

The Edmonton Summer Fair

HE Directors of the Edmonton Fair are now congratulating themselves on the successful conclusion of the greatest fair in the his tory of their institution. The physical equipment of the new fair grounds equipment of the new hair grounds and the number and quality of ex-hibits places this western fair in the same class with the eastern fairs held at Ottawa and London. As an eviat Ottawa and London. As an evi-dence of the increasing support given this fair by the public, 't is neces-sary only to mention the attendance on the closing day. On Friday the paid admissions totalled \$12,882 as compared with \$7157 in 1916, and the compared with \$7157 in 1915, and the receipts at the gate were \$5,673.75, as compared with \$2,852.75 in the previ-ous year. Including passes and all the total attendance of the day was 20,121. On every other day of the fair, gate receipts established a new record.

The drawing card on the closing day was the automobile races. Eight of the world's great auto racers competed. The auto parade was another attraction. The cars were degreat attraction. corated and many fine designs were shown. In the class open to commershown. In the class open to commer-cial firms, James Ramsey, Limited, won-first on a float, the conspicuous feature of which was a huge clock, the hands of which were set at half past five, the daily time of the big store's closing. "The Originators of the Early Closing Movement," said the inscription. The whole parade was to the Farm and Dairy editor, who was in attendance, a remarkable de-monstration of the growth and de-velopment of the automobile business in the West

Dairy Cattle.

The four dairy breeds represented were judged by Mr. W. W. Ballantyne of Stratford, Ont. Holsteins held the numerical superiority, there being three exhibitors,—J. H. Laycock of Okotoks, George Bevington of Winterburn, and the Duke of Sutherland of Hay Creek. These herds had prev-iously contended at Calgary, but the Bevington herd was in better shape than at the previous fair. J. H. Lay-cock had the first aged bull, and the senior and grand champion in his Korndyke Posch Postlac, a strong bull of excellent Holstein type. Prin-cipal DeKol, exhibited by the Duke of Sutherland, was second, and Bevington was third and fourth.

Laycock also won first on two-year old bulls, and on the senior calf, Beyington having the first senior yearling, and the best junior calf. In the milk classes, the winning in-

dividual was Bevington's "Duchess of Spring Hill," a cow with a splendid milk vein development, but in some respects inferor to "Princess of Hol-denby DeKol," Mr. Layeock's entry. Mr. Bevington was also successful in securing first on his cow three years old, heifer two years old, senior year-ling, and junior calf. The Duke of Sutherland had the best junior yearling helfer, and Laycock was first on senior calf.

Jerseya were exhibited by Jos. Harper and Sons, of Westlock, Alta., who had the largest exhibit and were the principal winners; S. Hyman; W. J. Williamson of Fort Saskatchewan and w M. Allyn of Morinvale. There W. S. Alyn of scornvale. There were some splendid ladividuals of this breed and they constituted one of the most attractive showings of the dairy section. "Pet's Kenntcky Won-der," shown by Harper, was the senior and grand champion. The female grand champion was "You'll Do." a wo year old heifer, also exhibited by

Harper. Robt. Ness of De Winton, Alberta, NODL Ness of De Winton, Alberta, was the only exhibitor of Ayrebires. His herd was in its usual good show condition, and he had entries in every class. Guernseys were exhibited at

Edmonton for the first time this year. the Jean Duluth Farms of Wisconsin ue of the greatest hards on the con tinent, having a herd on hand. Two herds of Red-Polled cattle competed, Two the Jean Duluth herd of Minnesota and the Ellioit herd from Irma, Alberta. berta. As was to be expected, most of the ribbons went to the United States herd.

Sheep and Swine.

All the well known breeds of sheep ere represented, and among the well known eastern breeders, were Col. McEwen of Brantford, Peter Arkeil and Sons of Teeswater, and Wm. Bowman of Guelph. Among the Western men were Wm. Gilbert of Stoney Plains, Ball of Salisbury, Hoover of Bittern Lake, Smith of Camrose, Stew-art of Hastings-Coulee, Hutchinson of Duhamel and Campbell and Ottowell of Edmonton. McEwan divided honors in the Shropshires with Gilbert; in Oxfords Arkell had much his own way, and in Suffolks Bowman secured the major portion of the red ribbons.

There were no less than seventy-one entries in the Yorkshire classes, and Ball of Salisbury secured the largest number of firsts. Duroc-Jerseys were even more numerous with eighty-three entries. Tamworths and Hampshires were also well represented.

Beef Cattle.

Beef cattle are still more popular with fair visitors in the West than are dairy cattle and all three breeds were this year represented. In Shorthorns the great herd of J. G. Barron of Carberry, Manitoba, stood first in number of awards, but splendid exhibits were also made by Yule and lowes, Carstairs, and Wm. Robinson of Vermillion. In Aberdeen Angus the principal competitors were J. D. Mc-Gregor of Brandon, Man., Wm. Bow-man of Guelph, Ont., and W. R. Stewart of Hastings-Coulee. The Manitoba breeders secured both grand cham-pionships and three of the four champions

The showing of Herefords was the largest and best ever seen in Edmon-ton. The fact that several of the bulls on exhibition had cost their exhibitors thousands of dollars, added to the inrest. There were also, however, me of the finest cows of the breed in terest. aome of the nuese cows of the breed in Canada, these being "Miss Armour of Fairfax" shown by Chifford, "Beau Fairle" a three-year old from the champion herd of Hayfield, Manitoba, and "Beauty of Fairfax," a senior year-ling, recently imported by Fuller of them. Girvin.

Horses

In the borse classes, there was the usual fine entry of roadsters, car-riage, riding and draft horses, the lat-Plage, roung and draft horses, the new ter prodominating in point of numbers, The awards were placed by Mr. Robt, Graham of Ontario. Percherons made an unusually strong showing, although Clydesdules were well up to the standard

A satisfactory feature of the fair from the standpoint of the exhibitors was the large number of sales made during the course of the exhibition. Private sales of live stock must have totalled between \$35,000 and \$40,000. Of Of course, there was no pub-lic auction and our editor could get no accurate figures but probably the estimate is conservative. The biggest trade was in Shorthorns, and Yule and Bowes disposed of over \$8,500 worth of young stock, Another Shorthorn hibitor, Mr. J. Miller of Ashburn, Ont., sold all his available stock. Sheep and swine breeders did a particularly heavy business, as was to be expected in view of the high prices of pork and wool. From all standpoints, the Ed-monton Exhibition this year was a grand success.



Trade incre VOL. XX

N a recent an article believe, is

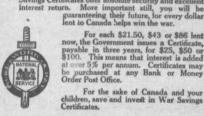
corn grower. results of sev corn carried by the Illinois were briefly th careful scrapi with no atter vield of some a similar plo which remove ideal soil mul

Although the that he does findings, his o he is heartily an able expone Good, of Paris mum yield of ough cultivatio by light harro pears. These three applicati to the period w high when, stances, all cu is given as the per crop.

While reluct ence in growin illustrious adv the further di greatest impor therefore, open it will be freel suggestions ma one and all to

Our object in the cheap prod lent feed that use; secondly, cate weeds an shape for the s which follow in outlined above It is scarcely

of the average acre. The adv and thoroughne instance is four being the case, article running large as would conditions of a made? If not, clude that, give tilized as we a



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TORONTO, ONT., JULY 26, 1917

More Corn---Less Work---Is It Possible?

Keep the Cultivator Bright and the Silo Will Be Full

N a recent issue of Farm and Dairy appears an article under the above heading that, we

believe, is descrying of the attention of every corn grover. In this article Mr. Ell's submits the results of several experiments in the growing of corn carried on during a period of eight years by the Illinois Experiment Station. The findings were briefly that a plot kept free from weeds by careful scraping with a sharp hoe, very shallow, with no attempt at loosening the soil, gave a yield of some six bunkels corn more per acre than a similar plot given three shallow cultivations which removed all the weeds and maintained an ideal soil mutch.

Although the author is careful to make it plain that he does not wholeheartedly endorse these findings, his conclusion (in which, by the way, he is heartily supported in a later article by such an able exponent of farm economics as Mr. W. C. Good, of Paris, Ont.), is that to grow the maximum yield of corn at minimum expense a thorough cultivation of seed bed should be followed by light harrowing after seeding until corn appears. These in turn are succeeded by 'wo or three applications of the corn cultivator extended to the period when the plants are two to three feet high when, unless under exceptional circumstances, all cultivation shall cease. This, briefly, is given as the ideal method for growing a bumper crop.

While reluctant to oppose my limited experience in growing corn for the silo to that of those illustrious advocates of this method, I feel that the further discussion of this matter is of the greatest importance to every corn grower. I am, therefore, opening the question in the hope that it will be freely discussed; that some helpful suggestions may be offered which will enable us one and all to grow more corn with less work.

Why We Grow Corn.

Our object in growing corn is two fold: First, the cheap production of a large amount of succulant feed that may be readily stored for future use; secondly, the handling of the field to eradicate veceds and to put if in the best possible shape for the growth of the grain and grass crops which follow in the rotation. Will those methods utilined above do these two things well?

It is scarcely fair to compare the production of the average field in the matter of yields per acre. The advantage in quality of soil, fertility and thoroughness of cultivation in nearly every instance is found with the experimental plot. Such being the case, are the yields of corn quoted in the article running from 31 bunkels per acre to 45 as large as would reasonably be expected under the conditions of soil etc., under which they were **mader** if not, it would seem reasonable to conclude that, given as good average soil well fer**tlised as it** was likely to find in most experiS. A. BRETHEN, Peterboro Co., Ont.

mental plots, this rather ordinary yield of corn could only be attributed to the methods employed in its cultivation, or, rather, to its lack of cultivation. If the maximum production is not reached from thus limiting the number of cultivations, what of the effect of this practice upon eradication of weeds and tilth of soils? We all know the excellent crops of grain and stand of grass seed frequently obtained on fields upon which a crop of corn has been grown without giving this land any fall cultivation other than that which it received in growing the crop of corn. Would this be possible under ordinary conditions if but three cultivations were given the corn? Or would it be possible under the method giving largest yield in the experiment where the ground was just shaved to remove the weeds and no attempt was made to stir up the soil allowing it to bake as hard as it liked?

Will We Stop Cultivating Now?

Many corn fields in Ontario, including our own, have already this season received their third or possibly fourth cultivation. Will we stop now? If we accept the finding of the Illinois Experimental Station, and think it applies just as truly to our own corn field for the balance of the season. On the other hand, I think the majority of



\$150 Per Cow

W HAT did your best cow sam for you last year? A seven-year-oid grade in a herd mare Oxford Mills, Ont, that milited from March 30, 1916, to Jan. 30, 1917, gave 363.9 lbs. fat, which at 45 cents per pound equals the substantial sum of \$153.75. Perhaps you get more.

Fortunately, the owner of this herd is keeping records of each cow that he owns and has the satisfaction of knowing that six out of his 15 cows earned over \$150 each.

With milk weighed every tenth day, and a composite sample tested once a month, the actual yield of each cow for her full period of lactation can be found with by: little trouble.

farmers, knowing from past experience that the corn stops when we stop, and the weeds flourish when left undisturbed, will, in spite of adverse labor conditions, this year as in past years, continue to keep the cultivation going as long as he can got the horse through. In a 42-inch row, when a single horse and short whiffle-tree is used, this may be continued for some time after the two-horse cultivation is discarded.

No. 30

With full knowledge of the great work being accomplish by our agricultural colleges and experiment stations in directing us to better methods in farming practice, I still feel that occasionally great harm has resulted from the publication without modification of the results of experiments inducing farmers to adopt new methods, which, under average farm conditions, may prove decidedly injurious and utterly at variance with results claimed for it at the station. In the particular case under discussion I feel confident that when taking reasonable care to avoid injury to roots from too deep or close cultivation, the farmer going over his corn field with a two row cultivator (one that completes two rows each time across field), even after the third cultivation, can buy more tons of valuable feed each day he travels the corn field than could be purchased with his labor expended almost anywhere else on the farm. In this case the practice of the old farmer, "who always, when out of a job, scuffled the corn whether it needed it or not," will bring us nearer the bumper crop from a clean field than the sage advice that would "help us grow more corn with less cultivation." What do you think?

In searching for new sources of revenue, politicians conduct themselves like a man who is vainly searching for an object that is right beneath his nose. What they want is a method of levying taxes in such a way that they will fall on everyone in the proportion to the benefits conferred by government. The tariff does not do that, It is a tax on consumption. It falls on the industrious worker with a large family with much greater force than on a wealthy idler with nobody but himself to support. Excise taxes are subject to the same objection. Income taxes fall equally on earned and unearned incomes, and are heavler burden on the man charged with the support of a family than on one without a family to support, who is securing the same income. The inheritance tax does not discriminate between estates acquired by the giving of useful service and those secured by legalized predatory methods. A tax on excess profits does not distinguish between progressive, useful business men and privileged trusts and monopolies. A tax on land values is placed on the one object that increase: or decreases as the government may be good bad.

July 26, 1917.



One of Ontario's Beauty Spots in the Lakes District; Gore's Landing, near Peterboro, Ont.

Farmer Jones Beats Himself Monday Morning at the Cheese Factory By NORMAN JAMES.

I^T is Monday morning, after a sultry Sunday in July. Waggons are heard in the quiet stillness of the dawn as they are hurried to the cheese factory with the milk from Saturday night and Sunday milkings.

One of the farmers is early in order that he may return to his work at this busy season. Another, being a progressive and shrewd business man, is following the teaching of experience and agricultural literature, and is out at this hour to

save his milk from the injurious effects of the hot sun. And still another is conscious of the fact that he has taken no thought to prevent nature following her course, and knows that the intense heat and thundery weather of the night have been favorable for undesirable bacterial development in the milk and consequently its spoiling. He is thoughtful now-but it is narrow-minded selfishness. He thinks that perhaps he can hoodwink the makers and his milk will be accepted and dumped into the vat with the rest. He did it last week, anyway. If he can bring that to pass he will go on his way rejoicing, and take no thought for the morrow until the following Monday when the same will be repeated. Next time, however, it may be different. The maker will be, as we say, wise to him. He will exercise more care, taking some time tasting and smelling the product, and will finally reject it as unfit for making first-class cheese. The re-

sult is obvious—three or four hundred pounds of milk will be lost, and that means five to eight dollars according to present prices. This loss, however, touches the right party, and is, therefore, not serious.

Let us consider this morning's case. Come in with me and let us watch the operations in the process of manufacture. The maker and his helpers are busy indeed, as they are made to pay up for their Sunday's rest. This vat seems to be commanding most attention, and there is a reasonf. Farmer Jones' can of milk was dumped into that vat, and the whole 7,000 lbs. have been infected with the abnormal bacteria contained in that can. Objectionable ferments have developed. The vat is "working" fast, and only with difficulty and with every precaution can the process of manufacture be controlled so as to suppress the undesirable ferments and give at best a second grade product. There is an excessive loss of fat in the whey, and in the hoops, and the quantity, as well as the quality of the finished product, is affected. The loss from one bad can of milk, then, is farreaching and widespread, and in this case no one is to blame but the farmer himself. Jones shares the loss equally with all the patrons of the factory. The maker loses in his extra work and worry in handling that curd. The company loses its reputation and the confidence of the buyer and consumer, and thereafter cannot secure as ready sales for its product. In the ond, then, the farmer has but beaten himself, and the worst of it is, his neighbor must suffer with him.

But this should not be so. Cheese is one of our most stable food products, and at present prices surely offers encouragement to even the



Buildings Typical of those Found on the Dairy Farms of Nova Scotia. This illustration is from a photo secured by an editor of Farm and Dairy near the Trown of Truto in Colchester Co., N. 8. The owner, Mr. Crowe, ia a city milk producer. The most valuable part of this, and all other farms in the district, is the dyked marsh, a rich alluvial deposit that yields aplended crowe of hay with Ettle expense.

smallest producer to supply the best and more of it. Good, clean milk is the first requisité for successful cheese-making. It can be supplied by the interested farmer who knows and is willing to practise modern methods in producing clean and cool milk, and to exercise ordinary commonsense in so doing.

Late Blight and Rot Protect Potatoes by Spraying

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I^N some years the crop of potatoes is much lessened by the late blight disease, and when

rot follows little of the crop may be left. It is, therefore, very desirable to prevent this discase from spreading. This is done by keeping the plants covered with Bordeaux mixture from about the first week in July, or before there is any sign of the disease, until September. Sometimes the first application of Bordeaux mixture is made before the potato beetles are all killed when the poison for them may be mixed with the Bordeaux. While the disease is not very bad every year it is well to be prepared. There was an average increase per year of 94 bushels of polatoes from spraying with Bordeaux mixture in three years.

The formula for Bordeaux mixture for potatoes is six pounds copper sulphate or bluestone, four pounds resulty slated line to 40 gallons of water. While the blue stone will dissolve more quickly in hot water, if it is not convenient to get this, it may be suspended over night in a cotton bag in a wooden or earthen vessel containing four or five or more gallons of water. The lime should be slaked in another vessel, and before mixing with

the copper sulphate solution should be strained through coarse sacking or a fine sleve. The copper sulphate solution is now put into a barrel, if it has not already been dissolved in one, and enough water added to half fill the barrel; the saked lime should be diluted in another barrel with enough water to make half a barrel of the lime mixture. Now pour the diluted oper sulphate solution and stir thoroughly, when it is ready for use.

The concentrated line mixture should not be mixed with the concentrated coper subpate solution, as, if this is done, an inferior mixture will result. If the barrels are kept covered so that there is no evaporation, stock solutions of the concentrated materials may be kept in separate harrels throughout the season. It is important to have the guantities of line and copper sulphate as recommended, but in order to be sure that enough

lime has been used and there is no danger of burning the foliage, let a drop of ferrocyanide of potassium solution (which can be obtained from a druggist) fail into the mixture when ready. If the latter turns reidilab-horwan, add more lime mixture until no change of color takes place.---C. E. F.

Silage can be fed to most farm animals. The following amounts have been found about right for a day's feed: Horses 10-12 hs, colts (500 lbs.) 5 hs, dairy cows 40 hs, beef cows 20 hs, stock cattle 20 hs, fattening cattle 25 hs, calves (500 hs.) 12 hs, sheep 3 hs. Silage from corn nearly matured makes the best silage. It is sweet and nutritious. Its "almost universal value is hardly yet appreciated. Even the small farmer with five or sik cows and a faw calves can afford a silo. It is an even better investment to the extensive farmer. Their number is ever increasing. It you can't build as flow calve.

July 26, 191

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which of ness world. know somethi might be a n while the shr make a sorry differing instit commerce tha with its mult The average f his product i other hands. factory on th consumer trad as it has. Fr who are their cents of the profit to then Stevens, of Gl Stevens is a of his farm, at herds as well. the consumer' ens has taken appears to be pay him a visi spring, and in agement, was because of the

Glenrae Far manville. It and I found M ping away at that time, pro without roots. fine specimen old heifer in t lbs. of milk a ing around 68 since Mr. Stev stein, but he n pure-bred cow however, are s from 18 to 20 which they are Stevens went dance of light. sanitary steel easy to keep t able. Finally, milk, the cows losis and read is taken to grade of mark on the merit o Mr. Stevens h trade

A Trade B "It is just Stevens told 1 started to ret manville. I d milk route. I town with son back of my was day succeeded quarts. Since has grown st we deliver 270 two waggons, handle all the on a neighbor explain the gr ness only on th It is practicall tles, for which nine cents a qu Although a

A Dairyman Who Retails His Own Product

The Business Methods of Mr. Robert Stevens of Durham Co., Ont.-By F. E. Ellis

THE qualifications which make a man a good farmer are essentially different from those

which ensure a man's success in the business world. Of course, a successful farmer must know something of business, but the best farmer might be a miserable failure in commercial life while the shrewd, successful business man might make a sorry fist of farming. It is from these differing instincts of the producer and the man of commerce that our present system of distribution. with its multitude of middlemen, has developed. The average farmer is content to produce and let his product reach its ultimate market through other hands. If this system were not more satisfactory on the whole than general direct-to-theconsumer trade, it would not have existed as long as it has. Frequently, however, we find farmers who are their own retailers, getting one hundred cents of the consumer's dollars and that with profit to themselves. One such is Mr. Robert Stevens, of Glenrae Farm, Bowmanville, Ont. Mr. Stevens is a dairy farmer, and all the products of his farm, and much milk and cream from other herds as well, is carried direct from the farm to the consumer's door in Bowmanville. Mr. Stevens has taken advantage of local conditions, and appears to be prospering. A suggestion that I pay him a visit, when in Durham county early this spring, and investigate his system of farm management, was acted upon all the more promptly because of the dual nature of the business.

Glenrae Farm is just on the outskirts of Bowmanville. It was milking time when I arrived. and I found Mr. Stevens in the stable busily stripping away at a big Holstein cow which was, at that time, producing 85 to 90 lbs. of milk a day without roots. She is a registered animal, and a fine specimen of the Holstein breed. A two-yearold heifer in the herd, I learned, was making 50 lbs. of milk a day, while another heifer was giving around 68 to 70 lbs. It is only three years since Mr. Stevens secured his first registered Holstein, but he now has a nice foundation herd of 13 pure-bred cows. The most of the milking herd, however, are still grades, and their number varies from 18 to 20 cows. The basement stable in which they are housed has been re-built since Mr. Stevens went into the milk business and abundance of light, good ventilation, cement floors and sanitary steel equipment make it comparatively easy to keep the cow barn sanitary and presentable. Finally, to ensure the quality of Glenrae milk, the cows are tested each year for tuberculosis and reactors discarded. Every precaution

is taken to produce a good grade of market milk, and it is on the merit of his product that Mr. Stevens has established his trade.

A Trade Built on Merit.

"It is just four years," Mr. Stevens told me, "since I first started to retail milk in Bowmanville. I did not buy out a milk route, I just went into town with some milk 'on the back of my waggon, and the first day succeeded in selling 15 ,to 18 quarts. Since then the trade has grown steadily until now we deliver 270 quarts daily with two waggons, and in addition handle all the cream produced on a neighboring farm. I can explain the growth of our business only on the basis of merit. It is practically all sold in bottles, for which we now secure nine cents a quart."

Although a retailer for only

four years Mr. Stävens has been running the farm for seventeen years. Before he assumed the management returns had been indifferent. The new proprietor immediately went into duirying. He got together as good a herd as he could afford and commenced to improve it through using good purè-bred aires, weighing the milk of individual cows at frequent intervals, finding out which ones were doing the best, discarding the boarders and breeding from his highest producers. He became a cream shipper and had already established a reputation as a successful dairyman when he decided to make the change and sell milk.

In the Milk Room.

When the milk trade began to assume important proportions, special facilities to handle it became necessary. When through milking, Mr. Stevens conducted me into the house to see his model dairy, which occupies the greater portion of the basement. There I found an aerator where the milk is cooled with water coming directly from the well, a botting machine, bottle washer, steam sterilizer and ample provision for keeping the bottled milk ice-cold. A one and one-half h. p. gasoline engine runs the bottle washer, the washing machine and a small rotary pump.

The water system is worthy of more than passing notice. The rotary pump is equipped with a swing valve, and either hard or soft water may be pumped. Water is pumped direct from the well to the aerator, and then runs to a tank in the barn. Hard or soft water may be forced into two tanks provided for them in the attic of the house. The same pipe will conduct either hard or soft water to the attic, and Mr. Stevens had arranged a couple of cords which run down through the house to the basement whereby the water can be delivered into either tank without climbing to the attic to make the change. A further device, of which Mr. Stevens was quite proud, arranges for the automatic shutting off of the pump. "At one time," said Mr. Stevens, "the tank in the attic overflowed and made a bad mess of the house. Now I have an overflow pipe running into a pail in the basement. This pail is suspended on a cord running over pulleys, and the cord in turn is attached to a long lever, which, when the pail is full, pushes the belt off the rotary pump and holds it off. We will have no more trouble with overflows in our house."

This water system makes it possible to have every modern convenience in the Stevens home, even to hot water heating.



The Corn Crop and the Silos are the Mainstay of the Stevens Farm.

The farm is as well managed as the dairy business and affords a fine example of intensive cultivation. There are only 80 acres in the home farm and an additional 20 acres are rented. On this area enough crops are grown to feed a dairy herd of 20 or more cows, a large number of young stock, and sufficient horses to work the place and run the milk waggons. "How do you do it?" I asked Mr. Stevens.

"We don't pasture at all," said he. "We have just four acres of pasture for the whole herd, so it is little more than an exercising ground. We place our main dependence on corn ensilage and feed the cows in the stable the year round. We have two slices, one 13¹, by 31 feet, and the other 12 by 31 feet. We have our own machine for filling and get maximum capacity by filling and refilling until both silos are really full."

"What is your cropping system?" was my next inquiry.

"We grow about 20 acres of corn, which afford feed enough to last us the year round. In fact, we always have some to spare. We grow 30 to '35 acres of mixed grain—oats, wheat and barley each year, and the rest of the farm is in hay. With slight variations our plan is a three year

rotation."

Mr. Stevens, it will be seen, provides all of the roughage required by his herd, and a not inconsiderable portion of the grain feed. Some concentrates are purchased. Cottonseed meal, for instance, is fed the year round, as are also bran and distillers' grains. "These concentrates are proportioned according to their market price," he explained.

His ability to carry a large stock on a farm of only average, size, Mr. Stovens attributes largely to his corn crop. A dairy farmer without a silo is a man whom he cannot understand. And on the question of types of silos, I found Mr. Stevens to have a very decided preference for the stave silo. "One of my silos is of coment, the other of staves," said he.

(Continued on page 6.)



The cows are mostly grade Holsteins, stable fed the year round, and tuberculin

tested to ensure milk that is healthy as well as clean.

825

Cuts Corn Into Dollars Saves Fuel, Labor, Time

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FARM AND DAIRY

A Dairyman Who Retails His **Own** Product (Continued from page 5.)

There is less freezing in the wooden silo and the silage comes off the walls more readily when we get a warm day in winter. I have a theory too, that the frost coming through the cemen walls heaves the silage, giving admittance to air around the edges which explains the blue mould which there is always more of less in my cement silo."

The running of the milk routes and the work of the farm calls for considerable help. Mr. Stevens, his son and two men hired by the year are the staff usually employed. And now, to the business that he already has, Mr. Stevens plans to add and develop another line. Mention has already been made of his foundation for a registered herd. A good bull is owned cooperatively with a neighbor, the present sire being out of a 107 pound ow and a son of King Segis. He was bred by Mr. A. D. Foster. From the start that he has already made, we predict good success for Mr. Stevens in his latest venture

The Call is to You

CANADA showing the sacrifice and self-denial of its men at the front? The was will soon enter upon its third year. The financial obligations of the Allies increase every It is estimated that Canada will day. nd over \$600,000,000 this year. The National Debt has been increased by half a billion. The situation is one that demands rigid exercise of economy by every man and woman in the Dominion. Without that economy the Canadian armies cannot be maintained properly. Financial mobilization imperative. By saving your money and investing in War Savings Certificates you give your dollars to the nation and help to win the war. Have you given yours? Are you in the financial line which is essential to the support of the firing line?

The U.F.A. on Conscription . THE directors of the United Farm-ers of Alberta, in session at Calgary gave their opinion of con-"Resolved, that we, the board of diectors of the United Farmers of Alperta, in executive meeting assembled, vereby affirm our belief in the prin ciple of the selective conscription of men to carry on the war, and the con-scription of wealth for the same pur-We also pledge our support to the government in an effort to intel-ligently and prudently carry into effect the conscription of men for this e, but in connection with at the same time as that effort is made, we insist that the government put into effect a systematic, just and equitable scheme of conscription of the wealth of the whole country. It must be understood, however that this scheme must embrace the conscription of the income wealth of all the men and institutions of the Do-minion. The rate at which these incomes are assessed must be increased as the income increases until a certain limitation is reached, after which the remainder of said income is to be conscripted

"We also insist that in case of lands that have been acquired and held out of productive use, such lands are to subject to equitable taxation and in cases where lands are not subject to assessment and collectable taxation. such lands are to be expropriated. with or without, at the discretion of the government, a reasonable rem neration to cover original cost of said lands, and the title thereto to revert to the the crown and become part of the public domain."



Cull the Flock

HE urgent need of cons demands that all poultry not pay ing its way in either eggs or growth be killed for eating. There are in every poultry yard birds that have outlived their usefulness and their usefulness and others that will never pay their way; these might profitably be finished and marketed, not necessarily all at once, but as soon as practicable, taking into account market conditions. In these classes might be mentioned, in the order in which they should be dis-posed of, the following:

1. Male Birds. The breed being over, all males should be flesh-ed and killed. It will cost \$2 or over to keep each male until next breeding season, therefore, get rid of them. It will also be better for the layers, the eggs and the growing chicks.

2. Turkeys and Waterfowl. Toms and turkey hens, geese and ducks. not absolutely needed for next year's breeding should be disposed of.

classes that are two years old and over might better be marketed now In even the light classes many of this age ought to go. Others that are laying but that are not worth keeping for another year should be kept until the eff yield does not pay for the feed. Better still, keep culling out those that show signs of early moulting as you go along.

olds of the lightest breeds might pay to keep all summer, but only the year olds should be kept over winter and even these will stand culling fairly closels

4. Broilers. If brollers are early it pays best to sell the cockerels when two or three pounds in weight rather than to keep till heavier. This is cially so when the sexes cannot be separated and where the runs are the pullets will soon require all the room and green feed available Light broad cockerels should be sold early; it seldom pays to feed them to

5. Roasters. Don't leave the mar keting of all roasters till late in the fall. Distribute this sale over as long a period as possible. Never market without finishing. — Experimental Farms Note.

A Dangerous Chick Disease

T the present time, when grow-ing chicks are attaining an age 4, of from one month to ten weeks, a disease (known as Coccidiosis), affecting the liver and bowels, is causing considerable losses. This disor-der, according to Dr. Wickware, of the Experimental Farm, is quite prevalent throughout Canada, and is probably responsible for many deaths at present attributed to white diarrhoea. disease is caused by a small egg-shaped germ which inhabits the first portion and blind pouches of the bowels. It produces inflammation of the bowels and liver, the blind pouches showing the most marked alteration. The changes in the latter may vary from a filling up with a reddish granu lar looking mass of soft consistency to hard cores composed of lining cells, blood, etc. The liver may show may changes varying from a fairly normal appearance to large areas of a yellow color, which, when cut into, show cheese-like centre.

Sympton The chicks appear dull and isolate

themselves from the remainder, usually remaining in the hover or under the hen. The feathers become ruffled, wings droop, appetite is lost, and occasionally the chicks will give utterance to a shrill cry, particularly when trying to pass material from the A white discharge is usually present, although it may be rather reddish in color, and the vent may become pasted with the material discharged. These are the prominent symptoms in typical cases, but chicks may also be badly affected and ex-hibit no outward appearance of disease until death suddenly takes place.

Treatment consists in dissolving 15 grains of powdered Catechu in a gal-lon of drinking water. This should be kept constantly in front of the chicks and should be changed every two days.

Prevention.

Prevention consists in the isolation of all ailing chicks from the remainder of the flock and the thorough disinfection of all the quarters and runs, which may be accomplianed by the application of a limewash solution made by adding two and one-half pounds of stone lime to a pail of water, to which is also added one-half a teacupful of a good commercial disinfectant. This should be applied full strength with a spray pump, brush or old broom, to all parts of the quarters, brooder houses, etc. The feeding troughs should be cleansed daily by scalding with boiling water, and spe-cial care taken to prevent the chicks from getting their fect either in the feeding utensils or drinking fountains, as the disease is transmitted from bird to bird in this way. The floor of the brooder houses should be covered with a coating composed of nine parts of sand and one part of air-slaked lime, and if the droppings are not re-moved daily they should at least be mixed with a fair amount of air-slaked lime to insure proper disinfection. If the runs are not too large it is also advisable to cover them with a thin coating of the above-mentioned lime and either spade or plow them up. The chicks should be kept away from all adult fowls, and carcasses of dead birds immediately burned, as burying only serves to keep the infection ing from year to year .- Experimental

Appeal to Producers

H, hens, get busy laying eggs,) keep things in steady motion: we want to ship a million kegs to allies o'er the ocean. In times peace one egg a day we all considered plenty, but in these times of stress and fray you ought to turn out twenty. The hen that will not do her best, can't have me as her backer; loyalty is in her breast, she is a tinhorn slacker. So, Brahma, Lezhorn Plymouth Rock, Minorea, Scrub and Dorking, lay eggs, lay eggs, all round the clock, and make a record corking! You should be, in the country's plight, its staunchest friends and boosters. Lay eggs, lay eggs, by day and night! Quit filrting with the roosters! Oh, cows! "The grass is fine as silk." hear you glibly mutter, and you should out tubs of milk and fifty kinds of butter. In times of peace we didn't care of you went dry or balky, but that shrapnel fills the air, such now conduct is too rocky. We've kept your stomachs, boyine band, with most expensive grub full, and now that milk is in demand, you ought to give a tub ful. Speed up, speed up, if you would save the land from ruin utter! Don't like a bunch of steers behave, but turn out milk and butter.—Wait Mason

July 26, 1

Seasonabl

By E. S. An

HE mar strong and sy prices for n undor btedly for any othe This fact ism, should

bend every total product Under pre cost feed and maintaining

hy an increas unit of labor The three production cost of labo feeds and the

ing stock of The labor met hy the such labor-se machines, lit self-feeders f more impro handling of and at the ba

Every farm feed as poss quality of fee quantity. cured and st to 50 per cer foods of lows sary to purch: buy only the operatively a ally mid-sums prices are lov

Breeding s exceedingly demand at hi surest and ch ing a herd of is the use of sires. The go half the herd whether pure nearly all the ter animals w the unpr meat prices a

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No dairy fa out owing to p feed prices. be scarce and ing years. If labor is s

good milking cient and suce dled. Cows ta without injury labor of milki extra hand on for milking, m

Why waste cows giving le milk per year cow are usuall as feed costs, a poor as for th

Two grade I Experimental I as follows:

10 common cow 11 grade Holstein

Feeds were ch 35 cents a at 20 cents a equally well fe chance has th make a profit Keeping record each cow is th tecting the poo

Farms Note.

3. Hens. All hens of the heavier

The best of the one and two-year-

Seasonable Hints on Live Stock

By E. S. Archibald, Dominion Animal Husbandman.

T HE markets have never been so strong as at present for dairy and swine products, and the

prices for many years to come will undor-btedly be relatively higher than for a ly other farm-grown product. This fact alone, askide from natrict.

This fact alone, aside from patriotism, should induce every farmer to bend every effort towards increasing total production.

Under present conditions of highcost feed and labor the only means of maintaining or increasing profits is by an increased output of the farm per unit of labor employed.

The three great hindrances to greater production are scarcity and high cost of labor, the high price of all feeds and the lack of sufficient breeding stock of proper type and quality.

The labor problem may be largely met by the more extensive use of such labor-avaving devices as milking machines, litter carriers, home-made self-feedors for grain, and larger and more improved machinery in the handling of crops both in the fields and at the barns.

Every farmer should raise as much feed as possible on bis farm. The quality of feeds is as important as the quantity. Farmsrown feeds, well cured and stored, are worth from 25 to 50 per cent. more per pound than feeds of lower quality. If it is necessary to purchase grains and mill feeds, buy only the best quality and buy cooperatively at wholesale prices; usually mid-summer is the season when prices are lowest.

Breading stock of high quality is exceedingly carce, and is in pract demand at high prices. The safest, surrest and cheapest method of acquiring a herd of good quality individuals is the use of good quarbered breading sizes. The good size is more than onehalf the herd, and the poor size, whether pure-bred or grade, may be nearly all the herd. Fewer and better animals will make greater profits over feed. This is the time to weed out the unprofitable female, while meat prices are high.

Dairy Cattle.

No dairy farmer can afford to sell out owing to present labor shortage or feed prices. Good breeding stock will be scarce and more expensive in coming years. If labor is scarce, install one of the

If labor is scarce, install one of the good miking macines. They are efficient and successful if properly handied. Cows take to them readily and without injury. At least half the labor of miking is saved. Often the extra hand on the farm, kept largely for miking, may be dispensed with.

Why wasts feed and labor on poor cows giving less than 5,000 pounds of milk per year? Labor charges per cow are usually at least half as much as feed costs, and are as great for the poor as for the good cows.

Two grade herds on the Dominion Experimental Farms in 1916 produced as follows:

		milk.	ent	feed.	eed.
		Libs. 1	Per o	Cost	Profit
ŀ	common cows.	6,912	4.0	\$52.18	\$56.41

Feeds were charged at cost, butter at 35 cents a pound, and skim milk at 20 cents a cwt. Rolh herds were equally well fed and managed. What chance has the 4,000-pound cow to make a profit over feed and labor? Keeping records of milk and feed for each cow is the only method of deteeting the poor producer. What do your cows produce in milk and profits over feed?

Keep up the milk flow this summer. The low-producing cow is a sure loser at present labor and feed prices.

Supplement the poor dried pastures with ensitings if available or fresh-cut green feed such as oats, pens and oats or clover. These feeds keep up the milk flow and save the meal. The annual pasture if already provided, may be more profitable than soiling crops under present labor conditions. Feed grain when pastures are short, thus holding up the milk flow until the good fail pastures are available. This is profitable even at present grain prices.

The protection of the mileh cow from the intense heat and flies will mean many dollars saved. A shady pasture or the housing of the cows during the day and the use of good fly repellants are profitable.

Wayside Gleanings

The Pasture Mixture

I SUPPOSE, like many others, we are trying for the first time the pasture mixture advocated so strongly by the O. A. College and from present indications it is not likely to be disappointing. We have not followed instructions fully, however, as §2.50 wheat seemed rather expensive for this purpose and we just sowed barley and oats, one and a half bushels per acre of each.

It is now six inches high and very thick upon the ground, hence it gives promise of much feed. We have not suffered much for pasture this year as the growth has been good, yet, we feel safe in having this six acres to retreat upon if hot dry weather prevails the next two months.

Shall I Cut the Alfalfa

This is the question facing us just now and our mind asks another. It is, why? The answer to which is because our neighbor has cut his. He claims that if left longer it does not make as good a [cod, yet since cutting his it has received a good wetting in the swath.

Old authorities tell us that it should not be cut until it begins to shoot out from the bottom and we find no sign of such growth as yet, but we don't like to be behind the other fellow. Will some friend or the deltor please advise so as we will know for next year.

Speaking of the alfalfa we can tell of an acreable surprise in its favor. We have one field or part of a field about six acree that has a field or for five or six years and this superlooked very bad. It accound to be its and in patches. We were advised to plow it up and one man strongly recommended cultivating the ground and sowing barley among it. Our judgment in consideration of certain conditions that could not be changed was to leave it alone. It stands today a fine thick errow of the less in a pearance and bid borhood. We would be about the stand or this when dealing

that when dealing group it pays not to be too have wonder if this can be applied to the harvesting of it also.

Work horses are often sick on Monday. Investigation of such cases has usually brought out the fact that the horse has been fed as much grain on Sunday when at rest as when at hard work. Reducing the grain feed onefourth on days the horse does not work prevents this sickness, known as azoturia.



The easiest gas engine to operate and care for

THE farmer wants an engine that is simple and reliable, that will do what he wants it to do without constant tinkering and adjustment.

He gets such an engine when he buys an Alpha. The Alpha is a thoroughly practical engine. It is designed and built to do its work day in and day out under the varying conditions it is called upon to meet on the farm. It is dependable at all times.

The trouble-making features found in many so-called "farm" engines have been avoided in the Alpha. It contains no delicate electric batteries, but starts and runs on a simple low-speed magneto, guaranteed for "se life of the engine.

The same idea of simplicity and durability has been carried out all through the Alpha. Every part is designed to do its work with little or no attention and to stand up under hard work.

One big feature of the Alpha is its low fuel consumption. Whether you are using gasoline, alcohol or kerosene, the Alpha is a fuel saver.

Write to-day for our large illustrated engine catalogue, which shows you every detail of the ALPHA and explains just why you get more for your money in it than in any other engine.

Alpha Gas Engines are made in eleven sizes, 2 to 28 H. P., and each size is furni.hed in stationary, semi-portable, or portable style, with hopper or tank cooled cylinder

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MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

SYDNEY BASIC SLAG

You have been reading our advertisements recently and unless we have caused you to think, we have been spending our money in vain. Whether you are a user of fertilizer or not, we want our Salesman, who is an agricultural expert, to have a talk with you. If you are already using fertilizers you know their value, and all we want to say is, that Sidney Basic Slag costs twenty dollars per ton, and will grow a bumper erop of wheat. Doubtless you are paying considerably more money. Surely, therefore, it is worth while investigating the merits of Sydney Basic Slag. If you are not using fertilizers now is the time to start, and Sydney Basic Slag is what you should use.

SEND US YOUR NAME AND ADDRESS. THE CROSS FERTILIZER CO. Limited SYDNEY, NOVA SCOTIA

(7)

Warm and Dairn

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"Read not to contradict and to contute, nor to believe and take for granted, but to weigh and con-sider."-Bacon.

Daylight Saving

C OME weeks ago Sir George Foster introduced in the House of Commons a Daylight Sav-. ings Bill. It still stands on the order papers at Ottawa, but so far no attempt has been made to enact it into law. We suspect that our Ottawa representatives have heard rumblings of disapproval from the rural districts. However popular such a measure might be in the cities of Canada the man on the land will have none of it and its enactment into legislation would be only an additional source of friction between farmers and their hired help. The summer tasks-killing weeds and garnering the crops-can best be accomplished with the laboring day arranged as it is. Weeds are killed when the sun is hot, and to move the clock ahead an hour would lose two good hours for weed killing out of the day. Haying and harvesting operations cannot start in the morning until the dew is off and are continued until the dew is again falling. Here, again, the day arranged according to Nature's plan, as we now have it, fits in nicely with the requirements of farm work. But if the factory whistle in town blows at five o'clock, natural time, the laborer in the fields will not be content to work till six.

But why should such legislation as has been introduced at Ottawa be necessary? If city people desire a longer evening of daylight for pleasure and recreation, why not get up an hour earlier in the morning, go to work an hour earlier and quit an hour earlier at night. Some weeks ago the staff of Farm and Dairy decided on such a daylight saving scheme of their own. The majority proving agreeable the office hours were changed, the morning was lengthened, the afternoon shortened, and daylight saving accomplished

without any change in the clock or any incor venience to any other class whose business is more dependent on weather conditions than our own. The same course is open to all city firms. The chief advantage of a national regulation such as is proposed by Sir George Foster, is that it would fool people into believing that they were not rising any earlier in the mornings than has been their practice in the past. Getting out in the morning is such a hardship to many people.

The Eradication of Tuberculosis UBERCULOSIS among cattle and hogs is be-

coming increasingly common in Canada. Returns from our packing houses, which are subject to Government inspection, report an almost alarming increase in the percentage of diseased hogs and to a lesser extent of cattle also. Dairy cattle, because of the greater strain of milk production, and the more artificial conditions of housing and feeding, are probably more subject to the disease than are beef animals. And herein lies the greatest menace of the disease-bovine tuberculosis is commanicable to children, and perhaps in lesser degree to adults also, through the consumption of raw milk, of which children consume the most. Statistics are not available, probably could not be secured with any degree of accuracy, as to the percentage of human tubercular cases that are due to bovine infection, but it is sufficiently large to cause health officiais serious concern. As a result of the awakening of public opinion to the seriousness of this source of infec tion new and more drastic regulations regarding bovine tuberculosis may be expected in Canada, and dairy farmers who cater to the city trade may as well prepare for the inevitable crusade against infected herds. And when the dairyman begins to inquire as to ways and means of fighting the tubercular scourge in his herd he will find but little official leading.

Much has been written on bovine tuberculosis and published in bulletin form. At the present time, however, we know of no bulletin, available to all the farmers of Canada, that deals in plain and easily understood language with the control of the disease. Such a bulletin is urgently needed and its distribution should be wide. When it is written this bulletin should be thoroughly practical. It should deal with the problem that faces the average farmer; not the extensive dairy specialist. For instance, the Bang system of isolation, commonly recommended, calls for two sets of buildings and separate attendants and equipment for each. The system cannot be applied to the average farm with just one set of buildings, and perhaps only one man to care for the cattle. Again, it might not be practicable to slaughter all reactors. Can the disease be held in control by isolating or discarding the cows that plate tests show to be spreaders? Or, would it be more desirable to eliminate only those cows showing clinical symptoms and pasteurize all milk, cream and dairy by-products? These are live problems, and in their solution the dairy farmer, so far, has received but little aid. A good bulletin, gotten out by a veterinary authority with a knowledge of farm conditions, is urgently needed.

The Real Tubercular Problem HILE bovine tuberculosis is one well

proven source of human tuberculosis, and without any desire to minimize the importance of eliminating this source of infection so far as is possible, Farm and Dairy would point out to city health officials, who show so much concern over the health of our dairy herds, that the complete eradication of bovine tuberculosis would not reduce the ravages of the "great white plague" to any appreciable extent. In fact, bovine infection is one of the least important of all the causes of human tuberculosis. Unnatural methods of living, long hours of work in poorly ventilated shops and factories, overcrowdings in tenements, child labor and a general disregard of the most elementary principles of sanitation are all more important causes of tuberculosis than the much abused dairy cow. But of these factors in the situation we hear little, although they constitute the real tubercular problem.

The problem, in its final solution, is an economic one. Just so long as the few wax wealthy at the expense of the many, will working people he forced to live under conditions that make the suppression of tuberculosis an impossibility. People do not live in close, unhealthy tenements from choice any more than they send their children to work when mere infants because it is their pleasure to do so. The tubercular problem involves the much greater question of social progress, and this the faddists, who are ever ready to talk about the menace of bovine tuberculosis, would do well to remember. Right at the outset milk from tubercular free herds involves a higher price for milk, and this working people, in normal times at least, and a large proportion of them in these days of high wages, are not in a position to pay.

A Silo for the Renter

THE far-sighted landlord will erect a silo for his tenant who desires to keep dairy cows and grow corn. He will be money in pocket to do so. Occasionally, however, we fink tenants who must erect their own silos if they are to have sllos at all. Fortunately there is a plan of sllo construction whereby a tenant farmer can have his own silo and move it from farm to farm almost as readily as he moves his other farm equin ent. This type of silo has been popularized under the name of the "Missouri" silo. It is becoming common in the corn belt states the United States, where the majority of th mers are tenants. Its construction is so that any man may be his own silo builder If he has the time.

The Missouri silo is constructed of one-inch pine flooring, tongued and grooved. The hoops are of half-inch elm, four inches wide, four-ply thick at the base, three-ply at the centre, and only two-ply at the top. In constructing the silo, first build the hoops. Draw a circle with chalk on the barn floor of the same diameter as the proposed silo. Spike to the floor on the inside of the circle wooden blocks three or four inches thick. Bend the strips of elm around these blocks widely overlapping all joints, and nail securely together. One hoop will be necessary for every two feet of height. Erect four temporary posts around the silo site, nail the hoops in their proper places to these posts, and then nail the flooring to the inside of the hoops, using copper nails, as ordinary iron nails would soon be eaten out by the action of the ensilage acids. A circular cement foundation may be constructed, but many tenant farmers simply dig a trench six inches deep, and set the butt of the staves in it. When the silo must be moved it can be readily knocked down and erected on another farm, or, if a small one, it can be braced inside, tilted over onto a waggon and moved in its entirety. All that is necessary is a written agreement with the landlord permitting the removal of the silo at the termination of the lease, and, in the Missouri silo, the tenant can enjoy all the advantages of corn ensilage. If the staves and hoops are creosoted or painted such a silo will last for years, and its cost is but a fraction of that of the more permanent structures.

Standardization of potato varieties has been decided upon by the Ontario Department of Agriculture. Early Eurekas and Irish Cobblers are recommended for early varieties, and Green Mountain, Empire State and Dooley for the main crop. Ontarlo farmers please take note of these varieties which are to be made standard for the province.

Juty 26, 191

The Hors

N hot weath given speci when sweat fast. If the h a real warm liberal supply morning till' i evening is a water on a rea carried to th watered in the but especially will be in bet work and the work and the be affected by ing will also h condition to n hot weather it frequent breat to injure the that its capao for weeks.

The Horse

T HE very has been manufact few years has farmers to th to take the p horses on o breeding of h increased we years, face a will place hor average farm our field oper extent

Wm. Hender buyer of Illing have a place deny, for near of farms now which can be baling hay, fil falfa, and for er purposes. oftentimes is parts of the fa o have a pow hut those who is destined to able portion o needed in fiel they have mis and not a few for their experi

Keep th

AINS duri G colt's life feeding and en cost even mor

The colt sho eat a little gra any inclination begin to eat wh or six weeks o parts of crushe a nice feed. O will clean up i is not well to filled. Some fi be fed to adva given at a tim Following hi

when she is a of the colt's en in a dark bar during the day exercise at ni weeks he shot about the midd each afternoon way, the colt four or five mo ing the mothe losing the colt-on his back to first winter.

Every colt ought to return ment.

The Horse in Hot Weather

N hot weather the horse should be given special attention. The horse when sweating is using up water fast. If the horse is worked hard on a real warm day it should have a liberal supply of good water. From morning till' noon and from noon till evening is a long time to go without water on a real hot day, for the horse as well as for man. If water can be carried to the field and the horses watered in the forenoon and afternoon but especially in the afternoon, they will be in better condition to do goo work and they will be less likely to be affected by the heat. Care in feeding will also keep the horse in better condition to resist the heat. In real hot weather it pays to give the horse frequent breathing spells as it is easy to injure the horse on a hot day so that its capacity for work is reduced for weeks

The Horse Still Indispensable

THE very heavy advertising which has been done by our tractor manufacturers during the past few years has led a large number of farmers to think that the tractor is to take the place of the majority of horses on our farms. Unless the breeding of horses is continued and increased we shall, within four or five years, face a horse shortage which will place horse power beyond the average farmer's reach, and curtail our field operations to a remarkable extent

Wm. Henderson, a prominent horse buyer of Illinois says, "That tractors have a place on our farms I do not , for nearly all of our best types of farms now require a power unit which can be used for grinding grain, baling hay, filling silos, grinding al-falfa, and for various other belt power purposes. Inasmuch as the work oftentimes is done upon different parts of the farm, it is an advantage to have a power unit in tractor form, but those who believe that the tractor but those who believe that the tractor is destined to displace any consider-able portion of the horses actually needed in field work will find that they have misjudged the situation, and not a few of them will pay dearly for their experience .--- T. E. L.

Keep the Colt Growing

AINS during the first year of the colt's life are cheaper than at any other time. Attention to L feeding and exercise may reduce the cost even more than usual.

cost even more than usual. The coil should be encouraged to eat a little grain as soon as he shows any inclination for it. Usually he will begin to eat when he is about a month or six weeks old. A mixture of equal parts of crushed oats and bran makes and on the should be and bran makes a nice feed. Only as much as the colt will clean up nicely should be fed. It is not well to try to keep the troughs filled Some fresh skimmilk may also be fed to advantage if only a little is given at a time.

Following his mother in the field when she is at work takes too much of the colt's energy. He is better off in a dark barn away from the flies during the day, if he is turned out to exercise at night. For the first six weeks he should be allowed to suck about the middle of each morning and each afternoon. If handled in this way, the colt may be weaned when four or five months old without missing, the mother's milk and without losing the colt-fat, that should be kept on his back to carry him through the first winter.

Every colt of good draft breeding ought to return a good profit if fed so as to make the maximum development

FARM AND DAIRY

A Warning to **Cow Owners**

The weeks are slipping by. Summer is here, and fall soon will be. If you have not yet made plans for a silo we urge you, in the name of

hard, practical common sense, to do so without further delay. This is no time to waste food or waste money. The man who owns

cows and does not own a silo is doing both.

He is spending 15 or 20 per cent. more for feed than he needs to, and is getting 25 per cent. less milk than he could.

Every farm paper on the continent has been urging its readers to put up silos this year. It is common knowledge among successful dairymen that no other equipment is so necessary to the cow-owner.



(9)

Sector Long Towner (1991) MADE IN CANADA

Don't let another winter catch you without an **IDEAL GREEN FEED SILO**

Make your plans right now to have one ready to receive your crop this fall.

A good silo is the best investment any cow-owner can make, and there are definite reasons why the Ideal is the best silo to buy.

These reasons are fully explained, in our silo catalogue. Sit down and write for this catalogue now, before you forget it. There is little time to waste. Freight conditions make silo shipments uncertain, and you will avoid the possibility of delay and inconvenience by ordering your silo now.

THE DE LAVAL COMPANY, Limited

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA. Sele manufacturers in Canada of the famous De Laval Cream Separators and Ideal Green Feed Silos. Alpha Gas Engines, Alpha Churms and Butterworkers. Catalogues of any of our lines upon request. MONTREAL 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

PETERBORO WINNIPEG VANCOUVER

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Sixty years as successful educators, with many of her sons and daughter: occupying prominent positions in pulpits and in various activities of our national life, is the brilliant re cord of

COLLEGE BELLEVILLE **ONTARIO**

The different classes which Work, in-The different classes which embrace Collegiate Work, in-cluding Fourth Form and Faculty, Literature, Music-Piano, Vocal, Organ and Violin-Expression, Art, Theology and Disclose Column Physical Culture, are under the supervision of thoroughly com-petent instructors.

Recognizing the demand for bookkeepers and stenographers, a trained accountant has been secured for our Commercial Department.

Fall term commences September 10th

Write for Calendar, stating UCRE desired. Established

E. N. BAKER, M.A., D.D., Principal.



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(10)

July 26, 1917.

Alleged Profits of the William Davies Company in 1916 on Bacon, as Indicated by Department of Labor to be Five Cents per Pound, Untrue:

Actual Profits Two-Thirds of a Cent Per Pound

T HE statement issued by the Department of Labor concerning the business of The William Davies Company Limited has been given widespread circulation throughout the country and provoked public unrest.

Whatever the technical wording of the report was, the effect has been that the newspapers have published that "the profits on Baeon alone" of this Company "for 1916" were about "five millions of dollars." This interpretation of the official report is not surprising in view of certain statements that the Commissioner of the Cost of Living makes. The Commissioner is reported as saying that "There were two individual cases of profitering in 1916 and that had these cases occurred since the passage of the cost of living Order-in-Council, he would consider it his duty to recommend that the facts be laid before the Attorney-Gen-

eral for consideration as to their criminality." The situation created by such erroneous and damaging statements is serious as emanating from a Government official, from whom one looks for not only accurate statements but correct conclusions.

The William Davies Company, being a private concern, has followed the practice of all private corporations, except when it made a bond issue in 1911, in that it has not published reports of its assets and linkulities or profit and loss. The present circumstance, however, in which a Government Official has led the public to false conclusions, makes it advisable for this Company, for both the public interest and its own interest, to publish particulars of its business as well as point out the error of the statement of the Government Official

For the last flacal year ending March 27th, 1917, The William Davies Company bought and killed 1.043,000 head of Live Stock (Cattle, Hogs and Sheeh). This, plus purchases of outside Meata, produced 160,000,000 pounds of Meata. The Company handled 6,550,000 pounds of Butter and Cheese, 5,550,000 dozenis of Liggs, and manufacture 25,500,000 time of Canned Goods.

The net profils on these were .68 cents (or two-thirds of a cent) per pound on meats, 1.04 cents on Butter and Cheere, 1.04 cents per dorsen on Eggs, and .47 cents (or slightly less than one-half a cent) per tin on Canned Goods. There profits include profits on all By-Products derived from these accounts.

During the year the Company served at its retail stores 7,500,000 customers, the average purchase of each customer was 35c, and the net profit on each sale was 5-8 of 1 cent.

The turnover of the Company from all its operations for the fiscal year ending March 27th, 1917, was \$40,000,000. The net percentage of profit upon this turnover, after deducting war tax, was 1.69 per cent, or including war tax 3.45 per cent.

. The William Davies Company has assets of \$13,385,000,- of which \$3,865,000 is tied up in fixed investments.

To provide the necessary facilities for the increased volume of business the Company expended \$750,000 in buildings and equipment during the year.

Companies of other character present no more reasonable statement of profit and loss based upon the investments made in the business.

The William Davies Company offered to the Imperial authorities, as well, as to the War Office Service (which represents the Imperial authorities in Canada) to place the output of its Factory with respect to Hacon supplies, Canned Heef apd Pork and Beans at the service of the authorities, on the basis of cost plus an agreed percentage. These offers were successively doclined as the authorities evidently desired to purchase in the open market, and on this basis The Willham Davies Company has secured War Office business by open competition with tho world.

Respecting the Report of the Commissioner on the Cost of Living :----

Last Winter the Comminisioner, under authors ity of Orderin-Council, required packers io, submit statistic-council, required packers io, submit statistic under oath for some yara back and up to December 1st, 1916, of incoming stocks of Masts and the cost of such, as well as statistic the outpack packet and welling value. This Company represented in writing at the time that the information as specifically required was not in accordance with Facking House Accounting methods, and Invited the Commissioner to send an Officer to the blad Office of the Company to examine the books for any information desired, and to secure a viewpoint as to the best way of colsecting data which would be of use to the Goy-

ermment. This offer was declined, and there was nothing to do but full in the information required as literally as we could determine it. For example, there was no recognition of the fact that a raw product may enter a factory under a specific classification and lazve the factory as a finished product under some other classification.

We submitted a series of accurate figures based upon our interpretation of the official requirements which made no provision for charges of any description other than incoming freight and unioading charges to be included in the cost or to be deducted from the selling price. There was nothing in the report which could be read so as to determine a profit and loss statament, The very faut that with only a statament backd upon could of raw products and value of eakles in Great Brilan & Government Official has desired "Large margins." "Profileering" and "Criminality" if it had occurred shoe the passage of a recent Act, shows to dangerous a triling and incapacity to be permitted to deal with any important situaion. The statements of this Company have been treated by the author of this report as if the outgoing product, and from the series of reincoming product, and from the series of renorating the has singled out two items-the Bacon and Eggr reports-and from them deduced an July

FARM AND DAIRY

(Continued from preceding page)

scroneous "margin" which the newspapers have interpreted as "profit." The author of the inquiry shows a strange lack of even a fundamental knowledge of simple bookkeeping and a dangerous inability to co-ordinate fagures. The following are specific and outstanding errors in the report:

The principal item that is causing excitement deals with cold storage Bacon. The term "cold-storage" is not defined, and the public is allowed to make its own definitions. As all Bacon in a packing house is under refrigeration it is really all cold-storage, and therefore this Company's figures of cold-storage Bacon represent the complete quantity of Bacon handled in its entire Plant, whether in freezers or in process of cure for immediate shipment. That some Companies interpreted cold-storage product as "freezer" product only is evidenced by the smallness or entire lack of figures, on the Bacon list for some Plants, indicating that many firms did not submit statements of their complete stocks, as did this Company. An official of this Company pointed out this cold-storage distinction to Mr. O'Connor and Miss McKenna in Ottawa a few weeks ago, and the failure to make the distinction after hav-ing had it pointed out evidences lack of desire for accuracy of the real information desired.

It is true The William Davies Company, in 1916, experded \$7731.000 permits of Bacon, but we do not know how the margin of Socons as there were no figures to justify such a conclusion. The probabilities are that the margin is arrived at by taking the average cost per pound of hecoming product from the average selling price per pound of outgoing product. This may be a rouch way of estimating the gross margin when dealing with small flyures, but when dealing with fugures the side that Mr. O'Combor has to deal with, a very small fraction of a center per pound of error makes a very important difference to the total, and one musk be careful to make sure that the outgoing product is the same finished merchandise of the incoming product reported on. Allowing it to pass, however, as a rough esti-

ate, we wish to point out-(first)-the inquiry of the Commissioner allowed only for incoming freight and unloading charges, and made no provision whatsoever for operating charges of any kind, such as labor, curing materials, reration, et cetera. Such actual charges on the 97,791,000 pounds exported were \$1,162,000 or 1.2 cents per pound. This amount covered all charges up to the point of placing the Bacon on cars f.o.b. packing-house. In addition to was the actual cost to land and sell this 97,791,000 pounds in England after leaving the packing house, which involved charges of 2.9 cents per pound-or \$2,836 000. This 2.9 cents per pound included inland and ocean freight, landing charges, war and marine insuran cables, and selling commission to agents. The ean freight and war risk alone would make up 2.4 cents of the charge of 2.9 con's per pound. This 1.2 cents, plus 2.9 cents-a total of 4.1 cents-must be deducted from Mr. O'Conno margin of 5.05 cents per pound, leaving a mar-gin of .95 cents, or slightly less than a cent per pound, which still has to be reduced because of the error of premises and because of further factors which have to be considered to determine net profits.

It is quite evident some of the other packers did not show selling values in the country in which the cools were sold—a proceeding quito proper, as the forms submitted to be filled in were indefinite and ambiguous, thus permitting without charge of evasion a variety of interpretation as to the information required. It is thus possible that of all the fluxnes submitted by the different packers that no two sets of cosis and sales prices are determined at the cosis and sale prices are determined that terpretables of what was required that are counts for the different companies. Commo conclusions, however, have been drawn by the author of the report from varying bases of premises.

The figures of the Egg business were submitted on the same basis as Bacon, and similar deductions must be made.

(Second)-The above margin is further reduced in that the author of this inquiry singled out the Bacon figures as an item in which the selling price shows an alleged improper advance over cost, but he did not give us credit for the statements of other products, of which figures were submitted, the selling prices of which were under cost. The reason of this was that through failure to inquire the Department entirely overlooked the fact that product may come in as pork and, through the process of manufacture, go out as Bacon, or, in another instance, enter the factory as beef and go out in the form of canned meats; for example: much of the product which came as pork, and which was entered on the pork sheet submitted to the Commissioner—about which he makes no mention—was cured and left the factory in the form of Bacon, and was therefore, entered on the outgoing side of the Bacon sheet— the result is that the Bacon sales are increased by this amount over the incoming stocks of Bacon, and, likewise, the sheet show ing sales of pork is reduced by the amount that went out in the form of Bacon. If the Depart-ment takes one set of figures that show favorable to the company they should take another set of figures that show unfavorable, as the principle in either case is the same, and failure to do so looks as if the author of the reporwas exercising more enthusiasm than sound judgment in his investigations

(Third)--ft is queried in the report, that 'if the margin of 3.47 cents' millered to have have made in 1915. "was satisfactory, why was its necessary to show increased margin in 1916." Assuming again for the moment the noundness of the premises in asking acute a question based on an erromeous "margin," it will be found that increased ocean freight rates and was risk insurance in 1916, of which apparently the author of the report was in ignorance.

The Company does not challenge either the legal or moral right of the Government to investigate business enterprises when public interest directs such an investigation should be made. If an investigation of the packing and meat business is ordered, the Company will place at the disposal of the Government not only the data it would be required to supply under Order-in-Courel directing that inquiry be made, but will place the experience of its efficers at the disposal of the investigation entry of the data it would be required to Company has not now-nor at any time during the fifty years of its operation—anything to conceal in method or practice of carrying on its business. It does, however, claim the right to conduct its export business without abusive comment from Government civil servants —especially when the conclusions drawn from the data saked for are improper and false.

One of Canada's chief export industries is the packing business. It is essential to the live stock industry, and along with other export industries, it much industries call stability of this country and should, provide the finanabuse. In view of the publicity given to the report of the Commissioner on the cost of living, the Company demands the same publicity in avaira an oficial Government investigation of this report to determine the fruthfulness or untruthfulness of its conclusions. We do not seek public consideration as a company, but we do say that untruthol official statements, or natements the effect of which all official statements, or natements the effect of which is to create an untruth, adversely affect the live stock industry of this country, which is so valuable and essential a wealth-producing power and, in the long run, are harmfal to the very people that the statement seeks to benefit.

"If the passing that the statement sees to behalt." The passing that the statement of a coporation such as the William bayies Consistence of a coporation such as the William bayies consistence of the present means the state outsit to be consummated without delay. The fast of the matter is, however, that with millions of people in Europe turning from producers into consumers because of war, and the tremendous destruction of food products incident to war, there is no remedy for the high prices of food while such conditions last, except the remedy of thrift and increase of production. Long before there was talk of a Food Controller in the

Long before there was talk of a Food Controller in the United States or Canada The William Davies Company urged the Government at Ottawa, in writing, to appoint a Food Controller with full power to do what he ease fit, as we realized at that time the upward tendency in the price of food commodifies unless checked by official effort. At the mean great deal cannot be done in reducing food prices of all kinds of composition at unit the scale of prices of all kinds of composition at unit the scale of wish to point out that nothing at all can be secompliabed unless the data secured are accurately and clearly made and the deductions therefrom sound. Only public harm arises from dangerous incompetency in the hapharard collection and carcless use of important fayres.

The William Davies Company, Limited

As far as The William Davies Company Is concerned this terminates all public statements of the Company, and it will pay no more attention to speculative and haphazard statements made either by newspapers or civil servants. The only further statement that will be made will be at an official investigation.

Toronto, July 17th, 1917.

(11)



WINDNESS is wisdom; there is none in life but needs it and may l arrow -Bailey.

Winning the Wilderness (Continued from last week.)

"D ley that they are a secret or-der of fanatics bent on stamping out all Christianity and all west-ern ideas of advancement inthe Orient. Things begin to look ugly in China, even from this distance. When band of religious fanatics like the Boxers go on the warpath, their atrocities make a Cheyenne raid or Kiowa massacre look like a football game. I hope Pryor will not be in their line of march." "Pryor Gaines'd better stayed right

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here. It's what's likely to happen to a man who goes missionarying too far, and we could 'a used him here.

It was an unusual concession for Darley Champers to make regarding the church, and Asher looked keenly at him

"Say, Aydelot," Champers said sud-denly, "you have more influence with John Jacobs 'n anybody else, I know. If you see the Jew, pass it on to him that Wyker's at his old cut-ups again that Wyker's at his old cut-ups again over in Wykerton, and he's danged bit-ter against Jacobs. I can help him on the side like I did before, but the Jaw's got hold of enough over there now to run things, with ownin' land all round and holdin' mortgages on town proper-ing that hear holds out of form I. the about more ages on town proper-ty just to keep joints out of 'em. I do no end of business for Jacobs now. Never had dealin's with a straighter man. But he'd better look out for Wyker. The Dutchman's insides is bated Wyker. The Dutchman's insides is all green with polson, he's hated Jacobs so many years." "I guess John will make it hard on

him if they come to blows again. The jail sentence and fine Jacobs fastened on him let Wyker down easy. John Jacobs is one of the state's big men." Asher responded.

"We lost another big man when we et Doc Carey go," Champers went on. "I used to set up nights and rest my-self hatin' him. He done the biggest missionary work in me the two weeks I stayed at his house ever was done for a benighted heathen, I hated to see him go." The sadness of the tone im go." The sadness of the tone genuine. "But I mustn't be n' round here all the mornin'; hangin 've got other things to do. Hope you boy'll keep a-goin' till his term's out. Goodday!" And Champers was gone. "Till his term's out!" Asher repeat-ed with a smile. "Wouldn't that six-

ed with a smile. "Wouldn't that six-footer of a soldier boy, whose patriot-ism burns like a furnace, see the joke to that! Till he gets his stripes off and forgets the lock-step! My Thaine, who is giving a young man's strength of body and inspiration of soul to his of body and inspiration of soul to his country's service! But Carey did do a missionary work in Champers. The fellow was crocked enough 'inside the law always,' as he said, but no more out of line than scores of reputable means men are to-day. And the but of line than scores of reputable business men are today. And the fact that he's Jacobs' agent now meas-ures the degree of trustworthiness Carey has helped to waken in him." Darley Champers' business took him

RYOR Gaines writes Jim Shir-ley that they are a secret or Ranch, where he found Leigh Shirley training the young vines up the trellis by the west porch.

"You got a mighty pretty place here; just looks like Jim Shirley Champers declared as he greeted the young gardener

"Yes, Uncle Jim is never so happy as when he is puttering about the lawn and garden," Leigh answered.

"How's your alfalfa doin'?" Cham-pers asked as he turned toward the level stretch of rich green alfalfa



blue eyes was grateful to the uncul-tured man before her.

"Miss Shirley, I ain't wantin' to meddle none, but I come down here to ask you if you know anything about your father?

Leigh gave a start and stared at her questioner, but her woman's instinct told her that only kindly purpose lay back of his question.

He had sat down on the edge of the porch and Leigh stood leaning against the trellis, clutching the narrow slats, as she looked at him.

"I think he is dead," she answered He was a bad man, made bad not by blood but by selfishness. The Shirleys are a fine family."

"Excuse me for sayin' it, Miss, but you took every good trait of that fam-ily, an' Nature jest shied every bad trait as far from you as it took the sins of our old savage Anglo-Saxon ancestors off of our heads; them that used kill an' eat their neighborin' tribes, like the Filipinos, they was. a Tank, Your grandma's name was Tank, I've been told." Don't

Leigh made no response, but something in her face and in the poise of her figure bespoke the truth of Darley Champers' words.

"I jest come down to tell you," h continued, "that the man I represented when I sold you this quarter, he represented your father. Shirley, Tank and Tank got it through this man away from Jim out of pure hate. I



A Strawberry Patch in Durham Co., Ont., which yielded over 4,000 boxes of berries in 1916

fields. "Danged money-maker for he added jovially. you.

"We'll clear the place with the first cutting this year. It's just the thing for Uncle Jim," Leigh asserted. for

"Yep, Jim's in clover-alfalfa, ruther. You had a good business head when you run your bluff some years ago, an' you wan't only nineteen then. You walked into my place an' jest bought that land on sheer bluff." Champers laughed uproariously, but

"Miss Shirley," he said gravely, "I ain't got much style nor sentiment in my makin's, but I've honestly tried to be humane by widders an' orphans. I've done men to keep 'em from doin' me, or jest 'cause they was danged easy, but I never wronged no woman, not even my wife, who divorced me years ago back East 'cause I wouldn't turn my old mother out o' doors, but kep' her and provided for her long as she lived."

Nobody in Kansas had ever heard barley Champers mention his home relations before. Leigh looked at him gravely, and the sympathy in her deep

sold it back to ycu out of pure spite to Tank's agent, who was naggin' me, If your father is dead, there'd ought to be somethin' comin' back, as the money you paid for the land would help you some if we could get it back came as a friend. I'm kinder in Doc I came as a friend. I'm kinder in Doc Carey's shoes while he's gone, you see. You've got the land as good as paid for. It will be clear, you say, by June. Buyin' it of your own father, there's any estate left of him, you'd ought to have it. Money's always a handy commodity, an' I'd like to see you git what's your'n after your plucky bluff and winnin'. You could use it, I reckon?

"We need it very much," Leigh asured him.

"Say, would you mind tellin' me if you find out anything about your father's whereabouts or anything?"

Champers queried. "Yes, I will," Leigh replied, "but will you tell me what you know about him; you must know something?".

It was Champers' turn to start now "N-not much; not as much as I'm goin' to know, and it's not for my profit, neither. I don't make money out of women's needs. I never made a cent on this sale to you, but it was worth it to get to do that agent once," Champers declared. Leigh waited quietly,

Leign waited quietly. "Til be in better shape inside of two days to tell you something definite. I wish Carey was here. Do you know where he got the money he loaned "I never asked him," Leigh an-

swered.

"He borrowed it of Miss Jane Aydelot of Cloverdale, Ohio."

Champers did not mean to be brutal. Champers did not mean to be bruta, but the sharp cry of pain and the look of anguish on Leigh Shirley's face told how grievous was the wound his words had made.

"Why, you paid it all back; she ain't lost nothin'. Besides, I heard with my own ears folks sayin' she'd always loved you and it was a pity Jim ever took you away from her. She might a done well by you, they said. You got no wrong due. Lord knows you've paid it conscientiously enough," Darley Champers insisted.

"Mr. Champers, will you be sure to tell me all you know as soon as pos-sible? Meantime, I'll try to find out something to tell you."

"I sure will. Goodday to you." When Champers rose to leave, Leigh put out her hand to him, and the keign put out her hand to him, and the winning smile that made all Grass River folk love her as they loved her uncle Jim now touched the best spot in the heart of the man before her.

"God knows it's a lot better to do for folks than to do 'em, and in the end I believe you prosper more at it. My business, except the infernal boom days, never was so good as it's been since I had that time with Carey, and since I had that time with Carey, and it's all clean business, too, not a smirch on it. Wish I could forget a few things I've did, though." So Dar-ley Champers thought, as he drove up the old Grass River trail in the glory of the April morning.

That morning, Leigh Shirley wrote a long letter to Jane Aydelot of Clover-dale, Ohio. Leigh had written many letters to her before, but never one with a plea like this. Miss Jane had mentally grown up with Leigh and had built many a romance about her, which was only hinted at in the letters she received.

In the letter of this morning, Leigh begged for all the information Miss Jane could give concerning her father, and further, she pleaded boldly for the reconciliation of the Aydelot family, a thing she had never written of before. Five days later her letter came back "unclaimed" with a brief statement from the Cloverdale postmaster that Miss Jane Aydelot had passed away on the day the letter was written, much beloved, etc.

John Jacobs had no need to warned by Asher Aydelot of F Wyker's doings. He knew all be Hans Wyker's doings. He knew all of Wyker's movements through Rosie Gimpke, Jacobs had been kind to Rosie Rosie, whose bare, loveless life knew few kindnesses, and she harbored the memory of a good deed the memory of a good deed as her grandfather harbored his hatred. Moreover, the Wyker joint had played havoc with the Gimpke family. Her father had died from a fall received in a drunken brawl there. Two brothers, too drunk to know hetter, had driven into Little Wolf in a spring flood and been drowned. A sister had married a drinking man who ter had married a drinking mah who regularly beat her in his regular sprees. For a heavy-footed, heavy-brained, fat German girl, Rosie Gimpke could get into action with surprising alacrity for the safety of one who had shown her a kindness.

And it was Rosie Gimpke, whom John Jacobs called the Wykerton C. T. U., who swiftly put the word to

July defying public

Unfo served overtak vulge dire ev about 1 urged t rand, a ticket f dishes

The b Hans a ward h was col loaded ference an outs rows co

dish of This brought Jacobs ranch th where h easy acc Wyker I sage als Little W scary lit the Cim Hans W ing the was told

had been Champer own, hur the first All thi Darley (to the spring w to summ often ha On the 1 till late black sto

over the the restr lands to storms u fury on tending e basin dra ed with a his offlice day. His chair, 1 der the

his big b front doo afternoon showing wide oper might wa Darley body's pr dreamed

above his

ly his ey to see Th the rear of between a

Champe "It's to Smith sa Champers "You're Thomas Every ma on him, to

poverty. the face crooked s far the e of power. "I got and you w Smith ber "Yes, I mediately "Why d

defying the law and menacing the is it because I got full here once and beat you up a bit over in Wyker's place?" Smith asked smoothly but nublic welfare

Unfortunately, the messenger who served Rosie in this emergency was overtaken by Hans and forced to OVPR. vulge his mission, threatened with dire evils if he said a word to Rosie to see to and I hurried to ,it, so I wouldn't miss you this afternoon," Champers declared. "What do you about Hans having halted him, and urged to go with all haste on his errand, and to be sure of the reward, a want now?" ticket to the coming circus and tw "Money, and I'm going to have it," Smith declared. dishes of ice cream from the Wyker eating house, as per Rosie 's promise coolly.

The boy hastened from the grinning Hans and did his errand, and afterward held his peace, so far as Rosie was concerned. But he studidy unloaded his message and Hans' interference and threats to John Jacobs as an outsider whom the Wyker family rows could not touch, and had another dish of Ice cream at Jacobs' expense

This messenger was able for he brought the word to Rosie that John Jacobs would come to his Little Wolf ranch the next day and late in the over. ig drop into Wykerton unexpectedly, where he knew Rosie would give him easy access to the "blind tiger" of the Wyker House. The boy carried a mes-sage also to Darley Champers to meet bs at the top of the hill above Little Wolf where the trail with the scary little twist wound down by the opening to the creek, beyond which the Gimpke home was hidden. Then Hans Wyker, with threats of withholding the circus ticket and the ice cream, was told both messages just as they had been given to him for Rosie and Champers. Hans, for reasons of his own, hurrled out of Wykerton and took first train to Kansas City. the

All this happened on the day that Darley Champers had made his trip to the Cloverdale Ranch. The fine spring weather of the morning leaped to summer heat in the afternoon. 3.5 often happens in the plains country. On the next day the heat continued till late in the afternoon a vicious black storm cloud swirled suddenly up over the edge of the horizon, defyi the restraining call of the three headlands to theer off to the south, storms usually sheered, and burst in fury on the Grass River Valley, extending east and north until the whole basin drained by Big Wolf was threshed with a cyclone's anger.

Darley Champers sat half asleep in his offlice on the afternoon of this day. His coat and yest were flung on chair, his collar was on the floor under the desk, his sleeves were rolled above his elbows. The heat affected his big bulky frame grievously. The front door was closed to keep out the afternoon glare, but the rear door. showing the roomy/back yard, was wide open, letting in whatever cool air might wander that way.

Darley was half conscious of som body's presence as he dozed. He dreamed a minute or two, then sudden-He ly his eyes snapped open just in time to see Thomas Smith entering through the rear doorway. "How do you do?" The voice was

between a whine and a snarl

Champers stared and said nothing. "It's too hot to be comfortable." Smith said, seating himself opposite Champers, "but you're looking well." "You're not." Champers thought.

Thomas Smith was not looking well. Every mark of the down-hill road was on him, to the last and surest mark of poverty. The hang-dog expression of the face with its close-set eyes and crooked scar above them showed how far the evil life had robbed the man of power.

"I got in here yesterday morning, and you went out of town right away," the last time they were together, and he nearly broke his brother's arm Smith began. off_

"Yes, I seen you, and left im-mediately," Champers replied. "Why do you dodge me? Is it be-cause you know I can throw you? Or

out.

with something cruel leaping up in his

"I didn't dodge you. I had business

"You go get it for me, and go quick," Smith responded. "Tm in a bad fix, I needn't tell you. I've got to

have money; it's what I live for." "I believe you. It's all you ever did

I've for, and it's brought you where it'll bring any man danged soon enough who lives for it that way,"

"Since when did you join the Young

Men's Christian Association?" Smith

"Since day before yesterday." In spite of himself, Darley Champers

felt his face flush deeply. He had just

responded to a solicitation from that

organization, assuring the solicitors

that he "done it as a business man

and not that he was any prayer meet-in' exhorter, but the dollars was all

"I thought so," Smith went on,

"Well, briefly, you have a good many

things to keep covered, you know, and,

likewise, so have your friends, the Shirleys. The girl paid about all the mortgage on that ranch, I find."

Darley Champers threw up his big

"Don't bring her name in here," he

"Oh, are you soft that way?" The

sneer in the allusion was contemptible

"All the better; you will get me some money right away. Why, I haven't let

be glad to do it now. Let me show you

He paused a moment and the two

looked steadily at each other, each seeming sure of his ground.

"You will go to these Shirleys Smith continued, all the hate of years

ou'll arrange that they mortgage up

again right away, and you bring me

the money. They can easy get three

thousand on that ranch now, it's so

well set to alfalfa. Nothing else will

"And if I don't go?" Darley Cham-

"Oh, you'll go. You don't want this

Y.M.C.A. crowd to know all I can tell.

No, you don't. And Jim Shirley and that girl Leigh don't want me to pub-

brother, Tank. It might be hard on both o 'em. Oh, I've got you all there.

You can't get away from me and think because I'm hard up I have lost my

grip on you. I'll never do that. I can

disgrace you all so Grass River wouldn't wash your names clean again. So run along. You and the

Shirleys will do as I say. You don't dare not to. And this pretty Leigh,

fond of, she can work herself to skin

and bone to pay off another mortgage

to help Jim. Poor fellow can't work

ber when he got started wrong in his

lungs back in Ohio when he was a boy. He blamed Tank for shutting

him out in the cold one night, or some

thing like it. That give him his start, He always blamed Tank for every-

"Oh, shut up," Champers snapped

(To be Continued.)

Why, he and Tank had a fight

like most men, big as he is. I remem

such a gross old creature as you are

lish all I know about the father

making the name bitter to him.

you favor me in a long time.

cleaner'n a millionaire's, anyhow.'

Champers asserted.

asked blandly.

hand

demanded savagely.

exactly how."

do but just that."

pers asked.

thing.

THE UPWARD LOOK

The Thief on the Cross

HE other answering rebuked him. saying: "This man hath done nothing amiss." Luke 23: 40-41. Did it ever occur to you that the incident of the thief on the cross gives us one of the noblest examples of faith in the whole Bible? He believed "Go get it, then!" Champers said the face of his previous unbelief and opposition, because just a little time before, he, with the other thief, reviled Jesus and cast insults in His

teeth The thief believed when those that Jesus loved and who had such close should have believed, deserted Him, just when He needed them most. He elieved when he had the least possible grounds for doing so, when the object of his trust and veneration was being treated like himself and worse: was being subjected to all manner of insults and indignities: was suffering the cruellest tortures.

The thief believed and expressed his faith and belief at that moment, when Christ's soul was alone in this world and suffering the keenest of mental anguish. Can we form any concep tion of what that consolation must have meant to Jesus at that time?

He was the first to get a true con eption of Christ's mission on earth Those with whom He lived and work and talked most had not understood They had not relinquished the idea of an earthly supremacy and pow-So when Christ paid the supreme sacrifice they were horrified and terrified and fled, deserting Him. But this malefactor on the cross, to whom Christ was probably a stranger, was the first to recognize Christ's mission on earth as one of self-sacrifice and service for others. He was the first to pay tribute to Christ as his spiritual heavenly sovereign: "Lord, member me when Thou comest into Thy kingdom."-I. H. N.

Add to Life of Heating Plant

N damp climates the deterioration of a furnace is more rapid in summer when not in use than it is in winter, unless it has been properly cleaned after fire is no longer needed. says A. Cammack of the Colorado Agricultural College. Even in a climate as dry as is usual in Colorado the deterioration may be considerable and should be guarded against by thorough cleaning at this time of year

A11 soot and ash-covered surfaces should be gone over with a scraper or brush and cleaned thoroughly. This would include the smoke and fire passages in the furnace, the chimney connections, and the lower part of the chimney. The chimney connec-tions are usually made of sheet iron which rusts out easily and will last much longer if cleaned thoroughly and put in a dry place, the chimney opening being closed with a plate. By eping the furnace doors open and if necessary using a little unslacked lime in a bucket or box set in the bowl of the furnace, after cleaning, all deterioration may be prevented and the furnace will be in good shape for firing up when the first cold snap comes in the fall.

"What do you suppose has come over my husband this morning, Sophia," exclaimed a conscientious little bride to the new servant. "I never saw him start downtown so happy. He's whistling like a bird!"

"I'm afraid I'm to blame, mum. I got the packages mixed this morning and gave him birdseed instead of his regular breakfast food, mum."



you wish within twenty years. In certain areas, land for sale without settlement conditions. In irrigation

districts, loan for farm buildings, etc. up to \$2000, also repayable in twenty

years—interest only 6 per cent. Here is your opportunity to increase your

farm holdings by getting adjoining land, or to secure your friends as neighbors. For literature and par-

heighbors. For interature and par-ticulars apply to Allan Cameron, General Superintendent of Lands, Department of Natural Resources, 916 First Street East, Calgary, Alta.

833

(13)

Dependable Spark Plugs **Developed for McLaughlin Motors**

834

(14)

bled

This particular Champion was developed especially for McLaughlin-Buick Motors.

tor McLaughlin-Buick Motors. A charged expectantly (Changing It has the special Buick terminal and an extension base that Braces the spark exactly where it is needed to insure that greatest efficiency in the performance of your McLaughlin Motor.

The patented asbestos lined copper gaskets in all Champions completely absorb the terrific strain of cylinder explosions under all conditions of driving.

This exclusive feature accounts for their absolute dependabi-lity. You can get "Champion" for any motor, gas engine or tractor at supply dealers everywhere.

Back of each Champion Spark Flug is the unconditional guarantee of "Complete satisfaction to the user-Free repair-Replacement or money Back."

Champion Spark Plug Co. of Canada, Limited Windsor, Ontario

Look for "Champion" on the porcelain and be certain



More Corn Money-Less Work

FROM every corn field two crops can be harvested—one of grain and one of hay. The usual practice is to harvest the grain only, and waste the hay. The value of the wasted hay (stover) is estimated at an average of \$200 a year for every upon now. Eighty tons of good palatable rouging blowing away or orting on almost every 40 accre field ginge blowing much to waste this year with hay prices where the is too much to waste this year with hay prices where the is do the saving the too of good palatable rouging to waste. This is some the folder which is now going to waste, the other, a bine, the folder which is now going to waste. Cutting the to save of time and money. The doing the hard work, and ress a day with a tractor or horses doing the hard work, and the git the express and the trouble of getting corn and harvest help, the corn binder is certainly a machine worth having. ROM every corn field two crops can be

of getting corn and harvest only, the corn binder is certainly a machine worth having. Write the nearest branch house for catalogues and get in your order now for a McCormick Corn Bindeg so that you can pocket your share of the corn-crop saving.



The Canning of Individual Vegetables

Household Science Department, Macdonald College, Quebec

FTER one is acquainted with the partially seal and cook for 60 thin-general principles involved in utes. Remove kettle from fire, etc. the canning of vegetables it is Corn.

Choose those which are firm, tipe and colored to the stem. Grade for uniformity of size. Use any that are bruised or blemished for cutting up and cooking in an open kettle, after discarding all blemished parts. When discarding all blemished parts. When cooked strain and reheat ready to fill up jars. Scald the remaining ones by dipping in boiling water, cold dip and Pack carefully in jars either whole, in halves or quarters, taking care of the appearance of the finished care of the appearance of the nuished jar. If packing whole do not crush or spoil shape of fruit. Fill the jar up with strained tomato juice and add one teaspoonful of salt to each quart jar. Put on sterilized rubber and top. jar. Put on sterilized rubber and top. Adjust upper clamp or partially seal screw top. Place jars in boiler or ket-tel and boil gently for 20 minutes af-ter the boiling point is reached. Reter the boiling point is reached. Re-move kettle from fire, allowing it to remain covered form and the state er. Remove ever, when states has escaped put down alwheat states screw the top tishtly before the state jars out of the boller. Invert so the jars out of the boller. Invert is alwed to always have a state of the out of the boller. Invert is table unit cool. Wash, label, and put in a cool dark place. If any juice is bif over it can be examed for song in left over it can be canned for soup in the same manner

Green Peas.

Pick before too mature, wash care Pick before too mature, wash care-fully before podding. Pod and place in a cheesecidth regulation of the linanch by putting in the molillar water and allowing it to rommolillar water and allowing it to rommolillar water and allowing it to rommoli and in the fore minutes. Cold dip and the shows they are not good). Pack the shows they are not good). Pack they are not good. The shows and one tenspoonful of sait to good quart jar and fill with boiling water Now adjust sterilized rubber and top. Now adjust sterilized rubber and top. in the boiler and boil gently place in the boller and boll gently for 40 minutes after the bolling point has been reached. Remove kettle from fire and proceed as with toma-

Beets.

Select young tender beets about select young tender beets about three-quarters of an inch in diameter, not over one and a half inches in diameter, if you wish to have the choice flavor. Wash thoroughly and choice flavor. Wash thoroughly and cut off tops, leaving about three inches of stem. Place in wire basket and blanch for ten minutes. Cold dip and blanch for ten minutes. Cold dip and peel. Now pack in the jars, add-ing one teappoon of sait to each quart jar, fill the jar with being water. Adjust rubber, top, and put down top clamp. Place in holier and cook 60 minutes? Remove kettle from cook 60 minutes? fire and proceed as with tomatoes.

Beans

Wash thoroughly in cold water, re-move strings, blanch for five minutes and cold dip. Cut or pack in jars whole. Add one teaspoonful of salt whole. Add one teaspoonful or sait to each quart jar and fill jar with boil-ing water. Put on rubber and cover, partially seal and put in the boiler. Cook for 90 minutes. Remove kettle from fire, etc.

Spinach and Other Greens

July 26, 1917.

A general principles time cauning of vegetables it is still measury, especially for the parding the treatment of individual vegetables. Tomatees. Select well-developed ears of corn just ready to come out of the milk just ready to come out of the milk state. Use only sweet corn, and can sa quickly as possible acter pulling. Husk and carofully remove all alik Husk and carofully remove all alik hores. Blanch 10 minutes, cold dip avore each row of kernels with a score each yow of kernels with a sharp knife and press out corn from kernels. Fill cans, packing lightly, add one teaspoonful of salt to each and one teaspoonful of salt to each quart jar and fill jar up with boiling water. Adjust rubber, cover, seal par-tially, and cook for three hours or 150 minutes. Remove kettle from fire

With a little trouble much delicious food may thus be saved which would otherwise be wasted.

Canning Without Sugar

HE following quotation relative to canning without sugar is taken from a circular written by J. S. Coldwell, by-products specialist of the Washington Agricultural Experiment Station

Many housewives are apparently un-aware that practically all fruits may aware that practically all fruits may be successfully canned without the use of sugar. Such fruit preserves more of the natural appearance and flavor than does fruit put up in heavy sugar syrup, is fully as palatable, and much more easily digested, is in bet-ter condition for use in cooking, and to evaliable to all east and the subis available for all purposes for which is available for all purposes for which fruit canned in syrup could be used. A heavy sugar syrup aids in a slight degree in preventing the growth of yeasts and bacteria which cause spoilage, but perfect sterilization makes its use unnecessary.

"Fruits may be canned without the use of sugar by any method which the housewife is accustomed to use."

Among the Up-to-Date People "Subscriber."

"I S the farm car a good invest-ment?" I would say yes, as I consider the car is part of the quipment of the up-to-date farm. has put the farmer in reach of the larger markets. It has helped build

Bright markets, it has helped build up the country stores which are a benefit to the farmer which are a keeper knows, with a construction of the or city and improves his stork we cordingly. I also consider the car as great convenience to zet repairs for machinery when needed, as help is scarce and time, especially in hay-ing and harvest, means money. The car is also something for the

ing and harvest, means money. The car is also something for the farmer's family and makes traveling pleasant. It makes possible once in a while a much needed and much ap-preciated day of rest and recreation otherwise out of the question. It not

otherwise out of the question. It not only saves the horse the long, hard trips, but also leaves him in better condition to do his work on the farm. You will see by the photo the farm aris a Ford, which has given appendent did satisfaction. We have had it did satisfaction. three years and the expense of up-keep has been very small. When good judgment is used in driving and cool judgment is used in driving and ordinary care, such as you would give any piece of farm matery, you will have good satisfaction out of a car. There are quite a number of differ-ent makes of cars used in our neigh-borhood and all seem to be very sat-isfactory. I would advise the farmer without a car to buy one and be one of the up-lodate people. It will one and the you bleasure.

July 2

Mani

HE show the kitel Agricultu The dr an excell of this h 281/2 feet lines, and been take The wide front, top and broad hou this which wil The scr 35 feet, is an outdo living ar

signed ro tionable 1 so often the firepla room on t inside de for wraps.

The pa feet by 7 sion being and a sms the draini comes uni their place The kit

layout is ventilated in the lig sink and The wood shown clo might pre order t



THE accompanying illustrations T show a perspective view of the first and second floor plana and the kitchen layout of the Manitoba Agricultural College "Farm House

The drawing of the exterior gives an excellent idea of the appearance of this house. Of moderate size. of this house. Of moderate size, 28½ feet by 35 feet, it has simple lines, and does not appear as if it had been taken from a row of city hour The wide verandah across the entire front, together with the low walls and broad stretches of roof, will give house a massive appearance which will belie its actual size.

The screened verandah, 10 feet by 35 feet, is large enough to serve as 35 left, is large enough to serve an an outdoor living room. Opening directly off the verandah is the living and drawing-room (13 feet by 22 feet 6 inches), a well-de-signed room, free from the objectionable multiplicity of doors which so often take up nearly all the wall space. Opposite the outside door is the fireplace with built-in seats, book case and buffet. At either end of the room on the fireplace side are the two inside doors, one opening into the pass-pantry, and the other into a small hall, off which is a handy closet for wraps.

The pass-pantry, though small (4 feet by 7 feet), is convenient, provi-sion being made for a dumb walter, and a small door communicating with the draining board of the sink over comes unnecessary carrying of dishes and other utensils from the kitchen to their places in the pantry.

The kitchen, of which an enlarged layout is shown, is well lighted, and ventilated by two windows in opposite corners. The range is placed directly in the light of one window, and the sink and draining board are just across the doorway from the other. The wood-box and range-boiler are shown close to the range-built are might prefer their positions reversed in order that the fuel might be re-



plenished from the back porch. other feature of this kitchen is the built-in refrigerator, which is iced from the outside

The remainder of the ground floor is given over to two bedrooms, a bathroom and the stairs. The stair bathroom and the stairs. The stair to the second storey is between the bedrooms, the space beneath the steps and half landing being utilized for two closets. This is a somewhat novel arrangement, as there is no loss of space above these closets, as is usually the case. The cellar stair is hetween the kitchen and bathroom opentween the kitchen and bathroom open-ing off the passage from the kitchen to the hall. A grade entrance to these stairs is also provided, making a very convenient cellar stair.

The second storey consists of two

MANITONA AGRICVLTVIAL COLLEGE FARM HOUSE "B" Sail Are 7814 + 355 Summi Anal And Loss Menter Million Menute star, ma PLAN OF FILST FLODE Gannita FLAN OF SECOND FLODS

large bedrooms, a bathroom, store room under the eaves, and two sleep-ing porches, which are a part of the building and could be used as regular bedrooms if desired. They communi-cate with the two large bedrooms and would make room for harvest or other

Working drawings, showing the front and two side elevations, sectional elevations, exterior and interior details (7 sheets, 14 inches by 24 inches), together with specifications and a bill of material, can be had by writing the Department of Agricul-tural Engineering, Manitoba Agricultural college, Winnipes. This ma-terial is sold at a nominal price, with no intention of securing a profit, but to cover the cost of reproduction of individual copies. The cost to appliindividual copies. The cost to appli-cants residing in Manitoba is \$3, and for those residing elsewhere \$5. Ap-plicants when sending for this material should allow plenty of time for the setting out of copies of the speci-fications and bill of material.

First, I tried cutting across the grain but that did not seem just right. How out that us how to seem just right How-ever, I was there to find out, and I found out several things. I never realized what a "rough rider" was, Ull I navigated a disc. I was tacking back and forth on a side hill, and it seemed to me the thing shifted ballast very easily. On the starboard tack (that is with the sheets to starboard. and port side to the weather, to ex-plain the situation to a landsman) the plain the stuaton to a landsman) the craft would almost capsize, but did much better on the port tack. Once the thing struck a hole in the ground, took a plunge, and while I was slitting up in the air, patiently waiting for the seat to come back to where it left me, it changed its plans and came up else-where; with the result that I went overboard.

Then I tried driving on the furrows This was easier and much more effec-tive. But there was such a thing as overdoing it. I did not want the sod to come up, I preferred it to stay green under. Each trip left a drill



Clean to handle. Sold by all Drug-gists, Grocers and General Stores.



It is evidence that you are an up-to-date dairy farmer when you say you read Farm and Dairy regularly.

FARM AND DAIRY

spring

wide

FARM CHATS H. Percy Blanchard, Hants Co., N.S.

Stunte

H. Percy Blanchard, Hants Co., N.S. NE of the directions in the auto-O mobile book for the new auto is: don't start out doing stunts. Since I began to farm, or live on the

farm, I have been moving up from grade to grade. First, I could go after grade to grade. First, I could go after the cows, collect the mflk and separ-ate it. Later, I could carry fertilizer in a bucket and sow it in the drill.

So I hitched up the auto-disc.

.15)

where the centre piled in the earth But I found that on the next trip by an overlap I could just eatch that drill with the outer disc, and lay it down nicely. But where the stunts came in was in filling up the washed out dead furrows. Here the very fault of the machine served a purpose, and by working up to the furrow and then straddling it, the furrow was filled beautifully. The strips of sod were a beautifully. The strips of soot wcre a puzzle. However, it is wonderful how the central discs will cut by riding with the middle space just a few inches to right of the sod. The ma-chine plowed the green strips to how Lorgest describe how Lorgest I won't describe how I crossed the field with an "acme," and finished with a spike tooth pretty well sheared back, but when finally the roller went on the oat field part, I was satisfied with the job.

(16)

Now, what appeals to me is the fact that one can often get as much enjoyment out of a chore or job, as out of a sport if he puts into the task the elements of a sport.

It is the essence of many games to excel. It is poor ball when one can walk his bases. In plowing, the sport-ing element is 'oo turn a furrow straight, clean and even. When the job in hand becomes a work of art, the joy of the artist in his accomplishment is his added reward. It is this doing stunts which helps to lift the labor above the plane of drudgery, and makes it a sport. There is noth-ing so small and simple but that in it one may excel.

OSHAWA The value of your home is judged most often by the index of the second s Made in Two Styles Itaw

HORTICULTURE

T HE Dominion Canners have come to their senses at last

to their senses at last and have voluntarily increased the convoluntarily increased the con-tract price of tomatoes this season from 30 to 35 cents a bushel. There is but https profit in it for the grow-ers at the advanced figure, and how they ever expected people to grow for them at 30 cents under present conditions masses once insected at the second conditions masses once insected at the second second conditions masses once insected at the second second conditions the second seco conditions passes one's imagination. A real living price would be 40 cents, when one considers the tremendous when one considers the tremendous advance in labor and materials of all kinds that the growers have to pay. In consideration of these facts it is a positive farce the way some of the newspapers headline this as "Generous action on the part of the Canners."

Protection of Potato Tops

T is very important to prevent the T is very important to prevent the tops of potatoes from being eaten by insects, particularly by the plorado Potato Beetle. The old Colorado Potato Colorado Potato Beetle. The old "bugs" do not do much harm to the foliage, as a rule, and usually the plants are not sprayed to destroy these, although the fewer there are to lay eggs the less difficulty there will be in destroying the young ones. These begin to eat rapidly soon after hatching, and close watch should be kept so that the vines may be sprayed before much harm is done. Paris before much marm is done. Yars green kills more rapidly than arsen-ate of lead, but does not adhere so well, and in rainy weather it is desir-able to have something that will stay on the leaves so that they will be protected until it stops raining and thus prevent the tops being eaten.

At the Central Experimental Farm a mixture of Paris green and arsenate of lead is used in the proportion of eight ounces of Paris green, one and one-half pounds paste arsenate of lead (or 12 ounces dry arsenate of lead) to 40 gallons of water in order to get the advantage of both poisons. It may be that it is not convenient to get both polsons when either 12 ounces o Paris green or three pounds paste ar of senate of lead (or one and one-half pounds dry arsenate of lead) to 40 gal-lons water could be used, or in smaller quantities, say one ounce Paris green to three gallons or three and one-half ounces paste arsenate of lead or half that quantity of dry to three gallons of water.

An experiment conducted for six years at the Ontario Agricultural Colyears at the Obtario Agricultural Con-lege, Guelph, showed that, on the average, where the tops were sprayed to kill "bugs," the yield was 186.9 bushels per acre, while when the tops were not sprayed and allowed to be eaten, the yield was only 98.2 bushels per acre. It is desirable not to stop with one spraying which usually does not kill all the bugs but to spray sev-eral times, if necessary, so that as little follage as possible is eaten.

New Type of Plowing Match

A^T a recent meeting of the direc-tors of the County of Peterboro' Plowmen's Association, arrangea new kind of plowing match, which it is proposed to hold this year. Owing to the fact that many farmers do not find it convenient to attend and take part in the county match each year, and because also a considerable number of plowmen, who might like to compete, feel backward about doing so for fear they might not make a good enough showing, the proposal was made some time ago that prizes might be offered for the best plowing done on the farms of competitors. In

all \$50 will be offered in prizes, divid-ed as follows:-\$15, \$12, \$10, \$8, \$5, Competitors will have to plow five acres of land or upward on their own farm and have the work completed by October 15th next, and ready for the

land to be examined by the judges. Would Bar Diseased Cattle

RITISH COLUMBIA alone of all B the provinces of Canada, requires cattle, imported into the pro-vince, ao be free from tuberculosis. Cattle men of Alberta desire that simcattle men of Arberta desire that sim-ilar legislation be adopted for their province, which they fear, may be-come a dumping ground for diseased cattle. At a meeting of the Alberta Cattle Breeders' Association recently, the following resolution was passed unanimously, "That in view of the opinion expressed by the Minister of Agriculture for the Dominion of Can-ada and on account of the province of Alberta, adjoining the province of British Columbia, and for the protec-tion of the caftle breeders' of Alberta, we deem it advisable that legislation similar to that enacted by the pro-vince of British Columbia with respect to tuberculosis in cattle be enacted by the legislature of the province of Al-berta."

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holstein-Frieslan Association are readers of the Paper, Members of the Association sel invited to send items of inter-sel invited to send items of inter-leation in this column.

SEMI-OFFICIAL RECORDS OF HOL-STEIN-FRIESIAN COWS.

From June 1st to June 30th, 1917. Mature Class.

 Mature Class

 4. Φισκ βοκζη Μακά (1960, 5γε; 1960, 5γε)

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 τ. Τατα Κοκλη Κοκά (1960, 5γε)

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 τ. Τατα Καραζο Καρ

Four-Year Class.

Bonheur Queen Mercena, 20830, 4y. 196d.: 17687 Ibz. milk, 671 ibz. fat. 838.75 ibz. butter. Hospital for Insane, Selkirk, Man.

Man. 2. Clara Bell Posch, 18558, 4y. 3524.; 16599 kbs. milk, 567 lbs. fat, 708.75 lbs. butter. Hospital for Insane, Seikirk, butter. Hospitas I.M. Man. 3. Jense Keyes Velstra, 17652, 4y. 36 12692 ibs. milk, 419 ibs. fat, 533.76 butter. E. Terrill, Wooler, Ont.

Three-Year Class.

Corruccioni Siyita Baeta, 20112, 3y.
 Boidzi 13558 Ba. mälk, 441 Ba. fat, 551.25
 Ba. butter. L. F. Bogart.
 Lady Korndyka Pieterije, 22958, 3y.
 Byddzi 1437 Ba. mälk, 457 Dia fat, 537.56
 By Butter, G. E. White, Lacombe, Alta.
 Bogan Backer Queen, 7564, 3y. 162, 105.
 Butter, L. F. Bogart.

Two-Year Class.

 Two-Year Class.

 1. Maddine Dora DeKO, 31652, 2y, 1194; 11748 Bon milk, 465 Bon fait, 47240

 1. Maddine, 11740 Bon milk, 465 Bon fait, 47240

 2. Orran, Jung, 11740 Bon milk, 460 Bon fait, 460 Bon Bon Bon, 1144, 460 Bon fait, 460 Bon Fait, 460 Bon Milk, 461 Bon fait, 462 Bon fait, 472 Bon fait, 1284, 128

Hamilton. 5. Aaggie Lestrange of Hickory, 28887, 2y. 64d.; 18919 lbs. milk, 388 lbs. fat.

July 26, 1917.

485.50 lbs. butter. Hospital for Insana,

Hamilton. 6. Queen's Pride 2nd, 31704, 27. 104d.1 8993 Ibs. milk. 381 ibs. fat, 451.28 ibs. but-ter. C. E. Burrill, Brantford. 7. B. C. Choice Laiu Posch, 29314, 27. 154d. 2825 Ibs. milk. 324 ibs. fat, 465.00 Ibs butter. F. J. Bishop, Duncan's Sta-ten B. C.

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS

OFFICIAL RECORDS OF HOLSTEIN-RELEASD COMPANY
 OFFICIAL SCORES OF HOLSTEIN-THE SCORE SCO

Ont. 12. Princess Vessnan DoKol, 20204, 6y, 1m. 8d.; 634.2 Bs. milk, 14,11 Bs. fat, 17.44 Bs. butter. Benjamin Holdby, Glan-13. Bolle Abhno Inka, 1323, 8y, 2m, 6d.; 434.4 Ibs. milk, 14,66 Bs. fat, 172 fat, butter. R. W. E. Burnaby, Jefferson, Ont.

Ont. 14. Madam Posch Pauline, 10291; 300-13ay record, 8y. 5m. 9d.; 24,489.7 lbs. milk, 801.44 lbs. fat, 1061.83 lbs. butter. Colony Junior Four-Year Class.

Junior Four-Year Class. 1. Korndyke Segls Hartog, 29627, 4y. 0m. 7d.; 586.2 fbs. milk, 24.70 lbs. fat, 30.87 lbs. butter. 30-day record: 2669.6 lbs. milk, 100.01 fbs. fat, 126.02 lbs. but-ter. Benjamin R. Leavens, Bloomfield,

Tenjamin R. Leavens, Boomfield, Ott.
 Colory Beasle Charary, 2608, ey. Ben, Beasle Charary, 2608, ey. Beasle Charary, 2608, ey. Beasle Charary, 2608, ey. Beasle Charary, 2608, ey. Beasle Characteristic Characteristics and the sense of the s

July 26

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M then ance in p as uniform ture cont with butte more stro our cream to hold th kets, they out a unife

It does i skill on th to turn of from day and persis daily work product is must not b the butter should kno churn, for will not k color to pu day. Gues needful re butter fron

There m the method from day to maker can mental wor If he finds out a good should be may be all stances as cream.

Some of ing that a district coo whose duty creameries them produ butter throu a certain á for a definit means, cool would be po in this distr Markets a

to products fairly large

Dairy E

AIRY showin cheese toge hundred per a year ago. of butter an creamery bi mark, dairy year; this wear the creamer of the Dairy Pearson, Pr Edmonton, w

In the clas stilton shape F. J. Broph; gary Centra C. G. Conne third. For h third. the Edmont Calgary Cent Hepworth an third. The went to Mr. Creamery

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 discus-

Uniformity in Butter

UCH has been written on uni-M formity in hutter-making, but the there is nothing of such importance in preparing butter for market as uniformity in flavor, color and mois ture content. Every conversation with butter merchants impresses one more strongly with the fact that if our creamery and butter factories are to hold their place in the large markets, they must look first to turning out a uniform product.

It does not require any particular skill on the part of the butter-maker to turn out a uniform lot of butter to turn out a uniform lot of butter from day to day, but it requires care and persistent efforts in doing the adaly work in the creamery. If the product is to be uniform, the work must not be done by genessing. When the butter-maker starts his churn he should know how much fat is in the churn, for if artificial color is used he will not know otherwise how much colar to put in each vat from day to day. Guessing in the amount of color needful results in unevenly colored butter from day to day.

There must be some uniformity in the methods used in making butter from day to day. The ordinary butter-maker cannot afford to do experi-mental work in his regular business. If he finds some method which turns out a good grade of butter this method out a good grade of butter this method should be adhered to as closely as may be allowable by such circum-stances as weather, or acidity of cream

Some of the authorities on dairying in United States are now recommend-ing that a number of creameries in a district cooperate to employ an official whose duty it will be to visit these creameries in an endeavor to have them produce a more uniform grade of butter throughout that district. Where a certain aistrict may become known for a definite grade of butter, by such means, cooperation on a larger scale would be possible in the marketing of the butter from the various creameries in this district under its special brand.

Markets at long prices are open only to products which may be obtained in fairly large quantities.

Dairy Exhibits at Edmonton

AIRY exhibits at the Edmonton Summer Fair made a creditable showing and taking butter and cheese together, entries were one hundred per cent. more numerous than a year ago. There were 23 exhibitors of butter and nine of cheese. While creamery butter was well up to the mark, dairy butter was behind last year; this was thought to be due to more farmers sending their cream to the creamery. Mr. Frank Singleton of the Dairy Division, Ottawa, and Mr. Pearson, Provincial Butter Grader at Edmonton, were the judges.

F. J. Brophy of Olds was first, Cal-gary Central Creamery, second; and C. G. Connolly of Lambeth, Ontario, F. J. Brophy of Olds was first, Cal. ²⁶⁹⁶. "Wo leave it to the public to judge are Cantral Creannery, second; and "Wo leave it to the public to judge C. G. Connolly of Lambeth, Ontario, which side is most adequately paid lind. For best assortment of cheese, considering the semant of work perturbative second; and Louis Lechtnikky, a producer resid-teneorch "The special are to the average income for the producer went to Mr. Brophy." We che constrained the barden producer went to the Roephy.

the dairy exhibit. For the best pack-age of fourteen pounds, R. E. Sickel-steel of Ferintosh, was first. W. Hansen of Innisfail, had the Dust parameters of 56 pounds and also of 20 pounds, be of 50 poinds and also of 20 pounds, be-sides winning two specials. Mrs. M. M. Rooks, of Morinville, and Mrs. Robt. Wilson of Vegreville, were the winners in the two farm dairy diasses, while the Hudson Bay special for the best average of exhibits in both classes went to Mrs. James Strickland of Holden, Alta.

Mr. W. J. Carlow of Edmonton, was Superintendent of the Dairy Exhibit

CITY MILK SUPPLY

Milk Strike About Over

CCORDING to recent advices A from the West, the Winnipeg milk strike is about over with the dairy companies the winners. The strike lasted just a little over a week. the milk producers holding out for 25c per gallon instead of the 20c offered them. All through the strike, the comthem. All through the strike, the com-panies were able to get all the milk they needed, at least so they stated, and the milk producers have capital-ated to the terms laid down by the creameries. Producers, it is sold, are creameries. Producers, it is said, are falling into line, and before this ap-pears in print, all of them will be de-livering their milk as usual. In a statement issued during the strike, the producers made the following state ment, justifying their position:

ment, justifying their position: "Cows have increased in price from 50 to 75 per cent.; feed has increased 100 per cent., machinery 25 to 50 per cent. and help about 50 per cent. To balance this we sak for a 20 per cent. increase, or about air and one-half cents a quart instead of five cents, as at present. Now let us see who is getting biggest returns for money invested Here is our side: Assuming that 400 milk producers each having 160 acres of land on which to pasture and feed 15 cows, four horses to do the work and one horse to deliver the milk, a few head of young stock to replace run down cows, and we arrive at the following result:

400 shippers with 15 cows each, or 6,000 cows at \$90. \$ 540,000 400 gr. sec. land or 64,000

acres at \$40 2,560,000

400 stables, granaries, milk sheds, etc., at \$1,500 600.000 400 houses at \$1,000 400,000

400 shippers, each with 5 horses, or 2,000 horses at \$150 300,000

400 sets of implements to work 160 acres at \$1,000... \$30,000 800 laborers for 365 days at

\$2.00 a day 584.000

Total expenditure\$5,384,000

"An expenditure of \$1,000,000 should be sufficient on the part of the creameries with which to prepare and deliver the supply of these 400 milk producers. The producers, with an expenditure of \$5,384,000, receive 5 cents a quart for their milk, whereas the creameries with only a million dol-lar investment receive 11% cents a In the class for two factory, flats or quart from the consumer, or six and stilton shape, white or colored cheese, a half cents more than the producer gets.

TO US

John Hallam Toronto



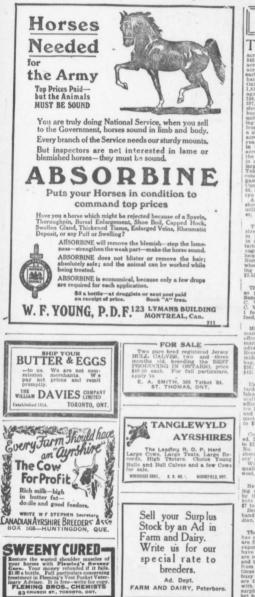
5.44

Unwashed fleece-fine61e to 62c per lb

Unwashed fleece-coarse .. 60c to 61c per lb. Washed fleece-fine 74c to 77c per lb. Washed fleece-coarse 71c to 74c per lb.

Ship to-day or write us telling how much wool you have, if washed or unwashed, and breed of sheep clipped from. We will then quote you a straight price and send you shipping tags with full instructions.

When You Write--Mention Farm and Dairy



838

(18)

Toung Stock for alle, always on hand (both sexes), from high-teating heavy producers. Good udders and large teat a special feature of my herd. Three fine young Sires ready for service. Get particulars of these if you need a sire. R. T. BROWNLEE, Peach Blow Farm, HEMMINGFORD, Que.

Market Review and Forecast

To estimate from the General and Strategies of the server being a first set of the server being a server being a server being set of the server bearded set of the server being set of the server bein

WHEAT. The cash wheat market is gaining in strength, although there is illib in quotations abody Ways been made in quotations abody Ways been tario wheat, the greater strength of Chi-cage and Winninge being redicted on two cage and Winninge being redicted on two wheat, No. 3 writes, 3255 to 32.00, accord-ing to State, or a state, or a writer, 3254 to 12.00855 cGausto

COARSE GRAINS.

MILL FEEDS.

MILL FEEDS. Millers report that there is small de-mand for mill feeds, but that as the differing are correspondingly small, the advanced somewhat durit, price base invariant anow quoted \$38, about \$10 to \$14, middlings \$44 to \$46, and feed four, per base, \$43.58, Montreal quotes harma \$20 to \$43.51 mollings \$44 to \$46, and feed four, per base, \$43.58, Montreal quotes harma \$20 to \$45.51 molling, \$44 to \$45. \$45.51 molling, \$45 to \$45 molling,

HAY AND TRAW.

7%c. Peterboro, July 18.-3,000 colored cheese

Peterboro, July 18.—3,000 colored cheese sold at 20%c. St. Paschal, Que., July 17.—346 cheese sold at 20 1-3c; also 96 boxes of butter at 55 1-6c. Stirling, July 19.—790 boxes sold at

Strings, July 12.-739 boxes aold at 20% c. co., July 12.-739 white and 170 Kingot 600 boxes and at 210; 29% offer-ed for balance and refused. Hrockville, July 13.-4.094 white, 960 colored, 20% being 1-3 for both. No colored at 04 at 20% c. Iroquois, July 20.-2813 white and 407 colored at 04 at 20% c. Iroquois, July 20.-840 cheese, 20% co dreded. No sale on board nor on the

offered. No sales on board nor on the The second s

LIVE STOCK.

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July 3

and this viously: 1 choice J Butchers do goo do con Butchers do goo do met Butchers do goo do met Scokers, do met Peeders, do met Scokers, do met Scokers, do met Besters, do met Scokers, do com Scokers, do met Scokers, do com Scokers, do met Scokers, do com Scokers, do



VICTORIA

Toblique Toblique for a good splendid g Grain of a going to b only get g Pasture is a bushel.—

NORFO

Port Bur tions at 4 warm. Po as other y taking care crop. Hog butter, 34c. w

W WATEER every day considerabi-the hoeing fields are potatoes as bugs are potatoes as bugs are look well, and is two yield will 4 total failu Waterloo was held is and was a in attendam

GF THORNE

THORNE very wet w hay that v Some say while other iands seem The pastur the cows h wants fine crop.—C. F

NEW

NEW Queen Inh held the C the oight established 427 bb, milk test 4 per cu most 9 mon Queen the h ada of any caiving divi two other c At present, are 13 dau of Queen.

SENIOR .

Editor, Fa through prei that the H Helm Mary the record f lor two-year vision by pr days 2,056.9 the fat, with

PEACH BLOW AYRSHIRES

Undice heavy steers	.\$1	1 00	to	\$1
Butchers', choice hand;	v 11	00 1	to	1
			to	1
do common	. 3	\$ 50	to	
Butchers' bulls, choice,		1 00	to	
do good	. 9	00.7	to	
do medium		00 7	to	
Butchers' cows.	. 8		10	
do good		00	to	
do medium			to	
Feeders, 900 to 1,000 lbs	8		to	
do medium, 700 to 800				
pounds	7	75	to	
Slockers, 700 to 900 lbs	7		to	
do medium	6		to	
Canners	5	00	to	
Milkers, good to choice.	90		to	12
do com. and medium.	40		to	8
Springers	40		to	12
Calves, veal, choice	13		to	11
do medium		50	to	11
do common		00	to	- 3
do grass	6	00	to	
do heavy fat	8	00	to	10
Spring lambs, cwt	15	00	to	13
Sheep, yearlings, choice		~~		
_ clipped	10	00	to	11
Sheep, ewes, light, clip-		00		
ped	1.9	50	to	
do heavy and bucks	. 6	50	to	1
do culls	4	00	to	5
Hogs, fed and watered.	15	75	to	00
do off cars	16	00	to	. 00
do f.o.b	15	00	to	00
	10	00	10	00

Postal Card Reports Correspondence Invited.

VICTORIA COUNTY, NEW BRUNS-WICK

Toblique River, July 13.—The praspect for a good crop is fine. We are baying algoridal growing weather right along, going to be above allowing fine; hay is going to be above allowing fine; hay is only set good weather to take care of It. Pasture is extra good. Oats selling at 96e a bushel—D. I.

NORFOLK COUNTY, ONTARIO.

Port Burwell, July 17.--Weather condi-tions at time of writing are fine and warm. Potatoes are growing fine, as well as other veretables. Pareners are busy coperations with a fairly good crop. Hogs, shing with di as fairly good crop. Hogs, shing with di as fairly good butter, He. Rys promises well.--C. B. F.

Beamsville

your ad.

and this had been contracted for pre-viously at \$15.66, off cars. Their back set of the line of the

GANADIAN HOLSTEIN BLOOD AP.

GANADIAN HOLSTEIN BLOOD AP-PRECIATED BLOOD AP-MERCIATED AT A STREAM AND A STREAM 8 25 8 25 6 50 6 00 20 00 20 00 20 00 15 50 1 50 8 50 7 00 7 00 1 00 50 50 50 00 00

RATES TO CENTRAL CANADA EX-HIBITION.

ARTEN TO CENTURE CANADA. EA-HIBITION. Deficiency of the state of the

U. S. JERSEYS FOR CANADA.

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Avondale Sales to the United States-

(19)

THE FIRST SON OF CHAMPION ECHO SYLVIA PONTIAC to be sold went last week to the well-known A. A. HARTSHORN HERD, at Hamilton, N.Y. At WORCESTER SALE, we sold sires to Messrs. Ralph Stevens and Quentin McAdams, two of the leading breeders in the United States.

We have only five of his sons left and they won't stay long as three went last week. They are all from splendid dams, and we want some of them to stay in Canada.

We offer SIX beautiful sons of WOODCREST SIR CLYDE -all grand individuals and from the best of dams, having records from two year class to mature cows with over 30 lbs. His first daughte) freshen has just finished a 22 lb. record. We can suit almost any purse and offer them at bargains.

CHAMPION is still open for service to a few approved cows. He has just been bred to the \$18,000 champion 2-yr.old 42 lb. heifer, sold to Worcester; also the champion junior 2-year-old of Roycroft Farm.

Avondale Farm H. LYNN Brockville, Ont. -"ENTIRE HERD TUBERCULIN TESTED"-



Ontario

The Surest Way Fo sell your surplus stock is through the live stock columns of Farm and Dairy. The cost is little and the results certain. Send in

When You Write---Mention

Farm and Dairy

839

11.21

840

July 26, 1917.

THE TRIPLE ENTENTE of FARM AND DAIRY Confidence Control Contents

Control-the Men behind Farm and Dairy

In these days, it is desirable that farmer; should know who are behind the publications they receive, as some farm

In these days, it is desirable that rarmer's should know who are beam in the paintations they receive, as some harm papers are owned by interests that at times exploit the farmers. As a reader of Farm and Dairy, you will be interested to know who the men are that control Farm and Dairy and direct its policy. Farm and Dairy is published by the Rural Publishing Company, Limited, a joint stock company, the majority of whose shareholders are farmers. The company is managed by a board of nine directors, composed as follows:

- majority of whose shareholders are farmers. The company The President Mr. W. M. Balantyne. of Straiford, Ont. is a dairy Cattle Invender' Ansosiation, and of the Gueph Winter Fair, and a director of the Ganadian National Exhibition. Vice-President—Mr. Geo. A. Olllespie. MLA., of Peterbore, is a creamery proprietor who, until recently, has had a dairy farm in Peterbore county. He is a director and past president of the Eastern Ontario Dairymen's Association. Mr. A. C. Hallman, Hresian, Ont. is a dairy farmer in Waterloo county, a past president of the Canadian Holtein-Presian Cat-le Breeders' Association, and is well-known as a Parmers' in-atilute speaker and an exhibitor and judge of dairy cattle. Mr. Henry (Jendinning, Manifla, Ont., is the well-hown dairy farmer and Parmers' Institute speaker; a successful breeder of Jersey cutle, is poince and enthalistic advocate of alfalfa.
- Jersey catile; a pioneer and enthusiastic advocate of alfalfa. Mr. John R. Dargavel, M.L.A., Elgin, Ont., is a general merchant and
- owner of one or two dairy farms in Leeds county. He is a past

A paper controlled by men so prominent and in such close touch with agricultures work, is one that may well be depended upon to have the farmers' viewpoint, and to enjoy their confidence as well as to support their interests wisely, tactfully and forcefully. It is because Farm and Dairy has been doing this that its circulation has more than trebled during the past eight years.

Contents the real reason why Farm and Dairy Trebled

The farm paper is the greatest power we have for spreading in-ormation on better agriculture. This is the finding of the U. S. Department of Agriculture. Possibly you have never thought of the many subjects covered by most farm papers every week. Here for instance is a summary of the leading features in Farm and

Dairy, most of them appearing in every issu

- Editorial-Leading issues, as they relate to the farmer discussed and explained. The viewpoint of different leaders of thought submitted and commented upon.
- Articles-Illustrated descriptions of high-grade farms, special articles on dairying, feeds and feed growing, etc.
- m Management—A general exchange of ideas, on simpler, cheaper and better ways of running the farm.

Feeders' Corner-What to feed and how to feed it.

News-Events of particular importance and value to the farmers; especially dairy farmers, who comprise the bulk of our 23,000 renders

United Farmers' Page-Cooperation among farmers and what the Farmers' Clubs are doing-a weekly feature.

Makers' Corner-Weekly resume of the cheese and butter situation.

- City Milk Supply-Specially interesting to the thousands of farm-ers who sell milk for city consumption.
- Market Review and Forecast-A weekly guide to the man on the farm
- Breeders' Section-Something each week of primary interest to breeders of dairy cattle.
- Farm Chata-The viewpoint of practical farmers, interestingly told.
- Queries and Answers-Technical, legal and practical advice given free in reply to questions submitted by readers.

Horticulture-Helpful hints each week on the orchard and garden. Apiculture-Useful information about beekeeping and honey pro-

- duction
- Poultry-"Biddy," the hen, is remembered in each issue. Properly handled, she is a money-maker.
- Household Department-Hints on home-making, recipes, easier and better ways of doing routine work; talks on health and hygiene for young or old folk; fashions and patterns; (1,080 patterns went out to our readers in the two past months.) Then there is the serial story which alone sells for more than the price of besides many suggestions for the social life of our young folks.

president of the Eastern Ontario Dairymen's Association, and at present is the chairman of the Committee on Agriculture of the Ontario Legislature. Mr. A. J. Revnolds, Hampton, Ont., has been Vice-President

- Mr. A. J. Réynolds, Hamptony Ont, has been vice-resident of the United Farmers of Ontario, and is the auditor of the United Parmers' Cooperative Company, Limited. He is also secretary of the Toronto Milk Producers' Association. Mr. J. N. Paget, Canboro, Ont., is the proprietor of a couple of cheese factories in Haldimand county, a director and past presi-dent of the Western Ontario Dairymen's Association, and well.
- dent of the Western Ontario Dairymen's Association, and well. known as a Farmer' Institute speaker.
 Mr. R. M. Glover, Peterboro, is the Managing Director of the Examiner Printing Company, of Peterboro.
 Mr. H. Bronson Cowan, is the Managing Director of the Rural Publishing Company. Limited, and Editor-in-Chief of Farm and Dairy, Mr. Cowan was formerly the Superintendent of Agri-cuiting and Horicultural Societies for the Province of Ontario.

Confidence that counts-the judgment of our readers

The motive and confidence of a paper determines its worth both to its readers and to its advertisers. Farm and Dairy enjoys a unique position in this respect. It was organized, and is owned and controlled by dairy farmers and dairymen who desired to have a farm publication in closest touch and harmony with the needs of the dairy farmer. That Farm and Dairy has accomplished this and holds "first place" in Canadian dairy farm homes is indicated by the following from among hundreds of sur letters: "I believe you have in Farm and Dairy the best dairy paper in the Dominion."-W. H. Mills, Sparta, On. Pehruary 17, 1917.

February 17, 1917.

"Farm and Dairy is making a splendid effort to help the farmers of Canada, and I would like to see 200,000 names on the malling list instead of 25,000. Keep my own name on your list, as every one helps."-O. D. Tibbits, R.R. Steveston, B.C.

March 28, 1916

"I have always read your paper with interest. I would have none other than Farm and Dairy for it deals so completely with Farm interests from the beginning of the year until the finish. We have profited by your advertisements several times."—S. H. Seavoy, Jr., Matheston Stn., Ont.

December 12, 1916.

"Your paper I consider the best of the four journals that come here. All the family takes great pleasure in reading every number. We are all helped by it."—John G. Prout, Dorland, Ont. December 20, 1916.

"I would not wan' to be without a single copy of your paper, even if you charged \$2.00 for one year. Nearly everybody around here takes Farm and Dairy now."--Chas. T. Hayward, Emsdale, Ont

April 10, 1917.

"Enclosed please find renewal for Farm and Dairy. It's my first choice to look over on receiving my mail. I cannot speak too highly of your paper."-Asa A. Johnston, Sweetsburg, Que April, 1917.

"I like the Farm and Dairy fine and enjoy the discus different topics."-Egbert Avison, R.M.D., Barrie, Ont. ssion on the

"I do not know Farm and Dairy, but if it is helping in uniting farmers into some kind of a Union, I am with you to a finish",-E. F. Campbell, R.R. No. 3, Waterloo, Que. (a new subscriber).

"I would certainly have missed Farm and Dairy if you had discontinued it. It is worth the price for the auction sales alone." -T. Merritt Moore, Springfield, Ont.

May 28, 1917.

"We find Farm and Dairy very helpful. It always sticks up for farmers' rights."-S. Crutchfield, Huntingdon, Que. May 25, 1917.

"I take several farm papers, but like Farm and Dairy much better than any of the others."-W. L. Etter, Shubenacadie, Hants Co., N.S.

Farm and Dairy is becoming the voice of the men on the farms.

To be a reader of Farm and Dairy is the sign of a progressive, independently thinking man