulls sifted out will ground cats with hulls aiffed out will give good results. Oats alone may be used but they should always be ground fine and the conver hulls aiffed out as as not to make the ra-tion too bulky, and this should also be mixed with sour akim milk or butter milk. The acid in the milk aids discuts.

leave in our own community as much butter milk. The scid in the milk money as they can by dealing with aids diggestion. Informed one of our officers that his is of vital importance if one expected business has greatly increased right in to win, and what is the use of ahow-the neighbourhood of our organiza-ing if you don't? Coop the birds in exhibition coops at least two weeks "We have not neglected educational before a show and handle them often, work. We have tried to obtain one poss them and train them to strike a scenario of the last percent of the show a have hand and the show and handle and them often as the scenarios of the show the hand train them to strike a scenario of the show a have handle as the scenarios.



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Dairy and Fruit Farm near Ancaster Village, 225 acres, good pasturage and well watered; large apple orchards, milk shipping station half a mile, on Brant-ford and Hamilton Electric R. R., City of Hamilton six miles; first class stone

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rdered together we send both machines for only \$13.99 and we all freight and duty charges to any R. R. station in Canada,

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January, 13, 1916

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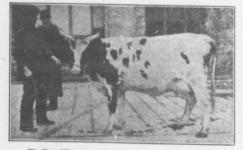
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FARM AND DAIRY

Standardization of Dairy Products the Main Theme for Discussion Marketing Problems Receive Much Consideration at the E.O.D.A.

Convention The grading of cream and butter is the outstanding need of the conversion industry of Onition at the original starty of Onition at the fraction of the start of the start ball with those where the the fastern Onitario Dairymen's As-sociation Convention held in Ren-frew on January 5 and 6. J. A. Ruddick, Dominion Dairy Commis-sioner, Geo. H. Barr, Chief of the Dairy Department, Citawa, and Frank Herns, Chief Dairy Instructor for Western Ontario, each devoted their addesses to a discussion of this subject. Mr. Ruddick, in a letter to Secretary Thompson, emphasized the point that the changed conditions of the changed conditions of the changed conditions of the changed conditions of the secretary Thompson, emphasized the point that the changed conditions of the changed conditions of the changed conditions of the start subject. Mr. Start and made the grad-ing of dairy para had made the daired the changed conditions of the start subject. Mr. Start and the ball the start subject. Mr. Start and the start of the start and the start and the start of the start and the start of the start of the start subject. Mr. Start and the start of the start subject. Mr. Start and the start of the start start and the start of the start of the start of the start start of the start of the start of the start of the start start of the start of the start of the start of the start start of the start of the start of the start of the start start of the start of the start of the start of the start start of the start of t the last few years had made the grad-ing of dairy products more impera-tive. In the days when the chief in-terests centred in the export trade, the exporters had standards of their own, but now that two-thirds of our dairy products are corsumed at home, it becomes necessary to take up the question of national standards of

cream, and in Manitoba 61 per cent. As a result of the grading of cream, Alberta and Saskathewan bid fair to be soon oble to supplant the New Zealand product in the Vancouver market, one Calgary buyer thaving given it as his opinion that with the same impresent in the super charge of the super sector. given it as his opinion that with the same improvement in the quality of the butter this year, it would be bought in preference to the New Zea-land product. Quebec was also cited as an example of a province which had drastic legislation regarding the grading of cream. The result of all this is now becoming evident. "When butter dealers in Toronet Montred. this is now becoming evident. "When buiter dealers in Toronto, Montreal, Winnipeg, Calgary, or Vancouver want a car of the finest creamery butter," said Mr. Barr, "do they seek it in Ontario I doubt it. They are more likely to seek it in Ouchec, Saskatchewan or Alberta." Me. Frank Herns also strongly ad-butter, and surgested that as an edu-cational feature one or two factories



His First Winner: Good Encouragement to Come Again.

This is Smaans Evergreen, first in the class for Ayrshire helfers in the Guelph Dairy Test with the accelent production of 147.6 iba. milk testing 4.3 per cent fait for exhibitors of this helfer, B. B. Palmer 4.5 Son. Norwich, Ont, were as it Guelph for the control and the compart. Such an initial success should encourage them to come again. The junitor n.ember of the farm may be each holding the cow.

quality. These are especially neces-sary when a Canadian dealer makes a sale of butter or cheese to another Canadian dealer at some distance away. Coupled with this question of standard grades was the question of puality basis, and MR tream on a puality basis, and MR the other nere was solved most of the other nere was solved most of the other pro-blems of those engaged in the dairy industry would be found easier of solution

industry would be found easier of solution. The adoption of the grading system for cream as a method of improving the adoption of the grading system for cream arr, who, by means of a chart or marriellous improvement in the quality of the product had been effected within only a few weeks after adopting the grading system. Be-fore the system was adopted practi-cally all the butter produced was of the lower grades, but soon after its adoption almost all the butter grad-ed specials or firsts. The manner between the Western provinces were been by the in the doubter of the system the butter produced was not be the system and hat by the state of the butter produced was not be the system and that by the state of the butter produced was not for the system and that by the state of the created special and only graded special watchewan 98 per cent. of the creater.

should be set apart and a rigid sys-tem of grading conducted. "Some creamery men are anxious to grade," said Mr. Herns, "and they are also anxious to pay according to quality, provided it can be shown by practical demonstration that it will we only much the scamer resp. but

practical demonstration of anoma by not only pay the citon that it will be producers as well?" How Milk Cooling Pays M. G. G. Publow, Chief Dairy In-structor for Eastern Ontario, called attention to the great loss which far-mers were sustaining by failing to properly cool their milk before send-ing it to the factories. The instru-tors had taken this matter up during the season, and had proved by prac-tical demonstrations on the farms that by the use of ice or cold water, whereby the milk was delivered to the factory nine degrees cooler than that by the use of ice of Cons water, whereby the milk was delivered to the factory nise degrees cooler than when such methods were not used, the increase in the cheese yield was one-third of a spound pure hundred pounds of milk, which, with cheese at 13 cents a pound, means an in-crease of five cents per hundred-weight of milk, The question of over-ripeness caused by not properly cool-ing the milk was further discussed by Prof. Dean, who had found a loss of 6.34 pounds of cheese per thou-sand pounds of milk due to over-ripeness. Assuming that one-tenth of the milk arriving at the factories in Eastern Ontario was in an over-ripe condition, the loss to the farmers

Very emphatic was Prof. Dean's utterance regarding the supply of rennet. The war had interfered with the supply which formerly came, for the most part, from Germany. He the most part, from Germany. He read letters from several firms who deal in rennet, showing that the sup-ply was in a very precatious condi-tion. Russia has a surplus for ex-port, but shipments can only be made through Sweden and Arc.angel, and the trade is further hampered by laws periability the export of rennet at periability the export of rennet at drawn largely from facent supply is drawn largely from facent supply is most allowether south of the horder most altogether south of the border. If the United States prohibited the If the United States prohibited the export of this renner, the result would be disastrous to the Ganadian cheese industry. Mr. Publow also mentioned the fact that the higher price of rennet had led many makers to economize too much in its use, and to use impure grades, with the result of lower cheese yields. This false economy was strongly con-demned by Mr. Publow. Deschiltize Possibilities

Possibilities "Cow Testing Possibilities" was dealt with by Chas. F. Whitley, of the Dairy Staff, Ottawa, who strongly re-commended farmers to get away from average milk yields of all the cows in the herd and to pay more attention to individual performance of each cow; The culture out of the state of the state of the state of the state out of the state of the state of the state of the state out of the state of the state of the state of the state out of the state out of the state out of the state of the sta the herd and to pay more attention to individual performance of each cov. The culling out of undesirables and the building up of a high producing herd could only be accompliabed to the best davantage by means of the test. Mr. Whitley also championed the use of pure-bred sires, stating that the balance in favor of the good dairy sire was from 1,000 to 3,000 pounds of milk per annum in one generation. The results of selection and good breeding were shown in one case where 50 cows gave a profit above feed cost of only %615, while a very factory a herd of 48 cows Wilfred Sadi H. S.A. of Macdon-ald Collexe, black and a stating new possi-bilities in dairy law, using new possi-bilities in dairy law was hiber classes, get a taste of it, the demand will grow rapidly. He also advocated the making of the small cheese of about one pound in weight. Made in this size, cheese kept better after being purchased by the consumer, as the

one pound in weight. Made in this size, cheese kept better after being purchased by the consumer, as the smaller surface exposed to the air prevented evaporation to a large ex-tent. Details of the making of both these products were given in detail, and will be published in future in the set. issnes

Frof. Dean drew attention to the possibility that, since the war had caused a stiff demand and good prices for cheese this season, the scon-clusion of hostilities might be accom-panied by a fall in prices and a re-adjustment of market conditions. It would be well then for us to look well into the future of provide for the time when an enduction might have to by extensive advertising place of the Frof. Dean drew attention to the advertising the place of the present land Care and trade.

Care and the Dairy Cow Mr. Henry Con ning of Manilla, Ont., who has unique distinction of being the only practical farmer to give an address before the conven-tion, outlined the methods by which he has achieved such marked success a dairy former of marked success as a dairy farmer. "Many good dairy cows are unregistered," said Mr. Glendinning, "and the well-known system of breeding in one line and



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To assist in extending the circulation of Farm and Dairy amongst their neigh-bors. By devoting a few hours of sparse time each week to the work a yory proft-liable side line can soon be develored. We are prepared to pay local agents a wery liberal

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LANTERN filling of gasolin about 3 cents an keep it in operation is hours. No wich

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using a good registered sire stills stands the test of time," It is best for a man to raise his bown calves, as men usually sell the cows they don't like. Ground flax seed, as distin-guished from oil cake, is good for growing calves. In caring for the dairy cow, remember that the best of the set number. And the dairs to the set number. And the dairs in the early summer, and the dairy farmer should aim to continue these conditions as long as possible throughout the season. Mr. Glen-dinning's address will appear in a subsequent issue.

subsequent issue. J. H. Griadale dealt with the grow-ing of feed from the dairy farmer's standpoint, recommending the well-tried crops which everybody knows how to handle, viz. corn, red clover, and cats. He stated that he liked clover about as well as allalfa, its chief advantage being that it fits well into a short rotation, and that every-body knows how to grow it. His ex-perience was that corn grew best on perience was that corn grew best on spring plowed sod or pasture that had spring plowed sod or pasture that had previously received a light dressing of manure. This should be rolled immediately, cultivated thoroughly, and the corn sowed as soon after plowing as is possible. Sowing in drills was preferable to hill planting, as it saves time both in seeding and cultivation, and is also much easier on the corn binder than the hills. The three-year rotation-corn, oats and grass and clover-was recommended where permanent pasture was mended where permanent pasture was available, and the four-year rotation including the above and one year in pasture, where the latter was needed. Rather intensive farming was advis-

"The cause of most failures in farming," said Mr. Grisdale, "is due to the failure of men who make the best use of the land which they work. In Canada we fall down badly when it comes to yields. There is no reason why we should not have excellent crops every year, and our yields should be 50 per cent, better than they are. To obtain this result, all that is needed is more care, thought, and intelligence and a little more labor." Community Building best use of the land which they work.

labor." Community Building The evolution of the country home from the time when it was self-sus-taining and all-sufficient to the pre-sent time where, in many cases, there is scarcely any home life, was iketch-ed by A. McLaren, B.S.A., who has charge of work in rural sociology at

Che O.A.C. The home has turned over to the church, the school, and the state, functions which it formerly performed within itself, but these were not doing the job as well as they should do it. We cannot, how-ever, go back to the old conditions, but must work along the links we have already adopted. The logical unit from a sociological standpoint

Our Experience Meeting: Handling Bulls Don't Be Afraid of the Bull

(First Premium.) Albert T. Cole, Huron Co., Oni.

Albert T. Cole, Huron Co., Oni. HAVE kept a bull ever since 1 started farming 45 years ago, and have never had what you might call a cross bull. My plan is to turn him out into a two-acre field right near the stable, along with the calves during the summer. Whenever we during the summer. Whenever we want to bring him in we call him by name and he comes without any trouble. We never tease or abuse the bull, and we are never afraid of him. One of my neighbors thought that he would try handling his bull the way I do, as he had two grown-up sons to help him, but I told him that they would not make a success of it, as they were afraid of the bull. However, this neighbor bought one about a year ago. He was very quiet when first bought, but my neighbor only had him about three weeks, when he got so cross that it took the two cot so cross that it took the two boys and the father to take the bull out of the stable. This is the way they had been using him: The boys would put a head stall on him, then tie a rope on both sides, and get a big club about two and one-half feet long and as thick as one's wrist. Whenever the bull turned his head, feet a comparison of the state of the Whenever the bull turned his head, first one would hit him over the head, then the other, until the bull thought every time he was untied from the stall that he was going to be hammered. and soon became so cross that they could not handle him that war:

The next plan they thought of was Inc next plan they thought of was to put a ring in his nose, and came over to see if I could put the ring in. I told the others to keep away, and I took the rope, tied it to one side of the halter, gave him a little pull, spoke to him, and he walked out of the stable as quiet as you please. I spoke to nim, and he waked out of the stable as quiet as you please. I led him to a tie post in the yard and tied him with a chain. It was only about five minutes until the ring was

The PAGE commands the attention of all shrewd farm owners

From neighbor to neighbor, the news of Page Engine superiority is travelling fast. Every time we install one of them, we stand a good chance of getting other orders from that same neighborhood. The owner of a Page cannot help but be a salesman for this engine-his enthusiasm will not allow him to keep silent about its merits.

You, too, when you buy a Page, will find the news too good to keep - you'll be telling your neighbors of its remarkable strength and simplicity -its day-in and day-out satisfaction.

Remember we do not ask more for this better engine-we ask less than you would pay for other engines that do not begin to compare with the Page. By large production, and by selling direct to you, we've got the price down so low per h.p. that no other engine concern has yet been able to compete with us.



that way.

Compare these prices with the prices quoted by other engine houses:

1¾ H.P. . \$46.50 3 H.P. . 68.00 5 H.P. 113.50 6 H.P. 168.00

And we will take it back as freely as we sell it to you, and return the full purchase price, if you can find it otherwise than claimed after a thirty-day That's the way we prove our confidence in it

For full particulars, write to



January 13, 1916

was the community; that is, the trade district surrounding each local centre. The development of the com-munity idea with its consolidated school, its general meeting-house, its community play-day, and possibly even its community church, was in the speaker's mind the means by witch the true solution of the rural problem would be brought nearer.

Handling Winter Manure

What method of handling the winter's manure crop do you follow and what do you consider are its advantages?

The answer to this question must be based on the writer's practical experience. For the best reply received on or before Jan. 22 we will extend the writer's subscription to Farm and Dairy for one year; for all other replies published for six months. Letters of about 300 words in length are favoured.

Address, Ouestion Editor, Farm and Dairy, Peterboro, Ont

in his nose and he was back in the stable. I told the men not to use the ring for about three weeks, but they thought one week was enough. They used the bull so roughly and made his nose so sore that he became ferocious, and they had to fatten and kill him.

kill him. I consider that this is the way that have a quiet bull: Don't tease the when they are young, or, in fact at any time. Don't be afraid of them. Feed well; groom well, and pet sen-ever you handle them. If you we have occasion to use a which we a small switch and hit the ears or under the feltow of their hind tegs. Tage yill head that far more than using a big club.

Would Work the Bulls

Thos. Dennis, Elgin Co., Ont.

WE have found the old proverb, "An ounce of preventative is worth a pound of cure," the most satisfactory. We generally try and keep two bulls and break them to and keep two bulls and break them to the yoke when they are yearlings. In this way, by working them, it keeps them quiet, they will pay for their keep, and become more vigorous and strong, as they get the necessary exercise which they would not get in a stall.

General Principles

Wm. Currie, Chateauguay Co., Que. DO not think any one can give a method that will apply to all bulls. I have had a good deal of experi-ence with all kinds, and find they are like the human family—you have to study their nature. In the first place, you have to be master and show no fear when you approach them. Sometimes you can conquer them by kind-ness. If that rails, and you have to resort to punishment, do not leave

resort to punishment, do not leave him till you have him conquered; then show him kindness at once. I have been handling old bulls for years, buying them in the fall and feeding them all winter, and I have had some bad ones, and I have never seen one that I did not master. If any readers of Farm and Dairy have cross bulls they cannot handle, let them send them to nve, and in two weeks I will be boss.

Your Xmas Number is a beauty and choke-full of good information and cuts well worth a year's subscription. --George McKay, Perth Co., Ont.

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FARM AND DAIRY

The Acre Profit Competition for 1915 Some Splendid Yields Were Secured by the Young Men of Ontario

are eigroie to compete who have taken short courses of four to six weeks conducted by the district re-presentative. The prizes are award-ed on the basis of profit per acre from some one crop selected by the from some one croy selected by the young men themselves. Five dollars, an arce is allowed for the reat of the land; 15 cents an hour for manual and 10 cents an hour for horse labor. The prices given to those who secure the anter size at Ouelph with all ex-penses paid. Sixty-seven young men will be at Guelph on this basis this month, and at the conclusion of the course an examination will be held in nontui, and at the conclusion of the course an examination will be held in stock and seed judging and a gold watch, donated by the Deputy Mini-ster of Agriculture and the Assistant Deputy Minister, will be given to the young man who attains the high-est marks est marks.

est marks. Four young men succeeded int growing over 400 bushels of potatoes to the acre, and it is noticeable that all of these four are located in the northerly counties of the province, where the climate seems more adapt-the in province, Milner where the climate seems more adapt-able to potto growins. Milton H. Goltz, of Bardsville, Muskoka, had a yield of 514. oushels of potatocs on his acre. His soil is a clay loam, following oats, farmed 10 years and fertilized with five loads of manure to the acre. Cavies Warrior was the variety. Valuing the marketable po-taines at 75 cents a bwabel, and the variety. valuing the marketable po-tatoes at 75 cents a bushel, and the unmarketable at 37% cents a bushel, this young farmer had a c st pro-duction for his acre of \$42.0% and a

duction for his acre of \$42.02, and a net profit of \$336.72. Percy Wright, of Westmeath, in Renfrew county, had a yield of 421 bushels and 30 lbs. cost of produc-tion \$42.09 and profit \$369.81. C. Wy Campbell, Powassan, in Parry Sound district, had a yield of 405 bushels, cost of production \$39.30 and net profit \$253.20. Edwin Payton, Dorion Station, Part Artice, Payton, Dorion

profit \$253.30. Edwin Payton, Dorion Station, Port Arthur, had a yield of 402 bushels, cost of production \$49.56 and a net profit of \$245.49. Competitors in Oats James J. Pennett, Perth, Lanark Co., was one of three who green over 90 bushels of oats to the acre. His yield was 104 bushels 10 lbs., cost of conductons \$17.76. and set profit yreid was 104 bushels 10 lbs., cost of production \$17.76 and net profit \$33,93. Osborne Rosebrugh, St. George, Brant county, had a yield of 92 bushels 28 lbs., cost of production \$16.02 and net profit \$21.11. Roy Ewing, Eiginburgh, Frontenac coun-ty, had a yield of 90 bushels 17 lbs., cost of production \$16.42 and net

cost of profit \$19.78. Mangels

Halton county, represented by Jos. Willmott, Milton, secured prize in mangels with 1,650 bushels to the mangela with 1,000 bushels to the acre, cost of production \$42.33 and net profit \$155.91. Wilfrid Elson, Fraserville, in Durham county, had a yield of 1,352 bushels, cost of proa yield of 1,302 pushets, cost of pro-duction \$31,85 and net profit \$130,39. Wm. Cooper, Mindemoya, Manitoulin, had a yield of 1,278 bushels 40 lbs., cost of production \$31.60 and net profit \$121.84.

Silage Corn

The results in the silage corn com-petition were wonderful, yields being secured that many would not have secured that many would not have thought possible, except in the south-ern states. Four contestants had ern states. Four contestants had yields of over 30 tons to the acre. Archie R. Gregg, Salford, Oxford county, had a yield of 39 tons 1,400 Ibs., cost of production \$18.15 and net profit \$100.96. J. F. Campbell, Milton, Halton county, had a yield

THE results of the Are Profit of 53 tons 1,000 lbs., cost of produc-competitions, we may explain, George Suggirt, Fenelon Falls, Vic-competitions, we may explain, George Suggirt, Fenelon Falls, Vic-are conducted by the Ontario Depart-toria conducted by the Ontario Depart-trict representatives. Young men and net profit, \$81.63. Robert Wat-ree eligible to compete who have son, Woodbridge, York county, had taken short courses of four to six a yield of 32 tons, cost of production weeks conducted by the disreger as yield of 32 tons, cost of production

bushels 19 lbs., cost of production, \$42.70 and net profit, \$75.22. Gerald 542.70 and net pront, \$75.22. Gerald Smith, Ruthven, Essex county, had a yield of 72 bushels, cost of produc-tion, \$18.24 and net profit, \$71.76. Turnips

Turnipa In turnipa Roland Brown, Hymers, Fort William, had a yield of 994 bushels 40 lbs., cost of production. 821.94 and net profit, 87.42 H. A. Parker, Uno Park, Temiskapning, had a yield of 942 bushels, cost of production, \$42.76 and net profit 870.92 \$70.28.

\$70.28. In spring wheat, Silas Farrell Finch, Dundas and West Stormont counties, had a yield of 46 bushels 45 ibs., cost of production, \$15.18 and net profit, \$22.29. In barley C. B. Hazen, Port Rowan.

Norfolk county, had a yield of 51 bushels, cost of production \$17.28 and profit, \$10.77. net

net pront, #JU.77. Beans are a crop limited to certain counties of South-Western Ontario. Clifford Smith, Ridgetown, Kent county, had a yield in beans of 22 bushels 20 lbs., cost of production bushels 20 lbs., cost of production \$21.55 and net profit, \$56.61. Hog Feeding Competition Seventeen volume

Heg Feeding Competition Seventeen young men will take the short courses at Guelph at the ex-pense of the Department of Agricul-ture as winners in the Hog Feeding Competition. The hogs were select-ed when six weeks old, and a value of \$4 each was placed on them at that age. Contestinatis were allowed in fand dour wend select allowed to feed flour and select the best three at the end of the competition. They were fed until 22 weeks of age, and a record kept of the amount of feed used each week.

Sewell, Meaford, Lawson Grev county, had an average cost of pro-duction of \$12.53, average value. value, S24.84 and average profit, \$12.31. J. S. Pollard, Mt. Elgin, Oxford coun-ty, average cost of production, \$13.63, average value, \$24.84 and average profit, \$11.21. Calvin White, Perbroke, Renfrew county, average cost of production, \$9.14, ave.age value, \$19.66 and average profit, \$10.51. Owen Fitzgerald, Harrowsmith, Fron-tenac county, average cost of produc-tion, \$8.06, average value, \$15.69 and average profit, \$9.83.

Coming Events

SIXTH Annual Apiculture Short Course, O.A.C., Guelph, Jan. 11-22.. Ottawa Winter Fair, Ottawa, Jan.

10 00

Ontario Corn Show, Chatham, Feb. to 4.

1 to 4. Canadian Jersey Cattle Club, An-nual Meeting, Feb. 1, Carls-Rite Hotel, Toronto.

Hotel, Toronto. Canadian Ayrshire Breeders' Asso-ciation, Annual Meeting, Feb. 3, Carls-Rite, Hotel, Toronto. Annual Meeting, Holstein-Friesian Association of Canada, Canadian Foresters' Hall, Toronto, Feb. 3.

A Ration without Succulence

WILL you kindly give mo a balanced ration for a cow giving 20 lbs. of milk a day? What feed would you recommend buying along with lucerne clover, timothy hay, oat straw, oat chop and flax seed ground fine?--"Young F.r. mer." Huron Co., Ont.

A cow giving 20 lbs. of milk a day should not be difficult to feed, as this is only a moderate milk yield. 'Young Farmer" has lots of feed on "Young Farmer" has lots of feed on hand to meet all of his requirements without purchasing at all. The greatest lack is succulence, and con-sequently palatability. A few roots if they are on hand, or can be obtained at a reasonable price, would help out immensely. immenselv

We would suggest that the cow be fed mixed lucerne and timothy hay after milking in the morning, as much as she will eat up clean in one hour. For a morning grain ration we would suggest two and one-half pounds of oat chop and a handful of ground flax. A small feeding of hay ground flax. A small become or any might be given again at noon, and the same feeding at night as in the morning. Last thing at night, after the hav and grain have been cleaned the hay and grain have been cleaned up, the manger might be filled with oat straw. The cow will pick over the straw and eat the best portions; what is left may be used for bedding. what is lett may be used for bedding. In order to give more palatability to the ration we would suggest pur-chasing some feed molasses, which can easily be gotten at 18 to 90 cents a gallon, mixing with three or four times its bulk of water and four times its bulk of water and sprinkling over the hay before feed-

Stumps Out - Quick and Easy

Here at last is the land clearing device you have been looking for-the Kirstin One-Man Stump Puller-a simple,



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Michael K. Boyer, Box 23, Hammonton, N.J.

MAN OR WOMAN WANTED to distrib-ute war literature. \$120 for sixty days' work in your community. Spare time may be used.-Winston Co., Limited, Tor-

FREEE to stockmen and poulizy-men, our 80-page illustrated construct a house which on feeding: how to hens; gives dimensions, and measurements of very piece of lumber regured. Deals with the common disease of accel, and poulity, and the contains full information about the out hype Stock and Poulity foods and remedies. The W.A. JESKINS MIR. Co., LOKTORY, CMA.

The set overy quality needed for hand charing --merch set, we'r quality needed for hand charing --merch set, and the set of the descent of the set o dry, to easy.

Ten Days Try-Out on Your Farm With the Improved Double Lowrage Kir-stin you can clear over an acre from one anchor. Also no time wasted in frequent re-setting of puller. The Kirstin is designed to save time. When you get a Kirstin you get a complete. practical Stump Pulling Outif, at Mint A is myou get a Kirstin you get a complete, actical Stump Pulling Outfit at little cost-and you are protected by the Kirstin Iron-Clod Guarantee. - Bab 85

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FARM AND DAIRY AND RURAL HOME PUBLISHED EYERY THURSDAY

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These, will be mailed free on request. OUR GLARANTEL We Gumma of Farm and Dairy are as carefully edited as the reading columns, and because the ad-vertising columns of Farm and Dairy are as carefully edited as the reading columns, and because to protect our readers, we turn sway all uncover discovery will make good the amount of your loss provided usch transaction occurs within one month from date of this occurrence, and that we full the facts to be as stated. It is a condition of this contract that in writing to advertilers your state. The action of the scatter is any your advertilesmont in the mediation of these columns; but we shall not attempt be adapted to those the most to prove the scatter mediation of these columns; but we shall not attempt to adapted the scatter who advertises, nor pay the densets of honest bankrupts.

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.

Better Cows Needed

I N a certain dairy instructor's territory in Eastern Gntario, there are 1,722 patrons sending their milk to cheese factories. These farmers milk 11,932 cows and their average gross return for the whole cheese factory season in 1915 was only \$42,18 a cow. The average price realized for cheese was 14.92 cents a pound. We may assume, therefore, that with pastures good and cheese high in price, these cows were given a reasonable opportunity to do their best. And yet with all things in their favor, the return of \$42.18 is hardly enough to pay for their feed. Certainly the return is not sufficient to yield any profit to the farmer.

The educational institutions of the land, of which the agricultural press is not the least, have been preaching better cows so long that one would almost think that the three thousandpound cow would be extinct long ere now. Then along comes a statement like the foregoing, and we realize that we must start our work all over again. Although the subject may be somewhat hackneyed, there is still much need to impress the value of better breeding, better feeding, and better selection-the three basic principles of good dairying.

Joys of the Farm

THE man whose ideal is wealth that may be named in many thousands, perhaps millions, of dollars, should choose some other occupation than farming. As a business, farming yields only moderate returns on the labor and capital invested. Wheever heard of a farmer becoming a millionaire through the production and marketing of crops? The best farm income would look small to the successful broker or merchant.

Such a confession must seem to many like an attempt to give farming a black eye. It is, if we view farming only in its financial aspects. But when we consider the farm as a place to live, our industry more than comes into its own. The farm enthusiast, the man of rural ideals, draws big dividends in joy in his work, his wholesome environments, and the opportunity that contact with nature offers him for creative work. It has been men inspired with this joy of farming who have blazed the way to all modern methods. Many of Our Folks take more pleasure in improving a strain of seed than any broker ever took in cornering the market or any merchant in amassing a fortune. We have many such men among the farmers of Ontario, and verily they are the salt of the industry.

A Warning in Advance

THE seed question of 1916 is complicated by two factors-the shutting out of European supplies of root and vegetable seed and the doubtful quality of our own home-grown grain and clover. Much of the grain in Eastern Canada was injured by the wet weather of last season. In the corn sections of South-Western Ontario, there was a general tendency to softness in the ear, and the quality of seed corn coming from there will not be as good this year as it has been in the past. The clover seed situation is even more serious. There was very little No. 1 clover seed produced this last season.

There is only one way to guard against crop loss from seed of inferior germinating qualities -test your seed and sow accordingly. The farmer who is accustomed to sow oats at the rate of- two bushels of ninety-five per cent. germination to the acre, should next season sow nearer four bushels to the acre if he finds that the germination power has been reduced to fifty per cent. The same applies all along the line. With the average seed that will be offered in 1916, there should be heavier planting of corn, grain, and clovers. This will increase the seed bill, but any extra expense incurred at seeding time will be more than counterbalanced at harvest by the superior crop that comes from the good stand. Those of Our Folks who do not wish to test their own seed can have samples tested by forwarding them to the Seed Branch at Ottawa.

A Word in Season

B ARNYARD manure has value on the farm aside from that as a fertilizer. It improves the physical conditions of the soil and makes it easier to handle. Its decay produces heat and its presence aids chemical and bacterial processes. Moreover, it absorbs and holds a large amount of water and helps to aerate the soil. The benefits of these indirect aids to plant growth are in some cases worth as much as the fertilizing power of the manure.

When it is added that barnyard manure is worth at least \$2.50 a ton, and that each farm animal produces from five to seven tons per 1,000 pounds of live weight each year, it is easy to see that as a fertilizer the material should not be wasted

And yet it is. On the average Canadian farm only fifty per cent. of the fertilizing value of manure ever reaches the soil. The other fifty per cent. of value is lost by leaching and fermentation consequent upon improper handling. We have even known seemingly intelligent farmers to waste the manure produced on the farm and then turn around and buy commercial fertilizer to make good the drain on their soil. The best practice is to haul the stuff directly to the fields from the stable. Where this practice is not followed, provision should be made to preserve all the liquid excrement and keep tightly compacted and moist to prevent fermentation. There is no more important problem at this time of year than the conservation of stable manure.

The Unemployed : The Solution

T the conclusion of the war four million British citizens will be returning to their home lands, the most of them looking for work. The finding of jobs for so many jobless men is a problem that will call for the best statesmanship. Already many solutions of the coming labor problem have been proposed. The best of these comes from the United States Department of Labor. In that country, like all other civilized countries, the unemployed problem has always been with them, and Secretary of Labor William B. Wilson, in advancing his solution, has thrown precedence to the winds, and brought forward a scheme that will work, because it is fundamentally right.

Secretary Wilson has already tried the commonly advocated plan of establishing labor exchanges on a national basis, but the scheme has failed for the very good reason that there are more men offering than there are jobs for them. He now draws attention to the possibilities of opening jobs for the unemployed on the unused lands. He suggests that the Government retain title to all the public lands it now holds, and also acquire the extensive areas of unused, privately-owned farming lands in all of the States, the tenure to be so adjusted "as to prevent the inflation of land values." In addition to placing the laborers on the land, Secretary Wilson would have the Departments of Agriculture and of the Interior cooperate with the Department of Labor to instruct in farming and marketing and to make possible the establishing of a rotary fund from which loans could be made.

The need for such a scheme in Canada will be even greater at the conclusion of the war than it is now in the United States. Much of our best land has been given away, but much good Government land still remains. This could be extended by expropriating from its present owners the vast areas of unused land in all of the Western provinces, which came into the possession of their present owners by frauds perpetrated on the Government. This may seem to many a radical method of solving the problem of the unemployed, but abnormal conditions demand radical remedies.

Paint that is Undesirable (Ladies' Home Journal)

T was a shrewd Yankee storekeeper who said as we were driving along by a farm :

"I reckon Will Peyton isn't doing so well." "How do you know that " I asked.

"His barn," he said laconically, pointing to a barn the side of which blazoned forth an advertisement. "When a man lets another paint his barn full of an advertisement we think twice when he comes to the store and wants to buy without money. We are generally out of what he wants."

The comment was shrewd; it is a truth that very few farmers realize. The owner of a farm never advertises the loosening hold on his strings or his poverty more convincingly than when he lets another fellow paint his barn. If more farmers realized this fact there would be fewer barns, fences, and sides of houses made hideous by advertising painting.

"I didn't hear anything at the Institute that I didn't know, anyhow," declared the poorest farmer in the community. Nobody doubted his word. Anybody can listen to good advice. It takes a wise man to profit b, it.

H. P. I US

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January, 13, 1916



The Chicken Thief

H. Percy Blanchard, Hants Co., N.S. UST imagine what your feelings

J UST imagine what your feelings morning, you count your site stock of R. I. Red chickens, preat-big fellows, almost as big as hens, and little wee ones, and on nearly every occasion find the count running shorter and shorter. "If you have swears, prepare to swear them now." But why stand disconsolate: the ra-ther, it is time for action. Certainly our chickens were diminishing in numbers. Mr. Williams and I tak-ed it over. Mr. Williams was the old foreman on this farm when it was owned by my predecessor. Likewise, he is an expert woodsman, and a man of yesources.

he is an expert woodsman, and a man of resources. Now, I thought the depredator was a mink; but Mr. Williams said skunk. Ohe myrning, among the survivors I found a chicken with its comb almost bitten off, just hanging by all the bit of flesh. Here was a by all the bit of flesh. Here was a thread and suck its blood: "whereas a mink grabs it by the head, bites it through the skull and brain, and so carries it off. It looked as if my guess were right. But one bright moonlight were right. But one bright moonlight night I was awakened by a tumult night I was awakened by a turnult among the bunch of chickens that were roosting on an open box below our open window. I was out of bed and gazing into the night at the in-stant; and surely I saw some small animal prowing round below. When I abouted and sources I shouled and clapped my hands, it slowly and unwillingly made off. When I got enough clothes on that I When I got enough clothes on that I might follow it out into the chilly night, it had disappeared. Mrs. Blanchard upbraided me because I did not have a loaded shotgun in the bedroom, so I could have shot the beast juit then, how did I know the beast juit do come that night; and beast will a had the a gun, I never, would have load the a gun, I never, would have conclusion friend the proved that conclusion far too often

proved that conclusion far too often to dispute it to-day. On the morrow, Mr. Williams and I again consulted. The beast was about the size of a large cat, for-ward end dark, and hind part lighter. It moved a, good deal like a cat. "Skunk," said het, "if you had met it last night, we would have had to bury your clothes." I was glad then I had not met it. I would hate to have my clothes buried, even jf I were not inside them. But the insol-ence of the burte increased. The were not miside them. But the insol-ence of the brute increased. The fowls were all shut up in the hen-house, with no entry but the small run-in hole from the yard. One morning we found on the floor a somewhat dilapidated dead hen. So after dark the next night, we closed up that one entry, and Mr. Williams hunted up an old mink trap and set it just outside the hole, Next Morning the Trap Was Sprung

Next Hoorning the trap was oprung had left them. But there was no mink in it. How-ever, we both could plainly smell his friend at last. "Who do you think skunk. He would likely come back, is going to walk in here and steal our again if he were not hurt. Now, coats?" a peculiar coincidence was that on "Canna say," replied Scotty, "but that same morning, Randolph's big ['11 tak' guid care naebody rets mine; old white and black tom cat came yours went ten meenutes ago."

home, with one front paw smashed off and the other broken. Randolph shot him to put him out of misery.

FARM AND DAIRY

Another coincidence is that we have lost no more hens. That trap must have so scared the skunk when it snapped, that the beast has abandoned its evil ways. ed its evil ways. At the same time, now that he is dead and cannot defend himself, a suspicion has fastened tiself upon that tom cat. Some of the neighbors missed poultry, and they blamed Tom. Randolph himself lost some. Since Tom departed the chickens houdon been molested. But what I would not been molested. But what I that on that morning when we found the trap sprung, we smell skunk?

Calves Without Milk

: Calves without pains E DITOR, Farm and Dairy,—On Farm and Dairy,—On Farm and Dairy, 98th fe calf, rearing withourwhit, 1 was much struck with the great difficulty he attaches to the process, and I'm not surprised that his only attempt was a failure. Now, having raised many fine calves without milt, I take the liberty of telling "Herds-man" my method, and being a milk seller I speak from practice, not theory.

theory. The calf is taken right away from its mother and taught to drink. For the first few days it gets all the milk it needs. When about four days old I begin adding a little gruel, gradu-ally reducing the milk and increasing the scene companying with a table. ally reducing the milk and increasing the gruel, commencing with a table-spoonful, till about a teacupful is reached, which is the most they ever get; this quantity is not reached till the caff is about a month old. After they are two weeks old, they get only a taste of milk; they are never fed as much gruel as we would feed were they getting milk, the idea being to get them eating as soon as possible. get them eating as soon as possible. When about two or three months old, When about two or three months old, I stop feeding the gruel, as they are then eating a sufficient quantity of other food; they start on solid food as soon as ever they will begin to eat, which they generally do in about a week. They are given a little pulped turnips and meal (chop), with fresh hay always within their reach, and fed according to their canacity. Give fresh according to their capacity. Give fresh clean feed at regular meal times and clean feed at regular meal times and cold water as they want it. In mak-ing the gruel, I notired better results when I used a less quantity than the directions call for, and I always let it boil a few minutes when always let adding water as needed when fed. We have raised as many as five calves on 100 pounds of meal. We have been using it for several years with the best results.-"Dairyman."

[Note.—Before publication, this let-ter was submitted to "Herdsman," who wishes to call "Dairyman's" at-tention to the fact that the only calf tention to the fact that the only calf he ever fed without "milk dind'r get any milk whatever, not even during the first day or two. He has followed a method similar to that advocated by "Dairyman" with good results, but not so good as where lots of skim milk was available.—Editors.]

The Canny Scot

T WO friends, a Welshman and a Scotsman, happened to be lunch-ing together recently in a certain restaurant. The latter kept turning round to see that his hat and coat remained still on the peg where he had laft them. had left them.



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FOR a woman to be wise and at the same time womanly, is to wield a tremendous influence which may be felt for good in the lives of generations to come .- David Jordan ..

> . . . The Silver Lining

By C. D. POGSON

(Concluded from last week.)

N the evening of the twenty-third O the two friends rode into town, Having stabled and fed Molly and Pepper in the "Sarnia" livery barn, they had supper at the hotel, took a stroll around town, and retired early to their rooms.

Next morning they were up at dawn fed and groomed their horses, then ate a hasty breakfast. This done they rode out to the race track, where they took several turns in order to ac-custom Molly to the lay-out of the course. Then came a baseball game, in which Jimmy's picturesque cowboy costume, and especially the capa-cious vellow silk kerchief which was knotted at two corners and thrown loosely around his neck, where it floated gaily in the breeze, attracted

Roated gaily in the breeze, attracted much attention from the crowd. After a hearty dinner the friends repaired to the grounds once more to "take in" the races which were billed for the afternoon, it being un-derstood that the bucking contest abould take place in the evening. When the "tree-for-all" was an When the half-a-dozen others lined their hor-sese up before the judges. After consees up before the judges. After con-siderable manoeuvring, the word "Go!" was given, and they were off in a whirl of dust, the lanky gray in the lead, some feet ahead of Molly. The latter gradually lost ground until word she was three lengths behind, with the other horses following closely.

Jack began to have some doubts Jack began to have some doubts regarding Molly's ability to win, but just then he saw Jimmy lean forward in the saddle until his face almost touched the mare's neck, as though he were speaking to her. And speakhe was

"Steady girl. Keep cool, That per-cession behind won't touch ye. Steady there. Just keep yer props a-flying'. Steady, I say. That old gray ain't got no wind."

Then he kept talking, while Molly gradually increased her speed until she had gained a length when they rushed past the grand-stand, and started on the second half, amid a

started on the second hait, amid a storm of applause. "Go it, Jim," yelled the cowboys. But Jimmy was so intent upon les-sening the distance between himself and Burkle that he heard not a

word. At the three-quarter mile the gray was weakening slightly, and Molly had gained another length. "Now, girl," said Jimmy, "dust it up. Sling im. Sling im, give im the knockout! Hike! Hike"

And "hike" she did, passed the gray like a whirlwind, and slipped under the wire leading by a length. The annlause was deafening. Jim-ys prang from the saddle, danced up and down, patted Molly's neck,

and showered compliments upon her

while Jack threw a blanket over her and proudly led her to the stable. Shortly after the races the Blair family drove into town. Not caring to witness the races, they had decid-ed to remain in town overnight, and do some shopping, and so timed themselves to reach town just in time for the "bucking contest."

As soon as supper was disposed of As soon as supper was disposed of the crowd gathered to see the bronco-busting. There were 10 or 12 contes-tants, and as many incorrigible horses. Needless to say, the worst in the surrounding country had been



A Tribute to the Hard Work and Good Taste of an Earlier Generation.

Big stone fences such as these, bear testimony to the fact that the clearing of many Canadian farms was "no cinch." Tree planting generally was left to the second generation, and we unto the third and fourth generations, enjoy the re-sults of their labors.-Photo in Peterboro Co., Ont.

procured for the occasion. Each man was expected to saddle the horse allotted to him for the contest, and to ride him without bit or saddleor saddlenothing more than a halter to which was attached a long halter-shank. The horses were led in by men on horseback, then blind-folded by a sack, and held in position until the contestant had placed and securely cinched his saddle. Then, seizing the loose end of the halter shank, he sprang into the saddle; the sack was quickly jerked from the horse's eyes,

And—they were off. Kicking, rearing, jumping up and down, side-stepping. the bronco tried to unseat his rider, and some-times succeeded, to the discomfiture of the latter, and the amusement of the crowd. When the horse stopped bucking, or had thrown his ride other bronco was led in. After all had ridden, the judges chose the three best riders, and the three most un-manageable horses for the "final."

Jimmy was among the contestants, and so distinguished himself as a rider, that he was placed in the final.

away in the gathering twilight towards the town. From the grand-stand Dorothy had een the rider thrown from his horse.

As he sprang to his feet, and walked towards the unfortunate Molly, there eemed something strangely familiar in his attitude. That cannot be Jack Gray, my

Jack," thought she to herself, watch-ing intently the fast retreating fig-

Ing means of the second sec ish the rider from her mind, as and her parents repaired to their

stopping-place. Upon reaching town, Jack found * neighbor, homeward bound, at the Sarnia

"Will you give me a lift?" he enquired. "Sure," answered the man. "Jump

in

"Tell Weston that I've gone home."

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called Jack to the hostler as they rove away.

drove away. Next morning, when Dorothy's father stepped into the livery-barn, he heard Jimmy, who was saddling Pepper discoursing upon the good

repper discoursing upon the good qualities of Molly. "Pardon me," said he to Jimmy, "do you know who owned the little" mare that the police shot yesterday?"

his

loped furiously across the grounds to-wards a barbed-wire fence. Jack, seated on Molly's back, and intently

scated on Molly's back, and intently watching the proceedings, saw his friend's danger. One moment's rapid thought, and he galloped headlong across the field. If he could only come between Tornado and the fence, and thus turn him back to-wards the centre of the field! There the bronco would doubtless be cap-

the bronco would doubtess be cap-tured by a number of riders station-ed there for that purpose. Jack succeeded in turning Tornado, but just as he did Molly stepped into a badger-hole and fell, tossing her

a badger-hole and fell, tossing her owner to the ground some feet away. Jack sprang to his feet unhurt, but was alarmed to see his plucky little mare standing on three feet, the other leg dangling loosely from her shoul-

der. A Mounted Police officer, elbowing hasten-

A Mounted Folice office, ethowing his way through the throng, hasten-ed across the field. After a brief ex-suffering by a bullet from his pistol. One sorrowful look did Jack bestow upon the dying horse, then strodé

mare that the police shot yesterday?" "Bet yer life I do," said Jimmy, "He's my nearest neighbor. Jack Gray's his name, an' a better feller never trod on shoe leather. He went home last night. Guess he's feelin" mighty blue, poor chap. He's regot a half, twenty miles out, two hundred broke an' seeded, big house, too, spring creek an' let me tell you. hall, twenty miles out, two hundred broke an'sceded, big house, too, spring creek an' let me tell you, stranger, Jack is steady; keeps every-thin' ship-shape. Come up from the East six years ago. First when 'Jack come he uster be a-whistlin' an' a-singin' most all the time. That was for the first couple of years; but he's been mopin' off an' on ever since. Kinder think ther's a woman to the bottom o't. 'Course he never said, but I uster take letters out ter him, an' every time he got one he moist but I uster take receive out ter anim, an' every time he goit one he most walked on air. An,' with a chuckle, "he uster send letters' down east to a Miss Blair. Jack said she was some relation or nuther, but I noticed when no more letters came, an' he, sent no more letters came, an' he, sent no more, that he got ter bein a sight bluer than I'd be over a' or dinary relation. Tell yer, friend, th dinary relation. Tell yer, irnend, to woman that tossed Jack over, dropped the substance an' grasped the shad-der. But that's the way with wimmen, some o' em at any rate, drat 'em, exclaimed Jimmy as the swung into the saddle, and turned Pepper head towards home.

Needless to say, Dorothy's father did some serious thinking on his way back to the hotel, where he had left his wife and daughter. Fortunately, Dorothy was seated at a window, window, us to all Dorothy was seated at a window, reading a book, and oblivious to all around. Drawing his wife to the shady lawn, Mr. Blair told her in a few brief words what he had learned that morning.

Mrs. Blair listened to her band's account, then, after gravely thinking for a few minutes, exclaimthinking for a tew minutes, exclaim-ed, "Let us write to Jack, and invite him over. I feel certain that he will explain everything. We will not say a word to Dorothy in the meantime. Dear child, how I hope she may yet be hanny." be happy.

The letter was hastily written and mailed, then the party started for home. They were now speeding across the flower-besprinkled prairie which, with its mirages, freedom and untamed appearance, was gradually gaining a larger place in their affec-tion, and had done much towards re-storing the roses to Dorothy's cheeks.

Jimmy arrived at Jack's in time for dinner, and while he shared the repast discussed the doings of the repast discussed the doings of the previous day in a lively manner, hop-ing to chase the gloom from the face of his friend. He also mentioned in-cidentally that he intended to go cidentally that he intended to go south in a couple of days, on an ex-tensive trip to his old home and other points. When bidding his friend fare-well, Jimmy said, "Cheer up, old man. The little mare's gone, but she left a good record. An' what's more, every cloud has a silver linin', an' you're bound ter find the linin' ter your cloud ter find the linin' ter ter your cloud, one o' these days. An," gripping Jack's hand, "thanks for savin' my life yesterday." "Don't mention it," said Jack "twas nothing"

nothing.

A few days later one of the "boys" brought Jack his mail. Among the letters was one from Mr. and Mrs. Blair, telling him of their coming to bian, tening nim of their coming to the country, and also where they were living. The latter ended with a cordial invitation to visit them at any time when he found it convenient to do

so. "Well," thought Jack to himself, "this is mighty queer. Shouldn't

Janu

think the Perhaps, Dorothy old folks anyway. familiar f news from get man; w. I h them a sl

The fo Jack sado ed him fr carried of of the Bl Pepper w in the aft home of In ansy

as open blank and face, then and red b and broy pale as a succeeded as she sa Gray. Wi "Thank

barrassed wide hall. door, and Mechanic ed seat.

"I'll cal Then, as bring Mr "No, Mrs. Gra

know the district." Doroth

ly. "Aren't "No, M surprised ried. Why-wWhy-post offic

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Jack. "No," told you "Well,"

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coming. It was perplexed "Really

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mistress f and-I th "I see," conversat One bi

Dorothy the trail they 'saw distance. "Why, Pepper. 1

trip." And Jin booted an

January, 13, 1916

think they'd wont to see much of me. Perhaps, though, Sam Taylor and Dorothy didn't come west with the old folks. Well, it's kind of them, anyway. It would be nice to see a familiar face once more, and hear the news from the east. I don't seem to get many letters from down there now. I believe 'I'll gover and pay them a short visit."

them a soort visit." The following Sunday morning jack saiddled Fepper, having borrow-ed him from jimmy, who had not yet carried out his plans for leaving, and set off across the prairie for the home of the Blairs. It was a long ride, but Fepper was accul jacket to such, and home of his old time friends.

home of his old time friends. In answer to his knock, the door was opened by--Dorothy, A look of blank amazement overspread her face, then over neck, check and brow and red blood rushed mantling check and brow, then faded, leaving her pale as a 119. Afte: a moment she succeeded in controlling her voice, as she said, "Good afternoon Mr. Cray. Will you come in?" "Thank you," said Jack in an em-barrassed tone, as he stepped into the wide hall. Dorothy opened the parlor door, and motioned him to a chair. Mechanically he accepted the profer-

Mechanically he accepted the proffered seat.

ed seat. "I'll call my mother," said Dorothy. Then, as an afterthought, "Did you bring Mrs. Gray with you?" "No, Mrs. Taylor, I didn't bring Mrs. Gray with me. In fact, I didn't know there was such a person in thus district."

Dorothy gazed at him incredulous-

ly. "Aren't you married?" she enquired. "No, Mrs. Taylor," answered Jack, surprised in his turn, "Tim not mar-ried. Who told you that I was?" "Who-why, Kitty Lowe in the post office. You remember herl But why do you call me Mrs. Taylor?" "Aren't you married?" exclpimed lack

"Aren't you married?" exclpimed Jack. "Non" laughed Dorothy. "Who told you so?" "Well," stammered Jack, "Kitty Lowe sent a card saying that you were to be married that Christmas-you and Sam Taylor. "Going to be married! And to that Sam Taylor. I wonder who told her such a story. It's false!" and the blue cys faashed. "And-and-you still love-me?" exerty auestioned Iack, with out-

sucn a story. It's niser" and the blue eyes flashed. "And-and-you still love-me?" cagerly questioned Jack, with out-stretched arms." "Yes, Jack," canned and passion-shoulder, as the stora-stained cheek. Dorothy's father and mother pre-ently entered the room, greeting Jack cordially. Words were needless-the happy look on the faces of the two young people told the parents that all was well. "But why did you not write, dear," enquired Dorothy as they took an evening strol to-gether. "Write?" replied Jack in astonish-ment. "Why, Dorothy, I ent a dozen letters at least after yours stopped ching."

coming It was now Dorothy's turn to look

It was now Dorothy's turn to look perplexed. "Really," said she, "it's a strange thing that I never received one of them. I wonder if -hesitatingty. "What is it, dear?" asked Jack. "Well, Kitty Lowe has been post-mistress for a number of years, and-and-I think she cared for yon, Jack. "I see," sail Jacd dro yone ropics. One bright September day, as Dorothy and Jack were driving along the trail towards "Meadowbrock" they saw a horseman appear in the distance, and ride rapidly towards them.

"Why, that's Jimmy Weston, on Pepper. He must be back from his

trip. And Jimmy it proved to be, belted, booted and spurred, kerchief and all.

"Hello Jack. Found the silver linin'

yet?" "Yes," replied Jack. I have it here,

"Yes," replied jack, 1 have it here, Permit me to make you acquainted with Mrs. Gray, Mr. Weston. You sec, we were just married this morning." "Hqoray" shouted Jimmy, bowing low in the saddle, in answer to Doru-thy's salutation. "Oh, beg your par-dom. Wish you much happiness, Mrs.

"An'-an'," with a sly look at the charming bride, "congratulations

Jack. "Thank you," was the happy an-

"Drop in some time soon, and have "Drop in some time soon, and have a chat," added Jack. "Thank you, that I will," said Jim-my, touching Pepper with a spur, bowing low, and riding away. ********************************

The Upward Look 2

10h A Spherel for Everyone

"WE are laborers together with In the old Welsh legends there is a story of a man who was faced with a series of what appeared to be impossible tasks to perform ere he could reach the desires of his heart. Amongst other things he had to do, was to recover every grain of seed that had been sown in a large field, and bring it all in without one

seed that had been sown in a large field, and bring it all in without one missing. By sunset he care to an ant hill and won the hearts and en-listed the sympathies of all the indus-trious little people. They spread over the field, and before sundown the seed was all in, except one, and as the sun was setting over the west-ern skies a lame ant hobided along with that grins a before the west-ern skies a lame ant hobided along with that grins a before where there is unlimited scope for everyone to do their share towards adding to the sum total of the world's happiness. Some of us can render one service, some another. Some have youth and vigor on their side, while others have probably passed the three score and ten mile post. Let us not forget, however, that there is some-thing for each one to do, no matter how small it may be. There is not one of us who cannot help in some measure, even as did the cripided arighter. If I can stop one heart from breaking,

I shall not live in vain; If I can ease one life the aching,

Or cool one pain, Or help one fainting robin Unto his nest again, I shall not live in vain.—M. M. R.

...

Some Original Conveniences Mrs. M. Shantz, Waterloo Co., Ont.

Mrs. M. shanz, widerao 0.0., ont. MRS. Burnet's letter first attract-ed my attention to the Utility busy, I at times do not find time to read everything each week. We have hard and soft water on tap in the kitchen, also trap washer with gaso-veniences to me, but not within the reach of everyone, it seems, as a lot veniences to me, out not within the reach of everyone, it seems, as a lot of my friends have not got them. I shall try and tell of two I have, how-ever, that are accessible to everyone. Unlike Mrs. Burnett, I am short and often find tables and stove too high. often find tables and stove too high. I made a stool with seven empty to-mato cans. I covered each one with an old sock, then sewed them all to-gether and covered the whole with heavy goods from an old skirt. This I can stand on, or put on any chair to be a stand on, or put on any chair to be, etc. I am sure anyone mot having a high stool will find this a great convenience. great convenience. Being the mother of four small

children, and often without a maid, I have a box for my nine-months-old bad 18 inches dwo, Thuches long with dark blue flowered cretonne in-side and out, and around the top a piece of white oilcloth doubled two inches inside and out. The oilcloth can be wiped of when soiled. A folded blanket is in the bottom and baby plays in there most of her time, since seven months of age. At first it was too deep, so I put a two-inch plank in the bottom. She can pull herself up and stand with her arms over top. I think this helps to strengthen her limbs for waking. If this explan-tion is not clear, I would glady give Ferro med Duiry and all is needen anyone more information. I wish Farm and Dairy and all its readers a very happy New Year.

...

New Doorway a Decided Convenience

Mrs. Fred English, Peterboro Co., Ont.

Mrs. Fred English, Peterboro Co., Ont. HAVING noised the Utility Con-test in Farm and Dairy. I thought perhaps I might be able to contribute something that would be of value to someone else. I might here say that since I came to the farm and Dairy, and have received much useful information coming to our farm for a number of years-in fact, long before it was called Farm and Dairy, and it has always been considered a welcome visitor. visitor

visitor. To explain what I think my great-est convenience, I must describe our house, which is a substantial brick building, built in the old style of large dining or living room, with kitchen, stairway, and pantry off one side. Formerly, to eet from the kit-chen to the pantry, we had to go through the dining-room and past distance. distance

One day I suggested that we have One day I suggested that we have a door cut through under and back of the stairs and so connect the kit-chen and pantry. After some con-sideration my husband, who is a sort of "jack-knife" carpenter, went to work, and in a short time had the doorway completed. I can now go from the kitchen to pantry without entering the dining-room much cleaner, and sopire on many sters. In many and saving so many steps. In many houses a doorway or partition could be changed that would save the busy housewife many steps, and so make life a little more pleasant. . . .

Some Appreciated Labor Savers

Mrs. L. C. Beer, Wellington Co., Ont.

Mrs. L. C. Beer, Wainpiton Co., Ont. THE Utility Contest annuation tracted my attention a week or so ago as I always turn to 'he pages for women first. As I am of a rather timid nature, and have a dread of the waste paper basket. I have rate abort for this contest, I have rate a brave attempt to let other women know of the conveniences in my

I happen to be fortunate enough to have several labor-saving devices. to have several labor-saving devices. I have a washing machine and win-ger that is far ahead of the old wash board and the, and a yacuum washer that does good ork, also a bread-miner that I and very handy, as you do not need to put your hands into the dough at all when making bread I think it makes just as good bread as the old way, but I have heard some say they could not get good bread with them. I always measure my liquid and flour and turn about half an hour. Nor must I forget my ironing



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-THE-Sherlock-Manning Piano Co.

London, Canada (No street address necessary) 70





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Dorothy's

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Jimmy. or. Jack ter feller

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A Red Letter Year \$100.000.000 in Mutual Policies

HE Mutual Life of Canada now ranks among the few nine-figure Canadian Life Companies

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board that is always ready to use by turning down. It is fastened to the wood work in the kitchen by two hinges, and when not in use is turn-ed up flat against the wall. It is close to the frame of the door and a small wooden button is fastened to the door forme with a screw so the the door frame with a screw so the button will turn and hold the ironing board in place when not in use. The board is shaped at the outer end to answer as a shirt board, and has a

answer as a shirt board, and has a brace to put under it when in use. I find it far ahead of the bought boards as it is never in the way. Our water system, I think, is our greatest convenience. Our cistern is greatest convenience. Convenience, convenien soft water at all times of the year; this saves going outside and dipping it up as we used to do. We also have a sink and hard water tap in the pantry supplied from a large tank at the barn that is always kept full, being forced there by a hydraulic ram so we always have fresh water on tap. This also supplies water at the stables and pig pens. The men find this a great help, having running water at the barn. water at the barn.

Gasoline Does the Work

Mrs. J. A. Ogilvy, Victoria Co., N.B.
 Image: Star opting, Filtering Co., Filtering

 WOULD like, if I may to let Our Folks know what I have found to be the greatest help in my work. It came almost by accident and is a

It came almost by accident and is a small gasoline engine. The engine was got for the purpose of turning the separator and pump-ing water for the stock, so you see it was not my convenience at all. By degrees, however, other machines were attached to the engine shaft and the churn, washing machine and ice-cream freezer each have their place now besides the pump and separator,

now besides the pump and separator, and can be run separately, or all at care you imagine how nice it would be on a warm summer morn-ing to see your churn in one corner, and washing-machine in another, working away busily; while you rest, or as is more likely, do aome of the numberless little jobs that are always needing doing, and that so often wor-ry you while you try to wash or needing doing, and that so often wor-ry you while you try to wash or churn by hand. Besides, you have the comfort of knowing that no one is being tired in your place, and that the cost of running comes to a little more than five cents per hour. Try it. . . .

Making Tough Meat Appetizing

M ANY are the ideas of house-keepers regarding the various cuts of meat. Some people in-sist on always having the best cuts - cuts of meat. Some people in-sist on always having the best cuts of meat, no matter how they may in-tend using it. This, we consider to be extravagant, especially nowadays wuch as performed in the soared to be extravagant, especially nowadays wuch as performed in the soared to be extravagant, especially nowadays in the soared to be and the in our meat bill as well as in other ways by studying the best way to which to use the cheaper cuts of meat, so that they may be made ten-der and appetizing. The following method of making an excellent roast from a very tough cut of beef, is re-c--mended by the North Dakota Exceriment Station: Select a thick cut of the lower round or any other portion that is without bone (this should be three or four inches thick). Pound flour into the meat on both sides, (about one and one half cups of flour can be pounded into a three or four pound be.

One and one half cups of flour can be pounded into a three or four pound piece). The pounding breaks, up the fibre and the flour retains the juices. Sear the meat all over and place in a roaster. Pour the contents of a can of tomatoes over the meat. Onions and other seasoning may be added, according to tasts. Cook slowly, This muckes i tander coast and avech according to taste. Cook slowly. This makes a tender roast and excelJanua

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lent gravy. It also is very good when sliced cold. . . .

Cleaning the Silver

HOSE of us who are fortunate to have a number of pieces of silhave a number of pieces of sil-verware, sometimes find it rath-er difficult to secure a cleaner that we consider quite satisfactory. Ac-cording to the Department of Home Economics at the Nebraska College of Agriculture, the principle of mak-ing a cleaner for the silver is quite simple and anyone should be able to make an outfit with the outlay of a few cents for zinc. The blacken-ing of silver is due to the formation of a compound with sulphur. This compand may be broken up by an electrolytic current produced in the following manner: following manner:

In a vessel large enough to hold the silver to be cleaned, place a strip or piece of zinc about the size of a person's hand. Add sufficient hot water to cover the silver. To each quart of water add about a teaspoon-ful of salt. An equal amount of soda is sometimes added, but is not necessary. Cold or warm water may be used but the action of the silver to be cleaned. It may be con-venient to place it in a wire basket. Unless the silver is hadly darkened, the stains will disappear in a minute In a vessel large enough to hold the stains will disappear in a minute or two, when the silver should be rinsed and dried.



BRILLIANCY of plumage, sweet-ness of song, and food habits to which no exception can be taken are some of the striking char-acteristics of the Baltimore oriole. In summer it is found throughout the northern half of the United States



east of the Great Plains. Its nest commands hardly less admiration than the beauty of its plumage or than the beauty of its plumage or the excellence of its song. Hang-ing from the tip of the outermost bough of a stately elm, it is almost inaccessible to depredators and so securely fastened to bid defiance to the elements.

Beservation both in the field and laboratory shows that caterpillars constitute the largest item of the fare of the oriole. In 204 stomachs they formed 34 per cent of the food and they are eaten in varying quan-tities during all the months in which the bird remains in this country. The fewest are eaten in July, when a little fruit is taken. The other insects consist of beetles, bugs, ants, wasps, grasshoppers and some spiders. The beetles are principally click beetles, the larvae of which are Click beeties, the invace of which are among the most destructive insects known; and the bugs include plant and bark lice, both very harmful, but so small- and obscure as to be passed over unnoticed by wasps and spiders with considerable regularity, throughout the season. During the stay of the oriole in the United States, weretable matter

During the stay of the oriole in the United States, vegetable matter amounts to only a little more than 16 per cent of its food, so that the possibility of its doing much dam-age to crops is very limited. The bird is accused of eating peas to a considerable extent, but remains of such were found in only two cases. One writer says that it damages grapes, but none were found in the stomachs.

WITH the sales. alert for bargains c rather tha merchants at a sacrif for most of to make u other duti might not un diouses so frequent getting the up and al needed. At one runs a made garm underskirts siderable r have one ments to a 1526-Lady

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January, 3, 1916

FARM AND DAIRY A Reminder of January Whitewear Sales What Is Auto-Intoxication --- And How To Prevent It

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The back is laid in two pleats and at the sides there is a pleated inner. The points running down over this insert and the belt with two or three buttons, are all the trimming necessary. Bix sizes: 2 54, 55, 25, 30, and 32 inches waist meas-

(ii) the trian process since, "Bit services and the trian process since the service services and the service services and the services services and the serv

measure. 1992.-Lady's "Over All"Apron.-Nothing in the apron line-looks quite so neat as the styles that fit in at the waist. This over-all define presents a very next ap-pearance. Three sizes: small, medium and large.

By C. G. Percival, M.D. "Self-Intoxication, or poisoning by compounds produced internally by oneself."

I nis definition is clearly intelligible because it puts Auto-Intoxication ex-actly where it belongs: takes it away from the obscure and easily mis-understood, and brings it into the light as an enervating, virulent, poi-sonous allment.

It is probably the most insidious of all complaints, because its first indi-cations are that we feel a little below par, sluggish, dispirited, etc., and we are apt to delude ourselves that it may be the weather, a little overwork

or the need for a rest-But once let it get a good hold through non-attention to the real cause and a nervous condition is apt to develop, which it will take months to correct. Not alone that, but Auto-Intoxication so weakens the toundation of the entire system to re-sist disease that if any is prevalent at the time or if any organ of the body is below par a more or less serious derangement is sure to fol-

serious derangement is sure to tor-low— The ailments which have been com-monly, almost habitally, traced to Auto-Intoxication are: Languor, Headache, Insomnia, Bilousness, Kina, Kheumatim, Neuralgria, Kid-ney Disturbance, Liver Troubles. There are several conditions which may produce Auto-Intoxication, but by far the most common and preval-ent one is the accumulation of waste in the colon, caused by insufficient exercise, improper food or more food than nature can take care of under our present mode of living. I wonder if you realize how preval-ent this most common cause of Auto-In-or of a ruly is -- the clearest

ent this most common cause of Auto-Intoxication really is--the clearest proof of it is that one would be en-tirely safe in staing that there are more drugs consumed in an effort to correct this complaint than for all other human ills combined--it is in-deed universal, and if it were once conquered, in the words of the famous medical scientist, Professor Eli Metchnikoff, "the length of our lives would be nearly doubled." He has specifically stated that if our colons were removed in early in-fancy we would in all probability live to the age of L50 years.

fancy we would in all probability live to the age of 150 years. That is because the waste which accumulates in the colon is extremely poisonous, and the blood, as it flows through the walls of the colon, ab-sorbs these poisons until it is per-meated with them. Have you ever, when bilious, experienced a tingling sensation anarent ever shows the sensation apparent even above the dormant sensation which biliousness creates? I have, and that is Auto-Intoxication away above the danger oint.

Now, if laxative drugs were thorough in removing this waste, there could be no arraignment against ther

But they are at best only partially

By C. G. Percuval, Mais. Perhaps the best definition I have effective and temporary in their re-ver noted of Auto-Intoxication is sults, and if persisted in soon cease Self-Intoxication, or poisoning by Self-Intoxication, or poisoning by tompounds produced internally by meself." This definition is clearly intelligible sisting her.

sisting her. There is, however, a method of eliminating this waste, which has been perfected recently after many years of practice and study, which might be aptly termed a nature remedy. This is the cleansing of the colon its entire length, at reason-able herides, by means of an intern-al bath, in which simple warm water and harmless antiseptic are used. Tillion ever one and

This system already has over half a million entubusiatic users and advo-cates, who have found it the one effective and harmless preventive of Auto-Intoxication, and a resulting means of consistently keeping them clear in brain, bright in spirits, en-thusiastic in their work and most cap-able In its performance. The one great merit about this method, aside from the fact that it is no effect of the two no error nurred

so effectual, is that no one can quarrel with it, because it is so simple and natural. It is, as it is called, nothing but a bath, scientifically applied. All physicians have for years commonly recommended old-fashioned Internal Baths, and the only distinction be-tween them is that the newer method

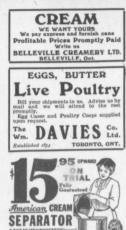
Baths, and the only distinction be-tween them is that the newer method is infinitely more thorough, wherefore it would seem that one could hardfy fail to recommend it without stulify-ing himself, could he? As a matter of fact, I know that many of the most enlightened and successful specialists are constantly prescribing it to their patients. The physician who has been re-sponsible for this perfected method of Internal Bathing was himself an invalid twenty-five years ago. Medi-cine had failed and he tried the old-fashioned Internal Bath. It benefited him, but was only partially effective. Encouraged by this progress, how-ever, he improved the manner of ad-ministering it, and as this improved

ever, he improved the manner of ad-ministering it, and as this improved by the second second second second Hence, for twenty-five years he has made this his life's study and prac-tice until to-day this long experience is represented in the "J. B. L." Cas-cade." During all these years of specializing, as may be readily ap-preciated, most interesting and valu-able knowledge was gleaned, and this practical knowledge was gleaned, and will be sent to you on request, without by in a most interesting way, and will be sent to you on request, without cost or other obligation, if you will simply address Chas. A. Tyrrell, M.D., Room 396, 257 College Street, Toronto, and mention having read this article in Farm and Dairy. The inclination of this age is to keep as far away from medicine as possible, and still keep healthy and capable. Physicians agree that 95 per cent of human aliments is caused by Auto-Intoxication. These two facts should be sufficient to incline everyone to at least write for this little book and read what it has to say on the subject.— (Advertisement).

(Advertisement).



(16) 36



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FARM AND DAIRY

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

The Problem in Butter-Making J. A. Ruddick, Dominion Dairy Com-

THE improvement in the quality recent of Canadian butter in recent years has resulted in a great increase in home consumption and consequently enlargement of the market.

crease in home consumption and con-sequently enlargement of the market. Every effort which has been made through the different agencies, both federal and provincial, to raise the standard of quality has been well worth while and the results are a standing encouragement to twiven. In those semiconhering system is effort with the same of the country where the consigned measure for the butter is of greater importance, or is likely to be more successful, than that of cream grading. The results already attained in Alberta, Sakat-chevan and Manitoba, especially in Alberta, are abundant proof of the practicability and efficiency of the methods which have been adopt the rear as auplied an be supplement-erading, which will ensure a fair di-crimation in price according to grade, the stimulus thus given to everything which makes for better quality will be very great.

grade, the stimulus thus given to everything which makes for better quality will be very great. The value of the grading of the cream or butter lies in the fact that it leads to payment on a quality ba-sis. It is the lack of this discrimina-tion in the butter trade generally, especially in relation to the primar especially in relation to the primary sale, by the manufacturer, which stands as the greatest barrier to pro-gress that the industry has to face. All arguments or representations gress that the industry has to face. All arguments or representations looking towards improvement 'lose their effect when it can be asserted in reply that the butter of inferior quality can be sold at the same price as other butter produced under very much better conditions much better conditions.

Present Method Discouraging

Present Method Discouraging We are not concerned for the mo-chants are impelled to do business in this way, we merely want to point out a few facts as briefly as possible. This tendency to strike an average value neither encourages the pro-gressive butter maker who turns out a superior article, nor punishes the indifferent or careless maker whose product is of inferior quality. Neither the creamery owner nor the patron of the creamery can be expected to of the creamery can be expected to



take much interest in the matter of take much interest in the matter of quality when they see butter of wide-ly different quality being sold for practically the same price. If there were the same discrimina-tion in value in the purchase of but-

ter from the manufacturer as there is in the retail trade the patrons of many creameries would soon awak-en to the fact that they were receiv-ing a very much smaller return for their milk or cream than the patrons their milk or cream than the patrons of other creameries where the busi-ness is conducted on better lines. How to secure full value and a reas-onable discrimination in price is one of the greatest problems before the dairymen of this country. It is the problem of problems. It were solv-ed most of the other problems would find before the dairymen of Canada to-day which deserves more careful study and attention. study and attention.

Sweet Cream for 14 Years

THE City Dairy Company of Toronto has one cream shipper whom they value highly. In the Whom they value highly. In the 14 years that he has been shipping cream to them, D. J. McClure, of Churchville, Ont., has not sent them a single can of sour cream. Farm and bairy recently wrote to Mr. McClure, who is an old friend of ours, for an outline of his methods of keeping cream sweet. Following is Mr. Mc-Clure's letter in full: "Cleanliness is my first great secret.

Add to this in abundance of ice, and it is easy to keep cream sweet. Some think once a day is sufficient to wash cream separator. I never got that idea; separator al pails are always washed morning and evening, and thoroughly scalded. I have always been very careful never to let the ice supply get out of the vat, as one hot day in summer without ice would have a bad effect on sweet

"For winter, I had a place made in the cellar large enough to hold a cream vat. The window in the cellar was kept open, except in very cold weather, and I always had either ice or snow in the cream vat. I never add hot cream to cold; I always let it get chilled before putting together. In the 14 years that I have been ship-ping to the City Dairy Company, the cans came back perfectly clean and sweet, but I never put cream in to ship again without scalding the cans. My separator and milk vessels are on a rack at the south side of the house in the sun all days in summer. If the stable is looked after in winter and things kept clean, in addition to the foregoing simple rules, it is impos-sible for cream to get sour."

For some years previous to the in-troduction of the rennet extract cheesemakers were able to secure what was known in the trade as Bavarian "rennets." These were calves' stomand dried so that they could be kept without deterioration for some time. In still earlier days it was the prac-tice to secure the calves' stomaches tice to secure the calves' stomachs from the farmers supplying milk to the factory. Indeed as one time, in some districts at least, it was the rule that each patron had to furnish the cheesemaker, gratis, with as many calves' stomachs or "rennets" as he had cows in his herd. If some of the calves were raised it was necessary to secure as many stomachs from some farmer who was not sending milk to a factory.

I do not know of any better edu I go not know of any better edu-cator than the sediment test. It dis-gusts a patron, when he sees the cot-ton disc containing the dirt from just one pint of his milks to think that he is sending in such stuff.--Ceo. H. Barr, Chief of the Dairy Division, Ottawe Ottawa

January 13, 1916



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----HOLSTEIN-

THE 33rd stein-F will b ters' Hall, of Yonge), February 3 The Exect Wednesday, the Oarls-R

Members ed that the Feb. 1. All the secreta be properly the remitt the annual and in the proper reco to give rec

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The eight stein-Friesia be held on p.m., at th Ont. Dr. J. A. Globe, Mr. i Minister of H. H. Dean Outario Ass

H. H. Dean Ontario Agr others, will sical progra Ladies are Those who a favor by Richardson, mittee, Oak

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your Ad. for o-night. Tell w what you

January, 13, 1916

HOLSTEIN-FRIESIAN NEWS

Word's Line's mail software the lossing exponent of dairying in Chanda. The great majority of the members of the Canadian Heistein - Friedan Association are renders of the Association are frequent of the second the second software of the second software and the second software second software and the second software set to Hoistein of these for pub-lication in this colamn.

HOLSTEIN-FRIESIAN ASSOCIATION OF CANADA.

CANADA. THE 3dd abnual meeting of the Hol-stein-Friesian Association of Canada. will be held in the Canadian Fore-ter Hall. 2: College dfreet, tnear corner February. Foronto, Ont. on Thursday. The Executive Cat 3.3 am. The Executive Cat 3.3 am. the Gazie-litte Hotel, opposite the Union Station.

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must be black and white in color. Ani-must a showing the markings hereafter ever, and a shall not be accepted for regis-register of the second second second second second (1) and the second second second second second (1) and the second s

b) the associate communities of the association of the association of the second of

The eighth annual hanquet. The eighth annual hanquet of the Hol-stein-Frienian Association of Canada, will be held on Weinseday, Feb. 5, 256, as 6, 30 pm. at the Carlie-Rite Hole, Toronto, OD-7, J. A. Maedonald, or the Toronto Hole, Mr. O. F. Balley, Assistant Deputy-Minister of Agriculture, Toronto; Prot. H. R. Deam, and Prof. 3. 8. Day, of the Onterio Agricultural College, Assista, and cisal programme will be provided. Ladies are invited as well as gentlemen. Takes who expect to atlend will confer a favor by dropping a cadd to Mr. J. W. mittee, Caledonia, Ont., so that be may

FARM AND DAIRY

have an idea of the number to proper Bar Zhave and the second sec

FICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM DECEMBER 1 TO DECEMBER 15.

Mature Class.

Mature Class. 1. Anguje Paforil Johanna, 867, 87, 3m. 15d.; 65d.; 1bs. milk, 24,54 ibs. fat., 30,69 1bs. 80 per cont. butter.-Grouton B. Gooder-ham. Glarkon. 2. isabel Pontiac Lyn, 15448, 69, 7m. 10d.; 367,8 ibs. milk, 33,7 libs. fat. 2564 ibs. but-ter.-Arbogast Bros., Schringreile. 3. Breygress March Sch. 2005, 67, 9m. 341, 560,3 ibs. milk, 33,7 libs. fat., 253,1 ibs.

Jac. 2000; 106. mills, 2004; 106. fat, 102.01 km, 114.day, record, 57. 79., 126.1, 111.00 lm, mills, 30.30 lm, fat, 44.39 lms, butter—Director, and the state of the state

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George. J. Three-Year-Class. 1. Veeman Ldly Hartor, 247(4, 3, 4) 504, 533, 144 millt, 553 [156, 54, 350 1bs. 1. Yeeman Beauty Queen, 24753, 3, 60, 104, 3567, 1bs. mills, 1356 [1bs. fast, 154, 35 1bs. butler.-N. S. Bender. 3. Adelaide De Kol Gyringbank 2nd, 21.

826, 3y. 3m. 28d.; 302.2 lbs. milk, 11.36 lbs. fat, 14.20 lbs. butter.-T. H. Dent & Son.

14-day record: 27 9m. 28d.; 660.5 ibs.milk, 25.35 ibs. fat, 25.60 ibs. butter.-Daniel B. 6. Colamba Theore, 35.05, 27, 10m. 34d.; 372.6 ibs.milk, 12.33 ibs. fat, 15.44 ibs. but-ter.-Jacob Leualler, Bright. 6. Badie Beets Korndyke, 53.56, 27, 9m. 30d.; 35.1 ibs.milk, 12.23 ibs. fat, 15.29 ibs.

butter. 14-day record: 2y. 9m. 30d.; 668.2 lbs. milk, 25.11 lbs. fat, 28.89 lbs. butter.-Dan-el B. Tracy. 7. Olive Francy Schulling, 2429, 2y. 8m. 1d.; 257.7 lbs. milk, 1153 lbs. fat, 14.29 lbs. butter.-James Hettle. 8. Flossie Hengereyel 2nd, 23301. 2v. 11m.



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ORCHARD LEIGH HOLSTEINS

ORCHARD LEIGH HOLSTEINS AT Orchard Leigh Parm. owned by A Torchard Leigh Parm. owned by Ont. many good records were made first pure bred Ablatein born on the farm, as a senior fourty-senior dimed Abla los, butter from 579 He milt in 7 day. the butter from 579 He milt in 7 day. the butter from 579 He milt in 7 day. the farm of the farmer of the farmer of the farmer of the farmer of the class for all Canada. Her day, Midnight farm for all Canada. Her day, Midnight farm for All Canada. Her day, Midnight farmer of the farmer of the farmer of the milt & AO.T. resort. 360 He milt



enough for service, and are sired by a maternal brother to the champion B. of P. two years old treeord. Mill from damiby Dubles of Ayra, as on of the er-champion cow Primrose of Tanzie-wyld (record, 1655 has of mills and 63 has, of fati, and all from cown of er-cellent framilies of profusore (B. of P. on both dam's and sirve a denove (B. of P. w. W. Ballayten & Sen, R. J. Stratierd, Ost. For particulars and prices, write W. S. BREAKEY, THORNHILL, ONT.

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Large Cows. Large Teaks, Large Records, High Testers. Choice Young Bulls and Bull Calves and a few Cows for sale. W000005SE BROS., R. R. NG. 1, MOOREFIELS, GWT.

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and 275 lbs owns mad-mulk in 7 first prize Gousph Wi of any or moving sec R.O.F., as testing 3.6 In the 1 and a bui land Lado old 7 day 269.5 lbs. year as a per cent., to qualify as a juni 2.8 Jbs. three months: i Two of hi De Kol, a coses Prid 2.8 Jbs. the state of the state

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January, 13, 1916

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A Holstein Bull For You There only not had hen Farn and Data of the state of a constant of the perturbed of the state and the name of the state of the state and the name of the state of the state the state of the state of the state of the state the state of the state of the state of 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 the state the state of the state

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Young Bulls, from four to eleven months. Biohly bred and well grown: also a few females. Prices right. For particulars as to breeding, etc., write me before you buy. Write, 'phone or call. L. F. BOGART, R. R. 3, NAPANEE, ONT.

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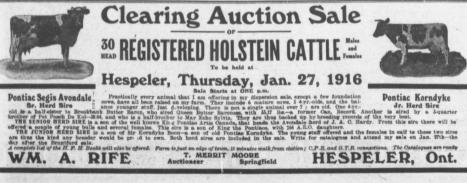
▲ 13 months old Son of May Echo Lyons Segis, dam Lady Trenton-record 15,336 lbs. milk, 700 lbs. butter in 11 months, milked twice a day. Price \$125 delivered anywhere in Ontario

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-A Chance To Get May Echo Breeding-We are offering a searching (7 m.hs.) and a junior bull call of the world fam-ous May Eche strain. Both are sired by May Echo Prince, a sen of May Echo pyrich is his has been been built of the world fam-pyrich is his has been been of May Echo Prince, a sen of May Echo world for the presenting bull, Nell Boce Do Ech, has Ec.D.9 standing of 13.88, and is a splendid type. The dam of the searching bull, Nell Boce Do Ech, has Ec.D.9 standing of 13.88, and is a splendid type. The latent of the searching bles. A day. Both calves are fine husby lade of rood comformation. Also for sale, some milch cover and heffers. Write for fuller particulars to cover

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FARM AND DAIRY

January 13, 1916



SYDNEY, NOVA SCOTIA

40 (20)



To Our Women Folks

As stated in our last ibsue, we have been negotiating with the wholesalers who have been supplying us with our 40-pice tea sets with a view to getting control of the stock of these premiums which they still had on hand. The war has interfered with the trade in semi porcelain and we had espected to hear that the supply was nearing exhaustion. To our surprise we learned that there were

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. Our 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 semi poresiain and is decorated with a gold band. It consists of 12 cups and saucers, tweive ten 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.

