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We realized that the lasting powers and efficiency of any machine depend entirely on the workmanship and materials put into same. Hence we very great care in the construction of our machines.

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Unlimited Water for every Purpose

Hot or cold, running water by simply turning a tap. Water for k alty conveniences in the country, water in barns and fields for stock, orchards for sprinkling and spraying. Sounds pretty good doesn't it?



FARM AND DAIRY

September 9, 1915

Patriotic Year at the Canadian National The Machinery of War and the Products of Industry Exhibited side

by side. Agricultural Displays of a High Order.

T is Patriotic Year at the Canadian National Exhibition. The peace-field in dustries of Canada are re-flected in the exhibits as in days of yore. But alongside of the triumphs of peace are the trophies of war. The visitor who had read day after day of shrapnel and lyddite, seaplanes and aeroplanes, cruisers, submarines and torpedo boat destroyers will go home with a more intelligent appreciation of just what these machines of war look like; for were there not mode's of them in the Government Building. The life of the soldier in the trenches and in camp found its interpretation in the model c mp with its trenches and dug outs. Exhibitions were given of trench defence and attack. Miniature battle ships were destroyed on the water front. All very interesting were these military features. And all very tragic in their significance. They served to bring home in a real site way to the people of Canada that we are engaged in one of the most terrible wars in history.

The weather up to time of writ-ing has been ideal, and record crowds thronged the grounds all of the first week. The agricultural crop displays in the Government Buildings are of



Symetry and Uniformity as Exemplified in the Ayrshire Milk Class. In the forefront is the winning cos of Senator Owens. The others are d type,-beauty and utility combined. In combining these characteristics, the white breeders atcel.

the usual high character, and served to exhibit Canada's great resources in the field, the orchard and the garden. The dairy exhibits are well up to the standard. But it is in the live stock that interest centred for the progress sive farmers of Ontario. Here the displays were of a universally high character. It was feared at first that the dearth of importations from Europe during the past 12 months would have a decidedly detrimental effect on live stock exhibits, so farreaching are the destructive influences of war. In a degree this was realof war. In a degree this was realized, Horses particularly were down need, notses particularly were down in numbers, about 10 per cent, and sheep fell off for the same reason. On the whole, however, the exhibit was good enough to satisfy the most exacting

The Horse Classes

One good effect the war did have,it served to show the great numbers of high-class horses we already have in this country. Canadian-bred class-es were strong. These, with importations of previous years, brought the heavy horse classes almost up to the heavy horse classes allows of the strength of previous years. At the time of writing iew draft horses had been judged. In the Clydesdale classes the chief exhibitors were: At the Hodgkinson & Tisdale, Beaverton; T. Michael & Sons, Seaforth ; T. H. Has-sard, Markham; Graham Bros., Clare-mont; H. A. Mason, Scarboro, and W. F. Batty, Brooklin. Shires were exhibited by Hodgkinson & Tisdale,

Johnston Bros., Croton, and J. t. Guardhouse, Weston. Percherons were much strang than anticipated. As in previous years, these classes were largely fild with animals of recent importation. Many of the classes, however, fuller than corresponding Clyde da among the exhibitors were:
B. Hogate, Toronto: Hodgkinson
Tisdale; T. H. Hassard; T. I.
Elliott, Bolton; R. Hamilton, Simon Wm. Pears, Toronto, and W & Son, Queensville

Beef Cattle

The beef displays have come und'er the judge's eye at writing, 1 ut competition will be k In Short) orn classes are the two n In Short) in classes are the two who has competed all over the this sur mer, J. Watt & Sons, F. and A F. & G. Auld, Guelph additi, a to these are such a hord an tone of Kyle Bros. D hord and these of Kyle Bros. D hord Jas. Leask & Sons, Son and Geo. Amon & Sons, Modian and Geo. Amon & Sons, Modian sides many others with smaller

tries. O. Clifford, of Oshawa, at a time had Herefords all to him This year he will have to fight

the way with Jas. Page, Wallace G. E. Reynolds, Elora; W. Read, Milton, and W. H. & J. S. Hu Orangeville. Aberdeen - Angus tions are filled from such herd those of Jas. Bowman, Guelph Burt & Sons, Hillsburg ; J. D. I Queenston, and Thomas Bro

In the Sheep Sections

Sheep, in some sections, disappointment. Lack of animals had much to do with almost all breeds there was improvement; though by not mean that the showing thing but good. Cotswolds tested by Sam. Dolson & S man Park, E. F. Park, G. & Sons and Jas. A. Campl & Sons and Jas. A. Campic cesters brought out the w flocks of Jas. Snell & Son, Whitelaw and Jno. Kelly Shropshires, usually so stre hardly up to their usual Jno. R. Kelsey, of Woody the leading winner, with the the money divided between Gurney & Sons, Mrs. E. L. all, J. Lloyd-Jones and J. E. & Nephews. Peter Arkell with most with Oxford Downs with competition from E. Barbat Senator Owens. Southdowns I out J. W. Springstead & Son McEwan and J. Lloyd-Jones. Horns were a slim entry fi flocks of J. A. Orchard and (Continued on page 8)



Trade increases the w

Vol. XXXIV

The Manager o NSON GROH is a

may be drawn by st to the headquarte Cooperative Company 1 monto, will there me siness. The alert loc w the window is the his great farmers' coo miness that he now su 1,000 a day. Its custa sery corner of the pro hoh has been a lead Farmers' movement fr oving an able preside But in this capacity as not yet served a fu eputation was made ate lecturer long befo if the United Farmer as conceived in the mi f Ontario's public sp rs. There are few sec ario where from the In mm, Mr. Groh has not he mysteries of carbol otein and why the f these two in an me-grown dairy ratio silage and alfalfa ha rable. His success of rm was due to his yra le did not elabo.ate He tol i sin ories. ethods that hac, broug as on his owr. farm i , Ont. It was at o stitute meetings that e energetic little fa aterloo. But if one low Anson Groh, they he old farm in his he ere for 30 years he to nd pay for a farm, rai

te to every worthy co From 95 The original farm pu ars ago, consisted of pable of being brought res is not a big farm one man and his w ood back of the barn, a om the public highway to in good repair. I a respectable apole elter. The difficult at farm was tackled v nied by all the thrif people of Pennsylvani

nated a large family a

National

Exhibited side der. m, and J. M.

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Oshawa, at a all to himse have to fight a



others are of acteristics, the

age, Wallaceto ora; W. Readb & J. S. Hun rdeen - Angus m such herds man, Guelph? nurg; J. E. Lu homas Broad

ep Sections

sections. Lack of to do with there was t igh by this showing w Cotswolds w olson & S Park, G A. Camp ut the w 11 & Son no. Kelly lly so st ir usual of Woodvill er, with the d between Mrs. E. s and J. E. ter Arkell with Downs with E. Barbo Southdowns stead & So Lloyd-Jones im entry f d on page



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

Vol. XXXIV

PETERBORO, ONT., SEPTEMBER 9, 1915

No. 36

Anson Groh: The Man and His Farm The Manager of the United Farmers' Cooperative Co., Ltd., is an Unusually Successful Dairy Farmer.-By F. E. Ellis.

A NSON GROH is a man of parts. Those who may be drawn by curiosity or genutine interto the headquarters of The United Farmers Deperative Company Limited, at 100 Church St., faconio, will there meet Amon Groh, the man of senses. The alect looking little man at the desk y the window is the president and manager of his great farmers' cooperative movement. The anises that he now superintends amounts to over 1000 a day. Its customers are farmers' clubs in every corner of the province of Ontario. Anson ind has been a leading spirit in the United Timmer, movement from its inception 'and is sening an able president and capable manager.

But in this capacity, Mr. Groh as not yet served a full year. His eputation was made as an Instinte lecturer long before the idea the United Farmers' Company as conceived in the minds of a few f Ontario's public spirited farmrs. There are few sections of Onario where from the Institute platm, Mr. Groh has not made plain he mysteries of carbohydrates and otein and why the combination d these two in an economical, me-grown dairy ration of corn silage and alfalfa hay is so derable. His success on the platrm was due to his practical style. le did not elaborate text book ories. He tol i simply of the ethods that has, brought him sucss on his owr. farm in Waterloo , Ont. It was at one of these stitute meetings that I first met e energetic little farmer from aterloo. But if one would really ow Anson Groh, they must visit e old farm in his home county, sre for 30 years he toiled to buy d pay for a farm, raised and ed-

ated a large family and still found time to dete to every worthy community enterprise. From 95 Acres to 335

The original farm purchased by Mr. Groh 30 ats ago, consisted of 05 acres. Only 50 were puble of being brought under cultivation. Fifty res is not a big farm, but it was big enough enough and his wife. The old frame house od lack of the harn, almost a guarter of a mile as the public highway.' Neither house nor barn to in good repair. In fast the barn was not e a respectable apology for a stock, and feed der. The difficult problem of building up at farm was tackled with all the vigor, accomnied by all the thrift, that are characteristic pople of Peumsylvanin Dutch extraction. In a Icw years things had gone so well with the Grohsthat the old barns were torg down and new ones built. At the end of another few years, the old house was put on rollers and brought out in line with the barn. So throughly had it been renovated and modernized that when I visited the farm the latter part of last Myz, I took it for granted that the Grohs had built a new house. With these two main building opersitions complete, the farm began to assume the thrifty and prosporous look for which its proprietor had been striving.

But in the meantime the family had been increasing and 50 acres of workable land is not



Farm Home of the Manager of the United Farmers' Cooperative Co_{γ} Ltd. This is the home as it looks to-day. When Anon Grob purchased the farm 30 years are it was no dif frame aback standing come code from its present site and helind the tarm. Like the rest of the farm and farm buildings, the home has been improved past reception of the farm and the standard state of the rest and built.

enough to profitably occupy a large and growing family. A 200-acre farm down the road was rented. Then it was put on the market so cheaply that Mr. Groh did not believe he could refuse to buy it. The farm was badly run down through a quarter of a century of renting and cropping, but on it were a fair set of buildings. That was 12 years ago. A small farm between the two properties now owned by Mr. Groh, was held by his uncle. It too came on the market and as it lay between the two farms already owned, it was purchased. Thus it was that the holdings of the Groh family to-day total 335-acres. They own all the land along one side of the road for one and onehalf miles. A son-in-law has rented the front hundred of the biggest farm of the three and only

half of the remaining hundred is workable. Even with this responsibility taken off their hands, however, the Grobs still have 150 acres of workable land to care for.

To shart with little capital and end up in 30 years with 335 acres of land all paid for, is a man-sized job. When the executive of The United Farmers' Cooperative Company Limited, began to look around among their number for a man with the business acumen to care for a growing cooperative enterprise, is it any wonder that Anson Groh was their choice? His acceptance of the position, however, meant that he had to spend practically all of his time in the eig of Toronto, and the

responsibility for the direction of the farm has fallen upon his son, Herber, the oldest boy, a graduate of the Or twio Agrienitural College, and for some time assistant to the Dominion Entymologist at Ottawa. Herbert now has settled down to the bife of a practical farmer, and it was he who showed me over the farm and told me of their farming methods.

The farm could not well be more conveniently situated in regard to markets. There are six cities and towns within easy reach. It is just three miles to Galt, one and onehalf to Hespeler, one to Preston, 10 to Guelph and Berlin, and 12 to Waterloo. The soil is mainly a sandy loam with a gravelly subsoil. Such a soil is not usually rated very high. "Perhaps not," admitted Herbert Groh, "but it is a soil on which we are sure of a crop every year. I would rather work this soil than one running to the other extreme. It is easy to till, as good for corn as any, but not particularly adapted to

wheat." The lay-out of the farm is in I7-acree fields, all square and all well fenced. The farms when first purchased, were laid out irregularly and inconveniently. Particularly was this true of the 200 serie farm. The work of rearranging the fields has now been practically completed, however, and the following systematic rotation facili tated. This rotation calls for two years of hay, two years of grain and one of hose crop, the latter of coren, roots and rape. Eighteen acres are in alfalfa, but this is outside the rotation altogether. Thus does Mr. Groh follow in practice what he has so long contended for on the Institute platform, lots of corn and lots of alfalfa for the dairy heed.

The silo accommodation on the various farms

consists of a cement silo, 12 1-2 x 30 feet inside measurement or the home farm, one 12 1-2 x 35 feet on the 200-acre farm and a smaller silo on the farm purchased three years ago. These silos allow of ample provision for winter feeding. Summer feeding is more of a problem on this somewhat light soil. It takes a heavy soil or lots of rainfall to ensure good pastures and in the average year the Groh pastures must be supplemented for a couple of months at least. This year provision was made for pasture shortage with 10 acres of the Zavitz pasture mixture. Better still, when the cows went out to grass, there were a few feet of silage left in each of the three silos. Between the two the cattle would not have suffered even had the summer been a dry one

The Dairy Herd

The Groh farms are primarily devoted to dairying, but of the dairy herd itself I will say little at this time. The herd is worthy of more extended mention than I can give it here and the feeding and breeding methods followed by Mr. Groh and his son, will be dealt with fully in a later issue of Farm and Dairy. For 15 years they have been endeavoring to improve their herd by means of individual records and the use of the best pure bred sires obtainable. Just lately they have been combining feed records along with production records and are now weeding their herd on the basis of their ability to produce net profits. Half of the milk cows are pure bred Holsteins and the other half, good Holstein grades. The pure breds will increase only in proportion as they prove themselves more economical producers than the grade animals in the herd. Briefly, the progress that has been made in this 15 years of work may be summed up in the statement that with one exception the poorest cow in the herd to-day is as good a producer as the best cow in the herd 15 years ago. The exception is an old cow with bad teeth, that is kept for breeding. Last year the 21 head milked averaged 8,145 lbs. of milk.

During a part of the year cream is sold to two ice cream parlors in the town of Preston. This cream must test 20 per cent. and be perfectly sweet. The price is \$1 a gallon. During the balance of the year, milk is sold to dealers in neighboring towns at 15 cents a gallon on the farm. Another important aource of income is hogs, of which 50 are turned off annually. Practically everything grown on the farm except the wheat and sugar beets, are fad to live stock on the farm and the fertility returned to the soil. Even in the case of the augar beets the pulp comes back from the factory.

The Buildings

The size of the barns that Mr. Groh erected almost a quarter of a century ago would lead one to suspect that even then he had coverous eyes on the land of his neighbors. This barn is 94 x 54 fees, surely very commodious for a farm with only 50 acres of workable land. An unusual feature of its construction, to me at least, was the covered manure pit occupying a space in the basement, 54 feet long and 40 feet wide. This manure ahed, however, serves a double purpose. It makes a well sheltered exercising ground for the coves and the constant tramping back and porserves a maximum quantity of the fortillising ingredients.

The feed room is so arranged that the silo and root cellar empty into it. The granary is just above and the chaff is thrown through a chute into the same room. A large feed car simplifies the distribution of feed to the herd. Litter carriers have not been installed because the ceilings are too low, but the Grohs have them in another bars and find them most convenient. The continuous coment mangers have been divided off by (Concluded on page 11)

FARM AND DAIRY

Feeding Value of Sprouted Wheat

10 reliable r'atistics have yet been made of the amount of wheat damaged by sprouting this voar. Trade estimates have varied all the way from 10 per cent. to 25 per cent. of the Ontario wheat crop. Probably the truth is somewhere between the two. Even if the lower estimate is the correct one, there will be an immense amount of inferior wheat to be disposed of this fall and winter. The question that has to be decided is, can the wheat be disposed of to best advantage by marketing as grain or by feeding to stock and marketing on the hoof or in the milk can? Already grain dealers have established a lower price for smutty or sprouted wheat. Last week, for instance, good Ontario wheat was quoted at \$1



A Good Example of Tree Surgery.

A fine house can be built in a semann; but the everytable old tree that shades it cannot be reputed as one time or another. There is a control we reputed as one time or another there is a provided to the start of the same transformer property treated and then filled with comment, Ottawa. Indefinitely-Tholo, courtery Forenty Financh, Ottawa.

to \$1.02, while sprouted or otherwise inferior wheat was quoted down as low as 70 cents, the latter quotation making the profitable feeding of wheat easily possible. Certainly it looks like "feed" to many farmers.

Wheat damaged by frost has practically the same feeding ratics as marketable wheat. Wheat that has sprouted, however, losss in feeding value in proportion to the amount of growth, the proteins being changed to the amide form which is inferior for flesh production, and the starches being changed into sugar. The average loss from germination is probably between five and fitteen per cent., but very solom reach the higher figure. Its Feeding Value

The average value of wheat is best indicated by its analysis. In 100 lbs, of average wheat behaviors are the following quantities of digestible nutrients: Protein, 10.2 lbs.; carbobydrates, 60.2 lbs.; and ether extract, 1.7 lbs. Compare this with the analysis of Indian corn: Protein, 7.9 lbs.; carbohydrates, 66.7 lbs.; and ether extract, 4.3 lbs. We see that wheat is considerably richer in protein, the flesh forming ingredient, slightly richer in carbohydrates, and decidedly poorer in fat. Meast, therefore, furnishes a better balanced ration for farm animals than does corn. Especially is this true in the feeding of young and growing animals, a statement which is corroborsted by the experience of feeders. Henry, in his "Feeds as Feeding." summarizes wheat as follows:

"What may be regarded as a satisfactor judfor all kinds of farm stock, in the hands of intengent feeders. Mixed with corn, cats or bran is a superior to either alone for work horses. For judtening cattle and dairy cores, it not only furning abundance of nut-fent, but through variety gm edge to the appetite. When on a visit to Willing Watson, the prince of American , feeders, see years since, the writer found him feeding whe wheat of fine quality to sheep in preparation ferfat stock show. For sheep, this grain alone g mixed with others, may be fed in the entire g

whole condition; for other stock it should a receive some form of preparatio, eith grinding, boiling or soaking. During mag cation wheat and wheat flour adhere to it guns forming a pasty mass. This can be pasuch athetance with the wheat or flour. Then a feed of great palatability and healthfulman a feed of great palatability and healthfulman wheat does not equal corn for i attening paposes, yielding perhaps ten per cont, less n turns "

Sprouted Wheat For Pigs

It is as a feed for pigs that Ontario farms will most seriously consider the feeding van of their sprouted wheat. So important is in subject in the United States, that at least is stations have experimented carefully with a value of wheat, meal as compared with eqmeal. 'Summarizing the results of these experments, Heary says: 'The difference being a small, we may conclude that wheat meal as corn meal are practically of equal value is fattening swins.'' If wheat is of such a gas that it must be sold for 70 cents to 80 cent it is a more economical feed than corn at a present price of 80 cents, or corn meal at 83.3 a cet.

In feeding wheat to daffy cows best reah can be obtained by feeding a small quantity d wheat with a larger quantity of other grain such for instance as out chop with a small peportion of cottonseed or oil cake. The same irree with horses. In feeding sheep, good n suits have been obtained by feeding the whi grain.

Many practical feeders assert that wheat worth \$1 a bushed. Poultry men are willing a pay this much and more for good sound wheat and probably the heas will pay more per bush

and probably the heas will pay more per tons for wheat than any other class of farm sion Where wheat is sound and in good conditis it will be marketed through the regular clas nels. Where damaged, it had better be fed home where fully as much per bushel can be realized on it, and the holding back of damage wheat will create a better market for the sour wheat that we have to market.

Diameter of the Silo

THE diameter of a silo should be determine by Up amount of ensilage to be fed. If he moulding is likely to start. The warmer he weather, the greater the depth of ensilage in rhould be removed. In writter 12 dairy corst 40 pounds a day will use up the right amount a 14 foot silo, while in summer it would repulic cores to use up the amount of ensilage the should be removed daily. For the 12 foot silo cows in winter and 13 in summer; for the 16 m silo, 17 cows in winter and 26 in summer. If diameter of the silo and let the height determine the capacity.—North Balcota Zexperiment State September 9, 19

Diversify

if not dangerous in no region should t crop. The old sayin than one basket," is "The Rotation of C farm practice which different food requir finite cycle of crops order. This, if rig fertility, works for weeds, insect enemie it also prevents the This latter trouble i growing of the same on a given piece of Plants feeding at t food elements, absor tion of these particul can render them ava fore, there comes a ti tice when these par sparingly fed and re harvests. All crop the soil. They ma ments, or feed on th ent depths. When pla the deeper feeding p feeders without seri should they use the eventually, the avails hausted, and that soi

The depositor who from the bank with time to time, will, at uraned marked "Sho continued overd"afts, witharwals, with no "banks," we will soor Nature marks our che by giving us a "cro does not pay profital able plant food being What a Bos

What a Roba The successful exp ing general crop far important facts:

The farm rotation cash or money crop.
 It should also it or hoed crop.

3. It should have a feeder crop.
 4. It should have

crop. 5. These crops sho

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bulky feeds into milk meat products.

7. Each farmer in e



A Herd Number Here we see at pasture of Farm and Dairy. T

ber 9, 1915

orn. Especially ng and growing roborated by the his "Feeds and follows :

atisfactory for hands of intelli ts or bran it is horses. For fat. t only furnished zh variety give visit to William feeders, some reparation for a grain alone or n the entire a k it should me aratio, either

During masti adhere to the This can be premeal or some r flour. Though d healthfulnes fattening put r cent. less m

Pigs

Ontario farmen e feeding value nportant is this nat at least fm efully with the ared with con of these experi erence being s heat meal and equal value for of such a grad nts to 80 cents, han corn at in n meal at \$3.3

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Silo

l be determine be fed. If les e removed dail e warmer t of ensilage th dairy cows fe ght amount from it would requi of ensilage th e 12 foot sile, ; for the 16 fa n summer. L determine t neight determi eriment Statio

September 0, 1015

Diversify Your Farm Crops

THE one-crop system in farming is hazardous. if not dangerous, to follow. At no time and in no region should the farmer be tied to just one crop. The old saying, "Put your eggs in more than one basket," is a trite but true one to-day. "The Rotation of Crops" names a system of farm practice which groups field plants with different food requirements so as to give a definite cycle of crops in recurring or successive order. This, if rightly chosen, conserves soil fertility, works for the elimination of certain weeds, insect enemies, and crop diseases, while it also prevents the formation of crop sick scils. This latter trouble is caused by the conti .uous growing of the same crop for a period of years on a given piece of land.

Plants feeding at the same depth, on the same food elements, absorb the readily available portion of these particular foods faster than Nature can render them available to plant use. Therefore, there comes a time in this single crop practice when these particular crop plants will be sparingly fed and return to the farmer lessened harvests. All crops do not feed alike on the soil. They may use different food elements, or feed on the same elements at different depths. When plants feed at different depths, the deeper feeding plants can follow the shallow feeders without serious immediate loss, even should they use the same food elements, but, eventually, the available plant food becomes exhausted, and that soil is said to be impoverished. The depositor who continues to draw his money from the bank without making deposits from time to time, will, at last, find his cheques returned marked "Short." No bark will permit continued overd afts. If we practice continued withdrawals, with no food deposits in car soil "banks," we will soon have such a condition that Nature marks our cheques of withdrawal "Short" by giving us a "crop sick" soil-a soil which does not pay profitable crop returns-the available plant food being exhausted.

What a Restation Should Include

The successful experience of farmers practising general crop farming teach the following important facts:

1. The farm rotation should have at least one cash or money crop.

2. It should also have at least one cultivated or hoed crop.

3. It should have at least one legume or soil eeder crop.

4. It should have one live stock or feeding

5. These crops should be so grouped or planned as to most economically distribute farm labor throughout the year.

6. The farmer should plan to convert cheap, bulky feeds into milk, poultry, or some kird of neat products.

7. Each farmer in each locality must determine



The Second Crop of the Season.

the special rotation that markets, transportation facilities, climate and soil conditions would seem to favor and encourage. It can not be done by "rule of thumb," or copied from what someone else is doing. It must be carefully thought over and worked out by each farmer, adapted to his crop capacity and farm environment.

The cultivation crop may, at the same time, be the cash crop. This crop enables the farmer to keep down weeds, and at the same time stirs and acrates the soil. It should be a crop that is certain to give a satisfactory return at the close of the season, either as a feed or a market crop.

Caustic Petash Dehorning

ONE of the cruelest jobs that I ever had to do on the farm was dehorning the yearling heifers with a saw. The worst point about this operation as I see it now was that it was absolutely unnecessary. Such a method of dehorning is brutal in the extreme. We now exercise foresight and do not allow the horns to grow. We use the caustic potash method.

When the calf is one to four days old, two of



A Herd Numbering Three Cows That Have Produced Over 20,000 Lbs. of Milk Each. se see at partner a part of the herd of Wilhur McElroy, Dundas Co. Ont. as photographed by an ee m and Dairy. This is probably the only herd in Chanda with three 2000 pound core and certainly only herd to make three 2000 pound records in one year.

us go to the stable. The calf is thrown and the attendant holds it securely. I clip away the hair from the tiny button where the horn will be and then rub for a half a minute with caustic potash or until the spot starts to bleed. I wrap the stick of caustic potash in paper as otherwise it might injure the hands. I exercise proper precautions to see that none of the potash runs down over the head, as it would then be very painful. Scabs will form where the potas! has been rubbed in. The scabs in time drop off and there will never be a sign of a horn. Our cows look just like moolies.

I have heard this method of dehorning objected to on the ground that the horns will occasionally grow and that it was quite common to see a cow so dehorned with one horn grown out and no horn on the other side of the head. There must have been something wrong with the treatment. We have never had a failure.

Cheaper Automobiles By C. R. Barns.

"HE day when the automobile could be regarded as the vehicle of the rich and prosperous exclusively-or when, if owned by a person of moderate means, and employed otherwise than in some regular business, its possession was held to indicate spendthrift habits-is rapidly passing away.

The multiplication of great establishments for the manufacture of automobiles has proceeded so rapidly and the number of machines turned out by them annually has become so vast, that the "upper ten" in society can no longer afford a sufficient market for the product; and manufacturers are turning their eyes toward the "middle thousands." There after all, in supplying the needs of the farmers and middleclass townsmen, they are to find, hereafter, their largest rewards.

A Moderate Figure

One great multi-millionaire corporation in the United States already announces for sale a "thoroughly capable" guaranteed car, rubber-tired, and "with a power plant that will run 35,000 miles" for \$350-a figure which approximates the cost of a good "horse and buggy" such as almost every farmer has looked upon as entirely within his means. It is practically certain that the rivalry between manufacturers will lead to the immediate offering of even better cars for the same money, or of similar ones for a lower price.

The farmer, then, finds himself now the heir and beneficiary of one of the most beneficial and revolutionary inventions of the age. He is to be the beneficiary of all the experimentation which has been done, at the expense of the rich, in perfeeting and developing the "auto." The "devilwagon," which he has been wont to call the swift machine which scared his horses and made the roads so often unsafe for him, is transformed by the progress of manufacturing ingenuity into the vehicle of a good genius, with which-if he cannot like Puck, "put a girdle round the earth in 40 minutes,"-he can at least hie to his market town and get home again in minutes where it before took hours.

It will also enable him to do an amount of pleasure-traveling, independently of the railroads, such as was before a practical impossibility. It will also by practically bringing the farm closer to the market-and by giving in many cases a choice of markets tend greatly to increase the value of outlying farms.

It was entirely natural that manufacturers should first cater to the class having the most money to spend, and that they should bend their energies to the production of vehicles which would from the pockets of that class, for the time being, extract the largest prices. But now that they turn to the "market of the millions," they will find its opportunities incomparably greater than those afforded by "the market of the select few."

(6) 790

************** The Makers' Corner Butter and Cheese Makers are in-vited to send contributions to this department, to ; sk questions on tuntters relating to cheese making a. 3 to suggest subjects for discus-tion.

Butter and Cheese at Toronto

THERE were new records estab-lished at Toronto last week; butter entries showed an in-crease in number of 33 per cent, over crease in number of 30 per cent. over the best previous year, while cheese entries were even more numerous. A regretable feature of the butter Classes, from the standpoint of On-classes, from the standpoint of On-the prize more what practically all the prize money what practically all bec or the prairie provinces. One factory only in Ontario won and it, is significant that this one factory



MAKE YOUR BIKE A MOTORCYCLE Det & standt over by soling, our discon-transformer and the soling of the work of the soling of the

SHAW MANUFACTURING CO., Dept. 138. Galesburg, Kan., U.S.A.

WANTED to hear 'rom owner of good farm for sale. Send cash price and description. - D. F Bush, Minneapolis,



was the only whole milk creamery among the Ontario competitors. All the Quebee creameries that stood ligh were graded cream factories. The same is true of the western ex-hibits. The lesson is plain-Ontario producers must be induced to take better care of their cream or the Ontario creamery man will be unable to sell his goods on a high class mar-

The quality of all the butter that won any of the five awards for each class was wonderfully high and uniclass was wonderfully high and uni-form; as good that it took the judges three days to complete their work. The highest score of all, and the one that secured the trophy, was 07.878, and the lowest score in the money 19.620. All the awards were within these narrow limits. In many cases, there were ties and the award was generative the stand the award was and the lower on the stand the stand Thorn flaver.

tion. It cannot be said, however, that the quality was as good as last year, which was a record year in this regard. Some rather inferior cheese from Quebec and the disqualification of all of one maker's exhibit, tending to lower the general standard. to lower the general standard. Awards in full follow:

On the series of the series of

Digs 5 Ft. Deep

USING ONLY TWO HORSES



GEORGE DAWSON, Inventor & Manufacturer, NAPANEE, Ont.



The Working Staff at Finch Set an Example in Cleanliness. The factory and its surroundings are scrupulously clean. The makers are so garbed to handle an assily contaminated food product. In the illustration, Reddick, the manager, may be seen, to the right.

H. Stewart, Hamingford, Gue, 8663; 5. milk or cream, to iron results in the R. Peroux. Routesaux. St. Goregne, 8663; Unsatted sreamery noids: 1, Achille Pour-formation of metal sails in the main state and the state of the state of the state of the state state. Also, 2017, 22 Web, 2017, 201

95.37. Creamery, 19 1b. boxes: 4, Canadian Milk Products Co., Belmont, Ont., 97; 2, Adgutor Servalu, St. Hyaointh, Oue, 95,675; 5, Clov-is Lemay, 8t. Henndine, 96,785; 4, Eugene Moreau, 8t. Gedoon, Que., 96,375. 5, M. Weir, Winnipeg, Man., 96,378.

Farm Dairy Butter.

Parm Dairy Boster: 20 lb across 1, Miss L B. Gregory, II. dorton, Ont., 82,35 J, Mrs. Wn. Olarison. Weston, Ont., 83,53 J, Mrs. J, A Terrill, Lound S, 233, 4 Mrs. J. A. Dikon, Gwen Ont., 92,56 30 lb, horz: J, Mrs. Oharles Grombie, 30 lb, horz: J, Mrs. Oharles Grombie, 30 lb, horz: J, Mrs. Oharles Grombie, 30 lb, horz: J, Mrs. Oharles J, Combie, 30 lb, horz: J, Mrs. Oharles J, Mrs. J. A. Terrill, Lindsay, 9432 (4 Miss L. D. Gree-ory, 9453; S, Mrs. Robert Handry, 8478 4, Mrs. Betton, Darbridge 9, 314, Mrs. J. difference J, Mrs. Grant, 94, Mrs. J. difference J, Mrs. Bart, J. Mrs. J. Bart, Bart, Grant, Gart, 93, 50 Bernar, B. Roedino, Our J, S. Janne, J. J. Broedin highest average sorre: J. Govis Empary, 84, Recalino, Our J, S. Janne, J. J. Bartar, M. Recalino, Our J, S. Janne, J. J. Allarry, 84, Roch, L'Achingan.

Cream Tests Vary

REAM shippers, whether they be creamery patrons or city producers, are prone to doubt the tests with which they are credited by the butter maker or the dairy company. Occasionally the testing may be at fault, but as often as not the test of cream varies widely from day to day as it leaves the patron's promises. B. A. Reddick, manager of the Dominion Dairy Station, at Finch, Ont., dem-onstrated at a short course held at the station last winter just how cream

ests may be made to vary. Mr. Reddick took three lots of the ame milk. The milk of one lot was same milk. The milk of one lot was brought to the proper temperature, separated at the proper speed, and a fat test of 18 per cent. gotten. A test of the skim milk showed that it was clean skimmed. The second lot of milk was then separated at a lower rate of speed than that stipulated by the manufacturers of the separators. The cream tested 15 per cent. fat and the skim milk showed a fat content of .03. The third sample was then taken and separated as cold as it might be when let stand over night, -about 62 degrees. The cream resulting test-ed 41 per cent., and the skim milk showed a test of .23. This demonstra-This demonstration showed the students in attendance more clearly than any amount of talk might have done, just how the test of cream may vary and no "crook-ed work" by anyone.

Rusty Tinware

THE effect of the use of rusty tinware on quality is probably both direct and indirect. There is reason to believe that the exposure of And it is certain that a milk or creater of the second sec

September 9, 1915

Possibly where the haul betw farm and factory is short and milk cream is not long in the can rust on the cans will have no a ciable effect on the resulting b providing cans are thoroughly ed, but cans rusted inside are a thing to avoid and we believe it omy to discard them as soon interior begins to show that ned surface has been worn off. with open seams are certainly not i to use as carriers of milk and creat and these should either be rest or thrown out.

The exterior surface is not so is portant, but it detracts from the m pearance of a creamery plant to ha pearance of a creamery plant to an milk or cream arriving in rusty a badly worn or disfigured cans. We would urge the purchase of head tinned cans rather than resort to this may be a good plan where m is not cooled by placing the case water. A thick coat of paint we then tend to retard the cooling. Y. Produce Review.

Risk With Cheap Seed Com

B^{AD} germination in seed con combined with prolonged col weather at time of planting has been the cause of much disappoi ment this season to ensilage grower The seed corn growers of south-we ern Ontario were almost equally di appointed through being unable h find a market for their thoroughly dried corn of strong vitality. Man samples were taken by seed inspector and the investigations made indicate clearly that at least 75 per cent of the cause for a poor stand can be traced to the ensilage growers buying low-priced seed.

Unfortunately high-priced not always a guarantee of high qua ity, but low-priced seed is possible only with corn that has had no sp care in curing for seed. The fam who gets \$1.50 per bus, of 70 lbs. The farm the ear for corn taken out of his c crib in the spring has more profit that the farmer who receives \$2.50 a but of 70 lbs, on the car for corn that h been kiln-dried or rack-dried in spi cial corn-drving buildings.

If harvested in dry weather and kept in narrow cribs through the winter, the chean corn may give a winter, the chean corn may cire is fairly satisfactory stand of plants with thick seeding and good soil and we ther conditions. But too many fare-ers have learned to their sorrow the very serious risk they take in using corn wintered in this way. It is a in to believe that the exposure of ways advisable for growers to pre-or cream, and especially sour cure seed corn on the ear.

September 9

More Co

A Splen

HE Ayrshire at Toronto. and competi for some years. comparatively ne brought out their shape, and secur the prize money money was more is usually the cas R. Ness was not milk as the Bur is, and this cont wider distri Senator Owens, o had along a nice first in both mi Hume was a stre most classes. In fa to be growing str The herds of E. D ville; Laurie Bros S. Turner & Son ners, were all rep ribbon class. W.



The really sensational champion female, here vantage, with all kir

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till along with his l as had a wonderful

ibitor of Ayrshries.

Campbellford, had

The aged bull class r some years, there ies and all good one

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de Peter Pan, a gos tting better all the ros., in third place, h oking animal. Two

al, were not a par ss. Owens getting fi Lochinvar. Laurie

yearlings with a g mal. The senior ca

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his class of junior ch

nger classes all had

tiful feature of the oronto, or any fair is the wonderfully sing classes of mat ales. The milk class

the writer's

The Milch Co

Stewart,

And Wm.

September 9, 1915

VARM AND DAIRY

is usually the case with this breed. R. R. Ness was not so strong in cows in milk as the Burnside entry usually is, and this contributed in part to the wider distribution of money. the wider distribution of money, Senator Owens, of Westmount, Que, had along a nice string, and secured first in both milk classes. Alex, Hume was a strong competitor in most classes. In fact, this herd seems to be growing stronger every year. The herds of E. D. Hilliker, Burgess-The herds of E. J. Hunker, Burgess-ville: Laurie Bros., Malvern, and A. S. Turner & Sons, Ryckman's Cor-ners, were all represented in the red ribbon class. W. H. Tran, Cedar

A spieloud Snowing with New Exhibitors in the Field. THE Arrishic was well represented and competitions was keener than and competitions was keener than for some years. Exhibitors who were comparaitypic Exhibitors in good dupe, and seener than in the show-ring tags, however, had the champion in dupe, and seener that is good dupe, and seener that the prize money was more evenly divided than the prize money; in fact, the prize money was more evenly divided than the prize money in fact, the prize the prize money in the prize the prize the prize the prize money in the prize the 9th, she carries wonderful size with ideal dairy and breed type. If anyideal dairy and breed type. If any-thing, the dry class taken as a whole was superior to the milch class, but, of course, not showing to such good advantage. Auchenbrain Hattie was advantage. Nucleonorali riatite was finally selected as grand champion. The junior champion was also from the Nešs herd in Burnside Maggie Finlayston, 5th, a senior yearling

All classes were worthy of fuller mention than we can give them. On the whole, Ayrshire breeders should be well pleased with the showing made by their favorites. The success of The success of comparatively new exhibitors should

10 - 市市 藏白

Auchenbrain Hattie 6th, a Dry Cow but Selected for Champion Nevertheless Automotorian Plattle son, a Dify Cow Dat Detected for Champion reverturing The really semantional Ayrahire exhibited at Toronto, was the senior and grand champion female, here illustrated. Although a dry cow bies showed to splendid ad-raniage, with all kinds of substance and breed quality. Owned by B. R. Ness.

rove, made his appearance at Tonove, made his appearance at To-monto for the first time, and did well, and Wm. Stewart, of Menie, the astriach of Ayrshire breeders, was till along with his herd. He surely as had a wonderful career as an exas had a wonderful career as an ex-ibitor of Ayrshries. Mr. McCowan, f Campbellford, had a single entry. The aged bull class was the largest. some years, there being six enr some years, there peing six en-jes and all good ones. Masterpiece bin won first and championship, but thad a good second in Hume's Hill-de Peter Pan, a good bull that is thing better all the time. Laurie in blied alloca has a way milley ting better all the time. Laure ros., in third place, has a very milky oking animal. Two-year-o'ds, as ual, were not a particularly strong ss. Owens getting first on Nether-Lochinvar. Laurie Bros. had first yearlings with a growthy, milky mal. The senior calf award was a prise to some, the Ness entry, nside Invincible Masterpiece, be-younger and therefore much aller than some of the other en s. He was quality all over, how r, and John McKee, of Norwich 7, and John MCREE, or Norwicz, o placed the awards, could not well e passed him over, either for first his class of junior champion. The nger classes all had 10 or 11 en-

The Milch Cows

o the writer's mind, the most utiful feature of the cattle judging foronto, or any flair for that mat-is the wonderfully uniform and ing classes of mature Ayrshire les. The milk class brought out

be encouraging to others who would like to exhibit but have heretofore held back. Judge McKee placed his awards consistently and gave general satisfaction

Ayrshire Awards-Male

satisfaction: Arabiev, wards-Maie. Build, ark, and over: 1, Hobsiand Kas-strates, T, Milado Peter Pao, argringhil Cashier, sine, Lae Verse, 14 Build, ark, 1, Netheron Bodieraris, Hill, Str. 1, Netheron Bodieraris, Hill, Str. 1, Netheron Bodieraris, Buil, ark, 1, Aritrive Milanan, Lauris, Buil, ark, 1, Aritrive Milanan, Lauris, Buil, ark, 1, Aritrive Milanan, Lauris, Buil, and Cashier, Burnatis, Hume, 5, Buil, and Cashier, Burnatis, Hume, 5, Buil, suidor ealf, 1, Bartsheak Bortindou wares, 4, Ross Kape, Hills-ward, Strate, 1, Haather King of suidor and 1, 1, Bartsheak Ming of Milana, 1, Haather King of State Strategy, 1, Haather King of State Strateg

Ayrshire Awards	
Cow, mature, in mill Montebello, Owens; 2,	of .
Hume: 5. Mountain Law	4th.
choskie Royal Rose, Near	- Bar-
Cow, 3 yra., in milk: 1.	Tiplet of

Bros. Gow, 3 yrs. and ov.v. in calf, not milk me: ... Autorburain Astito (61). Noss: 2 Noss: 4. Spice Lass, Birne, 1 Heifer, 3 yrs. 1. Daithble Jennin Jane Heifer, 3 yrs. 1. Daithble Jennin Jane G. Noss: 8. Bessio of Mapiodaio. Hilliker, Dorseen of Epringhank. Turner: 4. Heifer, men Foloy Kate, Hume.

More Competition in Ayrshires at Toronto A Splendid Showing with New Exhibitors in the Field. THE Ayrshire was well represented 12 entries, all good, but the first four

Laurie Bros. 4. Humeshaugh Nan Ind. Henne. Helfen, senior caff. J. Humeshaugh Per-sten and State Park Laure Per-tenness and State Park Laure. 4. Borightly's holl'sufficient filter end to the senior caff. Jamis Benarits, 4. Burightly's holl'sufficient filter end the senior caff. Jamis Benarits, "The Filter Jule State of milk: 1. Dalibble Bense Drummend & yf milk: 1. Dalibble Bense Drummend & Agrabire Mary of Humy Pork, and champion: Anchen-rain Hattie 6th. Ness. Drumf And J. Ness. 2. Owner, S. Hume; Tunior Bend I. Ness 3. Dwens; J. Hume; Tunior Bend I. Ness 3. Dwens; J. Sume: J. Danis Bend I. Ness 3. Summer 3. Owner: J. Danis Bend J. Ness 3. Summer 3. Danis Bend J. Summer 3. Danis Bend J. Ness 3. Summer 3. Danis Bend J. Ness 3. Summer 3. Danis Bend J. Su

Like an Hour Glass

Nellie-Is that fellow of yours ever bing to get up courage to propose? Belle-I guess not. He's like an ur-glass.

Nellie-An hour-glass?

Belle-Yes-the more time he gets the less sand he 'as.-Philadelphia "Times."

sie Finhayston 63, Roon: Bernside Mar-Graded herd: 1, Ness: 2, Owens: J.Rune: A market Andrew Statumer, S. Kaurie Progeny of cow: 1, Ness: 2, Turner, 3, Laurie Progeny of cow: 1, Ness: 2, Turner, 3, Laurie Progeny of cow: 1, Ness: 2, Turner, 3, Laurie Progeny of cow: 1, Ness: 2, Turner, 3, Laurie Bros, 4, Huma.

The Advantages Of **Our Dual Ignition**

You can start the engine on the batteries and then run on the high tension magneto.

You can start on the magneto and run on the magneto. You can start on the batteries and run on the batteries. The duel ignition system of the



is simply two independent ignition systems which can be run entirely separate from or in combination with each other. This is the ideal system. It insures you against delays or loss of time, if the batteries get exhausted, you can start and run on the high meanion magnetic. If anything should happen to the magnetic, you can operate on the batteries.

This dual ignition system is only one of the many outstanding features of the Renfrew Standard gasoline engine. Others are de-

All sizes from 12 h.p. to 60 h.p. High-grade, lever type friction clutch pulley supplied free with engines of 6 h.p. and over.

Grain-grinders, saw frames and B. Bell & Son ensilage cutters supplied at reasonable prices.

The Renfrew Machinery Co., Limited Head Office and Works: RENFREW, Ont. Agencies Almost Everywhere in Canada



Humeshaugh Springbank, Turner; 4. Humeshaugh Spicy Kate, Hume. Heifer, senior yearling; 1. Burnside Mar-gie Finlayston 5th. Ness, 2. Lola of Spring-

ber 9, 1915

canliness

on results in the salts in the milt sly affect flavor t a milk or cream th inside, is far ar more likely a

in the can son have no app resulting but horoughly cle nside are a got e believe it econ ow that the ti worn off. Cas certainly not f milk and crean ner be resoldere

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akers are suitable illustration, B. J.

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p Seed Com

nsilage growen s of south-west ost equally dis eing unable a eing thoroughly seed inspector s made indicate 75 per cent of stand can be

priced seed is se of high qual-ed is possible s had no species. d. The farmers, of 70 lbs. of out of his o't more profit that es \$2.50 a bus r corn that has

mgs. r weather and through the rn may give a d of plants with d soil and weatoo many farm take in using way. It is alrowers to proear.



FARM AND DAIRY

Patriotic Year at the Canadian National

(Continued from page 2) Wright. Lincolns brought out three flocks and Hampshires and Suffolks two each.

Swine

"A regrettable feature of the swine exhibit," remarked a well known stockman, "is the weak showing made by exhibitors who were once pro-minent." He seemed to be right, and on the whole the swine were not as good as they have been on some previous years. Berkshires were of most uniform high quality, and made fine showing from such herds as P. W. Boynton & Sons, H. A. Dolson, W. W. Brownridge, Frank Teasdale, and S. Dolson & Sons. Yorkshires chores Berkshires were of

Yorkshires showed strongly in some classes, but on the whole were not so good as they have been. principal exhibitors were J. Feather-ston & Sons, Jno. Dack, Wm. Man-ning & Sons and J. E. Brethour & Nephews, Tan.worths also were weak in numbers, D. Douglas & Sons, in numbers, D. Looignas & Jons, Mitchell, being the principal exhibit-ors. Chester Whites made a strong slfdwing from the herds of Wm, Roberts & Sons, W. E. Wright and Daniel De Courcey. Hastings Bros. monopolized the Hampshire classes.

Dairy Cattie

These sections are reported fully elsewhere, so far as the three lead-ing breeds are concerred. In addiing breeds are concerned. In addi-tion to these, a few Guernseys were shown by Curtis, Heaslip & Son, Fenwick, and a couple of herds of French Canadians. There were several strong classes of dairy grades. The dairy exhibit was the finest ever seen at Toronto, and one of the big features of the fair, agriculturally speaking.

From a Farmer's Notebook By "Fergie"

I ALWAYS find it pays to feed as well balanced a ration to a heifer as to a cow in milk. The young cow is forming tissue rapidly, and I find you can grow a better cow during the first two years' of a calf's life than

nrst two years' of a call's fife than in all the time after that. If you have a heifer that is ner-yous you will be surprised to find what a wonderful soothing effect it will have on her to be scratched between her fore legs.

The well-fed, well-cared-for heifer literally grows into money, so let us have heifers that are worth raising, and then treat them accordingly. The heifer becomes a cow at two years, and is then or ought to be, self-supporting.

Be careful not to dry the young cows in milk when stabling them for cows in milk when stating them for the winter. Milk them clean; pamper their appetites, and be very good to them. If they will milk right through to calving all the better. A heifer easily learns to dry off early, and will When ever after remember the trick. mature she will be a source of profit, eleven months in the year when she would be kept at a loss if dry three

to five months. You can't win a heifer without woo ing her, and unless you woo her there is trouble ahead. Pet her every day

Removers Bursal Enlargements, Thickneed, Swollen Tissues, Curbs, Filled Tendons, Sore, res from any Bruise or Strain, Does not Blister, remove the bair of lay up the horse. \$2.00 a bould delivered. Book I K free. **BOSORBINS, JR., the antispel enla**, **BOSORBINS, TR., the antispel enla**, **BOSORBINS, TR., the enla the day time. BOSOR Enla**, **BOSORBINS, TR., the enla the day time.**

place again at in this case the t sily earned, his entry udder develo to lack in de in milk Hic t showed lots the lines, either the s And so we n making men They constit ever seen at that Holstein bi for their ever befor dly as ever befor ehampionship of Bonhur Flower, ec cow was first in t ning before the cl , showed to splend over Beile Tensen ress. She is yet a her excellent lines again in ther yet

Hostein Award Holstein Award Bull, 3 yrs. aud ovor: 1 laier Bros.; 2, Hillerest techen: 3, Primee Ak Leer, 4, Homestead Colas ry, Wateor, 5, Segis D Inderne King May Fa, Bull, 3 yrs. 1, Lakevie evreid 2nd, Bulley; 2, F wash, Manor Farm; 3, Prashr, Clarkson; 4, Pr sherk, Hulet.

Hulet. ch, Huilet. J. 1yr.: J. Woodlast, J. 2yr.: A. Holorest He-gen; J. Millorest He-gen; J. Sir Calamit m; 6. Sir Pontiae I. senidr calf: J. P. Haley: 2. Korndyp ze Mercena Alfaret iao Lad, Relly: 5. Segis tt

Aellatt. Ball, junior calf: 1, Ki ey Bros.: 2, Bonheur F , Meadowview Dot Abb forest Eldge Fayne Ar rey Posch, Pellatt; 6, B

hy. I, senior and grad Fayne, Haley Bros I, junior champion and, Haley Bros. Bull,

Harand, Haisy BPOS. Holstein Female Cow, 4 yrs. and over, Tensen, Robins: 2, Rauw Lady, Brethen: 3, Anne st: 4, Queen Wilhelmins Francis Schwilting, Hale pie Drment.

by Byrnent, low, 3 yrs. old, in m dge Butter Girl, Robi tha Mercena, Hulet; sch, Haley Bros.; 4, 3 Manor Farm; 5, Lad

ng Heifer, 2 yra. in mill belle May, Hicks: 2 and fayne and Nettie Payne I, Lady Pauline Colanti unha Fayne Dewdrop, Baby Posch De Kol, Bo laip Posch De Kol, Bo Heller, 2yrs., not in r trile, Pellaitt: 2, Paforit Hoka; 3, Hillcreet King Brothen; 4, Daiay Faynes J. Lady Koyes Mercean Relettic De Kol, Dyna Holstein cow, 3 yrR., 10 Milling: 1, Room Bo Goweize Columbia Posch John; 4, Grace Fayne Ross; 5, Hillcrest Honge Ben; 6, Tilly F. De Ko Heiler, senior y yearHing en 6. Tilly F. De Hall Heifer, senior yearling iss Aagrie Fayne, Hale seo Seris, Holtby; 3, ercena 2nd, Hulet; 4, 3 as, Manor Farm; 5, Le Hicks; 6, Forest Bida

er junior yearling Ormsby, Hulet, 2, d. Cooper; 3, Qu e: 4, Forest Lagr ; 5, Queen Colan 6, Pauline Cals

ifer, senior calf: 1, 1 s: 2. Pauline Colan uline Baroness, Hu

followed the judging, and itted frank-ly that while they have one show where entries are more numerous, that at Syracuse, the had never seen the equal in unity and high quality of the and white dishigh play at Toront Altogether there were 260 entries from 28 herds. This In one class, institutes a record.

on

constitutes a record. In one class, that of junior yearling heifers, there were 31 animals brought before the judge. This also is a record. In practically every class there were more than twice as many entries as more than twice as many entries as there was money provided. Some of the exhibitors had long strings with entries in almost every class. From Haley dros. with their 25 head, num-bers dwindled down to R. J. Kelly, who sent along one dry cow with his neighbor. Low Ling:

HE Canadian National Exhibition

now stages the finest exhibit of

Holsteins ever gathered together the American continent. This

may seem a large claim, but it is true. Visitors from the United States, who

neighbor, Lew Lipsit. It is not for number of entries however, that the Holstein breeders of Ontario (for it was purely an Onario showing) deserve most credit. The improvement in quality was the outstanding/feature. Five years ago an average black and white class at an average black and white class at Toronto would have in it individuals of every size, shape and form. The cattle exhibited this year ate of prac-tically uniform type. True, there were a few raky individuals and an order word where here were very ill-shaped udder, but such were very much the exception, and Prof. H. Barton, of Macdonald College, who placed the awards, never allowed them to get within the money. This wonderful improvement in such a short space of time is a tribute to the power of intelligent breeding to mould ani-

mal characteristics. Those Who Were There

A full list of exhibitors is as fol-lows: Haley Bros., Springford; Robt. Shillington, Hatchley: Elias Snyder, Burgessville; C. C. Kettle, Wilson-Shillington, Hateney, Kettle, Wilson-Burgessville; C. C. Kettle, Wilson-ville; R. & J. S. Watson, Pine Grove; Dr. A. A. Farewell, Oshawa; Wm. Manning & Sons, Woodville; Sir H. Multi, Toronto; R. M. Holtby, M. Pellatt, Toronto; R. M. Holtby, Port Perry : Fred Row, Currie's Cross-Fort Perry: Fred Row, Currie's Cross-ing; G. A. Brethen, Norwood; L. H. Lipsi, Straffordville; Geo. T. Prouse, Ostrander; W. G. Bailey, Paris; E. C. Chambers, Hatchley; Hiram Dymont, Dundas; Manor Farm, Clarkson; Norman P. Clark-

Entries Total 260 Animals from 28 Herds son, Islington; A. E. Hulet, Norwich; C. C. Haviland, Wilsonville; F. B C. C. Haviland, Wilsonville; F. & Robins, York Mills; J. C. Beed, Toronto; Arthur Kelly, Vanessa; W. G. Hill & Sons, Queensville; R. F. Hicks, Newtonbrook; Geo. Coope, Willowdale, and R. J. Kelly, Culloin

The Male Classes

Space is lacking to make more that general mention of the awards in ead section. The uniformity in type up Haley Bros. came out most striking. frequently with the red ribbon. The frequently with the red fiboon. In grand champion of the show we their Sir Belle Fayne, a beautiful well finished hull with lots of sch bull was champion at Ottas fall. Hillcrest Ormsby De Ka This last fall. in second place in a class of 13 matu in second place in a class of is man bulls, was a rangier fellow. It shull be noted here that the exhibitor of this bull, G. A. Brethen, of Norwal is one of the first exhibitors from the Belleville district, and his succe should encourage others of that gra Holstein centre to come out in it show ring. The best two-years show ring. bull, Lakeview Dutchland Hear veld 2nd, exhibited by W. G. Bale was identical in type with Sir Be Fayne, as was also the junior da pion, Prince Fayne Harland, also Hulet # hibited by Haley Bros. first in yearling bulls with a promi the male classes, Oxford county " proud." itself It was notice throughout that the younger the the more uniform it was and the m breedy its appearance; a tribut the skill of Ontario's Holstein by a tribute

in the Female Classes

ers.

The same general comment can made on the female as on the n classes: The younger classes more uniform and breedier. All very large. In one class of 31 th were many outside the money were good enough to win in st company. Sloping rumps and in once so common, have udders, once so been largely eliminated, there was room for improvement

few of the entries. The aged class brought out a line of cows and a couple of a ones. Bell Tensen, champion ones. Bell lensen, champes western Canada a few years a champion butter maker, and se the Hardy sale a few months a a record high price, won first for her owner, F. B Robins. is a grand deep cow, well const and well uddered. Second to be

September 9, 1915

th fresh cows

Count De

oduced 26,000 lbs.

at 10 months, but y

th of these cows can

andards and produci

Three-year-olds were

Brethen, a

This cale of the firs



A Holstein Bull Typifying the Best in Show Yard Type. All prize bulks in the Holstein classes at Toronto, were venarkably alie a type. Compare the type of this one, the first prize two-year-old exhibited by W. G. Bailey, Paris, with that of the grand champion Holstein make which will be it trated in Farm and Dairy next week. Holsteins Make Great Showing at Toronto



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ABSORBINE Removes Bursal Enlargements.



September 9, 1915

ouwerd Count De Kol Lady, ex-ibited by Brethen, a cow that has roduced 26,000 Ibs. of milk in the st 10 months, but yet showed well sh cows. This cow had hard-ale of the first placing. That h fresh cows th of these cows came so high is a and of a corrolation of show ring ndards and producing type.

he first place again went to Robins, in this case the title was not so earned, his entry having almost earned, us early using mal udder development, but ap-ag to lack in depth. In two-olds in milk Hicks won on a the lines, but hardly so either the second or third And so we might go on in-making mention of great here and there, but space They constituted the finest ever seen at Toronto, and that Holstein breeders are alive for their breed as enerever before.

by as ever before, homosenthe of the show fell to mean Flower, exhibited by Huke, was first in the dry class and, ne before the championships were showed to splendid advantage. She or Beile Tensen on quality and shi a syst a your cow and, shi a syst a your cow and, and in the years were listen a waved. Mat

tens same in : ther y form. Hoistein Awards, Mata Jul, J yrs. and court : A fir Reite Parses, inches and the same same same same in the same same same same in the same same same gradient in the same same same y manor. So grad Da Kot, Bullart & Bull, 2 yrs. 1, Eakwiew Duichland Hen-yerel and, Bulley & King Sogie Dontiane Bash, Manor Parray, A Frince Mersema Bash, Manor Parray, A Frince Mersema Bash, Manor Parray, A Frince Mersema Bash, Manor Parray, A State Southas Ab Samer, Ruite.

Ag. Cincheon; 4. Primes Collastina Ap-ch. Hulet. h. 1 yr. 1. Woodiawn Count Canary, i. Colontha Fayren Butter Baron, hon; 4. Mendowriew King Abhekork, ser. 5. Sir Contanty Mercema Scott, m. 6. Sir Contanty Mercema Scott, Baenicr calif. 9. Primos Payron Har-Rachter Calif. 9. Primos Payron Har-Rachter Calif. 9. Finade Payron Har-Rachter Calif. Scott Application Scott Barbard, Scott Scott, Scott Barbard, Scott Scott Scott Scott Merce Merceman Scott Scott Scott Merce Merceman Scott Sc

Nellatt. Bull, junior calf: 1. Kitobener Gans, Ha-Bull, junior calf: 1. Kitobener Gans, Halet, 4. Madowview Dot Abbekerk, Prouse: 4. Aurest Bidge Fayne Artis, Lápeit: 5. Os rey Posch. Pellatt: 6. Roan De Kol Segis.

y, senior and grand champion: Sir Fayne, Haley Bros. I, junior champion: Prince Fayne and, Haley Bros.

rand, maky Brok. Hotstein Femäle Awards. ov, 4 yrs, and over, in milk: 1, Bell sen, Robins: 2, Rauwerd Count De Kol fy Brethen; 3, Annette Abbekerk, Hu-t, Queen Wilhelming, Robins; 6, Lady meis Schwiling, Haley; 6, Bonny Sta-Dyment.

a Dyment. Cow, 3 yrs. old, in milk: 1, Glenwood's edge Butter Girl, Robins; 2, Pauline Col-tha Mercena, Hulet: 3, Ethel Mercena sch. Haley Bros. 4, Manor P. H. Flow-, Manor Farm: 5, Lady Mercena Schuil-

r. Maor Farm: 4. Lady Mercena 80001 Bailor, 5 yra, in millt, 1. Patorieroto Bailor, 5 yra, in millt, 1. Patorieroto Marking, 1. Status, 1. S hand separators there is no difficulty in providing the sweet milk for calves; morning and evening. but farmers who patronize whole-milk creameries or who still skim by hand should remember that after the first few weeks utilk for calves should either be thorough sweet of tulk sour, the the half-sour stage. If milk is fed to calves whon it is in this chancine condition it is almost cer-tain to cause indicestion. It should

the other.

Clean feeding pails must be used, otherwise the germs of fermentation and diarrhoea will be brought to the infant cow from the slime of the dirty

drinking dish, and with young calves it is important that the temperature at which the milk is fed he nearly that of the body. Older animals may r.

Juni r. yearling 1. Countess La-mabr. Hules, 2. Acttis Tenson Hen-Cooper: 5. Queen Artis Bell, 4. Forest Ladge Fayne Calamity, 5. Queen Colantha Logne, Haley Pauline Calamity Hengerveld, and the second regret for the second regret in the temperature of the hody. Older animals may re-terior milk of the hody. Older animals may re-terior milk of the temperature of the facts. 3 Paulies Colamba given a training the temperature of the facts and the colamba given a training the temperature of the factors and the tempe

 Hicks. Senior and grand champion: Ress Bon-heur Flower. Hulet; (This cow calved af-ter the judging is her class, and was given the ohampionship.) Junior champion: Miss Aaggie Fayne, Wahen Bress. Junior cha Haley Bros.

Julinov dos. 2019. Anno Angpo revolut, hiero the Torong Averandi, Gradedo hordi, J. Haloy, S. Brethens, S. Three astimatic, part of starts, J. Baler, Buber, S. Hieles, A. Lipsti, S. Brethens, Yang Allmaha, Porteny of cover, J. and A. Janico hordi, J. Haley Brees, T. Ruber, Janico hordi, J. Haley Brees, T. Ruber, Janico hordi, J. Haley Brees, T. Ruber, J. Brethen, J. Lipsti, S. Bullington, T. Brethen, J. Lipsti, S. Bullington, Three hordi antimals, et of one site 11, Haley Brees, Z. Hickey, S. Brethen, S. Lipsti, H. S. Bulley.

Calves in First Summer

By R. M. Washburn THE first year of a call's life is the most important with respect to its vrowth. Unless animals are kept growing during this period their final development will be much re-tarded, and the chances are they never

The strain of th

Nuggets of Jersey Lore

Geo. Laithwaite, Huron Co., Ont.

I F we want to develop our Jersey breed we should be very careful when we sell a young bull to head a herd. We should not sell to others what we would not see to occels. In fact, I believe all young buils should be inspected by a groad inspector as to breeding, health and individuality before allowing them to be sold to head a herd and then pass from one head to remain a second between the second to be and the second between the se

herd to another. It would be a great help to breeders if our experimental farms and our

The cow is Makame Posch, grand champion at Terrotio in 192 A. 2. Hulet, who exhibited her: them, sold her to the Coleny Farm, and from there the was sold for \$1.25 to H. Alliker Thompson, Buwdker, B. C. who may be seen holding ther. Last November Makame Posch and her daughter, Makame Bessien and the the so-to the Colony Farm for a prior number of \$2.00 for the two. will reach the scale which their in-heritance would give them. On the best regulated dairy farms professors would spend some of their time investigating breeding work. A great deal of their time is spent in On the best required with the antumn and early winter, and they should receive skim milk in moderate quantities through much or all, of the summer following birth. On farms having hand separators there is no difficulty hand separators there is no difficulty

great deal of their time is spent in producing new grains, fruits, etc., but the work I have suggested is more im-portant. A knowledge of pedigrees and the crosses practiced by our pre-decessors would show us how to keep clear of failure

We often hear the question asked, "Why are the American bred Jersey cattle larger and coarser than the Island bred cattle?" The climate of teind hred estble?" The elimate of this contry, the exercise of hunting food, the rough good consumed and the rough usage, all tend to make the second and third generation larger. I have heard it stated by a prominent breeder that mixing with other large estile would tend to produce coarse-ness. Whether this he so or not, I ad the American testic, howe their size a good fault as no Island record can come near them. tain to cause indigestion. It should not be half sour, uor sour one day * and sweet the next, but always one or can come near them.

When we consider the great work we expect our Jorseys to do, they must possess strong bodies and great brain and nervous force. To raise a ewe of shis kind is a bigger undertak-ing than most farmers hink. I have seen several dairy farmers buy a dairy bred young animal, let her take pot look the same as their grade over, but they expect a lot more of the

ther and milk without leed. Ine re-sult is she contracts some disease and dies; actually from starvation and neglect. These men will say the Jer-sey is no good; but in reality she is too good for them and that is the

Jerseys at Toronto

ERSEY entries at Toronto lacked just two of making 100. B. H. Bull & Son, of Brampton, were predominant in numbers and win-nings, getting both male championships and the senior and grand cham, pion female championship. Their stock came out in fine shape, and numbered many choice specimens of Island and Canadian breeding. This herd had one disappointment when their old and well known sire, Sultan's Raleigh, was given second place to Fleming's Clyptha's Majesty. The Fleming herd, however, was not as strong as last year, the pick of the herd being still at Chicago, as a result of the quarantine against footand-mouth disease, following the National Dairy Show. Herbert Colton, of Humber, entered the lists for the first time and got in the money or, several occasions. Ira Nichols, of hist time and got in Xichols, of Woodstock, made just one entry, and with it won the junior female cham-pionship. Wm. Hunter, of Grimsby, placed the awards, which follow in full:

Jersey Awards, Male,

Bull, mature: 1, Clyptha's Majesty, Flem-ing; 2, Sultana's Raleigh, Ball; 3, Bramp-ton Mayor Lila, Colton; 4, Calendar, Flem-

100 Hayor Lang Construction Bull, 2 yras. 1, 3 and 4, Burma Knight, B. Ooklen Noble and B. Boyal Favor. Bull; 5 (Dyplias Knight. Bull, searling; 1 and 2, B. Ecckettes Dorg. Prince, Colton. Ban, Bull; 5, Gam-boge Prince, Colton. Bull, 3 Flem-ture.

ing. Bull, junior calf: 1, Bull; 2, Fleming: 3,

Senior and grand champion: B. Burma Knight, Bull.

champion: B. Rochette's Heir,

Jersey Awards, Female.

Cow, 4 yrs. and over, in milk: 1, 2 and 4, B. Bright Dutchess, B. Patricia and B. Marcia, Bull; 3, Belle of Jersey, Fleming. Cow, 3 yrs. in milk: 1 and 5, B. Indy's Sultan and B. Sandy Bear, Bull: 3, Oarna-ton Bess, Fleming: 4, B. Weid Queen. Col-

ton. Cow, 3 yrr, and over, in ealf, not milling: 1 and 4, B. Lady Aleo and B. Faith ful, Baill 5 and 3, Stevipne and Combine Bailford, 2 Bras, 1, A steva 10 ing; 1 and 3, Br. Bess Bewan and B. Stock well Rose, Bull; 4, B. Lady Kegan, Oolton Heifer, sonior ysaching; 1, Mabel's Foett, Showfrop, Nichols: 3, Carina, Fleming; 4 Showfrop, Nichols: 3, Carina, Fleming; 4 Bail, Canabian Rose and B. Abheiol Grift, Bail, Standban Rose and B. Abheiol Schurg, Standbarg, Standbar

Bull. Heifer, junjor yearling: 1 and 3, Bull: 2 and 4, Fleming. Heifer, senior ca'f: 1 and 2, Bull: 5 and 4, Fleming. Heifer, junior calf: 1 and 3, Fleming: 2, Bull

Group Awards.

Three animals, get of sire: 1, Fleming: 2, 7, and 4, Bull. Progency of cow: 1 and 3, Fleming: 2 and 4, Bull. Graded herd: 1 and 3, Bull: 2 and 4, Fleming. Jautor herd: 1 and 3, Bull: 2 and 4,

Fleming: Best 5 animals, got of sire: 1, 2 and 3,

One Failure at Least

"H's framy our minister never gets married." remarked the young hus-band who had just revised his wife a new dress in his endewror to chafge the ather of the head of the head of the good hubband." "Well," replied the wife warmly, "the dicin't seem to make a very good one whon he married us."



A One Time Toronto Grand Champion in Her British Columbia Home.

9, 1915

kably alike in chibited by W.

Toronto

Iulet, Norwich; J. C. Boeck J. C. Boeck, y, Vanessa; W. msville; R. F. Geo. Coopr, Kelly, Culloen

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FARM AND DAIRY AND RURAL HOME PUBLISHED EVERY THURSDAY

and the

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Rogues shan not piy uner trude at the system our subscribers, who are our friends, through the medium of these columns; but we shall not attempt to adjust trilling disputes between subscribers and honorable business men who advertise, nor pay the debts of honest bankrupts.

The Rural Publishing Company, Limited PETERBORO, ONT.

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

Graduated Fire Insurance

HE farm of G. C. Bruner, on the 3rd concess

sion of Mersea, near Ruthven, was the scene of a very destructive fire this afternoon. The cause of the fire is attributed to spontaneous combustion in a bin containing 1,200 bushels of freshly-threshed oats. Three large barns and five smaller structures were consumed, with the contents, consisting of this season's crop. The loss is estimated by Mr. Bruner at nearly \$7,000, partly covered by insurance.

The foregoing tells its own tale. Mr. Bruner has the sympathy of everyone of Our Folks. We know of no more disheartening experience that a farmer over has to face than to be burned out. The loss in this case will be particularly heavy in that the fire occurred when the contents of the barn were of maximum value and the insurance, we suppose, no more than sufficient to cover the value of the buildings alone. This incident, and all others like it, bring foreibly to our attention the value of the graduated insurance plan. Had Mr. Bruner been following this system, he would have had his insurance policy so arranged that it would cover both crops and buildings, the insurance being at a maximum in the fall when the crops are all in the barn and gradually decreasing from month to month as the crops are sold off or fed off, until in June the insurance policy would be at its minimum. This system gives a maximum of insurance at a minimum of cost and it is particularly well adapted to the farm.

Money for Machine Guns

DURING the past few weeks it has become quite the custom to pass the hat at rural picnics, garden parties and other gatherings of a social nature, the proceeds to be devoted to the purchase of machine guns for the Canadian overseas forces. Private individuals and firms have made similar donations and gun cheques have been accumulating at Ottawa at such a rate that they are now in excess of the actual need for guns.

As an example of patriotic fervor, this is fine. The advisability of encouraging this method of , equiping our forces is questionable. If the supplying of a sufficient number of machine guns is merely a matter of money, then let our federal government use part of the \$150,000,000 appropriated for war purposes to purchase the guns. If the amount already voted is insufficient, let more be voted. But let us not follow the policy of depending on public generosity for the furnishing of necessary military equipment. This war is too serious a project to be conducted in such a hit and miss fashion. There are many ways in which citizens can show their generosity besides subscribing for machine guns. Agents of the Red Cross and patriotic funds of one kind and another are always ready to receive money subscriptions. And let us not forget to lend a helping hand to those indirect sufferers of the war who because of unemployment find it difficult to keep the soul and body together.

Opportunity

E VEN those of us who that in the dra-in yachting, followed with interest the dra-VEN those of us who take no active interest matic efforts made by Sir Thomas Lipton a few years ago, to capture for Britain the American yachting trophy. For years the best ship architects of Britain schemed to produce faster and faster sailing craft, but always the United States boat proved the faster, and for some years now the ownership of the cup has been undisputed. We mention these races because John B. Harescoff is dead. He was the American Edison of masts and spars and sails. He it was who designed the boats that outclassed the finest products of British shipyards. And John B. Harescoff was blind. He lived in darkness from his fifteenth year and yet he became the greatest architect of his kind in the world.

Some of us offer lack of opportunity as an explanation of our lack of success in life. What if the weather is not always made to order or we get a touch of rheumatism when our assistance in the fields is needed most! What are the reverses that sometimes seem so great to us, compared with the darkness in which John B. Harescoff lived so triumphantly!

Let us then be up and doing With a heart for any fate, Still achieving, still pursuing, Learn to labor and to wait.

Bank Mergers

FINANCE MINISTER WHITE is to be congratulated on his refusal to allow an amalgamation of the Bank of Hamilton with the Royal Bank of Canada. Neither bank was in financial difficulty, and so far as we can see, there was no good reason for their amalgamation. The refusal involves no hardship to depositors or to shareholders. The fact that amalgamation was attempted, however, should put Canadian people on their guard against the further centralization of the money power in Canada.

Next to land monopoly, no greater calamity could overtake any country than the control of its money resources by a small ring of financiers. Such centralization of money control would inevitably mean the crushing out of small business allowing the monopoly of the field to big corporations whose directors are also found on the directorates of the financial institutions of the country. Even more serious is the menace of centralized money control to democratic institutions. We Canadians have been kept fairly well informed as September 9, 1915

to the corrupting influence that is exerted by the Morgans and Rockefellers on municipal, state an federal legislation in the United States. We have our would-be Morgans and Rockefellers in Canad who would be no more scrupulous, did they on get control of Canada's financial resources th are their brethren of the same ilk to the south a the border. For years these moneyed magna have been centralizing their power, and the proposed bank merger was just one more step towar the realization of their ambitions. One defe will not discourage them by any means. The Ca adian public must be on the watch to see that further attempts, for they will surely be mad are frustrated.

What Will the Market Be?

WHAT will we get for our crops? No que tion is asked more frequently nowadays; to question is more difficult to answer correctly. times of peace the forecasting of the market beset with difficulty. At the present time we han all the hazards of peace intensified and a war ha ard, which is the greatest of all, added. We has to consider that the world this year is harvest its greatest wheat crop and that millions of but els of last year's crop vary be released from Ra sian storehouses once the Dardanelles have h lorced. It is probable, however, that the imp tance of this factor has been over-estimated.

Another factor, in Ontario at least, has been the adverse weather, which has had its effect on t quality of wheat. In some sections twenty-free per cent. of the wheat that will be offered out market has sprouted. In other grains, oats h been badly smutted and barley discolored. Wi all of these factors before him, the best crop a pert would not care to predict price move It is fairly certain, however, that grain pris this year will not approach last year's level w all European powers were buying feverishly. is safe to add also, that if farmers are in a pa tion to hold, they will realize a better aven price on their grain than if it were all to be n ed to the markets within a few weeks of harms ing. Further than this, no one can safely go a this time.

Perhaps Lime is Needed

ONE of Our Folks tried persistently for year to grow alfalfa, but without success. Neith did red clover seem to be particularly adapted to the soil of his farm and he was in despair ever being able to grow the feeds that are b suited to the dairy cow. We suggested that he to liming his land. He applied fifteen hundr pounds of lime to one acre as an experiment. T year he has on that acre as fine a crop of alfali as one could desire. Lime was all that was need

Lime is one of the essentials to successful dom culture and it is an element in which many si are lacking. Other soils, naturally fitted for de er, have been made acid by plowing down gree crops or by the excessive use of barnyard manu the decay of the organic matter so incorporat into the soil forming acids which neutralize lime already there. These soils need lime en more than they need manure. The form in whi the lime may be applied depends on local co tions. Ground limestone, slaked lime, wood as or basic slag are all good, the wood ashes havi the additional advantage of a large protein en tent and the basic slag being a rich phospha fertilizer. We would not advise liming as a m all for clover failures but its use might at la be experimented with on an acre or two.

If you would do something worth while, in realize that you must be something. You must able to think, plan and create .-- Lloyd.

September 9

A Sled

THIS sled de men for it it and thr which is easily h has to do is to when he reache horse, pick up up. The botton up. The bottom feet long fasten



and a 2x8 at th 10 inches long. the rear piece is 6 feet long.

The curved in about 2 feet hi front end of this end of the sled, while another cu ly bolted in th These rods shoul hold up the co the knife which gle. When the the arm jerks i D. Welch, in F

Anson Groh:

(Continue plank partitions feeding place d tory

The watering of the most imp dairy farm, is of ever seen and the most nil. The p is pumped by to a tank in t flow then runs is served up in inc of each cow. ram has been c ing ample wate farm stock. wrong," admitt then we go dow three pokes wit and it starts

The Ma The home of io's biggest coop not be described comfortable farm modern conven frame construct its new site has ly attractive with more still by 1 beautiful lawns been comparativ tractiveness of crease from yea

Another line of mention is the banks on the fa for easy cultiva the buildings t steep bank, ref a hedge of locu declivity. This lent shelter when it attain Tree planting h several years on Just before I

at Galt, Mr. H ied me to the f see his experin There were five was seeded to a veloped by Dr. stand was good. other Ottawa st The third plot, the fourth plot had been winte. The fifth plot of

ember 9, 1915

is exerted by the unicipal, state an States. We han cefellers in Canad ous, did they one ial resources that ilk to the south of moneyed magnata ower, and the pr more step toward tions. One defe means. The Car tch to see that I surely be may

rket Be?

crops? No ges antly nowadays; a swer correctly. of the market esent time we has ied and a war h l, added. We han year is harvestin t millions of bud released from Ra danelles have he r, that the imp over-estimated least; has been the d its effect on t ections twenty-fu l be offered on th grains, oats ha discolored. With the best crop a price movem that grain pris year's level whe ing feverishly.] ners are in a pai a better aven weeks of harnes e can safely go a

Needed

sistently for year t success. Neith rticularly adapts was in despair eeds that are b gested that he to fifteen hunds a experiment. The e a crop of alfali Il that was need to successful clos which many si ally fitted for du owing down gre barnyard manu er so incorpora ich neutralize ls need lime en The form in whi ids on local con d lime, wood ash wood ashes havi large protein es a rich phospha b liming as a cu re or two.

worth while, fm ing. You must is -- Lloyd.

September 9, 1915



and a 2x8 at the rear, which is 3 feet 10 inches long. To the outer edge of the rear piece is bolted a 2x4 which is feet long.

6 feet long. The eureed iron rod a, which stands about 2 feet high is fastened to the front end of this piece and to the rear end of the sled, as abown in the cut, while another curred rod, b, is strong-ly bolted in the middle of the sled. These rods should be so adjusted as to it is not the scena until it is out by hold up the corn until it is cut by the knife which is bolted on at an an-When the knilo cuts the corn the arm jerks it down on the sled.— D. Welch, in Farm and Home.

Anson Groh: The Man and His Farm

(Continued from page 4) plank partitions as the continuous feeding place did not prove satisfac-

tory. The watering system, admittedly one of the most important features on any dairy farm, is one of the best I have serer seen and the operating cost is al-most mil. The purset of spring water is pumped by a hydraullo ram, first into a tank in the house and the over-flow then runs to the barn where it is serred up in individual basins in front of each oor. For 35 vers the little and the runs to the our where it is served up in individual basiss in front of each cow. For 35 years the little ram has been chilogging away, supply-ing ample water for household and farm stock. "Occassionally it goes wrong," admitted Mr. Grdh, "and then we go down and give it two or three pokes with a good heavy stick, and it starts up again." The Manager at Home The home of the manager of Ontar-io's biggest cooperative enterprise, can not be described as palatial. It is a comfortable farm home fitted with all modern construction, the old house on is new site has been made wonderful-

frame construction, the old house on its new site has been made wonderful-ly attractive with a cost of stucco, but more still by the well planned and beautiful lawns. This planning has been comparatively recent and the at-tractiveness of the setting will in-crease from year to year as the trees and shrubs develop. Another line of invergences watche

Another line of improvement worthy of mention is the reforestration of all

Another line of improvement worthy of mention is the reforestation of all banks on the farm which are too steep for easy cultivation. To the west of the buildings there is a particularly skeep bank, reforested to pine, with a hedge of borust at the brow of the declirity. This will afford an excel-lent shelter belt for the buildings when it attains a fittle more size. Tree planting has been going on for several years on the Groth stermin st Galt, Mr. Herbert Groth accompan-ied me to the far end of the farm to see his experimental plot of alfalfa barks revered years of the astrony for alloft a barken by Mr. Malice at Ottawa. The stand was good. The second plot, an-other Ottawa strain, was not so good. The third plot of Ontario Yariegzied, had here writter killed in two strips. The fitth plot of Orniario Yariegzied, had here writter killed in two strips. The fitth plot of Orniario Yariegzied, had here writter killed in two strips.

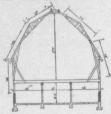
and support of their brother farmers. -Editors.]

The Iowa Plank Frame

N the days of our fathers the build-

ing of a barn involved the cutting of the timber in our own bush, hauling the logs to the mill and draw-ing back the sawn lumber. Nowadays ing older the sawn lumber. Nowadays the building of a barn on most farms involves the purchase of practically all of the lumber in the structure and more economical forms of construction than in the old timber frames are desirable.

The diagram shown herewith is of a plank frame designed by the Iowa Experiment Station. This barn is de-Experiment Station: "This harn is de dut use end of July and bot and a lot signed to be utilit at the least possible of hay was put up in good condi-cost, commensurate with greatest of the dut. Now, however, thunder beinerer. There are no heaviest of bowers are string or pagin, but I are of 92m material the wall and/or are of 2x6 material, the wall studding



built under this plan would cost about \$1 per square foot of floor space.

British Columbia News

DITOR, Farm and Dairy,-Crops E this year in this valley are excep-tionally good; there has been more growth on account of the wet spring and early summer than I have spring and early summer than 1 may ever seen in Canada. Grair, and hay are exceptionally heavy and in places badly lodged. The first part of hay-ing was done in "catchy" weather, but the end of July and beginning of

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farmers for the farmers who are to get every cent there is in the business af-ter expenses are paid. Two cents per pound is keyt for this purpose, and the over-run which will also pay in-terest and sinking fund. We consider ourselves very fortun-ation having secured the services of He is a man of much experience, keen business capacity and tremendous energy, and with a country as emine-ently adapted to dairying as our ently adapted to dairying as our valley. I can't see what is going to prevent him making his enterprise ex-ceed the expectations of the most sanguine.

guine. The most popular breed of cows here is the Holstein. There are two or three head of pure bred cattle be-side mine, which are headed by Pon-tiac Gem, a son of the famous Delta Gem, a 20,000-lb. cow, owned by Mr. T. Owens, of Salmon Arm.-Arthur A. Brooke, Cariboo Dist., B.C.





VERYTHING great is not always good, but all good things are great.-Demosthenes.

When to Lock the Stable By HOMER CROY

Copyrighted 1914, Bobbs-Merrill Company (Continued rom last week)

nights straight," said a hoarse voice in the crowd. "That's what he did-three nights straight."

"Last spring when I had the rheum'ism," come another thick voice "out of the darkness, "and couldn't go around damp places, he baled the water out of my cellar every day during the wet spell."

No names were mentioned; it was always he. Whether the reference was to Clem or to the prisoner, no name was used

"I never liked him from the first time I had my eyes on him," snapped a bitter voice. "But I never dreamed he had this in him."

The men knotted closer together, and a distinct rumble of anticipation ran over them.

Outlined in the distance was the brick jail: near the top of the rear a lamp glimmered and even at that distance it could be seen that bars measured off the light. A shadow measured off the light. A shadow came slipping down the road from the back of the brick structure, came hurrying down the dusty street and paused at the edge of the crowd. Heads beat forward, silently and questioningly, and hands crept unconsciously to hip pockets.

"It's all right, boys," guaranteed the man with the coonskin cap. Then he turned to the black figures and shot an arm out in a commanding gesture. "They don't suspicion any thing up there, and that's his light burnin'. It's all right, boys."

That was all that was needed. Almost as if with one foot they stepped off, keeping to the middle of the Massed, they moved to the street. dairy building, crossed the walk with out more than touching a toe to it, some leaping. Hats came down over eyes, hands went to hip pockets and brought out bits of shining metal; the well rone clinked and one or two figures lurched perceptibly

The man with the coonskin cap held up a hand, tiptoed on to the steps and was reaching out for the door-knob when the red door pulled back before his face and Marshal Jupes stood before him. The lamp, hang-ing on the wall behind him, showed a squat figure in whose hands was gripped a short repeating rifle. hair was tossed and tumbled and one suspender dangled, showing a hasty

"Boys," rose a high wavering "Boys," rose a high wavering voice, "I know what you came for. But you can't have him, you can't have him." The voice was not cer-tain, and even in the shadow the face whitened. "We don't want no trouble, boys, but I'm going to do my duty.

•• White N my boy had the fever If he's guilty the law'll be enforced." "He's guilty all right," cut in a "He's guilty all right," cut in a hoarse voice in the crowd. "That's ter not make trouble," "Now, boys, you don't know."

d'opping from assertion to argument. "You don't know for sure, and you'll be sorry if you do anything hasty." A hand circled above the crowd un-

seen by the figure in the door, noose swished through the air and dropped on Jupes' shoulder. Some-one had tried to laviat him. He ducked back and slammed the door behind him. Scarcely had the door locked before a shot sputtered into the wood. Another shot flattened against the bricks. A return shot from the inside whistled over the heads of the crowd. The men parted around either corner. A rock went crashing through a window. heavy log was swung around the corner, two men on each side. The men swung it back and forth a couple of times to get the rhythm of their bodies, and the figure in a coonskin cap grated his breath out harshly as a signal and the battering-ram crashed against the door. The door flew open, against the door. The door hew open, swinging limply on one flinge, the erd of the log sticking through the splintered panel, like a camel's nose. "Now, men," yelled the man in the coonskin cap defantly, "all together. He's our man !"

The men surged forward with a chorus of yells, shouts, and curses in all keys

But there was one figure quicker than all the rest. Pushing his way through the crowd he leaped through the door, darted inside, called a sen-tence to Jupes and was back in the door with the officer's gun.

"Stop where you are," he com-manded with so much authority that the men poised on their toes, ready to release their muscles and finish the action. "Stand where you are till I tell you one thing !"

Outlined against the light, his shoulders squared, his head up, the repeating rifle in his hands, stood

'In reality I've got two things to His voice was high and tell you." There was a commanding something about him that no one had ever dreamed of before, a power that made even the man in the coonskin cap drop his shoulders and settle "The first thing is this: The first man that moves toward the door is a dead mar, and the second and the third, just as long as I last. You may be able to get me, but some of you'll never go home. Hen Riley, if you swing that lariat at me I'll shoot you cold. D-n it, there's nothing I'd rather do.

"The second thing is this: Don't eves left the red door, and each lool you raise that gun, Bill Smith, or ed at the other. The man with th I'll plug you through the eye. I know positively that Doctor Fordyce didn't kill Clem Pointer. I know it. I hate the doctor just as much as any of you-more, I guess. Didn't my little girl die and him waitin' on her ?- but I ain't going to see you string him up when he sin't guilty. I know positively that he didn't kill Clem and that's all I can tell you about it." "Who did then?" demanded a heavy

"I ain't saying that anybody didwe ain't ever found his body. You don't know anything about what hap-pened except findin' some things. I can't tell you any more; but one thing I do know, and that is Doctor Fordyce didn't kill him."

There was authority in the way Rick Oódy lifted his head, and in the way his shoulders held themselves stiff and rigid in the panel of light. Never before in the whole history of Curryville had any one paid the slightest attention to him, but now they realized that a power stood before them. Rick had seen Clem and knew that he was still in the flesh. If he could have said this the crowd would have melted away, but he had promised Clem that not one word should pass his lips as to what had happened to him, and by that promise 's lips were sealed.

"Who are you to be talking this way?" came the demand.

"That's right. I'm just Rick Oody, the town drunkard, the man who does your dirty work and buries your horses, but I know what I am talking about.

Slowly he turned his back full up on the crowd, stepped across the logi and disappeared behind the red door. From the barricade came Rick's voice, the same measured assurance in it as before : "Boys, I'm goin' to keep that lamp lit so that you'll know who is the first one down.

The mob stood hesitating, breathing heavily.

"Go on back to the trestle, boys-with your well rope-and think it

The attitude of the men, their necks out, their lips set, relaxed, their



"I'm Just Rick Oody, the Town Drunkard."

September 9, 1915

Silen

ed at the other. The man with coonskin cap reached one foot

without turning their faces.

dusty street.

hind him and the crowd edged back

they followed around the corner of the

little brick building, crossed the board walk, and gathered in the

Then two figures turned back and

September 9, 19

----The Upwa

Cultivating Co A MONG the 'mai wrote embodyin moral truths, Russian peasant with the devil for land.

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Conditions to-d

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One day he hear

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walked without hesitation up to the edge of the porch. Hen Riley and the man with the greasy moth-eaten cap dragged the log out of the splintered panel of the red door, carried it down the middle of the street and flung it shamefully in the gully underneath the trestle.

The mob had been quelled, and the prisoner was safe.

CHAPTER XVI. BRASSY'S IDEA.

Clem found another boarding-place in Kansas City where he was quite sure that spilled blood had not leaked clear through to the ceiling below, and worked harder than ever preparing to save thoughtless humanity from the devouring flames by means of the Railey Fire-Escape Belt. The city ground on him harder and

harder. After the glamor and whirl of the first few days had worn off it became a millstone around his neck

One evening he was standing in front of the bulletin-board, one of a wild mass of hurrahing humars Somebody somewhere had just slid in home and hats went up in the air and nome and hats went up in the air and men pounded one another on the shoulders as if some brave fireman had leaped to safety on a Railey Belt with a beautiful yet sobbing woman in his arms. And there was nothing to see except a diamond-shaped thing about as big as a checker-board-wouldn't he like to have another game with Judge Woodbridge ?-- nailed on the side of a building.

Above the miniature baseball dia-mond a bulletin was posted. Clem's eyes leaped to it :

Dr. Fordyce, Almost Lynched, Now to Own City Last Week Curryville Was Ready to Hang Doctor-This Week Willing to Give Him Valuable Option.

Clem brushed the back of his hand across his eyes with a motion peculiar to him and with parted lips stared at the bulletin.

"Look. Look !" exclaimed a man be hind him to his companion. "Doctor Fordyce - that's our man !"

The man addressed turned his eyes from the miniature diamond to the news bulletin, "Well, I'll be d-d! Sure that's Fordyce, but what does all this meanalmost lynched?

"Hush - you don't know who's around, warned the other, pushing up his Panama: "He hasn't reported for a week and his orders are to send in word every day. Curryville's the town. all right. We'd better send him a cipher.'

The other nodded, and the two men hurried away.

(To be continued)

THE majority descriptions interest wh day to see for we have a long of the most inte we have read i cently come to ward Look wr under the sign While on her w position our co places of beauty

in such an int we believe Our ing her experie have done. of this trave and will be c week's issue. of this travel

My visit to ed my expecta



9, 1915

id each look an with the ne foot h edged back, ces. Silently corner of the crossed the ered in the

ed back and n up to the Riley and the th-eaten cap ne splintered ried it down and flung it underneath

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harder and r and whirl worn off it d his neck st'anding in d, one of a humans just slid in the air and her on the ave fireman Railey Belt ing woman was nothing haped thing ker-board-nother game --nailed on

aseball dia-ed. Clem's

Lynched, s Ready to k Willing

Option. rushed the his hand eyes with peculiar to with parted at the bul-

Look !" exman be to his com-Doctor For-hat's our

n address-his eyes miniature Well, I'll Sure that's but what his meanched?'

- you don't s around," the other, his Panhasn't rea week and are to send every day. the town, Ve'd better a cipher."

er nodded, o men hur-

ontinued)

September 9, 1915

MONG the many fables Tolstoy wrote embodying economic and noral truths, one is that about is Busian peasant who sold his soul to the devil for land. This peasant had server owned a foot of land. He many field he had rented for yars

the corr for famil: Fins peakant had sever over a foot of land. He c strain field he had rented for years, world. So he made a bargain with the devil and got that field. The several several several several he devil and got that field. The several several

writen. In the present-day struggle for weakh, power and greatness of all degrees, the spirit of constrained seems to have been lost. How other we are our hearts on sometime which we are fully convinced will bring us happiness, and we feel that dit. If we verve to carefully weight dit is dit. we verve to carefully weight dit. If have not fresh that dit. If the hal-ance the fancied desires of this "thurry or hearts these desires create for others, would we not strive more real happings we not strive more earnestly to cultivate a spirit of con-tentment in the things we now have? M.M.R.

... On the Way to the Expesition

THE majority of us enjoy reading descriptions of various places of interest which we may hope some

day to see for ourselves, or at least we have a longing to see them. One we have a longing to see them. One of the most interesting "travel talks" we have read for some time has re-cently come to our office from our Upward Look writer, who contributes under the signature of "I. H. N." While on her war to the Panama Exposition our contributor visited many places of beauty and has written to us places of beauty and has written to us in such an interesting manner about some of the places she has seen, that we believe Our Folks will enjoy read-ing her experiences quite as much as we have done. The first installment ing her cone. The first installment of this travel talk appears herewith, and will be continued in our next week's issue. Our contributor writes : Travel Talk

The Upward Look Monor Contentment Monor Contentment Monor Contentment Monor Manage Contentment Monor Arrive and Participation of the source of the sour

unscrutable." One different springs: one deep-series hive, the next darkest green, the henext darkest green, havender, turquoise and iso on. And the geysers I is aw Old Faithful, whose waters go 150 feet high and the steam far, far higher, by sunlight, in sunset glow and by searchlight. I heard a lady say of the last named, "Is it not beautiful?" Her hushand answered in a hushed voice, "You card-not find an adjective for it." One night my tent was on the edge

One night my tent was on the edge of Lake Yellowstone, altitu e almost of Lake renownone, alter a almost 8,000 feet, with long range, of snow-capped peaks. Another night it was on the edge of the Yellowstone can-yon, from which I could hear the roar of the Falls, over 500 feet high. The walls were surpassingly beautiful with their wonderful coloring, deepest red to softest yellow. The camp fires were

to softest yellow. The camp fires were Golden Gate in Yellowstone, was the climax of all, with its massive rocks, stupendous cliffs rising sheer up one side and down on the other. "Hoodoo" was as if Nature in a mighty rage at one, time had thrown great buildes one time had thrown great boulders and rocks in the wildest confusion and turmoil.

turmoil. The time spent in Salt Lake City was very interesting. I had never be-fore heard a representation of the hu-movies on the organ. It was won-derful, like a whole invisible choir. I enjoyed an invigorating dip in Salt Lake.

In the Desert

chuckled mockingty-he was the orth. Conditions to-day are identical to In coming through the desert to those in the days when this fable was Grand Canyon, the temperature was written. In the present-day struggle 120 degrees, but it was not uncomfort able in the cars, owing I suppose chief-ly to the electric fans. The desert is able in the cars, owing I suppose chief-by to the electric fams. The desert is o different to what I had pictured. In the sector of the sector of the sec-lar of the sector of the night of the sector of the sector of the night of the sector of the sector of the night of the sector of the sector of the night of the sector of the sector of the new sector of the sector of the sector of the night of the sector of the sector of the sector of the new sector of the sector of the sector of the sector of the new sector of the sector of the sector of the sector of the new sector of the sector of the sector of the sector of the new sector of the se migney orang canyon. My net interpression was one of intense fear. I could not go near the edge, and I could not bear to look at it, yet I straightway went and made arra igements to go down on a burro and stay all night, then orang a the mark day.

then come up the next day. It is one vast mountain, plateau, canyon and valley after another, unfolding and stretching farther than the eye can see or the mind grasp. Just one corner (although one earnot think of it as small would be marvellous, and think of all those portions. In the bright sungisht, the coloring was so virid and glaring, so binarre, that I nated it. In the alteronic of Texams to Grand View. Then for the first time I began to less my fear and enjoy the beauty, as the colors activated and hours, the shadows creeging up and. eye can see or the mind grasp. toned. 1 watched the sunset for two hours, the shadows creeping up and up, to the myriad gleaming and glis-tening peaks. By that time I was on the very edge, trying to imprint the whole on my memory, so that it would sorrer finds away never fade away.

On a Mule's Back; and Off

and will be contained in our post . On a wave dack; and will week's issue. Our contributor writes: The next morring the surrise was as grand as the surnest. By nine I was. My visit to Yellowstone far surpass to be ready for the Trail. There were ed my expectations. I was not in the two ladies besides myself, one a doe-

HOTEL CARLS-RITE



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10-15

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FARM AND DAIRY

THE CANADIAN GOVERNMENT offers suggestions for fruit preserving

Irun preserving In an article circulated theory is to Canada, the Fruis Hannch Dupt, at Or-tiawa, surgers as being best for pre-menting purpose, certain brands of provide and Stone and Theory and the three actions is innely and to its may am see, Gayes, Lombardt, Raite Clinica, and the set of the second second set of the provide and Stone Clinica, and the second provide and the second second second set of the second second second second second second second article and the second second second second second article and the second second second second second second article and the second second second second second second article and the second second second second second second article and the second second second second second second article and the second second second second second second article and the second second second second second second article and second second second second second second article and the second second second second second second article and second second second second second second article and second second second second second second second article and second second second second second second second article and second second



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FARM AND DAIRY

or, four gentlemen and two guides After mounting I soon became accus-tomed to the motion and the position. From the first my mule was trouble From the first my mule was troubles some; he was such a bungry animal. He would start up the cliff on one side after aomething green, or stretch out over the chasm on the other. Thu descont was thrilling. For a long time descont was thrilling. For a long time I could not look down, just steadfast-u un Gradually I became acouptmond. I could not look down, just attended to by up. Gradually I became accustomed to it and could look quite fearlessly into the depths. The turnings were the dizziest places. Again and again, one would wonder how those animals

could keep their footing. Just before reaching Hermit's camp Just before reaching thermit's camp, where we camped for the night, the donkey in front of the party with the provisions, suddenly knocked his load off and went galloping off down the trail. My guide stopped his pony and attempted to put the load on him. He trait. Any guines atopped his pear and the series where the series in the attempted by put the load on him. He Ontario clay. If pulverizes in the researche being changed from a passen- hand, however, very fine and soft. ger to a pack mule and ran away too The Carachieve there is survely a with the guide. Mine followed suit, 1 great country with glorious opportun-ately at a level place. The uncover place behind me sprang to my assistance. One foot aught in her stirrup, so elso was dragged a little distance before M ^Y presence at the Home Chib sturt that I want to tell Home Ca the gentleman behind could help her. M ^Y presence at the Home Chib sturt that I want to tell Home Ca the gentleman behind could help her. M ^Y presence at the Home Chib sturt that I want to tell Home Ca When the suide returned after getting a Hind Man' her not had conditions here of the sound that he woon the genteenan bestner count need set. by wants to know why "Anothe reasonance of the wondered that the won when the guide returned after getting or Hirgd Man" has not had something, have often wondered that the wondered that the wondered that the set of he found a demoralized, but thankful party that no one was seriously hurt, as it might have been a terrible catastrophe at so many of the steep places. (Continued in next issue.)

-----**OUR HOME CLUB** -----A Breeze from the West

T has been my good fortune this

summer to take advantage of a trip through Western Canada. have not forgotten the Home Club while on my tour, and while it would be difficult to satisfactorily describe the many enjoyable features of such a trip, it has occurred to me that I might give the circle a few of my impressions along the way.

A summer holiday spent in western Canada is certainly a delight to one who has never before crossed the boundary of Ontario. Of course, travelling by train during July and August is of necessity both hot and

impossibility, though, to remain in bed after the first consciousness steals over one of the scenery speeding by

The prairie provinces are vast, are

derful, but the easterner sadly state trees. To stand looking west, north and south on the evel plain stretching to the horizon, gives one a sense of utter freedom, mingled, nevertheless, with a subtle sense of loneliness. The houses are within easy view of each other, and are, as a rule, small and unpainted. are, as a rule, small and unpaintee. "The little grey home in the West," is a typical phrase. The soil about Regina is quite

heavy. In wet weather it will roll up on the wheels eight or nine inches in width. It dries quickly, and on the surface looks to be caked like

ities, but Ontario is more a district

September 9, 1915

OFFICIAL FRUIT BULLET

PRUIT BRANCE DET. OF AGUE FRUIT BRANCE DET. OF AGUE Combards and Gage Fluors for any the second the prosterior of the second second second second second pluma for the second second second for second second second second perfectly second listing for the second second second second second point second s

eigners occupying the room adjoin no sheets on the bed, the room clea twice annually and not a saving in ture anywhere. The mistake that the man made was in forgetting that h hired man was a human being w sensibilities like onto his own. The relationship between a hired man an boss on the farm is a human relation ship and that must not be forgotten.

presence at the Home Club stunt that I want to tell Home Club

worked long hours both rain and ahine, year in spite of other work. but more especially shine. We selected a corner of the wood-I do not know as there is much left shed about five fost square, put apar-to say on the subject, except to ex. tition up around it, more than the press my own opinion and that is, with a gradual aloop to one side with that it depends on the man. Some a drain leading away blaced an old me everything the boos does for them—or lasses puncheon and rain a couple of the noise of the to accupt a decent weight. A pipe was connected with themasive in a torize the every time and that is, and the trans-troom and that is, the set of the to accupt a set of the set of the the hose and the set of the to be set of the set of the set of the trans not fit to occupy a decent weight. A pipe was connected with the maximum of the screeption. I suppose I ran a hose from a tap at the bottom latter are the exception. I suppose I ran a hose from a tap at the bottom may be taken as representative of a of the puncheon and connected with latter are the exception. I suppose I ran a hose from a tap at the bottom may be taken as representative of a of the puncheon and connected with a class of bired men, those that have a resette from an ordinary water sprink-fairly good public school education and ling can over the centre of our fire were brought up in respectable homes. foce room. A value just above the D give me some of the bedrooms that resette checked the flow of water. Nor have been described in the bedrooms that resets the bed disc velling by train during July and August is of necessity both hat add dusty. A pleasing variation, had have been described in our Home when we come in from a hot diry ever, is the lake trip from Port Mic. Uth, for instance the kind maniformed day in the fields we can clean our-Nicholl to Fort William. The scene of the hot have been described in our Home when we come in from a hot diry y "Another Contented Hind maniformed day in the fields we can clean our-pretty islands with their crowns of the scene of the scene of the hot have been described in the final scene of the scene of the ame as to give me notice to quit the cost was a site coment and one half in the place where I stayed longes of a rainy day. I'll guarantee that and liked best, I had as good a room How Chan and the board hot is a scene of the scene of

----= Pure Cane Buy your Lantic 10.0 10 Ib. antic Preserving Sugar in 10 and 20 Pound Bags This insures your getting the same pure Cane Sugar of extra LABELS FREE

quality that you would get in the Lantic 2 and 5 pound Cartons. You can also get Lantic Sugar in 100 pound bagseither fine or coarse granulation as you prefer. Don't risk your Preserves. Make sure that they will turn out right by using Lantic Sugar. 100

September 9,

Electric C Mrs. Wm. Stewa

Co., W E have used where years. snade me to go l system. There to lantern glasses

just switch on th all there is to it. Electricity cor benefit in removin summer ironing. away from home, ioned irons and a ther, that I realize

tric iron meant. We also have a toasting bread, a eggs or a piece of ing an electric bu necting wire, we d meal in a very sho

or worry. In the barn they the cream separa washing the dairy in the separator

> THE BEST you get breakfast at first. Keep to-day is the l but for the wh that has ever l There is n

their season. always whinin latter-day con phone, the mo

does the work and of muss in the The power is of hellford. We pay hellford. We pay for three H.P. T

for three h.r. 1 of running a one-tively high. Just vice for eliminatin gery, it is well w .

Hints for A

I OW that the thrifty hous ing advantag chards and making ing dishes from Probably apple pi baked apples are table. Below are may suggest varia Bird

Fill a pie tin wh lar sides with ap into lengths or s little water, cover and bake 25 min the crust side d sprinkle with sug and serve with cre Apple Sau

Cream one-quar one-half cup of br beaten egg, two t one-half teaspoon and enough flour ter. Bake in two ther with apple sa serve with custard Apple I

Fill well-buttere of rather thick app tablespoons of bu of flour, two teas der, and one teas enough milk to n and drop one large of each pan of app twenty minutes in



ember 9, 1915

IT BULLET EPT. OF AGRIC

RE. Plums are not ng and preser bond. The qur both peaches act that the t act that the t ed. Grawford re now arrive oducts of our ere summers. oducts of our Ga are supreme, be arving. Plenty of ed penches as saith all winter, the bottles as needed. There is luxury for the Phone or call as we him book yer

e room adjoini the room clear not a saving is mistake that t rgetting that | man being with his own. The m hired man and human relation t be forgotten.

ver Bath tly pulled off a tell Home Club rs such a close om question. I that the women raged trying to not only for their own hus Farming at cerarming at cer-par is a dusty, dust will sift and as a gen-easily secured boss has got ery nicely this ork.

or of the wood-are, put a par-iented the floor one side with On the rafters ed an old moa couple of t the extra on. We then We then at the bottom nected with a water sprink. of our five t above the f water. Now a hot dirty n clean our-The total and one half arantee that reads this relationship

of ours and e boss's wife the relationshe inspired Man."



September 9, 1915

Electric Conveniences

Mrs. Wm. Stewart, Northumberland Co., Ont.

WE have used electricity for light-ing our house and her light-W ing our house and barn for three years. You couldn't per-suade me to go back to the coal oil system. There are no lamps to fill or lantero glasses to clean now. You just switch on the light and that is all there it. all there is to it.

Electricity confers its greatest Electricity conters its greatest benefit in removing the drudgery from summer ironing. Last summer, when away from home, I tried the old-fash-ioned irons and a hot stove. It was thet, that I realized just what an elec-

ther, that I realized just what an elec-ric iron meant. We also have a handy little grill for toasting bread, and cooking a few eggs or a piece of meat. By remov-ing an electric bulb and using a connecting wire, we can prepare a simple meal in a very short time without heat

The second secon

FARM AND DAIRY

Serve hot with lemon sauce or maple syrup.

Date and Apple Pie

Line a plate with a rather rich crust; fill it with a mixture of chopped dates and apples, sprinkle over half a cup of sugar and one teaspoon of cinnamon; add two tablespoons of water; cover with crust and bake in a moderate oven.

...

A "Pin Money" Suggestion

A "Pin Money" Suggestion WATS of carning money on the siderable interest to most coun-try girls. Especially does it interest those who feel they have a certain amount of time each day or each week, in which they might follow up some work that would augment their income. Here is a novel method of making "pin money" advocated by a yof it. She wriths "My home is on a small farm two miles from town. It have found a practical way of increasing my none too plentifu income. We keep sev-eral cows and so have large quantifus

THE BEST DAY

T HE BEST day you ever lived is to-day. Say it over to yourself as you get out of bed in the morning. Keep saying it as you est breaktast and do the chores. Never mind if you don't believe it at first. Keep asying it just the same. The believing will come. For to-day is the best. There is no getting around it. Not only for you, but for the whole world, collectively and individually, there is no time that has ever been quite so good as now.

that has ever been quite so good as now. There is much talk of the "good old times." They were good—in their season. But who would go back if he could? The man who is always whining about them ought to be deprived for awhile of his latter.day comforts, the daily paper, the ratal mail service, the tele-phone, the modern tools for work of every kind. How long would he be satisfied with the "good old times," do you think?—Selected.

does the work, and does away with a lot of muss in the kitchen. The power is obtained from Camp-bellord. We pay a flat rate of \$75 for three H.P. That makes the cost of running a one-half H-P, compara-tively high. Just the same, as a de-vice for elimitating household drud-ger, it is well worth the money. . . .

Hints for Apple Eaters

N OW that the apple season is on, thrifty housewives will be thrifty housewives will be tak-ing advantage of their apple orchards and making all sorts of tempting dishes from this luscious fruit Probably apple pie, apple sauce, and baked apples are the most common ways of preparing the fruit for the table. Below are a few dishes which may suggest variation in the menu: Birds' Nest Fill a pie tin which has perpendicu-

lar sides with apples cored and cut into lengths or sliced. Add a very little water, cover with a biscuit crust and bake 25 minutes, or until the apples are tender. When baked, turn, the crust side down on a platter, sprinkle with sugar and cinnamon, and serve with cream. Apple Sauce Pudding

Cream one-quarter cup butter with one-half cup of brown sugar; add one beaten egg, two tablespoors of milk, one-half teaspoon of baking powder, and enough flour to make a stiff bat-ter. Bake in two layers. Put toge-ther with apple sauce while hot, and serve with custard

Apple Dumplings Fill well-buttered muffin pans full of rather thick apple sauce. Rub two tablespoons of butter into two cups of flour, two teaspoons baking pow der, and ote teaspoon of salt. Add enough milk to make a soft dough, and drop one large tablespoon on top of each pan of apple sauce. Bake for twenty minutes in a rather hot oven.

does the work and does away with a of sour milk which we formerly fed to of sour milk which we formerly red to the pigs. Now with very little effort and time I make this sour milk up into cottage cheese and sell it in town, It is made in nound bricks which sell at ten cents a brick. Cus-tomers were hard to obtain at first, but as soon as people learned about ny cheese. I had all the customers I would smeet a take the backase could supply. I make the cheese twice a week and deliver it the day it is made. In this way the cheese is fresh when it gets to the customer."

- "IOA" Plea for Quality

Miss Eulalia Whaley.

THERS may been the stalwart Holsteins.

O HOLSENS, But I like a Jersey cow; Thought I liked her when I bought her, But I like her better now.

Ouality should be our motto In selecting things of earth; Ouantity don't count for much, sir, If it's of but little worth.

When you milk a Holstein heifer.

True it is you get enough, But I think you will admit, sir, That it is cheap-looking stuff.

And those men who claim the Hol-

And those men who claim the Ho steins All the other strains will beat, Often ask for Jersey butter When they're buying some to eat.

Now I want no spotted Holsteins, Only Jerseys shining fat, And I think our friend McCullough Was but talking through his hat.

Holsteins figure in reduction When the truth is fully told Of the cow and her production That is highly tinged with gold. Athens, July 20, 1915.

Hints for Early Autumn Frocks

Form and Dairy sciences shows in these columns are especially prepared form and Dairy sciences RM. They can be seen a for a specially prepared of minimum sciences and the special science and the special diversion or special sciences and the special sciences are as diversion of the number of patient activity. For a special masses of the different sciences and the number of patient sciences are special different sciences to Battern Delay. Form and Dairy Festersker, Durit, sciences and the number of patient sciences. For a special science are special different sciences and the number of patient sciences are special different sciences. The Battern Delay, form and Dairy Festersker, Durit, sciences different sciences and the sciences.



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EGGS, BUTTER



To the Women Folk **On Our Farms**

We want your help and suggestions in making "Farm and Dairy" more helpful and interesting to the good wives on our dairy farms. We need your suggestions particularly with our annual

Women and Household Number

to be published OCT. 7. Let us know what particular subjects you would like discussed. We realize that our women folks are entirely responsible in the equipping of the home. Our advertising section, editorials, etc., will assist you in buying for the winter season. We'll appreciate your suggestions-we want you to go carefully over our advertisements in that number. They will be largely directed to you.

Farm and Dairy. Peterborough, Ont.

When writing to advertisers mention Farm and Dairy.



Wheeled Ladder for Apple Pickers

FARM AND DAIRY

S. W. Tripp, Prince Edward Co., Ont. T is a very easy matter to pick the apples in the centre of the pick the apples in the centre of the tree and A apples in the centre of the tree and at the top. It is more difficult, however, to pick the apples from the outside of the tree. Care must be taken that the small twigs which ra-present the year's growth are not broken off, and to do this the pickermust be so placed as to have the easy access to the fruit. An ordinary ladder is awkward to move, and is more 88 unsteady

We solved the problem by making a We solved the problem by making a wheeled ladder. We took the wheels and axle of a discarded spring tooth cultivator and fastened on it pieces of scantling 2 inches by 4 inches for sills. For uprights we took a 2 inch by 6 inch scantling 12 feet long and ripped it at an angle so that it gave us two 16 as all angle so that it gave us two pieces 4 inches wide at one end and 2 inches wide at the other. These placed on the sills, small and upward, form the sides of the ladder. At the top is a small platform supported by the lad-der and by the legas as shown in the drawing. The cross places for steps moment differential, or steps. drawing. The total parts of the side to project alternately on either side to hold the basket while picking. On the sills at the bottom of the ladder is a nar-sw platform. The wheels should be placed so that the device will not tip when a man's standing on this lower platform . There is then no dan-ger of it tipping when he is up the ladd

This ladder is easily moved around the tree or from one part of the on



chard to another. It is very easily made and costs but a trifle. A wet day during the summer could not be spent to better advantage by the fruit grower than by making this provision for the busy picking season in the fall.

The Fertile Garden

BARNYARD manure of itself is not shows that it is rich in nitrogen but somewhat deficient in both phosphoric acid and potash. phoric acid and potash. This is a serious deficiency. Phosphoric acid and potash are the two fertilizing and potash are the two fertilizing elements which mature the crop and form the fruit or seed. A garden liberally fertilized with manure goes too strongly to stall and foliage. Particularly is this a detriment where early frosts are to be feared.

The deficiencies in barryard manure should be made good with com-mercial fertilizers. Where there is plenty of manure on hand I question the economy of applying a ready mixed complete fertilizer. I would rather use moderate applications of phosphoric acid and potash and most soils are more in need of the former.

September 9, 1915

In fact in a great majority of gar. dens, super-phosphate, bone meal or basic slag will give the most econo-mical results. I myself prefer basic stag on account of its large content of lime, although it will not give as quick results as the super-phosphate. An application of 300 to 500 lbs, to

the acre will generally be sufficient, Some gardens are actually so overfertilized with manure that it would be well to do away altogether with man ure for two or three years and phosphates and potash only.-F.E.F.



Selecting the Layers

Frank Marcellus, O.A.C., Guelph, Ont. WHAT is the best breed of ponl.

try? My answer to this question always is that it is not so much a question of breed as of strain. There is no best breed. Select the breed that appeals to you and then get a good laying strain of that breed and "go to it." I would not select a breed because someone else had done well with it. One cannot make the went with 15. One cannot make the best success with any breed unless the type and color appeal. It is vitally important to got a strain bree for winter egg production. If we have a strain that will produce

win'er eggs, we need not worry wheth-er trey will fix at other seasons or not. To get winter eggs we must have a bird that will mature quickly. If a bird is not matured by cold weather, its development from then on will be slow and it may be many months before we will get an egg from it. would suggest, too, that heavier breeds must be hatched earlier in the spring than light breeds. The laying stock should all be hatched in April, or early in May, and then given good care right to maturity. Leghoras may be hatched three weeks later than most other breeds and then start to lay at the same time.

In breeding for egg production, it is always well to remember that it is the male that imparts egg producing ability to his offspring, rather than the female. I would always aim to secure the male birds from flocks that are known to be heavy winter layers. Constitutional vigor is a very impor-

tant point in heavy winter egg pro duction. Without it the system of the bird will break down. In our work at Guelph, 25 to 30 pullets collapse every fall due to the strain of heavy egg production. Generally, I may say, that a bird with a broad head derel-opment will have the same charactertics in the body and a bird of constitution always has a broad, deep body, breed considered, with room for the vital organs.

Red Mites and Lice

Geo. W. Pearl, Wellington Co., Ont.

WE read a lot at this time of year in poultry Wyear in poultry journals and other papers giving advice on how best to get ric of mites and lice, which infest breeding pens and young stock alike. Thousands of dollars are best annually be formare with and lost annually by farmers with small flocks, as vermin not only curtails the

September 9,

egg supply to a gro many, many young cannot understand death. Here is the for getting rid of t that has worked t

First, we do no on the farm, and, need to employ d get rid of them. are all equipped which are cleaned without fail and pl lime spread around roosts.

Spraying Every two weeks ed and the pen sp

floor in every erac a solution of zenole is applied by a spi rel and mounted or with handle attach operate, easily mo place, and with t different noza trouble to force th job, and can be d little expense. Or for nests and t shingle shavings.

Every Saturday the one-horse trush sprayer, a box of wide shovel, and houses, not forget for bedding. At year these build with roosts, brood moved

First everything scraped, then with the door, is spraye tom, after which everywhere. This healthy odor, but tirely against the mite

In keeping poult



A Pota THE road to co

The road to co often a tho Club at Hill Co., Ont., has ha stony turns in the started out with 15 ed its first season retiring members ample opportunity were absolutely de tive spirit. The n with 16 members. handled eight car 4,300 bags, at a c \$132 profit, or \$1 this profit the mor Company, Limited serve and the \$10 the shippers in business done. divided after pay ket price for potal or three cents mor sion 10 cents extra bers

The secretary, says: "On the wi been a howling that's my view. there are plenty 'Wait, oh wait, ti sale and then wh loss ?' Even our talks that way. I is father to the th will prove whethe

ber 9, 1915



ajority of gar bone meal or ne most econoarge content of not give as per-ph osphate. to 500 lbs. to be sufficient, ually so over-hat it would be ther with manyears and



Layers

., Guelph, Ont. breed of poul. to this quesat it is not so d as of strain. Select the you and then n of that breed ld not select a

else had done not make the

reed unless the

nt to get a gg production. t will produce t worry wheths we must have quickly. If a cold weather, hen on will be ny months be-g from it. I heavier breeds in the spring a laying stock in April, or n given good y. Leghorns seks later than then start to

production, it egg producing , rather than lways aim to rom flocks that winter layers. a very impornter egg pro system of the In our work ullets collapse rain of heavy I may say, ly, d head devel mo character. bird of conbroad, deep with room for

Lice

ton Co., Ont. this time of journals and ing advice on nites and lice. of dollars are rs with small ly curtails the

September 9, 1915

ag amply to a great extent, but kills is cleanliness. Keep good stock, give many, many young chicks; and people close attention, "be on the job." These canct understand the cause of their are essentials to success. death. Here is the best recipe I know for getting rid of these pests, and one that has worked to our entire satis-

faction. First, we do not allow these pests as the farm, and, of course, do not seed to employ drastic measures to get id of them. Our breeding pens are all equipped with drop boards, which are cleaned off every morning without fail and plenty of fine slacked ince pread around on this and on the

a solution of senolerum and water. This is applied by a spray pump on a bar-rel and mounted on two hicycle wheels, with handle attached. This is easy to operate, easily moved from place to place, and with twelve feet of hose and different nozales we have no trouble to force the solution, into the furthest corners. This is not a lengthy pitt angeness. Orderse horoughly for pitt angeness. Orderse horoughly for the next solution of the solution of the feet next solution. shingle shavings.

shingle sharings. Every Saturday afternoon we take the one-horse truck equipped with the sparer, a box of lime, a scraper, a wide shovel, and visit the colony boxes, not forgetting to cut straw for bedding. At this season of the year these buildings are equipped it south broadwar having bean rewith roosts, brooders having been re-

mored. First everything is cleaned out and graped, then with the hose through the dor, is sprayed from top to bot-tem, after which line is applied everywhere. This not only gives a healty odor, but guarantees you en-tirely against the inroads of the red with

In keeping poultry, half the victory

FARM AND DAIRY

Why Remain Poer

GET-RICH-QUICK men of every class should get a few pointers from the following prospectus of a goose farm, which is taken from the New York World:

Incorporate for two years only, with capital 1,000 geese-\$1,000,

Each goose lays an average of three eggs per week, or 156 per year. Do not sell any eggs, but incubate them, thus raising in the first year

Them preserves means. Spraying the Pens Every two weeks the litter is chang. ad and the pen sprayed from roof to foor in every erack and cervice with bo did, leaving with the original capital asolution of senoleum and water. This a total of 80,000 geese. These will asolution of senoleum and water. This a total of 80,000 geese. These will be in applied by a spray pump on a bar-lay 166 eggs each, which will be in-rel and mounted on two bicycle wheels, the second year 12,451,000 geese plus second year 12,451,000 geese plus and reserve the second year 1 ganders sold first year, 77,000; total, 12,558,000.

Each goose will produce 2 lbs. feathers, 25,116,000 lbs. feathers, at \$15 per

lb.By-products

7,534,800

each 10,046,400 dozen goose quills for toothpicks, at 10c per

dozen 1,004,640

283 555

\$404,399,995 Less original capital.\$1,000

75,000



A Potato Club

THE road to cooperative success is often a thorny one, and the Club at Hillsburg, Wellington Co., Ont., has had experience of the stony turns in the road. This club started out with 12 members and ended its first season with nine, the three retiring members having first taken ample opportunity to prove that they were absolutely devoid of the coopera were absolutely devoid of the coopera-tive spirit. The new year was begun with 16 members. So far the club has hardled eight car loads of potates, 4,300 hags, at a cost of \$87, netting \$132 profit, or \$16,50 a car. From this profit the money paid for a share in the United Farmers' Cooperative Commun. United was hold in ra-Company, Limited, was held in re-serve and the \$107 divided -amongst the shippers in proportion to the business done. This dividend was divided after paying the local market price for potatoes, sometimes two or three cents more, and on one occasion 10 cents extra, to the club mem-

The secretary, R. D. Nodwell, says: "On the whole, the season has been a howling success. Of course On the other side, that's my view. there are plenty of men who say, Wait, oh wait, till you make a bad sale and then who will stand for the los?' Even our local bank manager talks that way. I think that the wish is father to the thought. Time alone will prove whether our board has en-

ough business judgment to steer clear of unreliable buyers. Anyway, who stands for the loss of our business men in any case? In the long run, We, Us and Company, of course."

News from New Ontario

E LITOR, Farm and Dairy,-Just to let our friends of the cooperative fraternity know that away up in Algoma there are live people who like progressive neighbors of the older province, I am writing a short letter which you are at liberty to publish if you wish.

A short time ago Mr. Morrison, secretary of the Association at To-rohto, visited us and gave our club a splendid start. You will know it as Bar River Farmers' Club. We have a live president in Mr. S. Rudell, and

We meet the first and third Wed-nesday in the month, have rented the hall in our neighborhood, and taken and in our neighborhood, and taken one share, which is about all sub-scribed and paid in. Of course, we are only feeling our way so far, but we expect to get down to business in a short time. We have a fine rich country, capable of producing splencountry, capable of producing splen-did crops, and our people are pro-gressive. We purpose letting our friends know how we are getting along from time to time through your valuable paper.-W. H. Evoy, Bar River, Ost.



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FARM AND DAIRY

OBONTO, September 6.-Trade

(18)

802

Tonova i se a serie de la seri

WHEAT.

WHAT. The further step in wheat this week is reported to be on account of the freerese morement in the West and the larger supplies of both spring and whiter wheat is eight. It is then writil the Dardsanelies will be opened when the alities will have as much wheat as they can take care of, No. 1. Northern anot wheat is used 31.6 is 1.641, No. 2.82.0, 550; islehy, to use, the to sps: spronted or smuity, fix to 500. COARSE GRAINS. COARSE GRAINS.

Quotations: Ontario oate, No. 2, Sio to Sio, No. 3, Sio to Sic: new cats, 38c to 40c; American corn, 84%c; other grains momin-al, At Montreal, cats, C.W., No. 3, is quot-Sie; extra No. 1 feed, Sio; local white, 45o to 47c; corn, 91o to 92c.

MILL FEEDS.

Prices on bran and feed flour dropped slig.tly during the week. Bran. 806; shorte, 829; middlings, 830; feed flour, \$1.65. At Montreal bran is quoted, 827; shorts, 828; middlings, 833 tc \$54; moullie, to \$40. HAY AND STRAW.

HAY AND STRAW. A stoody business is in progress in new hay. Owing to the decline in the prices of lasy is itsel in the decline in the prices of lasy is itsel in the decline in the price of lasy is itselven in the set of the set the general optimis will have a last have general optimis will have a last have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the set of the set of the have a set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the the set of the the set of the set of

EGGS AND POULTRY.

Receipts of eggs at Montreal during the week were 10.756 cases, against 6.156 cases the same week last year. The total re-ceipts from May 1, 1915, to date were 288-

GUERNSEY EULLS A few choice young animals for sale Buff Orpington Eggs for hatching Write for prices. R. R. BLACE Highland View Dairy, Amherst. N. S.

AYRSHIRES

SUNNYSIDE AYRSHIRES

Imported and Home Bred. Are of the choices breeding of good type and have been selected for production. THIME Young Bulls dropped this fall, sired by "Nether Ball Good times "-2564-(Imp.), as well as a few females of various ages, for sale. Write or come and see.

J. W. LOGAN, Howick Station, P.Q.





di cases as compared with 25.39 has year. The market is firm, the more active demand for export hefting is feature. Epo-ial eggs in carious are here quoted \$64 to 250, cattras, bio 1500; No. 10, new-lind, 250 Poultry quotations follow: Old fowl, live. Bic, dreesed, 156 to 156; apring brollow, live, ido to Tie; old turkeys, live. 156 to 10°; dreused, for to 250, dualing, live. 156 to 10°; dreused, for to 250, dualing, live. 156 to 10°; dreused, for to 250, dualing, live. 156 to 10°; dreused, for to 260; dualing, live. 156 to 10°; dreused, for to 260; dualing, live. 156 to 250; dreused, bit arkeys, dreuse dual to 250.

HIDES AND WOOL.

Hides, flat, cured, 17c to 18c; part cured, 16c to 16%;c; call ekina, cured, 18c to 19c; part cured, 17c to 18c; deacona, 75c to 81.10 each; lorses, take-off, No. 1, 83.75 to 44.25; No. 2, 82.25 to 54.55; No. 2, 82.25 abc-right and the second second second limble, 65c to 81.25; horebalar, 35c to 35c

a lb. Wool, washed, combing fleece (course), 360 to 416 a lb; washed, meditum, 460 to 416; tab washed, conree, 360 to 316; fine, 423 to 430; washed fleece, fine, 460 to 455; washed rejects, 356 to 356; unwashed comb-ing fleece (coarse), 396 to 316; unwashed medium, 316 to 326; unwashed fine fleece, medium. 3

FRUIT AND VEGETABLES.

Thimbioberries, box, 60 to 80; black cur-rants, 11 qt. bki, 81,20 to 81,30; bluober-ries, bki, 81,50 81,36; apples, 11 qt. bki, 20 to 460; pears, 11 qt. bki, 460 to 660; peachas, 11 qt. bki, 460 to 660; plausa, 11 qt. bki, 460 to 660; polatose, Ontarioanew, 360 a bag; tomaces, 256 to 360; coblaug, erate, 81; colory, doa, 256 to 360; corni, doa, 60 to 250.

DAIRY PRODUCE.

Board to the a fither to rough a series of the series of t

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LIVE STOCK

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KORNGOLD IMPROVED ENGLISH YORKSHIRES Boars and Sows of breeding age. F. J. McCALPIN, Korngold Stock Farm, GAMANOQUE, ONT.

SUMMER HILL OXFORDS Flock established many years Rams and Ewes for sale in any quantity, all recorded. Strictly as gracies has by order. PETER ABRELL & CO., Proprietors, TEESWATER, Ont. P.O. Box 564 and C.P.R. Station.

and come to meed, 85.0 to 40. Quotations on lambs elevatedily declined, and at the end of the week, lambs, pear-lings, light, yours at 65.0 to 87.80 permit to 85.00, heavy abserp and bucks, 84 to 82.0 unless to 83.00 than the week to 83.00 meeting 85.0 to 85.00 leave were shipped than the week previous Peaclers are now quoting 85.0 to 85.0 fob, country points, and a so to 40.00 meeting bucks, 84 to 85.0 meeting 85.0 to 85.0 meeting bucks and a so to 40.00 meeting and a so t



OUEBEC

MISSISQUOI CO., QUE.

MISSISQUOI CO. QUE. PERLIGIGINENG, Aug. 30. — The has record year good in this section and some farms yielded an extra large error, which was stored in evod condition. Harvesting is extra heavy error but are bidged hadly. Showery, weather has reistried the har-yeating but no grain has grounded. Cord forage, if not much grain. Frosts on the year and the sector of the sector of the did not kill much except occumbers. The hight has kill such cace to come harm but did not kill much except occumbers. The hight hose hill -C a. W. CMTARIO

ONTARIO

MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT." APTN, Goyt 2.-Fail wheat seeding is again here and finds poor preparation. but made work on the ground impossible. Some early ploved Ballows have grown to grass and works on the ground impossible. Some early ploved Ballows have grown to grass and works on the grown to grass and works on the grown to grass and works on the grown to completed yet. Wheat is bringing from water the present the bringing from WATERLOD CO. WY. WATERLOO CO., ONT.

WATERLOOP G.A. ONT. WATERLOOP AND. A set 3. In-investing is grown water finishes, while others will have noise that the set of the set of the set of the set will be the set of the set of the set of the set where and having vector housed in fairly word had to be out one way. None wheat was and haring were housed in fairly word had to be set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set week a bot of airs were have the set of the set of the set were the set of t

GREY CO., ONT.

HELY CO., ONT.
TOTATULER, Aug. M.-We are herring for the farmers. Some of the grain is a provide the second provide t

HALIBURTON CO., ONT.

HALIBURTON CO., OAT. KINNOUTS, Aug. 20.-The frost on the 26th did a great deal of damage, complete-by Hilling pointoes and courts in places, beadee all tender vegetables. The contin-tion, smaller growth of the start was an Al-orop. Buyers are paying 50 to 50 for two year olds, 50 to 50 for eventings: caives are at a premium, 53 to 55 hoing paid i namb. 56 to 57.58 ext. pointsee, 56 to 56.75 ext. places. 56 to 56.75 ext. places. 57 to 20.0000 for a ho-1.4.8.7. 50 to 20.0000 for a ho-1.4.8.7.

BRITISH COLUMBIA

NEW WESTMINSTER DIST., R.C. CIVILLIWACK, Aug. 36-The weather during the past few days has been very, very smoky, forgy and dry. Rarresting is almost over for another year. Four ma-chines are bury harvesting this press. For avoid the start of the past of the start avoid the start of the past of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start avoid the start of the start of the start of the start avoid the start of the start of the start of the start avoid the start of the start of the start of the start avoid the start of the start of the start of the start avoid the start of the start avoid the start of the start of the start of the start of the start avoid the start of the start avoid the start of the st NEW WESTMINSTER DIST., B.C.

You don't need to go two miles from the eplendid farm at the Guelph Agricultural

GREAT DISPERSION SALE.

CARTACLE ALTERPTICAD SALL
CARTACLE ALTERPTICAD SALL
Cartage and the state set such a harmonic and the state set such a harmonic and the state set such a such as a such a

ANOTHER RECORD BROKEN.

ANOTHER ELECTRO REGEN. Another and to be able to report the form of the producing in the result to ever any producing in the series the deput not less than 240 days from the deput not less than 240 days from the deput of the far from 407 lines in days in the days and legge the far of days from freehening. Is it wings a series of the days of the far of days from freehening. Is its wings a series of the days of the far of days from freehening. Is its wings a series of the days of the day is wings a series of the days of the days wings a series of the days of the the days of the the days of the the days of the the days of the the days of the the days of the the days of the the days of the the days of the days

ONTARIO CROP STATISTICS.

ONTARIO CROP STATISTICS. THE following statistics of the prin-show the accessing as compiled from the principal sector of the statistics into the sector of the statistics into the sector of the statistics and the plaids as certainsted by a figure and the plaids as certainsted by a figure and the sector of the statistics are been as a plaid of the sector of the statistics and the plaids as certainsted by a figure and the sector of the sector of

27.9. Onts: 2.871,755 mores, 119,816,957 bush, or 41.7 per acre, as against 2,776,883 acres, 103,554,322 bush, or 37.3 in 1914. Average is a

and part dott, an entreme toya Average and a set of the set of t

and 16.068. There are 3.560.420 acres of cleared land devoted to pasture: 256.217 in summer fai-low: 258.255 in ordelard: 25.445 in email fruits: 10.776 in vineyard: 37.774 in farm products: 40.613 in rape; 5.354 in fas. I-563 in tobacco (Besce 2.526, Kent 1.774.)

September 9, 1

Winter or S

The E

N these days of Levery class of for dairyman who f results from the fe losing proposition is possible to wast feed through over-f as easy to decreas the dairy herd by is also possible to turns from the an by not having the balanced. ly the most commo

It is well known od influences the that an animal ca advantage. A st produced by overand other starchy up instead of gro has not received s and blood-making up a big frame. foods and you pro It is just as easy by thus over-feed of food as it is under-feeding. proposition on wh and money, The Exce

In the productio is identically true system in produci different foods o one, it is cast as manure pile. The anced ration for the food she take loss of all of any be in excess, beca the cow discards then is the great why we as dairy a ration for our possible to what

milk production. The starchy The starchy in excess in all a farm. Thus the feeds; he largely tend to on the other ha much smaller It is ex grains. ly essential in th amount of rough etc., that a cow converting food very largely on foods she is give The Cheap

Alfalfa is the which the dairy tein. Hence it' ing qualities. good; bran con of digestible pro also rich in pro-cent), and is versally. It has ing very readily and the oil it o laxative, keepin healthy and vis dairyman in O when he wants up: to cows, horses, ake will do it

thing. In the produ records (20,000 that every sin oil cake in hi dairymen who during the wi feeding it in s through the s milk flow stea Some Pri

"With the e lieve oil cake dair tities on dair any of the ot The reason for



our readers to them. Note particu-larly the advertisement of the Halli-

day Company of Hamilton. This firm is the successor of the Mail Or-

der Department of Stanley Mills & Co., and has been favorably known for many years. The information we

have received regarding this roofing

leads us to believe that the offer is an

unusual one. It is not possible to mention the name of the firm that makes this roofing for the Halliday

Company for obvious reasons, but we

may say that the makers are well known and thoroughly reliable. In mentioning Farm and Dairy when

you write our advertisers, you share

tised in this publication. Moreover, we will guarantee you honest treatment as a reader from every firm that uses our columns. Put "From F. & D." at the foot of each letter when

our confidence in the good

you write.

, 1915

hiftless farm-hat the plac-m here and ne would d, listrict rer.e. od, cost, less nearly. Stu-nearly. Stu-l colli ges and e also carry-sollegy to the inster of Agri-

SALE.

SALE. such a herd e one owned mstown, Que., Mr. Sangster's ord for itself he show ring, t in the good The total re-li02.50, or an head. Some re as follows: head. Some re as follows: black, Ottawa; McMartin, St. cen Princese Ont.; Lyla of Craig; Helena John Scriver, ohn Serive R. J. Craig W. T. Tret of Pleasan Onslow, N.B. MoElroy Onglow, ert MoE auty of F alrane; I J. Craig MoMartin Craig: Dot D. MeMarti D. Me Dicks Dickson: An-Martin; Pleas-ames Winter, 5425, J. D. Me-A. E. Dickey; ralg.

ROKEN o report that in broken the

in the senior islon covering 240 days from seven consect-407.8 lbs. mile of 5 years. T her test \$27 prior record, ning, is 16.761 c. Her sire is her day us her dam is for dam is 6737. She was fr. E. C. Brill, fr. E. C. Brill, senior three-nths division" tje Paul 5th 245 days fras from 425.6 lbs Supt. A. R.

TISTICS.

of the princi-tario for 1915, compiled from somplied from y farmers to stries and the cross and exper-nts, who give conditions on will produce

or as against , and 20.9 in for 3 years, 3,410.190

acres. 3,410.197 s against 118, d 18.3 in 1934 5,355 bush., or 9,473 neres, 18,-1914. Average

6,967 bush., or 2,776,883 acres, 1914: Average

bush, or 154 acres, 2.35.55 rage 15.4 bush, or 55 acres, 1.05,55 errage 19.2 ,873 bush, or 55 acres, 1.05,55 Average 17.1 waing alfalla, s, or 1.25 per acres, 3.49,75 rage 1.45 rogs for which are been made s: Buckwheat. 1914 orn for ecorn for silo,

1914: corn for corn for sile, est, 173,934 and 799 and 50,663: ; carrots, 24,39; d 95,371; mixed alfalfa, 165,234

of cleared land in summer fai-3,443 in small 87,774 in farm ,354 in flax, 5/ Kent 1,774.) Winter or Summer, Oil Cake Will Increase the Milk Flow the Milk Flow The Experience of Prominent Dairy Farmere

The Experience of Pro Tevery class of feeding prices for rearly class of feeding the testis from the feed he users, has a losing proposition on his hands, the is possible to waste a great defined the dairy herd by under-feeding. It is users to decrease the profits from the dairy herd by under-feeding. The urss from the amount of feed feed by not having the ration properly labeled. This latter loss is probab-by the most common of the three.

balance of common of the three. If the swell known that one kind of for influences the amount of another arountage. A stanted pig can be arountage. A stanted pig can be and other starchy food. He fattens has not received sufficient of the ash and blood-making materials to build m a big frame. Mis properly hile up a big frame. Mix properly his up a big frame. Mix property his foods and you produce a big animal. It is just as easy to produce a runt by thus over-feeding with one class of food as it is to produce one by under-feeding. Neither is a paying proposition on which to waste time and money. The Excess Not Used

In the production of milk, the same is identically true. The dairy cow's system in producing milk can use the system in producing milk can use the different foods only in certain pro-portions. If there is an excess of one, it is cast aside and goes to the mared ration for her system from the od she takes. You pay for the loss of all of any one kind they may loss of all of any one kind that may be in excess, because, as stated above, the cow discards all the excess. This the cow discards all the excess. This then is the great economical reason why we as dairymen should provide a ration for our herds as nearly as possible to what the cow requires for

a ration for our network as negative, for milk production. The started pools are invariably in excess in all the feeds are invariably in excess in all the feeds areas of a farm. Thus harder to digest and the tend to produce fat. Protein much smaller quantities in the prints. It is expensive but absolute by essential in the ration. In fact the amount of routhage, startchy foods, etc., that a cow's system can use in converting food into milk depends routs of routhage. Startchy foods, etc., that a cow's system can use in converting food into milk depends routs of routhage. Startchy foods, etc., that a cow's system can use in converting for into milk depends routs for signer to balance her focd. The Cheapest Protein of All Alfala is the cheapest form in the

The Oheapest Protein of All Alfalfa is the cheapest form in which the dairyman can secure pro-tein. Hence it's great milk produc-ing qualities. The other clovers are good; bran contains over 13 per cent of digestible protein. Linsed cake is also rich in protein (about 29 per cent), and is thus fed almost uni-versally. It has also the virtue of be-ing very readily digestible, palatable and the oil it contains acts as a mild harative, keening the digestive organ laxative, keeping the digestive organs healthy and vigorous. There isn't a lakative, reciping vigorous. There isn't a dairyman in Ontario but knows that when he wants to hold the milk flow uo: to "islick" up the coats of his cows, hores, etc., that a little oil cake will do it the guickest of any-

thing thing. In the production of long-distance records (20,000 lbs. or over), we find that every single dairyman includes oil cake in his ration. Scores of oil cake in his ration. Scores of dairymen who have fed it for years during the winter season are now feeding it in smaller quantities right through the summer in keeping the

brough the summer in keeping the milk flow steady. Some Practical Experiences "With the exception of bran, I be-lieve oil cake is fed in larger outan-tities on dairy farms than possibly any of the other commercial feeds. The reason for this, is in the fact that

it is invariably used as a flesh former when the cows are dry in addition to forming a part of nearly every milk-producing ration. "We use oil meal quite liberally in

our record work as it is one of the most palatable as well as the safest feed we can use."

feed we can use." This experience from Mr. G. A. Brethen, of Norwood, who has pro-duced a number of world records with his Holsteins, should be convincing as to the value of oil meal in every ration where heavy milk production

abon we have a seried. Another prominent dairy firm of Ontario, S. Lemon & Son, of Lyn-den, find it invaluable as a part of the program of the year: "We their ration throughout the year: "We have fed oil cake meal for the last five years. We feed from two to three have text of class mean for up are the point of the feed from two to three pounds a day all winter long with the ensilage. We diso feed from one to two pounds a day in summer to the cows in R.O.P. work. We would not like to be without oil cake unless it went exceedingly high in price."

Practically all the oil cake used in Canada is manufactured here. It is so universally used that our readers will be interested in the process of manufacture as the writer was privileged to see it a few days ago at the plant of the Canadi Linseed Oil Mills

at West Toronto. Saskatchewan, Alberta and Mani-Saskatchewan, Alberta and Mani-toba are the rereats: flax producing sections of Canada. Practically all the seed used in the mills comes from the West. It is larger, plumper and heavier than the Ontario grown, the latter being pulled for the fibre before the seed is fully mature. The flax as taken from the car to the elevator, carries abut one put

The flax as taken from the Car 10 the elevator, carries about one per cent of dirt, chaff, etc. The cleaning process consists in being massed near a revolving fan which licks off all the dust, light chaff, etc. A screen them, removes the coarser particles not tak-en up by the fan. A screen them takes out the corn, oats, wheat, grit, are then we he mixed with it. etc., that may be mixed with it. The Next Step in the Process

The Next Step in the Process From the cleaners it is transferred through conveyers and fed into the grinders or crushers. These consist of alternatine, smooth and corrugated rollers. The flax is thus crushed three times in the process and come out as the pure lineses and come rollers and the origin is and buy. A rocket feath homourt of this is used in finishing beef cattle and in dairy test work.

work. Some dairy feeders also use it in mixing with the oil cake. The pure-linseed meal as it comes from the crushers is quite warm, very oily and

crushers is quite warm, very only and not unpleasant to the taste. From the grinders it is again auto-matically conveyed to a large tank, where it is heated by steam (not to boiling), being constantly kept in mo-tion by the arms of a mixer. From the beater, it is automatically measured off into pans, and slightly measured off into pans, and slightly

measured off into pans, and slightly compressed into cakes on the two flat sides of which are linen or camel's hair press-clothes. In these clothes the cakes are placed in bydraulic presses and the oil is slowly removed by a pressure to the presses of the slower of runs from the presses to are the and there is failered oil. Is the slower oil are the warbown sforms of Oil Gake The hard cakes of meal from the

Various Forms of Oil Cake The hard cakes of meal from the presses are then removed and trimmed to about 31 inches long, a foot wide and a half inch thick. Each weighs and a half inch thick. Each winks about 10 lbs., and it is in this slab form that it is exported. The nutted oil cake, such as we know it, is made from these slabs by putting through

meal, the nutted cake is ground fine

The value that the British farmer places upon oil cake for feeding pur-poses is indicated by the fact that to-day he is paying \$10 and \$12 more per ton for it than our Canadian dairy farmers. If the British farmer can afford to pay a much higher price and still make a margin on the stock he produces, it is quite evident that there is still a tremendous field for this rich protein concentrate on our this rich protein concentrate on our dairy farms-as one shrewd farmer said the other day: "A handful of oil meal once a day throughout the year will not only keep your cows healthier bur will insure a more uniform flow of milk-and that at a profit." Lin-seed oil cake is an exponsive con-centrate. It must be fed judiciously. Bor is helpening a ration assisting But in balancing a ration, assisting in the use of more of the cheaper foods, there is nothing we have yet discovered that is quite so healthful and palatable for the dairy cow.

protect its readers. Where it is younger possible we endeavor to investigate school?

You Share our Confidence Father-"Robert, why is it that she T is the duty of a newspaper to little Smith boy, who is so much protect its readers. Where it is younger than you, is ahead of you in

Smarter Folks



NORMAN MONTGOMERY, Auctioneer

804 (20)

FARM AND DAIRY

September 9, 1915



A Household Premium



OUR 40 PIECE TEA SETS ARE STILL IN DEMAND

Many of our Womon readors, realizing the exceptional nature of this offer, are securing their tea set before the supply is exhausted. We have still a number of the sets loft and those who desire them, should act promptly. The opportunity for securing such a dainty, attractive and serviceable tea set on such easy terms may not last long.

Remember, we are offering them on the same terms as before the war. There has been a sharp advance in porcelain ware and they cost us considerably more than they did formerly. However, we have decided to pay the difference and to offer them on the same terms which have proved to be so attractive in the past. The only way to avoid paying the increased price, is to

Secure the Set According to Our Plan

The set consists of 40 pieces, is in semi-porcelain and nicely decorated with Roscs. It is made up of 12 cups and saucers, 12 tea plates, 2 cake plates, 1 cream jug, and a slop bowl.

If you ever feel, when entertaining your friends, that your table does not look as well as it should, that your tea service is out of date, you should secure this set without delay. It is a set that any woman should be proud to have on her table when her friends drop in for tea.

Hundreds of "Our Women Folk" are now the proof passessors of this valuable premium which has cost them nothing but a little effort. We know that there are still a great many who would like to have this set. They are still available on the old terms. All you have to do is to call up over the telephone four of your neighbors who are not subscribers of Farm and Daiyy, and ask them to become subscribers. They will be glad to do it. Send in the four new subscriptions to us with \$4.00 to pay for them and we shall have your tes are shipped to you without delay.

