

FARM AND DAIRY

The Provincial Winter Fair

In view of the high position now taken by the Ontario Provincial Wint-

er Fair in the scheme of agricultural education, it is of interest at this

education, it is of interest at this time to review the past history of the Fair. Like every other great move-ment that has had its beginning in advance of public opinion the early days of the Fair brought many dis-appendiments to those who had its

In 1883 the Fair started under the ame of the Provincial Fat Stock show. The first show was held un-

Show. The first show was held un-der the joint auspices of the Agricul-tural and Arts Association and the Toronto Electoral District Agricultur-al Society. Each contributed \$500 towards the prize list and each was to ahara alike in the profits or los-ses. The Show was held at Toronto in the athles of the Compareign Hotdl

ses. The Show was held at Toronto in the stables of the Connercial Hotel. The result was considered to be a success as there were 184 entries and \$1,339 were paid in premiums. Following this the Show was held in successive years at Guelph, Wood-stock, Guelph and Toronto. Each year the results appeared to become less satisfactory until at Toronto in 1887 the entries were down to \$1 on which \$500 was paid in premiums.

which \$500 was paid in premiums. No shows were held in 1888 or 1889

but in 1890 a start was again made and the show was held at Guelph where a successful show had been run-

ning for a number of years under the management of the Guelph Fat Stock

Club. In 1892 the entries were 171 and the prizes paid, \$1,453. By 1895 the entries reached 611 and the prizes \$3,491. Previous to this time little had been done in the way of giving practical lectures, but in 1896 the lectures Lecame a feature which has increased in popularity each year size that time.

The next great advance was made The next great advance was made in 150 when permanent quarters were secured for the Show in the City of Guelph. Previous to this time the Show had been moved from place to place but it had long been felt that the work could not be carried on to do

the work could not be carried on to do the most good unless permanent build-ings, properly fitted, were secured. A splendid stone building of two stor-ies was erceted on the market square, the ground floor space enclosed with-in the walls being about one acre. Provious to this Show arrangements were completed for the amalgamation of the Provincial Fat Stock and Dairy Show and the Ontario Poultry Show, the combined exhibition heing named

the combined exhibition being named The Ontario Provincial Winter Fair.

When the new building was planned

it was thought ample accommodations were being arranged for to provide

ed to \$9,513.00. During the past summer a magnifi-cent addition was erected beside the old building which will not only pro-vide for the expansion of regular de-

partment to be added to the Fair. With horses added to the exhibits the

Fair will be representative of all clas-ses of farm stock.

ses of farm stock. Aside from the direct educational value that the Fair has been to the farmers of Ontario its influence has been very wide-spread. Fairs modeled

neen very wide-spread. Fairs modeled along similar lines have been establish-ed in Eastern Ontario, in the Mari-time Provinces, Manitoba and all the other provinces of the Dominion are

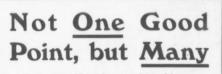
horse

partments but will enable a

since that time

welfare at heart

Show.



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other provinces of the Dominion are planning to soon have winter fairs of their own. The Fair has demon-strated that an exhibition can be suc-cessfully conducted solely for educa-tional purposes with all the so-called "attractions" eliminated. It is desirable to mention the name of this publication when writing to advertisers

November 4, 1909.

The National Dairy Show

Ed., Farm and Dairy,-Two things nat impressed me most in the Milthat waukee Dairy Show were :--

The freely expressed opinion The freely expressed opinion of many prominent dairymen that the dairy industry of the United States was on the eve of the greatest de-velopment it has ever known. There are people who think that the dairy industry in the United States has declined because their exports have become almost nil, but as a matter of fact it is claimed that they produce over \$800,000,000 worth of dairy proevery year. duce.

Looking around the Dairy Show I was, in the second place, impressed with the great improvement which has been made in the character of the dairy machinery exhibited. This was particularly noticeable in connection with apparatus for the pasteuri-zation of milk. The improvement consists chiefly in more durable material and better workmanship, with more attention paid to facilities for perfect cleaning.—J. A. Ruddick, Dairy Commissioner, Ottawa.

Re the Establishment of a Navy

Ed., Farm and Dairy,-It is expected that the Canadian Government will, ed that the Canadian Government will, at its next session, bring forward legis-lation providing for the establishment of a Canadian Navy. It must be apparent to all that the Government has received no mandate from the people to do this, and that such a mo-mentous change in the traditional polthe Government's proposal should not be made without long and serious consideration.

In such a matter it is only fair that something tantamount to plebiscite be taken; and it would be morally a criminal act for the Government to decide such a question hastily and involve Canada in everlasting obligations with out referring the whole matter to the country. All citizens can at least unite in this one demand; that the country be not involved in the military and naval system of the Old World without due consideration

Parliament meets shortly, and if anything is to be done, it must be done quickly. Farm and Dairy readers who thing that the proposal to build a Canadian Navy should be voted on by the people before adop-tion should write a letter to the Prethere are a short write a letter to the Fre-mier to that effect, and see or write their local members. The responsi-bility rests on each citizen, let him see that he does not shirk it.—W. C. Good, Brant Co., Ont.

were being arranged for to provide for the growth of the Fair for fully 10 years. Within three years, how-ever, the building was found to be uncomfortably crowded by exhibits and visitors. Since 1900 the attend-ance has increased from 10,000 to about 25,000. The entries at the last Fair numbered 5,003 and the prize money won by the exhibitors amount-During the next Sand Lands as They Used to be

Ed., Farm and Dairy,-An elder-lady, whose home is in Chicago, was lately paying the writer's home a visit. Knowing that her father once owned the farm in Durham Co., from which the picture in your June 10th issue the picture in your June 10th issue was taken, showing the effects of the blowing sand, on Mr. John Davey's farm, we showed her the picture, and she remembered the place very dis-tinely, having as a girl played around there more than 60 years ago. Once alse saw a bear, and at another time a flock of deer came running over that sprome she stick has the deer had long forms the stick has the deer had long er oblidren. er children.

Beautiful timber then grew around, and nobody thought of such a thing as sand ever blowing there.— James E. Orr, Middlesex Co., Ont.

Mr. W. W. Ballantyne of Stratford, Ont., the president of the Can-adian Ayrshire Breeders Association, adian Ayranire Dreeders Association, has just returned from a trip to Springfield, Ill., and to New West-minister, B.C., he having judged the Ayrahires at the former exhibition and the dairy cattle at the latter.

Issued Each Wee

Vol. XXVII

Three reasons w Ger HE movem

cuperate s not too ean There are thre recuperation of is that it is po have lands lying There is no need to argue this p that, extensive be, they are rea be exhausted. H plated plantation the wood will be that it takes a log size especially consideration; he

TO MATURE T On this point t est ignorance pres cause some sing on the lawn has most rapid progr must not believe forest of trees will the same manner.

Just to show y the kind of tree will grow well o lands are doing, I you the figures on of growth of Red ascertained by ou ents last spring s Lake Nipissing. Lest soils this tree for the first 100 y well as the White In 50 years you ma 13 inch trees that inch growth of diam 31/2 years, but in th 50 years it grows an additional five in diameter, or at the of one inch in 10 y one inch in 20 year one inch in 40 year lumberman looks fo 180 to 200 years old, have been one inch

This is on first-cl the rate on the poor elly soil, where this you will find that it 12 inch tree having a in six or seven years in 12 to 14 years for that, the rate sinks t and more. Indeed, ameter on this class

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Issued Each Week

Vol. XXVIII.

Only \$1.00 a Year

No. 44.

FOR WEEK ENDING NOVEMBER 4, 1909.

WASTE LAND PLANTING AT HOME AND IN FOREIGN COUNTRIES Dr. B. E. Fernow, Dean of Forestry, Toronto University

Three reasons why the waste lands of Ontario should be reforested. Some facts as to what France and Germany have done and are doing in the matter of reforesting their waste areas

THE movement that has been started to recuperate some of the lost ground is begun

not too early, and, let us hope, not too late. There are three reasons for beginning now, the recuperation of the waste lands of Ontario. One is that it is poor policy for any community to have lands lying waste instead of producing. There is no need for a rationally thinking citizen to argue this proposition. Another reason is that, extensive as our forest resources seem to be, they are really quite limited, and will soon be exhausted. Hence, by the time these contemplated plantations have grown to useful size, the wood will be needed. The third reason is that it takes a long time for trees to grow to log size especially on such poor lands as are under consideration; hence the need of early beginning.

TO MATURE TREES On this point the greatest ignorance prevails. Because some single trees on the lawn have made most rapid progress, you must not believe that a forest of trees will grow in the same manner.

Just to show you what the kind of trees which will grow well on waste lands are doing, I can give you the figures on the rate of growth of Red Pine, as ascertained by our students last spring south of Lake Nipissing. On the Lest soils this tree grows for the first 100 years as well as the White Pine. In 50 years you may have 13 inch trees that is one inch growth of diameter in 31/2 years, but in the next 50 years it grows only an additional five inches in diameter, or at the rate

of one inch in 10 years. Then the rate drops to one inch in 20 years, one inch in 30, and finally one inch in 40 years, so that the trees, which a lumberman looks for, of say 20 inches, will be 180 to 200 years old, and the average growth will have been one inch in nine to ten years.

This is on first-class soil. If you investigate the rate on the poorer, not yet the poorest, gravelly soil, where this species is specially at home, you will find that it takes 100 years to make a 12 inch tree having grown at the rate of one inch in six or seven years for the first 50 and one inch in 12 to 14 years for the second 50 years and after that, the rate sinks to one inch in 25 to 30 years and more. Indeed, a lumber tree of 20 inch diameter on this class of soil will have taken 250

to 260 years, or one inch in 12 to 13 years on the average to attain its size.

RMAND DAIP

RURAL HOME

TAKES 60 TO 80 YEARS

The White Pine grows very much like the Red Pine for the first 100 years, but on good soil keeps up the better rate beyond that age. Although in plantations they have grown one inch in three years and even in two years for the first 25 years, one inch in four to five years is nearer the average, and not many trees of this species, will exceed 12 inches in 50 years. Well grown trees, 100 years old average at best 19 inches, or one inch in six to seven years, and 20 inches at 110, then the rate falls to one inch in 12 years and stays there for a long time. By good management, however, log trees may be produced in 60 to 80

very different in France, nevertheless we can feel pretty certain that results in this country if the work is rationally financed and properly done will be of a like character.

The waste land planting in France refers to five different localities and comprises over two million acres of plantations, the result of a persistent policy for 60 years. The first region are the sand dunes in south western France-250,000 acres-and the so called Landes adjoining, some 2 million acres of shifting sands and marshes like those of Norfolk County, Ont. The fixing of the dunes was begun in a small way as early as 1786 with appropriations of \$10,000 to \$15,000 and finally \$100,000 per annum. By 1817 some 14,000 acres had been secured. Fifty years later, in 1865, 200,000 acres had been reforested, the total expense for planting, administration, etc., having amounted to nearly \$2.700,000 or \$13.50 an acre. Of this area 95,000 acres were then ceded to private and municipal owners for \$2.745,000 (\$30 an acre) and only 105,000 acres remained in the hands of the state. The sales have reimbursed the entire cost of planting and left a profit over

and above of \$120,000 and the present value of the State property-these useless sand dunes-secured by the persistent expenditures up to less than three million dollars is estimated at ten million dollars. In 1901 the first cutting was made and yielded \$92 an acre; better than 3 per cent. on the investment. The improvement by ditching and planting of the adjoining Landes of nearly two million acres was begun in 1837 by private individuals, who by 1853 had reclaimed 50,000 acres. Then the government stepped in with a broad gauge plan, building roads, railroads, drainage systems, and assisting the municipalities in reclaiming the land, making planting plans



Drifting Land that is a real menace to Mr. Tebble's Farm in Durham County, Ont.

During Lass test is a rest bester to an it the sand lands of Olark Township. Durham Go. ons, is the worst features of the whole situation in the sand lands of Olark Township. Durham Go. ons, is the way in which good productive call is being cover of up and destroyed for arcialing pur-period of the drifting sands. The send shows cover of up and destroyed for arcial purper-roadway where of the sand rig may be seen, and is rapidly a considerable distance, has filed pur-fer west side of this highway, bestroying the grain crop now threading to the field in the for-the west side of this highway. Means on the set of the sand Free arcustion everywhere. Mr. Tebble says that these sands will be his rimitation. -Photo by the Editor of Farm and Dairy.

It stands to reason that such a "long winded" crop is not attractive to private enterprise, but must rely on government interest to be started. indirect benefits from such waste inland planting, as a work of internal improvement are or ought to be sufficient argument for the government to undertake it, I do not undervalue the financial result which promises in the end to repay the undertaking with good interest. On this score we have the best proof in the experience of others.

WASTE LAND PLANTING IN FRANCE

The history of waste land planting in France, which has been done there on a larger scale than anywhere else, is most illuminating. While we may concede that labor conditions especially are

free of charge, the State itself and private individuals buying some 390,000 acres of the land to enable the municipalities to accomplish the improvements. This once poverty stricken district which a century ago was hardly inhabited-is now traversed Ly the densest net of railoads in France.

By 1907 with an expenditure of around \$10,500,-000 (\$6.50 an acre) 1,750,000 acres were reclaimed, 85 per cent. in forest, of which the state owns somewhat over 100,000, municipalities 185,000 and private owners the bulk of 1,500,000 acres. In 1898 the value of these holdings created from nothing was estimated at over \$96,000,000. In 1892 the average net yield was \$2.40 an acre, and since then has been rising, so that now an annual income of \$8,000,000 is the result. This from an

expenditure of ten million dollars. The trouble is to keep the fire out, which with the large private forest property is difficult.

REFORESTING BY PRIVATE ENTERPRISE

The third region of extensive waste land planting is that of the Sologne near Orleans, a sandy poorly drained plane on an impenetrable, calcarcous subsoil, giving rise to swamps. This district was once densely wooled, but by the end of the 18th century some million and a quarter acres had been devasted as fully as much of Western Ontario. A committee of private citizens undertook its reclamation, and some 200,000 acres have been planted at 85 an acre. An estimate of the value of these plantations places i: at \$18,000,000 so that lands which 50 years ago could hardly be sold for \$4.00 on acre now bring over \$3.00 as an annual revenue.

The fourth district lies on the arid limestone wastes in the province of Champagne. Here since 1830 by private enterprise over 290,000 acres were planted at a cost of less than \$10 an acre. The present stimpage value is figured at from \$50 to \$100 an acre, and yielding \$2 an acre revence, this property is estimated at \$10,000,000.

We have then 2 1-3 million acres, recuperated by an expenditure of less than 15 million dollars to now represent a capital of 135 million dollars and an income of around 10 million dollars or say at the rate of 7 per cent.

The fifth and last phase of waste land planting, which has been going on for the last 50 years, the most noted, the most expensive and the most troublesome is to repair the damage done by destroying the forest cover of slopes in the Alps and Jura mountains. Here the destruction of an area of 1,000,000 acres of mountain forest by axe, fire, and grazing during the revolution has, by the resulting floods destroyed some eight million acres of agricultural land in the valleys. Here sc far only expenditure and little returns, except the indirect one of reducing the floods have resulted. The State is acquiring the wasted land at the rate of 25,000 to 30,000 acres a year, reforesting it by degrees. The budget for 1902 contains \$1,000,000 for this purpose, and annual budgets amounting to between \$500,000 and \$600,000 are the rule. Altogether by the year 1900 the State had secured over 400,000 acres at a cost of \$5,000,000 and had planted 218,000 acres at a cost of \$8,000,000, the total expense at that time being \$13,000,000 outside of subventions to municipalities and private owners for similar work. It is estimated that with the expenditure of \$600 .-000 per annum the work of recuperating these waste lands and controlling the devastating torrents may be finished by 1945.

Here, then, is a nation, and under republican form of government at that, which has not been afraid to pursue a consistent and persistent policy of internal improvement by waste land planting, with most satisfactory financial results.

REFORESTING IN GERMANY

That these policies find favor not alone in republican France but are also practised by monarchical Germany may be learned from investigating conditions, especially in Prussia.

It is well known that the German governments have for more than a century practised rational forestry on their State forests and have during that period recuperated the waste areas and slash of former wasteful times so that now these State forests pay annually from \$2 to \$5 an acre net, and the revenue is increasing yearly, Prussia from her seven inilion acres of State forest deriving a net revenue of 18 million dollars.

Private forest owners, on the other hand, as anywhere else have been wasteful and neglectful and have created waste areas. The extent of these, capable of reforestation, in 1900 were estimated for Prussia alone at around 1,300,000 acres. The government 40 years ago entered upon the polley of acquiring by purchase or exchange such waste land areas, mismanaged forests, abandoned pastures and farms, and reforesting them.

Just as their naval program which frightens Great Britain and the colonies so moelleasly, proceeds on a well digested, long sighted plan, which was conceived in 1901 and is to hold good until 1912, so did Prussia set aside from time to time large sums to carry out its waste land policy. In 1902, when already soom 320,000 acres had been acquired and all but 90,000 of this acreage reforested at a cost of over \$6,000,000, a further appropriation of \$25,000,000 was voted for the continuance of this policy. In the five years from 1902 to 1902 some 58,000 additional acres were



F. though sometimes it gets up to about 50 degrees. The bees should be troubled as little as possible thoughout the winter. From the 25th of March to the 10th of April, as soon as the weather is suitable for them to fly, 50 degrees in the shade on a calm day, is the proper time to place them out for the season.

The Renewal of the Herd

G. H. Blair, Carleton Co., Ont. There are two methods in vogue for replacing cows that have died or outlived their usefulness. The farmer may either buy his cows freshly calved

whenever he needs them or he may breed his own heifers for the replacement of his old or unprofitable cows. The advantage of the former method lies in the fact that the farmer does not have to incur the trouble and expense of rearing and feeding his heifers before they have reached their period of usefulness. To effect this, however, there is the element of risk that must be assumed in the buying of milk cows that one has not seen before and which may be very deceiving. Moreover, in breeding his own stock, the dairyman CBZ a process of selection of the best heifers from the most profitable



"Molly Bawn," grade, 12, 160 of milk in 10 months

A living example of the possibilities of grades. A herd of such cows is worth stiving after. The cow plotur:d is owned by Edmund Laidlaw & cons, of Eigin Co., Ont., whose farm is a competitor in the Dairy Parms Compettion.

acquired, and about the same area reforested; that is to say annually 12,000 acres are turned into productive area.

There is nothing cheap about these proceedings, for the average cost of the land alone comes to \$17 and the planting to not much less. Altogether so far nearly 10 million dollars have been spent and some 300,000 acres recuperated.

In 1907 some 20,000, in 1908 some 13,000 acres were added and in the two years 25,000 acres planted. In the budget and for the forest administration for 1909 there are found \$1,825,000 for planting in general of which it is estimated about \$400,000 will be devoted to waste land planting, there being still 70,000 acres of the purchases remaining unplanted.

This shows you how far sighted statesmanship grapples with the problem of waste lands.

THE PROBLEM IN ONTARIO

Nobody, will of course, expect that the government of Ontario should at once enter upon a policy of waste land planting on such a scale as this. On the contrary, it is wise to start slowly and learn first how to handle such problems, but it should be begun at least with adequate means even for experimenting, and with the realization that it is as worthy a piece of internal improvement as that laid out for the Hydro-Electric Commission or the Railway Commission, or any other great provincial or national undertaking.

Wintering Bees

R. Lowey, Prince Edward Co., Ont. Our bees are wintered in a repository above the ground. We prefer an underground place if it can be kept dry as it is difficult to keep the temperature low enough above the ground, especially in a mild winter such as last winter. The bees are placed in their winter quarters as soon as we think they have had their last fight for the season. This is usually about the 8th or 10th of Noromber in Prince Edward Co., Ont. We keep the temperature about 45 degrees cows, much increase the productiveness of his herd

If a man were engaged in the cream trade I would advise him to rear his own heifers, as he has on hand quantities of skim milk that he could put to no more profitable use than that of feeding calves. If he were solling his whole milk from the farm, he would have much more difficulty and expense in raising the young stock, and whether he did this or not would depend on his own conditions and surroundings.

Feed and Care of Foals T. R. James, Middlesex Co., Ont.

Foals should not be allowed to suckle after five months old. They should be taught to eat grain at as early an age as possible. Having learned to eat and being well supplied with suitable and sufficient feed, the youngster will not miss its mother's milk, at least, to an extent where it will suffer any setback. A roomy stall or shed should be provided for the foal. Allow it freedom in a paddock or barnyard for several hours each day when the weather is favorable.

There is no one best way of feeding feals. Conditions vary in different sections and feeds that might be recommended would of necessity have to be substituted. As much good hay as it cares to east should be supplied three times a day, care always being taken that the allowance given is eaten up clean before the next meal. It is important that the manger and the feed box should always be kept clean. Where it is available, use well cured clover hay in preference to timothy. It contains much more nutriment, is more palatable and is more easily digested than is timothy hay.

For a grain ration, cats and bran are about the best available. While it is not desirable to have any young animal too fat, it is a rare thing 'or one to receive too much of a grain rations, prvided it is suitable and fed in quantities as are readily eaten and not left in the manger between meals. The quantity that the young:ter will clean up will soon be learned. With few exceptions, it will be found profitable to feed that quantity, as gains can be made cheaper on a

November

young animal will make good be considered The morning quart of oats of bran. If th of cut clover

prevent too ra fect masticatio a root of some mangel—and on may be oats a clean up before gested are for in feeding a fc judgment must

The matter o elnt feeds shoul sential to the bilimited quantity ed for the rooi for the rooi for the youngs before feeding, when the need that your treat in the future h difficult to over animal will be an by his feeding.

Economic Q

How much is How much milk produce each yes each year? Wha year? Of the l expenses and value per yes the manure? and manure pay are vital questio ing every individ who can answer each individual o cular No. 134, of tion at Urbana, w table given in th of cow economics.

or cow economics. The efficient cov money on a dairy the most remuner this reason even may result in som or even the best suspect the extent suspect the extent each individual covers up the loss covers up the loss



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young animal than on an older one. Since it will make good use of the feed it eats, what might be considered an excess is by no means wasted.

The morning feed might consist of about one quart of oats (preferably crushed) and one quart of bran. If these be mixed with a few handfulls of cut clover hay, so much the better, this will prevent too rapid eating and ensure more perfect mastication. At noon, the feed might be a root of some kind-carrot, turnip, sugar-beet or mangel-and one quart of oats. The evening meal may be oats and bran, as much as the colt will clean up before morning. Such quantities as suggested are for a well grown, hardy foal, though in feeding a foal, as in the case of other stock, judgment must be exercised by the feeder.

The matter of providing roots or other succueint feeds should not be overlooked. They are essential to the best health of the young animal. A limited quantity of corn silage is often substituted for the roots. Silage, in limited quantities, may be fed to advantage, though it is easily possible to overdo the matter. If water is not before the youngster at all times, always water him before feeding. Give attention to the colt's feet, when the need of such is indicated. Remember that your treatment of the foal will be reflected in the future horse. Any setbacks in growth are difficult to overcome. The value of the finished animal will be affected to no inconsiderable extent by his feeding.

Economic Questions Concerning Cows

How much is this cow worth? And that one? How much milk and how much butter fat does she produce each year? What profit will she return each year? What is the cost of her feed for one year? Of the labor? What are the other expenses and depreciation? What is the value per year of the skim milk? Of the manure? Will the skim milk, calf and manure pay all expenses except feed? These are vital questions for every dairyman concerning every individual cow in his herd. To those who can answer how much milk and butter fat each individual cow in their herd produces, circular No. 134, of the Illinois Experimental Station at Urbana, will answer the other nine. The table given in the circular is a ready reckoner of cow economics.

The efficient cow is the chief factor in making money on a dairy farm. Good dairying is one of the most remunerative lines of farming and for this reason even poor, unbusinessiike dairying may result in some gain. As a rule, the average or even the best dairymen neither know nor suspect the extent to which the profit or loss from each individual cow affects the profit received from the whole herd. The profit on the good cows covers up the loss from the poor ones and thus

the owner fails to see how easily and to what extent the profits could be increased by simply disposing of a few poor cows. If the largest returns are to be obtained it is necessary to weed out the unprofitable cows from the herd.

TOTAL RECEIPTS NOT NET PROFIT

The reason that so many herds are kept at an actual loss or little profit is because the man with a large herd of poor cows may receive a large cheque at the end of each month, but he does not see the large expense bill that must be subtracted from this. The total receipts must not be looked upon as the net profit.

In an attempt to bring out these facts more clearly and to save the dairyman much figuring, the afore-mentioned table has been worked out. The use and value of this table is illustrated by applying it to the yearly records of the individual cows of five herds taken from the many herds that have been tested by the Experimental Station.

Most striking figures of profit and loss are shown in the application of this table to the herds mentioned. They prove the: many men are twice each day milking cows that are not paying for the feed they eat. Yet the laborious task is continued, year after year, in the vain attempt to make money with a class of cows utterly unable to return a profit. The following are two examples.

A LOSING PROPOSITION

Herd No. 4. This herd of 15 cows proved phenomenal in the proportion of cows on the losing side of the account and also in the excessive loss on many of them. Either one of the two poorest cows lost the owner almost as much money as was made by all the cows on the credit side of the account. When the profit and loss from this herd was totalled up, it showed a total loss of \$112, which means that this man received \$112 less for the products from his dairy herd than he would have received had he simply sold the feed. The profit from his best cow was only \$10.21. This table depicts a most deplorable state of affairsa man trying to support a family with a herd of cows utterly unable to return a profit. Poor as this herd is, losing \$112 annually, the owner, by disposing of the poorest two-thirds of his herd, without buying a single cow, might have prevented his loss of \$141, and have changed himself from a cow keeper to a dairyman.

Herd No. 5 was one of high average production. Although a grade herd, its lowest cow returned a profit of over \$22, which is more than twice that of the best cow in herd No.4. The difference between the individuals of this herd is large, the Lest cow returning a profit of \$69.70.

A DIFFERENCE OF \$100 PER COW

In conclusion, the bulletin says of these two herds, "The cows in herd No. 4 lacked \$7.48 each of paying for their feed and care, while each cow in herd No. 5 made a profit of \$42.77, making a difference in income of over \$50 a cow between the two herds. The best cow in the good herd brought in \$69.70 profit, while the poorest cow in the poor herd was kept at a loss of \$27.52, making a difference in the earning power of the cows of nearly \$100, annually."

The work of our cow testing associations as carried on by the Dominion Department of Agriculture indicates that differences just as striking are to be found among Canadian herds. It is awful to think of wasting years of weary, unprofitable toil on our dairy farms in doing all the labor of preparing the ground, planting, cultivating, harvesting and storing the crop only to dispose of the feed to the dairy herd in which many of the individual cows are kept at an actual loss. All of this waste of labor and energy might easily be obviated if intelligence and common sense were used in establishing and breeding up an efficient dairy herd.

Many of us continue to lose sight of our straw as a stock food. Cattle will eat more or less straw if given plenty of time to look it through. For this reason straw is best fed at night, or it may Le cut and mixed with roots or grain. Too much of our straw is going to waste. It can be economically fed to good advantage and be a saving on the feed bill .- N. J. Kuneman, Manitoba Agricultural College, Winnipeg.

Unless exceptionally high prices are paid for it, milk is fully as economical a source of nutrients as other animal foods, but dearer than most staple vegetable products. Milk, however, requires no preparation, has no waste, and is more thoroughly digested than most vegetable foods. As a source of protein, the most expensive of the nutritive ingredients, it is especially economical. Skim milk, which is whole milk minus part of its fat, and which costs only half as much as whole milk, furnishes protein about four times as cheaply as Leef. Foods prepared with either skim or whole milk are much more nutritious than those prepared with water.

Though some breeders do not make a practice of letting their cows out of doors for exercise during winter, I cannot agree with them in this treatment. A moderate amount of exercise in open air is as beneficial for beast as for man. It tends to act as a tonic to the general health and makes the cows more contented than when they are shut up. However, I certainly would not allow them to remain standing out in the cold to become chilled on a stormy winter's day, but would turn them in as soon as they had ceased taking exercise. This exercise should be given at least twice a week and I can say that we have found this method of treatment very satisfactory and beneficial .-- G. H. Blair, Carleton Co., Ont.



A Luxuriant Growth of Pine and Oak on the Sand Areas, Durham Co., Ont.

A Lexeriast Growth of Piae and Oak on the Sand Areas, Durham Co., Unt. Second growth oak and pine and other valuable timber that flourishes everywhere on the waste lands of Durham County. Ont. leave little doubt as to the adaptability of these solis for forces trees. It is poor economy to cut these trees. Their value standing is may greater than their value as would it is a treat would practically refores themselves. It is poor economy to cut these trees. Their value standing is may greater than their value as would. It is a "erritable erime for anyone to lay this valuable growth in waste. The only hope of protecting it is to place these land under multiply management. —Photos by the Editor of Farm and Dairy.





It pays to be careful in buying oofing, for most prepared roofroofing, for most prepared ro ings look all about alike befo they are laid—pretty hard to tell the good from the poor. Many roofings are simply experiments —been on the pool. on the market so short a time that you can only guess how long they'll last. Better let some one else "try these" new and "improved" kinds, and you pay your money for a kind that has actually proved that it is long lasting-economical.

You can have no better guide than the reputation of the mak-ers and the record of the roofing

DAROID ROOFING

was one of the first prepared roofings put on the market and from the start it has been the best. In all parts of the world we can point to thousands of rooid roofs that to-day are as good parts, and the parts of service. Judge pAROID by its record.

Progressive experience of over 93 years in this one line of business has iaught us how to make roofing. We have learned how to make better roofing feit than any other manua-litere-but that is only one secret of PAROID durability.

TANGUD durability. The fet in a roofing is like the foun-dation of a house—it's of greatest in-turers buy their fett willing manufac-tures buy their fett willing manufac-tion start to finish ourselves. We found start to finish ourselves. We found start to finish ourselves. We pAROID because the cupies for laying pAROID because the cupie for laying and being starts than a round cap.

Yet we do not ask you to buy PAR-OID Roofing solely on its unequalled reputation. Try it at our risk.

OUR GUARANTEE is that we will replace every square foot of roof-ing that proves to be of defective man-ulacture. If a stronger guarantee than this could be made we would make it. llers everywhere sell PAROID Roofing

FREE BOOKS

For the Man About to Build "Practical Farm Buildings" will low you how to save roof money id worry. will

"Comfortable Homes" will show you how our NEPONSET WATER-PROOF BUILDING PAPER will save one-third of your coal bill each

If it's a cottage or bungalow our Proslate Roofing Booklet" tells how o get a more attractive roof than singles at about one-half the cost. Write to-day and tell us the kind of uilding and we will send you the ight book and samples.

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DRAINAGE PEEP SIGHTS As designed by Prof. W. H. Day. H. OCCOMORE & CO. QUELPH. ONT.

FARM AND DAIRY

To Our Tillers of the Soil J. E. Klotz, M.D., Lanark Co., Ont. Farmer man, come to the front! Without you the rest of the working world could not exist for a week. We world could not exist for a week. We all need you and your work, but we too seldom hear your woice in the vi-tal problems of the land. On your properity and work depends the stock value of all things. Your opposition in the market consists largely of mann-facturers, two-chirds of whose products facturers, two-chirds of whose products you could dispense with and still pros-per. Your absolute needs from the outside world are few, and consist of tea, sugar, salt, spices and machinery. You have sheep and can make home-spun, which will outwear ten-fold the imported shoddy sold you by the village merchant.

lage merchant. You may not become Crossus rich but you and your family are most self sustaining and know mothing of the want and the "wolf at are and our; so common to the labore and dur; man of the large metropolis, Wou have staunch friends in your neigh-hors, all of whom will give you a help-ing hand at your harrest, wood-sar-ing or when in distress of any kind. The city man may have many social The city man may have many social friends but when he puts out the dangthe plague by all, he is avoided like the plague by all, unless he be a man of the high places in civic or business

Persuade your sons and daughters to stick to the soil. Canada has lots of it for those willing to turn it and a good knowledge of agriculture and stock is worth more and brings a great er return than an expensive course in commercial manufacture, law, medi-

commercial manufacture, law, medi-cine or divinity, and moreover, it is more cortain of a living and a fair remuneration of these. Our great North West is teening with excellent oung men, pioneering and homesteading. They need your lusty county-bred daughters as help-mates. Let the girls go to discover their affinities in this land of great-est promise. Our British ancestors est promise. Our British ancestors struggled for supremacy in this once vast buffalo and fur-bearing paradise vast buffalo and fur-bearing part and and won. It is now your sons' and daughters privilege and duty to con-trol this almost boundless heritage and save it from the mongrel, super-

and save it from the mongrel, super-sitious and ignorant yokels of dis-contented Europe. British Columbia offers many ideal localities for mixed farming and has a climate throughout its southern half, which has some the same the much less severe, taken as a than that of Ontario. The on whole The only difficulty lies in getting a suitable location as the mountain ranges and want of transportion facilities make explora-tion for homesteads tedious and more expensive.

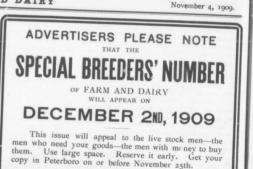
********************** **** CITY MILK SUPPLY DEPARTMENT

Milk is Nine Cents in Toronto

If the members of the Toronto Re-tail Mike-dealers' Association can have their way, the public will gay mine cents a quart for loose mike. This means an advance in price of one cent from the prices paid for mike during the summer.

The decision of the association was The decision of the association was an unanimous one, and was made at a largely-attended meeting on Friday last. The new prices went into effect on Sunday morning. The price of table cream will also be advanced to 50 cents a quart, and whipping cream to 60 cents

to 60 cents. There is a strong probability that a rate war will be instituted by the Farmers' Dairy Co., who favor a flat rate of sight cents a quart all the year round. The company is run by the milk producers on co-onergive. the milk producers on co-operative lines. Its directors were not invited to the milk retailers' conference.



"It is a delicate proposition for us," said Mr. Percy Farmer, the Gen-eral Manager, in discussing the situ-ation. "We do not want to cut the rate so close that the retailers will be unable to make a fair profit and joy for milk of good quality. On the other hand, we do not want to see milk go so bigh that the producers will be unable to market all their milk. We are inclined to favor eight milk. We are inclined to favor eight close that the retailers will cents because it is easily divisible and offers a fair profit. When people have to pay five cents for a pint they often economize and do without. It is a delicate situation and our directors will meet shortly to decide wheth-er to sell at eight cents or not."

How to Build a Telephone Line

(Continued from last issue.) Run the drop wires down to the Auth the drop wires down to the house as nearly as possible to the place where the office wire is to en-ter. For attaching to the building either side blocks or porcelain knobs will be satisfactory. The latter will a built, for they are not so unjoid. be better, for they are not so unsight-ly as the side blocks. Fasten the drop wire high up on the side of the house where you wish to enter. If the tel-ephone is to be mounted on an outside wall, the inside wiring can pass directly through the wall from the telephone and attach to the drop wire just outside. Be sure and solder this connection between the office wire and drop wire. Where the office wire passes through the outside wall a hole passes through the outside wall a noise should be drilled large enough to take a ½ inch porcelain tube. This hole should slant upward from the outside inward, so that water cannot flow into the tube. Inside the huise as nearly as pos-

Inside the house as nearly as pos-sible to the point of entrance should be placed an efficient form of light-ning arrestor. During times of elec-trical storms the switches of the arrestor can be opened and the telephones will be entirely disconnected promes will be entirely disconnected from the line, at the same time the arrestor portion will still be in con-nection with the line and will dis-charge any accumulation of elec-

For interior wiring the best kind is known as the No. 19, rubber covered and braided, either single or twisted in pairs, depending upon whether the line is grounded or metallic. are three binding posts at the top of each telephone. The two outside posts There are three binding posts at the posts each telephone. The two outside posts are for the line wires and the top or middle one is for the ground wire. When the telephone is to be connect-ed to a grounded circuit, the line wire should be connected to either one of the line building nosts, and the rethe line building posts, and the re maining two posts are connected gether and to the ground wire. The

The receiver cord is passed through the hole in the inside of the cabinet and fastened to the two binding posts just inside.

Just inside. In connecting the latteries, be care-ful and do not have one of them op-posed to the other. Each dry cell has two binding posts-the one connected with the carbon element in the centre and the other connecting with the zinc and the other connecting with the zinc cup at the edge. A wire should con-nect the carbon of one cell with the zinc of the other. The remaining binding posts are connected with the two wires that are terminated in the battery compartment. Be sure and have all connections tight.

A most important part of installing the telephone is the running of ground wire and the making of the ground connection. Every rural telephone should have a ground connec-tion, regardless of whether it is a grounded or a metallic circuit. Run grounded or a metallic circuit. Run the ground wire just as directly to the earth as possible with the least number of curves or angles. The best kind of ground is a water pipe or connection with a well. If connected with a water pipe, drain out the wa-ter before an attempt is made to sol-der the connection, for the water would prevent heating the pipe sufficiently to do the work.

If the ground connection is to be In the ground connection is to be made in a dug well, solder the wirc to a galvanized iron plate about a foct or more square, and sink it to the bottom. The same method may be Lottom. The same method may te-used in making a ground connection in the bottom of a stream. A very good ground connection may be made to the metal casing of a drilled or driven well. This casing runs the full depth, and therefore has a large sur-face exposed to moist earth and wa-

If there is no stream, well, or water There is no scream, wen, or watch pipe, a ground rod may be used. These ground rods are usually of gal-vanized iron about six feet in length. The iron is driven its full length into the earth, and the ground wire is then soldered to it. The ground rod should be driven deeply enough so that the lower end will always be in moist the lower end will always be in moist earth and below the frost line. Ice, frozen and dry earth are good insul-ators, and therefore unfit for ground connections. Always be most partic-ular in soldering the ground connec-tions as well as all injustics in all wires tions as well as all joints in all wires that are in the telephone circuits. It will save time, expense and poor ser-

club of seven new subscriptions A club of seven new subscription will win you a pure bred pig. Write Circulation Dept., Farm and Dairy, Peterboro, Ont.

getter and to the ground wire. The only connections that will have to be made in the telephone will be the at-taching of the receiver and batteries. We have taken Farm and Dairy tor a number of years and would not like to be without it.-I. M. Fife, Peter-tor Co., Ont.

November

Réééééééé The Fe The Feeder our subscribes vited to ask o interest. All prompt atten

The Feeders our subscriber vited to ask of interest. All prompt attent Fee

farme nd I wish you have 45 acres ent time looks of ears per act timothy and clu from 1400 bus. o would you advis silos of 16 x 30 silos of 16 x 30 from nuy corn, and use it for g winter.? Would of this straw an silage, or would \$10 per ton and cattle do you ti sit? The cattle w jouting on this f ist? The cattle w you think would had a fair amo steers before but W, Kent Co., Om Two silos 16

Two silos 16 120 tons each c age. This with age. This with wheat straw and hay would quit to 70 steers from supposing the s 1000 lbs. weigh this number you 35 tons of corn timate of the p is correct you y

tons of corn (gr. If you wished practically all t your farm with wheat then you dispose of would Hay 50 tons,

Hay 50 tons, wheat straw prostover probably (grain) about 8, of feed would fi in the time allow lst and still lea orn (grain) uni ed of course you all the corn (gr probably keep period and feed advantage; but er cost per steer ration for the months to clean would suggest : Corn silage Corn stover Wheat chaff

Hay Corn meal, per st The real feeding what as follows: Dec. 1st to Jar

Corn silage Corn stover Wheat chaff Hay Corn meal

February 1st to Corn silage Corn stover Wheat chaff Hay Corn meal and from March

ng period-Silage Stover Hay Corn meal All changes show

ally. This is more case where meal is should be started meal ration, say 1 gradually worked u only near the en-period. I would su part of your corn mix with the corn first should be abo half corn meal.

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*********************** The Feeders' Corner The Feeders' Corner is for the use of our subscribers. Any interested are in-vited to ask questions, or send items of interest. All questions will receive prompt attentios.

Feeding Steers

Feeding Steers That an Armer living in Kent Co. Ont, that a different of the following: that different different here the following: that different different here the following: that different different here the following: the different different here the following: the different different here the following: the different different here the following the different different here the following the different different here the following the different different here the different here the different different here the solution of the different different different different different different the different different different different different different the different different different different different different different different the different different different different different

Two siles 16 x 30 would hold about 120 tons each or 240 tons of corn sil-age. This with an ample supply or wheat straw and 50 tons of mixed hay would quite easily feed from 60 to 70 steers from Dec. 1st to May 1st, supposing the steers to average about this weight Dec. 1st. To feed this number you would require about 135 tons of corn (grain). If your es-timate of the probable yoild per acre is correct you would neve about fifty loss of orn (grain) left over. Two silos 16 x 30 would hold about

would suggest : Wheat chaff 5 lbs.

пау	1 11.
Corn meal, per steer, per diem.) 10s
The real feeding should be s	108
what as follows :	ome
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Dec. 1st to Jan. 30th about th	us-
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Corn stover	lbs
Wheat chaff 8	Ibs.
nay	Ibe
Corn meal	lba
February 1st to March 15th-	-00.
Corn silage	Ibe
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Wheat chaff	168.
Hay	IDS.
Corn most	Ibs.
Corn meal	Ibs.
and from March 15th to end of f	eed
ing period-	
Silage 25	lbs.
Stover	lbs
wheat chaff	1he
nay	Ibe
Corn meal	lba

resultant mixture with the ensilage just before reeding. If hay supply ran short it would of course be advisable to buy enough to see the steers through, built 1 think 50 toms would be plenty for 100 steers. Cattle should gain from 250 to 380 lbs. each, more if you have a first-class feeder, and they are not too fat coming in.—J. H. Grisdale.

Our Veterinary Adviser

UNTHIRIFY GOW-T have a valuable full for loss alling and would be thank in for loss alling and would be thank in for loss and the standing and were required the standing and were would be allowed to be the standing and were and her milk which would go away would come back somewhat, but her milk which has been field as had her breath the stand would be away and her milk which would go away and her milk which would go away would come back somewhat, but her milk when has been field as had her breath the has been field as had her breath the has been field as had her breath the has been field as had her breath that would hurt bow. Do you think you the has tuberculotis, or would it he to the has tuberculotis, or would it he a. Argenciouf 26 to frigh er round?-E. I do not think the "com ease" res

E. Argenteuil Co., Gae. I do not think the "cow ease" responsible for the cow's condition. The cough indicates thereundois, but is not possible to diagnose with the therealth test by a veterinarian. Try the following transment. Take equal parts by weight of sulphate of iron, gentian, gringer and nux vomics. mix and by weight of sulphate of iron, gen-tian, ginger and nux vomica, mix and give a heaped tallesponful three times daily. If her appetite and general-condition does not improve in a few weeks it will be wise to destroy her.

A Home Made Litter Carrier

Robt. Bailey, Peterboro Co., Ont. Robt. Bailey, Peterboro Co., Ont. Two years ago, I came to the con-clusion of the wheel-barrow was too slow an abulant with which to clean out cover Maving put in a sys-tem of water. Having put in a sys-tem of water. Having put in a sys-tem of water. Having put in a sys-tem of water water in the work at a litter carrier as well. I and installed is at a cost of \$50. Several who have seen it claim it to be one of the best litter carriers that they ever saw. For the track, I made use of flat at they by 1-4 inches. A blacksmith at they are year way. We use 75 feet of track in they ard. We use 75 feet of track is fastened on the series they track is fastened on the series they track is fastened on the series they are so they be

iron and shaped it. We use 75 rest of track in the yard. We use but one post. The scanting to which the track is fastened on runs expanse of 75 feet is built up of four 1 by 5 inch boards anialet together making it wand the bara and to the post by mass which are provid-ed with long thras which are bars in to by which we wand by means of muts by which we wand by means of the post and from the bars plate to this scantling and hold it in position. The track is attached to this scantling. One shows will send the ear from one end of the track to the other. The track as erected in the other. The track as rected in the other is her outful like it. It was and a half days to erect it. We will and bar the cost of the labor in it mic count the cost of the labor in the fall of year when time was not worth much. Renew Your Subscription New.

Renew Your Subscription Now.

FARM AND DAIRY

You Ought To Know About **Steel Ribbed Fire-Pots**

Any invention that will save you from 1/8 to 1/3 in fuel, is a pretty important subject to the man who is going to put in a new furnace this summer.



The "Hecla" Fire-

pot has three times the radiating surface of any other because it has 97 steel ribs fused into the castiron (count the flanges or pins in your present This increase in radiating means a furnace). corresponding increase in the amount of heat given off by the fuel. By actual tests extending over three years,

"Hecla" Furnace The

saves from 1/8 to 1/3 of the fuel.

Every one of the "Hecla" Furnace steel ribs radiates heat. They also throw off the heat so rapidly that the Firepot never becomes redhot, cannot burn out, and should be practically everlasting.

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Free to Syrup Makers

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THE GRIMM MFG. CO. 58 Wellington St., MONTREAL WINDMILLS BETTER AND LARGER THAN EVER THE ONTARIO PROVINCIAL **Towers** Girted every five feet apart and double braced GUELPH ONT. Grain Grinders DECEMBER 6 TO 10, 1909 Pumps OVER \$13,000.00 IN PRIZES Tanks HORSES, CATTLE, SHEEP, SWINE and POULTRY SEEDS, JUDGING COMPETITION: Gas and Gasoline Engines **850,000.00** is being spent in order to give more space for live stock and poultry and to provide accommedation for an exhibit of **HORSES**. Concrete Mixers Write for Catalogues SINGLE FARE ON ALL RAILWAYS For prize list or program of lectures apply to A. P. WESTERVELT, SOC. Parliament Bidgs. - Toronto GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA

8



Vegetable Growers' Program

The program for the convention of the Ontario Vegetable Growers' Association, Toronto, Nov. 11, during the week of the Ontario Horticultural Exhibition will include the following papers and addresses :

"Report of Investigation on Cab-bage and Cauliflower Growing in the United States," A. McMeans, O.A.C., Guelph

"Report on Vegetable Growing at Jordan Experimental Station," H. S. Peart, Jordan

Address, G. H. Clark, Seed Commissioner, Ottawa. Reports of Inspection of Experi-

Reports of Inspection of Experi-mental Plots conducted by O.V.G.A. "The Best Method of Increasing Membership and Furthering Interests of the Association," C. W. Baker,

Byron. Address, Hon. J. S. Duff, Minister Agriculture.

of otato Culture," Prof. Macoun,

"Fotato Culture," Fron. macoum, C.E.F., Ottawa. "Small Fruits in Connection with Vegetable Growing," W. C. McCalla, "Insects that Affect Market Gar-dens," C. W. Nash, Toronto.

The Apple Situation

Rains last month helped the apple Rains last month helped the applies crop considerably but much of the fruit turned out under-sized. The crop is below the average. Prices have been fairly good. From all the provinces reports have been received by Farm and Dairy. The following the turning trans-

are typical ones — Kings Co., N.S.—Quantity nearly function of the sear which was 700,000 prices range from \$2 to \$2

varieties in cultivated orchards have a fair crop. Fall varieties are selling locally at \$1.50 to \$2-D. J. Stewart.

Queens Co., N.B.—Apples are good size and quality, but not up to the average in quality, free from fungi and worms. Prices Letter than last and worms. Frices Letter than inst year. Alexanders bring from \$1.50 to \$2. Winter varieties held at \$3 to \$4. - Geo. MacAlpine. Two Mountains Co., Que.-Wealthy, Two Mountains Co., Que.-Wealthy, Two Mountains Co., Some harrols of crop. prices good. Some harrols of crop. prices good.

crop; prices good. Some barrels of Fameuse and McIntosh sold at \$4 to \$5.-G Reynaud.

Jacques Cartier Co., Que.-Fameuse Jacques Cartier Co., Que.-Franculae are large and of fine appearance; good erop. No. 1 selling for \$3.60 test.50; No. 2, \$2.26 to \$2.75, McIntosh are higher in price.-R. Brodie. Hastings Co., Ont.-Apple crop light. Growers selling for \$1.50 a bbl., the the means include the the selling for \$1.50 a bbl., the means include the the selling for \$1.50 a bbl., the means include the selling for \$1.50 a bbl., the means include the selling for \$1.50 a bbl., the means include the selling for \$1.50 a bbl., the means include the selling for \$1.50 a bbl., the means include the selling for \$1.50 a bbl., the selli

and buyers furnishing the barrels. Other growers sold at \$1.50 to \$2 for Other growers sold at \$1.50 to \$2 for No. 1 and No. 2 packed, the buyer doing the picking, packing and fur-nishing the barrel.-F.S., Wallbridge. Durham Co., Ont.-Apple crop larg-

er than expected, fairly good quantity. Ben Davis is light and poorly devel-oped. Stark, Fallawater and Golden Russet have barreled up well. New-castle Association were offered \$2.75 f.o.b. lut had reserved.

castle Association were offered \$2.75 f.o.b. tut had previously promised their output.—W. H. Gibson. Oxford da worm, Buyers are pay-ing \$1.25 to \$1.50 picked and \$1 to \$1.25. Wentworth Co., Ont.—Crop poor to good. We are picking 300 barrels an acro of fine Spys. They are free from worms and aceb. Winds are bringing down much of the late crop.—Joseph Tweddle.

Brant Co., Ont .- Apple crop is variable, some orchards turning out well, others condemned to the cider mill. Apples generally are clean of fungus.

FARM AND DAIRY

Appress generally are clean of fungus. Prices range from \$1.00 in orchard to \$2.75 a bbl., r.b.-B. J. Palmer, Simcoe Co., Ont.—Apple crop is an abundant one. Fall apples sell for \$1 a bbl., grower to pick; winter varieties \$1.25, seller to gather. Co-operation in handling the product of the op. in handling the product of chard would undoubtedly gi the orchard would undoubtedly give the grower a much better return .--- Wm. the Bacon.

Bacon. For Marken and State and Stat

at \$2.25 to \$2.70 to an area of the second s free from colling worms, but under-sized. Price \$1 on tree, \$1.25 picked.

sized. Price \$1 on tree, \$1,25 picked. -A. E. Sherrington. B.C.-Apple crop rather light; good size and clean. Good percentage should pack Fancy. Two and two and one half cents a pound is being mail for No. 1 winked and de. is being paid for No. 1 picked and de-livered at packing house. Few will be stored.—Pommier.

Dentistry as Applied to Trees

The Division of Zoology of the Penn-sylvania Department of Agriculture received a letter recently asking how to prevent decay in a tree from mak-ing further progress. The writer said : "We have a cherry tree whose trunk has rotted considerably. What can done to save the tree? Is it a go What can be

done to save the tree? Is it a good plan to cut out the dead part and fill up the hole with coment?" Professor Surface, the State Zoolog-ist, replied: "The proper treatment for the cavity of your cherry tree is a clean this put, removing the defor the cavity of your cherry tree is to clean this out, removing the de-cayed wood; then wash or spray the interior with an antiseptic, such as a two per cent, solution of formalin, or very dilute solution of mercury bichloride, which is corrosive sublimate; children which is correstve audimate; then paint it with ordinary paint of any kind, and finally fill the cavity with any kind of cement, or use one part of Portland cemen with about

part of Portland eemen with about four or five parts of sand. "This is pactically nothing else than the principle of modern dentisty ap-plied to the preservation of the tree. The dentist cleans out the cavity of a decaying tooth, applies an antiseptic to prevent further decay, and fills the tooth with some substance that by pre-servation will prevent the nogsibility. servation will prevent the possibility of further decay. We are coming to see that the treatment of all living things is based upon the same funda-mental biological principle."

Renewal of Old Orchards J. C. Chapais, St. Denis, Que.

(Concluded from last week)

All the amputations finished, dressed every wound by cauteriz tion with the hot iron applied on t on the live wood. Then I painted all the cut surfaces with white lead. Some of the branches of those old trees were split but sound still. I brought them to gether by means of bolts ighty fast-ened with nuts, after having used the cracks with Bordeaux surface. live wood. Then I painted all the When the cracks were not completely brought together Ly the bolts, I filled brought together Ly the bolts, I filled them with putty and used the same to fill the holes left in same places by the cradication of cankers. I finished the work by scraping the bark in order to remove all moss, lichens, scaled barks, which harbor the insect eggs and larvae, bark-louge and all immedia Darks, which harbor the insect eggs and larvae, bark-louse and all insects which like to take shelter over or un-der the bark and by washing all the trunks and limbs with a solution of one pound of concentrated lye in five gallons of water. This give into AND GRAFING

This work being done, I lopped off one third of the branches which had grown too high on the old trees during

the course of their prolonged growth the course of their protonged grown and, on those shortened branches, I top-grafted scions of the same vari-eties of fruit that were borne by the original tree or of some other vari-

CULTIVATION

CULTIVATION Having thus brought the old trees in good condition. I applied in the fall of the year, 20 bushels of unleach-ed ashes to the arpent on the ground ed asnes to the arpent on the ground which I had vainly tried to plow and which would have required the use of the buttock and spade, a work too onerous to be undertaken. In lowing spring of the year, I applied 60 single loads of coarse farm-yard that manure with some old straw and coarse hay collected on an uncultivated wet piece of land.

RESULTS OF THE TREATMENT

Most of the top-grafts were a suc-cess and grew well the second year. Under the influence of the good manuring given, the trees got an extra-ordinary renewal of youth and vigor and, at the end of three years, a very large crop of fruit was the reward of the owner, for the pains he had taken to renew his old orchard. But, the marvel is that, 30 years having elap-sed since that work has been done though the young orchard begins to give signs of old age, some of the old trees above mentioned, though very much worn out, still give some fruit.

Fall Spraying for Scale

Fall Spraying for Scale The best thing to do for trees with San Jose scale is to boil 17 pounds of sulphur and 22 pounds of lims in enough water to boil it, using any-thing but a copper vessel. It will not, injure iron. Stir it occasionally, Af-ter it has boiled for fully an hour, strain it, add enough water to make a totab buk of 40 gallons. Water can, be added during the process of strain-ing and will help to wash it through ing and will help to wash it through the strainer. Do not use a cloth strainer for the fibers or little threads may go through and help to clog the nozzle. The best kind of strainer is one with a strainer wire put across the bottom in such a way that it will be higher at one side and lower at the other, or one built like a cone standng upright and pointing upward with he funnel. The best material to use the funnel. the funnel. The best material to use in making this strainer is brass wire cloth, with about 30 meshes to the inch. You can have such a strainer made by any tinsmith at a cost of bout \$1.00.



of this publi when writing to advert

November 4, 1909.



specialty is goats, says Dominion Ammunitic w gets results Deminion Ammunificing gois results with greater regularity than any other taake. More than a bundred thousand other shooters in Canada will agree with him. The new Deminian System of inspection proves every cartridge or shot abell perfect. Dominion Cartridge Co. 14d. Moureal. Co., Ltd., Montreal.

Dominion Ammunition. THE FARMER'S SCHOOL TheCentralBus ness College of Teronto ha THE CREATE **Central Business Coll** of farmers' sons for ituiness Life an for the Business End of Farming. has a Special Course for those wh wish to continue Farming. ' atalogu Free. Write for it. Address: W. H. SHAW, Principal

394 Yonge St., Toronte

the leaves drop. There is no use to spray for scale while the leaves are on. Do this when the wind is Llow-ing slightly in one direction, and when it blows in another direction spray them again. Be sure that you touch every speck of the Lark from tip of the must remain branches to the have the most remote branches to the base the most remote branches to the base of the trunk. Cost them so there is not a spot missed. If you do this faithfully and thoroughly, you will be surprised at the beneficial results that will appear next summer, and which will new you make time over which will pay you many times over for your efforts. In addition to the spraying, cut or prune back the trees and by any tinsmith at a cost of sour \$1.00. Spray your trees thoroughly after the dead but also the dying wood.

proportion of beer ound grain. It is thought by pullets should be a rich, stimulatin egg production—tl small eggs and u thus greatly redu that, in this case, time before they we stunted, and thei tinue smaller than variety.

This experiment with the hope of either for or aga and of finding a which could be red hatched pullets.

The experiment ngle comb White and conducted for the time being di iods of 28 days ea July 28, 1906, ar 190

The four pens w and 4, respectiv tained 20 pullets I making them five

Some of the p (though most were all seemed to be h so selected that the as possible were eq or and maturity, a ings were practical were put in the pe 1906

The pens were al were separated fr wire partitions. I space of 86 square feet per hen. The

November 4,

-----POULT

................. Feeding

F. C. Elford, M Que How best to fee as to have the fi throughout the w prices are highest interests the wide or at this time of experiments hav along this line w One thing seems t winter eggs are must be matured. pullet should be r strain that can p winter time. The much as the condi farm, but pullets

ed in any part Farm pullets have develop of any. If they are hat May, and fed lib-tion if the pullet lay before Christi ing and breeding nell station one e tried to find out t the growing pulle been printed fro the following:

OBJECT OF I The object of t described was to f early hatched pul cure best results i duction and profit lets are generally most profitable w commonly suposed ed extra early are

to the purpose. It has been thou iest pullets shoul treatment designed ing tendency dur mer, with the hop egg yields in the treatment is call pullets just approx allowed a grass ru ration of whole g

*********************** POULTRY YARD **Feeding Pullets**

F. C. Elford, Macdonald College, Quebec How best to feed growing pullets so

How best to feed growing pullets so as to have the finest egg production throughout the winter months, when prices are highest, is a problem that or at this tim of wake pollty rais-experiments have been. Frequend along this line with varying results. One thing seems to be certain, that if winter eggs are wanted the pullets must be matured. A properly grown pullet should be ready to lay by Dec. 1. This presupposes they come of a strain that can produce eggs in the winter sime. The feed can vary as much as the conditions on the average farm, but pullets should not be stunt-ed in any part of their growth. Farm pullets have the best chance to develop of any.

Farm pullets have the best chance to develop of any. If they are hatched early, April ar May, and fed liberally, it is a ques-tion if the pullet that is not ready to lay bofore Christmas is worth keep-ing and breeding from. At the Cor-nell station one experiment has been printed from the best way to feed the growind out the best way to feed the growing or experiments.

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the following: ONEGT OF EXPERIMENT The object of the experiment here described was to find out how to feed early hatched pullets in order to se-cure best results in development, pro-duction and profit. While early pul-lets are generally recognized as the most profitable winter layers, it is commonly supposed that pullets hatch-ed extra early are not so well adapted to the nurpose.

ed extra early are not so well adapted to the purpose. It has been thought that these earl-iest pullets should receive special treatment designed to check the lay-ing tendency during the late sum-mer, with the hops of getting larger egg yields in the early winter. This treatment is called retarding. The pullets just approaching maturity are allowed a grass run, and a satisfying allowed a grass run, and a satisfying ration of whole grain with a limited proportion of beef scrap, but no

proportion or over scrap, but no ground grain. It is thought by many that if these pullets should be forced—i. e., fed a rich, stimulating mash to induce egg production—they will lay a few small eggs and moult prematurely, small eggs and moult prematurely, thus greatly reducing their vitality, that, in this case, it would be a long time before they would be prematurely stunted, and their eggs would con-tinue smaller than is natural to their variety.

This experiment was undertaken with the hope of obtaining results, either for or against these theories, and of finding a method of feeding which could be recommended for ear-ly hatched pullets.

19 hatched pullets. The experiment was begun with 80 single comb White Leghorn pullets and conducted for a term of 864 days, the time being divided into 13 per-iods of 28 days each. It was started July 28, 1906, and closed July 27, 1007. 190

The four pens were numbered 1, 2,

The four pens were numbered 1, 2, 3 and 4, respectively, and each con-tained 20 pullets hatched on Feb. 27 making them five months old. Some of the pullets were laying (though most were less mature) and all seemed to be healthy. They were so selected that the flocks as nearly as possible were equal in weight, vig-or and maturity, and their surround-ings were practically alike. No males were put in the pens till December 1, 1006.

1006. The pens were all in one house, and were separated from each other by wire partitions. Each had a floor space of 85 square feet, or 4.3 square feet per hen. The house had 13.2

square feet glass surface, and 10 sq. feet of cloth surface. The entire air space was about 3,350 cubic icet, or 29.3 cubic feet per hen. Except on extremely cold days, the cloth vind-ows were removed in the morning, the manines heng covered only by wice openings being covered only by wire netting.

There being only two yards avail-There being only two yards avail-able for the four pens, the hens were alternately allowed a grass run un-til Nov. 20, 1906. From that time until March 20, \ldots 07, they were con-fined in the pens, but from the latter date they were alternated as before until the close of the experiment. The willes wave suched, at the

The pullets were weighed at the beginning of each period of 28 days, and also at the end of the experi-ment. From Aug. 1, 1906, to March 1, 1907, and from July 1, to July 27, 1907, they were inspected individual ly each week as to their condition of moult. Between March 1 and July 1 they were examined only once each period of 28 days, at the time of weighing. To make sure that the moult weat or rectly observed, the coul-The pullets were weighed at the noult was correctly observed, the pul-lets were dipped in Diamond Dyes at the beginning of the moulting ob-servations, thus making any new servations, thus making any new white feather distinctly visible. The hens were trap nested during

for their feed. Do not allow them ac-

for their feed. Do not allow them ac-cess to water where they can awim, as they will not quin as readily them. If they are feed all that they will est they will seldom go far from their feeding place. Ducks can be feed more corn and heavier feeds than can be feed to chickens or turkeys. The feed to chickens or turkeys. The feed they have the selection of the upon the feed on hot a large oxient upon the feed on hot a large oxient upon the feed on hot a large oxient upon the feed on hot as a selection and barley are the grains that are mostly fed; shorts is also good. Ducks should be killed by the use of the knife. Hold the mouth open

of the knife. Hold the mouth open till the duck is bled as the blood will clot if the mouth is closed and death is slow. Scalding is the easiest methclot if the mouth is closed and deaun is slow. Scalding is the easiest meth-od for the inexperienced in dry pluck-ing, as dry plucking is difficult for any one but an expert. These birds may be much improved by proper dressing and packing.

for ten poor ones.

A simple and ordinary, yet a Satisfactory Feed Trough The illustration shows a cheap style of brooder house on Mr. L. H. Baldwin's place, in York Co., Ont. Mr. Baldwin advocates and practices feeding chickens, when outside, on flat boards. The rain washes the boards clean, and the sun dis-infects them, thus they are sanitary. The curl or warp caused by the sun and rain is an advantage in giving a greater capacity to the boards.

matic parents.

The New York Horse Show, which will be held shortly, will, for the first time in its history have a fine exhibit of Canadian Clydesdale horses. Graham Brothers of Claremont, Ontario, are taking in addition to their Hackare taking in addition to their Hack-neys, about 12 of their best Clydes-dales. Their two-year-old stallion of exceptionally fine quality and weigh-ing 1,900 pounds, is expected to take a leading place in the show. Hodg-kins and Tisdale of Beaverton, On-tario are also taking six excellent

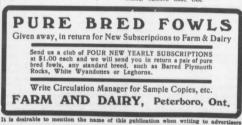
kins and Tiscale of Beaverton, Un-tario are also taking six excellent Clydesdales to the New York show. The prizes offered for each class are : first, \$150; second, \$75; and third, \$50

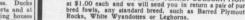
POULTRY FOR SALE Advertissense under this heading, two cents a word, payable in advance. R. C. R. I. REDS, Partridge Wyandottes Area a word, payable in advance. Which class stock: for sais chap our Which class inclust for sais chap our Which class pays. Robert Smith, Colinville, Ont. FOR SALE-Cool Rose Comb Brown Leg-horn Cockerels, 8100 each if soid soon. Also Round nucles, 8200 each.-J. H. Ruth-erford. Caledon East, Ont.

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FEET Iron Pipe

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the entire time, and individual re-cords kept. The eggs were weighed for six consecutive periods, and after that for a week at a time at inter-vals of two months, until the close of the experiment. Eggs from each pen were incubated, and records kept of the results. The conclusions drawn from the data of this experiment will be given next week.

Fattening Ducks for Market

Robert Smith, Lambton Co., Ont. To fatten turkeys is often regarded as troublesome, but the average farmer worries more over the fattening of his ducks. He worries when the turhis ducks. He worries when the tur-key turns away from the food with a sickly look, but Mr. Duck eagerly shovels down the food as ducks only can, and loudly proclaims his ability to get away with more much to the annovance of the farmer. But, "cheer annoyance of the farmer. But, "chee: up," friend, you do not actually waste your feed, for ducks gain with as sur-prising rapidity as they est. Ducas, to be profitably handled, must be sold at from 10 to 12 weeks. They should be hurried along as they grow very rapidly till that age. When older, they eat more and gain less. Ducks sell readily at summer resorts and at frat-class hotels and boarding houses during the summer and fall. Chinese laundries are also good markets, as a rule.

The ducks should always be fed all they will eat for two weeks before they are marketed as they pay well



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FARM AND DAIRY

FARM AND DAIRY of such roads at \$1,000 a mile. It simplified the matter of telling what AND RURAL HOME

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all the

FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of barrymen's Associations, and of adian Holstein, Ayrshire, and Jer-tle Breeders Associations.

ery Cattle Breester Associations. SUBSCHPTON PHICE. Strictly in advance. Give Solar and Statistical and Great Britain, add 60e for posinge. Novers subscription free for a club of Network Statistic Solar and Statistical and Great Britain, add 60e for posinge. Network Statistical Statistics and Statistical Statistics and Statistics letter. Postage stamps, or Registered Letter. Postage stamps, or and observe add 30 cents for exchange fee required at the banks.

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old and new addresses must be given. 5. ADVERTSING ARTES pleation. Copy received up to the Friday preceding the following webs the Sriday 6. WE INVITE FARMERS to state us on any agricultural topic. We arise us on any agricultural topic. We are state us on pleased to receive practical articles.

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CHECULATION STATEMENT The paid subscriptions to Farm and Dairy exceed 7,486. The actual eircuition of each issue, including copies of the paid sent subscribers who are but slightly in sent subscribers who are but slightly in sent subscribers. No subscriptions are accepted at less its. No subscriptions are accepted at less its. No subscriptions of con-tains any dead circulation.

Sworn detailed statements of the circu-lation of the paper, showing its distribu-tion by countries and provinces, will be mailed free on request.

OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY We want the readers of Farm and Dairy to feel that theorem deal with our advertisors with our secure deal with our vertuers' reliability. We trade to the vertuers' reliability. We the reliability vertuers, should any subcriber hav vertuers, should any subcriber hav vertuers, bloud days subcriber hav vertuers, bloud dissainfed with the trad-tions to be dissainfed with the trad-tions, we will investigate the directu instruction of the constant of the trans-lister, we were set from any of our adver-tiser, we were sets from any of our adver-tiser, we were sets from any of our adver-tiser, we were set of the slightest degree, we will do the advertised degree, we then through the columns of the paper degree to the state of the slightest degree to the advertised of this Protective Folder in the benefits of this Protective Folder is the advertiser the word of the specific degree for advertiser and Dairy. Compliants for advertiser for advertise desails det in the Advert of Advertiser for advertised desails det in the Advert of Advertiser for advertised the advertised of the Advertiser for advertised of the desails det in the Advert of Advertiser for advertised desails det in the Advert of Advertiser for advertiser the Advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for advertiser for advertiser for advertiser desails det advertiser for adv

FARM AND DAIRY PETERBORO, ONT.

DO WE WANT A NAVY?

Farm and Dairy looks with considerable misgiving upon the proposed expenditure by Canada of \$20,000,000, during the next few years, in the establishment of a Canadian navy. If voted, this \$20,000,000 would be only the initial expenditure. It would be but the thin edge of the wedge. What the final burden on this country of such a navy would amount to, no one can tell.

It is a question if we are not almilitary purposes. The Dominion than \$50. In the case of Mr. B. Government devotes approximately Rothwell's herd, mention of which \$1,000,000 a year for the encouragement of agriculture and over \$6,000,be any question as to which line of ex-

Few of us can realize what \$20,-000,000 means. It would, for instance, cheap at that. provide for the construction in our rural districts of 20,000 miles of good in a recent circular entitled "Cow

FARM AND DAIRY

wards the construction of another based on the experience and findings Canadian transcontinental railway.

could only play tag with themselves up and down our shores.

What also would be the general ef- MAKE WASTE LANDS PRODUCTIVE tect of such an expenditure upon other countries? Japan and China will see it and in all probability will conclude that they also must increase their expenditures for the same purpose. The effect on Germany, the United States and other countries would be the same. As soon as they increased their expenditures, we would be told that it had become necessary for us to still further enlarge our navy. Thus the merry, but expensive, game of building navies would continue.

Supposing \$20,000,000 was to be voted by Canada for the encouragement of peace, the greatest step the world has ever known for the establishment of international peace would thereby be taken.

It may be that we need a navy to protect our trade routes. We doubt it. In any event, we feel that this question deserves more thorough consideration than it has yet received. The Government would be well justified in leaving this matter to the vote of the people. Farmers who agree with this view, and on whom the burden of such a navy would mainly fall, will do well to write to their members of parliament and to Sir Wilfrid Laurier direct, protesting against the ex-

penditure of this enormous sum until the question has been submitted to the country for its approval.

WHAT IS YOUR BEST COW WORTH?

How much would it take to buy your best cow? Would it be \$50, or more? Or have you any basis of telling just what she is worth? A strong argument in favor of individual testing of dairy cows is that it forms a ready basis on which to compute their value.

A cow is a poor one that is not worth at least \$50, though ordinarily that is a fair average price. High prices are the exception rather than the rule chiefly through lack of knowledge as to what each cow produces. Where records are available (and they are rapidly becoming more common) it is a poor herd in which ready expending excessive sums for the best cow would not realize more was made in Farm and Dairy, October 21,, a cow is not considered a 000 for militia and defence. Can there good one unless she gives 8,000 pounds of milk, testing not less than penditure is productive of the most 3.8 per cent., a year, in her fouryear-old form. Such a cow Mr. Rothwell considers worth \$100, and she is

The Illinois Experimental Station macadam roads, estimating the cost Index of Keep and Profit," have

would provide a substantial start to- a cow is worth, by means of a table of the Department of Dairy Hus-What are we going to do with a bandry during the past 13 years. The navy after we get it? War vessels table makes it possible for anyone, cannot be used for the transportation knowing the number of pounds of of produce. They may be fine to milk produced yearly, to tell at a look at, and brag about, but they do glance just where he stands as to not produce wealth. They would be profit and loss in connection with immensely expensive to maintain, and each cow. An extract from this bulthe greater part of the time they letin is given elsewhere in this issue.

One of the important questions of the day, so far as the Province of Ontario is concerned, is the reforesting of her waste areas. Farm and Dairy readers will remember, from the information brought out during the discussion of this question through these columns last spring, that there is in the Province at least 125,000 acres of non-agricultural land, most of which is drifting sand.

Of these lands, Lambton County is said to have 40,000 acres, Simcoe, 60,-006; South Norfolk, 10,000, Northumberland, 8,000 and Durham County These lands, for the most 6.000 part, at one time were covered with valuable timber. Since the timber was removed, and after a few years of exploitation for agricultural purposes, these soils have proved unsuited to such an extent for the growing of farm crops, that they have been utterly abandoned. A bright side of the situation is that these lands will grow forest trees. How to have these areas set apart, replanted and devoted wholly to the growing of

trees, is the question of the moment. Realizing the soundness of the principle of reforesting and being informed as to the conditions prevailing on these waste lands, Farm and Dairy on March 18th outlined a forestry policy whereby the counties interested could take over their waste lands and manage them under Government assistance and direction. At the same time, it was suggested to the wardens of the various counties in which these lands were located, that they call mass meetings of their ratepayers and others to consider this matter. Warden Powers of the united counties of Northumberland and Durham, acted upon this suggestion, which resulted in a convention being held in Cobourg last June. Resolutions passed by the convention affirmed our contention that there is a large area of waste land there dangerous to surrounding lands, and that these should be taken over and reforested; and that effected be made by the councils of ties to se-

cure the co-operation of the Provincial Government in working out a policy of reforestation. A committee was appointed to arrange for a series of meetings next autumn to inform the ratepayers on this subject, the series to conclude with a monster convention at the December meeting of the council of the counties when definite action is to be taken. In connection with this some definite announcement will be made shortly.

this matter of reforestation, the address of Dean Fernow of Toronto University, delivered at the June convention and reproduced elsewhere, is worthy of careful perusal. It deals with many facts and figures not generally known, and points out that Governments are justified in reforesting waste land, just as they are in assisting railways or other internal improvements on broad lines.

THE GRANGE AND FARMERS' ASSOCIATION

"To develop a better and higher manhood and womanhood among ourselves", "to enhance the comforts and attractions of our homes, and strengthen our attachments to our pursuits"; "to foster mutual understanding and cooperation"; by "meeting together, talking together, working together, buying together, selling together," by suppressing personal, local, sectional and natonal prejudice. and all selfish ambition." These are some of the specific objects for which the Dominion Grange and Farmers' Association exists, and some of the methods whereby it works. It is each members's duty "to do all in his power legitimately, to influence for good the action of any political party to which bo belongs," and "to do all he can to put down bribery, corruption and trickery, and see that none but competent, faithful and honest men. who will unflinchingly stand by the public interests, are nominated for all positions of trust."

In these days, when politics are run by the "Machines," when nearly every other industry except agriculture is carefully organized, and brings its influence to bear to secure special legislation in its own favour, when there is the subordination of the public welfare to that of privilege and vested interests; in these days it is highly important that farm ers awake to a realization of their position, and the country's need. No other organization than the Grange and Farmers' Association seems as likely to meet the situation, and solve the problems of the day. The farmer is not adequately represented in public life: let him organize, think, study, speak, and use his influence for the uplifting of the standard of political morality: let him "go into politics"; not as a partisan, but as one who intends to elevate the tone of public life, and not as one seeking special favours for himself or his fellowworkers, but as one who demands a 'square deal" for all.

The Grange commends itself to all public-spirited agriculturists, and should be warmly supported. The Farmers' Institutes have done, and are doing, splendid work along technical lines, but, owing to their financial dependence upon a party Government, a very large element of independence is sacrificed, and they do not meet all the needs of the present time. Two years ago The Old Dominion Grange amalgamated with the Farmers' Association. A revised and liberal constitution was adop-In view of the reviving interest in led, and the combined organization

November

now solicits ers, for their welfare. The be held in a a prospect of Growers' and of Manitoba, berta. The t A number of affecting the w under conside time that sub organized thro breadth of Ca formation as t or other matte with the Secre

Alliance, Ontar We bespeak Farmers' Assoc port of all th for apathy and



Butter Makers a tions to this depart matters relating to mest subjects for o letters to the Crean 200000000000 Creamery Br

A. Ruddick, The creamery industry differs ing branch in much as the cr ducted on sever is only one plan tories are mana creameries opera or whole milk cre ral establishment skimming station ering creameries, delivered by tean ing territory and creameries, which rail from a more ritory. Of cours tems differ only ciently to put the ferent category.

Where condition milk supply will tained whole mill ideal system for c tive buttermaking to control the contribute to the ma with that sy article any other. The co-where that plan i far succeeded in b reputation for mal article of butter. is the universal sys Townships of the bec, which district tation in Canada butter, the whole m vails. There are these western like north-western part such a system canning to sparce settl milk production, an is the only one prac It will depend or

to whether the sma large centralized p ing home separated the better satisfacti tend to recommend tems in preference

D BUTTER FROM do not agree, he made on the cream-Allow me to quote a

question from my r "While I agree w much of the gather has so far been infi that it is easier to r *Extract from an ad fore the last meeting Dairymen's Association

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now solicits the support of all farmers, for their own and their country's welfare. The annual convention will be held in a few weeks and there is a prospect of affiliation with the Grain Growers' and Farmers' Associations of Manitoba, Saskatchewan, and Alberta. The time is ripe for action. A number of public matters vitally affecting the welfare of all farmers are under consideration, and it is high time that subordinate Granges were organized throughout the length and breadth of Canada. All wishing information as to mode of organization or other matters should communicate with the Secretary, J. G. Lethbridge, Alliance, Ontario.

We bespeak for the Grange and Farmers' Association the hearty support of all thing agriculturists, for apathy and delay spell disaster. -----

Creamery Department Butter Makers are javited to send contribu-tions to this department, to ask questions on the sender of butter makers and to sup-set avalates to be Creamery Department.

Creamery Branch of Dairying*

Creamery Branch of Dairying" J. A. Buddick, Dairy Commissioner, The creamery branch of the dairy industry differs from the cheesemak-ing branch in one particular, imas-much as the creamery may be con-ducted on several plans, while there is only one plan on which cheese fac-tories are managed. Thus we find is only one plan on which choese fac-tories are managed. Thus we find creameries operated (1) as separator or whole milk creameries, (2) as cent-ral establishments, with contributory simming stations, (3) as cream-gath-oring creameries, where the orcam is skimming stations, (3) as cream-gath-ering creameries, where the corran is delivered by team from the surround-ing territory and (4) as surround-creameries, which receive creamined creameries, which receive creamined them differ only in degree, yet auffi-cently to put them in a slightly dif-ierent category.

lema differ only in degree, yet suffi-ciently to put them in a slightly dif-ferent category. Where conditions of settlement and milk supply will permit, the self-con-tained whole milk creamery is the ideal system for earrying on co-opera-tive buttermaking, because it is easier to control the conditions which con-tribute the making of a superior tribute the making of a superior for a store of the set of the set as a strictly fine article of butter. In the Eastern Townships of the Profin the Sastern Townships of the Profin the set theter, the whole milk system about value. There are district, howyre tails the universe and the Ditter, the whole milk system also pre-vails. There are districts, however, like these western part of Ontario, where such a system cannot be operated, ow-ing to sparce settlement and limited milk production, and home songration

ing to sparce settlement and limited milk production, and home separation is the only one practicable It will depend on circumstances as to whother the small creamary or the large centralized plant, both receiv-ing home separated cream, will give the better satisfaction. I do not pre-tend to recommend either of these sys-tems in preference to the other. Soon BUTHER REM CATHERD CHEAN

BUTTER FROM GATHERED OREAM I do not agree, however, with those who assert that good butter cannot be made on the cream-gathering system. Allow me to quote a reference to this

Allow me to quote a reference to this question from my report for 1906. "While I agree with the claim that much of the gathered cream butter has so far been inferior, and believe that it is easier to reach a high stan-"Extract from an address delivered be-fore the last meeting of the Manitoba Dairymen's Association. dard of excellence with the central dard of excellence with the contral separator or whole milk system. I do not agree with the contention that it is impossible to make first-class butter on that system. The common mistake which is made in discussing this que-tan is to blame the system for defects ton is to blame the system for defects that are due simply to the methods that are employed in carrying it out. that are employed in carrying it out. If the buttormaker at a whole-milk creamery were to allow all his cream to stand, such any particular attention days without any particular attention as to temperature, addity or exposure to injure any one suppose he would achieve much success as a maker of fancy but-The main the second sec many cases the cream is not well cool-ed, or even not cooled at all, after separation, and being kept for several days at comparatively high tempera-tures, second avelops the inferior qual-ities which have been enumerated. "Here we have a wrong method, rather than an inherent defect in the variam. There is no reason who reason

rather than an inherent defourtion of a system. There is no reason why or mis of the system there is no reason why or mis of the delivered to the creamery in a sweet, unfermented condition. As a matter of fact, it is easier to properly cart, the eream than it is to handle the the head in the the seame that it is kept can be cleaned in which it is kept can be is storage." I have reason that a suitable place if head the seame that the seame that a suitable place if head the seame that the seame that a suitable place if head the seame that the seame the seame that the seam

for storage." I have recently published a bulletin on this subject (No. 15), entitled "Gathered Gream for Buttermaking." which I shall be glad to send, free of cost, to any person who applies for it. Creamery managers may obtain one for each patron on the same terms.

Dairy and Cold Storage Commissioners Report

The roport of the Dairy and Cold Storage Commissioner for year end-ing March 31, 1909 has been received The report anymer in five and received ing March 31, 1000 has been received The report appears in fire parts, they dealing with the Daring Trainon, Re-port of the Assistant Dary Com-missioner, The Extension of Markets Division, The Pruit Division, respand's Cold Storage Division, respand's The report is a strong one and is soil worth careful study. The illustrations inserted in the report are of interest The picture of the late Thos. Ballan-the, whose mane was so trominently inserted in the report are of Interest The picture of the late Thos. Ballan-tyne, whose name was so prominently identified with Canadian factory dairying from its inception to the time of his death, is reproduced, as is also one of Mr. Harvey Farring-tory in started the first cheese fac-tory in chanda, near Norwich in the Count of Casford, Ont., in the year 1864. Professional and the second British Exhibition as the Franco-British Exhibition as the France British Exhibition as the prace of fruit at exhibitions in Canada give some idea of the the packing of apples during recent years. Taking report on the experimental work of the one of milk show your cherger report on the experimental work on the care of milk show very clearly the results of different treatment of



ation and in the report it is in conven-ient shape to keep for study and for reference purpose. Reside of the cow testing work as carried so the the direction of Mr. C. F. Wunder the direction of Mr. C. F. Wunder are published in some detail. Con-owners will do well to study them carefully. All interested in dairying should receive a copy of this roport. It can be had for the asking from the Dairy Commissioner, Mr. J. A. Rud-dick. Ottawa. dick, Ottawa.

The Butter Trade

We must not depend upon the Eng-lish market for our surplus stooks of butter after this as the first arrivals of new butter have been recoived in London from Australia and New Zoa-land, and a considerable quantity is on the water. The shipments from Australia into London for weak end-ing Oct. 16, were 33,000 boxes, the bulk of it being stored and on con-signment; but there were vary few buyers for stored goods. The new buyers for stored goods. The inad-ing at 116s to 118a-and even higher for choice grass flavored even bins for a for a stored goods. Stor-for choice grass flavored goods. The for choice grass flavored goods. Bior-We must not depend upon the Engfor choice grass flavored goods. Stor-ed goods sold at 107s to 109s. The first lot of New Zealand grass butter sold at 117s to 118s- and stored at 109s. to 110s. Advices from London state that New Zealand factories have contracted their season's make at 107s to 108s. to 108s.

report on the experimental work on the care of milk show very clearly fore, we cannot expect any domand fore, we cannot expect any domand for the there were all the show were to cheese makers. Particular interest Some of the matter contained in the that were dailvered at the Dairymen's Association hast winter, have already able, and as they are 2e to 3e a ble orest and the reports of the sales. How that were dailvered at the Dairymen's able, and as they are 2e to 3e a ble orest at the the matter is of auffici-ciations, but this matter is of auffici-ent importance to warrant wide circul-

values. Prices in New York continue Values. Frices in New York continue to advance, sales being made in that city at the close of last week at 32 1-2 cents for specials, whilst as high as 33 1-2 was paid for fancy marks.— Trade Bulletin.



FARM AND DAIRY

should be discussed at dairy meet season in each district. 2. The instruction work of 1909.

Western District Meetings

Editor, Farm and Dairy,-We again extend a cordial invitation to Cheese-makers, Factorymen and Patrons to meet together in the various district to discuss such questions as they feel are of interest to both maker and producer. The details of making cheese and

Discussion.

9. Factory registration and Makers certificates.

Belmont, Masonic Hall, Thursday, December 2nd. Note.—All meetings, except Wat-ford, begin at 2 p.m.—Frank Herns.

Steel Cheese Vats. Steel Curd Sinks. Steel Whey Tanks, Steel Whey Leaders, Whey Butter Tanks, Water Tanks, Steel Smoke Stacks, Galvanized Ventilators, Cheese Hoops. Everything guaranteed

The Steel Trough & Machine Co., Ltd. Tweed, Ont., Can.

CREAMERY WANTED With Good Facilities for securing good supplies of Cream winter and summer. State full particulars. BOX No. 45, FARM AND DAIRY.

Cheese and Butter Maker Wanted THE MARION BEAVER CHEESE t 2 p.m. Tenders must be addressed to at 2 SECRETARY OF THE CO. The make is about 100 tons of

TWO CENTS A WORD CASH WITH ORDER CHEESEMAKER WANTED.-Half interest in up to date factory, and make the cheese, \$1,000.-Box 15, Farm and Dairy, Peterborough.

November 4, 1909.

Discussion Has the method adopted this year for insuring a uniform Alkaline solu-tion been satisfactory? Discussion.
Defects in some of our hot-weath-er cheese during the past season. Sug-continue during the past season.

gestions for overcoming these defects. Discussion.

The principal points nece The principal points necessary to be observed for successful and prop-er pasteurization of whey. Discussion.
The proper and cheapest method of disposing of factory wash water

Discussion. 7. Further improvements in 7. Further mifform method

milk supply and uniform methods of caring for milk. Discussion. 8. The benefits of cool curing rooms.

10. Why not pay for milk by the test?

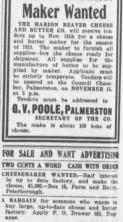
LIST OF MEETINGS

Watford Music Hall, Tuesday, Nov-ember 9th, 2.45 p.m. Hamilton, Dominion House, Thurs-day, November 11th, Listowel, MacDonald Hall, Tuesday, November 16th.

November 16th. Woodstock, Council Chamber, Thurs-day, November 18th. Simcoe, Council Chomber, Tuesday. November 23td. Norwich, Town Hall, Thursday, No-vember 25th. St. Mary's, Council Chamber, Tues-day, November 30th.



Write for new Catalogue



cheese at the different cheese boards. Were cheese sold in this way, it would be possible for the buyers to inspect the cheese and, therefore, the buyers could not make any unjust cuts on the cheese after it was bought. Should the salese of not be skisfied with the priesman not be skisfied with the priesman the cheese, he would be able to dispose of it to the numerous other buyers in Montreal or hold it in cold storage in Montreal or hold it in cold storage plants



A Cement Smoke Stack at an Oxford Co., Ont. Cheese Factory

The illustration shows the exterior of the Durham and Norwich Union Cheese and Butter Factory. The cement smoke stack shown, and which is somewhat of a novely, has given the best of satisfaction. It is described in Farm and Dairy, October 7th, by Mr. A. W. Darroch, who esses and operates the factory.

Best Method of Selling Cheese During the past couple of years a lively controvery has been waged best method of selling these. Most of the factories have selling these of the factories have selling these of the factories have selling the object of the factories in the object of the factories have selling the object of the selling and the object of the obje

in Montreal where cheese can be stored for considerable periods at but slight expense." "One of the leading Montreal ex-"One of the leading Montreal ex-porters," concluded Mr. Campbell porters," concluded Mr. Campbell. "told me that the exporters would "told me that the exporters would not object to such an arrangement as they were anxious to buy the cheese in the cheapest way possible. This exporter said that he would rather have one salesman at Montreal than 20 around at the different cheese boards as a present. He believed that such an arrangement would save expense. This is a question that This is a question that

caving for milk can be discussed more fully at a small meeting of this kind than at our Annual Convention. Those interested are requested to kindly make a special effort to attend the meeting most convenient, and get as many as possible of their officers and many as possible of their officers and patrons to attend. Every person in-terested in dairying will be made wel-cone. No set program will be ad-herei to, but the following questions are µrobably of interest, and we will be glad to have dairymen come pre-pared to discuss any or all of them: 1. Short report on the work of the



Cheese Department Cheese Department Maters are invited to send contributions to this department, to assigned to suggest sub-trading to cheesemaking and to suggest sub-station of the sub-station of th

Best Method of Selling Cheese

merits. By several factories co-operat

merits. By several factories co-operat-ing the expense of selling cheese would not be so great. At present the factor-ies each send a sales man to the cheese board and the Montreal ex-porters have to send representatives to each board."

"Were all the cheese shipped to Montreal, the Montreal exporters

would not have to pay a commission to the local buyers who now buy the



"3 our t

FOU haven't

Y here, "said pay folks u and I know M land wouldn't a

and a wouldn't a "I don't care not," replied 1 fiercely. "I've dollars, Mrs. G roast of pork an origing and crac raisins and crac my children's T told the butcher I would leave the with Liza, and them to-morrow ask them to trus

and I've got to h "It's a likely that two dollars, show your fac snarled the old sunken in the dej ther nillow locking ther pillow lookin

ther pillow lookin ly malignant. "I ain't that returned Hanna said I'd come, a got to get up bef my own dinner cook it. but I'll that two dollars."

For answer Ma her bed, and press of back to Hannal another word. Si even the indomita the other woman. the greatest force utter negation

Finally poor Hi home without her walked down the walked down the of the village be houses, which seem asleep, and in son she was fairly tr She unlocked the tra She unlocked the and stole in caution wake the children, said, she sat beside dow, and looked o street. Early in th there was a rime o on the ground. TI there was a rime o on the ground. T a cold green light. pressed by a numb mee itself. She di that night. She as that night. She as out ogo to MacFa sho whispered, shal shoulder tenderly. preity Line eyes ar alconju. sleepily.

"Now," said Has something to tell you make a fuss about i

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"I believe that the mind can be profaned by the habit of attending to trivial things, so that all our thoughts shall be tinged with triviality."

The Strike of Hannah Mary E. Wilkins Freeman.

(Continued from last week)

ther pillow looking cunning, and fair-ly malignant. "I ain't that kind of a woman." "turned Hannah indigmantly. "I said I'd come, and I'll come. I'we got to get up before daylight and get my own dinner ready so Liza can cook it, but I'll come. But I want that two dollars."

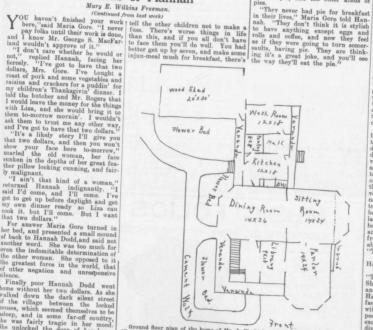
that two dollars." For answer Maria Gore turned in her bad, and presented a small mound of back to Hannah Dodd, and said not another word. She was too much for even the indomitable determination of the other words. even the indomitable determination or the other woman. She opposed to it the greatest force in the world, that of utter negation and unresponsive

silence. Finally poor Hannah Dodd went home without her two dollars. As she walked down the dark silent street of the village between the locked houses, which seemed themselves to be alson and in some faceful outling. houses, which seemed themselves to be saleep, and in some far-off couldry, she was fairly tracic in her mode. She unlocked the door of her house and stole in cautionsly, lest she should wake the children. Then, as before said, she sat beside the kitchen win-dow and locked out as the wing. which the children. Then, as before said, she sat beside the kitchen win-dread and sate beside the kitchen win-street. Early in the season as it was, street. Early in the season as it was, the season as the season as it was, pressed by a numbing with the season as it was that night. It was before as dighter the season as it was before that night. She sat thing here the season as the season as it was before as dighter the season as it was before and say jest the same to him." The winspeced, shaking Elias's little presend by MacFarland here, "first houlder tenderly. Elias opened the reactive lite of you and you mustin" make a fuss about it, and you mustin"

you'll have a dinner good enough for anybody. I guess if you knew how many poor folls didn't have half as much you'd be thankful.'' But noor bigs and the formation of the second second

many poor folks didn't have half as much you'd be thankful." But poor Eliza sobeld faindly in spite of herself. She was hungry. "Cry baly!" said her mother in a violent whisper. Then she bent ov-er, tucked in the clothes and kissed her fondly. "Now, go to alsep again," said she, "and do what I have told you, and don't you make a fuss yourself or let the other children make a fass, or the time will come when you won't have anything half as pool as coffah to eat." The Hannah Dodd reitraed her resumed the Markarland house and resumed the fastigne would have rea-tized little fastigne would have rea-tized little fastigne would have rea-shicken pipt, and the spite of her Markarlands were expressed at ten, e cording to the family traditions, chicken pip, and the other kinds of pipes. "They never had pip for hereatters

"They never had pie for breakfast in their lives," Maria Gore told Han-nah. "They don't think it is stylish



Ground floor plan of the home of Mr. J. W. Richardson, Haldimand Go., Ont. See illustration of exterior of house on page 15, has week's issue. Note the attractive dower beds, good concrete walks, the spacious hay windows in parlor and sitting room, and the convenient wash room in the rear.

"Them pies are good if I do say it," replied Hannah grimly, "and I guess it won't hurt them if they ain't stelish ones."

"You don't know anything about such rich folks," said Maria Gore, go-ing out of the kitchen with a swish of her black silk skirts."

of her black silk skirts." "Don't want to either," retorted Hannah, but Maria did not hear her. The MacGralands arrived at half-past nine, and presently there was an irruption of all of them inner the litchen. They spoke to Hannah these suntu, they avalamed and nyabe irruption of all of them into the sandy, they exclaimed and praised, but abe took it all grinnly. "She's a of a reliaries mark as they went out. Hannah Dodd did not know what

that meant, but she langed is the not complimentary, and she closed her mouth more tightly as she worked. She was carefully taking from the mouth more tightly as also worked. She was carefully taking the she work of the she which had really been had been and the she work of the she will be the she work of the she was a she will be she work of the brick oren and exclaimed with de-light and Hannah had felt guilty, but whe said noting.

light and Hannah had reit guiny, oue she said nothing. When she had the long table in the dining-room set, and all the pies there-on, she opened the door of the sitting-room a little way, and called in a harsh voice, "Mrs. Gore, breakfast's ready."

ready." Then she went back in the kitchen with long strides. She had been in terror lest she might be required to varit upon the table, but Mrs. Maria Gore had told her that it was the favey of the MacFarlands to wait up-on themselves. "They want to dow crything just the way their great-grandfather used to," said she. Hannah heard the jubilant." the dining-room, and the gay chatter the dining-room, and the gay chatter and laughter as the MacFarlands fell upon the pics. She went about pre-

the chinng-room, and the gay chastes and laughter as the MacFarlands fail upon the pies. She went about pre-paring dimer. There was much to do. There were vegetables to boil in the pots awung upon the crane, and turkeys and chickens, and a sucking twice set before the fire. If Han-the would have waxed profane. Pos-sibly she have waxed profane. Pos-sibly she may be a good Christian the would have waxed profane. Pos-sibly she may be the set of the "When folks found to theter ways of doin' things ut done to the ways of doin' things ut do not be the ways of doin' things ut do not be the ways of doin' things ut do not be the ways of doin' things ut do not be the set of the old ones it is half as good," abe muttered, she have do not up, room say how much in the dim-ing-room say how much at doine dates, and her lips curled eardoni-cally.

cally. Hannah toiled and toiled. After breakfast she had the dishes to wash, then the table to see of grandly for dinner with the fine of grand sil-ver, which had been brough at an asfa-deposit vauls, and the of the dish ton china. Dinner was to be at the clock. At quarter before every-thing was in readiness, Hannah heard voices exclaiming how good the dinthing was in readiness, Hannah heard voices exclaiming how good the din-ner smaller. Mrs. Maria Goro came to the kicken door, arrayed in her best blacked. Mrs. Maria Goro came her gold-bows. She looked through her gold-wed repectacles at Hannah, and they glittered red in the light from the bearth fire. 'Is dinner about a seating?' "they an inquired sharply. "They as all ready to dish up," replied Hannah.

"They are asking." "It's all ready to dish up," replied Hannah. "Well, dish up," said Maria Gore. "Well, dish up," said Maria Gore. "Be orteasted, her Llack silk trailing and flouncing with load whispers. Hannah began to "dish up." Her fath was tragic. She was thinking was tragic. She was thinking except codfish at home, with mothing except codfish for their Thanksgiving dinner. She was a true that make in the voman's stern New England heart. She was a true New England She stood for one minute in the kitch-en, not heatiating, but stunned, as it were, by her own purpose. Then Hannah Dodd let hersalf go. Horedi-tary initincis drazgod her like wild horses. Her conviction of injury and injustice, her revolt against oppre-sion became terrible powers against which she was helples. (Continued next week.)

Country Homes

Bertha A. Duncan, Emery, Ont. Those who have reached years of maturity, and recall conditions as they maturity, and recall conditions as they existed in the pioneer days of our country, could scarcely believe it pos-sible for such changes to take place in country homes in so short a time. The early settlers were content with a log house of small dimensions, but few of their grandchildren would be satisfied to house a kide invoid be satisfied to bring a bride into such a humble abode to-day. Not many e abode to-day. Not man care to hew out a home for would themselves as our grandparents did in the early days. People are willing to begin just where their parents leave off after long years of struggling, and seldom do they realize- what such struggles cost.

struggies cost. Frobably one reason why so many left their country homes for city life was about the time machinery was first used. Up to that time a great many men were required to harvest the crops, but with the invention of form mechinery the miner the second farm machinery, the number required lessened, consequently the unemwas ployed must seek employment else-where, and the most likely place would be in the city where these implements were being manufactured. Another reason might be, that city life appeared to them more attractive than coun-try life. This may have been true in early days, but is it true to-day? Is it not an improvement of rural en-vironment which is tempting many to return to country homes? Travelling through the country one

finds a great many changes in the past few years,-trolley lines, telephones, rural mail delivery, etc... these are the improvements which make the city extend into the coun-try, and make our rural homes the more desirable

In selecting a home we have a great variety of materials to chose from. In the prairie country, on the other hand, there is a great deal of monotony, but in this beautiful Ontario of ours with its beautiful bilario or ours with its beautiful hills, valleys, rivers and trees to add to the charm of our home, it would be difficult to find two places exactly the same.

SELECTING THE SITE One of the first points in selecting a home would be to consider the aius of the individual members of the famof the individual members of the fam-ily. All the family may wish to live in the country; yet some may like to be near enough to town or city that they may go to business and yet enjoy the privileges of a country home. Therefore, it would be well to clear an enough to form the town or select a place convenient to town or select a place convenient to town or village, not larger than can be cared for by the family without incurring greater expense than it will yield. The situation of the home is very imortant. There are instances of he built on that part of the land which not much use for cultivation, prob is not much use for cultivation, prob-ably near a swamp. We want good surroundings for homes, and as bean-tiful as possible, a site, high enough to afford good drainage, but not ne-cessarily the unprotected hill top. All situations have their advantages and disalvantages, and should be thor-oughly considered before giving a fin-al decision in the selection of a site decision in the selection of a site a home.

The general appearance of a house expresses the individuality of the owner, and to walk through each apart-ment only corroborates one's views. From the outside one can judge whether he is neat, orderly, or artistic, or whether he cares nothing for the elements of neatness and beauty. His parlor indicates whether he cares most for show or comfort he the parlor indicates whether he cares most for show or comfort, his library re-veals the character of his mind, and by the furnishings of the dining room and its viands, one can judge whether he loves the pleasures of sense more than a strong body. It is not neces-sary to see the man, to have a fairly clear idea of him WHAT THE MOME SMOULD ME. A country home should not be a city house transferred to rural surround-

ings. In the city the nouses are crowded together and are usually long and narrow. Such a house standing alone in the country, unprotected by trees, would give one the impression that a good strong blast might this a good strong Diast might blow it down. A more solid looking house protected by a few trees is more de-zirable for the country. It should be of as good construction as possible to be convenient. Many of the country blow homes which were built years ago are not very convenient, and one must take a great many unnecessary steps in doing the work of the household. A little more money spent on altera-tions to improve these household conditions would be a wise investment. There is no reason why the housewife should not have conveniences to save should not have conveniences to save her strength and time, as well as the farmer have all the labor saving ma-chinery on the farm to lessen his la-bor. Not always are the husbands at fault; the wife toils from early morn fault; the wife tous from early morn till late at night, simply because she is content to go on in the same way year after year, trying to do with what she has rather than incur a lit-what she has rather than incur a little expense for labor saving devices.

WIVES-PLAN YOUR OWN HOMES. In building a new home it is well In building a new home it is well for the housewife to be consulted about the plan-for who should know better than the woman who has to live in it and do the work what will be most convenient for her? A care-ful study should be made of the plan before any work is begun in the con-struction of the house. It is much registe and cogis loss to make alteraeasier and costs less to make altera tions in the plan, before it is made inhouse, to a house, than after. Sanitation and ventilation should be carefully considered before building operations are begun. To enjoy good health we re-quire a good system of ventilation in our homes, combined with plenty of sunshine and good nutritious food well cooked

cooked. Too often the parlor is given more thought than the kitchen. Elaborate furnishings and anything that will make a show, are to be found there; while out in the kitchen, where the housewife has to spend most of her time in looking aftor the needs of the family, there is nothing to lighten labor, and everything to make her

cross and irritable. Why should this be? The time is coming, yes, it is at hand, when women are waking up to realize that labor-saving devices are as necessary for women as for men, and are insisting upon hav-ing them in their kitchens. In many farm homes we find large kitchens which are used as kitchen and dining room combined. The small kitchen convarient area.

small kitchen conveniently arrange small kitchen conveniently arranged is preferable for lessening labor. Hav-ing it separate from the dining room is desirable. Why not have a parti-tion put up to make two rooms of the d is large kitchen. It will not require as much labor to do the work, and the meals will be more appreciated in a cool dining room, free from odors of cooking, than in a hot kitchen.

ROOMS IN THE HOUSE.

The number of rooms in a house de-The number of rooms in a house de-pends on the size of the family to oc-cupy it. It shows poor judgment to have so many rooms that some of them are never furnished. And a worse fault is to furnish them so elaborately that the members of the family are afraid to use them. What is more unpleasant than to go into a parlor to wait for a friend, and find everything so stiff that one is afraid to pick up a book to read while waiting, for fear it might not be replaced at exactly the same angle? Why not have everything for use and not so grand that one cannot enjoy them? Above all simplicity should predo-minate. The less carved furniture and fancy ornamentation in the home.

and more easily it can be kept clean and sanitary. In purchasing it is well and more case. and sanitary. In purchasing it is wen-to keep this point in view, as it will require less of the housewife's time require less of the housewife's time to keep this point. require less of the housewife's time and strength to keep it in perfect con-dition, and give her more time to spend in reading and recreation. It is possible, too, to have simplicity in the deep time to be a strength of the deep spend in reading and recreation. it is possible, too, to have simplicity in all the home decorations. One does not need to go into expensive mate-rials to have pleasing effects. Some of the less coulty materials give just as good satisfaction. Because one's good satisfaction. Because one's neighbors have expensive articles in their homes is no reason why every their nomes is no reason why every one should have then, providing they cannot afford them. It shows wisdom to always live within one's means. Nor should the color scheme be forgotten. Harmony of color is very important, and has great influence on refinement in the home. Each must use her best judgment as to what is the best color for each particular the best color for each particular room, what are most appropriate furnishings and to not forget some good pictures.

********************** The Upward Look When Fear is Impossible There is no fear in love; but perfect

hath torment. He that feareth is not made perfect in love.—1 John 4, 18.

Much of the misery in the world is caused by fear. Fear of sickness and pain, of want, of ridicule, of fail-ure in one form or another, of death, And yet; it is not God's will that this should be the case. He has shown us clearly in Hi that us clearly, in His holy word, that just in proportion as we love Him fear will drop away from us. "Thou wilt keep him in perfect peace, whose mind is -

Feeding Farm Hands.

Every farmer's wife knows what tremendous appetites farm hands usually have; but while they eat well they work well, too.

cream or milk is the greatest break fast in the world for a man who needs vigor and strength for a long day's work. The man that eats Quaker Oats plentifully and often is the man who does good work without excessive fatigue. There is a sustaining quality in Quaker Oats not found in other foods, and for economy it is at the head of the list. A whole family can breakfast for a week on 10c worth of Quaker Oats.

(Concluded next week)

Here's a good suggestion about feeding farm hands. Give them plenty of Quaker Oats. A big dish of Quaker Oats porridge with sugar and



November

stayed on the in thee. Tru ever; for in everlasting st Our text ma

fear enters ou dence that we trusting God a casteth or John 4, 16). remember this, our text, it there follow but God castetl hath torment. made perfect in finer or mor definite than t

we love G. in Him and in when we doub creeps into our of mind and is Faith ena troubles an would let them. "The Life Rad presses this th "Even the most their hold over that these, as like expression People talk about the will of God phrase being 'i That has been a tradition that i

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stayed on thee; because he trusteth stayed on thee; because he trusteen in thee. Trust ye in the Lord for ever; for in the Lord Jehovah is everlasting strength." (Isaiah 26. 3, most sorrowful, instead of the most joyful petition."

Our text makes it clear that when fear enters our lives it is direct evi-dence that we are bondlowing and trusting God as we should for perfect have easterhout fear, God for perfect by easterhout fear, God for the fear enter the fear of the fear of the fear enter is no fear in God but God casterhout fear, because fear halt torment. He that feareth is not made perfect in God, Could anything be finer owne encouraging or more We must ever bear in mind that God loves us and that He desires to give us every good and every perfect gift. In order that we may receive these gifts we must have faither that as God would have us live. "Anxiety and misgiving," wrote Fonelon. "pro-ceed solely from love of self. The love of God accomplishes all things quict-ly and completely, it is not anxious or uncertain. It is in forgetfulness of self that we find peace. Happing is he who yields himself completely. Jis he who gived is himself completely. Jis he who gived is himself and the solution of the inward whisper of His spirit and follow it—that is enough: but to listen one must be silout, and to fol-low, one must be silout. be finer or more encouraging or more definite than that?

be finer or more encouraging or more definite than that? If we love God we must have faith in Him and in His love that fear creeps into our hearts, ruins our peace of mind and is a cause of torment to us. Faith enables us to rise above the troubles and trials that, if we would let them, would crush us. In "The Life Radiant?" Lilian Whiting "The Life Radiant?" Lilian Whiting "The Life Radiant?" Lilian Whiting "The second track of the will reflect that these, well as his joys, are alike expression well as his joys, are alike expression well as his they the divine will. People talk about of the divine will. People talk about of the divine will. People talk most is for a sing 'resigned' to phrase being 'resigned' to Paradise. That has been an inconscitably false tradition that repeated the prayer: Handkerchief corners will meet more exactly if the handkerchiefs are folded with the firm crease on a line with the width-wide threads of the When wringing out garments hav-ing buttons on them, be careful to keep the buttons near the lower roller of the wringer and they will never pull out.

FARM AND DAIRY

Thy will be done,' as if it were the Reseaseseseseseseseseseses OUR HOME CLUB We must ever bear in mind that God loves us and that He desires to

PROFITABLE EVENINGS.

PROFITABLE WYENINGS. The long evenings are once more with us. It is dark now before seven 'clock, and supposing the hour for re-'clock, and supposing the hour for re-hours in which the male portion of a rural community can do little at their ordinary avocation. The ques-tion hence, as to the best way to spend this time is important. Some are accustomed to spend it in idle-ness. They sit on chairs, or lie on the sofa dozing. Some spend it ra-taling the gossip of the neighbor-houd. Some pass it reading the daily-or weekly newspaper or a farm of the sofa dozing. hood. Some pass it reading the daily or weekly newspaper or a farm jour-nal, and some in games. Now the reading of a newspaper, and such a magazine as the "Farm and Dairy," may be a profitable exercise. Yet no one should be content in the ab-vence of a few cond Looks in which hing we a promente exercice. Fiel no one should be content in the ab-sence of a few good looks in which are expressed thoughts of men of brains on subjects of permanent im-portance. There are books of this character treating of agriculture, hor-ticulture, the dairy and other depart-ments of industry, and whose con-tents those who live in the country will be the better for knowing. Such literature may be had the book stores at a small outlay, or in public ibraries. Several of these books, as well as others by standard authors, could be read carefully between now

the farm in return for their services I don't recall that I have ever known of any such arrangements with the girls of the family. Why is this, and is it fair.?—The Daughter.

Women's Institutes Popular

We publish in this issue an illustra-tion of the East Northumberland Wo-

tion of the East Northumberland Wo-men's Institute, showing the Wooler branch. This Institute screatery "I am particularly interested insuch papers or magazines as Farm and Dairy. I have been a member of the Women's Institute for some years. We learn many useful things as we meet from month to month, both in We learn many useful things as we not from month to month, both in control of the second second second well. Household economy and domes-tic science hold a high place in our bound second second second second which are hold a high place in our home send to the betterment of our home send dwise every woman who reads Farm and Dairy to join a Wo-mear har, then to write the District Officers to come and organize one as soon as possible."

... Making Bed Time Pleasant

Busy mothers are prone to hurry their children into bed. I would that all would reserve a certain amount of all would reserve a certain amount of time for the children's bed hour, mak-ing it pleasant, so pleasant that they will ever look abck upon it with the sweetest of memories. Listen to their

The Washboard **Ruins Clothes**

Take a new shirt. Soil it well! Then soap it, and rub the stains out of it on a Washboard. Do this six times. Then look at the hems, collar and cuff edges and the button holes closely.

stains out of it on a Wanthonce by the home, collar and cut at the home, collar and cut bard, steady can had the life of the sarment spond takes 50 cents of wear out bard takes 50 cents of wear out the collar and the star spond takes 50 cents of wear out the collar and the star the star the star of the star the star the star of the star the star of the star the star the star of the star the

This free or onrare. Here it is it is a solution of the work and the wear it saves you have to make a the warpens. at any seep it you may be a solution of the work and the wear it saves you at any seep it you may for it out of the work and the wear it saves you at any seep it you may for it out of the work and the wear it saves you at any seep it you may for it out of the work and the wear it saves you at a save seep it you go and it runs as easy as a sewing machine. Even a full a spinning to go and it runs as easy as a sewing machine. Even a full a spinning to go and it runs as easy as a sewing machine. Even a full a spinning to run the save with it as easily as a strong woman. Tou may prove this for your dan was will it as easily as a strong woman. Tou may prove this for your dan was a will it as a strong woman. The "100 Gravity" free for a mathematic save as a set of a save you can prove with easy the both ways out of may make and do all that a How rould I make a cent out of that deal if the "100 Gravity" wouldn't may it will all othes in half the time with half the wear and do all that it Write to me to day for particulary. If you say so, I'll sond on the mathematic save it of the save of the save of the mathematic save of the mathematic save of the save of the mathematic save of the save of the mathematic save of the mathematic save of the mathematic save of the mathematic save of the save of the mathematic save of the save of the mathematic save of the mathematic save of the save

say its will. Write to me to-day for particulars, if you say so, I'll send on the ma-hing for a month, so that you can be using it in a week or tor days 2000 people are now using our "1900 Gravity" Wahars. Write to-day Write Scharge The Toport Scharge The '1900' Washer Co. 357 Yonge Street, Toronto, Oat.

The above offer is not good in Toronto or Montreal, and suburbs-special arrangements are made for these districts.

It is desirable to mention the name of this publication when writing to advertisers

HUN GE Contraction of the local division of the loc Jan C

our lives and peace and joy enter in its stead.-I.H.N.

...

...

East Northumberland Women's Institute, Wooler Branch

Taken at "Floral Hill," the home of Mrs. Ealle Terrill. This is not an Insti-tute plenic group, but represents simply one regular monthly meeting of this branch. Wooler branch is a progressive and the second second second mestic science. Much enthusiasm is manifest at the meetings, and it is one of the up-to-date branches in its locality.

and April, when the evenings are again short, and the busy outdoor life resumed

The reading need not be in silence, The reading need not be in silence, but aloud, so as to give other mem-bers of the family the benefit. Ques-tions could be asked, and these with the answers would doubtless give rise to interesting and profitable debate...-"Parson."

IS IT FAIR.

18 IF PAR. I think an interesting and practi-cal subject for discussion in the Home Club, would be whether the pracents, when able, should give their barrents, or whether it is better for the act or whether it is better for the act own exertions in getting a start for himself. I think there is a great deal to be said on both sides of the question.

question. It would be interesting too, if those farm, or teams and cattle, (or money, if they reams and cattle, (or money, if they reams and cattle, (or money, if they would eld why it is that the daugh-ters should not have an equal share when they come of age. In many families where the parents are not able to give their children any start in life farm several years, with the understanding that when they marry they are to have part of

little sorrows, answer their questions as lest you can. In return you will keep the child's confidence as he grows older and other influences (of-ten bad ones) are brought to bear upon his life.



15

Embroidery Designs Maters distribution for the column Reders distribution of the col



430 Design for Braiding a Panel and Bodice Front. Transfer patterns for a skirt panel and small bodice garniture are given. Soutache braid (silk, mohair and cotton) and rat-tail cord are approp-Price 10 cents.



438 Designs for Embroidering Initial Frames in two sizes. Six transfers of each size are given in each

The ribbon effect, leaves and dots are to be worked in solid embroidery and the stems are to be outlined.

...

HINTS FOR THE HOLIDAYS Why not send for one of our New Premium Lists and make a selection of several premiums which you would like to have for the Holiday Season. You can earn them in a short time, and save buying gifts at Christmas time. A club of new subsoribers for Farm and Dairy is easily secured.

...

Have you looked into our Music Folio Premium offer ? It is a good one.

FARM AND DAIRY

Our New Cook Book free for only two new subscriptions.

BEET SALAD

Take 1 lb each of lean beet, veal and pork. Remove all gristle, put through the food chopper and mix well, adding 1-2 cups fine crumbs, 3 well beaton eggs, 1 cup water, 1 tablesp sait, ½ teasp white popper, 1 grated onion and ½ teasp curry powder. Work thoroughly and shape not be the same of the same same is a beat, arrange in a shallow pan, iong pork and bath this lices of lard-ong pork and bath this lices of lard-oren, Lasting every 10 minutes. To 2 qts. chopped beets add 2 qts. chopped cabbage, 2 cups sugar, 1 cup grated horse-radiah, scant tables salt, popper to taste, and cold vinegar to cover. This makes a gallon jar full and will keep all winter.

GREEN TOMATO SAUCE

One peck green tomatos, 1 head cabage, 10 large onions, 1 large head cabry, 2 green peppers, 2 lbs brown sugar, 1 tableap mustard seed, 3 qts vinegar, and salt to suit taste. Cut up the second over-night, drain off in head, and put all through a food chopper and boil one hour.

CANNED PUMPEIN

Fresh home-stewed pumpkin makes the best pies. This cannot be had the year round. But pumpkin may be so treated as to defy an epiceure to distinguish between the preserved and the fresh reachest the fresh product.

the fresh product. Stew the pumpkin "dry," that is, reduce the pulp greatly. Sift. Then to every 34 cop pumpkin add 34 copy white granulated sugar, 1 scant teasy ginger, 1-3 teasp cinnamon, 1-8 teasp nutmeg, and a pinch of salt. Blend thoroughly. Heat to the boiling point being careful not to burn the mis-ture. Seal in airtight puint jans. This will keep indefinitely.

The preserving may be done in the fall, when pumpkins are fresh, or a little at a time at each stewing, or in you have not sent in your renewal for the coming year, this is a fine chance to secure a folio. See adver-tisement on another page. little at a time at each stewing, or in the winter, when pumpkins will keep no longer. Whichever plan is foi-lowed, the product is most convenient. For pie disolve 1 cup of preserved pumpkin in 1% cups shot scalded milk, add % cup cream and 2 well-beaten eggs. Bake in a rich crust 1 hour and you have the famous old "'New England" pumpkin pie. non salt and soda and force it down more and then pour down a kettle of boiling water; flush afterward with plenty of warm water.

ROAST HAM

Wash and scrape carefully and soak



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November 4, 1909.



On taking

moderate oven 6 hours. On taking from oven remove the paste and skin, sprinkle with fine bread crumbs and brown sugar, return to oven for an hour. It is delightful served either hot or cold.

MEAT ROLL

Take 1 lb each of lean beef, veal

... The Kitchen Cabinet

Noticing the article about kitchen cabinets in the October 7 issue of Farm and Dairy, by Mr. J. L. Mur-ray, makes me say to the readers of Farm and Dairy that II hope Mr. Murray succeeds in selling a cabinet to every woman he shows one too. I also hope he makes a good round com-mission for he deserves it, if he pute

mission for he deserves it, if he puts such a treasure into any house. They are really an essential which should be found in every farm home.—"Aunt Faithie."

... **Our Music Folios** One of the most popular offers in the premium line we have ever made is that of our Music Folios, given away absolutely free for one new (r

a renewal subscription to Farm and Dairy. These folios are printed on the best of paper, are standard selec-tions. These folios could not be pur-chased for less than \$1 to \$1.60. If

...

When a pipe from a lavatory basin or bath becomes clossed with soap, as it often does, mix a handful of com-

dress on receipt of 10 cts.

FANCY BLOUSE 6439

Such a blouse as this will find innum-erable uses. It is graceful, attractive, and becoming. The first state of the state of long lines given

and for chemisette. The pattern is cut for a 32, 34, 36, 38, 40 and 42 in bust, and will be mailed on receipt of 10 cts.



34



The simple over at that falls in coat the straight units be-lines is most be-the with can be made with two or three pockets and is adapted to every seasonable ma-terial that is used terial that is used for boys' overcoats. For a boy 12 yrs old the coat will re-quire 4% yds of ma-terial 27 in wide, 3½ yds 44 or 2½ yds 52 in wide, with ½ yd of velvet of velvet.

The pattern 6460 is cut for boys of 8, 10, 12 and 14 yrs of age, and will be mailed on receipt of 10 cts. on

MISSES' DOUBLE BREASTED COAT 6462

Double broosted ats are always sat isfactory for cold weather, and they are among the smartest shown just now. now. This one is made of diagonal cloth with revers, and trimming of vel-This one is vet, but the style is apropriate for the coat suit as well as for the separate wrap.

Material required for 16 yr is 7% yd 27, 4% yd 44 or 52 in wide with ½ yd 21 in wide for trim-

ming. The pattern is cut for misses of 14 and 16 yrs and will be .mailed on receipt of 10 cta .

... Renew your subscription now. November

neessee OUR FA Cont *********

CARL MERIVALE.-

the fact th fair fair season for yielded well, ba and turnips are rotting. Corn crop. Quite a silos would hold the silo later of do so.-G. B.

PETER

NORWOOD,-W NORWOOD.-W, have been for a ers' Club holds and 4th Tuesday subject for the will be "Feeding important subje farmers of this to make it a "h

WATER

WATERLOO.--W of cold weather through with th the roots are has tion of turnips; n are not so heavy are testing away supar factory con week. More beets ed at that factor week. More beets ed at that facture from lice and rot cellent crop. Mo-been harvested an market. No. 1 Sy Plowing is the ord bady aging to get all. Not much the we leave this t as we leave this is and cannot plow, neighborhood own or has share in a neighbors, this plus is liked better th be working on ti to keep your far don't want to hir machine. People the susai number, hard to get, and h

OXFORI

GOLSPIE.-Rain very short of wath dry for plowing, good shape. Fall y 40 bush. an acre. great difference in early and some ver from 20 to 50 bush; which was a good from 20 to 50 bush; which was a good Oattle have to depe stable feeding as t A. H. H.

WELLINGT

ELORA.-The past completed the grow until there seems r Turnips are a magn vermin, and the on that they are too purposes. Prices for a bush., but are n still a good many los Store cattle being a: a busn., but still a good many los Store cattle being st prospects for winter are not large. Mar are not large. Max more largely grown so with the abundan is still some to as machine still gives a yields of grain of the high prices for pork beef, a spirit of opti the farmers of this sequent effect on the G. W.

MIDDLESE

TEMPO .- A near ne .-- A near trees one, house. Th ut trees on his house. Bear nook in his well kept has a fine crop of m lis owner told the w not take \$10 for the about 15 years old. tree. On October 2 the first apples pick husked and the first this season. Conside grown this year; moo and the seed ground k in his well kept

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OUR FARMERS' CLUB 1.4444444444444444444444444444

CARLETON CO., ONT.

CARLETON CO., ONT. ... MERIVALE-Threahing has been in progress for some time; it has setablish-ed the fact that this has been a viry for season for the farmers. Onto have jielded well, harley extra well. Postokes and turnips are good, none of the patches rothing. Core for ensuinge was a fine crop. Quite a few had more than their siles would hold but they will cust it into the sile later on, as it does very well to do son-d. B.

PETERBORO CO., ONT.

PETERBOROU UD, UNT. NOBWOOD-We are feeding silage, and have been for a month now. Our Farm-er' Club holds is meetings on the 2nd and 4th Tuesdays of each month. The editest for the 4th Tuesday in November State of the 4th Tuesday of November James of this district, and think to in more set this district, and think to to make it a "hummer."-A. B.

WATERLOO CO., ONT.

ATTEND OC. AT. WATERIO CO., AT. WATERIO CO., ANT. WATERIO CO., ANT. WATERIO CO., ANT. WATERIO CO., MILLING, ANT. The Source of the second secon

OXFORD CO., ONT.

OXFORD CO., ONT. OU.BFIE-Rain is needed. Some are very abort of water, and the ground is afty for plowing, but it turns over in good shape. Fall wheat went from 25 to great diff and after. There has been a early and some very atta. Some were in sarly and some very atta. Some were in aring and some very atta. They average turns 20 to 80 bush; peas, 82 bush and refer. which was a good crop, 30 bush and refer. table feeding as there is no pasture.--h II. II.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT. The part hower, we also have a the provide of the root crops MIDDLESLY CO. ONT.

FARM AND DAIRY

ELGIN CO., ONT.

ELGIN CO., ONT. WINN.-This village is south of St. Thomas five miles, and is sortundad St. Thomas five miles, and is sortundad St. Thomas five miles, and is sortundad St. willage runs a large sorting creek, whose with the south of the south of the south of the ber an all. Flour, check, cornneal. lum. ber and the Stort, check, cornneal. lum. ber and the Stort, check, cornneal. lum. ber and the Stort, check, so the south of the work the production of the south of the locate south of the south and the south are south of the south are south and the south of the south of the south of the south are south and the south of the south of the south of the south are south are south of the south of the south of the south are south are south of the south of the south of the south are south are south of the south of the south of the south are south are south of the south of the south of the south of the south are south are south of the south of the south of the south are south are south are south of the south of the south are south are south are south of the south of the south of the south are south are south are south are south of the south are sou

GREY CO., ONT.

GREV CO., ONT. RAVENN--hople pointers are very busy, and will not be through with the apples for a two days yet. Nearly all be farmers have threshed. Grain has turned out well. Pointers are done, so are the set and mangles. The heavy rains of law and mangles the heavy rains of law and mangles. The heavy rains are set in higher. The priose non-tinue firm for both engs and butter. There has been so much rainy wather it has law of the law the law the wather it much and the law the law the law the ing-M. C. P.

THUNDER BAY DISTRICT, ONT.

THUNDER BAY DISTRICT, ONT. SLATE RIVER VALLEX.-Cold weather has been common lately though we have not had one frost yet. Your correspon-dent has been frost yet. Your correspon-dent has been status putting in ements froors in cow status putting in ements to install cements as its is a good year to install cements as the second year cop was very poor this year. Grain was fair; potatoes shon usual. Our local versing administly. Is proves a great convenience.-Z. R. H.

HOLSTEIN-FRIESIAN NEWS

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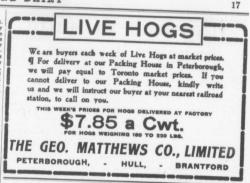
Farm and Dairy is the official organ of The Canadian Holstein Frieslan Association, all of whose members Association, all of whose members the Association paper. Members of the Association is used to be and items of interest to invited to send items of interest to invited to send for publication in this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

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HILL-CREST STOCK FARM

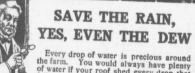
HILL-CREST STOCK PARM Most Holstein breaders are aware that Temperveid De Kol' is now the leading lottetin airc. Not only has be the larg-structure of the state of the state of the state of the large of the state of the state of the f day butter promoted functions of the f day butter of the state day butter and the state of the day butter state of the state of the state of the state of the f day butter state of the state ters, including helfers with first call, be ing above 20 hs, butter in a well we may afely conclude that this bull has fair-tly warded the reputation ascribed him by the world's most noted Holstein breaders. That Holstein men acress the line re-

The proof in the shundare turn percent years in the shundare turn percent percent years in the shundare turn percent percent years in the shundare turn percent percen



thilds," whose 19 A. R. O. daughters aver-age nearly 20 lbs, butter in seven days, of large record butter producing daugh-and out of a dam with three A R. O. lers. The udder development and fine

hilds," whose 19 A. H. O. daughters aver-ige nearly 20 Has builter in seven days, and out of a dam with hire A R. O. The tested daughters of Pontiac's two enform average of 20 has number, have uniform average of 20 has or better in days. We may fairly expect 'Pontao' (Continued on page 19)



of water if your roof shed every drop that fell. Do you realize how much good water the average roof wastes. Notice how the

roof after a rain-fall -- what is not absorbed by the spongy Not after a rain-min-what is not absorbed by the spongy wooden shingles evaporates -very little reaching the reservoir, -- in a light rain, practically none. How differ-ent with a *metallic roof*, -- it is perfectly dry a few minutes after the rain ceases, for as fast as it falls, *almost every* drop runs to the reservoir-no absorption, no evaporation.

A Metallic Roof is not only valuable in saving rain water but a heavy dew will some imes bring a barrelful of clean, fresh water off the metal roof of an ordinary house or barn every drop, a clear gain - meaning so much to you in the summertime when the creeks are dry.

How the farmer's wife appreciates the clean, soft water that flows from a metallic roof-so different from the murky, brown fluid, made so impure from draining through the old moss, dust and dirt that quickly collects on the ordinary wood shingle roof.

Eastlake Metallic Shingles

not only make a clean roof but are absolutely Lightning, Rust, Fire and Weatherproof. They can be laid by yourself or anyone cheaper and quicker than any other shingle, and will last a lifetime. Roofs shingled with Eastlake Steel Shingles 25 years ago are in perfect condition to-day-an actual test-the best guarantee.

Write us, enclosing measurements of your roof for estimates of cost. Let us quote you on rat and mice proof sheet metal granary lining.

"A Metallic Roof and Galvanized Corrugated Iron Siding on your barn make it positive proof against fire from outside sources, and greatly reduce your insurance rate."



It is desirable to mention the name of this publication when writing to advertisers

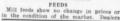
Recence concerned a lb. Repair 200 to 220 and greese at 120 to 140 MARKET REVIEW AND FORECAST

Toronto, Monday, November 1st, 1909. - | here Toronto, Monday, November 1st, 1997, -General trade conditions continue very satisfactory and, generally speaking, aro alhead of last year as regards volume, oblitions and stability. In some cases than for the fully 30 per cent. better than for the stability oper cent. better prices for most commodities a year ago. Prices for mest commodities are firm with an upward tendency. The advance in the Bank of England rate to 5 per cent has hardened the money market, especially for the speculator. Call loans rule at 4_5 to 5 per cent. Discours, however, rule steady at 6 to 7 per cent as to name and nature of account.

WHEAT

The wheat situation is stronger than at last writing. Wheat cables are firmer, and the outlook is for a steady market if The writing wheat cables are firmer, and the outlook is for a steady market is chicked writing the week. On Seriday on all little excitances in Deriday on the chicked outloop is the work. On Seriday on the tions for this option were its higher than on Thursday, and December wheat sold at a higher premium than May wheat, the quotations for the two being \$163%, and \$130%, respectively. Winnipeg did not ablow the same tendency to higher wal-ues. On Priday October closed at \$260 with its and the tendency of the second bundle. Respectively, and the second carbon because of rain. There is a danger of a plague of grasshoppers playing hav-oe with it later on. Higher that an week ago. Ontario flour is quoted high-gr and the general situation is stronger. week ago. Ontario flour is quoted er and the general situation is stre er and the general situation is stronger. Dealers here quote Ontario wheat at \$1.02 to \$1.04 for No. 2 mixed winter and \$1.05 to \$1.04 for No. 2 white outside. A load of fine cereal wheat sold on Toronto farmers' market on Friday at \$1.05, fall wheat selling at \$1.02 to \$1.05 and goose at \$56 to \$70 a bushel.

The rest COARSE GRAINS The oat market continues firm and steady with little channes in quotations from a week ago. At Montreal western oats are quoted at %2 to 4%, and 0.5 hushel. Barley rules standy, treal it is protein at %2 to 56 for feed and %6 to 67 a bushel for No. 2 mainting barley. Dealers here quote barley at 56 to 26 to 46 to 46 to 16 to 16 to 16 to 16 and 6 to 67 a bushel for No. 2 mainting barley. Dealers here quote barley at 56 to 26 to 26 to 16 to 26 to 16 to 16 to 26 to 26 to 16 to 16 to 16 to 16 to 16 to 26 to 16 to 16 to 16 to 16 to 16 to 16 to 26 to 16 to 16 to 16 to 16 to 16 to 16 to 26 to 16 and eve to Dealers here quote party, barley. Dealers here quote party, to 58c as to quality, outside. Peas are higher and quoted at 86c to 87c outside. There is considerable demand from the There is considerable demand from the mardistilleries for rye just now and the mar-ket is firm at 74c a bushel outside. Or Toronto farmers' market oats sell at 42c to 44c; barley at 6ic to 62c; peas at 75c to 80c, and rye at 75c a bushel.





here quote Manitoha bran at \$21 and shorts at \$23 to \$24, and Ontario bran at \$22 and shorts at \$24 a ton in bags in car lots Toronto. About the same prices rule at Montreal.

rule at Montreal. The corn market rules quiet. There are no quotations yet for Canadian corn. A great deal of it has not come to full ma-turry. Montreal dealers quote American to 70% and there. Deal-ers here quot to 70% to a for a set bushel in car lots with a star Toronto.

HAY AND STRAW

Belleving the set the one from the set of th

POTATOES AND BEANS

POTATOES AND BEANS An easier feeling in potates is reported at Montreal, owing to heavy receipts. The quality, however, shows some improve-ment. Ontarios and Quebees are quoted there at 450 to 50 a bag in car lots of the the start of the theter of the due to the start of the theter of the Quotations are 50 to 55 a bag in car lots on track Toronto and 65 to 700 out of store. On the farmers' market potatoes sell at 75 to 56 a bag. on track roronto and ese to ree out or store. On the farmers' market potatoes sell at 75c to 80c a bag. The bean trade is more active, and there

The mean trace is more active, and there is quite a loi of business doing in Ontario beans at Montreal, where they are quoted at \$1.67 to \$1.70 a bushel for car lots there for three pound pickers. Quota-tions here are \$1.75 to \$1.80 for primes and \$1.95 to \$2 a bushel for hand picked.

EGGS AND POULTRY Egg receipts continue light and prices re advancing. There are not enough oming forward to supply the demand and coming forward to supply the demand and stores have to be largely drawn upon. Riraight gathered are selling at around 25 a dozen to be largely drawn upon. In the selection of the selection of the location of the selection of the selection of the selection of the selection of the location of the selection of the selection are firm here and receipte light. In a wholesale way eggs are quoted at 26 to 26 a dozen for ease lots out of store. On Tor-couto farmer's maket new laid sell at 36 dozen for ease lots out of store. On Tor-outo farmer's maket new laid sell at 36 dozen for ease lots out of store. On the selection of the selection of the selection of the dozen drawn drawn of the selection of the dozen for the selection of the selection of the dozen for the selection of the selection of the dozen for the selection of the selection of the dozen for the selection of the selection of the dozen for the selection of the selection of the dozen for the selection of the selection of the selection of the dozen for the selection of the selection of the selection of the dozen for the selection of the selection of the selection of the dozen for the selection of the selection of the selection of the dozen for the selection of the selection of the selection of the dozen for the selection of the selection of the selection of the selection of the dozen for the selection of the

The way is to be a set of the se

BETTER and LARGER than EVER THE ONTARIO PROVINCIAL WINTER FAIR GUELPH, ONT. DECEMBER 6th to 10th, 1909 Over \$13,000 HORSES, CATTLE, SHEEP, SWINE AND IN PRIZES FOR POULTRY, SEED, JUDGING COMPETITION Poultry Entries close NOVEMBER 22nd, while for Live Stock the ENTRIES CLOSE NOVEMBER 20TH For Prize Lists or Entry Forms apply to the Secretary Lieut.-Col. R. MCEWEN, Pres. A. P. WESTERVELT, Secretary BYRON, Ont. TORONTO, Ont.

to mention the name of this publication when writing to adver

FRUIT

FRUIT The apple trade continues gcod. At Montreal during the week No. 1 winter variaties were sold at \$350 to \$4 a bh], and No. 2 at \$325 in large lots. At points in Eastern Ontario apples sold fo.h. for through shipment at \$175 to \$250 up to \$3, straight lots of \$79 as selling at \$325 to \$530 a bb]. The British market keeps view, for foronto farmers' market app so, straight lots of Spys selling at 32.5 (b) 35.50 ab.1. The British market keeps ateady. On Toronto farmers' market apples sell at 81.50 to 83.50 a bbl. The Toronto wholesale fruit and vegetable market closed on Saturday for the senson. The arrivals at the end of the week were mostly grappes and pears. Prices who mostly grapes and pears. Prices ru steady as follows: Apples, 14c to 25, crabapples, 20c to 30; pears, 50c to 38 grapes, 15c to 25c; and tomatoes, 15c to 38 a backet 81 basket.

DAIRY PRODUCTS

DAIRY PRODUCTS The decline in price has brought a more active cheese market. Prices at the local cheese board have advanced from 3yc to 3yc since last writing. At the end of the week quotations on the local boards for week quotations on the local boards of the week quotations of the board of the of the size of the state of the state at 12% for large and 13yc at he state at 12% for large and 13yc at stated with

The butter market rules steady notations about the same as a week y with ek ago, quotations about the same as a week ago, with the exception of choice grades, which are scarce on the local market here. The best creamery is quoted at Montreal at 25% to 26 a lb. Under short supplies the market here keeps firm. Wholesale quotations are as follows--Units, 25 and 25 are started by prints, (bhoice), 22 to 25; ordinard 26 prints, (bhoice), 22 to 25; ordinard 26 prints, (bhoice), 22 to 25; ordinard 26 prints, (bhoice), 25 to 26, and inferior 17; order at 26 to 26 e. Toronto farmers' market choice dairy selfs at 26 to 30 and ordinar ar 26 to 26 e. at 26c to 30c and ordinary at 23c to 26c s

LIVE STOCK

LIVE STOCK The feature of the catile trade continues to be the briak demand for butchers' cat-tle, especially anything with quality to it. The cooler weather has if anything thes demand. Trade in other lines ruled this demand. Trade in other lines ruled has demand any demand to continues heavy. The run cost her a break of common to the solar any any demand of common to lines ruled about steady though the ran continues heavy. The run continues to show a large percentage of common to medium stuff that no one wants if they can get anything better. But the in-creasing scarcity of good stuff makes is mecessary to buy inferior quality at prices that are high, everything consid-end

ered. About the only thing that showed a lower range of prices last week, as com-pared with the week previous, was are port cattle. The top price on Tuenday at the Union Stock Yards was \$560 as compared with \$555 a week ago. Ploked lois could have been sold higher, but drovers preferred to sell good and had together, rather than take a chance of selling without the cholcest ones. Export selers, good to cholce, are quoted at \$5

logether, rather than take a chance of selling without the choicest ones. Expor-steers, good to choice, are quoted at 85 to 53.05; common to good, at 84.25 to 85; 85.35; carport coverport heifers, at 85 to 85.35; chourt coverport heifers, at 85 to 54.05; could be a cert. The top price for butchers' continues at 85.25; though some picked lots probably sent higher. At the city market on Humsday, good butchers' steers sold at prices ranging from 83 to 84 a cert. The demand for feeding atters keeps keen for anything of weight and quality. The demand for feeding atters keeps keen for anything of weight and quality. Dealtrs are paying 84 to 84.40 for the states are paying 84 to 84.40 for the right kind of distillery cat's. Heavy feeders are quoted at 84 to 84.50; feed-t 82.51 to 35.5, choice stockers at 82 to 35.5, choice stockers at 82 to 35.5, choice stockers at 82 to 35.5, choice stockers at 84 to 35.5, choice stockers at 85 to 85.5, choice stocker

strong demand for

A strong demand for ready milkers A strong demand for ready milkers continues under a light supply. Inferior in milk ary picked d. though those fresh in milk ary picked d. though those fresh of the strong of the strong of the strong of the S65 each. with any of extra quality go-ing to 870. Medium coves and springers and work at \$80 to \$80 each. The strong quoted hoge at \$7.56 foch. at country points, and \$7.57 fed and watered on the market here. While receipy show enough comes, there is as yet not reacily enough comes, there is an yet not reacily enough comes, there are quoted at Buf-misshed hoges. Ices are quoted at Buf-faished hoges. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished hoges. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished thoses. Ices are quoted at Buf-faished hoges a wet, as to quality, and







the kind offered. The Trade Bulletin's London cable of Oct. 28th, quotes bacon thus: "The market is steady at last week's advance. Canadian bacon, 66s to thus: week's advance.

HORSE MARKET

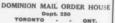
There is a little more activity in some lines of horses but the bulk of the trad-



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WANTED .- Persons to grow mushr of for us during Fall and Winter month for us during fail and Winter mor Waste space in cellar, outhouse or 1 can be made to yield \$15 to \$25 week all Winter. Send for illustr booklet and full particulars. Mont Supply Co., Montreal. pet Montres continues to be i amps. At the ange on Wednes ange on Wedne offer but only of the sales were l demand and in not large. The averaged high, te of prices war y drafts, \$180 t \$140 to \$175; es, \$150 to \$190; carricoably carry serviceably soun

November 4, 1

MONTREAL H treal, Saturday firmer feeling in a numer reeing live hogs this we maintained at , and in some , owt. was paid, a ars selling as h a cwt. HW2

sed hogs are fir fresh killed al \$12.60 to \$12.85 per tes from Great Brit te better markets o an bacon with price ewt. all round. EXPORT BUTTER

EXPONT BUTTEL Montreal, Saturday, rowed tone of the of seame apparent at it has continued through the face of the good arious importing cen in. The better feel ad on the other side a the country where etter limits than they ime, have been able setter limits than they ime, have been able erings at good price narket abowing an a of the previous day, u triday the climax was differings were all sold he market back to to out of the season's eld. Whether or not solution downers aintained, remains se that will be offer week and thereaf not be at all desi y to be any rush i that will be offere see prices come b e these cheese at 11 spread of the goods is cons fine thre fine open weath throughout the onth has helped fow of milk, and the r ing on at present is he recent years, reports the country indicating the country indicating in the output. The qua-net be sufficient to be effect upon the course of hyperback states of the second bary, the quantity somewhat larger than the stock instore here somwhat as a conseque however, is still larger, doubt that the figures the first of November w increase over the quanti-irar ago. ear ago.

ago. market for butt are well maintai lownships' creame 24½c to 25c, the for specially fa The fresh receip re of indifferent picked up at bo being picked up at lo ire quoted on this mark 5%c, according to qual



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continues to be in horses for the lum-camps. At the West Toronto Horse offer but only about 60 were sold of the sales were for the words. The of the sales were for the words. The d demand and inquiry from the west not large. The quality of the offer-session of the sale of the sale of the set of the sales of the sale of the set of the sales of the sale of the sal

MONTREAL HOG MARKET

MUNIPERAL FIGURE MATTER I outreal, Baturday, October 30-There a firmer feeling in the market here live hogs this week, and prices were maintained at the advance of last k, and in some cases an advance of a ort. was paid, selected lots weighed cars selling as high as \$8.50 to \$8.60 a cwt. HW2

ert. Jressed hogs are firm and in good de-und, fresh killed abattoir stock selling \$12.60 to \$12.85 per 100 lbs. Cable ad-ss from Great Britain this week indi-te better markets over there for Canaan bacon with prices advanced 2s to cwt. all round.

EXPORT BUTTER AND CHEESE

Montreal, Saturday, October 30.-The im-roved tone of the cheese market, which meane apparent at the end of last week, proved tone of the cheese market, which beams apparent at the end of last week, as continued throughout this week, and price have been advancing steadily in urious importing centres in droma the sit. The better feeling in cheese here and on the other side has been reflected in the country where the buyers with heter limits than they have had for some time, have been able to buy up the of-drings were all sold at 1%c, bringing the buyers with the start of the start drings were all sold at 1%c, bringing the market haok to the level at which sand the country of the second start which east the second start of the second with second start of the second start and the the second start of the second with second start of the second the second these that will be offered in the country set week and thereafter will be the tail del tos of the second start be small quan-tit that will be off for the small quan-tit that will be offered in bare down y to see prices come back again. In any as the these second starts and the second starts and the second to the second starts and the second starts and the set here scheese at 13%c at b, are comup that will be offered, and we are like, if to see prices come back again. In any age these cheese at 11% a lb. are com-particely dear when compared with the spiembers and early Octobers that were tought at the same price, when the qual-ity of the goods is considered. The fine open weather that has pre-tailed throughout the greater part of few of mills helped to maintain the word mills helped to maintain the or of mills near the make of cheese go-ing on at parts with the mark of the spin few of mills reports from mills of the spin he country indicating a decided increases a the output. The quantity however with

The country indicating a decided increase in the output. The quantity however will not be sufficient to have any material effect upon the course of the market, The dipments this week have been fairly have. The summitty count being onsewhat larger than the receipts, and the stock in storp here has been reduced norwhat as a consequence. The stock, somwhat as a consequence. The stock, however, is still large, and there is no loubt that the figures when published on the first of November will show a decided nerease over the quantity in store here a ver area. ear ago

or ago. be market for butter is strong and ess are well maintained. Finese Rast-Townships' creamery is quoted at m 30% to 25¢, the latter price being eff for specially fancy lois es could re. The fresh receipts from the coun-are of ind/ferent quality, and are are picked up at lower prices. They quoted on this market at from 56 to e, according to quality. Dairy butter sked

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Men should

look for this

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Chewing

Tobacco. It

guaranteesthe high quality of

Black Watch

The Big Black Ping.



is quoted all the way from 17c to 22c a lb., the latter price being asked for se-lected Ontarios, of which the supply is limited limited CHEESE BOARDS

CHEESE BOARDS Ution. N. Y. Oct. 55-49 host of 1720 hox. es, all sold at 16%. Ourb salas, 15%, with some special factories higher. Bitring, Oct. 25-480 hoxes of cheese were boarded all sold at 11 346. Chambeliford, Oct. 25. - 595 hoxes of chess registered; all sold at 11 346. The price hid was rough on salas Madeo, Oct. 27-356 hoxes of cheese boarded and sold at 113% Kingston, Oct. 23-359 hoxes of coheese boarded and sold at 113% Kingston, Oct. 23-559 hoxes of coheese residered. The stocks chand out at 11 346 to 11%.

registered. The stocks cleaned out a. . 346 to 11%. Brookville, Oct. 28.-1655 colored and 675 white offreed; best offer, lic: none sold. Belleville, Oct. 28.-1320 white and 170 colored; 11 546 bid for all offreed, and 1256 sold. Bitchen, Oct. 29.-Thirteen factories board.

1250 sold. Picton, Oct. 29.—Thirteen factories board. ed 135 boxes of cheese, all colored; high-est hid, 11%; 940 boxes sold at 11%; 255 boxes at 11 5-16; balance unsold. Brantford, Oct. 39.—Offered 1110, old 610; vix., 415 at 11%; 80 at 11 9-16; 115 at 11.0.

Napanee, Oct. 29.-385 boxes of white and

Napanee, Uct. 23-355 boxes of white and 365 boxes of colored sold at 11 5:16c. Perth. Oct. 29-1200 boxes of cheese boarded here to-day; 900 boxes of white, and 300 boxes of colored. All were sold, ruling price 11/2c

ruling price 11%. Kemptville, Oct. 29.-414 boxes of cheese registered, all colored; 334 boxes sold for

11%. Iroquoia, Oct. 23-620 hoxes of colored, and 60 hoxes of white cheese offered; §5 boxes sold on board at 11%; rest on the street at the same pric. Ottawa, Oct. 23-625 (herese boarded; 257 white and 562 colored. All sold at 11%.

HILLCREST STOCK FARM

(Continued from page 17) granddaughter of "Hengerreid De Kol," one of which ."Pontiac Rag Apple," is the highest priced Holstein cow ever sold,

the highest price Holstein ow ever sold, she bringing som. Pontinc's calves are mostly helfers. The young bulls offered by the Hill. Creet Farm are good individuals, and is-clude the ist, and and far prize calves at East Peterboro Exhibition. Most of them are sired by "Butterboy Calamity." some every Kel and Butterboy Srad. 'Ingrest every of the Sol and and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of the world's of De Kol And, and sire of son of the famous of 'Collamity' Anon-years in succession. Any of the cattle offered are well worth fully any All conquires will be cheer-from Norwood Stations me by appoint-ment. The Hilberts for the sone by Argoint-ment. The Hilberts and the All Brethen, Proprietor.



AYRSHIRES AYRSHIRE BULL FOR SALE

Laleigh Norman - 2006 - white with brown checks calved Sept. 12. 1906. bred lialeigh Normanields, Danvelle, Que Dan lialeigh Norma in the ser port was 900 bas testing 308 per cent. The above animal testing 308 per cent. The above animal weicht. 1500 bill.price very reasonable weicht. 1500 bill.ow, Ellisville, Jone

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Are large producers of milk, testing in butter fat. Young stock for sale. ders booked for caives of 1909, male female. Prices right. Write or call -3-24-10 W. F. STEPHEN, Huntingdon, Que.

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Young bulls, from one week to one year old, large, growthy fellows, from Record of Performance cows, on both sides. Also two young cows, fust freshened. Prices right

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GUNNION ATTORNESS Imported and home bred, are of the choicest breading, of good type and have been selected for production. THREE been selected for production. THREE Wether Hall Good this fail stred by "Nether Hall Good this fail on a geo for sale. Write or come and see. I will chase, Movies Station. Que.

J. W. LOGAN, Howick Station, Que. hone in house.) 0-5-19-10 ('Ph STONEHOUSE STOCK FARM

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Cows, also Bull Calves. HECTOR GORDON

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For OAC, FULSTEIN OULL WALF Born, Dec. 31. Dam's official record at three years old, 486 hs. of milk and 21 hs. of butter. Buil cath, born March 18th, for the second state of the second state for the second state of the second state for the second state of the second state and 20 hs. of butter. Also far sates to Lad. Eff DAVID CAUGHELL, Yarmouth Centre, Ont.



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Young Bulls sired by "Butter Boy Cal-mity" for sale now. Prize winners and ut of producing dams. If in the market or our kind, write or come and visit our erd and learn more about them.

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If you are thinking of buying a choice in you are thinking of buying a choice are the second of the second second second or beauting the second record as 4 year old with 31.60 lbs butter. Write as what you want. We will granamic write as the year of the second second second write second second second second second to c. FLATF & SON Willsrove Ont D. C. FLATT & SON, Millgrove, Ont

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SUNNYDALE

SUNNYDALE OFPERS BYTERS BEYNELD. Calved April 8th, 1999. Ho is a good indi-vidual and well maried. Dam Helena De Kol's De Kol, half skiter to Hengerveld De Kol's De Kol, half skiter to Hengerveld De them with 7 day butter droghers, Bi of them with 7 day butter droghers, Bi of all. Price 810. E56-10 Bioemfeld, Ont.



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19



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Canada. Enough steel, that, to make miles long. Almost

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Stays rain - and - snow - and wet-proof for fully a hundred years. Absolutely fireproofs the top of the building for a hundred years. Protects the building from lightning for a hundred years. Resists the hardest winds that blow for a hundred years. Keeps the building it covers cooler in summer, warmer in winter, for a hundred years. Gathers no moisture, and never sweats on the under side for a hundred years. Needs no painting, no patching, no care nor attention for a hundred years. WHAT MORE CAN YOU ASK OF A ROOF?



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If the Oshawa-shingled roof you put on this year fails— even on the last day of 1935— to make good to the letter the plain promises of our Guaran-tee, there's a new roof for nothing going on that building just as soon as we can get a

just as soon as we can get a man there. Think that over for a min-ute. Think if it isn't a pretty clear evidence of merit in

That is what I call making good with Oshawa shingles. That is what you pay five cents per year per square for. Seems to be worth the

doesn't G. H. Peden

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peting goods; nor things do sell shingles, right here

THEY DO ALL W cut price. Those SAY THEY WIL AND MORE TO

in Canada's roofing trade. But Osha Shingles sell, and keep on selling, for different reason. They make good. Th keep out the wet, year after year, as say they will. They protect buildings fro fire and lightning, as we say they w They make good.

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Some makers of 'metal shing! (ever notice how careful they a to avoid saying steel?) point wit pride to roofs of theirs 25 years service. BUT THEY DON **GUARANTEE** their shingles f 25 years to come. You bu Oshawa Steel Shingles-the or kind that IS guaranteed-up the plain English warranty th if the roof goes back on you the next quarter-century you g a new roof for nothing. You ca read the Guarantee before y decide. Send for it. See if isn't as fair as your own lawye would make it on your behall Isn't that square?

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Send for free book and free sample of the Oshawa Shingh itself. It will interest you t study it. You will see the actua construction. You will see that the Pedlar Improved Lock, o all four edges of the shingle makes it certain that moisture never can get through any Oshawa-shingled roof. You will see how the Pedlar process of galvanizing drives the zine right into the steel so it never can flake off. You will be in no doubt about which roofing after you have studied this shingle Send for it and the book an Guarantee. Send for them now.

